

APPENDIX G. NOISE AND VIBRATION ANALYSIS TECHNICAL MEMORANDUM

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Noise and Vibration Analysis Technical Memorandum

Technical Memorandum No. MDOT – TM 48

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Project Title: I-94 Modernization Project MDOT JN: 122117 Control Section: 82023, 82024, 82025 (I-94); 82111, 82112 (M-10); 82251, 82252 (I-75)

Author:	John Jaeckel, PE
Reviewer:	Ruth Mazur, INCE

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1 Executive Summary

This report evaluates the potential noise impacts of the proposed improvements along I-94 from approximately 1,000 feet east of the I-94/I-96 interchange to 1,000 feet east of the I-94/Conner Avenue interchange, including M-10 from Seward Street to Martin Luther King Jr. Boulevard, and I-75 from East Grand Boulevard to Warren Avenue (I-94 noise and vibration study area) in conformance with corresponding Federal regulations and guidance, and the National Environmental Policy Act (NEPA).

The location of this project is shown in Figure 1.

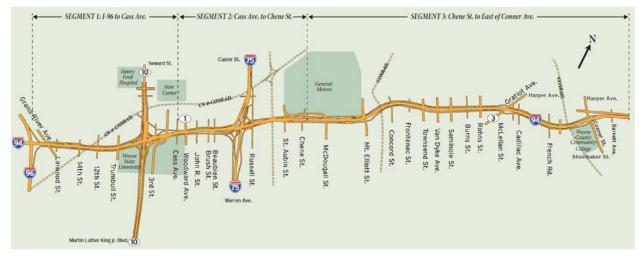


Figure 1. I-94 Study Corridor

The project is being studied as a Type I project because of the addition of a through-lane in both directions.

This report evaluates the potential noise impacts of the proposed improvements of the project in conformance with corresponding Federal regulations and guidance, and the NEPA. The noise analysis presents the existing and future acoustical environment at receptors located in the I-94 noise and vibration study area.

The determination of noise abatement measures and locations complies with the Federal Highway Administration's (FHWA's) Procedures for Abatement of Highway Traffic Noise and Construction Noise as presented in the Code of Federal Regulations, Title 23 Part 772 (23 CFR 722), and the Michigan Department of Transportation (MDOT): *Highway Noise Analysis and Abatement Handbook*, dated July 2011 (Handbook). The Handbook complies with the State Transportation Commission Policy 10136 Noise Abatement, dated July 31, 2003.

Automobiles, trucks and buses do not typically generate enough vibration to be a concern, except under specific situations, such as where there are pavement irregularities adjacent to sensitive locations. Studies to assess the impact of operational traffic induced vibrations have shown that both measured and predicted vibration levels are less than any known criteria for structural damage to buildings. In fact, normal living activities (e.g., closing doors, walking across floors, operating appliances) within a building have been shown to create greater levels of vibration than highway traffic. There are no Federal requirements directed specifically to highway traffic induced vibration. Existing noise level measurements were conducted on May 23, 2018 at 11 representative sites in the project vicinity. Fifteen-minute measurements were taken at each site. Measurement locations are shown in **Appendix A**. Traffic classification counts along the major roadways (I-94, M-10, I-75, and frontage roads) and local cross streets and frontage roads were taken at each site concurrent with the noise measurements. FHWA's Traffic Noise Model version 2.5 (TNM) was used to validate the predicted noise levels through comparison with the measured and predicted noise levels.

TNM was used to model existing (2014) and future (2040) Build worst-case traffic noise levels within the I-94 noise and vibration study area for the Approved Selected Alternative with Modifications (ASAM). **Appendix A** shows the modeled receptors and highlights the receptors along the project corridor that are impacted, that is, they approach or exceed the FHWA Noise Abatement Criteria (NAC).

This analysis modeled 2,643 receptors (or units). Noise levels at 386 receptors would approach or exceed the FHWA NAC or substantially exceed the existing noise level.

Twenty noise barriers have been evaluated for this noise study. The locations of the noise barriers are shown in **Table 1** and in the exhibits in **Appendix A**.

NB 1, NB 3 NB 6, NB 7, NB 11, NB 14, NB 17, NB 18, NB 19, and NB 20 are not acoustically feasible, as they did not achieve a 5 dB(A) reduction at 75 percent of the impacted receptors.

NB 2, NB 5, NB 9, NB 15 and NB 16 meet preliminary feasibility criteria but did not meet the reasonableness criteria as they did not meet the design goal of 10 dB(A) for at least one benefited receptor and at least a 7 dB(A) reduction for 50 percent or more of the benefited receptor sites.

NB 8, NB 10, NB 12, and NB 13 meets preliminary feasibility criteria but did not meet the reasonableness criteria as the estimated cost of these barriers per benefitted receptor would exceed the allowable cost per benefitted receptor (\$46,967)¹.

NB 4 meets preliminary feasibility criteria and reasonableness criteria. The estimated cost of this barrier per benefitted receptor would also meet the allowable cost per benefitted receptor of (\$46,967).

¹Thomas Hanf, MDOT Air Quality & Noise Abatement, email regarding "Re: Noise and Air Quality Guidance – I-375", April 17, 2018.

Noise Barrier ID	Receiver IDs	Feasible ¹	Meets Design Goal ²	Benefited Receptors	Length (ft)	Height (ft)	Square Footage (sq ft)	Barrier Cost (\$45 per sq ft)	Cost per Benefited Receptor	Reasonable
NB 1	B2.1 – B9	No	No	0	1,861	24	44,667	\$2,010,015	NA ³	No
NB 2	114 – 1139	Yes	No	15	1,910	24	45,834	\$2,062,530	NA	No
NB 3	B18 – B43	No	No	0	920	24	22,069	\$993,105	NA	No
NB 4	BB1 – BB4 CC1.1 – CC19	Yes	Yes	20	383	24	9,203	\$414,135	\$20,707	Yes
NB 5	BB21 – BB23 CC22 – CC24	Yes	No	2	544	24	13,061	\$587,745	NA	No
NB 6	F16 – F21 G1.1 – G60	No	No	36	3,904	24	93,707	\$4,216,815	NA	No
NB 7	AA1 – AA73 Z1 – Z4.2	No	No	32	2,064	24	49,536	\$2,229,120	NA	No
NB 8	H14 – H28	Yes	Yes	14	1,078	18 - 24	23,815	\$1,071,675	\$76,548	No
NB 9	162 – 184	Yes	No	1	1,779	24	42,703	\$1,921,635	NA	No
NB 10	K11 – K35	Yes	Yes	3	1,273	18 - 21	25,940	\$1,167,300	\$389,100	No
NB 11	M67 – M120	No	Yes	6	848	24	20,369	\$916,605	NA	No
NB 12	V3 – V31	Yes	Yes	2	931	15 - 24	19,598	\$881,910	\$440,955	No
NB 13	N45 – N55	Yes	Yes	2	992	21	20,827	\$937,215	\$468,608	No
NB 14	T7 – T21	No	No	1	988	24	23,703	\$1,066,635	NA	No
NB 15	N107 – N135	Yes	No	3	516	18 - 24	11,216	\$504,720	NA	No
NB 16	P1 – P24	Yes	No	3	917	9 - 24	18,024	\$811,080	NA	No
NB 17	BB19 DD1 – DD18.14	No	Yes	111	1,871	24	44,881	\$2,019,645	NA	No
NB 18	D33 – D121	No	No	90	2,391	24	57,384	\$2,582,280	NA	No
NB 19	E1 – E86	No	No	0	2,681	24	64,339	\$2,895,255	NA	No
NB 20	G117 – G129	No	No	0	1,929	24	46,299	\$2,083,455	NA	No

Table 1. Noise Barrier Summary

¹ MDOT requires that noise barriers achieve a 5-dB reduction at 75 percent of the impacted receptors. If a barrier cannot achieve this, abatement is considered to not be acoustically feasible.

² The design year attenuation requirement for Michigan is to provide a noise reduction of 10 dB(A) for at least one benefited receptor and at least a 7 dB(A) reduction for 50 percent) or more of the benefited receptor sites.

³ NA – Noise barrier is not feasible or does not meet the design goal.

MDOT's noise policy states that all noise abatement measures determined to be feasible and reasonable shall be incorporated into the transportation improvement project. Based on the study completed, preliminary abatement of noise impacts for the project does not meet the MDOT feasibility and reasonableness factors for the residential units.

2 Purpose of this Report

As part of the I-94 Modernization Project Owners Representative Work Task #1, Subtask 4a Noise and Vibration Analysis, this technical memorandum is intended to reevaluate potential noise impacts of the proposed improvements of the I-94 Modernization Project based on existing and proposed traffic data and engineering designs for the project. The reevaluation is needed to update the noise analysis based on the proposed local road network, changes in land use, the use of FHWA's Traffic Noise Model version 2.5 versus version 2.0, and MDOT's 2011 Handbook. The proposed local road network changes from providing continuous one-way service drives through the corridor as previously analyzed in the approved selected alternative (ASA), to providing complete streets that better accommodate bicycles and pedestrians in the ASAM. This includes changes to provide more locations with complete street bridges over I-94. In addition, several areas of the corridor will retain two-way service drives to facilitate local traffic flow. Changes in land use include reduced residential density in some areas of the corridor while other areas of the corridor have experienced land use changes. This report is part of a Supplemental Environmental Impact Statement (EIS) to an EIS completed in 2004/2005 for modifications to the ASA from that time. This report addresses the ASAM. This report evaluates the I-94 noise and vibration study area in conformance with corresponding Federal regulations and guidance, and the NEPA.

2.1 **Project Description**

The I-94 Modernization Project consists of planned improvements to approximately 6.7 miles of interstate freeway in the city of Detroit, Michigan. These improvements add a travel lane in each direction, modernize system and service interchanges, reconstruct bridges crossing over the freeway, and change existing service drives to maximize efficiencies of connected local travel patterns.

The I-94 noise and vibration study area is shown in **Figure 1**. The Project also includes improvements to the service drives that extend along and outside the east and westbound lanes of I-94, M-10 and I-75 within the project limits. The purpose of the Project is to improve safety, capacity, local connectivity, and condition of the I-94 roadway, service drives, bridges, and interchanges between I-96 and Conner Avenue.

3 Traffic Noise and Vibration Concepts, Policy and Guidelines

3.1 Basic Noise Information

Noise is defined as unwanted sound. Sound is what we hear when there are variations in air pressure. The ear is sensitive to this pressure variation and perceives it as sound. The intensity of these pressure variations causes the ear to discern different levels of loudness. These pressure differences are most commonly measured in decibels.

The decibel (dB) is the unit of measurement for sound. The decibel scale audible to humans spans approximately 140 dB. A level of zero decibels corresponds to the lower limit of audibility, while 140 dB produces a sensation more akin to pain than sound. The decibel scale is a logarithmic representation of the actual sound pressure variations. Therefore, a 26 percent change in the energy level only changes the sound level 1-dB. The human ear would not detect this change except in an acoustical laboratory. A doubling of the energy level would result in a 3-dB increase, which would be barely perceptible in the natural environment. A tripling in energy sound level would result in a clearly noticeable change of 5-dB in the sound level. A change of 10 times the energy level would result in a 10-dB change in the sound level. This would be perceived as a doubling (or halving) of the apparent loudness. **Table 2** provides a comparison of sound level changes with relative loudness.

The human ear has a non-linear sensitivity to noise. To account for this in noise measurements, electronic weighting scales are used to define the relative loudness of different frequencies. The "A" weighting scale is widely used in environmental work because it closely resembles the non-linearity of human hearing. Therefore, the unit of measurement for an A-weighted noise level is dB(A).

Change in L _{eq(1h)} Sound Level Relative Loudness in the Natural Environment	Change in L _{eq(1h)} Sound Level Relative Loudness in the Natural Environment		
+/- 3 dB(A)	Barely Perceptible Change		
+/- 5 dB(A)	Readily Perceptible Change		
+/- 10 dB(A)	Considered Twice or Half as Loud		

Table 2. Logarithmic Nature of Sound

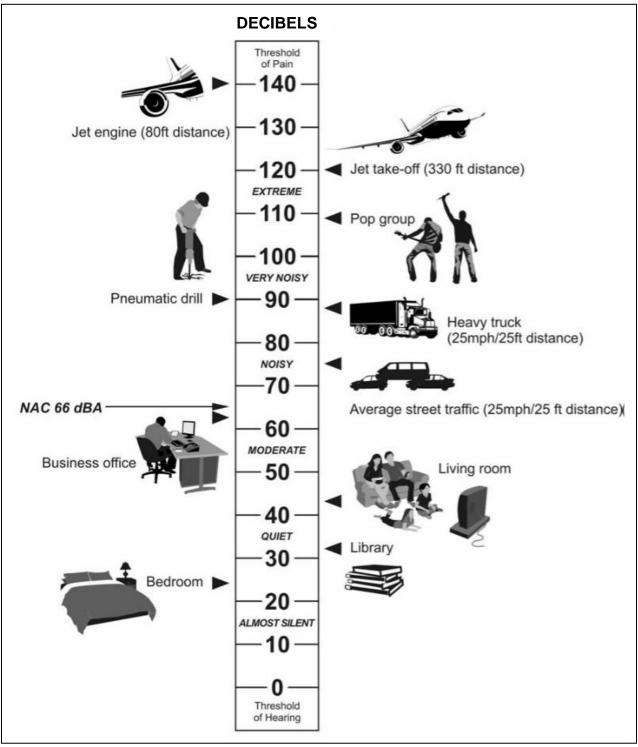
Traffic noise is not constant. It varies as each vehicle passes through a certain location. The timevarying characteristics of environmental noise are analyzed statistically to determine the duration and intensity of noise exposure. In an urban environment, noise is made up of two distinct components. One is ambient or background noise. Wind noise and distant traffic noise make up the ambient acoustical environment surrounding the project. These sounds are not readily recognized but combine to produce a non-irritating ambient sound level. This background sound level varies throughout the day, being lowest at night and highest during the day. The other component of urban noise is intermittent and louder than the background noise. Transportation noise and local industrial noise are examples of this type of noise. It is for these reasons that environmental noise is analyzed statistically.

It is necessary to use a method of measure that will account for the time-varying nature of sound when studying environmental noise. The equivalent sound pressure level (L_{eq}) is defined as the continuous steady sound level that would have the same total A-weighted sound energy as the real fluctuating sound measured over a given period of time. As a result, the three characteristics of noise combine to form a single descriptor (L_{eq} in dB(A)) that helps to evaluate human response

to noise and has been chosen for use in this study. The time-period used to determine noise levels is typically one hour and uses the descriptor $L_{eq(1h)}$.

Traffic noise at a receiver is influenced by the following major factors: distance from the traffic to the receiver, volume of traffic, speed of traffic, vehicle mix, and acoustical shielding. Tire sound levels increase with vehicle speed but also depend upon road surface, vehicle weight, tread design and wear. Change in any of these can vary noise levels. At lower speeds, especially in trucks and buses, the dominant noise source is the engine and related accessories. **Figure 2** provides sound levels of typical noise sources.

Figure 2. Sound Levels of Typical Noise Sources



Adopted from "Environmental Criteria for Road Traffic Noise", Environmental Protection Authority, South Sydney, NSW, May 1999, Page 38.

3.2 Federal Regulations and Guidance

The FHWA's *Procedures for Abatement of Highway Traffic Noise and Construction Noise* is presented in the Code of Federal Regulations, Title 23 Part 772 (23 CFR 772). This regulation, along with other guidance documents written to explain the regulation, sets forth the process for performing a traffic noise analysis. The process includes the following:

- 1) Identification of highway traffic noise impacts;
- 2) Examination of potential abatement measures;
- 3) Gather public input approval for reasonable and feasible abatement measures;
- 4) Incorporation of reasonable and feasible highway traffic noise abatement measures into the highway project;
- 5) Coordination with local officials to provide helpful information on compatible land use planning and control; and
- 6) Identification and incorporation of necessary measures to abate construction noise.

The highway traffic noise impact identification process involves a review of the existing land use activity categories that parallel the highway corridor and determining existing and future noise levels within those areas. Existing land use of developed lands is identified by inspecting aerial photography and performing site reconnaissance. Highway traffic noise analyses are also performed for undeveloped lands that have received a building permit.

After the existing and proposed land uses are established, the model is validated if existing measured highway traffic noise levels and predicted highway traffic noise levels for the existing conditions are within +/- 3 dB(A)². The existing noise environment is determined by gathering noise measurements and concurrent site and traffic information. The FHWA mandates the use of the most recent version of the TNM software be used to construct these models.

The FHWA Noise Abatement Criteria (NAC), which is presented in 23 CFR 772, establishes the NAC for various land uses, and is presented in **Table 3**. A traffic noise impact is defined as a future noise level that approaches or exceeds the NAC; or a future noise level that creates a substantial noise increase over existing noise levels. An approaching noise level is defined as being at least 1 dB(A) less than the noise level value listed in the NAC for Activity Category A through F. The FHWA allows states to define a substantial noise increase as an increase of anywhere between 5 and 15 dB(A).

² Highway Noise Analysis and Abatement Handbook, Michigan Department of Transportation, 2011, page 16.

Activity	Activity Cr	iteria ¹²	Evaluation	Activity Deceription			
Category	L _{eq(h)} ³	L _{10(h)} ⁴	Locator	Activity Description			
A	57	60	Exterior	Lands on which serenity and quiet are of extraordinary significance and serve an important public need and where the preservation of those qualities is essential if the area is to continue to serve its intended purpose.			
В	67	70	Exterior	Residential			
С	67	70	Exterior	Active sport areas, amphitheaters, auditoriums, campgrounds, cemeteries, daycare centers, hospitals, libraries, medical facilities, parks, picnic areas, places of worship, playgrounds, public meeting rooms, public or nonprofit institutional structures, radio studios, recording studios, recreation areas, Section 4(f) sites, schools, television studios, trails, and trail crossings.			
D	52	55	Auditoriums, daycare centers, hospitals, libraries, medical facilities, place Interior worship, public meeting rooms, public or nonprofit institutional structures, radio studios, recording studios, schools, and television studios.				
E ⁵	72	75	Exterior	br Hotels, motels, offices, restaurants/bars, and other developed lands, properties or activities not included in A-D or F.			
F	N/A	N/A	N/A	Agriculture, airports, bus yards, emergency services, industrial, logging, maintenance facilities, manufacturing, mining, rail yards, retail facilities, shipyards, utilities (water resources, water treatment, electrical), and warehousing.			
G	N/A	N/A	N/A	Undeveloped lands that are not permitted.			

Table 3. Noise Abatement Criteria (NAC)

¹ MDOT defines a noise impact as a 10 dB(A) increase between the existing noise level to the design year predicted noise level, OR a predicted design year noise level that is 1 dB(A) less than the levels shown in Table 3.

² Either $L_{eq(h)}$ or $L_{10(h)}$ (but not both) may be used on a project. MDOT uses $L_{eq(h)}$. The $L_{eq(h)}$ and $L_{10(h)}$ Activity Criteria values are for impact determination only and are not design standards for noise abatement measures.

 ${}^{3}L_{eq}$ is the equivalent steady-state sound level which in a stated period of time contains the same acoustic energy as the time-varying sound level during the same time period, with $L_{eq(b)}$ being the hourly value of L_{eq} .

⁴ L₁₀ is the sound level that is exceeded 10 percent of the time (90th percentile) for the period under consideration, with L₁₀ being the hourly value of L₁₀.

⁵ Includes undeveloped lands permitted for this activity category

Source: Highway Noise Analysis and Abatement Handbook, Michigan Department of Transportation, 2011.

After traffic noise impacts were identified, potential abatement alternatives were examined. The following abatement alternatives, which are listed in 23 CFR 772.15(c) are permitted and can be evaluated where applicable:

- 1) Construction of noise barriers including acquisition of property rights, either within or outside the highway right-of-way;
- 2) Traffic management measures;
- 3) Alteration of horizontal and vertical alignments;
- 4) Acquisition of real property or interests therein to serve as a buffer zone to preempt development; and
- 5) Noise insulation of Activity Category D land use activities listed in **Table 3**.

At a minimum, state highway agencies are required to consider noise abatement in the form of noise barriers.

FHWA defines feasible highway traffic noise abatement as objective engineering considerations (e.g., can a barrier be built given the topography of the location; can a substantial noise reduction be achieved given certain access, drainage, safety, or maintenance requirements; are other noise

sources present in the area, etc.). An abatement measure must achieve a noise reduction of at least five dB(A) to be considered feasible, according 23 CFR 772.13 (d)(1)(i). MDOT's feasibility criteria are provided in **Section 5.1** of this document.

The FHWA lists three required reasonableness factors when considering noise barriers: cost effectiveness; viewpoints of benefitting receptors; and achievement of noise reduction design goals. For reasonableness, 23 CFR 772.13 (d)(2)(iii) requires state DOTs to define design year reduction goals somewhere between seven and 10 dB(A). FHWA lists optional reasonableness factors that can be added to but not overrule the required reasonableness factors.

3.3 State Rules and Procedures

The Handbook is the State's tool for implementing 23 CFR 772. The Handbook expands on 23 CFR 772 by refining definitions and establishing milestones within the design phase for the completion of noise impact analysis and mitigation development.

The Handbook includes the following definitions:

Noise Impact: A substantial noise increase or a predicted design year noise level that is one dB(A) less, equal to, or greater than the NAC level.

Substantial Noise Increase: A 10 dB(A) or greater increase between the existing noise level and the design year predicted noise level.

Feasible Noise Barrier: A barrier that has no construction impediments, meets safety requirements for the traveling public, and provides at least five dB(A) noise reduction at 75 percent of the impacted receptors.

Reasonable Noise Barrier: A barrier that is cost effective, favorable to the majority of benefited receptors, and achieves noise reduction design goals by meeting or exceeding the reasonableness factor.

Cost Effective Noise Barrier: A noise barrier analyzed for environmental clearance with a preliminary construction cost that is not more than three percent above the allowable cost per benefited receptor unit (CPBU) of \$46,967 (year 2018), assuming a \$45.00 per square foot noise barrier construction cost.

Benefited Receptor: A receptor that receives a five dB(A) or greater traffic noise reduction as a result of a proposed noise barrier.

Design Year Reduction Goal: Reduce design year traffic noise by 10 dB(A) for at least one benefited receptor and provide at least a seven dB(A) reduction for 50 percent or more of the benefited receptor sites.

Permitted Development: Any presently undeveloped lands that have received a building permit from the local township or city.

3.4 Highway Traffic Induced Vibration

Automobiles, trucks and buses do not typically generate enough vibration to be a concern, except under specific situations, such as where there are pavement irregularities adjacent to sensitive locations. Studies to assess the impact of operational traffic induced vibrations have shown that both measured and predicted vibration levels are less than any known criteria for structural damage to buildings. In fact, normal living activities (e.g., closing doors, walking across floors, operating appliances) within a building have been shown to create greater levels of vibration than highway traffic. There are no Federal requirements directed specifically to highway traffic induced vibration.

4 Noise Analysis

4.1 FHWA Traffic Noise Model (TNM)

TNM version 2.5 is FHWA's "computer program for highway traffic noise prediction and analysis."³ The following parameters are used in this model to calculate an hourly $L_{eq(1h)}$ at a specific receiver location:

- Distance between roadway and receiver
- Relative elevations of roadway and receiver
- Hourly traffic volume in light-duty (two axles, four tires), medium-duty (two axles, six tires), and heavy-duty (three or more axles) vehicles
- Vehicle speed
- Ground absorption
- Topographic features, including retaining walls and berms

Highway noise sources have been divided into five types of vehicles; automobiles, medium trucks, heavy trucks, Buses and Motorcycles. Each vehicle type is defined as follows⁴:

- Automobiles all vehicles with two axles and four tires, includes passenger vehicles and light trucks, less than 10,000 pounds
- Medium trucks all vehicles having two axles and six tires, vehicle weight between 10,000 and 26,000 pounds
- Heavy trucks all vehicles having three or more axles, vehicle weight greater than 26,000 pounds
- Buses all vehicles designed to carry more than nine passengers
- Motorcycles all vehicles with two or three tires and an open-air driver/passenger compartment

Noise levels produced by highway vehicles can be attributed to three major categories:

- Running gear and accessories (tires, drive train, fan and other auxiliary equipment)
- Engine (intake and exhaust noise, radiation from engine casing)
- Aerodynamic and body noise

4.2 Analysis

4.2.1 Land Use and Field Measurement Levels

The I-94 noise study area includes residential, day care center, hospital, places of worship, school, picnic area, park, public and nonprofit institutional structure, active sport area, playground, recording studio, restaurant, office, motel, retail, maintenance, and industrial areas. The criteria stated in **Table 3** determines if the proposed project will produce noise levels that approach or exceed the NAC throughout the corridor.

The project corridor was divided into common noise environments (CNE) to facilitate the analysis of highway noise of areas of like land uses. The CNE boundaries are identified in **Table 4** and illustrated in **Appendix A**.

³ "FHWA Traffic Noise Model®, Version 1.0 Users Guide", Report Documentation Page.

⁴ G.S. Anderson, C.S.Y. Lee, G.G. Fleming and C. Menge, "FHWA Traffic Noise Model[®], Version 1.0 User's Guide", Federal Highway Administration, January 1998, p.60.

Table 4. Project Area	Common N	Noise Environments
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CNE	Site Description
А	Industrial uses bounded by I-94 on the north, Merrick Street on the south, Grand River Avenue on the east and I-96 on the west.
В	CNE located south of I-94 between Grand River Avenue and Trumbull Street, north of Merrick Street. The area is primarily residential with pockets of industrial along 14th Street, Rosa Parks Boulevard and Trumbull Avenue. The area is also bisected by a railroad corridor.
С	Located in the south quadrant of the I-94 and M-10 extending from Trumbull Avenue to Warren Avenue. The CNE contains Wayne State University (<i>school</i>) and is the location of their athletic facilities including Adams Field, baseball facilities, tennis courts and indoor sporting building.
D	Residential uses along the west side of M-10 from Warren Avenue to Noble Street with Miracles Boulevard to the west.
E	Extends along the eastern side of M-10 from Peterboro Street to Warren Avenue. The area is a mix of <i>residential</i> and Wayne State University buildings (<i>school</i>), which are located along Warren Avenue.
F	Wayne State University (<i>school</i>) uses located in the east quadrant of the I-94 and M-10 from Warren Avenue to just east of Woodward Avenue and Anthony Wayne Drive and Palmer Street to the west and south. A small pocket of <i>retail</i> uses surrounds Woodward Avenue.
G	<i>Residential</i> area bounded by the I-94 and I-75 interchange from just east of Woodward Avenue to south of Warren Avenue and Palmer Street.
Н	Area with <i>industrial</i> uses bounded by I-94/I-75 Interchange, Warren Avenue, Chene Street, Medbury Street and Russell Street.
l	Residential area located from Chene Street to Mt Elliott Street between I-94 to just south of Medbury Street.
J	Area of <i>industrial</i> uses located along I-94 between Mt Elliot Street and Concord Street extending 500 feet from the frontage road.
К	Residential area located from Concord Avenue to Townsend Street along I-94 to the north and approximately Hyde Street to the south.
L	Charles F Kettering School located south of I-94, between Townsend Street and Van Dyke Street.
М	Residential area located south of I-94 from Van Dyke Street and Gratiot Avenue with Lambert Street to the south. Retail uses located along Gratiot Avenue.
Ν	Residential area bounded by I-94, Gratiot Avenue, Shoemaker Street and the railroad corridor near Fairview Street.
0	Mixed use area containing <i>industrial</i> , Wayne County Community College (<i>school</i>) and <i>retail</i> uses located along the I-94 and Conner Avenue interchange from the railroad corridor near Fairview Street to Shoemaker Street.
Р	Residential area in the southwest corner of the I-94 and Conner Avenue interchange extending from Chandler Park Drive to Norcross Street with Hern Street to the south.
R	Retail uses along Harper Avenue and Conner Avenue with residential uses behind along side streets. Extends from Annsbury Avenue to Conner Avenue with Evanston Street to the north.
S	Mixed use area containing <i>industrial</i> and <i>residential</i> extending from Conner Avenue to Lemay Street along I-94 just south of Harper Avenue.
Т	Residential area located north of I-94 between Lemay Street to Hurlbut Street just south of Harper Avenue.
U	Retail area surrounding the I-94/Gratiot Avenue interchange from Hurlbut Street to approximately Raymond Avenue and extending north to Peter Hunt Street.
V	Residential area located between I-94 and Harper Avenue extending from Raymond Avenue to just east of Van Dyke Avenue.
W	Retail area surrounding Van Dyke Avenue between Harper Avenue and I-94.
Х	Residential area north of I-94 between Baldwin Street and Sherwood Street with Strong Street to the north.
Y	Industrial area which includes GM Detroit-Hamtramck Assembly Plant. Located along 500' of frontage on north side I-94 from Sherwood Street west to I-75.
Z	Industrial area northwest of I-94/I-75 interchange extending from just north of General Motors Boulevard south to Beaubien Street.
AA	Residential uses located between I-94, Beaubien Street and Woodward Avenue to just north of Harper Avenue. Small pocket of retail uses located at Woodward Avenue.

CNE	Site Description
BB	Mixed use area that contains <i>office</i> , <i>retail</i> , <i>school</i> and <i>industrial</i> uses along north side of I-94 from Woodward Avenue and continuing north along M-10 to Lothrop Street/Scotten Avenue.
CC	Residential area bounded by I-94, 3rd Avenue, Holden Street and M-10/John C Lodge Freeway.
DD	Residential area north of Lothrop Street/Scotten Avenue continuing 200' north of Bethune Avenue along M-10/John C Lodge Freeway.
EE	Henry Ford Hospital located west of M-10 between Bethune Avenue and Grand Boulevard.
FF	Industrial area extending 500' west of M-10 from Grand Boulevard south to Elijah McCoy Drive.
GG	Residential area bounded by I-94, M-10, Elijah McCoy Drive and Trumbull Avenue.
HH	Industrial uses north of I-94 between Trumbull Avenue, 14th Street and Stanley Street
II	Residential area extending west from 14th Street to Grand River Avenue between I-94 and Stanley Street.

Existing noise level measurements were conducted on May 23, 2018 at 11 representative sites in the project corridor. A 15-minute measurement was taken at each site. The measurements were made in accordance with MDOT guidelines using an integrating sound level analyzer meeting ANSI and IEC Type 1 specifications. Sound level analyzer calibration certification documentation is provided in **Appendix B**. Traffic classification counts were taken concurrently with the noise measurements. The locations of the field measurement sites are presented in **Appendix A**. The data collected at the 11 sites are presented in **Table 5**.

Field								Traffic ¹						
Field Site #	Site Description	Date	Start Time	Duration	Direction	Auto	Med.	Heavy Truck	Buses	MC ²	Speed mph	Noise Level, dB(A) L _{eq(1h)}		
					W. Edsel Ford Service Dr. (westbound)	6	0	0	0	0	30			
1	At the right-of-way fence, north of I-94 and south of Edsel Ford Service Dr., between 15 th St. and 16 th St.		8:27 am	15 min	WB I-94 off ramp to Linwood St.	8	0	0	0	0	35	75.2		
					EB I-94	955	35	112	6	1	45			
					WB I-94	1099	43	99	5	2	55			
	At the right-of-way fence, west of M-10 and east of John C Lodge Service Dr.,		0.50	45 1	John C Lodge Service Dr. (southbound)	23	0	0	0	0	30			
2	between Forest Ave. and Martin Luther	5/23/18	8:58 am	15 min	NB M-10	457	6	13	11	0	55	72.7		
	King Jr Blvd.				SB M-10	965	3	15	1	1	55			
	West of M-10 and north of I-94, at the				SB M-10 off ramp to WB I- 94	169	4	29	1	0	40			
3	right-of-way fence east of John C Lodge Service Dr. cul-de-sac.	5/23/18	9:27 am	15 min	EB I-94	815	53	120	4	4	55	68.3		
					WB I-94	1062	36	125	3	0	55			
	Residence, 91 feet north of I-94 and 65				2 nd Ave	29	2	0	2	0	30			
4	feet east of 2 nd Ave. at the southern edge		9:58 am	15 min	EB I-94	788	33	148	2	0	40	69.1		
	of the residence side walk.				WB I-94	1020	27	135	1	4	55			
	At the right-of-way fence, north of I-94 and		10.20		E Edsel Ford Service Dr. (westbound)	91	0	5	0	0	25			
5	south of Edsel Ford Service Dr., between Brush St. and John R St.		10:28 am	15 min	EB I-94	599	8	43	1	0	55	71.0		
					WB I-94	528	21	52	2	1	55	55		
					I-75 Frontage Rd. (southbound)	40	0	5	0	0	35			
	At the right-of-way fence, west of I-75 and		10:53		SB I-75 off ramp to Warren Ave.	54	0	2	0	0	35			
6	east of I-75 Frontage Rd., approximately 472 feet south of Ferry St.	5/23/18	am	15 min	SB on ramp from I-94 ramps to SB I-75	213	0	12	2	1	55	69.2		
					NB I-75	934	41	86	7	3	55	69.2		
					SB I-75	783	23	86	0	2	55			
					E Edsel Ford Service Dr. (eastbound)	39	0	8	0	0	30			
7	At the right-of-way fence, south of I-94 and north of Edsel Ford Service Dr., approximately 500 feet west of Grand	5/22/10	11:24 am	15 min	EB E Edsel Ford Service Dr. on ramp to EB I-94	8	0	5	0	0	55	78.4		
	Blvd.				EB I-94	829	26	119	2	2	55			
					WB I-94	1012	32	97	5	3	55			
	At the right-of-way fence, south of I-94 and north of Edsel Ford Service Dr.,		12:00		E Edsel Ford Service Dr. (eastbound)	11	0	0	0	0	30			
8	approximately 250 feet east of Concord	5/23/18	pm	15 min	EB I-94	855	20	80	1	3	55	77.1		
	Ave.				WB I-94	981	26	64	5	3	55			
	At the right-of-way fence, north of I-94 and		12:25		E Edsel Ford Service Dr. (westbound)	9	0	0	0	0	30			
9	south of Edsel ford service Dr., approximately 427 feet east of Burns Ave.		pm	15 min	EB I-94	796	14	110	1	0	55	68.9		
					WB I-94	1090	32	84	6	6	55			

Table 5. Measured Existing Noise Levels

						Tra	affic ¹					Noise
Field Site #	Site Description	Date	Start Time	Duration	Direction	Auto	Med. Truck	Heavy Truck	Buses	MC ²	Speed mph	Level, dB(A) L _{eq(1h)}
	At the right-of-way fence, south of I-94 and porth of Edsel Ford Service Dr		12:48		E Edsel Ford Service Dr. (eastbound)	1	0	0	0	0	30	
10	and north of Edsel Ford Service Dr., approximately 687 feet east of Cadillac	5/23/18	5/23/18 pm	' 15 min	EB I-94	859	5	101	3	1	55	76.9
	Ave.				WB I-94	916	22	92	4	0	55	
	At the right-of-way fence, south of I-94 and porth of Edsel Ford Service Dr				E Edsel Ford Service Dr. (eastbound)	4	0	1	0	0	30	
11	and north of Edsel Ford Service Dr., approximately 555 feet east of Barrett	5/23/18	5/23/18 1:15 pm	15 min	EB I-94	891	1	76	13	4	55	82.6
	Ave.				WB I-94	929	25	62	6	0	55	

1) Autos defined as 2-axle, 4-tire; medium trucks as 2-axle, 6-tire; heavy trucks as 3 or more axles; buses as vehicles designed to carry more than 9 passengers; and motorcycles as vehicles with two or three axles.

2) MC - Motorcycle

Source: HNTB Corporation, May 23, 2018

4.2.2 Field Measurements versus Modeled Noise Levels

TNM was used to validate that the existing measured highway traffic noise levels and predicted highway traffic noise levels for the existing conditions are within +/- 3 dB(A). Traffic was counted and classified concurrently during the noise measurement by vehicle type: cars, medium trucks, heavy trucks, and buses. Comparing the modeled noise levels to the measured noise levels validates the TNM model for use on the specific project. Traffic counts were taken concurrently with the noise measurements at all the sites and used in the model. All the modeled data compared within three dB(A) of the measured levels, which satisfies the MDOT requirement for validating noise measurements. The site by site comparison is presented in **Table 6**.

Field Site	Appendix A Map Page#		Level, L _{eq(1h)}	Difference in Noise Level, dB(A) L _{eq(1h)}
JIE	Map Page#	Measured	Modeled	(Modeled Minus Measured)
FS-1	1	75.2	77.2	2.0
FS-2	15	72.7	74.3	1.6
FS-3	3	68.3	70.6	2.3
FS-4	3	69.1	71.1	2.0
FS-5	4	71.0	73.3	2.3
FS-6	17	69.2	70.6	1.4
FS-7	6	78.4	77.1	-1.3
FS-8	8	77.1	77.7	0.6
FS-9	9	68.9	71.9	3.0
FS-10	10	76.9	75.4	-1.5
FS-11	12	82.6	80.2	-2.4

 Table 6. Comparison of Measured and Modeled Noise Levels

4.2.3 Traffic Noise Levels and Noise Impact Analysis

FHWA's TNM version 2.5 was used to model existing (2014) and design year (2040) worst hourly traffic noise levels within the I-94 noise and vibration study area.

Modeled receptors were placed in accordance with FHWA requirements in areas with evidence of frequent human use. This area is typically located between the highway and any structure, such as a residence. MDOT considers this as the back-yard area within 35 feet from the back of a residence. Balconies in apartment buildings are included when the balcony faces the highway and there are no ground-level areas of frequent human use between the highway and the building. Second floor balconies are included in noise impact and abatement analyses. Balconies on floors higher than the second floor may be included depending on their relationship to the level of the roadway.

FHWA's Recommended Best Practices for the Use of the FHWA Traffic Noise Model (TNM) states, 'The loudest hour of the day is dependent upon traffic conditions – vehicle volume, operating speed, and number of trucks – that combine to produce the highest hourly noise levels adjacent to the highway corridor. According to FHWA guidance, the "worst hourly traffic noise impact" usually occurs at a time when truck volumes and vehicle speeds are the greatest, typically when traffic is free flowing and at or near LOS C conditions. Based on this guidance, the use of traffic data that are based on LOS was the preferred approach.'

Traffic engineers determined that based on existing counts and speed data the time period from 9:00 a.m. to 10:00 a.m. most closely represented LOS C conditions. The design year volumes were developed with the traffic microsimulation model, *Paramics*, for the same time.

As shown in **Appendix A**, 1,667 representative noise receivers representing 2,643 receptors were modeled. Receivers, defined as single points in the noise model, represent noise receptors that are being analyzed. One receiver can represent multiple receptors in the noise analysis.

4.3 Impact Assessment

A traffic noise impact is defined as a future noise level that approaches or exceeds the FHWA NAC; or a future noise level that creates a substantial noise increase over existing noise levels. MDOT identifies a significant noise impact as a 10 dB(A) increase between the existing and predicted design year sound levels, or a modeled noise level 1 dB(A) less than the NAC standard. There are 2,643 modeled receptors for the future Build Alternative. The existing and design year noise levels table of modeled sites are presented in **Appendix C**.

4.3.1 Future Build

Predicted future design year (2040) noise levels adjacent to the future Build Alternative would approach or exceed the NAC at 189 receiver locations representing 386 receptors (382 residential, one park, one public or nonprofit institutional structure, one active sport area and one playground receptors). The future noise levels at these 386 impacted receptors would range from 66.0 to 75.2 dB(A) $L_{eq(h)}$.

Changes in L_{eq} noise levels under the future Build conditions will range from -9.0 to 9.7 dB(A) compared to existing conditions. No future noise levels would substantially exceed existing noise levels.

5 Noise Abatement Measures

5.1 MDOT Abatement Guidance

The Handbook has established the criteria for determining where noise abatement must be provided. $^{\rm 5}$

The policy is summarized as follows:

- Where adverse noise impacts are expected to occur, noise abatement will be considered and will be implemented if found feasible and reasonable for existing developments, and future developments that were approved before the date of public knowledge of the project. Approved means that a building permit has been received. After the date of public knowledge, MDOT is not responsible for providing noise abatement for new developments. The date of the clearance of the Categorical Exclusion will be the date of public knowledge. The provision of noise abatement for new developments becomes the responsibility of local governments and private developers.
- All sites will be considered; however, it is generally known that commercial and industrial sites prefer that there be no interference with the view to their establishments. Therefore, when commercial and residential sites expected to convert to a commercial or industrial land use (e.g., some of the residential units have converted to commercial/industrial, or the area has been rezoned commercial) are found to be reasonable and feasible, they will be asked if they want noise abatement. If they do not want it, it will not be provided.
- Feasible This refers to engineering considerations such as: constructability of a noise barrier on the existing topography; achievement of substantial noise reductions; the presence of other noise sources in the area; and the ability to maintain access, drainage, safety, utilities in the area. While every reasonable effort should be made to obtain a substantial noise reduction, a noise abatement measure is not feasible if it cannot achieve at least a 5 dB(A) noise reduction for 75 percent of impacted receivers during design year traffic noise.
- Reasonable Noise mitigation will be considered reasonable if:
 - During the environmental clearance phase, the preliminary cost per benefiting unit is less than three percent above allowable per benefitting unit level (\$46,967 in 2018 dollars);
 - MDOT receives generally positive comments from benefiting receptors during the environmental clearance phase; and
 - The noise barrier provides a design year traffic noise reduction of 10 dB(A) for at least one benefitted unit and at least a seven dB(A) for 50 percent or more of the benefitted units.

Highway traffic noise abatement alternatives, which are listed in 23 CFR 772.15(c) include:

- 1) Construction of noise barriers including acquisition of property rights, either within or outside the highway right-of-way;
- 2) Traffic management measures;

⁵ The Handbook and other MDOT resources can be found at <u>https://www.michigan.gov/mdot/0,4616,7-151-9621_11041_25846---,00.html</u>.

- 3) Alteration of horizontal and vertical alignments;
- Acquisition of real property or interests therein to serve as a buffer zone to preempt development;
- 5) Noise insulation of Activity Category D land use facilities listed in **Table 3**.

Upon review of the listed abatement alternatives, it has been determined that:

- Reductions of speed limits, although acoustically beneficial, are seldom practical unless the design speed of the proposed roadway is also reduced;
- Restriction or prohibition of trucks is extremely undesirable;
- Design criteria, project limits, and the existing alignment and land use preclude substantial horizontal and vertical alignment shifts that could potentially produce noticeable changes in the projected acoustical environment;
- Cost restrictions typically prohibit property acquisition; and
- The construction of noise berms is neither feasible nor reasonable because of the amount of space that would be required.

Therefore, the construction of noise barriers within the existing right-of-way was the only mitigation measure that received in-depth evaluation.

5.2 Abatement Analysis

Abatement analysis was completed for twenty noise barriers. At a minimum, the Handbook requires that noise barriers be analyzed as a noise abatement measure. To satisfy this requirement, a noise barrier has been evaluated for each of the CNE areas with impacted noise receptors as a part of this noise study. The locations of the noise barriers evaluated are mapped in **Appendix A**. The impact analysis results per receiver are found in **Appendix C** and the abatement analysis results per receiver are found in **Appendix D**.

Based on the future design year noise levels, twenty noise barriers were modeled:

- Noise Barrier 1 (NB 1) On the south side of I-94 between Grand River Avenue and 14th Street, designed to mitigate the noise impact for residences along the East I-94 Service Drive and Linwood Avenue. (Appendix A page 1)
- Noise Barrier 2 (NB 2) On the north side of I-94 between Grand River Avenue and 14th Street, designed to mitigate the noise impact for residences along the West I-94 Service Drive and Hudson Street. (Appendix A page 1)
- Noise Barrier 3 (NB 3) On the south side of I-94 between the Canadian National/Consolidated Rail Railroad and Trumbull Avenue, designed to mitigate the noise impact for residences along Hecla Street and Avery Street. (Appendix A page 2)
- Noise Barrier 4 (NB 4) On the north side of I-94 off ramp to NB M-10 between 3rd Avenue and Holden Street, designed to mitigate the noise impact for residences along 3rd Avenue and 4th Street. (Appendix A page 3)
- Noise Barrier 5 (NB 5) On the north side of I-94 between 3rd Avenue and Cass Street, designed to mitigate the noise impact for residences and motel along Palmer along 2nd Avenue. (Appendix A page 3)
- Noise Barrier 6 (NB 6) On the south side of I-94 between Woodward Avenue and the I-94/I-75 interchange, designed to mitigate residences along Hendrie Street and St. Antoinette St. (Appendix A page 4)
- Noise Barrier 7 (NB 7) On the north side of I-94 between John R Street and the I-94/I-75 interchange, designed to mitigate residences along East Edsel Ford Service Drive. (Appendix A page 4)

- Noise Barrier 8 (NB 8) On the south side of I-94 between St. Aubin Street and Chene Street, designed to mitigate residences along East Edsel Ford Service Drive and Dubois Street. (Appendix A page 6)
- Noise Barrier 9 (NB 9) On the south side of I-94 between Elmwood Street and Mount Elliott Street, designed to mitigate a residence along East Edsel Ford Service Drive. (Appendix A page 7)
- Noise Barrier 10 (NB 10) On the south side of I-94 between Concord Avenue and Sheridan Street, designed to mitigate a residence along East Edsel Ford Service Drive. (Appendix A page 8)
- Noise Barrier 11 (NB 11) On the south side of I-94 between Seneca Street and Rohns Street, designed to mitigate residences along Fischer Street and Rohns Street. (Appendix A page 9)
- Noise Barrier 12 (NB 12) On the north side of I-94 between Maxwell Street and Iroquois Street, designed to mitigate a residence along East Edsel Ford Service Drive and Seminole Street. (Appendix A page 9)
- Noise Barrier 13 (NB 13) On the south side of I-94 between Cadillac Avenue and Garland Street, designed to mitigate a residence along Hurlbut Street. (Appendix A page 10)
- Noise Barrier 14 (NB 14) On the north side of I-94 between Bewick Street and Harding Street, designed to mitigate a residence along Saint Clair Street and East Edsel Ford Service Drive. (Appendix A page 11)
- Noise Barrier 15 (NB 15) On the south side of I-94 between Lemay Street and just east of Springfield Street, designed to mitigate residences along Springfield Street. (Appendix A page 11)
- Noise Barrier 16 (NB 16) On the south side of I-94 between Conner Avenue and Leidich Street, designed to mitigate residences along Gunston Street and Malcolm Street. (Appendix A page 12)
- Noise Barrier 17 (NB 17) On the east side of M-10 between Grand Boulevard and Pallister Street, designed to mitigate residences along Grand Boulevard, North M-10 Service Drive, and Bethune Street. (Appendix A page 13)
- Noise Barrier 18 (NB 18) On the west side of M-10, south of I-94, between Forest Street and Marvin Gaye Street, designed to mitigate residences along southbound M-10 Service Drive, Canfield Street, Four Tops Street, Temptations Street, and Alexandrine Street. (Appendix A page 15)
- Noise Barrier 19 (NB 19) On the east side of M-10, south of I-94, between Forest Street and Martin Luther King Jr. Drive, designed to mitigate residences along Willis Street, Calumet Street, and northbound M-10 Service Drive. (Appendix A page 15)
- Noise Barrier 20 (NB 20) On the west side of I-75, south of I-94, between Ferry Street and Warren Avenue, designed to mitigate residences along Grand Boulevard, southbound I-75 Service Drive, and Bethune Street. (Appendix A page 17)

There are several additional scattered receptors that approach or exceed the NAC. Noise barriers were not analyzed for these receptors for the following reasons:

- In CNE D, along southbound M-10, south of I-94, there is a residential complex with receptors facing M-10 that approach or exceed the NAC. Due to sight line requirements along the South M-10 Service Drive, the off-ramp from southbound M-10 to the Service Drive and the Forest Avenue bridge over M-10, it was not feasible to build an effective noise barrier in this area.
- In CNE E, along northbound M-10, south of I-94, there is a residential complex with receptors facing M-10 that approach or exceed the NAC. Due to sight line requirements

along the North M-10 Service Drive, the on-ramp from the Service Drive to southbound M-10, and the Forest Avenue bridge over M-10 it was not feasible to build an effective noise barrier in this area.

 In CNE M, along eastbound I-94, there is one residential receptor east of Rohns Street along the East Edsel Ford Service Drive that approaches or exceeds the NAC. Due to sight line requirements along the East Edsel Ford Service Drive for the Rohns Street vehicular bridge over I-94 it was not feasible to build an effective noise barrier in this area.

The results of each evaluated barrier, including future $L_{eq(1h)}$ noise levels without and with a barrier, barrier length and height, and the noise reduction provided by the barrier are presented in **Table 7**. Whether the barrier meets the design goal, total estimated cost (based on \$45.00 per square foot), the number of benefited receivers (i.e. residential, commercial, or equivalent), the cost per benefited receiver, feasibility determination, and reasonableness determination for each of the barriers is presented in **Table 8**

NB 1, NB 3, NB 6, NB 7, NB 11, NB 14, NB 17, NB 18, NB 19, and NB 20 are not acoustically feasible, as they did not achieve a 5 dB(A) reduction at 75 percent of the impacted receptors.

NB 2, NB 5, NB 9, NB 15 and NB 16 meet preliminary feasibility criteria but did not meet the reasonableness criteria as they did not meet the design goal of 10 dB(A) for at least one benefited receptor and at least a 7 dB(A) reduction for 50 percent or more of the benefited receptor sites.

NB 8, NB 10, NB 12, and NB 13 meets preliminary feasibility criteria but did not meet the reasonableness criteria as the estimated cost of these barriers per benefitted receptor would exceed the allowable cost per benefitted receptor (\$46,967 in 2018 dollars).

NB 4 meets preliminary feasibility criteria and reasonableness criteria. The estimated cost of this barrier per benefitted receptor would also meet the allowable cost per benefitted receptor of (\$46,967 in 2018 dollars).

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Noise Barrier	Figure Number	Existing Noise	•	uture Noise s dB(A)	Noise Reduction	Barrier Characteristics				
ID	Figure Number	Levels dB(A)	w/o Barrier	With Barrier	dB(A)	Square Footage	Length (ft)	Height (ft)		
NB 1	4.2	57.0 - 74.4	57.4 – 72.5	54.1 – 68.2	3.0 – 4.3	44,667	1,861	24		
NB 2	4.2	49.0 - 71.8	48.8 - 73.3	47.2 – 67.7	0.0 – 9.1	45,834	1,910	24		
NB 3	4.3	49.2 - 71.9	49.3 - 68.9	46.0 - 65.9	0.6 – 4.8	22,069	920	24		
NB 4	4.4	47.3 - 71.7	47.2 – 70.6	46.0 - 66.3	0.0 – 12.1	9,203	383	24		
NB 5	4.4	48.6 - 66.6	45.9 – 72.6	43.8 - 65.1	0.6 – 7.5	13,061	544	24		
NB 6	4.5	42.9 - 65.9	42.9 - 69.7	56.4 - 61.6	0.1 – 9.3	93,707	3,904	24		
NB 7	4.5	42.4 - 74.2	44.0 – 75.2	42.0 – 71.3	0.6 – 10.6	49,536	2,064	24		
NB 8	4.7	61.2 – 74.2	58.2 – 72.8	53.4 - 65.7	1.9 – 11.6	23,815	1,078	18 – 24		
NB 9	4.8	43.5 - 69.4	43.1 - 66.4	40.2 - 62.0	0.4 – 5.8	42,703	1,779	24		
NB 10	4.9	50.2 - 73.9	48.9 - 69.9	46.3 - 60.1	2.4 – 10.7	25,940	1,273	18 - 21		
NB 11	4.10	49.2 - 74.4	48.4 - 74.0	44.7 – 73.9	0.0 – 11.3	20,369	848	24		
NB 12	4.10	49.4 - 71.6	49.1 – 67.7	48.5 - 58.9	0.0 – 10.0	19,598	931	15 – 24		
NB 13	4.11	54.3 - 69.9	53.5 – 69.0	51.4 – 58.8	2.0 – 10.2	20,827	992	21		
NB 14	4.12	60.3 - 68.2	59.8 - 66.1	56.3 - 61.6	1.5 – 5.0	23,703	988	24		
NB 15	4.12	53.4 - 67.7	52.0 - 68.9	51.0 - 63.1	0.2 – 7.7	11,216	516	18 – 24		
NB 16	4.13	56.7 - 66.0	53.5 – 67.2	52.8 - 60.9	0.7 – 9.8	18,024	917	9 – 24		
NB 17	4.14	50.0 - 73.1	49.9 - 72.9	45.6 – 71.6	0.0 - 10.4	44,881	1,871	24		
NB 18	4.16	37.8 - 74.3	38.5 – 73.0	35.6 – 70.2	0.0 – 13.0	57,384	2,391	24		
NB 19	4.16	42.3 - 74.2	39.4 – 73.2	37.3 – 73.1	0.0 – 4.0	64,339	2,681	24		
NB 20	4.18	48.4 - 71.4	50.3 - 70.9	50.2 - 70.8	0.0 – 4.1	46,299	1,929	24		

Table 7. Evaluated Noise Barriers

	#		Numbe	er of Atter	nuated Lo	cations					R
	of Impacted Prop	≥ 5 dB(A		dB(A)		≥ 7 dB(A)			Co	Feasible	Reasonable
Barrier ID	of Impacted Receptors Behind Proposed Barrier	# of Benefitting	# of Impacted	% of Total Impacted	#	% of Benefited	≥ 10 dB(A)	Estimated Cost	Cost/Benefit	(Y/N)	(Y/N)
NB 1	6	0	0	0	0	0	0	\$2,010,015	NA ³	Ν	Ν
NB 2	9	15	9	100	2	13	0	\$2,062,530	NA	Y	Ν
NB 3	5	0	0	0	0	0	0	\$993,105	NA	Ν	Ν
NB 4	8	20	6	75	12	60	5	\$414,135	\$20,707	Y	Y
NB 5	1	2	1	100	1	50	0	\$587,745	NA	Y	Ν
NB 6	46	36	9	20	13	36	0	\$4,216,815	NA	Ν	Ν
NB 7	64	32	28	44	6	19	1	\$2,229,120	NA	Ν	Ν
NB 8	11	14	11	100	11	79	2	\$1,071,675	\$76,548	Y	Ν
NB 9	1	1	1	100	0	0	0	\$1,921,635	NA	Y	Ν
NB 10	1	3	1	100	3	100	1	\$1,167,300	\$389,100	Y	Ν
NB 11	7	6	5	71	6	100	5	\$916,605	NA	Ν	Ν
NB 12	1	2	1	100	2	100	1	\$881,910	\$440,955	Y	Ν
NB 13	1	2	1	100	1	50	1	\$937,215	\$468,608	Y	Ν
NB 14	1	1	0	0	0	0	0	\$1,066,635	NA	Ν	Ν
NB 15	3	3	3	100	1	33	0	\$504,720	NA	Y	Ν
NB 16	2	3	2	100	2	67	0	\$811,080	NA	Y	Ν
NB 17	111	111	56	50	57	51	5	\$2,019,645	NA	Ν	Ν
NB 18	14	90	7	50	38	42	4	\$2,582,280	NA	Ν	Ν
NB 19	25	0	0	0	0	0	0	\$2,895,255	NA	Ν	Ν
NB 20	63	0	0	0	0	0	0	\$2,083,455	NA	Ν	Ν
	Indicates fe	acible and	roaconabla	noice horrig	ar.						

Table 8. Noise Barrier Designs Analyzed

Indicates feasible and reasonable noise barrier.

¹ MDOT requires that noise barriers achieve a 5-dB reduction at 75 percent of the impacted receptors. If a barrier cannot achieve this, abatement is considered to not be acoustically feasible.

² The design year attenuation requirement for Michigan is to provide a noise reduction of 10 dB(A) for at least one benefited receptor and at least a seven dB(A) reduction for 50 percent) or more of the benefited receptor sites.

³ NA – Noise barrier is not feasible or does not meet the design goal.

6 Undeveloped Lands

The distances to 66 dB(A) $L_{eq(1h)}$, which vary along the project corridor, are presented to assist local planning authorities in developing land use control over the remaining undeveloped lands along the project to prevent further development of incompatible land use. While there are no undeveloped lands within the project corridor, there is potential for the redevelopment of existing vacant lands. The 66 dB(A) setback distances are mapped in Appendix A. The setback distances are typically between the first or second row of residences along the service drives and the curb line. Therefore, there is no 71 dB(A) setback in the study corridor.

It is recommended that any future development proposed in the project corridor be modeled with accurate survey data to avoid creating incompatible land uses adjacent to the project.

7 Conclusions and Recommendations

One of the twenty barriers (NB-4) analyzed did meet MDOT's preliminary feasible and reasonableness criteria. Nineteen analyzed barriers did not meet MDOT's preliminary feasible and reasonableness criteria. Additionally, based on the scattered location of noise impacts along the corridor, noise barriers are not reasonable for individual receptors.

7.1 Statement of Likelihood

Based on the studies thus far accomplished, MDOT intends to install highway traffic noise abatement in the form of the barriers presented in **Table 8** in this document. The preliminary assessment is based on preliminary design for barrier cost(s) and noise abatement as discussed in this document. If it subsequently develops during final design that these conditions have substantially changed, abatement measures might not be provided.

7.2 Construction Noise

In addition to noise from traffic, construction activities themselves can produce increased noise of a temporary nature. MDOT will be sensitive to local needs and may adjust work practices to reduce inconvenience to the public.

The major construction elements of this project are expected to be demolition, hauling, grading, paving, and bridge construction. Construction of the proposed improvements will result in a temporary increase in the ambient noise level along I-94. General construction noise impacts for passersby and those individuals living or working near the project can be expected particularly from demolition, earth moving, pile driving, and paving operations. Equipment associated with construction generally includes backhoes, graders, pavers, concrete trucks, compressors, and other miscellaneous heavy equipment. **Figure 3** lists some typical peak operating noise levels at a distance of 15 m (50 feet), grouping construction equipment according to mobility and operating characteristics. Considering the relatively short-term nature of construction noise, impacts are not expected to be substantial.

Figure 3. Construction Noise Sound Levels

Levels Sound levels [dB(A)] at 50 feet

		60	70	80	90	100	110
Equipment Powered by In	ternal Combustion Engines						
Earth Moving	Compactors (Rollers)	-					
	Front Loaders	Real Property lies					
	Backhoes						
	Tractors		-		E.		
	Scrpaers, Graders		-	_			
	Pavers			-			
	Trucks			_			
Materials Handling	Concrete Mixers	•		-	4		
	Concrete Pumps						
	Cranes (Movable)		-				
	Cranes Derricks	-		-			
Stationary	Pumps						
	Generators						
	Compressors		-				
mpact Equipment							
	Pnuematic Wrenches	1					
	Jackhammers, Rock Drills				-		
	Pile Drivers (Peaks)			1			
Other Equipment							
	Vibrator						
	Saws						

Source: U.S. Report to the President and the Congress on Noise, February 1972.

7.3 Construction Vibration

Temporary vibration impacts could occur in residential areas and at other vibration-sensitive land uses from activities associated with construction of the project, such as excavation, demolition, and vibratory compaction, as well as pile-driving at bridges, noise walls, and retaining walls. The potential for vibration impact would be greatest at locations near pile-driving for bridges and other structures, pavement breaking, and at locations close to vibratory compactor operations.

The equipment with the highest vibration level for roadway construction is the vibratory roller, and the highest potential vibration level for pile driving is with the impact pile driver. For buildings near pile driving activities, short-term construction vibration impact can extend to approximately 100 feet from the construction site. For buildings near roadway construction activities, short-term construction vibration impact can extend to approximately 30 feet from the construction site.

Human annoyance from pile driving could extend to approximately 400 feet from the construction site while roadway construction annoyance could extend to approximately 100 feet from the construction site.

The primary means of mitigating short-term vibration impacts resulting from construction activities is to require the contractors to prepare a vibration control plan. Key elements of a plan include:

- Identify vibration sensitive buildings
- Conduct a pre-construction inspection of residences, historical and other vibration sensitive structures in the project corridor
- Prohibit certain activities that create higher vibration levels during nighttime hours
- Implement vibration control measures where appropriate
- Develop a method for responding to community complaints

8 References

Anderson, G. S., C.S.Y. Lee, G.G. Fleming and C. Menge, *FHWA Traffic Noise Model®*, *Version 1.0 User's Guide*, Federal Highway Administration, January 1998, p. 60.

FHWA, Noise Policy FAQs – Frequently Asked Questions https://www.fhwa.dot.gov/environment/noise/regulations_and_guidance/faq_nois.cfm#D4e

FHWA's, Procedures for Abatement of Highway Traffic Noise and Construction Noise, Code of Federal Regulations, Title 23 Part 772 (23 CFR 722).

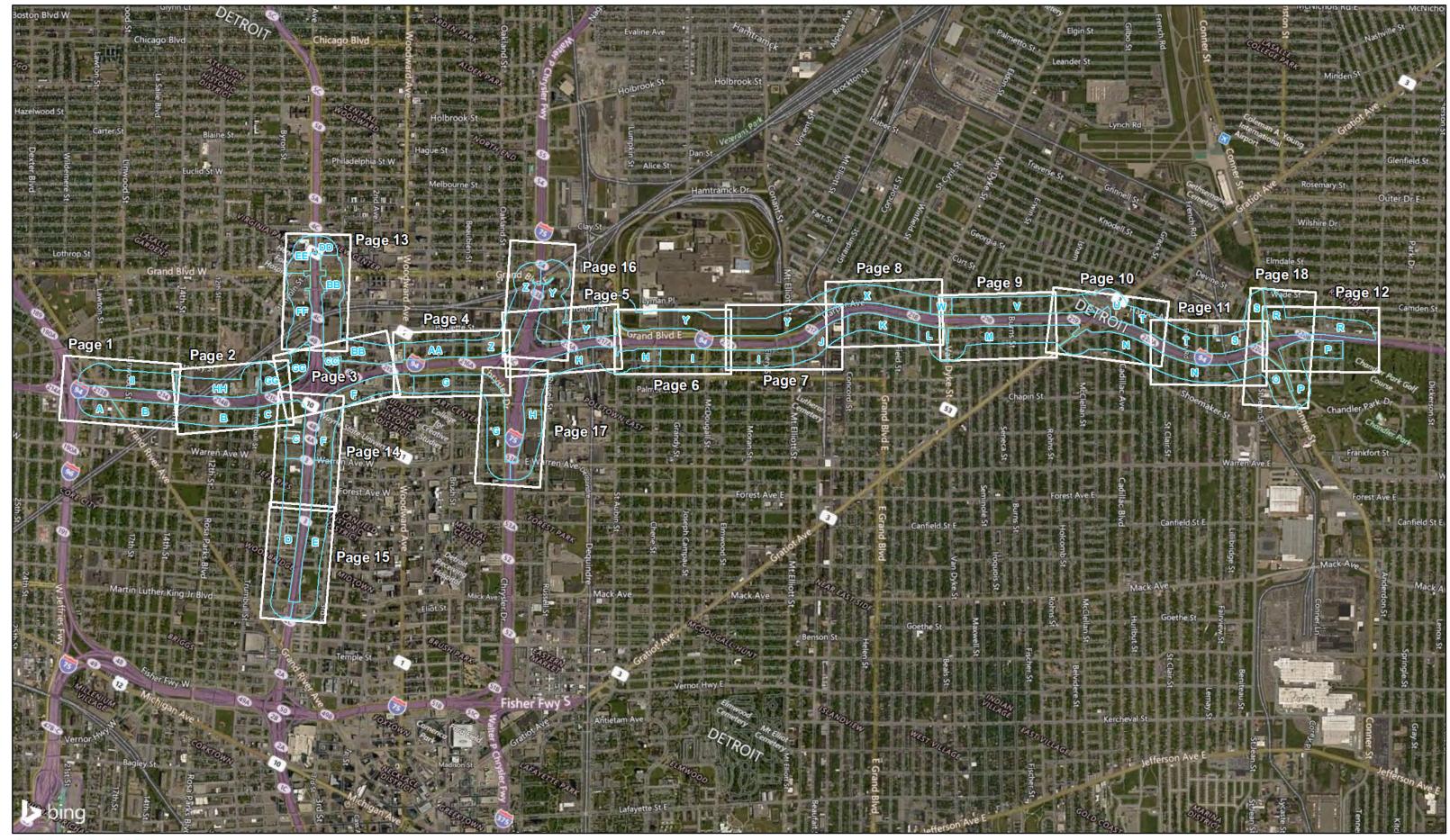
FHWA's, *Recommended Best Practices for the Use of the Traffic Noise Model, Code of Federal Regulations*, December 8, 2015.

Hanf, Thomas. Email regarding "Re: Noise and Air Quality Guidance – I-375". MDOT Air Quality & Noise Abatement, April 17, 2018.

Lau, Michael C., Cynthia S. Y. Lee, Gregg G. Judith L. Rochat, Eric R. Boeker, and Gregg C. Fleming. FHWA Traffic Noise Model[®] Users Guide (Version 2.5 Addendum). Federal Highway Administration, April 2004.

Michigan Department of Transportation. *Highway Noise Analysis and Abatement Handbook*, July 2011.

Appendix A: Traffic Noise Study Exhibits



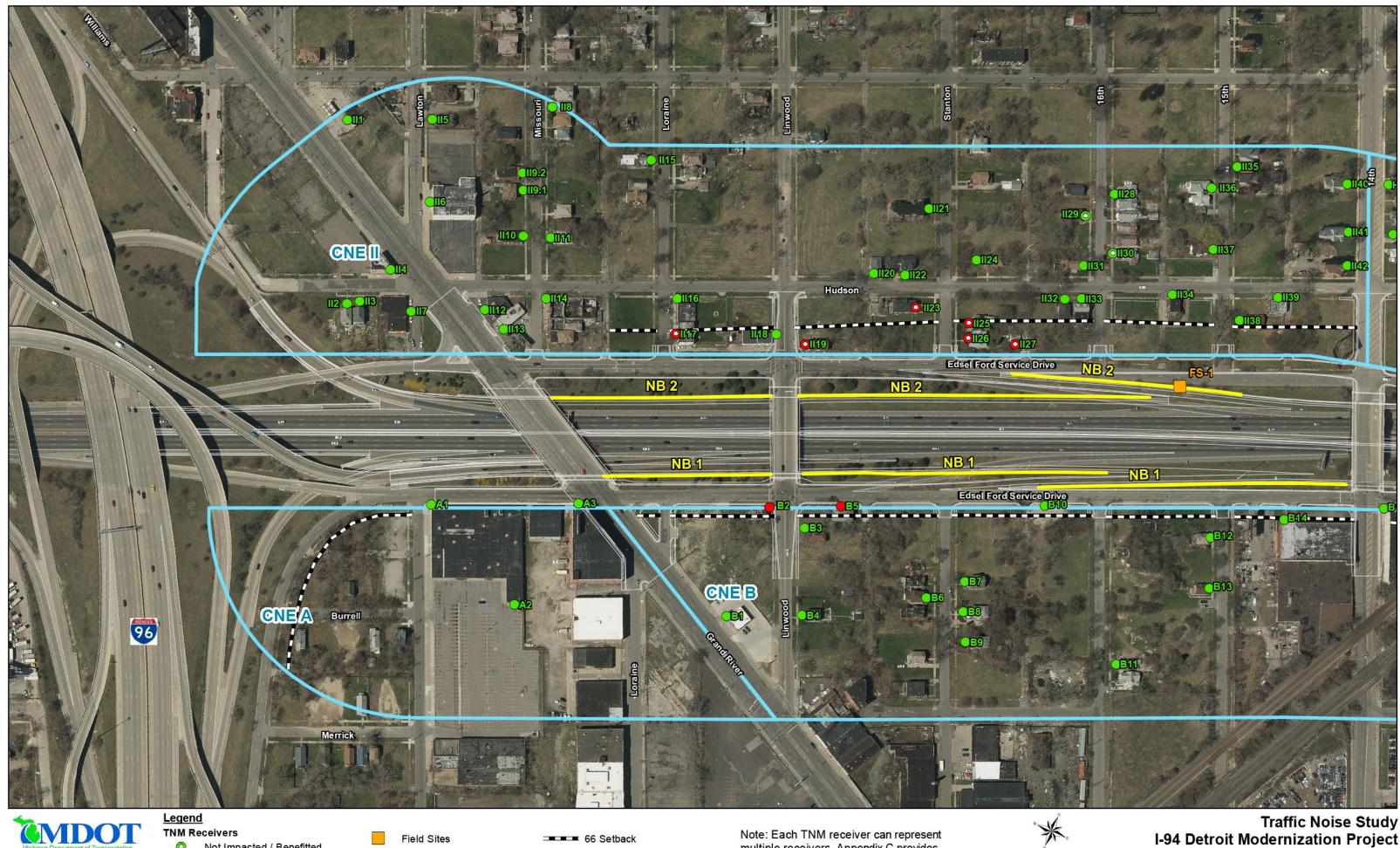


I-94 Modernization Project DSEIS Appendix G: Noise and Vibration Analysis Technical Memorandum



2

Traffic Noise Study I-94 Downtown Improvement Project Detroit, Michigan



0 Not Impacted / Benefitted

0 Impacted / Benefitted

- Impacted / Benefitted Noise Barriers Analy Not Impacted / Not Benefitted Feasible and Reaso I-94 Modernization Project DSER Appendicted Appendicted Noise Barriers Analy Noise Barriers Analyzed Feasible and Reasonable

Alternative Common Noise Environment multiple receivers. Appendix C provides details of the number of receptors per receiver shown on this exhibit.

✵

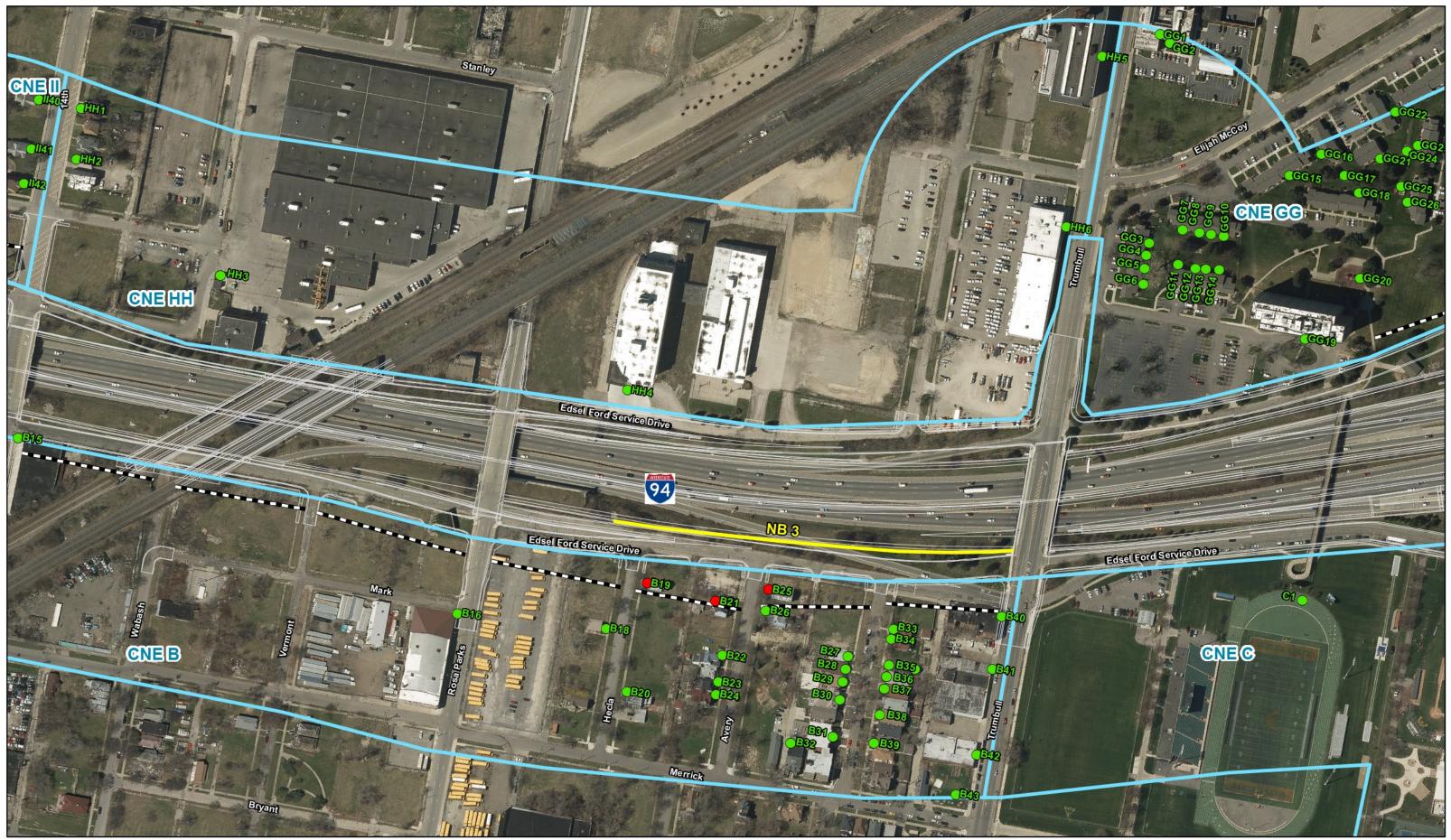
I-94 Detroit Modernization Project Detroit, Michigan

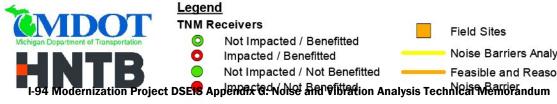
Figu<u>re</u> 4.2

Feet

200

400





<u>Legend</u> TNM Receivers 0 Not Impacted / Benefitted

66 Setback

Field Sites

Noise Barriers Analyzed

Feasible and Reasonable

Alternative Common Noise Environment

Note: Each TNM receiver can represent multiple receivers. Appendix C provides details of the number of receptors per receiver shown on this exhibit.

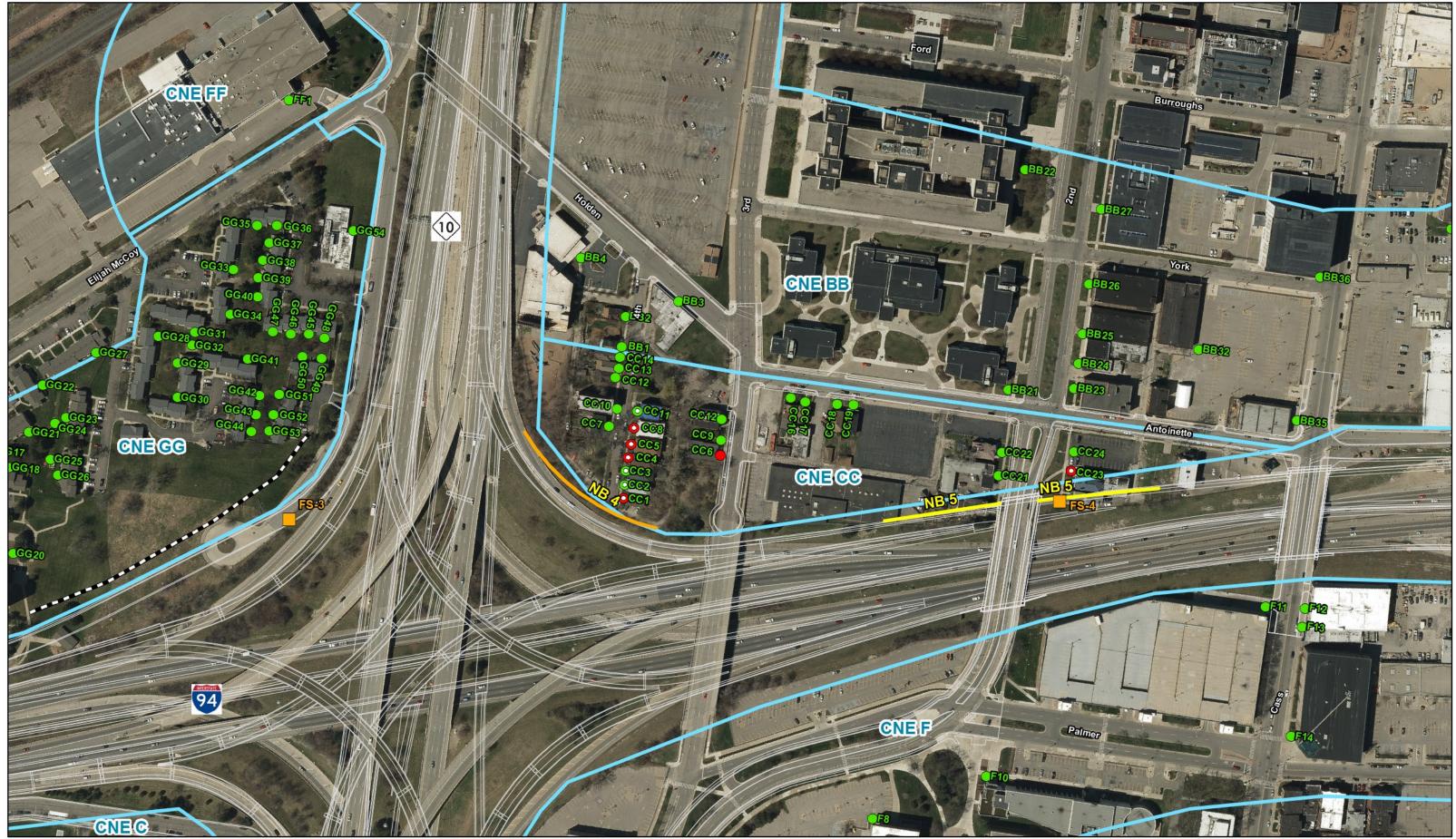
*

Traffic Noise Study I-94 Detroit Modernization Project Detroit, Michigan

Figure 4.3

Feet

200



Legend Impacted / Benefitted Noise Barriers Analy Not Impacted / Not Benefitted Feasible and Reaso I-94 Modernization Project DSER Appendix C. Noise Barrier Analy Barrier Analy

TNM Receivers 0 Not Impacted / Benefitted 0

Impacted / Benefitted

Field Sites Noise Barriers Analyzed

Feasible and Reasonable

66 Setback Alternative

Common Noise Environment

Note: Each TNM receiver can represent multiple receivers. Appendix C provides details of the number of receptors per receiver shown on this exhibit.

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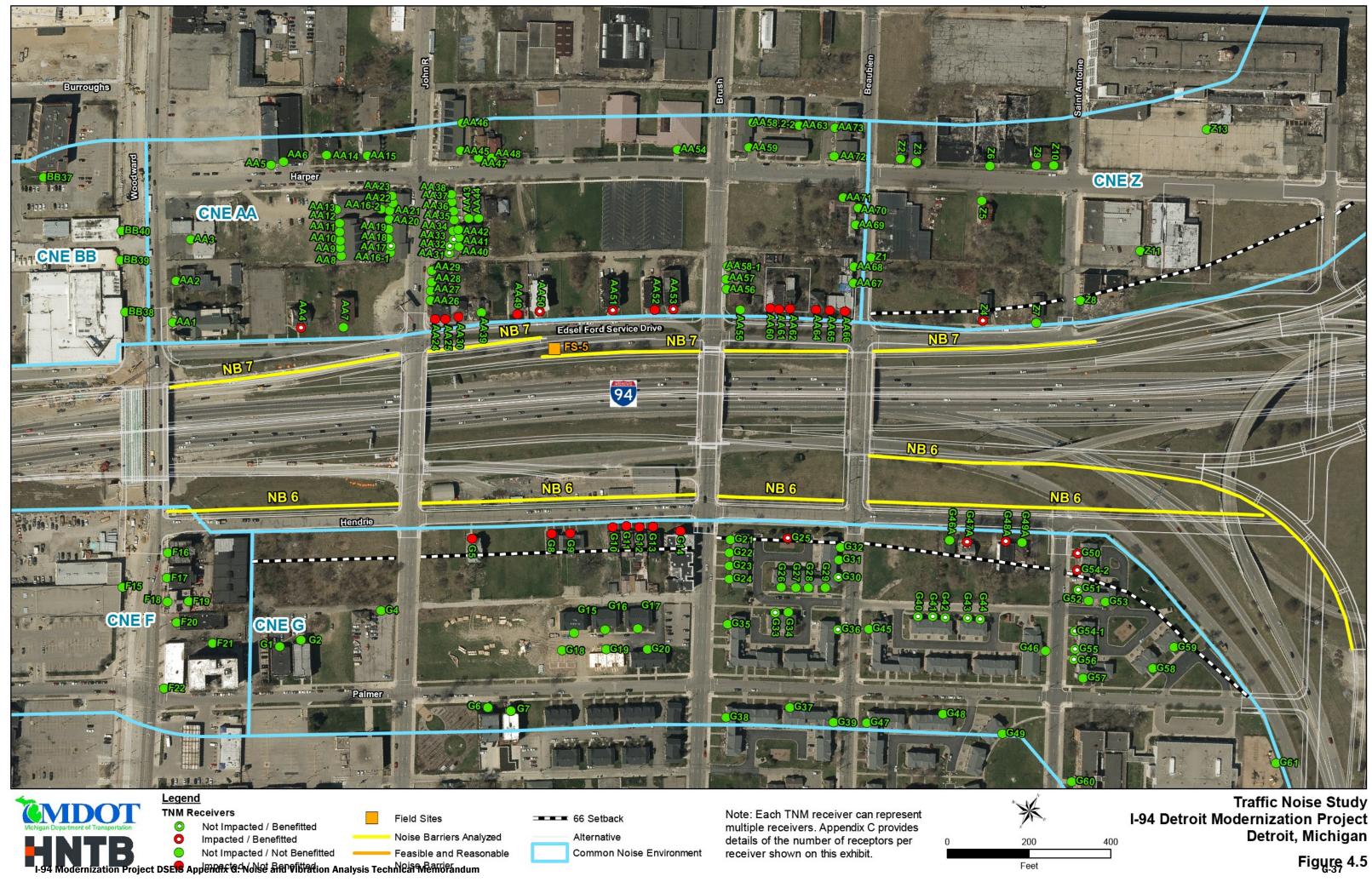
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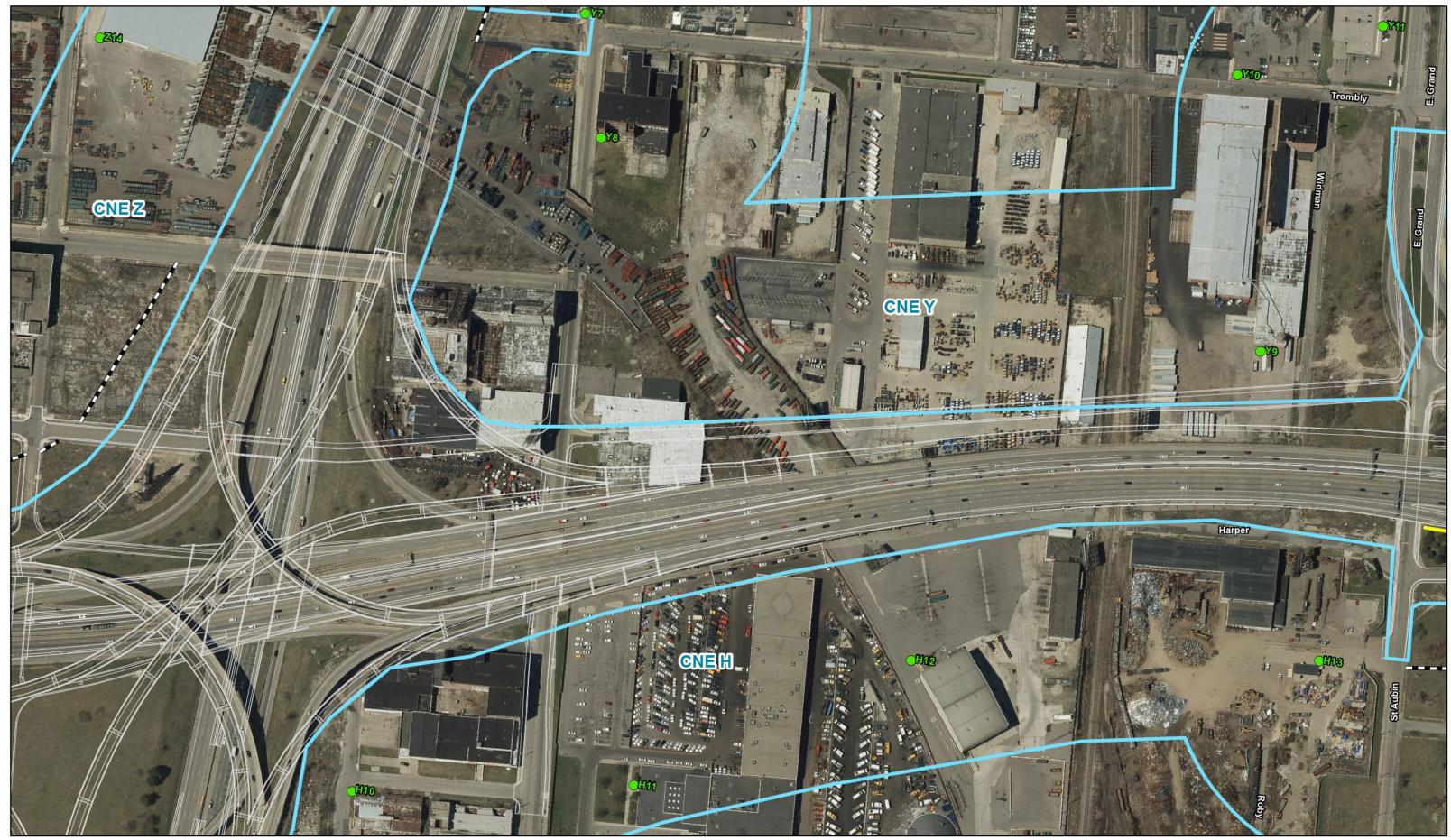
Traffic Noise Study I-94 Detroit Modernization Project Detroit, Michigan

Figure 4.4

Feet

200





Michigan Department of Transportation Impacted / Benefitted Noise Barriers Analy Not Impacted / Not Benefitted Feasible and Reaso I-94 Modernization Project DSER Appendix C. Noise Barrier Analy

<u>Legend</u> TNM Receivers

Not Impacted / Benefitted

Field Sites Noise Barriers Analyzed Feasible and Reasonable 66 Setback Alternative Common Noise Environment

Note: Each TNM receiver can represent multiple receivers. Appendix C provides details of the number of receptors per receiver shown on this exhibit.

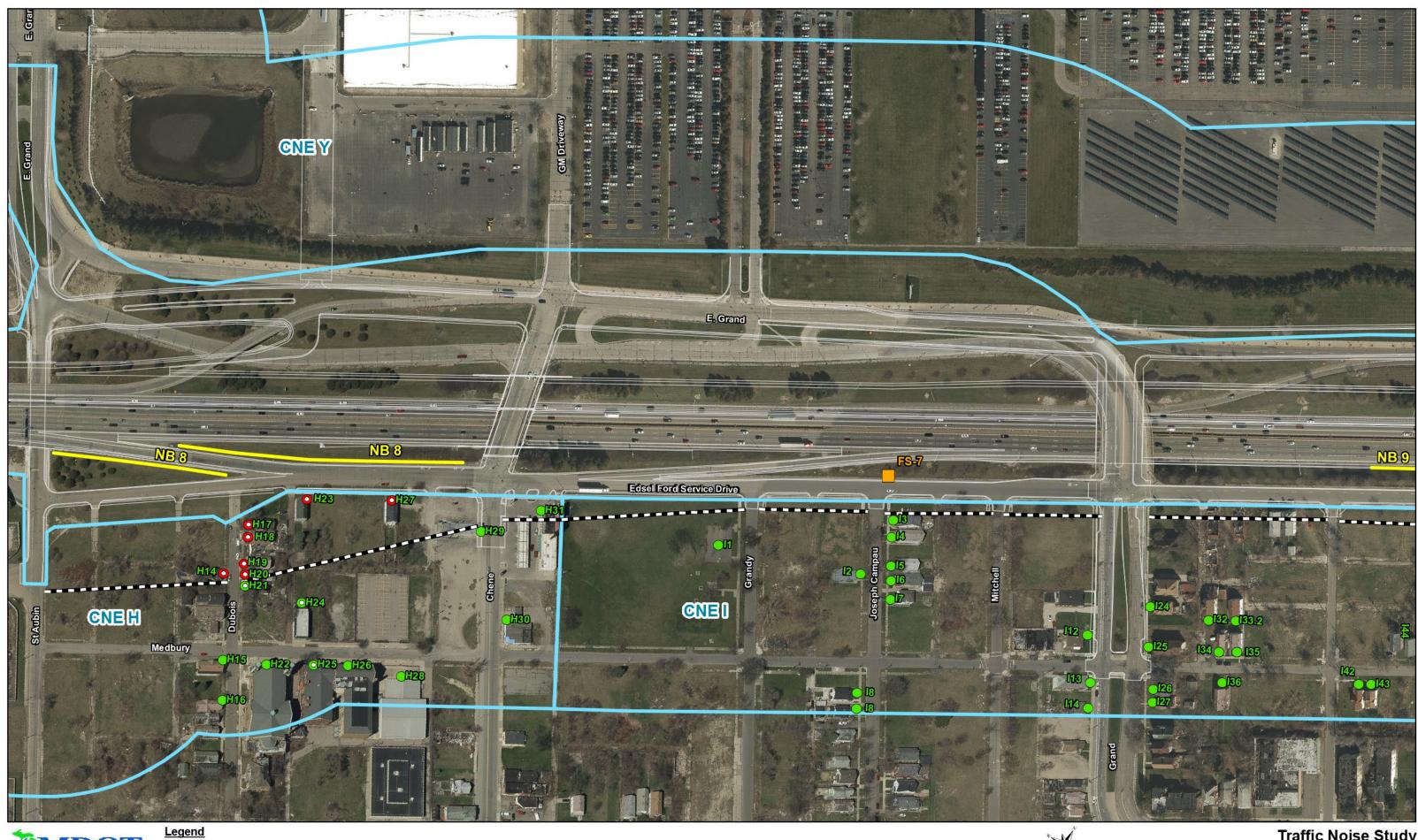
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-	A	1		
2	X	4	7	
		F	5	2
1	-			\$
s				

400

Traffic Noise Study I-94 Detroit Modernization Project Detroit, Michigan

Figure 4.6

Feet



TNM Receivers

0 Not Impacted / Benefitted

Field Sites Impacted / Benefitted Noise Barriers Analy Not Impacted / Not Benefitted Feasible and Reaso I-94 Modernization Project DSEIS Appendix of Noise Barrier Analy

Noise Barriers Analyzed Feasible and Reasonable

66 Setback Alternative Common Noise Environment

Note: Each TNM receiver can represent multiple receivers. Appendix C provides details of the number of receptors per receiver shown on this exhibit.

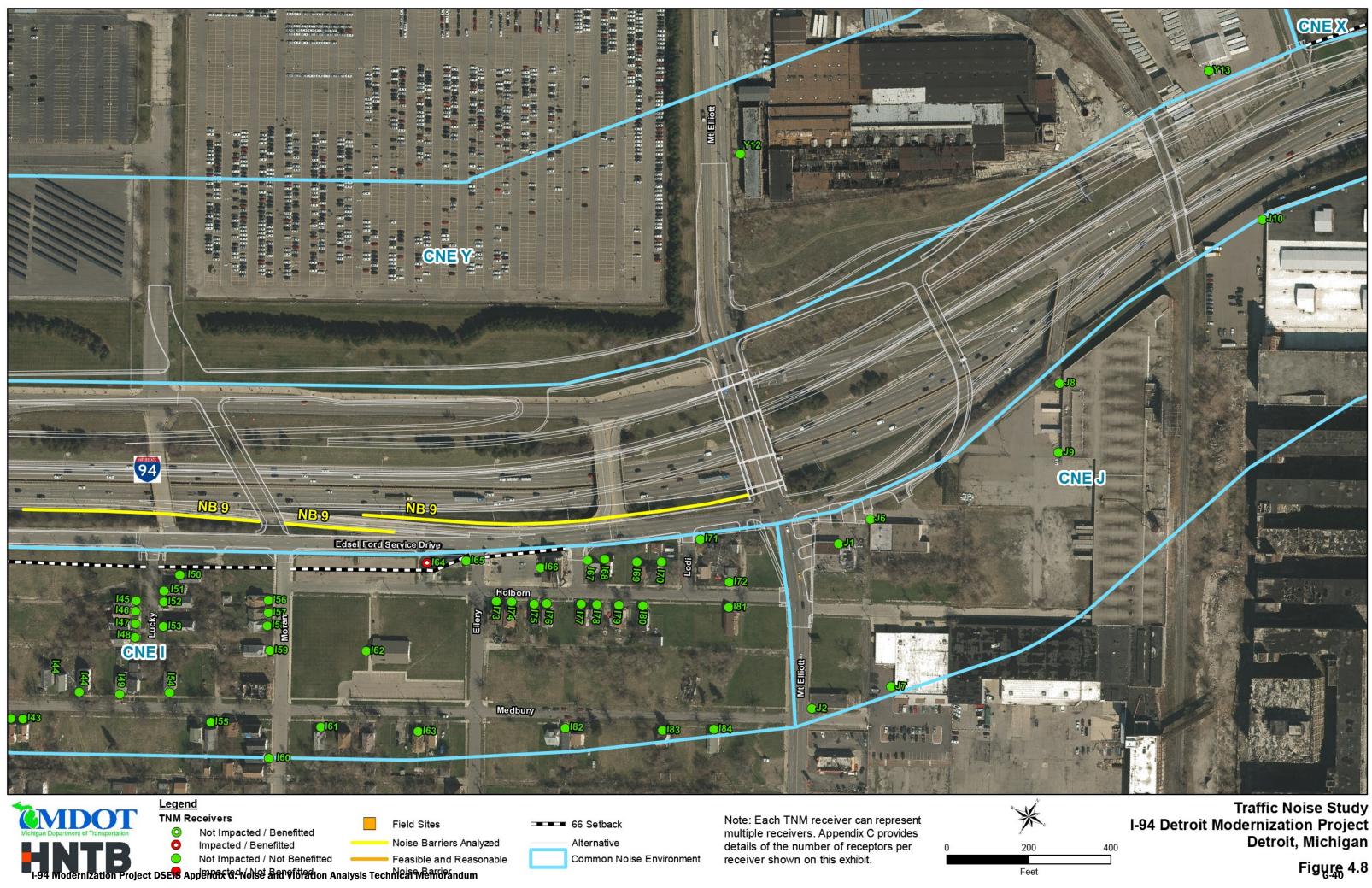
⋇

Traffic Noise Study I-94 Detroit Modernization Project Detroit, Michigan

Figure 4.7

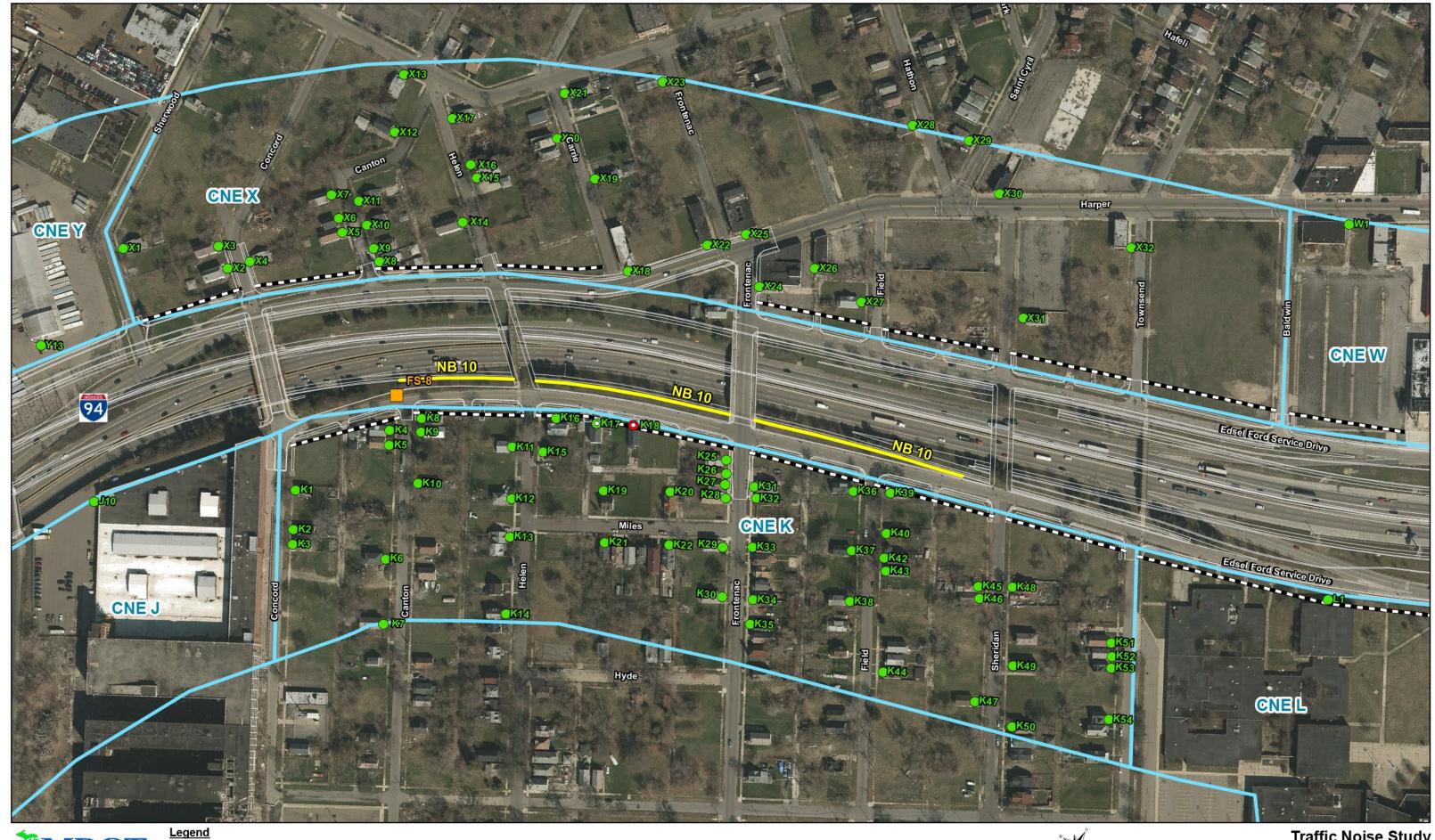
Feet

200

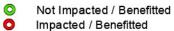


Figu<u>re</u> 4.8

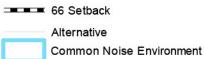
Feet



Michigan Department of Transportation **TNM Receivers** 0 Impacted / Benefitted Not Impacted / Not Benefitted Feasible and Reason I-94 Modernization Project DSETS Appleholic C. Noise Ban Piblic Charles And Piblic Concerning And Piblic



Field Sites Noise Barriers Analyzed Feasible and Reasonable



Note: Each TNM receiver can represent multiple receivers. Appendix C provides details of the number of receptors per receiver shown on this exhibit.

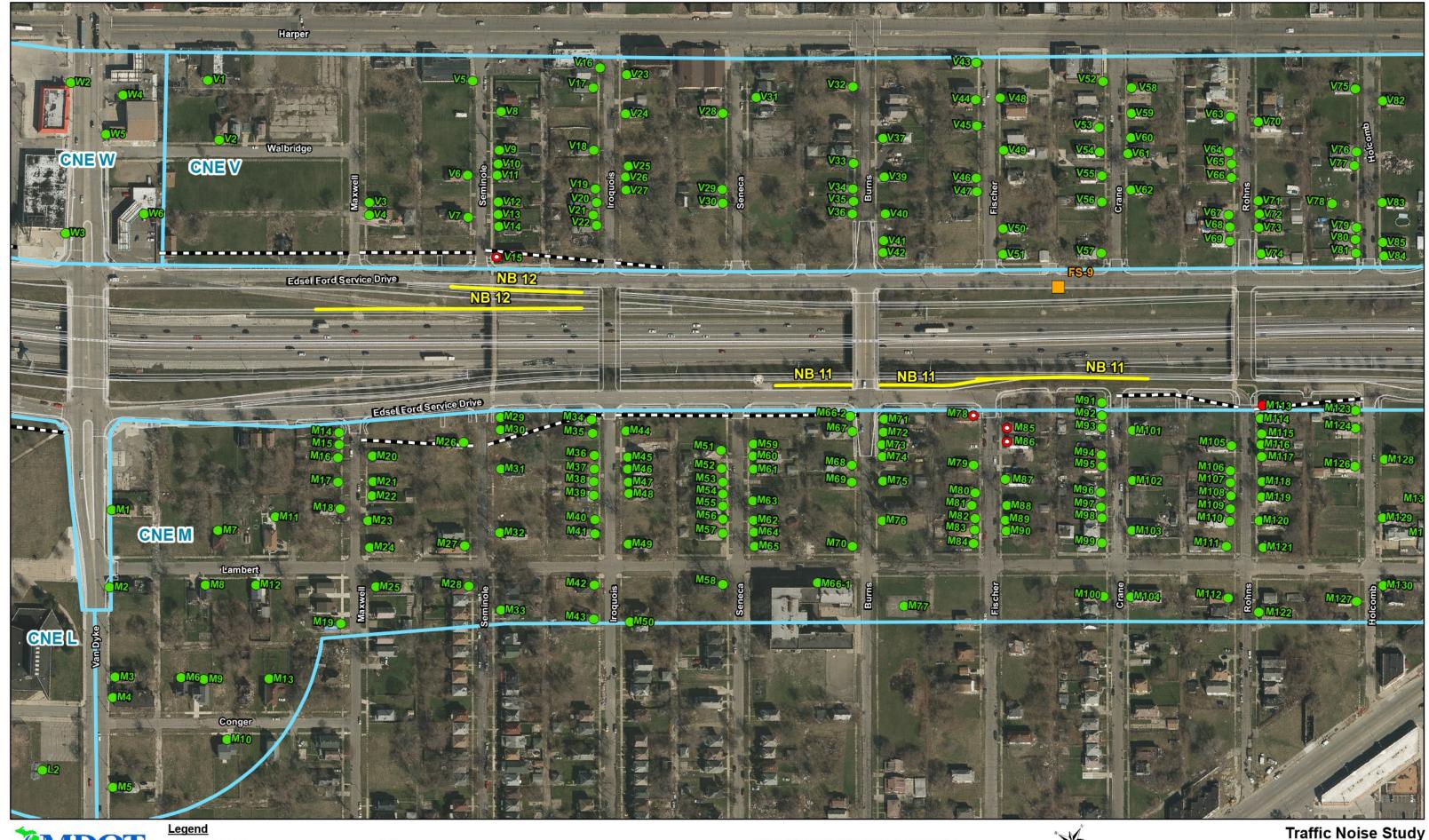
⋇

Traffic Noise Study I-94 Detroit Modernization Project Detroit, Michigan

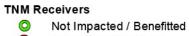
Fig<u>ure</u> 4.9

Feet

200



MDOT Impacted / Benefitted Noise Barriers Analy Not Impacted / Not Benefitted Feasible and Reaso I-94 Modernization Project DSER Appendictor Analysis Technical Memorandum



Field Sites Noise Barriers Analyzed Feasible and Reasonable 66 Setback Alternative Common Noise Environment

Note: Each TNM receiver can represent multiple receivers. Appendix C provides details of the number of receptors per receiver shown on this exhibit.

⋇

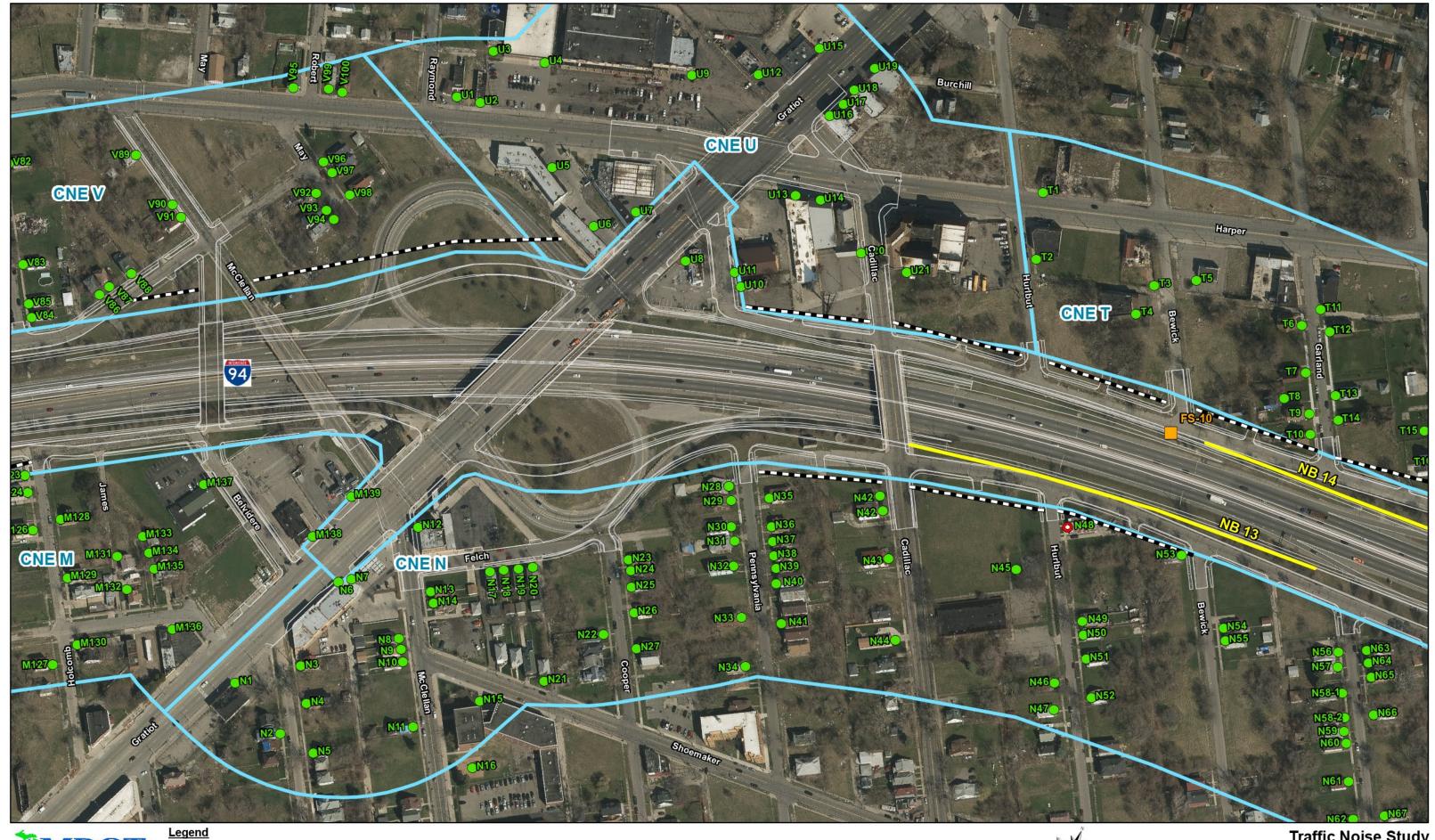
I-94 Detroit Modernization Project Detroit, Michigan

Figure 4.10

Feet

200

400



CANDOT Michigan Department of Transportation **TNM Receivers** Impacted / Benefitted Noise Barriers Analy Not Impacted / Not Benefitted Feasible and Reaso I-94 Modernization Project DSER Appendictor Analysis Technical Memorandum

0 Not Impacted / Benefitted Field Sites Noise Barriers Analyzed Feasible and Reasonable

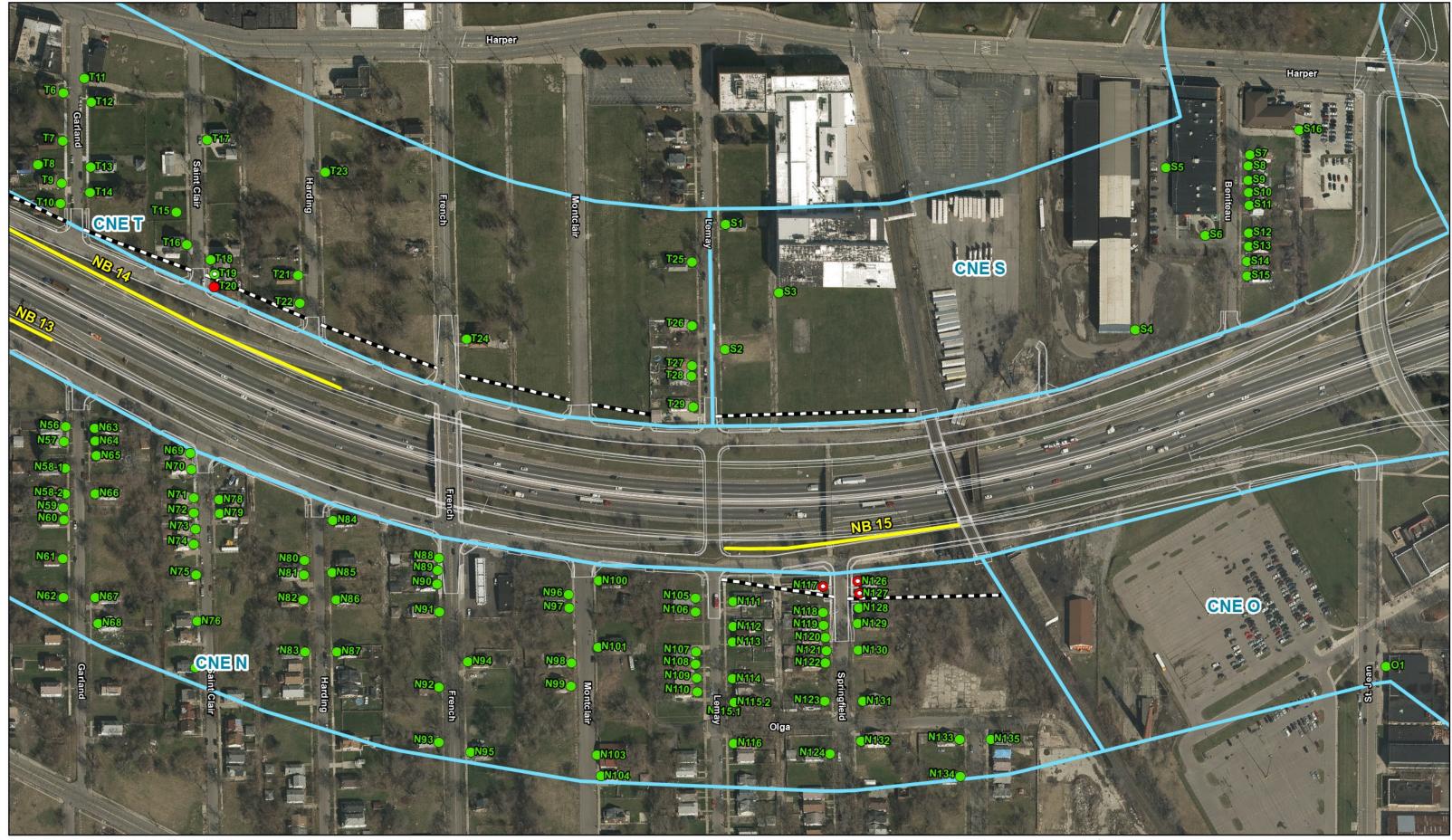
66 Setback Alternative Common Noise Environment Note: Each TNM receiver can represent multiple receivers. Appendix C provides details of the number of receptors per receiver shown on this exhibit.

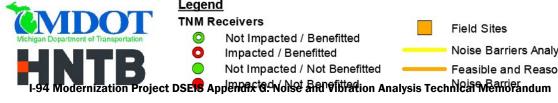
Traffic Noise Study I-94 Detroit Modernization Project Detroit, Michigan

Figure 4.11

Feet

200





Legend

- **TNM Receivers** 0 Not Impacted / Benefitted

- Field Sites Noise Barriers Analyzed Feasible and Reasonable

Alternative Common Noise Environment

66 Setback

Note: Each TNM receiver can represent multiple receivers. Appendix C provides details of the number of receptors per receiver shown on this exhibit.

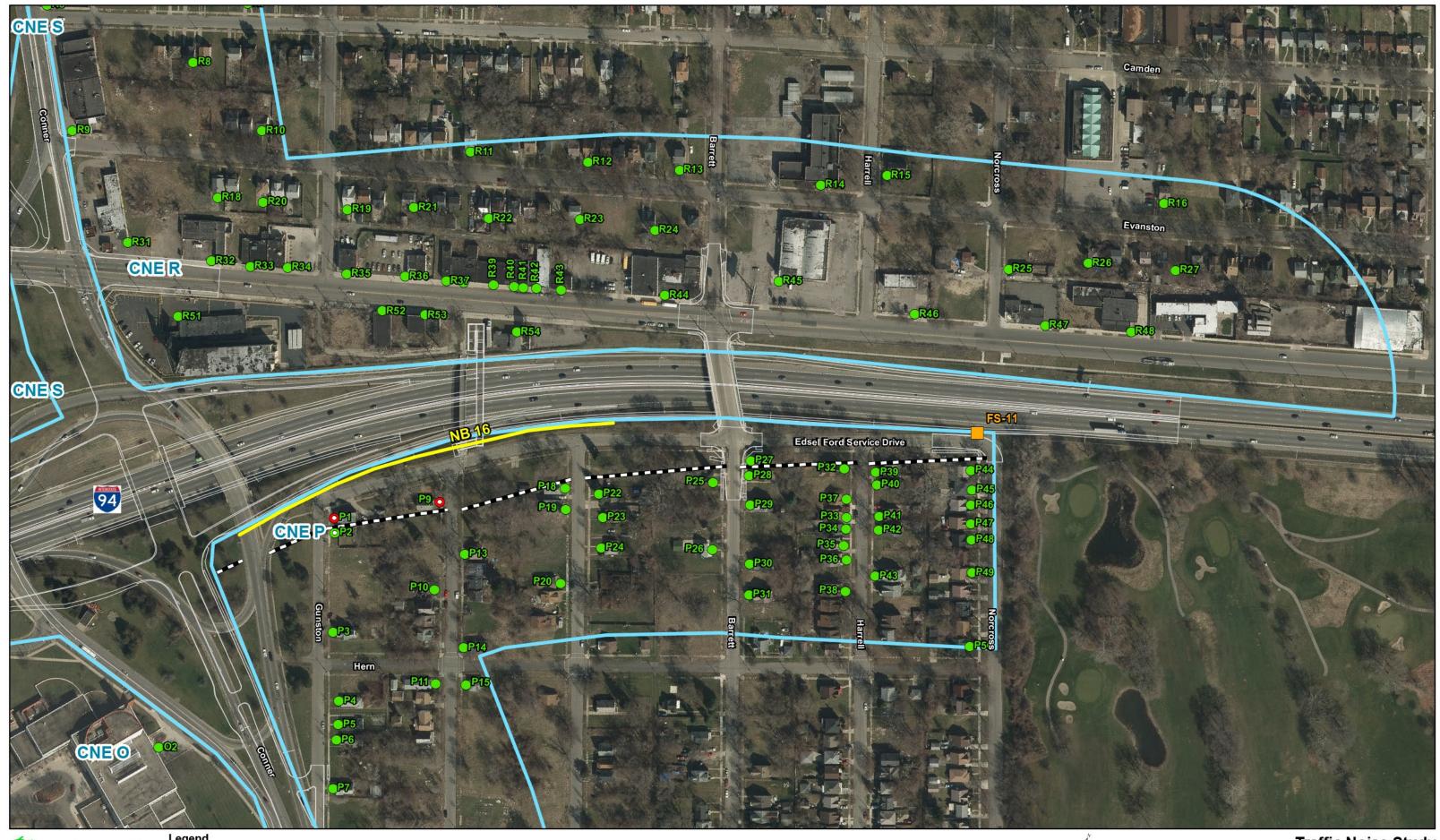
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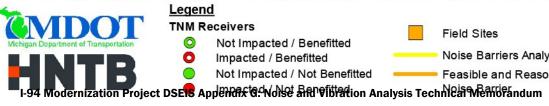
Traffic Noise Study I-94 Detroit Modernization Project Detroit, Michigan

Figure 4.12

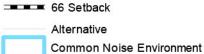
Feet

200









Note: Each TNM receiver can represent multiple receivers. Appendix C provides details of the number of receptors per receiver shown on this exhibit.

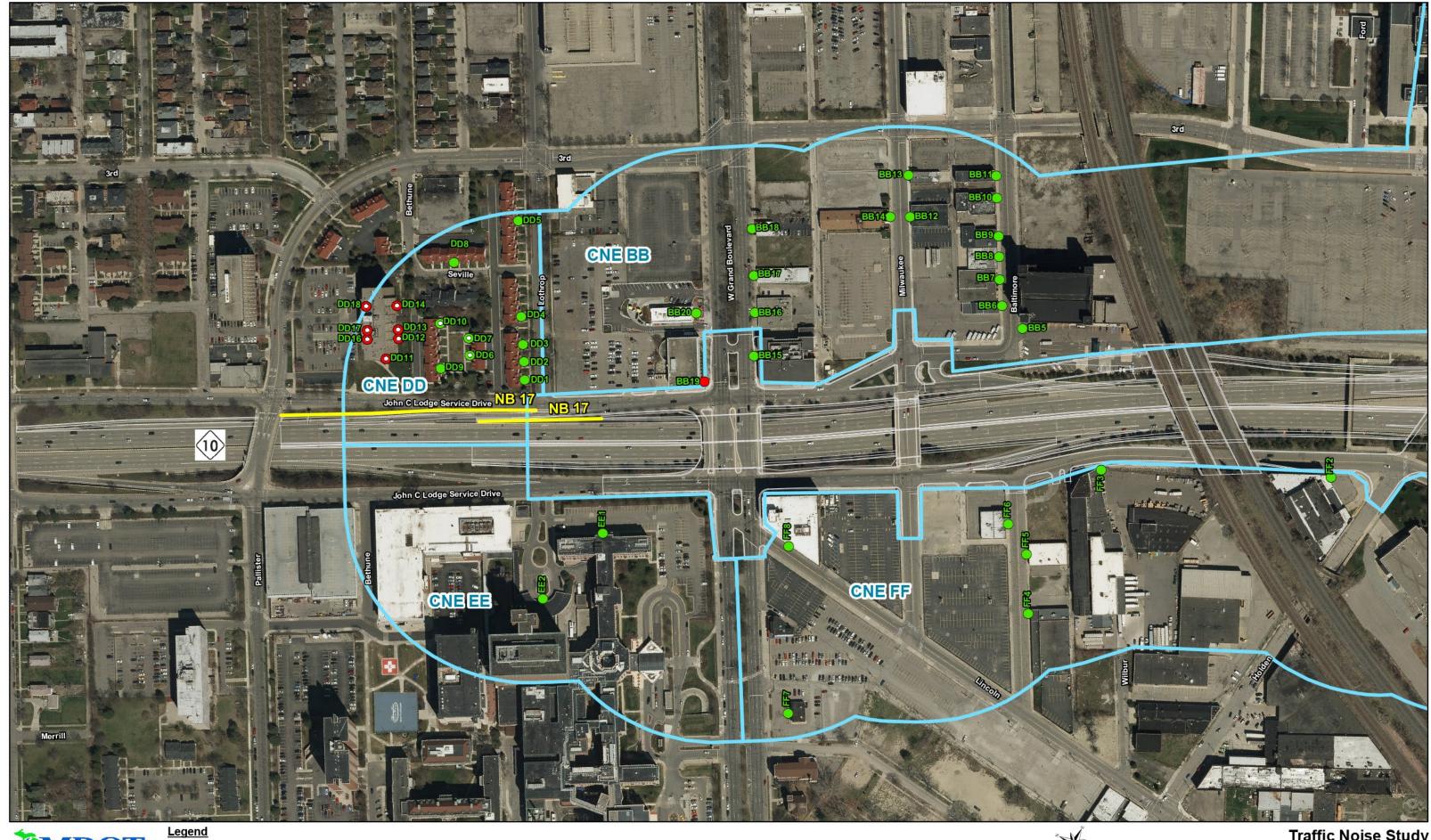
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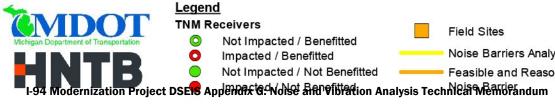
400

Traffic Noise Study I-94 Detroit Modernization Project Detroit, Michigan

Figure 4.13

Feet





TNM Receivers

0 Not Impacted / Benefitted Field Sites

Noise Barriers Analyzed Feasible and Reasonable 66 Setback Alternative Common Noise Environment

Note: Each TNM receiver can represent multiple receivers. Appendix C provides details of the number of receptors per receiver shown on this exhibit.

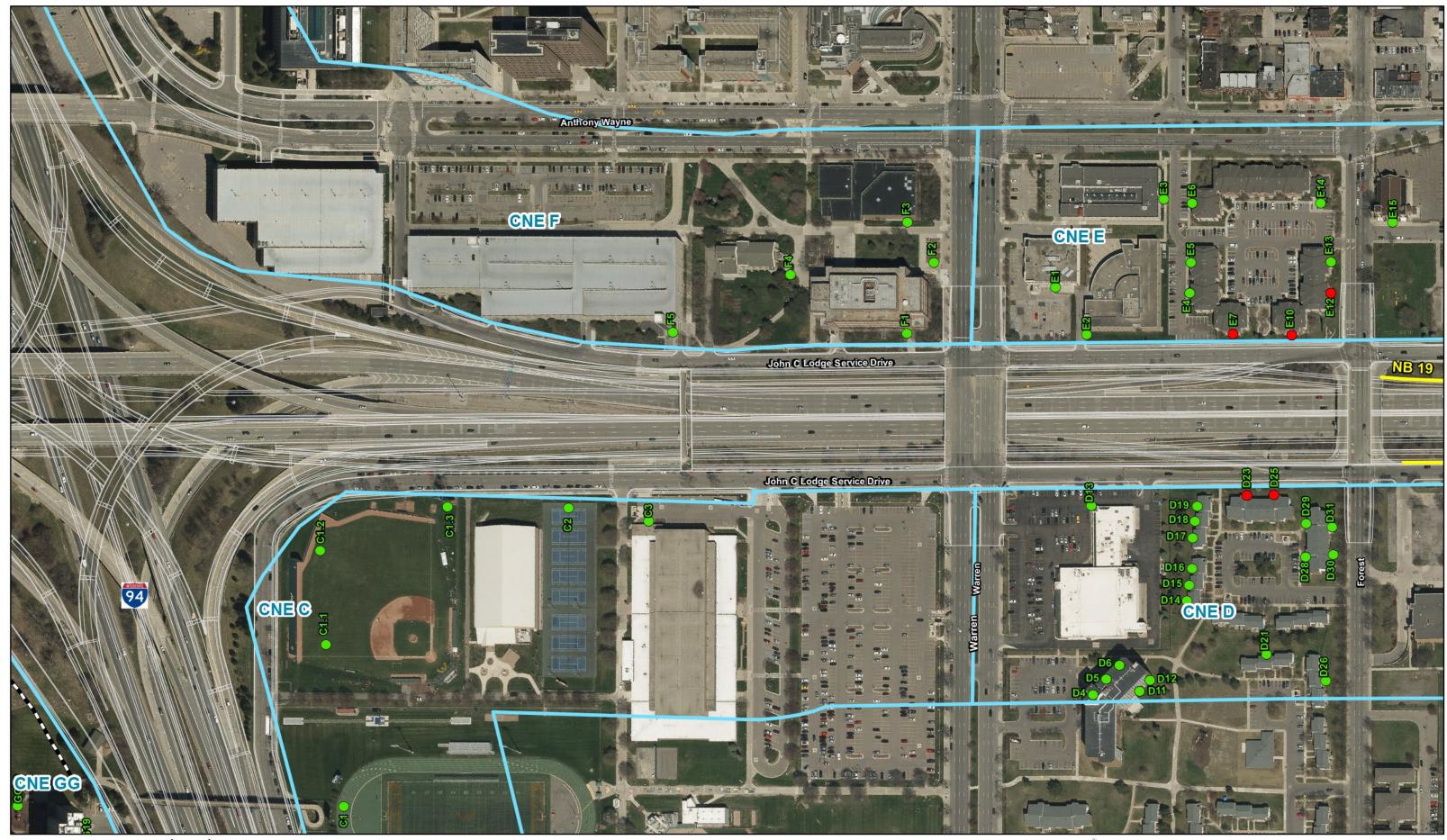
✵ 200

400

Traffic Noise Study I-94 Detroit Modernization Project Detroit, Michigan

Figure 4.14

Feet



<u>Legend</u> TNM Receivers 0

Not Impacted / Benefitted 0 Impacted / Benefitted

Field Sites Impacted / Benefitted Not Impacted / Not Benefitted I-94 Modernization Project DSER Applemarter Analysis Technical Memorandum Noise Barriers Analyzed Feasible and Reasonable

66 Setback Alternative Common Noise Environment

Note: Each TNM receiver can represent multiple receivers. Appendix C provides details of the number of receptors per receiver shown on this exhibit.

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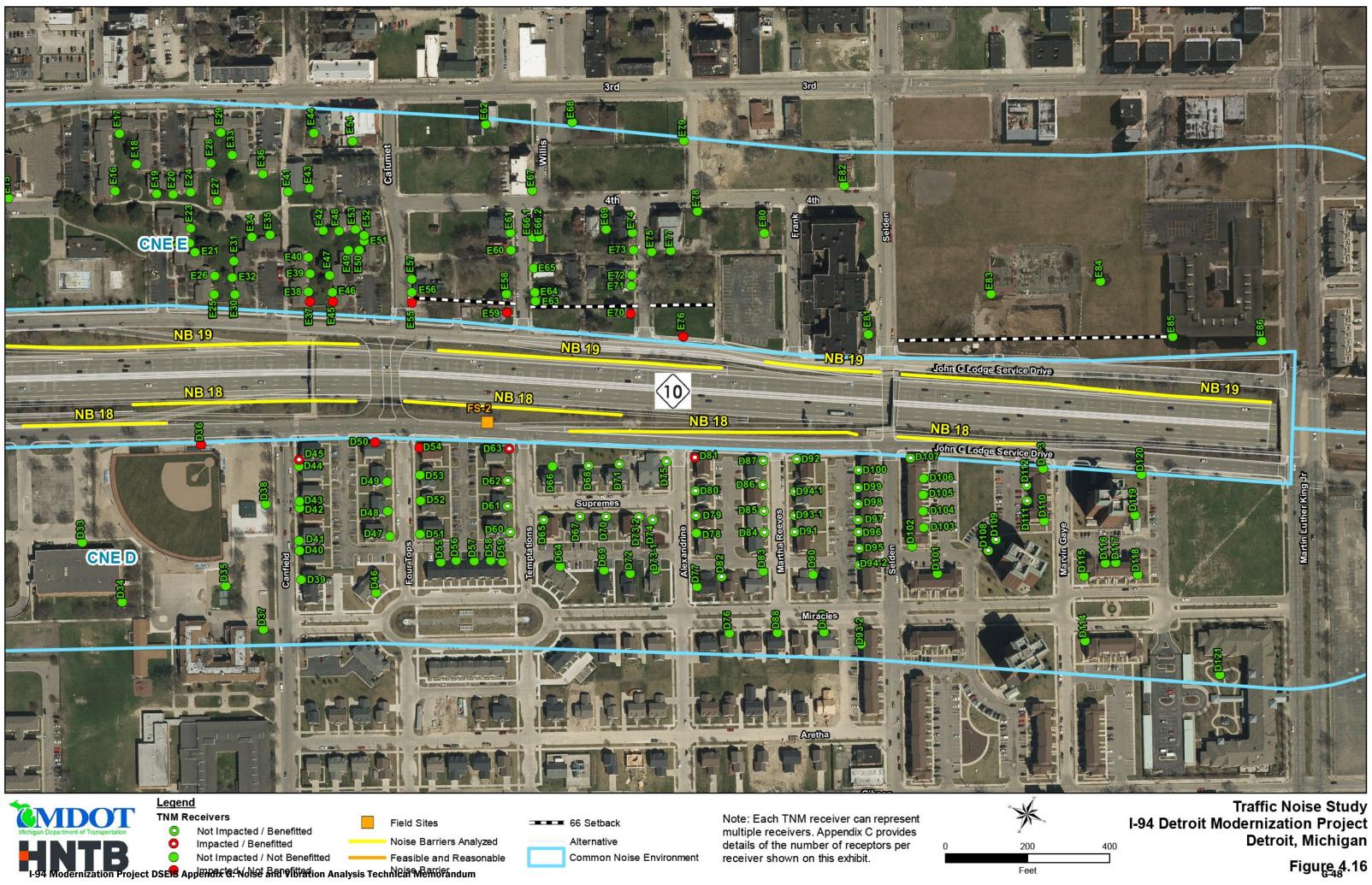
Traffic Noise Study I-94 Detroit Modernization Project Detroit, Michigan

Figure 4.15

Feet

200

400



Common Noise Environment

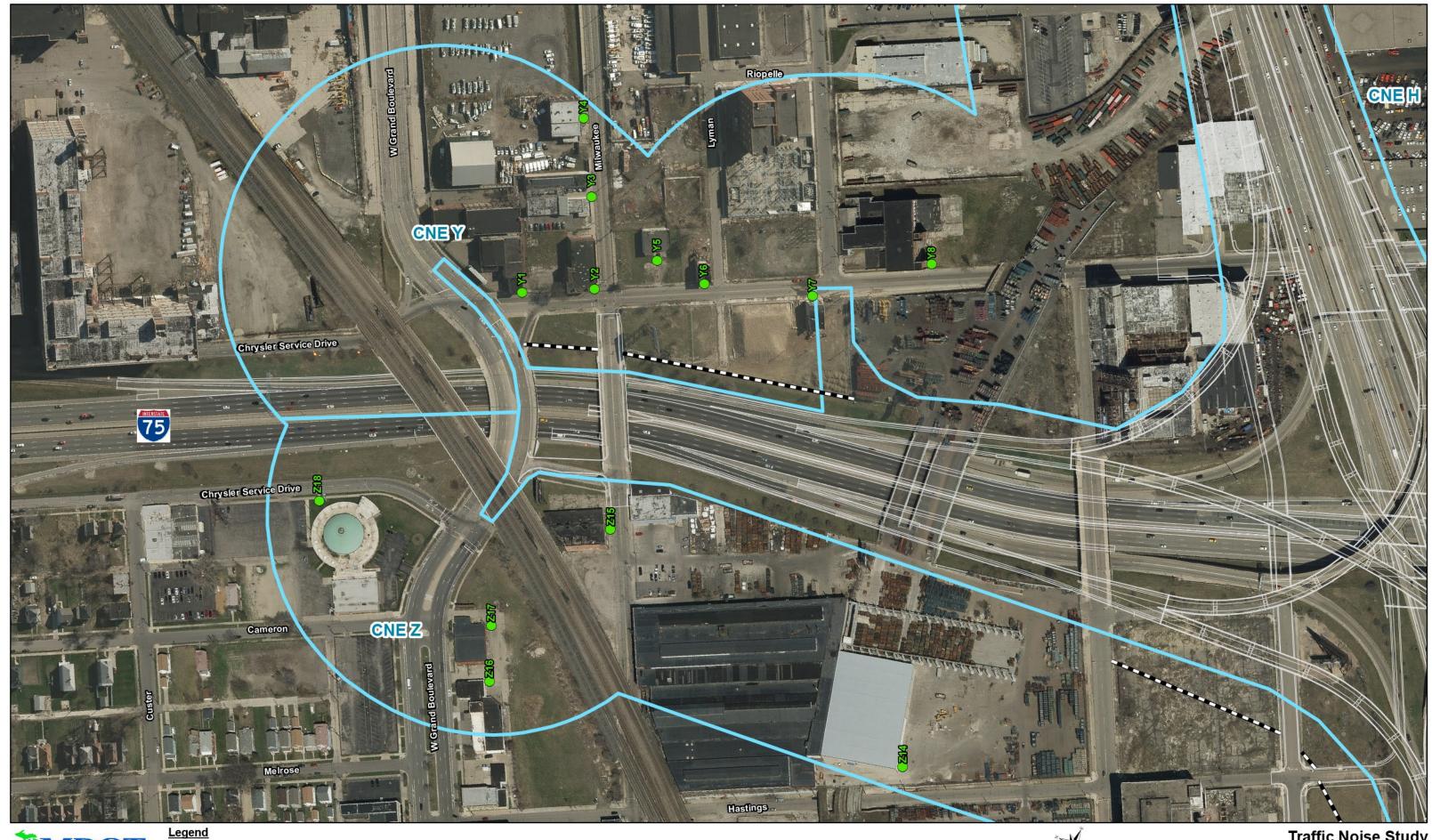
receiver shown on this exhibit.

Feasible and Reasonable

Detroit, Michigan

Figure 4.16

Feet



CANDOT Michigan Department of Transportation **TNM Receivers** Impacted / Benefitted Noise Barriers Analy Not Impacted / Not Benefitted Feasible and Reaso I-94 Modernization Project DSER Appendictor Analysis Technical Memorandum

0 Not Impacted / Benefitted Field Sites

Noise Barriers Analyzed Feasible and Reasonable

66 Setback Alternative Common Noise Environment Note: Each TNM receiver can represent multiple receivers. Appendix C provides details of the number of receptors per receiver shown on this exhibit.

Traffic Noise Study I-94 Detroit Modernization Project Detroit, Michigan

Figure 4.17

✵ 200



<u>Legend</u> TNM Receivers

0 Not Impacted / Benefitted 0 Impacted / Benefitted

Field Sites Impacted / Benefitted Noise Barriers Analy Not Impacted / Not Benefitted Feasible and Reaso I-94 Modernization Project DSERS Appendict Condise and Point analysis Technical Memorandum Noise Barriers Analyzed Feasible and Reasonable 66 Setback Alternative Common Noise Environment

Note: Each TNM receiver can represent multiple receivers. Appendix C provides details of the number of receptors per receiver shown on this exhibit.

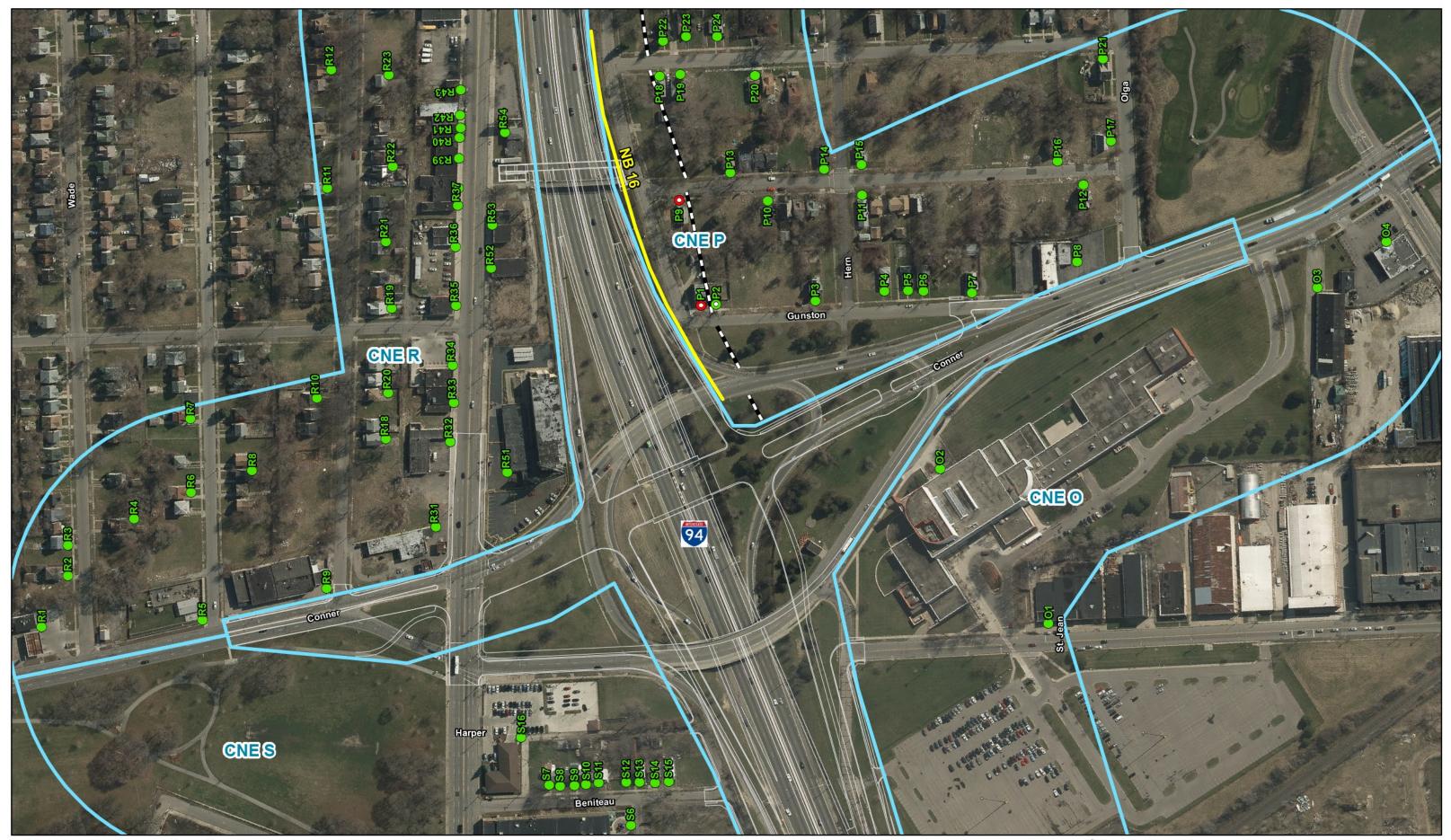
Traffic Noise Study I-94 Detroit Modernization Project Detroit, Michigan

Figure 4.18

✵ 200

400

Feet



Legend Michigan Department of Transportation **TNM Receivers**

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Field Sites Impacted / Benefitted Noise Barriers Analy Not Impacted / Not Benefitted Feasible and Reaso I-94 Modernization Project DSER Appendix C. Noise Barrier Analy Noise Barriers Analyzed Feasible and Reasonable 66 Setback Alternative Common Noise Environment

Note: Each TNM receiver can represent multiple receivers. Appendix C provides details of the number of receptors per receiver shown on this exhibit.

✻

Traffic Noise Study I-94 Detroit Modernization Project Detroit, Michigan

Figure 4.19

Feet

200

400

Appendix B: Calibration Certificates



N SIII

ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1 ACCREDITED by NVLAP (an ILAC MRA signatory)



Calibration Certificate No.40684

Microphone	Date Calibrated: 5/	7/2018 Cal L	Due:
1225	Status:	Received	Sent
Norsonic	In tolerance:	Х	Х
52318	Out of tolerance:		
	See comments:		
	Contains non-accre	edited tests:	res <u>X</u> No
HNTB Corporation 414-359-2300/414-359-2314			
	1225 Norsonic 52318 HNTB Corporation	1225Status:NorsonicIn tolerance:52318Out of tolerance:See comments:See comments:Contains non-accreHNTB CorporationAddress:11414	1225 Status: Received Norsonic In tolerance: X 52318 Out of tolerance: See comments: Contains non-accredited tests: Y HNTB Corporation Address: 11414 West Park Place

Tested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 2/25/2015

Instrumentation used for calibration: N-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31061	Jul 28, 2017	Scantek, Inc./ NVLAP	Jul 28, 2018
DS-360-SRS	Function Generator	88077	Sep 15, 2016	ACR Env./ A2LA	Sep 15, 2018
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Sep 20, 2017	ACR Env./ A2LA	Sep 20, 2018
HM30-Thommen	Meteo Station	1040170/39633	Oct 25, 2017	ACR Env./ A2LA	Oct 25, 2018
PC Program 1017 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1253-Norsonic	Calibrator	28326	Nov 10, 2017	Scantek, Inc./ NVLAP	Nov 10, 2018
1203-Norsonic	Preamplifier	92268	Oct 18, 2017	Scantek, Inc./ NVLAP	Oct 18, 2018
4180-Brüel&Kjær	Microphone	2246115	Oct 24, 2017	DANAK / DPLA	Oct 24, 2019

Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) and NIST (USA)

Calibrated by:	Jeremy Gotwalt	Authorized signatory:	Steven E Marshall
Signature	aut Chilton	Signature	Steven EMpeshall
Date	5/7/18	Date	3/8/18

Calibration Certificates or Test Reports shall not be reproduced, except in full, without written approval of the laboratory. This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.

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Page 1 of 2



ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1 ACCREDITED by NVLAP (an ILAC MRA signatory)



Calibration Certificate No.40683

Instrument:	Sound Level Meter
Model:	118
Manufacturer:	Norsonic
Serial number:	31483
Tested with:	Microphone 1225 s/n 52318
	Preamplifier 1206 s/n 30522
Type (class):	1
Customer:	HNTB Corporation
Tel/Fax:	414-359-2300 / 414-359-2314

Status:	Received	Sent
In tolerance:	Х	X
Out of tolerance	e:	
See comments:	A Your Marin	Service Services
Contains non-a	ccredited tests: _	_Yes X_No
Calibration serv	vice: Basic X	Standard
Address: 114	14 West Park Pla	ace, Suite 300

Milwaukee, WI 53224

Tested in accordance with the following procedures and standards: Calibration of Sound Level Meters, Scantek Inc., Rev. 6/26/2015 SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

Instrumentation used for calibration: Nor-1504 Norsonic Test System:

	Description	c /ai	Cal Data	Traceability evidence	Cal. Due
Instrument - Manufacturer		S/N	Cal. Date	Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31061	Jul 28, 2017	Scantek, Inc./ NVLAP	Jul 28, 2018
DS-360-SRS	Function Generator	88077	Sep 15, 2016	ACR Env./ A2LA	Sep 15, 2018
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Sep 20, 2017	ACR Env./ A2LA	Sep 20, 2018
HM30-Thommen	Meteo Station	1040170/39633	Oct 25, 2017	ACR Env./ A2LA	Oct 25, 2018
PC Program 1019 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	
1251-Norsonic	Calibrator	30878	Nov 10, 2017	Scantek, Inc./ NVLAP	Nov 10, 2018

Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK).

Environmental conditions:

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
22.6	100.26	43.1

Calibrated by:	Jeremy Gotwalt	Authorized signatory:	Steven E. Marshall
Signature	hund Plation	Signature	Steron E Marshal
Date	5/7/18	Date	5/8/2018

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Page 1 of 2



ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1 ACCREDITED by NVLAP (an ILAC MRA signatory)



Calibration Certificate No.40682

Instrument: Model: Manufacturer: Serial number: Class (IEC 60942): Barometer type: Barometer s/n: Customer: Tel/Fax: Acoustical Calibrator 1251 Norsonic 30825 1 HNTB Corporation 414-359-2300 / 414-359-2314

In tolerance			
In colerance	2:	X	X
Out of tole	rance:	1	A. 6.14
See comme	ents:	a bis	1. 11/2
Contains no	on-accredite	d tests:Ye	s X No

Tested in accordance with the following procedures and standards: Calibration of Acoustical Calibrators, Scantek Inc., Rev. 10/1/2010

Instrumentation used for calibration: Nor-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
	Description S/N	5/14			
483B-Norsonic	SME Cal Unit	31061	Jul 28, 2017	Scantek, Inc./ NVLAP	Jul 28, 2018
DS-360-SRS	Function Generator	88077	Sep 15, 2016	ACR Env./ A2LA	Sep 15, 2018
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Sep 20, 2017	ACR Env./ A2LA	Sep 20, 2018
HM30-Thommen	Meteo Station	1040170/39633	Oct 25, 2017	ACR Env./ A2LA	Oct 25, 2018
140-Norsonic	Real Time Analyzer	1403978	Mar 22, 2018	Scantek, Inc. / NVLAP	Mar 22, 2019
PC Program 1018 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	
4192-Brüel&Kjær	Microphone	2854675	Nov 11, 2017	Scantek, Inc. / NVLAP	Nov 11, 2018
1203-Norsonic	Preamplifier	92268	Oct 18, 2017	Scantek, Inc./ NVLAP	Oct 18, 2018

Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK)

Calibrated by:	Jeremy Gotwalt	Authorized signatory:	Steven E. Marshall
Signature	wit thous	Signature	Storen E. Marshall
Date	5/7/18	Date	5/8/2018

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Page 1 of 2

Appendix C: Impact Analysis Results, dB(A) L_{eq(1h)}

Table 9: Design Hour Noise Levels, dBA Leq(1h)

	Noise Abatement Criteria (NAC)				Noise Level dB(A) L _{eg} (1h)				
Receiver ID	Description	Catagory	Criteria	Receptors	Existing	Future Build Alternative			
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)	
A1	INDUSTRIAL	F	-	0	74.4	73.5	-0.9	No	
A2	PICNIC TABLE	С	67	1	49.2	48.7	-0.5	No	
A3	INDUSTRIAL	F	-	0	72.6	67.7	-4.9	No	
B1	RESTAURANT	E	72	1	57.8	57.4	-0.4	No	
B2.1	RESIDENTIAL	В	67	2	74.4	72.5	-1.9	Yes	
B2.2	RESIDENTIAL	В	67	2	71.2	67.9	-3.3	Yes	
B3	RESIDENTIAL	В	67	2	66.4	63.5	-2.9	No	
B4	RESIDENTIAL	В	67	1	58.3	57.9	-0.4	No	
B5	RESIDENTIAL	В	67	2	69.5	67.5	-2.0	Yes	
B6	RESIDENTIAL	В	67	1	59.8	59.4	-0.4	No	
B7	RESIDENTIAL	В	67	1	60.6	60.2	-0.4	No	
B8	RESIDENTIAL	В	67	2	58.8	59.0	0.2	No	
B9	RESIDENTIAL	В	67	5	57.0	57.6	0.6	No	
B10	VACANT	G	-	0	68.8	68.3	-0.5	No	
B11	RESIDENTIAL	В	67	2	56.1	57.5	1.4	No	
B12	RESIDENTIAL	В	67	1	64.0	64.9	0.9	No	
B13	RESIDENTIAL	В	67	1	60.5	61.8	1.3	No	
B14	INDUSTRIAL	F	-	0	66.0	66.8	0.8	No	
B15	INDUSTRIAL	F	-	0	70.7	72.9	2.2	No	
B16	INDUSTRIAL	F	-	0	59.0	60.1	1.1	No	
B18	RESIDENTIAL	В	67	1	59.4	60.0	0.6	No	
B19	RESIDENTIAL	В	67	1	69.2	68.9	-0.3	Yes	
B20	RESIDENTIAL	В	67	2	55.7	56.4	0.7	No	
B21	RESIDENTIAL	В	67	2	70.9	68.2	-2.7	Yes	
B22	RESIDENTIAL	В	67	2	58.9	58.4	-0.5	No	
B23	RESIDENTIAL	В	67	3	55.8	54.8	-1.0	No	
B24	RESIDENTIAL	В	67	2	54.6	53.6	-1.0	No	

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)				Noise Level dB(A) L _{eq} (1h)				
Receiver ID			Criteria	Receptors		Future Build Alternative			
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)	
B25	RESIDENTIAL	В	67	2	71.9	67.4	-4.5	Yes	
B26	VACANT	G	-	0	65.8	64.0	-1.8	No	
B27	VACANT	G	-	0	56.4	56.3	-0.1	No	
B28.1	RESIDENTIAL	В	67	1	54.6	54.0	-0.6	No	
B28.2	RESIDENTIAL	В	67	1	57.5	56.5	-1.0	No	
B29.1	RESIDENTIAL	В	67	1	53.0	52.8	-0.2	No	
B29.2	RESIDENTIAL	В	67	1	55.9	55.3	-0.6	No	
B30.1	RESIDENTIAL	В	67	3	51.6	51.4	-0.2	No	
B30.2	RESIDENTIAL	В	67	4	54.4	53.7	-0.7	No	
B31.1	RESIDENTIAL	В	67	4	49.2	49.3	0.1	No	
B31.2	RESIDENTIAL	В	67	3	51.2	51.0	-0.2	No	
B32.1	RESIDENTIAL	В	67	2	52.5	52.2	-0.3	No	
B32.2	RESIDENTIAL	В	67	2	54.2	53.7	-0.5	No	
B32.3	RESIDENTIAL	В	67	3	53.3	53.0	-0.3	No	
B33	RESIDENTIAL	В	67	1	61.6	61.1	-0.5	No	
B34	RESIDENTIAL	В	67	1	60.1	59.7	-0.4	No	
B35.1	RESIDENTIAL	В	67	1	57.4	56.6	-0.8	No	
B35.2	RESIDENTIAL	В	67	1	56.9	55.5	-1.4	No	
B36.1	RESIDENTIAL	В	67	1	56.2	55.1	-1.1	No	
B36.2	RESIDENTIAL	В	67	1	58.7	57.0	-1.7	No	
B37.1	RESIDENTIAL	В	67	1	54.9	53.9	-1.0	No	
B37.2	RESIDENTIAL	В	67	1	56.7	55.7	-1.0	No	
B38.1	RESIDENTIAL	В	67	2	52.5	51.6	-0.9	No	
B38.2	RESIDENTIAL	В	67	2	54.0	53.3	-0.7	No	
B39	RESIDENTIAL	В	67	4	50.1	49.7	-0.4	No	
B40	VACANT	G	-	0	69.0	62.0	-7.0	No	
B41	MAINTENANCE FACILITY	F	-	0	59.2	57.3	-1.9	No	
B42	INDUSTRIAL	F	-	0	54.4	54.2	-0.2	No	

Boldface indicates noise levels that approach, equal or exceed the NAC and create an impact.
Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)				Noise Level dB(A) L _{eq} (1h)				
Receiver ID			Criteria	Receptors		Future Build Alternative			
10	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)	
B43	PICNIC TABLE	С	67	1	51.5	51.0	-0.5	No	
C1	ACTIVE SPORT AREA	С	67	1	67.1	63.6	-3.5	No	
C1.1	ACTIVE SPORT AREA	С	67	1	63.6	59.9	-3.7	No	
C1.2	ACTIVE SPORT AREA	С	67	1	57.3	53.0	-4.3	No	
C1.3	ACTIVE SPORT AREA	С	67	1	70.1	64.9	-5.2	No	
C2	ACTIVE SPORT AREA	С	67	1	69.0	64.1	-4.9	No	
C3	ACTIVE SPORT AREA	С	67	1	68.2	62.3	-5.9	No	
D4.2	RESIDENTIAL	В	67	2	54.8	50.0	-4.8	No	
D4.3	RESIDENTIAL	В	67	2	57.2	52.4	-4.8	No	
D4.4	RESIDENTIAL	В	67	2	59.0	54.0	-5.0	No	
D4.5	RESIDENTIAL	В	67	2	60.2	55.1	-5.1	No	
D4.6	RESIDENTIAL	В	67	2	61.3	56.4	-4.9	No	
D4.7	RESIDENTIAL	В	67	2	62.2	57.7	-4.5	No	
D4.8	RESIDENTIAL	В	67	2	63.1	59.7	-3.4	No	
D5.2	RESIDENTIAL	В	67	2	54.3	49.5	-4.8	No	
D5.3	RESIDENTIAL	В	67	2	57.5	52.9	-4.6	No	
D5.4	RESIDENTIAL	В	67	2	59.7	54.5	-5.2	No	
D5.5	RESIDENTIAL	В	67	2	60.8	55.7	-5.1	No	
D5.6	RESIDENTIAL	В	67	2	61.9	56.8	-5.1	No	
D5.7	RESIDENTIAL	В	67	2	62.9	58.3	-4.6	No	
D5.8	RESIDENTIAL	В	67	2	63.6	60.3	-3.3	No	
D6.2	RESIDENTIAL	В	67	2	52.4	50.2	-2.2	No	
D6.3	RESIDENTIAL	В	67	2	57.9	54.0	-3.9	No	
D6.4	RESIDENTIAL	В	67	2	60.1	55.2	-4.9	No	
D6.5	RESIDENTIAL	В	67	2	61.4	56.4	-5.0	No	
D6.6	RESIDENTIAL	В	67	2	62.5	57.8	-4.7	No	
D6.7	RESIDENTIAL	В	67	2	63.5	59.9	-3.6	No	
D6.8	RESIDENTIAL	В	67	2	64.7	61.1	-3.6	No	

Boldface indicates noise levels that approach, equal or exceed the NAC and create an impact.	or exceed the NAC and create an impact.	Boldface indicates noise levels that approach
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NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)				Noise Level dB(A) L _{eq} (1h)			
Receiver ID			Criteria L _{eq} (h)	Receptors		Future Build Alternative		
10	Description	Category			Existing	NL	Change from Existing	Impact (Yes/No)
D11.2	RESIDENTIAL	В	67	2	47.5	44.2	-3.3	No
D11.3	RESIDENTIAL	В	67	2	52.0	47.6	-4.4	No
D11.4	RESIDENTIAL	В	67	2	53.4	48.7	-4.7	No
D11.5	RESIDENTIAL	В	67	2	54.3	50.0	-4.3	No
D11.6	RESIDENTIAL	В	67	2	55.2	51.4	-3.8	No
D11.7	RESIDENTIAL	В	67	2	56.4	53.1	-3.3	No
D11.8	RESIDENTIAL	В	67	2	58.3	55.5	-2.8	No
D12.2	RESIDENTIAL	В	67	2	46.6	44.1	-2.5	No
D12.3	RESIDENTIAL	В	67	2	51.4	47.5	-3.9	No
D12.4	RESIDENTIAL	В	67	2	53.3	49.0	-4.3	No
D12.5	RESIDENTIAL	В	67	2	54.2	50.3	-3.9	No
D12.6	RESIDENTIAL	В	67	2	55.6	51.8	-3.8	No
D12.7	RESIDENTIAL	В	67	2	56.8	53.4	-3.4	No
D12.8	RESIDENTIAL	В	67	2	58.4	55.6	-2.8	No
D13	RETAIL	F	-	0	66.5	62.7	-3.8	No
D14	RESIDENTIAL	В	67	1	54.8	50.2	-4.6	No
D15	RESIDENTIAL	В	67	1	55.7	50.8	-4.9	No
D16	RESIDENTIAL	В	67	1	57.1	51.4	-5.7	No
D17	RESIDENTIAL	В	67	1	60.8	55.2	-5.6	No
D18	RESIDENTIAL	В	67	1	62.8	57.8	-5.0	No
D19	RESIDENTIAL	В	67	1	67.0	61.5	-5.5	No
D21	RESIDENTIAL	В	67	3	49.5	46.3	-3.2	No
D23.1	RESIDENTIAL	В	67	2	73.8	70.9	-2.9	Yes
D23.2	RESIDENTIAL	В	67	2	74.2	74.0	-0.2	Yes
D25.1	RESIDENTIAL	В	67	2	73.4	69.6	-3.8	Yes
D25.2	RESIDENTIAL	В	67	2	74.0	73.6	-0.4	Yes
D26	RESIDENTIAL	В	67	3	50.8	47.6	-3.2	No
D28.1	RESIDENTIAL	В	67	2	55.5	52.0	-3.5	No

Boldface indicates noise levels that approach, equal or exceed the NAC and create an impact.	
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NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)				Noise Level dB(A) L _{eq} (1h)				
Receiver ID			Criteria	Receptors		Future Build Alternative			
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)	
D28.2	RESIDENTIAL	В	67	2	58.6	54.7	-3.9	No	
D29.1	RESIDENTIAL	В	67	2	61.2	54.6	-6.6	No	
D29.2	RESIDENTIAL	В	67	2	63.7	57.4	-6.3	No	
D30	RESIDENTIAL	В	67	2	59.5	55.8	-3.7	No	
D31	RESIDENTIAL	В	67	2	66.9	63.2	-3.7	No	
D33	SCHOOL	С	67	1	58.8	55.7	-3.1	No	
D34	PLAYGROUND	С	67	1	52.5	50.9	-1.6	No	
D35	PLAYGROUND	С	67	1	55.4	53.6	-1.8	No	
D36	ACTIVE SPORT AREA	С	67	1	70.7	69.1	-1.6	Yes	
D37	RESIDENTIAL	В	67	1	52.7	50.9	-1.8	No	
D38	PICNIC TABLE	С	67	1	60.6	59.2	-1.4	No	
D39	RESIDENTIAL	В	67	2	54.2	53.0	-1.2	No	
D40	RESIDENTIAL	В	67	3	55.7	54.8	-0.9	No	
D41	RESIDENTIAL	В	67	3	56.3	55.5	-0.8	No	
D42	RESIDENTIAL	В	67	3	58.7	57.7	-1.0	No	
D43	RESIDENTIAL	В	67	3	59.3	58.2	-1.1	No	
D44	RESIDENTIAL	В	67	3	63.6	62.0	-1.6	No	
D45	RESIDENTIAL	В	67	3	69.6	68.2	-1.4	Yes	
D46	RESIDENTIAL	В	67	4	39.9	38.5	-1.4	No	
D47	RESIDENTIAL	В	67	3	53.1	49.6	-3.5	No	
D48	RESIDENTIAL	В	67	2	56.2	51.9	-4.3	No	
D49	RESIDENTIAL	В	67	2	61.3	56.3	-5.0	No	
D50	RESIDENTIAL	В	67	3	70.9	69.9	-1.0	Yes	
D51	RESIDENTIAL	В	67	3	53.1	49.8	-3.3	No	
D52	RESIDENTIAL	В	67	2	57.4	53.3	-4.1	No	
D53	RESIDENTIAL	В	67	2	66.2	63.9	-2.3	No	
D54	RESIDENTIAL	В	67	3	73.0	71.3	-1.7	Yes	
D55	RESIDENTIAL	В	67	1	51.6	49.0	-2.6	No	

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)				Noise Level dB(A) L _{eq} (1h)				
Receiver ID			Criteria	Receptors		Future Build Alternative			
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)	
D56	RESIDENTIAL	В	67	1	52.2	49.5	-2.7	No	
D57	RESIDENTIAL	В	67	1	55.1	51.7	-3.4	No	
D58	RESIDENTIAL	В	67	1	54.2	51.0	-3.2	No	
D59	RESIDENTIAL	В	67	1	51.4	47.4	-4.0	No	
D60	RESIDENTIAL	В	67	3	59.1	55.2	-3.9	No	
D61	RESIDENTIAL	В	67	2	58.7	53.7	-5.0	No	
D62	RESIDENTIAL	В	67	2	63.2	57.3	-5.9	No	
D63	RESIDENTIAL	В	67	3	74.3	73.0	-1.3	Yes	
D64	RESIDENTIAL	В	67	4	47.7	44.0	-3.7	No	
D65	RESIDENTIAL	В	67	3	62.8	59.0	-3.8	No	
D66	RESIDENTIAL	В	67	3	67.7	62.6	-5.1	No	
D67	RESIDENTIAL	В	67	2	61.3	55.7	-5.6	No	
D68	RESIDENTIAL	В	67	3	67.9	61.3	-6.6	No	
D69	RESIDENTIAL	В	67	2	47.6	43.6	-4.0	No	
D70	RESIDENTIAL	В	67	2	54.1	48.6	-5.5	No	
D71	RESIDENTIAL	В	67	3	68.1	61.0	-7.1	No	
D72	RESIDENTIAL	В	67	1	49.6	44.9	-4.7	No	
D73-1	RESIDENTIAL	В	67	2	51.5	46.1	-5.4	No	
D73-2	RESIDENTIAL	В	67	3	55.5	49.6	-5.9	No	
D74	PICNIC TABLE	С	67	1	55.7	49.7	-6.0	No	
D75	RESIDENTIAL	В	67	1	68.2	61.7	-6.5	No	
D76	RESIDENTIAL	В	67	5	46.7	44.5	-2.2	No	
D77	RESIDENTIAL	В	67	2	49.9	45.8	-4.1	No	
D78	RESIDENTIAL	В	67	1	54.1	48.3	-5.8	No	
D79	RESIDENTIAL	В	67	1	56.1	49.6	-6.5	No	
D80	RESIDENTIAL	В	67	1	60.9	54.1	-6.8	No	
D81	RESIDENTIAL	В	67	1	74.3	70.8	-3.5	Yes	
D82	RESIDENTIAL	В	67	1	52.2	48.1	-4.1	No	

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)				Noise Level dB(A) L _{eq} (1h)				
Receiver ID			Criteria	Receptors		Future Build Alternative			
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)	
D83	RESIDENTIAL	В	67	2	51.2	46.0	-5.2	No	
D84	RESIDENTIAL	В	67	3	57.4	51.5	-5.9	No	
D85	RESIDENTIAL	В	67	2	58.2	51.5	-6.7	No	
D86	RESIDENTIAL	В	67	2	62.6	55.8	-6.8	No	
D87	RESIDENTIAL	В	67	3	68.6	63.3	-5.3	No	
D88	RESIDENTIAL	В	67	2	47.8	43.9	-3.9	No	
D89	RESIDENTIAL	В	67	3	43.7	42.4	-1.3	No	
D90	RESIDENTIAL	В	67	3	52.7	46.5	-6.2	No	
D91	RESIDENTIAL	В	67	3	54.8	48.8	-6.0	No	
D92	RESIDENTIAL	В	67	3	70.5	64.2	-6.3	No	
D93-1	RESIDENTIAL	В	67	2	57.1	50.9	-6.2	No	
D93-2	RESIDENTIAL	В	67	6	48.0	42.9	-5.1	No	
D94-1	RESIDENTIAL	В	67	2	67.6	58.6	-9.0	No	
D94-2	RESIDENTIAL	В	67	6	53.5	46.8	-6.7	No	
D95	RESIDENTIAL	В	67	3	57.7	51.4	-6.3	No	
D96	RESIDENTIAL	В	67	3	57.1	49.8	-7.3	No	
D97	RESIDENTIAL	В	67	3	58.6	50.9	-7.7	No	
D98	RESIDENTIAL	В	67	3	67.0	59.1	-7.9	No	
D99	RESIDENTIAL	В	67	3	63.5	55.8	-7.7	No	
D100	RESIDENTIAL	В	67	3	67.0	60.1	-6.9	No	
D101	RESIDENTIAL	В	67	12	55.6	49.5	-6.1	No	
D102	RESIDENTIAL	В	67	3	37.8	41.5	3.7	No	
D103	RESIDENTIAL	В	67	3	59.1	53.1	-6.0	No	
D104	RESIDENTIAL	В	67	3	60.6	56.9	-3.7	No	
D105	RESIDENTIAL	В	67	3	62.8	57.0	-5.8	No	
D106	RESIDENTIAL	В	67	3	63.3	57.6	-5.7	No	
D107	RESIDENTIAL	В	67	3	71.9	65.4	-6.5	No	
D108	PICNIC TABLE	С	67	1	61.5	57.2	-4.3	No	

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)				Noise Level dB(A) L₌q(1h)				
Receiver ID			Criteria	Receptors				-uture Build Alternative	
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)	
D109	RESIDENTIAL	В	67	1	62.9	58.1	-4.8	No	
D110	RESIDENTIAL	В	67	3	54.3	48.9	-5.4	No	
D111	RESIDENTIAL	В	67	3	62.7	55.5	-7.2	No	
D112	RESIDENTIAL	В	67	3	64.5	57.8	-6.7	No	
D113	RESIDENTIAL	В	67	3	68.9	63.8	-5.1	No	
D114	RESIDENTIAL	В	67	12	51.5	50.5	-1.0	No	
D115	RESIDENTIAL	В	67	3	53.7	47.8	-5.9	No	
D116	RESIDENTIAL	В	67	3	56.2	54.1	-2.1	No	
D117	RESIDENTIAL	В	67	3	56.1	53.7	-2.4	No	
D118	RESIDENTIAL	В	67	3	55.8	54.5	-1.3	No	
D119	RESIDENTIAL	В	67	1	62.7	58.4	-4.3	No	
D120	RESIDENTIAL	В	67	1	69.5	65.2	-4.3	No	
D121	RESIDENTIAL	В	67	1	40.1	40.0	-0.1	No	
E1	SCHOOL (NO EXTERIOR USE)	D	52	1	47.9	44.8	-3.1	No	
E2	SCHOOL (NO EXTERIOR USE)	D	52	1	48.5	44.8	-3.7	No	
E3	SCHOOL	С	67	1	50.0	44.5	-5.5	No	
E4.1	RESIDENTIAL	В	67	2	58.5	53.9	-4.6	No	
E4.2	RESIDENTIAL	В	67	2	60.7	56.6	-4.1	No	
E4.3	RESIDENTIAL	В	67	2	64.1	60.1	-4.0	No	
E5.1	RESIDENTIAL	В	67	2	54.2	49.1	-5.1	No	
E5.2	RESIDENTIAL	В	67	2	56.0	51.7	-4.3	No	
E5.3	RESIDENTIAL	В	67	2	58.5	54.5	-4.0	No	
E6.1	RESIDENTIAL	В	67	2	49.6	44.8	-4.8	No	
E6.2	RESIDENTIAL	В	67	2	50.9	47.1	-3.8	No	
E6.3	RESIDENTIAL	В	67	2	52.2	48.7	-3.5	No	
E7.1	RESIDENTIAL	В	67	2	69.6	66.2	-3.4	Yes	
E7.2	RESIDENTIAL	В	67	2	73.3	71.0	-2.3	Yes	
E7.3	RESIDENTIAL	В	67	2	74.0	73.2	-0.8	Yes	

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)					Noise Level dB(A) L _{eq} (1h)			
Receiver ID			Criteria	Receptors		Future Build Alternative			
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)	
E10.1	RESIDENTIAL	В	67	2	70.6	67.9	-2.7	Yes	
E10.2	RESIDENTIAL	В	67	2	73.5	70.9	-2.6	Yes	
E10.3	RESIDENTIAL	В	67	2	74.2	73.1	-1.1	Yes	
E12.1	RESIDENTIAL	В	67	2	68.1	64.3	-3.8	No	
E12.2	RESIDENTIAL	В	67	2	68.9	66.3	-2.6	Yes	
E12.3	RESIDENTIAL	В	67	2	69.7	68.1	-1.6	Yes	
E13.1	RESIDENTIAL	В	67	2	58.3	55.9	-2.4	No	
E13.2	RESIDENTIAL	В	67	2	62.0	58.7	-3.3	No	
E13.3	RESIDENTIAL	В	67	2	64.2	60.2	-4.0	No	
E14	OFFICE	E	72	1	54.2	52.4	-1.8	No	
E15	PLACE OF WORSHIP	С	67	1	57.1	55.0	-2.1	No	
E16	RESIDENTIAL	В	67	8	55.5	53.5	-2.0	No	
E17	RESIDENTIAL	В	67	8	50.6	48.2	-2.4	No	
E18	RESIDENTIAL	В	67	6	53.1	51.4	-1.7	No	
E19	RESIDENTIAL	В	67	2	55.1	53.0	-2.1	No	
E20	RESIDENTIAL	В	67	2	52.0	49.8	-2.2	No	
E21	RESIDENTIAL	В	67	2	48.0	46.6	-1.4	No	
E22	RESIDENTIAL	В	67	2	49.8	48.1	-1.7	No	
E23	RESIDENTIAL	В	67	2	53.3	51.0	-2.3	No	
E24	RESIDENTIAL	В	67	2	51.3	49.5	-1.8	No	
E25	RESIDENTIAL	В	67	2	67.9	65.7	-2.2	No	
E26	RESIDENTIAL	В	67	2	62.5	60.4	-2.1	No	
E27	PLAYGROUND	С	67	1	52.0	50.1	-1.9	No	
E28	RESIDENTIAL	В	67	5	49.4	47.3	-2.1	No	
E29	RESIDENTIAL	В	67	2	47.3	45.1	-2.2	No	
E30	RESIDENTIAL	В	67	2	67.3	65.9	-1.4	No	
E31	RESIDENTIAL	В	67	2	59.7	57.8	-1.9	No	
E32	RESIDENTIAL	В	67	2	62.5	61.0	-1.5	No	

Boldface indicate	s noise levels that approacl	h, equal or exceed the NAC a	nd create an impact.
Dolutace indicate	3 110130 10 0013 11121 20010	n, equal of execced the NAO a	ina create an impact.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)						Noise Level dB(A) L _{eq} (1h)		
Receiver ID			Criteria	Receptors		Future Build Alternative			
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)	
E33	RESIDENTIAL	В	67	4	48.5	46.5	-2.0	No	
E34	RESIDENTIAL	В	67	2	43.9	42.3	-1.6	No	
E35	RESIDENTIAL	В	67	2	42.8	40.8	-2.0	No	
E36	RESIDENTIAL	В	67	3	49.1	46.1	-3.0	No	
E37	RESIDENTIAL	В	67	1	68.6	66.4	-2.2	Yes	
E38	RESIDENTIAL	В	67	2	64.5	62.0	-2.5	No	
E39	RESIDENTIAL	В	67	2	60.6	58.4	-2.2	No	
E40	RESIDENTIAL	В	67	2	57.5	55.0	-2.5	No	
E41	PICNIC AREA	С	67	1	52.0	49.9	-2.1	No	
E42	RESIDENTIAL	В	67	2	54.4	51.2	-3.2	No	
E43	RESIDENTIAL	В	67	5	51.2	49.4	-1.8	No	
E44	RESIDENTIAL	В	67	1	49.9	47.5	-2.4	No	
E45	RESIDENTIAL	В	67	2	68.0	66.0	-2.0	Yes	
E46	RESIDENTIAL	В	67	2	65.3	63.0	-2.3	No	
E47	RESIDENTIAL	В	67	2	61.5	59.1	-2.4	No	
E48	RESIDENTIAL	В	67	2	53.1	48.9	-4.2	No	
E49	RESIDENTIAL	В	67	2	43.5	41.3	-2.2	No	
E50	RESIDENTIAL	В	67	2	42.3	39.4	-2.9	No	
E51.1	RESIDENTIAL	В	67	2	44.3	42.4	-1.9	No	
E51.2	RESIDENTIAL	В	67	2	47.6	45.1	-2.5	No	
E52.1	RESIDENTIAL	В	67	2	45.0	43.1	-1.9	No	
E52.2	RESIDENTIAL	В	67	2	47.3	45.0	-2.3	No	
E53	RESIDENTIAL	В	67	2	46.5	44.3	-2.2	No	
E54	PARK	С	67	1	52.1	49.3	-2.8	No	
E55	RESIDENTIAL	В	67	1	68.9	66.6	-2.3	Yes	
E56	RESIDENTIAL	В	67	1	67.4	65.0	-2.4	No	
E57	RESIDENTIAL	В	67	1	65.8	63.4	-2.4	No	
E58	RESIDENTIAL	В	67	1	67.2	64.3	-2.9	No	

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)					Noise Level dB(A) Leq(1h)			
Receiver ID			Criteria	Receptors		Future Build Alternative			
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)	
E59	RESIDENTIAL	В	67	1	70.8	67.8	-3.0	Yes	
E60	RESIDENTIAL	В	67	2	62.3	58.8	-3.5	No	
E61	RESIDENTIAL	В	67	4	60.7	57.3	-3.4	No	
E62	RETAIL	F	-	0	54.1	51.2	-2.9	No	
E63	RESIDENTIAL	В	67	1	68.8	65.1	-3.7	No	
E64	RESIDENTIAL	В	67	2	66.5	63.4	-3.1	No	
E65	RESIDENTIAL	В	67	2	64.1	60.6	-3.5	No	
E66.1	RESIDENTIAL	В	67	1	61.0	57.6	-3.4	No	
E66.2	RESIDENTIAL	В	67	2	64.3	59.8	-4.5	No	
E67	RESIDENTIAL	В	67	12	57.5	54.2	-3.3	No	
E68	RESIDENTIAL	В	67	1	53.8	50.9	-2.9	No	
E69	RESIDENTIAL	В	67	1	60.0	56.1	-3.9	No	
E70	RESIDENTIAL	В	67	1	70.4	66.5	-3.9	Yes	
E71	RESIDENTIAL	В	67	1	65.2	61.1	-4.1	No	
E72	RESIDENTIAL	В	67	1	64.0	59.9	-4.1	No	
E73	RESIDENTIAL	В	67	2	61.7	57.3	-4.4	No	
E74	RESIDENTIAL	В	67	2	60.1	56.0	-4.1	No	
E75	RESIDENTIAL	В	67	1	61.6	57.2	-4.4	No	
E76	PARK	С	67	1	72.5	69.5	-3.0	Yes	
E77	RESIDENTIAL	В	67	1	61.3	56.8	-4.5	No	
E78	PICNIC TABLE	С	67	1	55.7	50.7	-5.0	No	
E79	RESTAURANT	E	72	1	53.9	50.9	-3.0	No	
E80.1	RESIDENTIAL	В	67	1	58.4	54.1	-4.3	No	
E80.2	RESIDENTIAL	В	67	1	61.4	56.7	-4.7	No	
E81	SCHOOL	С	67	1	66.6	64.1	-2.5	No	
E82	RESIDENTIAL	В	67	2	53.1	51.4	-1.7	No	
E83	PLAYGROUND	С	67	1	63.4	60.7	-2.7	No	
E84	PLAYGROUND	С	67	1	61.6	59.9	-1.7	No	

Boldface indicates noise levels that approach, equal or exceed the NAC and create an impact.
Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)				Noise Level dB(A) L _{eq} (1h)			
Receiver ID			Criteria	Receptors		Future Build Alternative		
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)
E85	SCHOOL (NO EXTERIOR USE)	D	52	1	46.1	46.6	0.5	No
E86	SCHOOL (NO EXTERIOR USE)	D	52	1	45.9	47.5	1.6	No
F1	SCHOOL (NO EXTERIOR USE)	D	52	1	49.4	45.0	-4.4	No
F2	PARK	С	67	1	55.9	53.6	-2.3	No
F3	SCHOOL	С	67	1	56.9	51.9	-5.0	No
F4	PLACE OF WORSHIP (NO EXTERIOR USE)	D	52	1	49.3	47.9	-1.4	No
F5	PARKING GARAGE	F	-	0	70.4	64.1	-6.3	No
F7	SCHOOL	С	67	1	59.4	56.2	-3.2	No
F8	SCHOOL	С	67	1	61.2	58.4	-2.8	No
F9	PARK	С	67	1	56.4	53.9	-2.5	No
F10	SCHOOL	С	67	1	61.6	60.2	-1.4	No
F11	PARKING GARAGE	F	-	0	67.0	63.8	-3.2	No
F12	RETAIL	F	-	0	71.3	71.6	0.3	No
F13	RESTAURANT	E	72	1	67.1	66.6	-0.5	No
F14	SCHOOL	С	67	1	56.0	52.3	-3.7	No
F15	INDUSTRIAL	F	-	0	62.6	54.9	-7.7	No
F16	RESIDENTIAL	В	67	1	64.0	60.9	-3.1	No
F17	RESIDENTIAL	В	67	1	61.5	57.4	-4.1	No
F18	RESIDENTIAL	В	67	1	58.8	54.5	-4.3	No
F19	RESIDENTIAL	В	67	1	58.8	59.7	0.9	No
F20	RETAIL	F	-	0	48.0	46.5	-1.5	No
F21	RESIDENTIAL	В	67	1	53.1	54.3	1.2	No
F22	VACANT	G	-	0	53.8	47.4	-6.4	No
G1.1	RESIDENTIAL	В	67	2	55.9	56.6	0.7	No
G1.2	RESIDENTIAL	В	67	2	60.0	59.8	-0.2	No
G2.1	RESIDENTIAL	В	67	4	56.2	57.0	0.8	No
G2.2	RESIDENTIAL	В	67	4	60.0	60.1	0.1	No
G2.3	RESIDENTIAL	В	67	4	61.9	62.1	0.2	No

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)					Noise Level dB(A) L _{eq} (1h)			
Receiver ID			Criteria	Receptors		Future Build Alternative			
12	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)	
G4	RETAIL	F	-	0	57.0	57.9	0.9	No	
G5.1	RESIDENTIAL	В	67	1	61.9	65.5	3.6	No	
G5.2	RESIDENTIAL	В	67	1	64.9	67.5	2.6	Yes	
G6	RESIDENTIAL	В	67	12	51.2	51.7	0.5	No	
G7.1	RESIDENTIAL	В	67	2	50.7	51.2	0.5	No	
G7.2	RESIDENTIAL	В	67	2	52.4	53.8	1.4	No	
G7.3	RESIDENTIAL	В	67	2	54.1	55.2	1.1	No	
G8.1	RESIDENTIAL	В	67	1	61.1	65.4	4.3	No	
G8.2	RESIDENTIAL	В	67	1	63.7	67.1	3.4	Yes	
G9	RESIDENTIAL	В	67	3	61.7	66.3	4.6	Yes	
G10	RESIDENTIAL	В	67	2	61.8	67.1	5.3	Yes	
G11	RESIDENTIAL	В	67	2	61.9	67.4	5.5	Yes	
G12.1	RESIDENTIAL	В	67	1	61.8	67.2	5.4	Yes	
G12.2	RESIDENTIAL	В	67	1	64.3	68.6	4.3	Yes	
G13.1	RESIDENTIAL	В	67	1	62.0	67.6	5.6	Yes	
G13.2	RESIDENTIAL	В	67	1	64.5	68.9	4.4	Yes	
G14.1	RESIDENTIAL	В	67	8	61.4	66.7	5.3	Yes	
G14.2	RESIDENTIAL	В	67	8	64.0	68.8	4.8	Yes	
G14.3	RESIDENTIAL	В	67	8	65.9	69.7	3.8	Yes	
G15	RESIDENTIAL	В	67	4	55.7	57.1	1.4	No	
G16	RESIDENTIAL	В	67	4	54.3	55.8	1.5	No	
G17	RESIDENTIAL	В	67	4	51.7	52.9	1.2	No	
G18	RESIDENTIAL	В	67	4	53.9	55.9	2.0	No	
G19	RESIDENTIAL	В	67	4	48.0	48.8	0.8	No	
G20	RESIDENTIAL	В	67	4	44.9	46.2	1.3	No	
G21	RESIDENTIAL	В	67	2	59.1	65.1	6.0	No	
G22	RESIDENTIAL	В	67	2	56.5	61.1	4.6	No	
G23	RESIDENTIAL	В	67	2	59.3	63.3	4.0	No	

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)					Noise Level dB(A) L _{eq} (1h)			
Receiver ID			Criteria	Receptors		Future Build Alternative			
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)	
G24	RESIDENTIAL	В	67	2	53.7	56.6	2.9	No	
G25	PLAYGROUND	С	67	1	61.2	66.9	5.7	Yes	
G26	RESIDENTIAL	В	67	2	43.1	43.3	0.2	No	
G27	RESIDENTIAL	В	67	2	42.9	42.9	0.0	No	
G28	RESIDENTIAL	В	67	2	43.0	43.0	0.0	No	
G29	RESIDENTIAL	В	67	2	43.3	43.3	0.0	No	
G30	RESIDENTIAL	В	67	2	58.8	64.1	5.3	No	
G31	RESIDENTIAL	В	67	2	58.8	63.2	4.4	No	
G32	RESIDENTIAL	В	67	2	59.6	63.4	3.8	No	
G33	RESIDENTIAL	В	67	2	55.3	58.8	3.5	No	
G34	RESIDENTIAL	В	67	2	55.1	56.3	1.2	No	
G35	RESIDENTIAL	В	67	6	50.3	52.9	2.6	No	
G36	RESIDENTIAL	В	67	6	57.6	62.1	4.5	No	
G37	RESIDENTIAL	В	67	6	44.5	44.3	-0.2	No	
G38	RESIDENTIAL	В	67	5	46.2	47.8	1.6	No	
G39	RESIDENTIAL	В	67	5	48.0	50.2	2.2	No	
G40	RESIDENTIAL	В	67	2	57.7	61.7	4.0	No	
G41	RESIDENTIAL	В	67	2	57.7	61.3	3.6	No	
G42	RESIDENTIAL	В	67	2	57.6	60.8	3.2	No	
G43	RESIDENTIAL	В	67	2	57.5	60.2	2.7	No	
G44	RESIDENTIAL	В	67	2	57.3	59.8	2.5	No	
G45	RESIDENTIAL	В	67	6	52.7	59.0	6.3	No	
G46	RETAIL	F	-	0	51.1	53.4	2.3	No	
G46A	VACANT	G	-	0	60.0	64.6	4.6	No	
G47	RESIDENTIAL	В	67	6	45.5	47.6	2.1	No	
G47A.1	RESIDENTIAL	В	67	1	59.3	64.0	4.7	No	
G47A.2	RESIDENTIAL	В	67	1	62.6	69.0	6.4	Yes	
G48	RESIDENTIAL	В	67	6	46.9	47.2	0.3	No	

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)				Noise Level dB(A) L _{eq} (1h)			
Receiver ID			Criteria	Receptors			Future Bui Alternativ	
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)
G48A.1	RESIDENTIAL	В	67	2	61.0	64.7	3.7	No
G48A.2	RESIDENTIAL	В	67	2	63.9	68.9	5.0	Yes
G49	RESIDENTIAL	В	67	2	49.5	50.6	1.1	No
G49A	RESIDENTIAL	В	67	1	61.0	64.5	3.5	No
G50	RESIDENTIAL	В	67	3	64.6	67.4	2.8	Yes
G51	RESIDENTIAL	В	67	2	60.8	64.6	3.8	No
G52	RESIDENTIAL	В	67	2	49.5	50.0	0.5	No
G53	RESIDENTIAL	В	67	2	51.4	50.6	-0.8	No
G54-1	RESIDENTIAL	В	67	2	53.2	55.8	2.6	No
G54-2	RESIDENTIAL	В	67	2	62.8	66.0	3.2	Yes
G55	RESIDENTIAL	В	67	2	51.8	54.9	3.1	No
G56	RESIDENTIAL	В	67	1	50.8	54.0	3.2	No
G57	RESIDENTIAL	В	67	3	48.1	46.2	-1.9	No
G58	RESIDENTIAL	В	67	2	57.5	57.8	0.3	No
G59	RESIDENTIAL	В	67	2	59.3	58.9	-0.4	No
G60	SCHOOL	С	67	1	48.4	49.1	0.7	No
G61	SCHOOL	С	67	1	64.4	61.7	-2.7	No
G62	RESIDENTIAL	В	67	1	64.9	63.3	-1.6	No
G63	RESIDENTIAL	В	67	1	53.2	53.7	0.5	No
G64.1	RESIDENTIAL	В	67	6	55.9	55. 9	0.0	No
G64.2	RESIDENTIAL	В	67	6	58.8	58.3	-0.5	No
G65	RESIDENTIAL	В	67	3	58.2	57.8	-0.4	No
G66	RESIDENTIAL	В	67	3	59.5	58.6	-0.9	No
G67	RESIDENTIAL	В	67	3	61.6	60.7	-0.9	No
G68.1	RESIDENTIAL	В	67	6	51.5	49.7	-1.8	No
G68.2	RESIDENTIAL	В	67	6	53.9	51.4	-2.5	No
G69	RESIDENTIAL	В	67	3	57.1	55.9	-1.2	No
G70	RESIDENTIAL	В	67	3	58.0	56.7	-1.3	No

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)				Noise Level dB(A) L _{eq} (1h)			
Receiver ID			Criteria	Receptors		Future Build Alternative		
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)
G71	RESIDENTIAL	В	67	3	61.8	60.8	-1.0	No
G72	RESIDENTIAL	В	67	3	54.2	52.4	-1.8	No
G73	RESIDENTIAL	В	67	3	57.7	57.1	-0.6	No
G74	RESIDENTIAL	В	67	3	57.6	54.6	-3.0	No
G75-1	RESIDENTIAL	В	67	3	60.2	57.6	-2.6	No
G75-2	RESIDENTIAL	В	67	2	52.5	51.7	-0.8	No
G76	RESIDENTIAL	В	67	2	53.5	52.4	-1.1	No
G78	RESIDENTIAL	В	67	2	50.3	48.1	-2.2	No
G79	RESIDENTIAL	В	67	2	51.9	49.6	-2.3	No
G80	RESIDENTIAL	В	67	3	51.7	50.0	-1.7	No
G81	RESIDENTIAL	В	67	3	53.6	52.2	-1.4	No
G82	RESIDENTIAL	В	67	2	62.0	61.9	-0.1	No
G83	RESIDENTIAL	В	67	2	62.3	61.4	-0.9	No
G84.1	RESIDENTIAL	В	67	1	52.1	48.8	-3.3	No
G84.2	RESIDENTIAL	В	67	1	54.3	52.5	-1.8	No
G85.1	RESIDENTIAL	В	67	3	52.2	48.1	-4.1	No
G85.2	RESIDENTIAL	В	67	3	55.0	52.8	-2.2	No
G86	RESIDENTIAL	В	67	3	54.7	50.0	-4.7	No
G87	RESIDENTIAL	В	67	3	57.0	53.2	-3.8	No
G88.1	RESIDENTIAL	В	67	1	59.4	56.0	-3.4	No
G88.2	RESIDENTIAL	В	67	1	61.4	59.9	-1.5	No
G89.1	RESIDENTIAL	В	67	1	62.4	61.2	-1.2	No
G89.2	RESIDENTIAL	В	67	1	60.6	57.4	-3.2	No
G90	RESIDENTIAL	В	67	2	62.9	60.6	-2.3	No
G91	RESIDENTIAL	В	67	2	64.3	62.4	-1.9	No
G92	RESIDENTIAL	В	67	2	45.5	43.9	-1.6	No
G93	RESIDENTIAL	В	67	8	47.5	46.0	-1.5	No
G94	PLAYGROUND	С	67	1	49.2	47.5	-1.7	No

Boldface indicates	e levels that approach, equal or exceed the NAC and create a	an impact.
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NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)						Noise Level dB(A) L _{eq} (1h)	
Receiver ID			Criteria	Receptors			Future Bui Alternativ	
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)
G95	RESIDENTIAL	В	67	4	40.7	39.7	-1.0	No
G96	RESIDENTIAL	В	67	2	49.8	45.8	-4.0	No
G97	RESIDENTIAL	В	67	2	52.5	49.0	-3.5	No
G98	RESIDENTIAL	В	67	2	51.5	49.5	-2.0	No
G99	RESIDENTIAL	В	67	2	47.0	46.3	-0.7	No
G100	RESIDENTIAL	В	67	2	43.9	42.9	-1.0	No
G101	RESIDENTIAL	В	67	2	51.6	50.5	-1.1	No
G102	RESIDENTIAL	В	67	2	58.1	57.8	-0.3	No
G103-1	PLAYGROUND	С	67	1	56.3	52.5	-3.8	No
G103-2	RESIDENTIAL	В	67	2	45.1	44.1	-1.0	No
G104	RESIDENTIAL	В	67	2	47.3	45.8	-1.5	No
G105	RESIDENTIAL	В	67	2	55.1	53.5	-1.6	No
G106	RESIDENTIAL	В	67	2	57.3	55.9	-1.4	No
G107	RESIDENTIAL	В	67	2	61.8	59.7	-2.1	No
G108	RESIDENTIAL	В	67	2	45.3	44.3	-1.0	No
G109	RESIDENTIAL	В	67	2	45.0	44.1	-0.9	No
G110	RESIDENTIAL	В	67	2	56.3	53.1	-3.2	No
G111	RESIDENTIAL	В	67	2	55.0	53.0	-2.0	No
G112	RESIDENTIAL	В	67	2	54.4	52.1	-2.3	No
G113	RESIDENTIAL	В	67	2	56.4	54.9	-1.5	No
G114	RESIDENTIAL	В	67	2	60.8	58.8	-2.0	No
G115	RESIDENTIAL	В	67	2	62.9	60.8	-2.1	No
G116	RESIDENTIAL	В	67	2	66.0	64.3	-1.7	No
G117	RESIDENTIAL	В	67	7	48.4	50.3	1.9	No
G118	RESIDENTIAL	В	67	2	66.8	66.4	-0.4	Yes
G119	RESIDENTIAL	В	67	3	59.4	59.0	-0.4	No
G120	RESIDENTIAL	В	67	2	63.7	63.0	-0.7	No
G121	RESIDENTIAL	В	67	7	52.5	54.0	1.5	No

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)						Noise Level dB(A) L _{eq} (1h)	
Receiver ID			Criteria	Receptors			Future Bui Alternativ	
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)
G122	RESIDENTIAL	В	67	3	49.7	52.4	2.7	No
G123	RESIDENTIAL	В	67	2	53.0	54.2	1.2	No
G127.2	RESIDENTIAL	В	67	3	71.1	70.6	-0.5	Yes
G127.3	RESIDENTIAL	В	67	3	71.2	70.7	-0.5	Yes
G127.4	RESIDENTIAL	В	67	3	71.2	70.7	-0.5	Yes
G127.5	RESIDENTIAL	В	67	3	71.2	70.8	-0.4	Yes
G127.6	RESIDENTIAL	В	67	3	71.1	70.7	-0.4	Yes
G127.7	RESIDENTIAL	В	67	3	71.2	70.8	-0.4	Yes
G127.8	RESIDENTIAL	В	67	3	71.1	70.7	-0.4	Yes
G128.1	RESIDENTIAL	В	67	5	71.0	70.6	-0.4	Yes
G128.2	RESIDENTIAL	В	67	5	71.2	70.8	-0.4	Yes
G128.3	RESIDENTIAL	В	67	5	71.3	70.9	-0.4	Yes
G128.4	RESIDENTIAL	В	67	5	71.3	70.9	-0.4	Yes
G128.5	RESIDENTIAL	В	67	5	71.4	70.9	-0.5	Yes
G128.6	RESIDENTIAL	В	67	5	71.3	70.9	-0.4	Yes
G128.7	RESIDENTIAL	В	67	5	71.3	70.9	-0.4	Yes
G128.8	RESIDENTIAL	В	67	5	71.3	70.8	-0.5	Yes
G129	PLACE OF WORSHIP	С	67	1	57.0	57.9	0.9	No
G130	PLACE OF WORSHIP	С	67	1	57.0	56.2	-0.8	No
G131	RETAIL	F	-	0	66.4	65.8	-0.6	No
G132	RETAIL	F	-	0	69.8	69.8	0.0	No
H1	RETAIL	F	-	0	72.3	71.9	-0.4	No
H2	RESIDENTIAL	В	67	1	61.3	60.4	-0.9	No
H3	PLACE OF WORSHIP	С	67	1	57.6	60.1	2.5	No
H4	RETAIL	F	-	0	66.7	66.1	-0.6	No
H5	OFFICE	E	72	1	56.7	59.3	2.6	No
H6	INDUSTRIAL	F	-	0	64.0	64.9	0.9	No
H7	INDUSTRIAL	F	-	0	59.5	61.2	1.7	No

Boldface indicates noise levels that approach, equal or exceed the NAC and create an impact. Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor. NAC Category D – Building – All, window closed – Ordinary sash; Noise reduction due to exterior of structure – 20 dB.

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	Noise Abatement Criteria (NAC)						Noise Level dB(A) L _{eq} (1h)		
Receiver ID	Description	Category	Criteria	Receptors	Existing	Future Build Alternative			
	Description	Calegory	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)	
H8	INDUSTRIAL	F	-	0	57.6	58.4	0.8	No	
H9	INDUSTRIAL	F	-	0	58.6	59.4	0.8	No	
H10	VACANT	G	-	0	64.3	68.5	4.2	No	
H11	PUBLIC OR NONPROFIT INSTITUTIONAL STRUCTURE (NO EXTERIOR USE)	D	52	1	43.0	46.2	3.2	No	
H12	PUBLIC OR NONPROFIT INSTITUTIONAL STRUCTURE	С	67	1	63.9	62.7	-1.2	No	
H13	INDUSTRIAL	F	-	0	66.4	65.8	-0.6	No	
H14	RESIDENTIAL	В	67	1	67.5	66.7	-0.8	Yes	
H15	RESIDENTIAL	В	67	1	61.9	60.6	-1.3	No	
H16	RESIDENTIAL	В	67	2	61.2	60.4	-0.8	No	
H17	RESIDENTIAL	В	67	1	71.3	70.2	-1.1	Yes	
H18.1	RESIDENTIAL	В	67	1	68.5	68.1	-0.4	Yes	
H18.2	RESIDENTIAL	В	67	1	69.3	68.9	-0.4	Yes	
H19	RESIDENTIAL	В	67	2	67.6	67.2	-0.4	Yes	
H20	RESIDENTIAL	В	67	1	66.8	66.3	-0.5	Yes	
H21	RESIDENTIAL	В	67	1	64.7	64.5	-0.2	No	
H22	PLACE OF WORSHIP	С	67	1	61.8	59.3	-2.5	No	
H23.1	RESIDENTIAL	В	67	1	73.6	71.8	-1.8	Yes	
H23.2	RESIDENTIAL	В	67	1	74.2	72.8	-1.4	Yes	
H24	RESIDENTIAL	В	67	1	66.9	63.0	-3.9	No	
H25	SCHOOL	С	67	1	62.1	58.8	-3.3	No	
H26	SCHOOL	С	67	1	62.7	58.6	-4.1	No	
H27	RESIDENTIAL	В	67	2	73.6	69.7	-3.9	Yes	
H28	SCHOOL	С	67	1	62.6	58.2	-4.4	No	
H29	RESTAURANT	E	72	1	71.1	64.5	-6.6	No	
H30	VACANT	G	-	0	65.1	60.7	-4.4	No	
H31	RETAIL	F	-	0	72.3	66.7	-5.6	No	
11	ACTIVE SPORT AREA	С	67	1	67.1	63.4	-3.7	No	
12	RESIDENTIAL	В	67	1	62.9	60.4	-2.5	No	
Receiver II	ndicates noise levels that approach, equal or exceed the NAC and Ds with a decimal point (.) indicates floor. For example, B2.1, indica gory D – Building – All, window closed – Ordinary sash; Noise redu	ates first floor; B2	2.2, indicates		etc. If there is	s not a d	ecimal point, it is	first floor.	

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	Noise Abatement Criteria (NAC)						Noise Level dB(A) L _{eq} (1h)	
Receiver ID			Criteria	Receptors			Future Bui Alternativ	
12	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)
13	RESIDENTIAL	В	67	1	66.9	64.2	-2.7	No
14	RESIDENTIAL	В	67	2	64.8	62.1	-2.7	No
15	RESIDENTIAL	В	67	1	63.6	60.6	-3.0	No
16	RESIDENTIAL	В	67	1	61.4	58.8	-2.6	No
17	RESIDENTIAL	В	67	1	61.3	58.2	-3.1	No
18.1	RESIDENTIAL	В	67	1	54.4	53.2	-1.2	No
18.2	RESIDENTIAL	В	67	2	54.1	52.9	-1.2	No
112	RESIDENTIAL	В	67	1	54.6	52.4	-2.2	No
113	RESIDENTIAL	В	67	1	53.9	52.6	-1.3	No
114	RESIDENTIAL	В	67	1	53.7	52.4	-1.3	No
124	RESIDENTIAL	В	67	2	56.8	54.9	-1.9	No
125	VACANT	G	-	0	54.6	52.3	-2.3	No
126	RESIDENTIAL	В	67	1	51.9	50.9	-1.0	No
127	RESIDENTIAL	В	67	1	51.9	50.5	-1.4	No
132	VACANT	G	-	0	44.6	44.9	0.3	No
133.1	RESIDENTIAL	В	67	1	50.6	49.6	-1.0	No
133.2	RESIDENTIAL	В	67	1	53.5	52.7	-0.8	No
134.1	RESIDENTIAL	В	67	1	45.9	46.1	0.2	No
134.2	RESIDENTIAL	В	67	1	49.6	48.7	-0.9	No
I35.1	RESIDENTIAL	В	67	1	46.0	45.2	-0.8	No
135.2	RESIDENTIAL	В	67	1	48.6	48.0	-0.6	No
136	VACANT	G	-	0	52.0	51.2	-0.8	No
142	RESIDENTIAL	В	67	1	54.8	53.2	-1.6	No
143	RESIDENTIAL	В	67	1	54.7	53.3	-1.4	No
144.1	RESIDENTIAL	В	67	3	55.5	54.0	-1.5	No
144.2	RESIDENTIAL	В	67	1	59.0	55.5	-3.5	No
I45	RESIDENTIAL	В	67	1	61.7	57.7	-4.0	No
146	RESIDENTIAL	В	67	1	58.2	55.0	-3.2	No

Bol	dfac	e ind	licates	noise	e lev	els	that	app	oroac	h, e	equal o	r exce	eed t	he N	VAC	; an	d cr	reat	te a	ın ir	npact.				
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NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)						Noise Level dB(A) L _{eq} (1h)	
Receiver ID			Criteria	Receptors			Future Bui Alternativ	
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)
147	RESIDENTIAL	В	67	1	56.8	53.9	-2.9	No
148	RESIDENTIAL	В	67	1	53.6	51.4	-2.2	No
149	RESIDENTIAL	В	67	2	55.2	53.7	-1.5	No
150.1	RESIDENTIAL	В	67	1	69.2	64.2	-5.0	No
150.2	RESIDENTIAL	В	67	1	64.8	60.8	-4.0	No
151.1	VACANT	G	-	0	62.9	59.0	-3.9	No
I51.2	VACANT	G	-	0	66.1	62.0	-4.1	No
152	VACANT	G	-	0	60.7	57.0	-3.7	No
153	VACANT	G	-	0	56.5	53.6	-2.9	No
154	RESIDENTIAL	В	67	1	55.0	53.6	-1.4	No
155	RESIDENTIAL	В	67	3	53.5	53.2	-0.3	No
156	RESIDENTIAL	В	67	1	62.7	59.7	-3.0	No
157	RESIDENTIAL	В	67	1	59.8	57.5	-2.3	No
158	RESIDENTIAL	В	67	1	57.9	56.1	-1.8	No
159	VACANT	G	-	0	56.3	54.5	-1.8	No
160.1	RESIDENTIAL	В	67	4	52.1	51.7	-0.4	No
160.2	RESIDENTIAL	В	67	1	54.8	52.9	-1.9	No
161	RESIDENTIAL	В	67	3	53.0	52.3	-0.7	No
162	PLACE OF WORSHIP	С	67	1	56.5	54.6	-1.9	No
163	RESIDENTIAL	В	67	3	52.1	51.7	-0.4	No
164	RESIDENTIAL	В	67	1	69.1	66.4	-2.7	Yes
165	RESIDENTIAL	В	67	1	65.5	63.2	-2.3	No
166	RETAIL	F	-	0	63.4	61.5	-1.9	No
167	RESIDENTIAL	В	67	1	66.1	64.0	-2.1	No
168	RESIDENTIAL	В	67	1	69.4	65.4	-4.0	No
169	RESIDENTIAL	В	67	1	68.0	63.0	-5.0	No
170	RESIDENTIAL	В	67	1	58.5	56.8	-1.7	No
171	RESIDENTIAL	В	67	1	66.9	64.2	-2.7	No

Boldface indicates noise levels that approach, equal or exceed the NAC and create an impact. Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)						Noise Level dB(A) L _{eq} (1h)	
Receiver ID			Criteria	Receptors			Future Bui Alternativ	
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)
172	RESIDENTIAL	В	67	1	43.5	43.1	-0.4	No
173	RESIDENTIAL	В	67	1	60.0	59.2	-0.8	No
174	RESIDENTIAL	В	67	1	59.1	58.6	-0.5	No
175	RESIDENTIAL	В	67	1	60.3	58.9	-1.4	No
176	RESIDENTIAL	В	67	1	57.7	57.3	-0.4	No
177	RESIDENTIAL	В	67	1	55.3	54.9	-0.4	No
178	RESIDENTIAL	В	67	1	54.3	54.2	-0.1	No
179	RESIDENTIAL	В	67	1	55.1	53.8	-1.3	No
180	RESIDENTIAL	В	67	1	54.9	54.7	-0.2	No
181	RESIDENTIAL	В	67	1	57.6	56.4	-1.2	No
182	RESIDENTIAL	В	67	3	52.3	51.0	-1.3	No
183	VACANT	G	-	0	50.6	52.3	1.7	No
184	RESIDENTIAL	В	67	1	51.6	53.4	1.8	No
J1	MAINTENANCE FACILITY	F	-	0	66.9	66.5	-0.4	No
J2	VACANT	G	-	0	45.8	49.5	3.7	No
J6	INDUSTRIAL	F	-	0	66.0	65.8	-0.2	No
J7	INDUSTRIAL	F	-	0	47.7	50.7	3.0	No
J8	INDUSTRIAL	F	-	0	70.8	69.9	-0.9	No
J9	PICNIC TABLE	С	67	1	62.3	62.8	0.5	No
J10	INDUSTRIAL	F	-	0	68.0	70.4	2.4	No
K1	VACANT	G	-	0	61.3	56.6	-4.7	No
K2	RESIDENTIAL	В	67	1	57.5	54.3	-3.2	No
K3	RESIDENTIAL	В	67	1	56.5	53.6	-2.9	No
K4	RESIDENTIAL	В	67	1	67.9	62.5	-5.4	No
K5	RESIDENTIAL	В	67	1	65.1	60.5	-4.6	No
К6	RESIDENTIAL	В	67	4	55.2	53.9	-1.3	No
K7.1	RESIDENTIAL	В	67	1	52.6	51.4	-1.2	No
K7.2	RESIDENTIAL	В	67	1	55.0	52.3	-2.7	No

Boldface indicates noise levels that approach, equal or exceed the NAC and create an impact.
Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)						Noise Level dB(A) L _{eq} (1h)	
Receiver ID			Criteria	Receptors	- ·		Future Bui Alternativ	
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)
K8	VACANT	G	-	0	68.4	63.5	-4.9	No
К9	VACANT	G	-	0	66.1	61.6	-4.5	No
K10	VACANT	G	-	0	59.8	57.4	-2.4	No
K11	RESIDENTIAL	В	67	1	65.3	61.9	-3.4	No
K12	RESIDENTIAL	В	67	1	58.4	56.7	-1.7	No
K13	RESIDENTIAL	В	67	2	56.6	55.2	-1.4	No
K14	RESIDENTIAL	В	67	2	53.0	52.0	-1.0	No
K15	RESIDENTIAL	В	67	1	65.8	62.5	-3.3	No
K16	RESIDENTIAL	В	67	1	67.6	65.0	-2.6	No
K17	RESIDENTIAL	В	67	1	69.9	65.8	-4.1	No
K18.1	RESIDENTIAL	В	67	1	69.0	65.3	-3.7	No
K18.2	RESIDENTIAL	В	67	1	73.9	69.9	-4.0	Yes
K19	RESIDENTIAL	В	67	2	59.5	57.5	-2.0	No
K20	RESIDENTIAL	В	67	1	59.6	57.4	-2.2	No
K21	RESIDENTIAL	В	67	3	56.6	55.3	-1.3	No
K22	RESIDENTIAL	В	67	4	56.4	55.4	-1.0	No
K25	VACANT	G	-	0	66.5	62.6	-3.9	No
K26	VACANT	G	-	0	65.7	61.4	-4.3	No
K27	VACANT	G	-	0	66.4	61.6	-4.8	No
K28.1	RESIDENTIAL	В	67	1	60.2	57.3	-2.9	No
K28.2	RESIDENTIAL	В	67	1	63.9	60.4	-3.5	No
K29.1	RESIDENTIAL	В	67	1	57.0	55.3	-1.7	No
K29.2	RESIDENTIAL	В	67	1	60.9	57.1	-3.8	No
K30	RESIDENTIAL	В	67	1	52.5	51.4	-1.1	No
K31	RESIDENTIAL	В	67	1	64.0	60.7	-3.3	No
K32	RESIDENTIAL	В	67	1	66.1	62.6	-3.5	No
K33	RESIDENTIAL	В	67	3	55.8	53.6	-2.2	No
K34	RESIDENTIAL	В	67	3	51.0	49.7	-1.3	No

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)				Noise Level dB(A) Leq(1h)					
Receiver ID	Description	Category	Criteria	Receptors	Existing		Future Bui Alternativ	е		
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)		
K35	RESIDENTIAL	В	67	2	50.2	48.9	-1.3	No		
K36	RESIDENTIAL	В	67	1	66.4	62.9	-3.5	No		
K37	RESIDENTIAL	В	67	1	59.7	57.7	-2.0	No		
K38	RESIDENTIAL	В	67	3	56.5	55.1	-1.4	No		
K39	VACANT	G	-	0	70.3	68.3	-2.0	No		
K40	RESIDENTIAL	В	67	1	62.0	59.5	-2.5	No		
K42	RESIDENTIAL	В	67	1	59.8	58.1	-1.7	No		
K43	RESIDENTIAL	В	67	1	58.8	57.3	-1.5	No		
K44	RESIDENTIAL	В	67	3	53.7	52.8	-0.9	No		
K45	RESIDENTIAL	В	67	1	59.4	58.0	-1.4	No		
K46	VACANT	G	-	0	61.1	58.8	-2.3	No		
K47	RESIDENTIAL	В	67	1	53.6	52.8	-0.8	No		
K48	RESIDENTIAL	В	67	1	60.1	58.5	-1.6	No		
K49	RESIDENTIAL	В	67	4	55.3	54.5	-0.8	No		
K50	RESIDENTIAL	В	67	1	53.0	52.6	-0.4	No		
K51	RESIDENTIAL	В	67	1	57.4	56.4	-1.0	No		
K52	RESIDENTIAL	В	67	1	56.3	55.4	-0.9	No		
K53	RESIDENTIAL	В	67	1	55.5	54.8	-0.7	No		
K54	RESIDENTIAL	В	67	4	53.1	52.5	-0.6	No		
L1	VACANT	G	-	0	70.0	66.5	-3.5	No		
L2	ACTIVE SPORT AREA	С	67	1	48.7	49.0	0.3	No		
M1	RESIDENTIAL	В	67	1	61.9	58.0	-3.9	No		
M2	RETAIL	F	-	0	57.1	54.7	-2.4	No		
M3	RESIDENTIAL	В	67	1	53.7	52.2	-1.5	No		
M4	VACANT	G	-	0	54.0	52.1	-1.9	No		
M5	RESIDENTIAL	В	67	1	49.9	49.9	0.0	No		
M6	VACANT	G	-	0	52.7	52.2	-0.5	No		
M7	VACANT	G	-	0	58.0	56.8	-1.2	No		

Boldface indicates noise levels that approach, equal or exceed the NAC and create an impact. Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)						Noise Level dB(A) L _{eq} (1h)	
Receiver ID	Description	Catagory	Criteria	Receptors	Eviation		Future Bui Alternativ	
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)
M8	RESIDENTIAL	В	67	1	55.5	54.6	-0.9	No
M9	RESIDENTIAL	В	67	1	52.4	52.2	-0.2	No
M10	RESIDENTIAL	В	67	3	50.8	50.6	-0.2	No
M11	RESIDENTIAL	В	67	1	59.0	57.1	-1.9	No
M12	RESIDENTIAL	В	67	1	55.6	54.5	-1.1	No
M13	RESIDENTIAL	В	67	1	52.2	51.8	-0.4	No
M14	RESIDENTIAL	В	67	1	66.0	63.9	-2.1	No
M15	RESIDENTIAL	В	67	1	64.3	61.1	-3.2	No
M16	RESIDENTIAL	В	67	1	62.1	58.7	-3.4	No
M17	VACANT	G	-	0	60.9	58.1	-2.8	No
M18	VACANT	G	-	0	59.5	57.2	-2.3	No
M19	RESIDENTIAL	В	67	3	54.2	52.9	-1.3	No
M20	RESIDENTIAL	В	67	1	67.9	64.7	-3.2	No
M21	RESIDENTIAL	В	67	1	61.3	58.0	-3.3	No
M22	RESIDENTIAL	В	67	1	60.3	57.4	-2.9	No
M23	RESIDENTIAL	В	67	1	58.7	56.5	-2.2	No
M24	VACANT	G	-	0	57.9	56.3	-1.6	No
M25	RESIDENTIAL	В	67	2	55.7	53.8	-1.9	No
M26	VACANT	G	-	0	70.2	66.8	-3.4	No
M27.1	RESIDENTIAL	В	67	2	57.3	54.5	-2.8	No
M27.2	RESIDENTIAL	В	67	1	59.7	56.6	-3.1	No
M28	RESIDENTIAL	В	67	4	53.9	51.3	-2.6	No
M29	VACANT	G	-	0	73.3	70.0	-3.3	No
M30	VACANT	G	-	0	72.1	68.2	-3.9	No
M31	VACANT	G	-	0	62.7	58.9	-3.8	No
M32	VACANT	G	-	0	57.7	54.5	-3.2	No
M33	RESIDENTIAL	В	67	3	53.0	50.7	-2.3	No
M34	RESIDENTIAL	В	67	1	69.7	65.7	-4.0	No

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)						Noise Level dB(A) L _{eq} (1h)	
Receiver ID			Criteria	Receptors			Future Bui Alternativ	
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)
M35	RESIDENTIAL	В	67	1	65.5	62.5	-3.0	No
M36	RESIDENTIAL	В	67	1	62.0	58.7	-3.3	No
M37	VACANT	G	-	0	59.1	55.4	-3.7	No
M38	RESIDENTIAL	В	67	1	56.8	53.5	-3.3	No
M39	RESIDENTIAL	В	67	1	54.7	51.9	-2.8	No
M40	VACANT	G	-	0	55.2	52.7	-2.5	No
M41	VACANT	G	-	0	55.1	52.6	-2.5	No
M42	RESIDENTIAL	В	67	1	54.1	52.1	-2.0	No
M43	RESIDENTIAL	В	67	1	53.2	51.3	-1.9	No
M44	RESIDENTIAL	В	67	1	64.7	62.6	-2.1	No
M45	RESIDENTIAL	В	67	1	62.9	59.1	-3.8	No
M46	RESIDENTIAL	В	67	1	60.0	55.8	-4.2	No
M47	RESIDENTIAL	В	67	2	57.6	53.8	-3.8	No
M48	RESIDENTIAL	В	67	1	55.8	52.4	-3.4	No
M49	VACANT	G	-	0	53.5	51.8	-1.7	No
M50	RESIDENTIAL	В	67	1	52.3	51.0	-1.3	No
M51	RESIDENTIAL	В	67	1	61.3	58.2	-3.1	No
M52	RESIDENTIAL	В	67	1	57.1	54.1	-3.0	No
M53	RESIDENTIAL	В	67	1	55.8	53.6	-2.2	No
M54	RESIDENTIAL	В	67	2	53.3	51.6	-1.7	No
M55	RESIDENTIAL	В	67	2	52.0	50.6	-1.4	No
M56	RESIDENTIAL	В	67	1	51.2	49.9	-1.3	No
M57	RESIDENTIAL	В	67	1	50.2	48.4	-1.8	No
M58	VACANT	G	-	0	50.5	49.6	-0.9	No
M59	RESIDENTIAL	В	67	1	63.4	59.9	-3.5	No
M60	RESIDENTIAL	В	67	1	60.6	56.9	-3.7	No
M61	RESIDENTIAL	В	67	1	58.7	55.6	-3.1	No
M62	RESIDENTIAL	В	67	1	50.6	49.3	-1.3	No

Boldface indicates noise levels that approach, equal or exceed the NAC and create an impact.	
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NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)				Noise Level dB(A) L _{eq} (1h)				
Receiver ID	Description	Catagory	Criteria	Receptors	Existing	Future Build Alternative			
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)	
M63	RESIDENTIAL	В	67	2	54.3	51.9	-2.4	No	
M64	VACANT	G	-	0	49.7	48.3	-1.4	No	
M65	VACANT	G	-	0	48.5	47.7	-0.8	No	
M66-1	SCHOOL	С	67	1	51.4	50.5	-0.9	No	
M66-2	VACANT	G	-	0	69.8	65.4	-4.4	No	
M67	RESIDENTIAL	В	67	1	65.0	61.9	-3.1	No	
M68	RESIDENTIAL	В	67	1	59.9	57.1	-2.8	No	
M69	RESIDENTIAL	В	67	1	57.8	55.3	-2.5	No	
M70	VACANT	G	-	0	53.3	51.3	-2.0	No	
M71	RESIDENTIAL	В	67	1	69.6	64.8	-4.8	No	
M72	RESIDENTIAL	В	67	1	63.1	59.8	-3.3	No	
M73	RESIDENTIAL	В	67	1	62.0	58.4	-3.6	No	
M74	RESIDENTIAL	В	67	1	60.6	56.9	-3.7	No	
M75	RESIDENTIAL	В	67	2	55.1	53.1	-2.0	No	
M76	VACANT	G	-	0	54.2	52.5	-1.7	No	
M77	ACTIVE SPORT AREA	С	67	1	50.5	49.6	-0.9	No	
M78	RESIDENTIAL	В	67	2	74.4	72.2	-2.2	Yes	
M79	RESIDENTIAL	В	67	1	57.9	56.2	-1.7	No	
M80	RESIDENTIAL	В	67	1	54.8	53.6	-1.2	No	
M81	RESIDENTIAL	В	67	1	52.7	51.6	-1.1	No	
M82	RESIDENTIAL	В	67	1	51.0	50.1	-0.9	No	
M83.1	RESIDENTIAL	В	67	1	50.3	49.4	-0.9	No	
M83.2	RESIDENTIAL	В	67	1	52.9	51.0	-1.9	No	
M84	RESIDENTIAL	В	67	1	49.2	48.4	-0.8	No	
M85.1	RESIDENTIAL	В	67	1	70.2	69.4	-0.8	Yes	
M85.2	RESIDENTIAL	В	67	1	73.5	71.4	-2.1	Yes	
M86.1	RESIDENTIAL	В	67	1	68.7	67.9	-0.8	Yes	
M86.2	RESIDENTIAL	В	67	1	67.8	65.0	-2.8	No	

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)				Noise Level dB(A) Leg(1h)				
Receiver ID			Criteria	Receptors		Future Build Alternative			
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)	
M87.1	RESIDENTIAL	В	67	1	56.0	54.6	-1.4	No	
M87.2	RESIDENTIAL	В	67	1	59.5	56.6	-2.9	No	
M88	RESIDENTIAL	В	67	1	53.7	52.8	-0.9	No	
M89	RESIDENTIAL	В	67	1	53.1	52.5	-0.6	No	
M90	RESIDENTIAL	В	67	1	51.8	51.2	-0.6	No	
M91	RESIDENTIAL	В	67	1	66.4	63.7	-2.7	No	
M92	RESIDENTIAL	В	67	1	62.4	60.6	-1.8	No	
M93	RESIDENTIAL	В	67	1	60.2	58.8	-1.4	No	
M94	RESIDENTIAL	В	67	2	57.6	56.4	-1.2	No	
M95	VACANT	G	-	0	61.9	60.7	-1.2	No	
M96	RESIDENTIAL	В	67	1	55.0	53.0	-2.0	No	
M97	RESIDENTIAL	В	67	1	53.4	51.8	-1.6	No	
M98	RESIDENTIAL	В	67	1	52.5	51.2	-1.3	No	
M99	RESIDENTIAL	В	67	2	51.2	49.9	-1.3	No	
M100	RESIDENTIAL	В	67	2	51.2	50.2	-1.0	No	
M101	RESIDENTIAL	В	67	1	61.4	59.9	-1.5	No	
M102	RESIDENTIAL	В	67	1	56.3	54.7	-1.6	No	
M103	RESIDENTIAL	В	67	2	52.2	51.3	-0.9	No	
M104	VACANT	G	-	0	50.9	50.7	-0.2	No	
M105	RESIDENTIAL	В	67	1	60.8	58.2	-2.6	No	
M106	RESIDENTIAL	В	67	1	57.1	53.5	-3.6	No	
M107	RESIDENTIAL	В	67	1	55.6	52.1	-3.5	No	
M108	VACANT	G	-	0	54.3	52.0	-2.3	No	
M109	VACANT	G	-	0	54.1	51.8	-2.3	No	
M110	RESIDENTIAL	В	67	1	53.8	51.5	-2.3	No	
M111	RESIDENTIAL	В	67	1	54.7	52.4	-2.3	No	
M112	RESIDENTIAL	В	67	2	53.6	51.5	-2.1	No	
M113	RESIDENTIAL	В	67	2	73.7	74.0	0.3	Yes	

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)				Noise Level dB(A) L _{eq} (1h)				
Receiver ID			Criteria	Receptors	F ·	Future Build Alternative			
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)	
M114	RESIDENTIAL	В	67	1	63.0	61.0	-2.0	No	
M115.1	RESIDENTIAL	В	67	1	61.1	58.5	-2.6	No	
M115.2	RESIDENTIAL	В	67	1	64.3	63.4	-0.9	No	
M116	RESIDENTIAL	В	67	1	60.1	57.3	-2.8	No	
M117.1	RESIDENTIAL	В	67	1	59.1	56.1	-3.0	No	
M117.2	RESIDENTIAL	В	67	1	62.2	59.9	-2.3	No	
M118	VACANT	G	-	0	56.6	55.0	-1.6	No	
M119	RESIDENTIAL	В	67	1	56.3	54.5	-1.8	No	
M120	RESIDENTIAL	В	67	1	56.5	53.6	-2.9	No	
M121	VACANT	G	-	0	55.0	52.8	-2.2	No	
M122.1	RESIDENTIAL	В	67	1	51.2	50.7	-0.5	No	
M122.2	RESIDENTIAL	В	67	1	53.4	51.8	-1.6	No	
M123	RESIDENTIAL	В	67	1	65.9	64.9	-1.0	No	
M124	RESIDENTIAL	В	67	1	65.8	64.7	-1.1	No	
M126	RESIDENTIAL	В	67	1	59.3	57.9	-1.4	No	
M127	RESIDENTIAL	В	67	1	51.9	51.4	-0.5	No	
M128	RESIDENTIAL	В	67	1	58.6	58.6	0.0	No	
M129	RESIDENTIAL	В	67	3	55.3	54.9	-0.4	No	
M130	RESIDENTIAL	В	67	2	52.6	52.4	-0.2	No	
M131	RESIDENTIAL	В	67	1	55.6	55.7	0.1	No	
M132	RESIDENTIAL	В	67	1	54.2	53.9	-0.3	No	
M133	RESIDENTIAL	В	67	1	56.6	56.9	0.3	No	
M134	RESIDENTIAL	В	67	1	55.4	55.4	0.0	No	
M135	RESIDENTIAL	В	67	1	54.9	54.6	-0.3	No	
M136	RETAIL	F	-	0	52.9	52.1	-0.8	No	
M137	PLACE OF WORSHIP	С	67	1	60.8	60.8	0.0	No	
M138	PLACE OF WORSHIP	С	67	1	57.5	54.1	-3.4	No	
M139	RETAIL	F	-	0	60.6	56.9	-3.7	No	

Boldface indicates noise levels that approach, equal or exceed the NAC and create an impact. Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)				Noise Level dB(A) Leg(1h)				
Receiver ID			Criteria	Receptors		Future Build Alternative			
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)	
N1	PLACE OF WORSHIP	С	67	1	53.3	49.9	-3.4	No	
N2	RESIDENTIAL	В	67	4	47.5	46.4	-1.1	No	
N3	VACANT	G	-	0	50.9	49.0	-1.9	No	
N4	VACANT	G	-	0	51.2	49.5	-1.7	No	
N5	RESIDENTIAL	В	67	3	47.8	44.9	-2.9	No	
N6	OFFICE	E	72	1	57.1	53.7	-3.4	No	
N7	RETAIL	F	-	0	55.3	53.7	-1.6	No	
N8	RESIDENTIAL	В	67	1	51.2	48.9	-2.3	No	
N9.1	RESIDENTIAL	В	67	1	51.0	47.1	-3.9	No	
N9.2	RESIDENTIAL	В	67	1	50.5	48.9	-1.6	No	
N10	RESIDENTIAL	В	67	1	50.2	46.9	-3.3	No	
N11	VACANT	G	-	0	49.2	47.4	-1.8	No	
N12	RETAIL	F	-	0	58.5	56.3	-2.2	No	
N13	RESIDENTIAL	В	67	1	56.1	52.5	-3.6	No	
N14	RESIDENTIAL	В	67	1	51.3	47.9	-3.4	No	
N15	SCHOOL	С	67	1	49.5	48.0	-1.5	No	
N16	PLAYGROUND	С	67	1	48.8	47.6	-1.2	No	
N17	RESIDENTIAL	В	67	1	59.7	57.4	-2.3	No	
N18	RESIDENTIAL	В	67	1	59.5	56.4	-3.1	No	
N19.1	RESIDENTIAL	В	67	1	60.7	56.6	-4.1	No	
N19.2	RESIDENTIAL	В	67	1	63.1	59.1	-4.0	No	
N20	RESIDENTIAL	В	67	1	63.5	58.8	-4.7	No	
N21	RESIDENTIAL	В	67	4	42.6	42.7	0.1	No	
N22	RESIDENTIAL	В	67	4	55.3	51.4	-3.9	No	
N23	RESIDENTIAL	В	67	1	64.9	56.5	-8.4	No	
N24	RESIDENTIAL	В	67	1	61.3	53.4	-7.9	No	
N25	RESIDENTIAL	В	67	1	58.9	52.1	-6.8	No	
N26	RESIDENTIAL	В	67	1	56.1	51.3	-4.8	No	

Boldface indicates noise levels that approach, equal or exceed the NAC and create an impact.	Boldface	indicates nois	se levels that approad	h, equal or exceed the	NAC and create an impact.
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NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)		Noise Level dB(A) Leα(1h)					
Receiver ID	Description	Catagory	Criteria	Receptors	Existing	Future Build Alternative		
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)
N27	RESIDENTIAL	В	67	2	53.8	49.9	-3.9	No
N28	RESIDENTIAL	В	67	1	61.1	61.0	-0.1	No
N29	RESIDENTIAL	В	67	1	58.9	59.0	0.1	No
N30.1	RESIDENTIAL	В	67	1	61.2	58.5	-2.7	No
N30.2	RESIDENTIAL	В	67	1	65.5	62.4	-3.1	No
N31	RESIDENTIAL	В	67	1	54.9	54.4	-0.5	No
N32.1	RESIDENTIAL	В	67	1	53.8	52.8	-1.0	No
N32.2	RESIDENTIAL	В	67	1	56.5	54.6	-1.9	No
N33	VACANT	G	-	0	53.1	51.2	-1.9	No
N34	RESIDENTIAL	В	67	1	52.4	50.8	-1.6	No
N35	VACANT	G	-	0	67.6	64.4	-3.2	No
N36	RESIDENTIAL	В	67	1	56.5	56.3	-0.2	No
N37	RESIDENTIAL	В	67	1	52.8	53.0	0.2	No
N38	RESIDENTIAL	В	67	1	50.4	51.0	0.6	No
N39	RESIDENTIAL	В	67	1	50.1	50.1	0.0	No
N40.1	RESIDENTIAL	В	67	3	51.2	50.6	-0.6	No
N40.2	RESIDENTIAL	В	67	3	54.0	52.6	-1.4	No
N41.1	RESIDENTIAL	В	67	1	50.2	48.9	-1.3	No
N41.2	RESIDENTIAL	В	67	1	53.8	50.6	-3.2	No
N42.1	RESIDENTIAL	В	67	1	70.0	65.3	-4.7	No
N42.2	RESIDENTIAL	В	67	2	68.0	63.5	-4.5	No
N43.1	RESIDENTIAL	В	67	2	59.8	57.9	-1.9	No
N43.2	RESIDENTIAL	В	67	2	63.5	60.9	-2.6	No
N44	RESIDENTIAL	В	67	2	55.2	54.2	-1.0	No
N45	PLAYGROUND	С	67	1	60.7	58.6	-2.1	No
N46	RESIDENTIAL	В	67	1	55.4	54.5	-0.9	No
N47	RESIDENTIAL	В	67	1	54.3	53.5	-0.8	No
N48.1	RESIDENTIAL	В	67	1	66.6	63.8	-2.8	No

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)				Noise Level dB(A) L _{eq} (1h)				
Receiver ID	Description	Catagory	Criteria	Receptors	Future Build Alternative				
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)	
N48.2	RESIDENTIAL	В	67	1	69.9	69.0	-0.9	Yes	
N49.1	RESIDENTIAL	В	67	1	58.8	57.3	-1.5	No	
N49.2	RESIDENTIAL	В	67	1	62.5	60.2	-2.3	No	
N50	RESIDENTIAL	В	67	1	58.2	56.9	-1.3	No	
N51	RESIDENTIAL	В	67	1	57.0	55.7	-1.3	No	
N52	VACANT	G	-	0	55.1	54.0	-1.1	No	
N53	VACANT	G	-	0	67.5	65.2	-2.3	No	
N54	RESIDENTIAL	В	67	1	62.7	61.0	-1.7	No	
N55	RESIDENTIAL	В	67	1	60.1	58.9	-1.2	No	
N56	RESIDENTIAL	В	67	1	63.4	60.9	-2.5	No	
N57	RESIDENTIAL	В	67	1	60.3	58.3	-2.0	No	
N58-1	RESIDENTIAL	В	67	1	57.7	56.5	-1.2	No	
N58-2	VACANT	G	-	0	55.7	54.8	-0.9	No	
N59	VACANT	G	-	0	54.0	53.3	-0.7	No	
N60	RESIDENTIAL	В	67	1	53.1	52.6	-0.5	No	
N61	RESIDENTIAL	В	67	1	53.5	52.7	-0.8	No	
N62	VACANT	G	-	0	54.5	53.8	-0.7	No	
N63	RESIDENTIAL	В	67	1	65.6	62.5	-3.1	No	
N64	RESIDENTIAL	В	67	1	63.5	61.1	-2.4	No	
N65	RESIDENTIAL	В	67	1	65.0	62.6	-2.4	No	
N66	VACANT	G	-	0	56.9	56.0	-0.9	No	
N67	RESIDENTIAL	В	67	1	54.8	54.1	-0.7	No	
N68	RESIDENTIAL	В	67	1	54.6	53.8	-0.8	No	
N69	RESIDENTIAL	В	67	1	67.0	62.9	-4.1	No	
N70	RESIDENTIAL	В	67	1	64.9	61.8	-3.1	No	
N71	RESIDENTIAL	В	67	1	61.1	58.9	-2.2	No	
N72	RESIDENTIAL	В	67	1	59.8	57.8	-2.0	No	
N73	RESIDENTIAL	В	67	1	58.8	56.8	-2.0	No	

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)				Noise Level dB(A) L _{eq} (1h)				
Receiver ID			Criteria	Receptors		Future Build Alternative			
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)	
N74	RESIDENTIAL	В	67	1	58.1	56.2	-1.9	No	
N75	RESIDENTIAL	В	67	1	58.0	57.0	-1.0	No	
N76	RESIDENTIAL	В	67	2	56.8	55.7	-1.1	No	
N77	RESIDENTIAL	В	67	1	55.4	54.3	-1.1	No	
N78	RESIDENTIAL	В	67	1	63.5	61.0	-2.5	No	
N79	RESIDENTIAL	В	67	1	64.2	62.1	-2.1	No	
N80	VACANT	G	-	0	61.0	58.7	-2.3	No	
N81	RESIDENTIAL	В	67	1	60.2	57.8	-2.4	No	
N82	RESIDENTIAL	В	67	1	58.6	56.5	-2.1	No	
N83	RESIDENTIAL	В	67	4	56.0	54.3	-1.7	No	
N84	VACANT	G	-	0	66.2	62.9	-3.3	No	
N85	VACANT	G	-	0	61.0	58.6	-2.4	No	
N86	RESIDENTIAL	В	67	1	59.3	57.3	-2.0	No	
N87	RESIDENTIAL	В	67	3	56.7	55.1	-1.6	No	
N88	RESIDENTIAL	В	67	1	66.5	62.3	-4.2	No	
N89	RESIDENTIAL	В	67	1	65.2	61.1	-4.1	No	
N90	RESIDENTIAL	В	67	1	64.2	60.0	-4.2	No	
N91	RESIDENTIAL	В	67	1	61.9	58.2	-3.7	No	
N92	RESIDENTIAL	В	67	1	57.5	55.5	-2.0	No	
N93	RESIDENTIAL	В	67	1	54.8	53.2	-1.6	No	
N94	RESIDENTIAL	В	67	1	59.1	56.6	-2.5	No	
N95	RESIDENTIAL	В	67	1	54.7	52.6	-2.1	No	
N96	RESIDENTIAL	В	67	1	64.4	61.6	-2.8	No	
N97	RESIDENTIAL	В	67	1	62.9	60.5	-2.4	No	
N98	RESIDENTIAL	В	67	1	59.0	58.2	-0.8	No	
N99	RESIDENTIAL	В	67	1	57.5	55.8	-1.7	No	
N100	RESIDENTIAL	В	67	1	67.0	63.8	-3.2	No	
N101	RESIDENTIAL	В	67	1	60.2	59.4	-0.8	No	

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)				Noise Level dB(A) Leg(1h)				
Receiver ID			Criteria	Receptors		Future Build Alternative			
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)	
N103	RESIDENTIAL	В	67	1	53.1	52.6	-0.5	No	
N104	RESIDENTIAL	В	67	1	52.6	52.1	-0.5	No	
N105	VACANT	G	-	0	65.6	63.4	-2.2	No	
N106	VACANT	G	-	0	63.9	62.6	-1.3	No	
N107	RESIDENTIAL	В	67	1	58.9	56.0	-2.9	No	
N108	RESIDENTIAL	В	67	1	56.8	53.1	-3.7	No	
N109	RESIDENTIAL	В	67	1	55.5	52.0	-3.5	No	
N110	RESIDENTIAL	В	67	1	54.5	51.1	-3.4	No	
N111	RESIDENTIAL	В	67	1	65.5	64.3	-1.2	No	
N112	RESIDENTIAL	В	67	1	61.8	58.8	-3.0	No	
N113	RESIDENTIAL	В	67	1	60.0	57.4	-2.6	No	
N114	RESIDENTIAL	В	67	1	55.8	54.2	-1.6	No	
N115.1	RESIDENTIAL	В	67	2	53.4	52.3	-1.1	No	
N115.2	RESIDENTIAL	В	67	1	56.2	54.2	-2.0	No	
N116	RESIDENTIAL	В	67	5	54.3	52.8	-1.5	No	
N117	RESIDENTIAL	В	67	1	66.4	67.7	1.3	Yes	
N118	RESIDENTIAL	В	67	1	63.2	63.1	-0.1	No	
N119	RESIDENTIAL	В	67	1	64.0	65.9	1.9	No	
N120	RESIDENTIAL	В	67	1	63.0	64.3	1.3	No	
N121	RESIDENTIAL	В	67	1	61.8	61.9	0.1	No	
N122	VACANT	G	-	0	60.8	58.7	-2.1	No	
N123	RESIDENTIAL	В	67	1	60.0	55.7	-4.3	No	
N124	RESIDENTIAL	В	67	1	58.1	53.0	-5.1	No	
N126	RESIDENTIAL	В	67	1	67.7	68.8	1.1	Yes	
N127	RESIDENTIAL	В	67	1	67.7	68.9	1.2	Yes	
N128	VACANT	G	-	0	64.8	63.9	-0.9	No	
N129	VACANT	G	-	0	63.5	59.4	-4.1	No	
N130	VACANT	G	-	0	63.3	63.3	0.0	No	

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)				Noise Level dB(A) Leg(1h)				
Receiver ID			Criteria	Receptors		Future Build Alternative			
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)	
N131	VACANT	G	-	0	60.3	54.3	-6.0	No	
N132	RESIDENTIAL	В	67	1	58.9	53.5	-5.4	No	
N133	RESIDENTIAL	В	67	1	60.2	53.1	-7.1	No	
N134	RESIDENTIAL	В	67	1	58.6	52.5	-6.1	No	
N135	RESIDENTIAL	В	67	2	61.2	54.1	-7.1	No	
01	RESIDENTIAL	В	67	1	56.2	54.0	-2.2	No	
02	SCHOOL	С	67	1	57.6	54.0	-3.6	No	
03	INDUSTRIAL	F	-	0	48.6	50.3	1.7	No	
O4	RETAIL	F	-	0	48.2	50.4	2.2	No	
P1	RESIDENTIAL	В	67	1	66.0	67.2	1.2	Yes	
P2	RESIDENTIAL	В	67	1	64.0	64.1	0.1	No	
P3	RESIDENTIAL	В	67	1	58.9	57.5	-1.4	No	
P4	RESIDENTIAL	В	67	1	57.5	55.7	-1.8	No	
P5	RESIDENTIAL	В	67	1	57.3	55.0	-2.3	No	
P6	RESIDENTIAL	В	67	1	57.5	54.8	-2.7	No	
P7	RESIDENTIAL	В	67	1	59.5	53.5	-6.0	No	
P8	RETAIL	F	-	0	56.4	51.5	-4.9	No	
P9	RESIDENTIAL	В	67	1	65.4	66.4	1.0	Yes	
P10	RESIDENTIAL	В	67	4	58.8	58.6	-0.2	No	
P11	RESIDENTIAL	В	67	3	56.7	56.0	-0.7	No	
P12	VACANT	G	-	0	52.3	52.0	-0.3	No	
P13	RESIDENTIAL	В	67	4	60.5	60.6	0.1	No	
P14	RESIDENTIAL	В	67	1	56.9	56.3	-0.6	No	
P15	VACANT	G	-	0	55.8	55.2	-0.6	No	
P16	VACANT	G	-	0	52.0	52.1	0.1	No	
P17	VACANT	G	-	0	51.2	52.2	1.0	No	
P18	RESIDENTIAL	В	67	1	64.4	64.0	-0.4	No	
P19	VACANT	G	-	0	62.6	62.2	-0.4	No	

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)						Existing (Yes/No) 7.1 -0.7 No 2.8 1.9 No 3.1 -0.7 No 0.8 -0.5 No 3.6 -0.8 No 4.7 -1.3 No 3.0 -1.4 No 3.6 -2.2 No 5.9 -1.4 No 3.6 -0.7 No 3.3 -0.9 No 5.6 -0.7 No 3.3 -0.9 No 5.6 -0.7 No 3.5 -3.0 No 5.8 -2.3 No 4.7 -2.3 No 3.4 -1.8 No 2.6 -1.3 No 2.1 -2.26 No 5.7 -2.6 No 5.7 -2.6 No 5.7 -2.6 No 5.7 -2.6 No <	
Receiver ID			Criteria	Receptors				
	Description	Category	L _{eq} (h)		Existing	NL	Change from	Impact
P20	RESIDENTIAL	В	67	1	57.8	57.1		
P21	RESIDENTIAL	В	67	1	50.9	52.8	1.9	No
P22	RESIDENTIAL	В	67	1	63.8	63.1	-0.7	No
P23	RESIDENTIAL	В	67	1	61.3	60.8	-0.5	No
P24	RESIDENTIAL	В	67	3	59.4	58.6	-0.8	No
P25	RESIDENTIAL	В	67	1	66.0	64.7	-1.3	No
P26	RESIDENTIAL	В	67	1	59.4	58.0	-1.4	No
P27	VACANT	G	-	0	70.8	68.6	-2.2	No
P28	VACANT	G	-	0	67.3	65.9	-1.4	No
P29	VACANT	G	-	0	63.4	61.6	-1.8	No
P30	VACANT	G	-	0	59.2	58.3	-0.9	No
P31	VACANT	G	-	0	57.3	56.6	-0.7	No
P32	RESIDENTIAL	В	67	1	66.5	63.5	-3.0	No
P33	RESIDENTIAL	В	67	1	58.1	55.8	-2.3	No
P34	RESIDENTIAL	В	67	1	57.0	54.7	-2.3	No
P35	RESIDENTIAL	В	67	1	55.2	53.4	-1.8	No
P36	RESIDENTIAL	В	67	1	53.9	52.6	-1.3	No
P37	VACANT	G	-	0	61.1	58.5	-2.6	No
P38	RESIDENTIAL	В	67	2	51.9	50.6	-1.3	No
P39	VACANT	G	-	0	65.0	62.1	-2.9	No
P40	RESIDENTIAL	В	67	1	62.4	59.8	-2.6	No
P41	RESIDENTIAL	В	67	1	58.3	55.7	-2.6	No
P42	RESIDENTIAL	В	67	1	56.8	53.7	-3.1	No
P43	RESIDENTIAL	В	67	3	53.9	52.4	-1.5	No
P44	VACANT	G	-	0	62.6	65.6	3.0	No
P45	RESIDENTIAL	В	67	1	60.8	64.3	3.5	No
P46	RESIDENTIAL	В	67	1	60.3	63.9	3.6	No
P47	RESIDENTIAL	В	67	1	59.5	63.4	3.9	No

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)						Existing (Yes/No) 3.0 4.2 No 2.3 4.4 No 1.0 5.0 No 5.4 0.3 No 5.3 0.7 No 5.3 0.7 No 5.0 0.1 No 5.2 0.7 No 5.5 0.1 No 5.8 0.0 No 7.1 -0.9 No 7.6 -1.9 No 7.6 -1.9 No 2.5 -0.3 No 4.6 0.4 No 3.1 -2.1 No 4.8 -1.8 No 3.0 0.1 No 4.8 -1.5 No	
Receiver ID			Criteria	Receptors				
	Description	Category	L _{eq} (h)		Existing	NL	Change from	Impact
P48	RESIDENTIAL	В	67	1	58.8	63.0		
P49	RESIDENTIAL	В	67	2	57.9	62.3	4.4	No
P50	RESIDENTIAL	В	67	3	56.0	61.0	5.0	No
R1	RETAIL	F	-	0	46.1	46.4	0.3	No
R2	RESIDENTIAL	В	67	1	45.6	46.3	0.7	No
R3	RESIDENTIAL	В	67	2	44.9	45.0	0.1	No
R4	RESIDENTIAL	В	67	2	45.5	46.2	0.7	No
R5	RETAIL	F	-	0	47.3	48.8	1.5	No
R6	RESIDENTIAL	В	67	2	45.4	45.5	0.1	No
R7	RESIDENTIAL	В	67	1	45.8	45.8	0.0	No
R8	RESIDENTIAL	В	67	3	48.2	49.3	1.1	No
R9	VACANT	G	-	0	50.1	51.5	1.4	No
R10	RESIDENTIAL	В	67	1	48.0	47.1	-0.9	No
R11	RESIDENTIAL	В	67	3	49.5	47.6	-1.9	No
R12	RESIDENTIAL	В	67	4	52.8	52.5	-0.3	No
R13	RESIDENTIAL	В	67	3	54.2	54.6	0.4	No
R14	VACANT	G	-	0	57.3	54.2	-3.1	No
R15	RESIDENTIAL	В	67	1	58.2	56.1	-2.1	No
R16	RESIDENTIAL	В	67	1	56.6	54.8	-1.8	No
R18	RESIDENTIAL	В	67	2	47.9	48.0	0.1	No
R19	RESIDENTIAL	В	67	3	56.3	54.8	-1.5	No
R20	RESIDENTIAL	В	67	3	51.3	51.2	-0.1	No
R21	RESIDENTIAL	В	67	3	56.4	55.0	-1.4	No
R22	RESIDENTIAL	В	67	3	51.1	50.5	-0.6	No
R23	RESIDENTIAL	В	67	3	56.6	56.0	-0.6	No
R24	VACANT	G	-	0	56.1	53.7	-2.4	No
R25	RESIDENTIAL	В	67	1	64.2	62.4	-1.8	No
R26	RESIDENTIAL	В	67	3	57.4	56.1	-1.3	No

Boldface indicates	e levels that approach, equal or exceed the NAC and create a	an impact.
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NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criter (NAC)	ia					Existing (Yesho) 4.0 -3.7 No 1.9 -1.0 No 4.8 -1.3 No 5.4 -1.4 No 5.0 -1.3 No 5.7 -1.0 No 5.8 -1.8 No 7.0 -1.0 No 7.3 -0.7 No 7.4 -1.7 No 5.4 -2.3 No 6.4 -2.3 No 7.4 No -1.7 7 No -1.7 8.9 -3.4 No	
Receiver ID			Criteria	Receptors				
	Description	Category	L _{eq} (h)		Existing	NL	Change from	Impact
R27	VACANT	G	-	0	57.7	54.0	-	
R31	RESIDENTIAL	В	67	1	62.9	61.9	-1.0	No
R32	RETAIL	F	-	0	66.1	64.8	-1.3	No
R33	VACANT	G	-	0	66.8	65.4	-1.4	No
R34	RETAIL	F	-	0	66.3	65.0	-1.3	No
R35	VACANT	G	-	0	67.0	65.7	-1.3	No
R36	RETAIL	F	-	0	65.9	64.7	-1.2	No
R37	VACANT	G	-	0	67.0	66.1	-0.9	No
R38	VACANT	G	-	0	67.3	66.3	-1.0	No
R39	VACANT	G	-	0	67.7	66.7	-1.0	No
R40	VACANT	G	-	0	68.6	66.8	-1.8	No
R41	RETAIL	F	-	0	69.3	67.0	-2.3	No
R42	RETAIL	F	-	0	68.0	67.0	-1.0	No
R43	VACANT	G	-	0	68.0	67.3	-0.7	No
R44	PLACE OF WORSHIP (NO EXTERIOR USE)	D	52	1	48.8	47.1	-1.7	No
R45	RETAIL	F	-	0	67.7	65.4	-2.3	No
R46	RETAIL	F	-	0	72.3	68.9	-3.4	No
R47	RETAIL	F	-	0	74.2	69.8	-4.4	No
R48	RETAIL	F	-	0	74.4	71.5	-2.9	No
R51	MOTEL	E	72	1	62.4	61.7	-0.7	No
R52	VACANT	G	-	0	65.8	65.7	-0.1	No
R53	VACANT	G	-	0	65.8	65.7	-0.1	No
R54	RETAIL	F	-	0	65.7	64.8	-0.9	No
S1	RESIDENTIAL	В	67	1	55.9	53.0	-2.9	No
S2	RESIDENTIAL	В	67	1	60.7	57.6	-3.1	No
S3	INDUSTRIAL	F	-	0	60.4	55.2	-5.2	No
S4	INDUSTRIAL	F	-	0	65.6	65.6	0.0	No
S5	DAY CARE CENTER	С	67	1	55.4	51.6	-3.8	No

Boldface indicat	tes noise levels that approach, equal or exceed the NAC and create an impact.
Receiver IDs wit	h a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.
NAC Category D) – Building – All, window closed – Ordinary sash; Noise reduction due to exterior of structure – 20 dB.

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	Noise Abatement Criteria (NAC)						Existing (Yes/No) 7.2 -2.3 No 0.6 -0.9 No 1.4 -1.4 No 2.5 -2.2 No 3.2 -2.6 No 3.8 -2.4 No 5.5 -1.3 No 6.7 -1.0 No 8.9 0.0 No 1.6 0.4 No 7.2 3.4 No 4.2 -0.5 No 7.6 -1.0 No 7.4 -1.2 No 9.3 -1.1 No 7.1 -1.4 No 9.4 -0.6 No 9.8 -0.5 No 2.1 -1.2 No 5.3 -1.7 No 8.1 -0.7 No 8.9 -0.7 No 2.1 -0.7 No 2.2 -0.7 No	
Receiver ID			Criteria	Receptors				
	Description	Category	L _{eq} (h)		Existing	NL	Change from	Impact
S6	PLAYGROUND	С	67	1	59.5	57.2	-	
S7	RESIDENTIAL	В	67	1	51.5	50.6	-0.9	No
S8	RESIDENTIAL	В	67	1	52.8	51.4	-1.4	No
S9	RESIDENTIAL	В	67	1	54.7	52.5	-2.2	No
S10	VACANT	G	-	0	55.8	53.2	-2.6	No
S11	VACANT	G	-	0	56.2	53.8	-2.4	No
S12	RESIDENTIAL	В	67	1	56.8	55.5	-1.3	No
S13	RESIDENTIAL	В	67	1	57.7	56.7	-1.0	No
S14	RESIDENTIAL	В	67	1	58.9	58.9	0.0	No
S15	RESIDENTIAL	В	67	1	61.2	61.6	0.4	No
S16	PLACE OF WORSHIP	С	67	1	53.8	57.2	3.4	No
T1	VACANT	G	-	0	54.7	54.2	-0.5	No
T2	PLACE OF WORSHIP	С	67	1	58.6	57.6	-1.0	No
T3	INDUSTRIAL	F	-	0	58.6	57.4	-1.2	No
T4	INDUSTRIAL	F	-	0	60.4	59.3	-1.1	No
T5	VACANT	G	-	0	58.5	57.1	-1.4	No
T6	RESIDENTIAL	В	67	1	60.0	59.4	-0.6	No
T7	RESIDENTIAL	В	67	1	60.3	59.8	-0.5	No
Т8	RESIDENTIAL	В	67	1	63.4	62.1	-1.3	No
Т9	RESIDENTIAL	В	67	1	64.0	62.8	-1.2	No
T10	RESIDENTIAL	В	67	1	67.0	65.3	-1.7	No
T11	RETAIL	F	-	0	58.8	58.1	-0.7	No
T12	RESIDENTIAL	В	67	1	59.6	58.9	-0.7	No
T13	RESIDENTIAL	В	67	1	62.9	62.2	-0.7	No
T14	VACANT	G	-	0	63.5	62.3	-1.2	No
T15	PARK	С	67	1	61.0	59.9	-1.1	No
T16	RESIDENTIAL	В	67	1	64.1	62.1	-2.0	No
T17	RESIDENTIAL	В	67	1	57.5	56.9	-0.6	No

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)						Existing (Yes/No) 2.2 -2.2 No 3.5 -2.5 No 6.1 -2.1 Yes 9.8 -1.5 No 2.7 -2.0 No 5.5 -0.5 No 0.9 -2.2 No 4.7 -3.2 No 6.5 -3.0 No 7.2 -2.5 No 9.0 -1.8 No 4.8 -0.9 No 3.6 -2.2 No 3.9 -1.9 No 0.5 1.0 No 0.8 -0.9 No 0.7 2.0 No	
Receiver ID	Description	Cotogony	Criteria	Receptors	Evicting		Future Bui Alternativ	
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)
T18	RESIDENTIAL	В	67	1	64.4	62.2		
T19	RESIDENTIAL	В	67	1	66.0	63.5	-2.5	No
T20	RESIDENTIAL	В	67	1	68.2	66.1	-2.1	Yes
T21	RESIDENTIAL	В	67	1	61.3	59.8	-1.5	No
T22	VACANT	G	-	0	64.7	62.7	-2.0	No
T23	RESIDENTIAL	В	67	1	56.0	55.5	-0.5	No
T24	RESIDENTIAL	В	67	2	63.1	60.9	-2.2	No
T25	RESIDENTIAL	В	67	1	57.9	54.7	-3.2	No
T26	RESIDENTIAL	В	67	1	59.5	56.5	-3.0	No
T27	RESIDENTIAL	В	67	1	59.7	57.2	-2.5	No
T28	RESIDENTIAL	В	67	1	60.8	59.0	-1.8	No
T29	RESIDENTIAL	В	67	1	65.7	64.8	-0.9	No
U1	RETAIL	F	-	0	55.8	53.6	-2.2	No
U2	VACANT	G	-	0	55.8	53.9	-1.9	No
U3	PLACE OF WORSHIP	С	67	1	49.5	50.5	1.0	No
U4	OFFICE	E	72	1	51.7	50.8	-0.9	No
U5	RETAIL	F	-	0	45.9	47.9	2.0	No
U6	RETAIL	F	-	0	54.0	54.9	0.9	No
U7	RETAIL	F	-	0	53.5	55.2	1.7	No
U8	RESTAURANT	E	72	1	64.4	63.0	-1.4	No
U9	RETAIL	F	-	0	50.9	51.6	0.7	No
U10	RESIDENTIAL	В	67	1	65.4	64.4	-1.0	No
U11	PLACE OF WORSHIP	С	67	1	63.9	61.8	-2.1	No
U12	RESTAURANT	E	72	1	51.2	52.2	1.0	No
U13	RETAIL	F	-	0	48.8	55.8	7.0	No
U14	VACANT	G	-	0	42.5	42.0	-0.5	No
U15	RETAIL	F	-	0	45.3	49.9	4.6	No
U16	VACANT	G	-	0	55.1	56.0	0.9	No

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)					Noise Level dB(A) L _{e0} (1h) Future Build Alternative NL Change from Existing Impact (Yes/No) 55.0 1.3 No 55.0 1.3 No 52.0 2.6 No 50.8 1.8 No 58.2 -1.4 No 60.5 -1.1 No 49.9 -0.5 No 55.4 -0.3 No 57.9 -4.5 No 59.9 -6.7 No 51.7 -0.6 No 57.0 -2.2 No 58.8 -2.7 No 51.7 -1.0 No 53.1 -1.4 No 53.1 -1.4 No 53.7 -1.6 No 54.4 -1.7 No 54.4 -1.7 No 56.0 -2.2 No 57.1 -2.4 No 57.9 -3.		
Receiver ID			Criteria	Receptors	- · ··			
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)
U17	VACANT	G	-	0	53.7	55.0		
U18	VACANT	G	-	0	49.4	52.0	2.6	No
U19	VACANT	G	-	0	49.0	50.8	1.8	No
U20	PLACE OF WORSHIP	С	67	1	59.6	58.2	-1.4	No
U21	PICNIC TABLE	С	67	1	61.6	60.5	-1.1	No
V1	RETAIL	F	-	0	50.4	49.9	-0.5	No
V2	RESIDENTIAL	В	67	3	55.7	55.4	-0.3	No
V3	RESIDENTIAL	В	67	1	62.4	57.9	-4.5	No
V4	RESIDENTIAL	В	67	1	66.6	59.9	-6.7	No
V5	VACANT	G	-	0	52.3	51.7	-0.6	No
V6	RESIDENTIAL	В	67	1	59.2	57.0	-2.2	No
V7	RESIDENTIAL	В	67	1	61.5	58.8	-2.7	No
V8	RESIDENTIAL	В	67	2	52.7	51.7	-1.0	No
V9	RESIDENTIAL	В	67	1	54.5	53.1	-1.4	No
V10	RESIDENTIAL	В	67	1	55.3	53.7	-1.6	No
V11	RESIDENTIAL	В	67	1	56.1	54.4	-1.7	No
V12	RESIDENTIAL	В	67	1	58.2	56.0	-2.2	No
V13	RESIDENTIAL	В	67	1	59.5	57.1	-2.4	No
V14	RESIDENTIAL	В	67	1	61.1	57.9	-3.2	No
V15.1	RESIDENTIAL	В	67	1	66.3	63.9	-2.4	No
V15.2	RESIDENTIAL	В	67	1	71.6	67.7	-3.9	Yes
V16	RETAIL	F	-	0	49.1	49.7	0.6	No
V17	RESIDENTIAL	В	67	2	49.9	50.2	0.3	No
V18	RESIDENTIAL	В	67	1	52.1	52.7	0.6	No
V19	VACANT	G	-	0	55.4	55.6	0.2	No
V20	RESIDENTIAL	В	67	1	56.6	56.6	0.0	No
V21	VACANT	G	-	0	57.6	57.4	-0.2	No
V22	RESIDENTIAL	В	67	1	59.9	59.9	0.0	No

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)					NL Change from Existing Impact (Yes/No) 0.2 50.1 -0.1 No 1.4 51.5 0.1 No 1.1 51.8 0.7 No 2.3 53.1 0.8 No 5.0 55.2 0.2 No 1.4 51.3 -0.1 No 5.0 55.2 0.2 No 5.9 54.5 -1.4 No 8.3 57.5 -0.8 No 9.4 49.1 -0.3 No 1.0 51.0 0.0 No			
Receiver ID			Criteria	Receptors					
	Description	Category	L _{eq} (h)		Existing	NL	Change from	Impact	
V23	RESIDENTIAL	В	67	1	50.2	50.1			
V24	RESIDENTIAL	В	67	1	51.4	51.5	0.1	No	
V25	VACANT	G	-	0	51.1	51.8	0.7	No	
V26	RESIDENTIAL	В	67	1	52.3	53.1	0.8	No	
V27	VACANT	G	-	0	55.0	55.2	0.2	No	
V28	RESIDENTIAL	В	67	3	51.4	51.3	-0.1	No	
V29	RESIDENTIAL	В	67	1	55.9	54.5	-1.4	No	
V30	RESIDENTIAL	В	67	1	58.3	57.5	-0.8	No	
V31	RESIDENTIAL	В	67	3	49.4	49.1	-0.3	No	
V32	VACANT	G	-	0	51.0	51.0	0.0	No	
V33	RESIDENTIAL	В	67	4	53.8	52.8	-1.0	No	
V34	RESIDENTIAL	В	67	1	55.5	54.5	-1.0	No	
V35	RESIDENTIAL	В	67	1	56.6	55.1	-1.5	No	
V36	RESIDENTIAL	В	67	1	58.2	56.4	-1.8	No	
V37	RESIDENTIAL	В	67	2	53.2	52.8	-0.4	No	
V39	RESIDENTIAL	В	67	1	56.5	55.4	-1.1	No	
V40	RESIDENTIAL	В	67	1	60.4	58.4	-2.0	No	
V41	RESIDENTIAL	В	67	1	63.2	60.4	-2.8	No	
V42	RESIDENTIAL	В	67	1	64.6	61.6	-3.0	No	
V43	RESIDENTIAL	В	67	1	48.0	48.3	0.3	No	
V44	RESIDENTIAL	В	67	2	49.4	49.6	0.2	No	
V45	RESIDENTIAL	В	67	1	52.6	52.4	-0.2	No	
V46	RESIDENTIAL	В	67	1	55.3	54.8	-0.5	No	
V47	RESIDENTIAL	В	67	1	57.7	57.1	-0.6	No	
V48.1	RESIDENTIAL	В	67	1	49.5	49.5	0.0	No	
V48.2	RESIDENTIAL	В	67	1	51.7	51.4	-0.3	No	
V49	RESIDENTIAL	В	67	1	53.0	52.8	-0.2	No	
V50	RESIDENTIAL	В	67	1	62.4	60.5	-1.9	No	

Boldface indicate	se levels that approach, equal or exceed the NAC a	nd create an impact.
Dolarace indicate	se levels that approach, equal of exceed the NAO a	nu cicale an impact.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)					Noise Level dB(A) $L_{eq}(1h)$ Future Build Alternative NL Change from Existing Impact (Yes/No) 63.4 -2.3 No 49.4 -0.1 No 52.3 -0.1 No 55.1 -0.5 No 56.8 -2.7 No 56.5 -0.8 No 58.3 -1.1 No 63.7 -1.4 No 50.8 0.1 No 52.0 -0.3 No 52.1 -1.5 No 52.2 -0.6 No 52.5 -0.6 No 52.5 -0.4 No 57.2 -0.9 No 49.4 -0.2 No 51.1 -1.0 No			
Receiver ID	Description	0	Criteria	Receptors	E. J. Barr	Existing Alternative			
	Description	Category	L _{eq} (h)		Existing	NL	Change from	Impact	
V51	RESIDENTIAL	В	67	1	65.7	63.4			
V52	PLACE OF WORSHIP	С	67	1	49.5	49.4	-0.1	No	
V53	RESIDENTIAL	В	67	3	52.4	52.3	-0.1	No	
V54.1	RESIDENTIAL	В	67	1	55.6	55.1	-0.5	No	
V54.2	RESIDENTIAL	В	67	1	59.5	56.8	-2.7	No	
V55	RESIDENTIAL	В	67	1	57.3	56.5	-0.8	No	
V56	RESIDENTIAL	В	67	1	59.4	58.3	-1.1	No	
V57	VACANT	G	-	0	65.1	63.7	-1.4	No	
V58.1	RESIDENTIAL	В	67	1	50.7	50.8	0.1	No	
V58.2	RESIDENTIAL	В	67	1	53.6	52.1	-1.5	No	
V59	RESIDENTIAL	В	67	1	52.3	52.0	-0.3	No	
V60	VACANT	G	-	0	53.1	52.5	-0.6	No	
V61	RESIDENTIAL	В	67	1	54.9	54.5	-0.4	No	
V62	RESIDENTIAL	В	67	1	58.1	57.2	-0.9	No	
V63	RESIDENTIAL	В	67	4	49.6	49.4	-0.2	No	
V64	RESIDENTIAL	В	67	1	52.1	51.1	-1.0	No	
V65	RESIDENTIAL	В	67	1	52.7	51.7	-1.0	No	
V66	RESIDENTIAL	В	67	1	53.9	52.7	-1.2	No	
V67	RESIDENTIAL	В	67	1	58.1	56.6	-1.5	No	
V68	RESIDENTIAL	В	67	1	60.4	58.4	-2.0	No	
V69	RESIDENTIAL	В	67	1	63.9	61.6	-2.3	No	
V70	RESIDENTIAL	В	67	3	50.0	49.2	-0.8	No	
V71	RESIDENTIAL	В	67	1	54.9	53.6	-1.3	No	
V72	RESIDENTIAL	В	67	1	57.0	55.3	-1.7	No	
V73	RESIDENTIAL	В	67	1	60.7	58.6	-2.1	No	
V74	RESIDENTIAL	В	67	1	65.9	64.5	-1.4	No	
V75	RESIDENTIAL	В	67	2	53.0	52.0	-1.0	No	
V76	RESIDENTIAL	В	67	1	54.4	53.2	-1.2	No	

Boldface indicates noise levels that approach, equal or exceed the NAC and create an impact.		Boldface	indicates	noise	levels that	at approach,	equal or	exceed the	NAC a	and create	an impact.	
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NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)		Noise Level dB(A) Leq(1h)					
Receiver ID	Duratelia	<u>Ostanom</u>	Criteria	Receptors	E. J. Barr		Future Bui Alternativ	
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)
V77	RESIDENTIAL	В	67	1	54.9	54.2	-0.7	No
V78	PLAYGROUND	С	67	1	57.5	56.2	-1.3	No
V79	RESIDENTIAL	В	67	1	58.2	56.9	-1.3	No
V80	RESIDENTIAL	В	67	1	61.5	59.5	-2.0	No
V81	RESIDENTIAL	В	67	1	65.1	63.6	-1.5	No
V82	RESIDENTIAL	В	67	1	53.7	52.5	-1.2	No
V83	RESIDENTIAL	В	67	1	57.8	56.6	-1.2	No
V84	VACANT	G	-	0	66.7	65.9	-0.8	No
V85	RESIDENTIAL	В	67	1	61.9	59.8	-2.1	No
V86	RESIDENTIAL	В	67	1	64.8	63.4	-1.4	No
V87	RESIDENTIAL	В	67	1	63.9	62.6	-1.3	No
V88	RESIDENTIAL	В	67	1	63.4	62.5	-0.9	No
V89	VACANT	G	-	0	56.6	53.8	-2.8	No
V90	VACANT	G	-	0	59.8	56.9	-2.9	No
V91	VACANT	G	-	0	60.6	58.2	-2.4	No
V92.1	VACANT	G	-	0	57.8	56.6	-1.2	No
V92.2	VACANT	G	-	0	63.5	60.0	-3.5	No
V93	VACANT	G	-	0	59.8	57.8	-2.0	No
V94	VACANT	G	-	0	60.9	59.7	-1.2	No
V95	RESIDENTIAL	В	67	1	54.1	52.0	-2.1	No
V96	RESIDENTIAL	В	67	1	56.0	55.1	-0.9	No
V97	RESIDENTIAL	В	67	2	58.3	56.9	-1.4	No
V98	RESIDENTIAL	В	67	1	61.9	58.6	-3.3	No
V99	VACANT	G	-	0	54.1	52.2	-1.9	No
V100	VACANT	G	-	0	54.7	52.6	-2.1	No
W1	VACANT	G	-	0	49.3	49.5	0.2	No
W2	RETAIL	F	-	0	53.1	51.4	-1.7	No
W3	VACANT	G	-	0	65.9	63.6	-2.3	No

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)			Noise Level dB(A) L _{eq} (1h)				
Receiver ID			Criteria	Receptors		Future Build Alternative		
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)
W4	RETAIL	F	-	0	47.6	52.3	4.7	No
W5	PLACE OF WORSHIP	С	67	1	58.4	55.8	-2.6	No
W6	RETAIL	F	-	0	61.8	60.5	-1.3	No
X1	RESIDENTIAL	В	67	1	56.0	56.2	0.2	No
X2	VACANT	G	-	0	61.6	60.0	-1.6	No
X3	VACANT	G	-	0	59.9	57.6	-2.3	No
X4	VACANT	G	-	0	62.2	62.8	0.6	No
X5	RESIDENTIAL	В	67	1	57.4	56.5	-0.9	No
X6	RESIDENTIAL	В	67	1	54.3	53.6	-0.7	No
X7	VACANT	G	-	0	51.3	50.8	-0.5	No
X8	RESIDENTIAL	В	67	1	63.3	63.7	0.4	No
Х9	RESIDENTIAL	В	67	1	61.6	61.1	-0.5	No
X10	RESIDENTIAL	В	67	1	59.0	58.3	-0.7	No
X11	RESIDENTIAL	В	67	1	54.4	53.4	-1.0	No
X12	RESIDENTIAL	В	67	1	52.7	52.7	0.0	No
X13	RESIDENTIAL	В	67	1	47.2	46.9	-0.3	No
X14.1	RESIDENTIAL	В	67	1	60.1	58.3	-1.8	No
X14.2	RESIDENTIAL	В	67	1	62.6	60.9	-1.7	No
X15	RESIDENTIAL	В	67	1	56.4	54.5	-1.9	No
X16.1	RESIDENTIAL	В	67	1	54.7	52.1	-2.6	No
X16.2	RESIDENTIAL	В	67	1	55.0	54.0	-1.0	No
X17	RESIDENTIAL	В	67	1	51.8	51.1	-0.7	No
X18	VACANT	G	-	0	69.1	67.8	-1.3	No
X19	RESIDENTIAL	В	67	1	58.1	57.0	-1.1	No
X20	VACANT	G	-	0	50.3	50.0	-0.3	No
X21	RESIDENTIAL	В	67	3	48.8	49.0	0.2	No
X22	VACANT	G	-	0	63.4	60.7	-2.7	No
X23	RESIDENTIAL	В	67	1	52.7	52.2	-0.5	No

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)		Noise Level dB(A) L _{eq} (1h)					
Receiver ID	Description	Category	Criteria	Receptors	Existing		Future Bui Alternativ	е
	Description	Calegory	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)
X24	VACANT	G	-	0	67.8	63.5	-4.3	No
X25	VACANT	G	-	0	62.9	60.4	-2.5	No
X26	VACANT	G	-	0	59.5	56.9	-2.6	No
X27	RESIDENTIAL	В	67	1	62.5	60.4	-2.1	No
X28	RESIDENTIAL	В	67	2	52.9	52.9	0.0	No
X29	RESIDENTIAL	В	67	1	53.9	52.8	-1.1	No
X30	RESTAURANT	E	72	1	54.8	54.7	-0.1	No
X31	RESIDENTIAL	В	67	1	63.0	61.7	-1.3	No
X32	PLACE OF WORSHIP	С	67	1	57.4	56.9	-0.5	No
Y1	VACANT	G	-	0	66.4	66.8	0.4	No
Y2	VACANT	G	-	0	64.9	63.0	-1.9	No
Y3	INDUSTRIAL	F	-	0	56.4	53.8	-2.6	No
Y4	VACANT	G	-	0	56.0	55.4	-0.6	No
Y5	VACANT	G	-	0	59.2	59.2	0.0	No
Y6	VACANT	G	-	0	61.6	61.0	-0.6	No
Y7	VACANT	G	-	0	59.9	61.5	1.6	No
Y8	VACANT	G	-	0	58.9	60.9	2.0	No
Y9	INDUSTRIAL	F	-	0	65.4	66.6	1.2	No
Y10	INDUSTRIAL	F	-	0	51.9	52.0	0.1	No
Y11	INDUSTRIAL	F	-	0	55.8	56.6	0.8	No
Y12	VACANT	G	-	0	52.0	53.2	1.2	No
Y13	INDUSTRIAL	F	-	0	65.4	75.1	9.7	No
Z1	RESIDENTIAL	В	67	1	61.1	58.0	-3.1	No
Z2	VACANT	G	-	0	54.8	56.1	1.3	No
Z3	VACANT	G	-	0	55.4	56.6	1.2	No
Z4.1	RESIDENTIAL	В	67	1	68.8	66.2	-2.6	Yes
Z4.2	RESIDENTIAL	В	67	1	74.0	71.3	-2.7	Yes
Z5	VACANT	G	-	0	57.5	57.5	0.0	No

Boldface indicates noise levels that approach, equal or exceed the NAC and create an impact. Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteri (NAC)		Noise Level dB(A) L _{eq} (1h)					
Receiver ID	Description	Category	Criteria	Receptors	Existing		Future Bui Alternativ	
	Description	Calegory	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)
Z6	VACANT	G	-	0	56.3	57.4	1.1	No
Z7	VACANT	G	-	0	70.2	66.3	-3.9	No
Z8	VACANT	G	-	0	72.6	69.7	-2.9	No
Z9	RESIDENTIAL	В	67	2	56.1	57.6	1.5	No
Z10	RESIDENTIAL	В	67	2	56.0	57.7	1.7	No
Z11	PICNIC TABLE	С	67	1	56.8	53.6	-3.2	No
Z13	VACANT	G	-	0	57.6	60.8	3.2	No
Z14	INDUSTRIAL	F	-	0	55.6	57.8	2.2	No
Z15	VACANT	G	-	0	64.8	62.1	-2.7	No
Z16	OFFICE	E	72	1	57.3	57.4	0.1	No
Z17	VACANT	G	-	0	62.9	62.8	-0.1	No
Z18	PLACE OF WORSHIP (NO EXTERIOR USE)	D	52	1	48.9	48.7	-0.2	No
AA1	PLACE OF WORSHIP	С	67	1	64.0	58.5	-5.5	No
AA2	MAINTENANCE FACILITY	F	-	0	58.1	54.7	-3.4	No
AA3	RETAIL	F	-	0	48.7	49.3	0.6	No
AA4	RESIDENTIAL	В	67	4	67.6	66.5	-1.1	Yes
AA5	VACANT	G	-	0	51.4	51.6	0.2	No
AA6	RETAIL	F	-	0	51.0	51.4	0.4	No
AA7	VACANT	G	-	0	68.1	68.3	0.2	No
AA8	RESIDENTIAL	В	67	1	56.2	54.6	-1.6	No
AA9	RESIDENTIAL	В	67	1	55.7	54.0	-1.7	No
AA10	RESIDENTIAL	В	67	1	55.4	53.6	-1.8	No
AA11	RESIDENTIAL	В	67	1	55.1	53.4	-1.7	No
AA12	RESIDENTIAL	В	67	1	54.6	52.9	-1.7	No
AA13	RESIDENTIAL	В	67	3	54.0	52.5	-1.5	No
AA14.1	RESIDENTIAL	В	67	2	50.1	50.7	0.6	No
AA14.2	RESIDENTIAL	В	67	2	52.5	52.3	-0.2	No
AA15	RESIDENTIAL	В	67	4	48.4	48.8	0.4	No

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)				Noise Level dB(A) L _{eq} (1h)				
Receiver ID	Description	Cotorom	Criteria	Receptors	Existing		Future Bui Alternativ		
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)	
AA16-1	RESIDENTIAL	В	67	1	57.4	57.6	0.2	No	
AA16-2	RESIDENTIAL	В	67	3	46.9	46.3	-0.6	No	
AA17	RESIDENTIAL	В	67	1	55.1	56.1	1.0	No	
AA18	RESIDENTIAL	В	67	1	54.2	54.1	-0.1	No	
AA19	RESIDENTIAL	В	67	1	50.5	51.3	0.8	No	
AA20	RESIDENTIAL	В	67	1	50.0	50.6	0.6	No	
AA21	RESIDENTIAL	В	67	1	50.1	50.7	0.6	No	
AA22	RESIDENTIAL	В	67	1	43.6	45.5	1.9	No	
AA23	RESIDENTIAL	В	67	1	42.4	44.0	1.6	No	
AA24	RESIDENTIAL	В	67	1	67.0	67.9	0.9	Yes	
AA25	RESIDENTIAL	В	67	1	66.8	68.0	1.2	Yes	
AA26	RESIDENTIAL	В	67	1	59.9	59.8	-0.1	No	
AA27	RESIDENTIAL	В	67	1	59.5	59.2	-0.3	No	
AA28	RESIDENTIAL	В	67	1	58.6	58.0	-0.6	No	
AA29	RESIDENTIAL	В	67	1	57.2	56.7	-0.5	No	
AA30	RESIDENTIAL	В	67	1	66.3	68.0	1.7	Yes	
AA31	RESIDENTIAL	В	67	1	51.0	52.5	1.5	No	
AA32	RESIDENTIAL	В	67	1	50.6	52.3	1.7	No	
AA33	RESIDENTIAL	В	67	1	48.0	49.8	1.8	No	
AA34	RESIDENTIAL	В	67	1	47.3	48.9	1.6	No	
AA35	RESIDENTIAL	В	67	1	46.1	47.5	1.4	No	
AA36	RESIDENTIAL	В	67	1	44.3	45.6	1.3	No	
AA37	RESIDENTIAL	В	67	1	47.4	47.9	0.5	No	
AA38	RESIDENTIAL	В	67	1	47.5	49.0	1.5	No	
AA39	VACANT	G	-	0	65.4	67.0	1.6	No	
AA40	RESIDENTIAL	В	67	1	48.1	48.3	0.2	No	
AA41	RESIDENTIAL	В	67	1	46.5	47.3	0.8	No	
AA42	RESIDENTIAL	В	67	1	45.9	46.8	0.9	No	

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)		Noise Level dB(A) L _{eq} (1h)					
Receiver ID			Criteria	Receptors	- ·		Future Bui Alternativ	
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)
AA43.1	RESIDENTIAL	В	67	1	43.3	44.0	0.7	No
AA43.2	RESIDENTIAL	В	67	1	45.2	46.4	1.2	No
AA44.1	RESIDENTIAL	В	67	1	49.6	50.5	0.9	No
AA44.2	RESIDENTIAL	В	67	1	51.9	52.7	0.8	No
AA45	RESIDENTIAL	В	67	3	50.9	51.6	0.7	No
AA46	RESIDENTIAL	В	67	3	50.6	51.1	0.5	No
AA47	RESIDENTIAL	В	67	1	50.7	51.4	0.7	No
AA48	RESIDENTIAL	В	67	1	51.0	51.7	0.7	No
AA49	RESIDENTIAL	В	67	2	66.0	68.2	2.2	Yes
AA50.1	RESIDENTIAL	В	67	2	71.4	74.2	2.8	Yes
AA50.2	RESIDENTIAL	В	67	2	73.8	75.1	1.3	Yes
AA50.3	RESIDENTIAL	В	67	2	74.0	75.2	1.2	Yes
AA51.1	RESIDENTIAL	В	67	6	73.8	74.4	0.6	Yes
AA51.2	RESIDENTIAL	В	67	6	74.2	74.8	0.6	Yes
AA52.1	RESIDENTIAL	В	67	4	66.5	67.0	0.5	Yes
AA52.2	RESIDENTIAL	В	67	4	69.5	70.0	0.5	Yes
AA53.1	RESIDENTIAL	В	67	6	66.8	67.1	0.3	Yes
AA53.2	RESIDENTIAL	В	67	6	70.1	70.0	-0.1	Yes
AA53.3	RESIDENTIAL	В	67	6	72.6	72.4	-0.2	Yes
AA54	PLACE OF WORSHIP	С	67	1	52.2	52.4	0.2	No
AA55	VACANT	G	-	0	66.7	66.3	-0.4	No
AA56	VACANT	G	-	0	61.5	60.4	-1.1	No
AA57	VACANT	G	-	0	59.9	58.8	-1.1	No
AA58-1	VACANT	G	-	0	57.6	56.7	-0.9	No
AA58-2	RESIDENTIAL	В	67	3	45.7	45.8	0.1	No
AA59	RESIDENTIAL	В	67	3	51.7	51.5	-0.2	No
AA60	RESIDENTIAL	В	67	2	67.0	66.5	-0.5	Yes
AA61	RESIDENTIAL	В	67	2	68.2	67.3	-0.9	Yes

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)		Noise Level dB(A) L _{eq} (1h)					
Receiver ID			Criteria	Receptors			Future Bui Alternativ	
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)
AA62	RESIDENTIAL	В	67	1	67.3	66.7	-0.6	Yes
AA63	RESIDENTIAL	В	67	3	50.0	50.4	0.4	No
AA64	RESIDENTIAL	В	67	1	67.6	66.8	-0.8	Yes
AA65	RESIDENTIAL	В	67	1	67.0	66.5	-0.5	Yes
AA66	RESIDENTIAL	В	67	2	67.6	66.7	-0.9	Yes
AA67	VACANT	G	-	0	61.1	59.4	-1.7	No
AA68	VACANT	G	-	0	59.6	58.1	-1.5	No
AA69	VACANT	G	-	0	57.9	57.2	-0.7	No
AA70	VACANT	G	-	0	55.7	55.1	-0.6	No
AA71	VACANT	G	-	0	47.4	49.5	2.1	No
AA72.1	RESIDENTIAL	В	67	2	48.3	48.5	0.2	No
AA72.2	RESIDENTIAL	В	67	2	49.6	49.4	-0.2	No
AA73	RESIDENTIAL	В	67	3	49.0	50.7	1.7	No
BB1	RESIDENTIAL	В	67	1	50.6	50.4	-0.2	No
BB2	RESIDENTIAL	В	67	1	55.1	59.7	4.6	No
BB3	RESIDENTIAL	В	67	1	59.1	61.9	2.8	No
BB4	SCHOOL	С	67	1	47.3	47.2	-0.1	No
BB5	RETAIL	F	-	0	63.1	66.5	3.4	No
BB6	INDUSTRIAL	F	-	0	56.9	58.6	1.7	No
BB7	INDUSTRIAL	F	-	0	51.6	51.4	-0.2	No
BB8	INDUSTRIAL	F	-	0	49.0	48.1	-0.9	No
BB9	INDUSTRIAL	F	-	0	46.9	45.8	-1.1	No
BB10	INDUSTRIAL	F	-	0	45.4	51.6	6.2	No
BB11	VACANT	G	-	0	46.1	54.3	8.2	No
BB12	INDUSTRIAL	F	-	0	50.6	49.7	-0.9	No
BB13	INDUSTRIAL	F	-	0	47.7	46.9	-0.8	No
BB14	INDUSTRIAL	F	-	0	50.5	49.9	-0.6	No
BB15	OFFICE	E	72	1	62.4	60.0	-2.4	No

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)		Noise Level dB(A) L _{eq} (1h)					
Receiver ID			Criteria	Receptors		Future Build Alternative		
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)
BB16	RESIDENTIAL	В	67	1	55.5	53.9	-1.6	No
BB17	RESIDENTIAL	В	67	1	51.8	51.1	-0.7	No
BB18	RESIDENTIAL	В	67	1	49.4	48.7	-0.7	No
BB19	PUBLIC OR NONPROFIT INSTITUTIONAL STRUCTURE	С	67	1	69.2	66.9	-2.3	Yes
BB20	RETAIL	F	-	0	54.2	53.2	-1.0	No
BB21	SCHOOL	С	67	1	59.5	59.7	0.2	No
BB22	HOSPITAL	С	67	1	48.6	45.9	-2.7	No
BB23	SCHOOL	С	67	1	58.4	56.4	-2.0	No
BB24	RETAIL	F	-	0	55.8	57.0	1.2	No
BB25	RETAIL	F	-	0	53.6	52.6	-1.0	No
BB26	VACANT	G	-	0	51.8	52.0	0.2	No
BB27	INDUSTRIAL	F	-	0	47.6	47.2	-0.4	No
BB32	VACANT	G	-	0	52.7	57.7	5.0	No
BB35	RETAIL	F	-	0	67.0	68.9	1.9	No
BB36	INDUSTRIAL	F	-	0	56.2	56.5	0.3	No
BB37	SCHOOL	С	67	1	52.5	51.7	-0.8	No
BB38	SCHOOL	С	67	1	65.3	62.7	-2.6	No
BB39	RETAIL	F	-	0	59.7	54.3	-5.4	No
BB40	SCHOOL	С	67	1	57.9	59.4	1.5	No
CC1.1	RESIDENTIAL	В	67	1	69.7	67.0	-2.7	Yes
CC1.2	RESIDENTIAL	В	67	1	71.7	70.6	-1.1	Yes
CC2	RESIDENTIAL	В	67	2	65.8	61.4	-4.4	No
CC3	RESIDENTIAL	В	67	2	66.2	61.8	-4.4	No
CC4.1	RESIDENTIAL	В	67	1	66.0	62.2	-3.8	No
CC4.2	RESIDENTIAL	В	67	1	67.7	66.5	-1.2	Yes
CC5.1	RESIDENTIAL	В	67	2	65.5	62.2	-3.3	No
CC5.2	RESIDENTIAL	В	67	2	67.1	66.1	-1.0	Yes
CC6	RESIDENTIAL	В	67	2	62.0	66.3	4.3	Yes

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)						Noise Level dB(A) L _{eq} (1h)				
Receiver ID			Criteria	Receptors		Future Build Alternative					
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)			
CC7	RESIDENTIAL	В	67	2	58.0	54.0	-4.0	No			
CC8.1	RESIDENTIAL	В	67	1	65.6	64.9	-0.7	No			
CC8.2	RESIDENTIAL	В	67	1	66.8	66.3	-0.5	Yes			
CC9	RESIDENTIAL	В	67	1	58.0	64.9	6.9	No			
CC10	RESIDENTIAL	В	67	20	55.3	52.0	-3.3	No			
CC11	RESIDENTIAL	В	67	6	63.3	63.0	-0.3	No			
CC12	RESIDENTIAL	В	67	2	61.1	64.8	3.7	No			
CC12.1	RESIDENTIAL	В	67	1	52.0	52.2	0.2	No			
CC12.2	RESIDENTIAL	В	67	1	55.5	54.5	-1.0	No			
CC13	RESIDENTIAL	В	67	1	51.9	51.2	-0.7	No			
CC14	RESIDENTIAL	В	67	1	51.3	51.3	0.0	No			
CC16	RESIDENTIAL	В	67	2	55.8	58.0	2.2	No			
CC17	RESIDENTIAL	В	67	2	56.4	57.3	0.9	No			
CC18	RESIDENTIAL	В	67	2	52.3	54.2	1.9	No			
CC19	RESIDENTIAL	В	67	2	50.3	52.7	2.4	No			
CC21	VACANT	G	-	0	66.8	62.3	-4.5	No			
CC22	RESIDENTIAL	В	67	6	64.4	58.0	-6.4	No			
CC23.1	RESIDENTIAL	В	67	1	64.1	65.1	1.0	No			
CC23.2	RESIDENTIAL	В	67	1	66.6	72.6	6.0	Yes			
CC24	RECORDING STUDIO	D	52	1	42.6	39.5	-3.1	No			
DD1	RESIDENTIAL	В	67	2	66.9	65.8	-1.1	No			
DD2	RESIDENTIAL	В	67	2	62.8	61.5	-1.3	No			
DD3	RESIDENTIAL	В	67	2	59.9	59.4	-0.5	No			
DD4	RESIDENTIAL	В	67	5	56.7	56.0	-0.7	No			
DD5	RESIDENTIAL	В	67	6	51.2	50.3	-0.9	No			
DD6	RESIDENTIAL	В	67	2	61.2	61.4	0.2	No			
DD7	RESIDENTIAL	В	67	2	57.8	57.6	-0.2	No			
DD8	RESIDENTIAL	В	67	6	50.0	49.9	-0.1	No			

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)						Noise Level dB(A) L _{eq} (1h)	
Receiver ID			Criteria	Receptors			Future Bui Alternativ	
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)
DD9	RESIDENTIAL	В	67	2	63.1	63.4	0.3	No
DD10	RESIDENTIAL	В	67	5	55.7	55.3	-0.4	No
DD11.10	RESIDENTIAL	В	67	2	72.7	72.5	-0.2	Yes
DD11.11	RESIDENTIAL	В	67	2	72.7	72.3	-0.4	Yes
DD11.12	RESIDENTIAL	В	67	2	72.6	72.3	-0.3	Yes
DD11.13	RESIDENTIAL	В	67	2	72.5	72.2	-0.3	Yes
DD11.14	RESIDENTIAL	В	67	2	72.5	72.1	-0.4	Yes
DD11.2	RESIDENTIAL	В	67	2	68.5	66.6	-1.9	Yes
DD11.3	RESIDENTIAL	В	67	2	71.2	70.3	-0.9	Yes
DD11.4	RESIDENTIAL	В	67	2	71.9	71.4	-0.5	Yes
DD11.5	RESIDENTIAL	В	67	2	72.5	72.6	0.1	Yes
DD11.6	RESIDENTIAL	В	67	2	73.0	72.8	-0.2	Yes
DD11.7	RESIDENTIAL	В	67	2	73.1	72.9	-0.2	Yes
DD11.8	RESIDENTIAL	В	67	2	72.9	72.9	0.0	Yes
DD11.9	RESIDENTIAL	В	67	2	72.9	72.6	-0.3	Yes
DD12.2	RESIDENTIAL	В	67	1	59.5	58.5	-1.0	No
DD12.3	RESIDENTIAL	В	67	1	61.7	61.6	-0.1	No
DD12.4	RESIDENTIAL	В	67	1	65.0	64.0	-1.0	No
DD12.5	RESIDENTIAL	В	67	1	65.8	64.6	-1.2	No
DD12.6	RESIDENTIAL	В	67	1	66.8	66.2	-0.6	Yes
DD12.7	RESIDENTIAL	В	67	1	67.9	67.3	-0.6	Yes
DD12.8	RESIDENTIAL	В	67	1	68.8	68.2	-0.6	Yes
DD12.9	RESIDENTIAL	В	67	1	69.0	68.5	-0.5	Yes
DD12.10	RESIDENTIAL	В	67	1	69.2	68.8	-0.4	Yes
DD12.11	RESIDENTIAL	В	67	1	69.9	69.5	-0.4	Yes
DD12.12	RESIDENTIAL	В	67	1	71.5	71.0	-0.5	Yes
DD12.13	RESIDENTIAL	В	67	1	71.5	71.2	-0.3	Yes
DD12.14	RESIDENTIAL	В	67	1	71.5	71.1	-0.4	Yes

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)					Noise Level dB(A) L _{eq} (1h)				
Receiver ID			Criteria	Receptors			Future Bui Alternativ			
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)		
DD13.2	RESIDENTIAL	В	67	2	57.5	57.0	-0.5	No		
DD13.3	RESIDENTIAL	В	67	2	60.0	59.0	-1.0	No		
DD13.4	RESIDENTIAL	В	67	2	63.3	62.3	-1.0	No		
DD13.5	RESIDENTIAL	В	67	2	64.1	63.3	-0.8	No		
DD13.6	RESIDENTIAL	В	67	2	65.3	64.4	-0.9	No		
DD13.7	RESIDENTIAL	В	67	2	66.9	66.3	-0.6	Yes		
DD13.8	RESIDENTIAL	В	67	2	67.6	67.0	-0.6	Yes		
DD13.9	RESIDENTIAL	В	67	2	68.2	67.6	-0.6	Yes		
DD13.10	RESIDENTIAL	В	67	2	68.5	68.0	-0.5	Yes		
DD13.11	RESIDENTIAL	В	67	2	69.3	68.8	-0.5	Yes		
DD13.12	RESIDENTIAL	В	67	2	69.8	69.4	-0.4	Yes		
DD13.13	RESIDENTIAL	В	67	2	70.8	70.3	-0.5	Yes		
DD13.14	RESIDENTIAL	В	67	2	71.0	70.6	-0.4	Yes		
DD14.2	RESIDENTIAL	В	67	2	54.5	54.0	-0.5	No		
DD14.3	RESIDENTIAL	В	67	2	56.3	55.0	-1.3	No		
DD14.4	RESIDENTIAL	В	67	2	58.3	58.5	0.2	No		
DD14.5	RESIDENTIAL	В	67	2	61.2	60.5	-0.7	No		
DD14.6	RESIDENTIAL	В	67	2	61.9	61.4	-0.5	No		
DD14.7	RESIDENTIAL	В	67	2	63.6	63.0	-0.6	No		
DD14.8	RESIDENTIAL	В	67	2	64.8	63.8	-1.0	No		
DD14.9	RESIDENTIAL	В	67	2	65.8	65.2	-0.6	No		
DD14.10	RESIDENTIAL	В	67	2	66.6	66.1	-0.5	Yes		
DD14.11	RESIDENTIAL	В	67	2	68.0	67.5	-0.5	Yes		
DD14.12	RESIDENTIAL	В	67	2	68.6	68.1	-0.5	Yes		
DD14.13	RESIDENTIAL	В	67	2	69.0	68.5	-0.5	Yes		
DD14.14	RESIDENTIAL	В	67	2	69.2	68.6	-0.6	Yes		
DD16.2	RESIDENTIAL	В	67	1	64.9	62.9	-2.0	No		
DD16.3	RESIDENTIAL	В	67	1	67.8	64.8	-3.0	No		

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NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)				Noise Level dB(A) L _{eq} (1h)				
Receiver ID			Criteria	Receptors			Future Bui Alternativ		
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)	
DD16.4	RESIDENTIAL	В	67	1	68.7	67.4	-1.3	Yes	
DD16.5	RESIDENTIAL	В	67	1	69.1	68.0	-1.1	Yes	
DD16.6	RESIDENTIAL	В	67	1	69.3	68.4	-0.9	Yes	
DD16.7	RESIDENTIAL	В	67	1	69.4	69.2	-0.2	Yes	
DD16.8	RESIDENTIAL	В	67	1	69.5	69.2	-0.3	Yes	
DD16.9	RESIDENTIAL	В	67	1	69.5	69.1	-0.4	Yes	
DD16.10	RESIDENTIAL	В	67	1	69.5	69.3	-0.2	Yes	
DD16.11	RESIDENTIAL	В	67	1	70.1	69.8	-0.3	Yes	
DD16.12	RESIDENTIAL	В	67	1	71.6	71.0	-0.6	Yes	
DD16.13	RESIDENTIAL	В	67	1	71.5	71.1	-0.4	Yes	
DD16.14	RESIDENTIAL	В	67	1	71.5	71.0	-0.5	Yes	
DD17.2	RESIDENTIAL	В	67	2	63.4	62.3	-1.1	No	
DD17.3	RESIDENTIAL	В	67	2	67.0	63.6	-3.4	No	
DD17.4	RESIDENTIAL	В	67	2	67.8	65.6	-2.2	No	
DD17.5	RESIDENTIAL	В	67	2	68.6	67.0	-1.6	Yes	
DD17.6	RESIDENTIAL	В	67	2	68.6	67.7	-0.9	Yes	
DD17.7	RESIDENTIAL	В	67	2	68.8	67.9	-0.9	Yes	
DD17.8	RESIDENTIAL	В	67	2	68.9	68.6	-0.3	Yes	
DD17.9	RESIDENTIAL	В	67	2	68.9	68.6	-0.3	Yes	
DD17.10	RESIDENTIAL	В	67	2	69.0	68.7	-0.3	Yes	
DD17.11	RESIDENTIAL	В	67	2	69.6	69.2	-0.4	Yes	
DD17.12	RESIDENTIAL	В	67	2	70.0	69.7	-0.3	Yes	
DD17.13	RESIDENTIAL	В	67	2	71.0	70.5	-0.5	Yes	
DD17.14	RESIDENTIAL	В	67	2	71.1	70.7	-0.4	Yes	
DD18.2	RESIDENTIAL	В	67	2	61.3	60.9	-0.4	No	
DD18.3	RESIDENTIAL	В	67	2	64.1	61.2	-2.9	No	
DD18.4	RESIDENTIAL	В	67	2	66.4	62.8	-3.6	No	
DD18.5	RESIDENTIAL	В	67	2	67.0	64.7	-2.3	No	

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)					Noise Level dB(A) L _{eq} (1h)				
Receiver ID			Criteria	Receptors			Future Bui Alternativ			
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)		
DD18.6	RESIDENTIAL	В	67	2	67.7	66.0	-1.7	Yes		
DD18.7	RESIDENTIAL	В	67	2	67.6	66.2	-1.4	Yes		
DD18.8	RESIDENTIAL	В	67	2	67.6	66.3	-1.3	Yes		
DD18.9	RESIDENTIAL	В	67	2	67.6	66.5	-1.1	Yes		
DD18.10	RESIDENTIAL	В	67	2	67.8	67.3	-0.5	Yes		
DD18.11	RESIDENTIAL	В	67	2	68.3	67.8	-0.5	Yes		
DD18.12	RESIDENTIAL	В	67	2	68.7	68.2	-0.5	Yes		
DD18.13	RESIDENTIAL	В	67	2	69.1	68.6	-0.5	Yes		
DD18.14	RESIDENTIAL	В	67	2	69.2	68.8	-0.4	Yes		
EE1	HOSPITAL (NO EXTERIOR USE)	D	52	1	44.8	44.0	-0.8	No		
EE2	HOSPITAL (NO EXTERIOR USE)	D	52	1	33.7	35.5	1.8	No		
FF1	INDUSTRIAL	F	-	0	63.8	56.6	-7.2	No		
FF2	VACANT	G	-	0	73.7	69.8	-3.9	No		
FF3	INDUSTRIAL	F	-	0	70.5	69.6	-0.9	No		
FF4	INDUSTRIAL	F	-	0	53.2	53.9	0.7	No		
FF5	INDUSTRIAL	F	-	0	58.3	59.1	0.8	No		
FF6	OFFICE	E	72	1	63.0	62.8	-0.2	No		
FF7	VACANT	G	-	0	55.0	56.2	1.2	No		
FF8	OFFICE	E	72	1	65.5	65.5	0.0	No		
GG1	RESIDENTIAL	В	67	4	54.7	52.1	-2.6	No		
GG2	RESIDENTIAL	В	67	3	51.0	50.2	-0.8	No		
GG3	RESIDENTIAL	В	67	2	54.9	53.8	-1.1	No		
GG4	RESIDENTIAL	В	67	2	56.0	54.6	-1.4	No		
GG5	RESIDENTIAL	В	67	2	58.3	55.4	-2.9	No		
GG6	RESIDENTIAL	В	67	2	60.2	56.8	-3.4	No		
GG7	RESIDENTIAL	В	67	2	55.1	53.0	-2.1	No		
GG8	RESIDENTIAL	В	67	2	52.7	51.9	-0.8	No		
GG9	RESIDENTIAL	В	67	2	53.1	52.3	-0.8	No		

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)					Noise Level dB(A) L _{eq} (1h)				
Receiver ID			Criteria	Receptors			Future Bui Alternativ			
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)		
GG10	RESIDENTIAL	В	67	2	54.6	53.2	-1.4	No		
GG11	RESIDENTIAL	В	67	2	50.6	49.7	-0.9	No		
GG12	RESIDENTIAL	В	67	2	50.9	49.9	-1.0	No		
GG13	RESIDENTIAL	В	67	2	51.9	51.0	-0.9	No		
GG14	RESIDENTIAL	В	67	2	52.5	51.5	-1.0	No		
GG15	RESIDENTIAL	В	67	8	50.0	48.7	-1.3	No		
GG16	RESIDENTIAL	В	67	4	46.6	46.4	-0.2	No		
GG17	PLAYGROUND	С	67	1	46.6	46.1	-0.5	No		
GG18	RESIDENTIAL	В	67	8	44.4	43.6	-0.8	No		
GG19	RESIDENTIAL	В	67	150	67.2	63.8	-3.4	No		
GG20	PLAYGROUND	С	67	1	62.9	59.3	-3.6	No		
GG21	RESIDENTIAL	В	67	4	55.5	52.9	-2.6	No		
GG22	RESIDENTIAL	В	67	4	46.5	45.1	-1.4	No		
GG23	RESIDENTIAL	В	67	4	49.5	46.7	-2.8	No		
GG24	PLAYGROUND	С	67	1	53.1	50.6	-2.5	No		
GG25	PLAYGROUND	С	67	1	54.6	50.3	-4.3	No		
GG26	RESIDENTIAL	В	67	4	53.7	50.2	-3.5	No		
GG27	RESIDENTIAL	В	67	10	56.3	52.5	-3.8	No		
GG28	RESIDENTIAL	В	67	8	51.6	47.8	-3.8	No		
GG29	RESIDENTIAL	В	67	4	43.2	42.8	-0.4	No		
GG30	RESIDENTIAL	В	67	4	46.8	46.9	0.1	No		
GG31	RESIDENTIAL	В	67	6	54.8	51.3	-3.5	No		
GG32	PLAYGROUND	С	67	1	55.8	51.8	-4.0	No		
GG33	RESIDENTIAL	В	67	6	49.2	46.8	-2.4	No		
GG34	RESIDENTIAL	В	67	4	54.1	51.1	-3.0	No		
GG35	RESIDENTIAL	В	67	2	48.8	47.0	-1.8	No		
GG36	RESIDENTIAL	В	67	2	54.1	50.1	-4.0	No		
GG37	RESIDENTIAL	В	67	2	43.4	42.7	-0.7	No		

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)						Noise Level dB(A) L _{eq} (1h)	
Receiver ID			Criteria	Receptors			Future Bui Alternativ	
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)
GG38	RESIDENTIAL	В	67	2	43.9	43.1	-0.8	No
GG39	RESIDENTIAL	В	67	2	46.8	46.8	0.0	No
GG40	RESIDENTIAL	В	67	2	47.8	47.4	-0.4	No
GG41	RESIDENTIAL	В	67	6	57.4	53.5	-3.9	No
GG42	RESIDENTIAL	В	67	2	57.4	55.6	-1.8	No
GG43	RESIDENTIAL	В	67	2	61.1	59.7	-1.4	No
GG44	RESIDENTIAL	В	67	2	63.8	63.4	-0.4	No
GG45	RESIDENTIAL	В	67	2	63.2	58.6	-4.6	No
GG46	RESIDENTIAL	В	67	2	60.5	55.1	-5.4	No
GG47	RESIDENTIAL	В	67	2	58.5	53.8	-4.7	No
GG48	RESIDENTIAL	В	67	2	66.5	63.5	-3.0	No
GG49	RESIDENTIAL	В	67	2	65.7	61.1	-4.6	No
GG50	RESIDENTIAL	В	67	2	60.6	57.2	-3.4	No
GG51	RESIDENTIAL	В	67	2	53.9	50.5	-3.4	No
GG52	RESIDENTIAL	В	67	2	55.6	52.7	-2.9	No
GG53	RESIDENTIAL	В	67	2	58.3	57.2	-1.1	No
GG54	INDUSTRIAL	F	-	0	71.4	65.0	-6.4	No
HH1	RESIDENTIAL	В	67	3	51.7	53.6	1.9	No
HH2	RESIDENTIAL	В	67	1	53.6	55.8	2.2	No
HH3	INDUSTRIAL	F	-	0	62.7	61.9	-0.8	No
HH4	VACANT	G	-	0	62.8	65.8	3.0	No
HH5	VACANT	G	-	0	52.2	50.1	-2.1	No
HH6	INDUSTRIAL	F	-	0	57.2	55.1	-2.1	No
111	VACANT	G	-	0	56.6	57.0	0.4	No
ll2	VACANT	G	-	0	59.3	57.7	-1.6	No
113	VACANT	G	-	0	54.5	55.0	0.5	No
114	PLACE OF WORSHIP	С	67	1	59.1	59.3	0.2	No
II5	RESIDENTIAL	В	67	4	54.6	53.4	-1.2	No

Boldface indicates noise levels that approach, equal or exceed the NAC and create an impact. Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor. NAC Category D – Building – All, window closed – Ordinary sash; Noise reduction due to exterior of structure – 20 dB.

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	Noise Abatement Criteria (NAC)					Noise Level dB(A) L _{eq} (1h)				
Receiver ID			Criteria	Receptors			Future Bui Alternativ			
	Description	Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)		
116	PLACE OF WORSHIP	С	67	1	57.0	55.7	-1.3	No		
117	RETAIL	F	-	0	60.8	60.9	0.1	No		
ll8.1	RESIDENTIAL	В	67	2	50.1	48.8	-1.3	No		
118.2	RESIDENTIAL	В	67	1	51.9	51.2	-0.7	No		
119.1	RESIDENTIAL	В	67	2	50.6	51.4	0.8	No		
119.2	RESIDENTIAL	В	67	1	51.0	52.7	1.7	No		
II10.1	RESIDENTIAL	В	67	1	55.7	56.3	0.6	No		
II10.2	RESIDENTIAL	В	67	1	57.8	58.5	0.7	No		
11	RESIDENTIAL	В	67	3	54.0	54.4	0.4	No		
II12	RETAIL	F	-	0	66.5	67.8	1.3	No		
II13	RETAIL	F	-	0	65.6	66.5	0.9	No		
1114	VACANT	G	-	0	58.4	59.4	1.0	No		
II15.1	RESIDENTIAL	В	67	3	51.2	52.6	1.4	No		
II15.2	RESIDENTIAL	В	67	1	53.7	54.2	0.5	No		
II16	RETAIL	F	-	0	60.8	61.9	1.1	No		
ll17	RESIDENTIAL	В	67	4	68.0	68.0	0.0	Yes		
II18	RESIDENTIAL	В	67	1	65.6	65.7	0.1	No		
1119	RESIDENTIAL	В	67	1	71.8	73.3	1.5	Yes		
II20	VACANT	G	-	0	57.1	59.1	2.0	No		
ll21	RESIDENTIAL	В	67	2	54.7	56.6	1.9	No		
1122	RESIDENTIAL	В	67	1	56.8	59.0	2.2	No		
II23.1	RESIDENTIAL	В	67	1	58.6	62.6	4.0	No		
II23.2	RESIDENTIAL	В	67	1	62.0	66.1	4.1	Yes		
1124	VACANT	G	-	0	57.0	59.2	2.2	No		
II25	RESIDENTIAL	В	67	1	62.8	67.5	4.7	Yes		
ll26	RESIDENTIAL	В	67	1	65.9	70.8	4.9	Yes		
1127	RESIDENTIAL	В	67	1	67.1	69.5	2.4	Yes		
II28	RESIDENTIAL	В	67	3	51.2	53.1	1.9	No		

Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

NAC Category D - Building - All, window closed - Ordinary sash; Noise reduction due to exterior of structure - 20 dB.

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	Noise Abatement Criteria (NAC)						Noise Level dB(A) L _{eq} (1h)	
Receiver ID	Description	Category	Criteria	Receptors	Existing		Future Bui Alternativ	
		Category	L _{eq} (h)		Existing	NL	Change from Existing	Impact (Yes/No)
ll29.1	RESIDENTIAL	В	67	1	53.6	56.2	2.6	No
1129.2	RESIDENTIAL	В	67	1	57.4	59.4	2.0	No
1130	RESIDENTIAL	В	67	3	55.2	56.9	1.7	No
II31	RESIDENTIAL	В	67	1	56.1	59.3	3.2	No
1132	VACANT	G	-	0	51.6	55.5	3.9	No
1133	VACANT	G	-	0	53.2	56.5	3.3	No
1134	RESIDENTIAL	В	67	2	55.3	58.6	3.3	No
II35	RESIDENTIAL	В	67	3	49.0	51.3	2.3	No
II36.1	RESIDENTIAL	В	67	2	51.8	53.5	1.7	No
II36.2	RESIDENTIAL	В	67	1	54.1	56.7	2.6	No
1137	VACANT	G	-	0	55.5	58.3	2.8	No
1138	VACANT	G	-	0	60.2	65.0	4.8	No
1139	RESIDENTIAL	В	67	2	50.8	53.6	2.8	No
1140	VACANT	G	-	0	52.9	55.1	2.2	No
1141	PLACE OF WORSHIP	С	67	1	55.8	58.0	2.2	No
1142	RESIDENTIAL	В	67	1	57.8	60.0	2.2	No

 Boldface
 indicates noise levels that approach, equal or exceed the NAC and create an impact.

 Receiver IDs with a decimal point (.) indicates floor. For example, B2.1, indicates first floor; B2.2, indicates second floor, etc. If there is not a decimal point, it is first floor.

 NAC Category D – Building – All, window closed – Ordinary sash; Noise reduction due to exterior of structure – 20 dB.

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Appendix D: Abatement Analysis Results per Receiver, dB(A) $L_{eq(1h)}$

| RECEIVER ID | DESCRIPTION | CATEGORY | CRITERIA | RECEPTORS

 | FUTURE
W/O BARRIER | IMPACT | FUTURE W/
BARRIER | NOISE BARRIER
REDUCTION | BENEFITED
RECEPTOR | | | | |

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---|--|---|---|---|--|---|---|--|---|---|--
--|---|---|
| NB 1
B1 - REC 4 | Restaurant | E | 72 | 1

 | 57.4 | No | 54.2 | 3.2 | No | | | | |

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| B2.1 - REC 78 | Residential | В | 67 | 2

 | 72.5 | Yes | 68.2 | 4.3 | No | | | | |

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 | | | | | | | | | | | | |
| B2.2 - REC 6 | Residential | В | 67 | 2

 | 67.9
42 5 | Yes | 64.9
60.2 | 3.0 | No | | | | |

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 | | | | | | | | | | | | |
| B3 - REC 5
B4 - REC 8 | Residential
Residential | B | 67
67 | 2

 | 63.5
57.9 | No
No | 54.6 | 3.3
3.3 | No | | | | |

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 | | | | | | | | | | | | |
| B5 - REC 7 | Residential | B | 67 | 2

 | 67.5 | Yes | 63.5 | 4.0 | No | | | | |

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 | | | | | | | | | | | | |
| B6 - REC 11 | Residential | B | 67 | 1

 | 59.4 | No | 55.5 | 3.9 | No | | | | |

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 | | | | | | | | | | | | |
| B7 - REC 9 | Residential | В | 67 | 1

 | 60.2 | No | 56.2 | 4.0 | No | | | | |

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| B8 - REC 10 | Residential | В | 67 | 2

 | 59 | No | 55.1 | 3.9 | No | | | | |

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 | | | | | | | | | | | | |
| B9 - REC 13
NB 2 | Residential | В | 67 | 5

 | 57.6 | No | 54.1 | 3.5 | No | | | | |

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 | | | | | | | | | | | | |
| II4 - REC 2231 | Place of Worship | С | 67 | 1

 | 59.3 | No | 59.1 | 0.2 | No | | | | |

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 | | | | | | | | | | | | |
| II5 - REC 2249 | Residential | B | 67 | 4

 | 53.4 | No | 53.3 | 0.1 | No | | | | |

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| II8.1 - REC 2223 | Residential | В | 67 | 2

 | 48.8 | No | 48.6 | 0.2 | No | | | | |

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| II8.2 - REC 2247 | Residential | В | 67 | 1

 | 51.2 | No | 51.1 | 0.1 | No | | | | |

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| II9.1 - REC 2226 | Residential | В | 67 | 2

 | 51.4 | No | 50.4 | 1.0 | No | | | | |

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| II9.2 - REC 2246
II10.1 - REC 2227 | Residential | В | 67 | 1

 | 52.7
56.3 | No | 50.7
54.9 | 2.0 | No | | | | |

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| II10.1 - REC 2227
II10.2 - REC 2244 | Residential
Residential | B | 67 | 1

 | 58.5 | No | 54.9 | 1.4 | No | | | | |

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 | | | | | | | | | | | | |
| II11 - REC 2219 | Residential | B | 67
67 | 3

 | 54.4 | No
No | 54 | 1.1
0.4 | No | | | | |

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| II15.1 - REC 2214 | Residential | B | 67 | 3

 | 52.6 | No | 48.9 | 3.7 | No | | | | |

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| II15.2 - REC 2243 | Residential | B | 67 | 1

 | 54.2 | No | 51.1 | 3.1 | No | | | | |

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| II6 - REC 2230 | Place of Worship | С | 67 | 1

 | 55.7 | No | 55.7 | 0.0 | No | | | | |

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 | | | | | | | | | | | | |
| II17 - REC 2242 | Residential | В | 67 | 4

 | 68.0 | Yes | 63 | 5.0 | Yes | | | | |

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| II18 - REC 2211 | Residential | В | 67 | 1

 | 65.7 | No | 62.1 | 3.6 | No | | | | |

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| II19 - REC 2210 | Residential | B | 67 | 1

 | 73.3 | Yes | 67.7
53.4 | 5.6 | Yes | | | | |

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 | | | | | | | | | | | | |
| II21 - REC 2207
II22 - REC 2208 | Residential
Residential | B | 67 | 2

 | 56.6
59.0 | No | 53.4
54.8 | 3.2 | No | | | | |

 | | | | | | | | | | | | |
 | | |
 | | | | | | | | | | | | |
| II22 - REC 2200 | Residential | B | 67
67 | 1

 | 62.6 | No
No | 57.5 | 4.2
5.1 | No
Yes | | | | |

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| II23.2 - REC 2240 | Residential | B | 67 | 1

 | 66.1 | Yes | 59.5 | 6.6 | Yes | | | | |

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| II25 - REC 2203 | Residential | B | 67 | 1

 | 67.5 | Yes | 59.5 | 8.0 | Yes | | | | |

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| II26 - REC 2204 | Residential | В | 67 | 1

 | 70.8 | Yes | 61.7 | 9.1 | Yes | | | | |

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| II27 - REC 2205 | Residential | В | 67 | 1

 | 69.5 | Yes | 63.5 | 6.0 | Yes | | | | |

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 | | | | | | | | | | | | |
| II28 - REC 2190 | Residential | В | 67 | 3

 | 53.1 | No | 48.4 | 4.7 | No | | | | |

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| II29.1 - REC 2197 | Residential | В | 67 | 1

 | 56.2 | No | 51.3 | 4.9 | Yes | | | | |

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 | | | | | | | | | | | | |
| II29.2 - REC 2237
II30 - REC 2195 | Residential
Residential | В | 67 | 1

 | 59.4
56.9 | No | 53.2
51.5 | 6.2 | Yes | | | | |

 | | | | | | | | | | | | |
 | | |
 | | | | | | | | | | | | |
| II30 - REC 2195 | Residential | B | 67
67 | 3

 | 59.3 | No
No | 55.1 | 5.4 | Yes
No | | | | |

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| II34 - REC 2200 | Residential | B | 67 | 2

 | 58.6 | No | 56.1 | 2.5 | No | | | | |

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| II35 - REC 2184 | Residential | B | 67 | 3

 | 51.3 | No | 47.2 | 4.1 | No | | | | |

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| II36.1 - REC 2187 | Residential | B | 67 | 2

 | 53.5 | No | 52.4 | 1.1 | No | | | | |

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 | | | | | | | | | | | | |
| II39 - REC 2235 | Residential | В | 67 | 2

 | 53.6 | No | 51.4 | 2.2 | No | | | | |

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| NB 3 | Desidential | | |

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| B18 - REC 25 | Residential | В | 67 | 1

 | 60 | No | 58.8 | 1.2 | No | | | | |

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 | | | | | | | | | | | | |
| B18 - REC 25
B19 - REC 24 | Residential | BB | 67
67 | 1

 | 60
68.9 | No
Yes | 65.9 | 3.0 | No
No | | | | |

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 | | | | | | | | | | | | |
| B18 - REC 25
B19 - REC 24
B20 - REC 26 | Residential
Residential | B
B
B | 67
67
67 | 1
1
2

 | 60
68.9
56.4 | No
Yes
No | 65.9
55.3 | 3.0
1.1 | No
No
No | | | | |

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| B18 - REC 25
B19 - REC 24
B20 - REC 26 | Residential | B
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B
B | 67
67
67
67 | 1

 | 60
68.9 | No
Yes
No
Yes | 65.9 | 3.0
1.1
3.9 | No
No
No | | | | |

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 | | | | | | | | | | | | |
| B18 - REC 25
B19 - REC 24
B20 - REC 26
B21 - REC 29
B22 - REC 33
B23 - REC 34 | Residential
Residential
Residential | B
B
B | 67
67
67 | 1
1
2
2

 | 60
68.9
56.4
68.2 | No
Yes
No | 65.9
55.3
64.3 | 3.0
1.1 | No
No
No | | | | |

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 | | | | | | | | | | | | |
| B18 - REC 25
B19 - REC 24
B20 - REC 26
B21 - REC 29
B22 - REC 33
B23 - REC 34
B24 - REC 31 | Residential
Residential
Residential
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Residential
Residential | B
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67
67
67
67
67 | 1
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2

 | 60
68.9
56.4
68.2
58.4
54.8
53.6 | No
Yes
No
Yes
No | 65.9
55.3
64.3
55.7
51.9
50.4 | 3.0
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3.9
2.7 | No
No
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No | | | | |

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| B18 - REC 25
B19 - REC 24
B20 - REC 26
B21 - REC 29
B22 - REC 33
B23 - REC 34
B24 - REC 34
B25 - REC 31
B25 - REC 28 | Residential
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68.9
56.4
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53.6
67.4 | No
Yes
No
Yes
No
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Yes | 65.9
55.3
64.3
55.7
51.9
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63.1 | 3.0
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2.7
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4.3 | No
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No | | | | |

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| B18 - REC 25 B19 - REC 24 B20 - REC 26 B21 - REC 29 B22 - REC 33 B23 - REC 34 B24 - REC 31 B25 - REC 28 B25.1 - REC 81 | Residential
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67.4
54 | No
Yes
No
No
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No | 65.9
55.3
64.3
55.7
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3.8 | No
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| B18 - REC 25 B19 - REC 24 B20 - REC 26 B21 - REC 29 B22 - REC 33 B23 - REC 34 B24 - REC 31 B25 - REC 28 B28.1 - REC 81 B28.1 - REC 82 | Residential
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 | 60 68.9 56.4 68.2 58.4 54.8 53.6 67.4 54 56.5 | No Yes No Yes No No Yes No Yes No Yes No No No No | 65.9
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51.9 | 3.0
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3.8
4.6 | No | | | | |

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| B18 - REC 25 B19 - REC 24 B20 - REC 26 B21 - REC 29 B22 - REC 33 B23 - REC 34 B24 - REC 31 B25 - REC 28 B28.1 - REC 81 B28.2 - REC 82 B28.2 - REC 82 B29.1 - REC 81 B28.2 - REC 82 B29.1 - REC 84 | Residential
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 | 60 68.9 56.4 68.2 58.4 54.8 53.6 67.4 54. 56.5 52.8 | No Yes No Yes No No Yes No Yes No Yes No No No No No No No No | 65.9
55.3
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3.6 | No | | | | |

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| B18 - REC 25 B19 - REC 24 B20 - REC 26 B21 - REC 29 B22 - REC 33 B23 - REC 34 B24 - REC 31 B25 - REC 28 B28.1 - REC 81 B28.2 - REC 82 | Residential
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 | 60 68.9 56.4 68.2 58.4 54.8 53.6 67.4 54 56.5 | No
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3.8 | No | | | | |

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| B18 - REC 25 B19 - REC 24 B20 - REC 26 B21 - REC 27 B22 - REC 33 B23 - REC 34 B24 - REC 31 B25 - REC 28 B28.1 - REC 81 B28.2 - REC 82 B29.1 - REC 54 B29.1 - REC 54 B29.1 - REC 54 | Residential
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 | 60 68.9 56.4 68.2 58.4 54.8 53.6 67.4 56.5 52.8 55.3 | No Yes No Yes No No Yes No Yes No Yes No No No No No No No No | 65.9
55.3
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49.2
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3.6 | No | | | | |

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| B18 - REC 25 B19 - REC 24 B20 - REC 26 B21 - REC 27 B22 - REC 33 B23 - REC 34 B24 - REC 31 B25 - REC 31 B26 - REC 31 B27 - REC 81 B28 - REC 82 B291 - REC 54 B292 - REC 55 B30 - REC 51 B31.1 - REC 53 | Residential
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 | 60 68.9 56.4 68.2 58.4 54.8 53.6 67.4 56.5 52.8 55.3 51.4 53.7 49.3 | No
Yes
No
Yes
No
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Yes
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No | 65.9
55.3
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46.5 | 3.0
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2.8 | No | | | | |

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| B18 - REC 25 B19 - REC 24 B20 - REC 26 B21 - REC 27 B22 - REC 33 B23 - REC 34 B24 - REC 31 B25 - REC 28 B281 - REC 81 B291 - REC 54 B291 - REC 54 B291 - REC 54 B291 - REC 54 B301 - REC 50 B301 - REC 51 B311 - REC 53 B311 - REC 53 B312 - REC 46 | Residential
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 | 60 68.9 56.4 68.2 58.4 54.8 53.6 67.4 56.5 52.8 55.3 51.4 53.7 49.3 51 | No
Yes
No
Yes
No
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Yes
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No
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No
No | 65.9
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| B18 - REC 25 B19 - REC 24 B20 - REC 26 B21 - REC 29 B22 - REC 33 B23 - REC 34 B24 - REC 31 B25 - REC 28 B28.1 - REC 81 B29.2 - REC 82 B29.1 - REC 54 B29.2 - REC 55 B30.1 - REC 50 B30.2 - REC 51 B31.2 - REC 46 B32.2 - REC 46 B32.2 - REC 41 | Residential
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 | 60 68.9 56.4 68.2 58.4 53.6 67.4 54.8 55.5 52.8 55.3 51.4 53.7 49.3 51 52.2 | No Yes No No No Yes No Yes No | 65.9
55.3
64.3
55.7
51.9
50.4
63.1
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51.5
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49.9
46.5
47.7
49.5 | 3.0
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| B18 - REC 25 B19 - REC 24 B20 - REC 26 B21 - REC 29 B22 - REC 33 B23 - REC 34 B24 - REC 31 B25 - REC 28 B28.1 - REC 81 B28.2 - REC 82 B29.1 - REC 54 B29.2 - REC 55 B30.1 - REC 50 B30.1 - REC 53 B31.1 - REC 53 B31.2 - REC 46 B32.2 - REC 41 B32.2 - REC 43 | Residential
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 | 60 68.9 56.4 68.2 58.4 53.6 67.4 54.8 56.5 52.8 55.3 51.4 53.7 49.3 51.2 52.2 53.7 | No Yes No Yes No Yes No Yes No | 65.9
55.3
64.3
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50.7 | 3.0
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| B18 - REC 25 B19 - REC 24 B20 - REC 26 B21 - REC 27 B22 - REC 33 B23 - REC 34 B24 - REC 31 B25 - REC 31 B26 - REC 82 B29 - REC 82 B29 - REC 54 B29 - REC 55 B30 - REC 51 B31 - REC 53 B31 - REC 53 B31 - REC 41 B32 - REC 41 B32 - REC 43 B32 - REC 44 | Residential
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 | 60 68.9 56.4 68.2 58.4 53.6 67.4 54.8 55.5 52.8 55.3 51.4 53.7 49.3 51 52.2 | No Yes No Yes No No Yes No Yes No Yes No | 65.9
55.3
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50.2
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49.5 | 3.0
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| B18 - REC 25 B19 - REC 24 B20 - REC 26 B21 - REC 27 B22 - REC 33 B23 - REC 34 B24 - REC 31 B25 - REC 28 B26 - REC 28 B27 - REC 81 B28 - REC 82 B29 - REC 54 B29 - REC 54 B29 - REC 55 B30 - REC 51 B31 - REC 53 B31 - REC 53 B32 - REC 46 B32 - REC 43 B32 - REC 47 B32 - REC 47 B33 - REC 56 | Residential
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 | 60 68.9 56.4 68.2 58.4 54.8 53.6 67.4 56.5 52.8 55.3 51.4 53.7 49.3 51 52.2 53.7 53.7 | No Yes No Yes No Yes No Yes No | 65.9 55.3 64.3 55.7 51.9 50.4 63.1 50.2 51.9 49.2 51.5 47.8 49.9 46.5 47.7 49.5 50.7 49.9 | 3.0
1.1
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| B18 - REC 25 B19 - REC 24 B20 - REC 26 B21 - REC 27 B22 - REC 33 B23 - REC 34 B24 - REC 31 B25 - REC 31 B28 - REC 82 B291 - REC 81 B291 - REC 54 B292 - REC 55 B30.2 - REC 50 B31.1 - REC 51 B31.2 - REC 46 B32.1 - REC 41 B32.2 - REC 43 B32.3 - REC 47 B33 - REC 57 B34 - REC 57 B35 - REC 72 | Residential
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 | 60 68.9 56.4 68.2 58.4 53.6 67.4 54.8 55.3 51.4 53.7 53.7 53.7 53.7 53.7 53.7 53.7 59.7 56.6 | No Yes No Yes No No Yes No Yes No | 65.9 55.3 64.3 55.7 51.9 50.4 63.1 50.2 51.9 49.2 51.5 47.7 49.5 50.7 49.5 50.7 49.5 50.7 53.3 | 3.0
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| B18 - REC 25 B19 - REC 24 B20 - REC 26 B21 - REC 27 B22 - REC 33 B23 - REC 34 B24 - REC 31 B25 - REC 28 B29.1 - REC 81 B29.2 - REC 55 B30.1 - REC 50 B30.2 - REC 51 B31.1 - REC 53 B31.2 - REC 41 B32.2 - REC 43 B32.3 - REC 56 B34 - REC 57 B35.1 - REC 72 B35.1 - REC 72 | Residential
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REC 25 B19 - REC 24 B20 - REC 26 B21 - REC 27 B22 - REC 33 B23 - REC 34 B24 - REC 31 B25 - REC 32 B29 - REC 82 B29 - REC 54 B29 - REC 55 B30 - REC 50 B31 - REC 51 B31 - REC 51 B32 - REC 53 B32 - REC 54 B32 - REC 54 B32 - REC 51 B31 - REC 51 B31 - REC 51 B32 - REC 41 B32 - REC 57 B35 - REC 57 B35 - REC 57 B35 - REC 58 B36 - REC 58 B36 - REC 58 B37 - REC 61 B38 - REC 64 B38 - REC 65 B39 - REC 65 B39 - REC 65 B39 - REC 65</td><td>Residential Residential Residential</td><td>B B</td><td>$\begin{array}{c} 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\$</td><td>1 2 2 2 2 2 2 1 1 1 1 3 2 1 1 2 3 4 3 4 3 2 2 3 1 <tr td=""> <!--</td--><td>60 68.9 56.4 68.2 58.4 53.6 67.4 54.8 53.6 57.5 51.4 53.7 53.7 53.7 53.7 53.7 55.3 51.4 55.7 55.7 55.1 57 53.9 55.7 51.6 53.3 49.7 51 50.4 59.7 61.9 47.2 67 70.6</td><td>No Yes No No</td><td>65.9 55.3 64.3 55.7 51.9 50.4 63.1 50.2 51.9 40.2 51.5 47.8 49.9 46.5 47.7 49.5 50.7 51.2 52.7 49.8 51.5 47.4 49.1 46 50.4 48.9 59.6 61.9 46 56 58.5</td><td>3.0 1.1 3.9 2.7 2.9 3.2 4.3 3.8 4.6 3.6 3.8 2.7 3.8 4.6 3.6 3.8 2.7 3.0 3.1 3.4 3.2 3.3 4.8 3.9 4.3 4.1 4.2 4.2 4.2 4.2 4.2 4.2 1.5 0.1 0.0 1.2 11.0 12.1</td><td>No No No</td></tr></td></tr> | 60 68.9 56.4 68.2 58.4 53.6 67.4 54.8 53.6 57.5 52.8 55.3 51.4 53.7 53.7 53.7 53.7 53.7 55.3 55.1 57 53.3 51.6 53.3 49.7 51.6 53.3 49.7 51.6 50.4 59.7 61.9 47.2 67 | No Yes No No | 65.9 55.3 64.3 55.7 51.9 50.4 63.1 50.2 51.9 40.2 51.5 47.8 49.9 46.5 47.7 49.5 50.7 51.5 53.3 50.7 51.5 47.8 49.9 51.7 56.5 53.3 50.7 51.2 52.7 49.8 51.5 47.4 49.1 46 50.4 48.9 59.6 61.9 46 56 | 3.0 1.1 3.9 2.7 2.9 3.2 4.3 3.8 4.6 3.6 3.8 2.7 3.8 4.6 3.6 3.8 2.7 3.0 3.1 3.4 3.2 3.3 4.8 3.9 4.3 4.1 4.2 4.2 4.2 4.2 4.2 4.2 1.5 0.1 0.0 1.2 11.0 | No No | B18 - 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| B18 - REC 25 B19 - REC 24 B20 - REC 26 B21 - REC 27 B22 - REC 33 B23 - REC 34 B24 - REC 31 B25 - REC 31 B25 - REC 31 B27 - REC 82 B291 - REC 54 B292 - REC 55 B301 - REC 50 B301 - REC 51 B31 - REC 41 B322 - REC 43 B322 - REC 43 B32 - REC 41 B32 - REC 57 B33 - REC 57 B34 - REC 57 B35 - REC 58 B36 - REC 59 B37 - REC 61 B38 - REC 64 B38 - REC 64 B38 - REC 64 B38 - REC 74 B18 - REC 1924 B81 - REC 1924 B83 - REC 1922 B84 - REC 1921 CC1.1 - REC 1938 | Residential | B B | $\begin{array}{c} 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\$ | 1 2 2 2 2 2 2 1 1 1 1 3 2 1 1 2 3 4 3 4 3 2 2 3 1 <tr td=""> <!--</td--><td>60 68.9 56.4 58.4 53.6 67.4 54.8 55.3 52.8 55.3 51.4 53.7 53.7 51 52.2 53.7 53.7 51.4 55.5 55.5 55.7 55.1 57 53.3 49.7 51.6 53.3 49.7 51 50.4 59.7 61.9 47.2</td><td>No Yes No No</td><td>65.9 55.3 64.3 55.7 51.9 50.4 63.1 50.2 51.9 40.2 51.5 47.8 49.9 46.5 47.7 49.5 50.7 51.2 52.7 49.8 51.5 47.4 49.1 46 50.4 48.9 59.6 61.9 46 56 58.5</td><td>3.0 1.1 3.9 2.7 2.9 3.2 4.3 3.8 4.6 3.6 3.8 3.6 3.8 2.7 3.6 3.8 3.6 3.8 2.7 3.0 3.1 3.4 3.2 3.3 4.1 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2 0.6 1.5 0.1 0.0 1.2</td><td>No No No</td></tr> <tr><td>B18 - REC 25 B19 - REC 24 B20 - REC 26 B21 - REC 27 B22 - REC 33 B23 - REC 34 B24 - REC 31 B25 - REC 31 B25 - REC 31 B27 - REC 82 B291 - REC 54 B292 - REC 55 B301 - REC 50 B301 - REC 51 B31 - REC 41 B322 - REC 43 B322 - REC 43 B32 - REC 41 B32 - REC 57 B33 - REC 57 B34 - REC 57 B35 - REC 58 B36 - REC 59 B37 - REC 61 B38 - REC 64 B38 - REC 64 B38 - REC 64 B38 - REC 74 B18 - REC 1924 B81 - REC 1924 B83 - REC 1922 B84 - REC 1921 CC1.1 - REC 1938</td><td>Residential Residential Residential</td><td>B B</td><td>$\begin{array}{c} 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\$</td><td>1 2 2 2 2 2 2 2 1 1 1 3 2 1 1 3 4 3 2 2 3 1 1 1 1 1 2 2 4 1 <tr td=""> <!--</td--><td>60 68.9 56.4 68.2 58.4 53.6 67.4 54.8 53.6 57.5 52.8 55.3 51.4 53.7 53.7 53.7 53.7 53.7 55.3 55.1 57 53.3 51.6 53.3 49.7 51.6 53.3 49.7 51.6 50.4 59.7 61.9 47.2 67</td><td>No Yes No No</td><td>65.9 55.3 64.3 55.7 51.9 50.4 63.1 50.2 51.9 40.2 51.5 47.8 49.9 46.5 47.7 49.5 50.7 51.5 53.3 50.7 51.5 47.8 49.9 51.7 56.5 53.3 50.7 51.2 52.7 49.8 51.5 47.4 49.1 46 50.4 48.9 59.6 61.9 46 56</td><td>3.0 1.1 3.9 2.7 2.9 3.2 4.3 3.8 4.6 3.6 3.8 2.7 3.8 4.6 3.6 3.8 2.7 3.0 3.1 3.4 3.2 3.3 4.8 3.9 4.3 4.1 4.2 4.2 4.2 4.2 4.2 4.2 1.5 0.1 0.0 1.2 11.0</td><td>No No No</td></tr><tr><td>B18 - REC 25 B19 - REC 24 B20 - REC 26 B21 - REC 27 B22 - REC 33 B23 - REC 34 B24 - REC 31 B25 - REC 32 B29 - REC 82 B29 - REC 54 B29 - REC 55 B30 - REC 50 B31 - REC 51 B31 - REC 51 B32 - REC 53 B32 - REC 54 B32 - REC 54 B32 - REC 51 B31 - REC 51 B31 - REC 51 B32 - REC 41 B32 - REC 57 B35 - REC 57 B35 - REC 57 B35 - REC 58 B36 - REC 58 B36 - REC 58 B37 - REC 61 B38 - REC 64 B38 - REC 65 B39 - REC 65 B39 - REC 65 B39 - REC 65</td><td>Residential Residential Residential</td><td>B B</td><td>$\begin{array}{c} 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\$</td><td>1 2 2 2 2 2 2 1 1 1 1 3 2 1 1 2 3 4 3 4 3 2 2 3 1 1 1 1 1
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 B38 - REC 64 B38 - REC 64 B38 - REC 74 B18 - REC 1924 B81 - REC 1924 B83 - REC 1922 B84 - REC 1921 CC1.1 - REC 1938 | Residential Residential | B B | $\begin{array}{c} 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\$ | 1 2 2 2 2 2 2 2 1 1 1 3 2 1 1 3 4 3 2 2 3 1 1 1 1 1 2 2 4 1 <tr td=""> <!--</td--><td>60 68.9 56.4 68.2 58.4 53.6 67.4 54.8 53.6 57.5 52.8 55.3 51.4 53.7 53.7 53.7 53.7 53.7 55.3 55.1 57 53.3 51.6 53.3 49.7 51.6 53.3 49.7 51.6 50.4 59.7 61.9 47.2 67</td><td>No Yes No No</td><td>65.9 55.3 64.3 55.7 51.9 50.4 63.1 50.2 51.9 40.2 51.5 47.8 49.9 46.5 47.7 49.5 50.7 51.5 53.3 50.7 51.5 47.8 49.9 51.7 56.5 53.3 50.7 51.2 52.7 49.8 51.5 47.4 49.1 46 50.4 48.9 59.6 61.9 46 56</td><td>3.0 1.1 3.9 2.7 2.9 3.2 4.3 3.8 4.6 3.6 3.8 2.7 3.8 4.6 3.6 3.8 2.7 3.0 3.1 3.4 3.2 3.3 4.8 3.9 4.3 4.1 4.2 4.2 4.2 4.2 4.2 4.2 1.5 0.1 0.0 1.2 11.0</td><td>No No No</td></tr> <tr><td>B18 - REC 25 B19 - REC 24 B20 - REC 26 B21 - REC 27 B22 - REC 33 B23 - REC 34 B24 - REC 31 B25 - REC 32 B29 - REC 82 B29 - REC 54 B29 - REC 55 B30 - REC 50 B31 - REC 51 B31 - REC 51 B32 - REC 53 B32 - REC 54 B32 - REC 54 B32 - REC 51 B31 - REC 51 B31 - REC 51 B32 - REC 41 B32 - REC 57 B35 - REC 57 B35 - REC 57 B35 - REC 58 B36 - REC 58 B36 - REC 58 B37 - REC 61 B38 - REC 64 B38 - REC 65 B39 - REC 65 B39 - REC 65 B39 - REC 65</td><td>Residential Residential Residential</td><td>B B</td><td>$\begin{array}{c} 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\$</td><td>1 2 2 2 2 2 2 1 1 1 1 3 2 1 1 2 3 4 3 4 3 2 2 3 1 <tr td=""> <!--</td--><td>60 68.9 56.4 68.2 58.4 53.6 67.4 54.8 53.6 57.5 51.4 53.7 53.7 53.7 53.7 53.7 55.3 51.4 55.7 55.7 55.1 57 53.9 55.7 51.6 53.3 49.7 51 50.4 59.7 61.9 47.2 67 70.6</td><td>No Yes No No</td><td>65.9 55.3 64.3 55.7 51.9 50.4 63.1 50.2 51.9 40.2 51.5 47.8 49.9 46.5 47.7 49.5 50.7 51.2 52.7 49.8 51.5 47.4 49.1 46 50.4 48.9 59.6 61.9 46 56 58.5</td><td>3.0 1.1 3.9 2.7 2.9 3.2 4.3 3.8 4.6 3.6 3.8 2.7 3.8 4.6 3.6 3.8 2.7 3.0 3.1 3.4 3.2 3.3 4.8 3.9 4.3 4.1 4.2 4.2 4.2 4.2 4.2 4.2 1.5 0.1 0.0 1.2 11.0 12.1</td><td>No No No</td></tr></td></tr>
 | 60 68.9 56.4 68.2 58.4 53.6 67.4 54.8 53.6 57.5 52.8 55.3 51.4 53.7 53.7 53.7 53.7 53.7 55.3 55.1 57 53.3 51.6 53.3 49.7 51.6 53.3 49.7 51.6 50.4 59.7 61.9 47.2 67 | No Yes No No | 65.9 55.3 64.3 55.7 51.9 50.4 63.1 50.2 51.9 40.2 51.5 47.8 49.9 46.5 47.7 49.5 50.7 51.5 53.3 50.7 51.5 47.8 49.9 51.7 56.5 53.3 50.7 51.2 52.7 49.8 51.5 47.4 49.1 46 50.4 48.9 59.6 61.9 46 56 | 3.0 1.1 3.9 2.7 2.9 3.2 4.3 3.8 4.6 3.6 3.8 2.7 3.8 4.6 3.6 3.8 2.7 3.0 3.1 3.4 3.2 3.3 4.8 3.9 4.3 4.1 4.2 4.2 4.2 4.2 4.2 4.2 1.5 0.1 0.0 1.2 11.0 | No No | B18 - REC 25 B19 - REC 24 B20 - REC 26 B21 - REC 27 B22 - REC 33 B23 - REC 34 B24 - REC 31 B25 - REC 32 B29 - REC 82 B29 - REC 54 B29 - REC 55 B30 - REC 50 B31 - REC 51 B31 - REC 51 B32 - REC 53 B32 - REC 54 B32 - REC 54 B32 - REC 51 B31 - REC 51 B31 - REC 51 B32 - REC 41 B32 - REC 57 B35 - REC 57 B35 - REC 57 B35 - REC 58 B36 - REC 58 B36 - REC 58 B37 - REC 61 B38 - REC 64 B38 - REC 65 B39 - REC 65 B39 - REC 65 B39 - REC 65 | Residential Residential | B B | $\begin{array}{c} 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\$ | 1 2 2 2 2 2 2 1 1 1 1 3 2 1 1 2 3 4 3 4 3 2 2 3 1 <tr td=""> <!--</td--><td>60 68.9 56.4 68.2 58.4 53.6 67.4 54.8 53.6 57.5 51.4 53.7 53.7 53.7 53.7 53.7 55.3 51.4 55.7 55.7 55.1 57 53.9 55.7 51.6 53.3 49.7 51 50.4 59.7 61.9 47.2 67 70.6</td><td>No Yes No No</td><td>65.9 55.3 64.3 55.7 51.9 50.4 63.1 50.2 51.9 40.2 51.5 47.8 49.9 46.5 47.7 49.5 50.7 51.2 52.7 49.8 51.5 47.4 49.1 46 50.4 48.9 59.6 61.9 46 56 58.5</td><td>3.0 1.1 3.9 2.7 2.9 3.2 4.3 3.8 4.6 3.6 3.8 2.7 3.8 4.6 3.6 3.8 2.7 3.0 3.1 3.4 3.2 3.3 4.8 3.9 4.3 4.1 4.2 4.2 4.2 4.2 4.2 4.2 1.5 0.1 0.0 1.2 11.0 12.1</td><td>No No No</td></tr>
 | 60 68.9 56.4 68.2 58.4 53.6 67.4 54.8 53.6 57.5 51.4 53.7 53.7 53.7 53.7 53.7 55.3 51.4 55.7 55.7 55.1 57 53.9 55.7 51.6 53.3 49.7 51 50.4 59.7 61.9 47.2 67 70.6 | No Yes No No | 65.9 55.3 64.3 55.7 51.9 50.4 63.1 50.2 51.9 40.2 51.5 47.8 49.9 46.5 47.7 49.5 50.7 51.2 52.7 49.8 51.5 47.4 49.1 46 50.4 48.9 59.6 61.9 46 56 58.5 | 3.0 1.1 3.9 2.7 2.9 3.2 4.3 3.8 4.6 3.6 3.8 2.7 3.8 4.6 3.6 3.8 2.7 3.0 3.1 3.4 3.2 3.3 4.8 3.9 4.3 4.1 4.2 4.2 4.2 4.2 4.2 4.2 1.5 0.1 0.0 1.2 11.0 12.1 | No No | | | | |
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| 60 68.9 56.4 58.4 53.6 67.4 54.8 55.3 52.8 55.3 51.4 53.7 53.7 51 52.2 53.7 53.7 51.4 55.5 55.5 55.7 55.1 57 53.3 49.7 51.6 53.3 49.7 51 50.4 59.7 61.9 47.2 | No Yes No | 65.9 55.3 64.3 55.7 51.9 50.4 63.1 50.2 51.9 40.2 51.5 47.8 49.9 46.5 47.7 49.5 50.7 51.2 52.7 49.8 51.5 47.4 49.1 46 50.4 48.9 59.6 61.9 46 56 58.5 | 3.0 1.1 3.9 2.7 2.9 3.2 4.3 3.8 4.6 3.6 3.8 3.6 3.8 2.7 3.6 3.8 3.6 3.8 2.7 3.0 3.1 3.4 3.2 3.3 4.1 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2 0.6 1.5 0.1 0.0 1.2 | No

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| B18 - REC 25 B19 - REC 24 B20 - REC 26 B21 - REC 27 B22 - REC 33 B23 - REC 34 B24 - REC 31 B25 - REC 31 B25 - REC 31 B27 - REC 82 B291 - REC 54 B292 - REC 55 B301 - REC 50 B301 - REC 51 B31 - REC 41 B322 - REC 43 B322 - REC 43 B32 - REC 41 B32 - REC 57 B33 - REC 57 B34 - REC 57 B35 - REC 58 B36 - REC 59 B37 - REC 61 B38 - REC 64 B38 - REC 64 B38 - REC 64 B38 - REC 74 B18 - REC 1924 B81 - REC 1924 B83 - REC 1922 B84 - REC 1921 CC1.1 - REC 1938 | Residential | B B | $\begin{array}{c} 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\$ | 1 2 2 2 2 2 2 2 1 1 1 3 2 1 1 3 4 3 2 2 3 1 1 1 1 1 2 2 4 1 <tr td=""> <!--</td--><td>60 68.9 56.4 68.2 58.4 53.6 67.4 54.8 53.6 57.5 52.8 55.3 51.4 53.7 53.7 53.7 53.7 53.7 55.3 55.1 57 53.3 51.6 53.3 49.7 51.6 53.3 49.7 51.6 50.4 59.7 61.9 47.2 67</td><td>No Yes No No</td><td>65.9 55.3 64.3 55.7 51.9 50.4 63.1 50.2 51.9 40.2 51.5 47.8 49.9 46.5 47.7 49.5 50.7 51.5 53.3 50.7 51.5 47.8 49.9 51.7 56.5 53.3 50.7 51.2 52.7 49.8 51.5 47.4 49.1 46 50.4 48.9 59.6 61.9 46 56</td><td>3.0 1.1 3.9 2.7 2.9 3.2 4.3 3.8 4.6 3.6 3.8 2.7 3.8 4.6 3.6 3.8 2.7 3.0 3.1 3.4 3.2 3.3 4.8 3.9 4.3 4.1 4.2 4.2 4.2 4.2 4.2 4.2 1.5 0.1 0.0 1.2 11.0</td><td>No No No</td></tr> <tr><td>B18 - REC 25 B19 - REC 24 B20 - REC 26 B21 - REC 27 B22 - REC 33 B23 - REC 34 B24 - REC 31 B25 - REC 32 B29 - REC 82 B29 - REC 54 B29 - REC 55 B30 - REC 50 B31 - REC 51 B31 - REC 51 B32 - REC 53 B32 - REC 54 B32 - REC 54 B32 - REC 51 B31 - REC 51 B31 - REC 51 B32 - REC 41 B32 - REC 57 B35 - REC 57 B35 - REC 57 B35 - REC 58 B36 - REC 58 B36 - REC 58 B37 - REC 61 B38 - REC 64 B38 - REC 65 B39 - REC 65 B39 - REC 65 B39 - REC 65</td><td>Residential Residential Residential</td><td>B B</td><td>$\begin{array}{c} 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\$</td><td>1 2 2 2 2 2 2 1 1 1 1 3 2 1 1 2 3 4 3 4 3 2 2 3 1 <tr td=""> <!--</td--><td>60 68.9 56.4 68.2 58.4 53.6 67.4 54.8 53.6 57.5 51.4 53.7 53.7 53.7 53.7 53.7 55.3 51.4 55.7 55.7 55.1 57 53.9 55.7 51.6 53.3 49.7 51 50.4 59.7 61.9 47.2 67 70.6</td><td>No Yes No No</td><td>65.9 55.3 64.3 55.7 51.9 50.4 63.1 50.2 51.9 40.2 51.5 47.8 49.9 46.5 47.7 49.5 50.7 51.2 52.7 49.8 51.5 47.4 49.1 46 50.4 48.9 59.6 61.9 46 56 58.5</td><td>3.0 1.1 3.9 2.7 2.9 3.2 4.3 3.8 4.6 3.6 3.8 2.7 3.8 4.6 3.6 3.8 2.7 3.0 3.1 3.4 3.2 3.3 4.8 3.9 4.3 4.1 4.2 4.2 4.2 4.2 4.2 4.2 1.5 0.1 0.0 1.2 11.0 12.1</td><td>No No No</td></tr></td></tr>
 | 60 68.9 56.4 68.2 58.4 53.6 67.4 54.8 53.6 57.5 52.8 55.3 51.4 53.7 53.7 53.7
53.7 53.7 55.3 55.1 57 53.3 51.6 53.3 49.7 51.6 53.3 49.7 51.6 50.4 59.7 61.9 47.2 67 | No Yes No No | 65.9 55.3 64.3 55.7 51.9 50.4 63.1 50.2 51.9 40.2 51.5 47.8 49.9 46.5 47.7 49.5 50.7 51.5 53.3 50.7 51.5 47.8 49.9 51.7 56.5 53.3 50.7 51.2 52.7 49.8 51.5 47.4 49.1 46 50.4 48.9 59.6 61.9 46 56 | 3.0 1.1 3.9 2.7 2.9 3.2 4.3 3.8 4.6 3.6 3.8 2.7 3.8 4.6 3.6 3.8 2.7 3.0 3.1 3.4 3.2 3.3 4.8 3.9 4.3 4.1 4.2 4.2 4.2 4.2 4.2 4.2 1.5 0.1 0.0 1.2 11.0 | No No | B18 - REC 25 B19 - REC 24 B20 - REC 26 B21 - REC 27 B22 - REC 33 B23 - REC 34 B24 - REC 31 B25 - REC 32 B29 - REC 82 B29 - REC 54 B29 - REC 55 B30 - REC 50 B31 - REC 51 B31 - REC 51 B32 - REC 53 B32 - REC 54 B32 - REC 54 B32 - REC 51 B31 - REC 51 B31 - REC 51 B32 - REC 41 B32 - REC 57 B35 - REC 57 B35 - REC 57 B35 - REC 58 B36 - REC 58 B36 - REC 58 B37 - REC 61 B38 - REC 64 B38 - REC 65 B39 - REC 65 B39 - REC 65 B39 - REC 65 | Residential Residential | B B | $\begin{array}{c} 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\$ | 1 2 2 2 2 2 2 1 1 1 1 3 2 1 1 2 3 4 3 4 3 2 2 3 1 <tr td=""> <!--</td--><td>60 68.9 56.4 68.2 58.4 53.6 67.4 54.8 53.6 57.5 51.4 53.7 53.7 53.7 53.7 53.7 55.3 51.4 55.7 55.7 55.1 57 53.9 55.7 51.6 53.3 49.7 51 50.4 59.7 61.9 47.2 67 70.6</td><td>No Yes No No</td><td>65.9 55.3 64.3 55.7 51.9 50.4 63.1 50.2 51.9 40.2 51.5 47.8 49.9 46.5 47.7 49.5 50.7 51.2 52.7 49.8 51.5 47.4 49.1 46 50.4 48.9 59.6 61.9 46 56 58.5</td><td>3.0 1.1 3.9 2.7 2.9 3.2 4.3 3.8 4.6 3.6 3.8 2.7 3.8 4.6 3.6 3.8 2.7 3.0 3.1 3.4 3.2 3.3 4.8 3.9 4.3 4.1 4.2 4.2 4.2 4.2 4.2 4.2 1.5 0.1 0.0 1.2 11.0 12.1</td><td>No No No</td></tr>
 | 60 68.9 56.4 68.2 58.4 53.6 67.4 54.8 53.6 57.5 51.4 53.7 53.7 53.7 53.7 53.7 55.3 51.4 55.7 55.7 55.1 57 53.9 55.7 51.6 53.3 49.7 51 50.4 59.7 61.9 47.2 67 70.6 | No Yes No No | 65.9 55.3 64.3 55.7 51.9 50.4 63.1 50.2 51.9 40.2 51.5 47.8 49.9 46.5 47.7 49.5 50.7 51.2 52.7 49.8 51.5 47.4 49.1 46 50.4 48.9 59.6 61.9 46 56 58.5 | 3.0 1.1 3.9 2.7 2.9 3.2 4.3 3.8 4.6 3.6 3.8 2.7 3.8 4.6 3.6 3.8 2.7 3.0 3.1 3.4 3.2 3.3 4.8 3.9 4.3 4.1 4.2 4.2 4.2 4.2 4.2 4.2 1.5 0.1 0.0 1.2 11.0 12.1 | No No | | | | | | | |
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| 60 68.9 56.4 68.2 58.4 53.6 67.4 54.8 53.6 57.5 52.8 55.3 51.4 53.7 53.7 53.7 53.7 53.7 55.3 55.1 57 53.3 51.6 53.3 49.7 51.6 53.3 49.7 51.6 50.4 59.7 61.9 47.2 67 | No Yes No | 65.9 55.3 64.3 55.7 51.9 50.4 63.1 50.2 51.9 40.2 51.5 47.8 49.9 46.5 47.7 49.5 50.7 51.5 53.3 50.7 51.5 47.8 49.9 51.7 56.5 53.3 50.7 51.2 52.7 49.8 51.5 47.4 49.1 46 50.4 48.9 59.6 61.9 46 56 | 3.0 1.1 3.9 2.7 2.9 3.2 4.3 3.8 4.6 3.6 3.8 2.7 3.8 4.6 3.6 3.8 2.7 3.0 3.1 3.4 3.2 3.3 4.8 3.9 4.3 4.1 4.2 4.2 4.2 4.2 4.2 4.2 1.5 0.1 0.0 1.2 11.0 | No

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| B18 - REC 25 B19 - REC 24 B20 - REC 26 B21 - REC 27 B22 - REC 33 B23 - REC 34 B24 - REC 31 B25 - REC 32 B29 - REC 82 B29 - REC 54 B29 - REC 55 B30 - REC 50 B31 - REC 51 B31 - REC 51 B32 - REC 53 B32 - REC 54 B32 - REC 54 B32 - REC 51 B31 - REC 51 B31 - REC 51 B32 - REC 41 B32 - REC 57 B35 - REC 57 B35 - REC 57 B35 - REC 58 B36 - REC 58 B36 - REC 58 B37 - REC 61 B38 - REC 64 B38 - REC 65 B39 - REC 65 B39 - REC 65 B39 - REC 65 | Residential | B B | $\begin{array}{c} 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\ 67\\$ | 1 2 2 2 2 2 2 1 1 1 1 3 2 1 1 2 3 4 3 4 3 2 2 3 1 <tr td=""> <!--</td--><td>60 68.9 56.4 68.2 58.4 53.6 67.4 54.8 53.6 57.5 51.4 53.7 53.7 53.7 53.7 53.7 55.3 51.4 55.7 55.7 55.1 57 53.9 55.7 51.6 53.3 49.7 51 50.4 59.7 61.9 47.2 67 70.6</td><td>No Yes No No</td><td>65.9 55.3 64.3 55.7 51.9 50.4 63.1 50.2 51.9 40.2 51.5 47.8 49.9 46.5 47.7 49.5 50.7 51.2 52.7 49.8 51.5 47.4 49.1 46 50.4 48.9 59.6 61.9 46 56 58.5</td><td>3.0 1.1 3.9 2.7 2.9 3.2 4.3 3.8 4.6 3.6 3.8 2.7 3.8 4.6 3.6 3.8 2.7 3.0 3.1 3.4 3.2 3.3 4.8 3.9 4.3 4.1 4.2 4.2 4.2 4.2 4.2 4.2 1.5 0.1 0.0 1.2 11.0 12.1</td><td>No No No</td></tr>

 | 60 68.9 56.4 68.2 58.4 53.6 67.4 54.8 53.6 57.5 51.4 53.7 53.7 53.7 53.7 53.7 55.3 51.4 55.7 55.7 55.1 57 53.9 55.7 51.6 53.3 49.7 51 50.4 59.7 61.9 47.2 67 70.6 | No Yes No No | 65.9 55.3 64.3 55.7 51.9 50.4 63.1 50.2 51.9 40.2 51.5 47.8 49.9 46.5 47.7 49.5 50.7 51.2 52.7 49.8 51.5 47.4 49.1 46 50.4 48.9 59.6 61.9 46 56 58.5 | 3.0 1.1 3.9 2.7 2.9 3.2 4.3 3.8 4.6 3.6 3.8 2.7 3.8 4.6 3.6 3.8 2.7 3.0 3.1 3.4 3.2 3.3 4.8 3.9 4.3 4.1 4.2 4.2 4.2 4.2 4.2 4.2 1.5 0.1 0.0 1.2 11.0 12.1 | No No | | | | |

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| 60 68.9 56.4 68.2 58.4 53.6 67.4 54.8 53.6 57.5 51.4 53.7 53.7 53.7 53.7 53.7 55.3 51.4 55.7 55.7 55.1 57 53.9 55.7 51.6 53.3 49.7 51 50.4 59.7 61.9 47.2 67 70.6 | No Yes No | 65.9 55.3 64.3 55.7 51.9 50.4 63.1 50.2 51.9 40.2 51.5 47.8 49.9 46.5 47.7 49.5 50.7 51.2 52.7 49.8 51.5 47.4 49.1 46 50.4 48.9 59.6 61.9 46 56 58.5 | 3.0 1.1 3.9 2.7 2.9 3.2 4.3 3.8 4.6 3.6 3.8 2.7 3.8 4.6 3.6 3.8 2.7 3.0 3.1 3.4 3.2 3.3 4.8 3.9 4.3 4.1 4.2 4.2 4.2 4.2 4.2 4.2 1.5 0.1 0.0 1.2 11.0 12.1 | No

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RECEIVER ID	DESCRIPTION	CATEGORY	CRITERIA	RECEPTORS	FUTURE	IMPACT	FUTURE W/	NOISE BARRIER	BENEFITED
CC4.2 - REC 1941	Residential	В	67	1	W/O BARRIER 66.5	Yes	55.4	REDUCTION 11.1	RECEPTOR Yes
CC5.1 - REC 1934	Residential	В	67	2	62.2	No	54.5	7.7	Yes
CC5.2 - REC 1935	Residential	В	67	2	66.1	Yes	55.8	10.3	Yes
CC6 - REC 1920	Residential	В	67	2	66.3	Yes	66.3	0.0	No
CC7 - REC 1931	Residential	В	67	2	54	No	50.3	3.7	No
CC8.1 - REC 1932	Residential	В	67	1	64.9	No	55.6	9.3	Yes
CC8.2 - REC 1933	Residential	В	67	1	66.3	Yes	59.1	7.2	Yes
CC9 - REC 1919	Residential	В	67	1	64.9	No	64.8	0.1	No
CC10 - REC 1930	Residential	В	67	20	52	No	48.8	3.2	No
CC11 - REC 1927	Residential	В	67	6	63	No	56.4	6.6	Yes
CC12 - REC 1918	Residential	В	67	2	64.8	No	64.8	0.0	No
CC12.1 - REC 1928	Residential	В	67	1	52.2	No	50.5	1.7	No
CC12.2 - REC 1929	Residential	В	67	1	54.5	No	51.8	2.7	No
CC13 - REC 1926	Residential	В	67	1	51.2	No	49.4	1.8	No
CC14 - REC 1925	Residential	В	67	1	51.3 58	No	50 58	1.3	No
CC16 - REC 1914 CC17 - REC 1915	Residential Residential	В	67	2	58	No	58	0.0	No
CC17 - REC 1915 CC18 - REC 1916	Residential	B	67 67	2	54.2	No No	54.2	0.0	No
CC18 - REC 1918 CC19 - REC 1917	Residential	B	67	2	52.7	No	52.7	0.0	No
NB 5	Residential	D	07	2	JZ.7	INU	JZ.7	0.0	NU
BB21 - REC 1909	School	С	67	1	59.7	No	58.9	0.8	No
BB22 - REC 1909 BB22 - REC 1906	Hospital	C	67	1	45.9	No	43.8	2.1	No
BB23 - REC 1895	School	C	67	1	56.4	No	55.8	0.6	No
CC22 - REC 1910	Residential	В	67	6	58	No	55.8	2.2	No
CC23.1 - REC 1893	Residential	B	67	1	65.1	No	60	5.1	Yes
CC23.2 - REC 1894	Residential	B	67	1	72.6	Yes	65.1	7.5	Yes
CC24 - REC 1892	Recording Studio	D	52	1	39.5	No	35.9	3.6	No
NB 6		l.							
F16 - REC 467	Residential	В	67	1	60.9	No	60.8	0.1	No
F17 - REC 469	Residential	В	67	1	57.4	No	57.3	0.1	No
F18 - REC 470	Residential	В	67	1	54.5	No	54.4	0.1	No
F19 - REC 471	Residential	В	67	1	59.7	No	56.6	3.1	No
F21 - REC 474	Residential	В	67	1	54.3	No	52	2.3	No
G1.1 - REC 477	Residential	В	67	2	56.6	No	54.3	2.3	No
G1.2 - REC 478	Residential	В	67	2	59.8	No	56.5	3.3	No
G2.1 - REC 479	Residential	В	67	4	57	No	54.8	2.2	No
G2.2 - REC 480	Residential	В	67	4	60.1	No	57	3.1	No
G2.3 - REC 481	Residential	В	67	4	62.1	No	58	4.1	No
G5.1 - REC 483	Residential	В	67	1	65.5	No	63.7	1.8	No
G5.2 - REC 484	Residential	В	67	1	67.5	Yes	64.2	3.3	No
G6 - REC 512	Residential	В	67	12	51.7	No	50	1.7	No
G7.1 - REC 506	Residential	В	67	2	51.2	No	49.5	1.7	No
G7.2 - REC 507	Residential	В	67	2	53.8	No	51.5	2.3	No
G7.3 - REC 508	Residential	В	67	2	55.2	No	52.6	2.6	No
G8.1 - REC 485	Residential Residential	B	67 67	1	65.4	No	63.9 64.1	1.5	No
G8.2 - REC 486 G9 - REC 487			-	1	67.1	Yes		3.0	No
G10 - REC 488	Residential Residential	B	67 67	3	66.3 67.1	Yes Yes	64.1 65.2	2.2	No No
G10 - REC 488	Residential	B	67	2	67.4	Yes	65.5	1.9	No
G12.1 - REC 493	Residential	B	67	1	67.2	Yes	65.2	2.0	No
G12.1 - REC 493	Residential	B	67	1	68.6	Yes	65.4	3.2	No
G13.1 - REC 492	Residential	B	67	1	67.6	Yes	65.6	2.0	No
G13.2 - REC 490	Residential	B	67	1	68.9	Yes	65.9	3.0	No
G14.1 - REC 495	Residential	B	67	8	66.7	Yes	64.7	2.0	No
G14.2 - REC 496	Residential	B	67	8	68.8	Yes	65.9	2.9	No
G14.3 - REC 494	Residential	B	67	8	69.7	Yes	66.5	3.2	No
G15 - REC 499	Residential	B	67	4	57.1	No	54.8	2.3	No
G16 - REC 498	Residential	В	67	4	55.8	No	53.7	2.1	No
G17 - REC 497	Residential	В	67	4	52.9	No	51.5	1.4	No
G18 - REC 500	Residential	В	67	4	55.9	No	53.4	2.5	No
G19 - REC 501	Residential	В	67	4	48.8	No	47.6	1.2	No
G20 - REC 502	Residential	В	67	4	46.2	No	45.1	1.1	No
G21 - REC 513	Residential	В	67	2	65.1	No	60.4	4.7	No
G22 - REC 514	Residential	В	67	2	61.1	No	58.1	3.0	No
G23 - REC 515	Residential	В	67	2	63.3	No	59.8	3.5	No
G24 - REC 516	Residential	В	67	2	56.6	No	54.2	2.4	No
G25 - REC 555	Playground	С	67	1	66.9	Yes	60.6	6.3	Yes
G26 - REC 519	Residential	В	67	2	43.3	No	43.1	0.2	No
G27 - REC 520	Residential	В	67	2	42.9	No	42.7	0.2	No
G28 - REC 521	Residential	В	67	2	43	No	42.7	0.3	No
G29 - REC 525	Residential	В	67	2	43.3	No	43	0.3	No
	Residential	В	67	2	64.1	No	58.8	5.3	Yes

RECEIVER ID	DESCRIPTION	CATEGORY	CRITERIA	RECEPTORS		IMPACT	FUTURE W/ BARRIER	NOISE BARRIER	BENEFITED RECEPTOR
G31 - REC 522	Residential	В	67	2	W/O BARRIER 63.2	No	58.8	4.4	No
G32 - REC 523	Residential	B	67	2	63.4	No	59.4	4.0	No
G33 - REC 517	Residential	B	67	2	58.8	No	53.5	5.3	Yes
G34 - REC 518	Residential	В	67	2	56.3	No	53.1	3.2	No
G35 - REC 526	Residential	B	67	6	52.9	No	51.1	1.8	No
G36 - REC 537	Residential	B	67	6	62.1	No	57.1	5.0	Yes
G37 - REC 559	Residential	B	67	6	44.3	No	43.6	0.7	No
G38 - REC 563	Residential	B	67	5	44.3	No	46.4	1.4	No
G39 - REC 562	Residential	B	67	5	50.2	No	40.4	2.6	No
G39 - REC 562 G40 - REC 554	Residential	B	67	2	61.7	No	55	6.7	Yes
G40 - REC 554 G41 - REC 553	Residential	В	67	2	61.3		54.5		Yes
		В	67	2		No	54.5	6.8 6.6	
G42 - REC 552	Residential		-		60.8 60.2	-	53.8		Yes
G43 - REC 551	Residential	В	67	2		No		6.4	Yes
G44 - REC 550	Residential	В	67	2	59.8	No	53.6	6.2	Yes
G45 - REC 538	Residential	В	67	6	59	No	54.6	4.4	No
G46A	Residential	В	67	0	64.6	No	60	4.6	No
G47 - REC 564	Residential	В	67	6	47.6	No	46.1	1.5	No
G47A.1	Residential	В	67	1	64	No	59.7	4.3	No
G47A.2	Residential	В	67	1	69	Yes	60.6	8.4	Yes
G48 - REC 569	Residential	В	67	6	47.2	No	46.6	0.6	No
G48A.1	Residential	В	67	2	64.7	No	60	4.7	No
G48A.2	Residential	В	67	2	68.9	Yes	60.4	8.5	Yes
G49 - REC 570	Residential	В	67	2	50.6	No	50.2	0.4	No
G49A	Residential	В	67	1	64.5	No	59.9	4.6	No
G50 - REC 572	Residential	В	67	3	67.4	Yes	58.5	8.9	Yes
G51 - REC 573	Residential	В	67	2	64.6	No	55.3	9.3	Yes
G52 - REC 574	Residential	В	67	2	50	No	49.8	0.2	No
G53 - REC 575	Residential	В	67	2	50.6	No	50.4	0.2	No
G54-1 - REC 580	Residential	В	67	2	55.8	No	49.4	6.4	Yes
G54-2 - REC 576	Residential	В	67	2	66	Yes	56.8	9.2	Yes
G55 - REC 579	Residential	В	67	2	54.9	No	47.8	7.1	Yes
000 - ILLO 0/7					54	No	45.5	8.5	Yes
	Residential	В	67						
G56 - REC 577	Residential Residential	B	67 67	1			46	0.2	No
G56 - REC 577 G57 - REC 578	Residential	В	67	3	46.2	No	46 57.7	0.2	No
G56 - REC 577 G57 - REC 578 G58 - REC 582	Residential Residential	BB	67 67	3	46.2 57.8	No No	57.7	0.1	No
G56 - REC 577 G57 - REC 578 G58 - REC 582 G59 - REC 583	Residential Residential Residential	B B B	67 67 67	3 2 2	46.2 57.8 58.9	No No No	57.7 58.6	0.1 0.3	No No
G56 - REC 577 G57 - REC 578 G58 - REC 582 G59 - REC 583 G60 - REC 585	Residential Residential	BB	67 67	3	46.2 57.8	No No	57.7	0.1	No
G56 - REC 577 G57 - REC 578 G58 - REC 582 G59 - REC 583 G60 - REC 585 NB 7	Residential Residential Residential School	B B C	67 67 67 67 67	3 2 2 1	46.2 57.8 58.9 49.1	No No No	57.7 58.6 46.6	0.1 0.3 2.5	No No No
G56 - REC 577 G57 - REC 578 G58 - REC 582 G59 - REC 583 G60 - REC 585 NB 7 AA46 - REC 1823	Residential Residential Residential School Residential	B B C B	67 67 67 67 67 67	3 2 2 1 3	46.2 57.8 58.9 49.1 51.1	No No No No	57.7 58.6 46.6 49.5	0.1 0.3 2.5 1.6	No No No
G56 - REC 577 G57 - REC 578 G58 - REC 582 G59 - REC 583 G60 - REC 585 NB 7 AA46 - REC 1823 AA1 - REC 1881	Residential Residential Residential School Residential Place of Worship	B B C B C	67 67 67 67 67 67	3 2 2 1 3 1	46.2 57.8 58.9 49.1 51.1 58.5	No No No No No	57.7 58.6 46.6 49.5 57.9	0.1 0.3 2.5 1.6 0.6	No No No No
G56 - REC 577 G57 - REC 578 G58 - REC 582 G59 - REC 583 G60 - REC 585 NB 7 AA46 - REC 1823 AA1 - REC 1881 AA4 - REC 1880	Residential Residential Residential School Residential Place of Worship Residential	B B C B C B	67 67 67 67 67 67 67 67	3 2 2 1 3 1 4	46.2 57.8 58.9 49.1 51.1 58.5 66.5	No No No No No Yes	57.7 58.6 46.6 49.5 57.9 61.4	0.1 0.3 2.5 1.6 0.6 5.1	No No No No Yes
G56 - REC 577 G57 - REC 578 G58 - REC 582 G59 - REC 583 G60 - REC 585 NB 7 AA46 - REC 1823 AA1 - REC 1821 AA4 - REC 1881 AA4 - REC 1880 AA8 - REC 1858	Residential Residential Residential School Residential Place of Worship Residential Residential	B B C B C B B B	67 67 67 67 67 67 67 67	3 2 2 1 3 1 4 1	46.2 57.8 58.9 49.1 51.1 58.5 66.5 54.6	No No No No Yes No	57.7 58.6 46.6 49.5 57.9 61.4 50.6	0.1 0.3 2.5 1.6 0.6 5.1 4.0	No No No No Yes No
G56 - REC 577 G57 - REC 578 G58 - REC 582 G59 - REC 583 G60 - REC 585 NB 7 AA46 - REC 1823 AA1 - REC 1823 AA4 - REC 1881 AA4 - REC 1880 AA8 - REC 1858 AA9 - REC 1857	Residential Residential Residential School Residential Place of Worship Residential Residential Residential	B B C B C B B B B B	67 67 67 67 67 67 67 67 67	3 2 1 3 1 4 1 1	46.2 57.8 58.9 49.1 51.1 58.5 66.5 54.6 54	No No No No No Yes No No	57.7 58.6 46.6 57.9 61.4 50.6 49.1	0.1 0.3 2.5 1.6 0.6 5.1 4.0 4.9	No No No No Yes No No
G56 - REC 577 G57 - REC 578 G58 - REC 582 G59 - REC 583 G60 - REC 585 NB 7 AA46 - REC 1823 AA4 - REC 1881 AA4 - REC 1880 AA8 - REC 1880 AA8 - REC 1858 AA9 - REC 1857 AA10 - REC 1856	Residential Residential School Residential Place of Worship Residential	B B C B C B B B B B B	67 67 67 67 67 67 67 67 67 67 67	3 2 2 1 3 1 4 1 1 1 1	46.2 57.8 58.9 49.1 51.1 58.5 66.5 54.6 54 53.6	No No No No Yes No No	57.7 58.6 46.6 49.5 57.9 61.4 50.6 49.1 48.8	0.1 0.3 2.5 1.6 0.6 5.1 4.0 4.9 4.8	No No No No Yes No
G56 - REC 577 G57 - REC 578 G58 - REC 582 G59 - REC 583 G60 - REC 585 NB 7 AA46 - REC 1823 AA1 - REC 1823 AA4 - REC 1881 AA4 - REC 1858 AA9 - REC 1858 AA9 - REC 1857 AA10 - REC 1855	Residential Residential School Residential Place of Worship Residential Residential Residential Residential Residential Residential Residential	B B C B B B B B B B B	67 67 67 67 67 67 67 67 67 67 67 67 67	3 2 2 1 3 1 4 1 1 1 1 1	46.2 57.8 58.9 49.1 51.1 58.5 66.5 54.6 54 53.6 53.4	No No No No No Yes No	57.7 58.6 46.6 57.9 61.4 50.6 49.1 48.8 48.5	0.1 0.3 2.5 1.6 0.6 5.1 4.0 4.9 4.8 4.9	No No No Yes No
G56 - REC 577 G57 - REC 578 G58 - REC 582 G59 - REC 583 G60 - REC 585 NB 7 AA46 - REC 1823 AA4 - REC 1881 AA4 - REC 1880 AA8 - REC 1858 AA9 - REC 1857 AA10 - REC 1855 AA11 - REC 1855 AA12 - REC 1854	Residential Residential School Residential Place of Worship Residential	B B C B B B B B B B B B B B B B	67 67 67 67 67 67 67 67 67 67 67 67 67 6	3 2 2 1 3 1 4 1 1 1 1 1 1 1	46.2 57.8 58.9 49.1 51.1 58.5 66.5 54.6 54 53.6 53.4 53.4 52.9	No No No No Yes No No Yes No No No	57.7 58.6 46.6 49.5 57.9 61.4 50.6 49.1 48.8 48.5 48.3	0.1 0.3 2.5 1.6 0.6 5.1 4.0 4.9 4.8 4.9 4.6	No No No No Yes No
G56 - REC 577 G57 - REC 578 G58 - REC 582 G59 - REC 583 G60 - REC 585 NB7 AA46 - REC 1823 AA1 - REC 1881 AA4 - REC 1881 AA4 - REC 1880 AA8 - REC 1857 AA10 - REC 1857 AA11 - REC 1855 AA12 - REC 1854 AA13 - REC 1859	Residential Residential School Residential Place of Worship Residential	B B C B C B	67 67 67 67 67 67 67 67 67 67 67 67 67 6	3 2 2 1 3 1 4 1 1 1 1 1 1 1 3	46.2 57.8 58.9 49.1 51.1 58.5 66.5 54.6 54.6 53.6 53.4 53.4 52.9 52.5	No No No No Ves No	57.7 58.6 46.6 49.5 57.9 61.4 50.6 49.1 48.8 48.5 48.3 48.3	0.1 0.3 2.5 1.6 0.6 5.1 4.0 4.9 4.8 4.9 4.6 4.5	No No No No Ves No
G56 - REC 577 G57 - REC 578 G58 - REC 582 G59 - REC 583 G60 - REC 585 NB7 AA46 - REC 1823 AA1 - REC 1881 AA4 - REC 1880 AA9 - REC 1858 AA9 - REC 1858 AA10 - REC 1855 AA11 - REC 1855 AA12 - REC 1854 AA13 - REC 1859 AA14.1 - REC 1859 AA14.1 - REC 1855	Residential Residential Residential School Residential Place of Worship Residential	B B C B C B	67 67 67 67 67 67 67 67 67 67 67 67 67 6	3 2 2 1 3 1 4 1 1 1 1 1 1 1 1 3 2	46.2 57.8 58.9 49.1 51.1 58.5 66.5 54.6 53.6 53.4 52.9 52.5 50.7	No No No No Yes No	57.7 58.6 46.6 49.5 57.9 61.4 50.6 49.1 48.8 48.5 48.3 48.3 48.8	0.1 0.3 2.5 1.6 0.6 5.1 4.0 4.9 4.8 4.9 4.8 4.9 4.6 4.5 1.9	No No No No Ves No
G56 - REC 577 G57 - REC 578 G58 - REC 582 G59 - REC 583 G60 - REC 585 NB 7 AA46 - REC 1823 AA1 - REC 1881 AA4 - REC 1880 AA8 - REC 1858 AA9 - REC 1858 AA10 - REC 1855 AA11 - REC 1855 AA12 - REC 1854 AA13 - REC 1854 AA13 - REC 1859 AA14.1 - REC 1865 AA14.2 - REC 2268	Residential Residential Residential School Residential Place of Worship Residential	B B C B C B	67 67	3 2 2 1 3 1 4 1 1 1 1 1 1 1 3 2 2 2	46.2 57.8 58.9 49.1 51.1 58.5 66.5 54.6 54 53.6 53.4 53.4 52.9 52.5 50.7 52.3	No No No No No Yes No	57.7 58.6 46.6 49.5 57.9 61.4 50.6 49.1 48.8 48.5 48.3 48.5 48.3 48.5 48.3 50.5	0.1 0.3 2.5 1.6 0.6 5.1 4.0 4.9 4.8 4.9 4.6 4.5 1.9 1.8	No No No No Ves No No
G56 - REC 577 G57 - REC 578 G58 - REC 582 G59 - REC 583 G60 - REC 585 NB 7 AA46 - REC 1823 AA1 - REC 1881 AA4 - REC 1880 AA8 - REC 1858 AA9 - REC 1856 AA10 - REC 1855 AA12 - REC 1855 AA12 - REC 1854 AA13 - REC 1859 AA14.1 - REC 1865 AA14.2 - REC 2268 AA15 - REC 2268 AA15 - REC 1866	Residential Residential Residential School Residential Place of Worship Residential	B B C B C B	67 67	3 2 2 1 3 3 1 4 1 1 1 1 1 1 1 3 2 2 2 4	46.2 57.8 58.9 49.1 51.1 58.5 66.5 54.6 53.4 52.9 52.5 50.7 52.3 48.8	No No No No No Yes No	57.7 58.6 46.6 49.5 57.9 61.4 50.6 49.1 48.8 48.5 48.3 48.5 48.3 48.5 48.3 48.5 48.3 48.5 48.8 48.8 48.8 48.8 48.8 48.8	0.1 0.3 2.5 1.6 0.6 5.1 4.0 4.9 4.8 4.9 4.6 4.5 1.9 1.8 1.0	No No No No Ves No
G56 - REC 577 G57 - REC 578 G58 - REC 582 G59 - REC 583 G60 - REC 585 NB7 AA46 - REC 1823 AA1 - REC 1881 AA4 - REC 1880 AA8 - REC 1858 AA9 - REC 1857 AA10 - REC 1855 AA11 - REC 1855 AA12 - REC 1854 AA13 - REC 1854 AA13 - REC 1855 AA14 REC 1854 AA14 REC 1854 AA15 - REC 1865 AA14 REC 1865 AA14 REC 1866 AA15 - REC 1866 AA16-1 - REC 1853	Residential Residential Residential School Residential Place of Worship Residential	B B C B C B	67 67	3 2 2 1 3 4 1 1 1 1 1 1 1 3 2 2 2 4 1	46.2 57.8 58.9 49.1 51.1 58.5 66.5 54.6 53.4 52.9 52.5 50.7 52.3 48.8 57.6	No No No No No Yes No	57.7 58.6 46.6 49.5 57.9 61.4 50.6 49.1 48.8 48.5 48.3 48.3 48.3 48.3 48 50.5 47.8 53	0.1 0.3 2.5 1.6 0.6 5.1 4.0 4.9 4.8 4.9 4.6 4.5 1.9 1.8 1.0 4.6	No No No No Yes No
G56 - REC 577 G57 - REC 578 G58 - REC 582 G59 - REC 583 G60 - REC 585 NB 7 AA46 - REC 1823 AA4 - REC 1881 AA4 - REC 1881 AA4 - REC 1880 AA8 - REC 1858 AA9 - REC 1857 AA10 - REC 1856 AA11 - REC 1855 AA12 - REC 1854 AA13 - REC 1865 AA14 - REC 1853 AA16 - REC 1854	Residential Residential Residential School Residential Place of Worship Residential	B B C B C B	67 67	3 2 2 1 3 3 1 4 4 1 1 1 1 1 1 1 3 2 2 2 4 1 3	46.2 57.8 58.9 49.1 51.1 58.5 66.5 54.6 53.6 53.4 52.9 52.5 50.7 52.3 48.8 57.6 46.3	No No No No No Yes No	57.7 58.6 46.6 49.5 57.9 61.4 50.6 49.1 48.8 48.5 48.3 48.3 48.3 48.3 48.3 50.5 47.8 53 45.1	0.1 0.3 2.5 1.6 0.6 5.1 4.0 4.9 4.8 4.9 4.6 4.5 1.9 1.8 1.0 4.6 1.2	No No No No Yes No No
G56 - REC 577 G57 - REC 578 G58 - REC 582 G59 - REC 583 G60 - REC 585 NB 7 AA46 - REC 1823 AA1 - REC 1881 AA4 - REC 1880 AA8 - REC 1880 AA8 - REC 1858 AA9 - REC 1856 AA10 - REC 1855 AA10 - REC 1855 AA12 - REC 1854 AA13 - REC 1865 AA14 - REC 1865 AA15 - REC 1866 AA15 - REC 1853 AA16 - 1 - REC 1853 AA16 - 2 - REC 1864 AA17 - REC 1852	Residential Residential Residential School Residential Place of Worship Residential	B B C B C B	67 67	3 2 2 1 3 1 4 1 1 1 1 1 1 1 1 3 2 2 4 4 1 3 1	46.2 57.8 58.9 49.1 51.1 58.5 66.5 54.6 53.6 53.6 52.5 50.7 52.3 48.8 57.6 46.3 56.1	No No No No No Yes No	57.7 58.6 46.6 49.5 57.9 61.4 50.6 49.1 48.8 48.5 48.3 48.3 48.3 48.3 48.3 50.5 47.8 53 45.1 49.8	0.1 0.3 2.5 1.6 0.6 5.1 4.0 4.9 4.8 4.9 4.8 4.9 4.6 4.5 1.9 1.8 1.0 4.6 1.2 6.3	No No No No Yes No No
G56 - REC 577 G57 - REC 578 G58 - REC 582 G59 - REC 583 G60 - REC 585 NB 7 AA46 - REC 1823 AA1 - REC 1881 AA4 - REC 1880 AA8 - REC 1858 AA9 - REC 1858 AA9 - REC 1855 AA10 - REC 1855 AA10 - REC 1855 AA12 - REC 1854 AA13 - REC 1855 AA14 - REC 1855 AA14 - REC 1855 AA14 - REC 1855 AA15 - REC 1866 AA16 - REC 1853 AA16 - 2 REC 1864 AA17 - REC 1852 AA18 - REC 1851	Residential Residential Residential School Residential Place of Worship Residential	B B C B C B	67 67	3 2 2 1 3 1 4 1 1 1 1 1 1 1 1 2 2 2 4 1 3 1 1 1 1	46.2 57.8 58.9 49.1 51.1 58.5 66.5 54.6 53.6 53.4 52.9 52.5 50.7 52.3 48.8 57.6 46.3 54.1	No No No No No Yes No	57.7 58.6 46.6 49.5 57.9 61.4 50.6 49.1 48.8 48.5 48.3 48.3 48.3 48.3 48.3 48.3 50.5 53 45.1 49.8 50.5	0.1 0.3 2.5 1.6 0.6 5.1 4.0 4.9 4.8 4.9 4.8 4.9 4.6 4.5 1.9 1.8 1.0 4.6 1.2 6.3 3.6	No No No No Yes No No
G56 - REC 577 G57 - REC 578 G58 - REC 582 G59 - REC 583 G60 - REC 585 NB 7 AA46 - REC 1823 AA1 - REC 1881 AA4 - REC 1880 AA8 - REC 1858 AA9 - REC 1858 AA9 - REC 1855 AA10 - REC 1855 AA11 - REC 1855 AA12 - REC 1865 AA14 - REC 1865 AA14 - REC 1865 AA14 - REC 1866 AA15 - REC 1866 AA16 - REC 1853 AA16 - REC 1853 AA16 - REC 1854 AA17 - REC 1853 AA16 - REC 1854 AA17 - REC 1854 AA17 - REC 1854 AA15 - REC 1856 AA16 - REC 1853 AA16 - REC 1852	Residential Residential Residential School Residential Place of Worship Residential	B B C B C B	67 67	3 2 2 1 3 1 4 1 1 1 1 1 1 1 1 3 2 2 4 4 1 3 1	46.2 57.8 58.9 49.1 51.1 58.5 66.5 54.6 53.6 53.6 52.5 50.7 52.3 48.8 57.6 46.3 56.1	No No No No No Yes No	57.7 58.6 46.6 49.5 57.9 61.4 50.6 49.1 48.8 48.5 48.3 48.3 48.3 48.3 48.3 50.5 47.8 53 45.1 49.8	0.1 0.3 2.5 1.6 0.6 5.1 4.0 4.9 4.8 4.9 4.8 4.9 4.6 4.5 1.9 1.8 1.0 4.6 1.2 6.3	No No No No Yes No No
G56 - REC 577 G57 - REC 578 G58 - REC 582 G59 - REC 583 G60 - REC 585 NB 7 AA46 - REC 1823 AA1 - REC 1881 AA4 - REC 1880 AA8 - REC 1858 AA9 - REC 1858 AA9 - REC 1855 AA10 - REC 1855 AA11 - REC 1855 AA12 - REC 1854 AA13 - REC 1854 AA13 - REC 1855 AA14 - REC 1855 AA14 - REC 1856 AA15 - REC 1866 AA16 - 1 - REC 1853 AA16 - 2 - REC 1864 AA17 - REC 1852 AA18 - REC 1851	Residential Residential Residential School Residential Place of Worship Residential	B B C B C B	67 67	3 2 2 1 3 1 4 1 1 1 1 1 1 1 1 2 2 2 4 1 3 1 1 1 1	46.2 57.8 58.9 49.1 51.1 58.5 66.5 54.6 53.6 53.4 52.9 52.5 50.7 52.3 48.8 57.6 46.3 54.1	No No No No No Yes No	57.7 58.6 46.6 49.5 57.9 61.4 50.6 49.1 48.8 48.5 48.3 48.3 48.3 48.3 48.3 48.3 50.5 53 45.1 49.8 50.5	0.1 0.3 2.5 1.6 0.6 5.1 4.0 4.9 4.8 4.9 4.8 4.9 4.6 4.5 1.9 1.8 1.0 4.6 1.2 6.3 3.6	No No No No Yes No No
G56 - REC 577 G57 - REC 578 G58 - REC 582 G59 - REC 583 G60 - REC 585 NB 7 AA46 - REC 1823 AA1 - REC 1881 AA4 - REC 1880 AA8 - REC 1858 AA9 - REC 1857 AA10 - REC 1855 AA12 - REC 1855 AA12 - REC 1854 AA13 - REC 1855 AA14 - REC 1855 AA14 - REC 1855 AA14 - REC 1865 AA15 - REC 1866 AA16 - REC 1853 AA16 - REC 1853 AA16 - REC 1854 AA17 - REC 1852 AA18 - REC 1852 AA18 - REC 1851 AA19 - REC 1851 AA19 - REC 1850	Residential Residential Residential School Residential Place of Worship Residential	B B C B C B	67 67	3 2 2 1 3 1 4 1 1 1 1 1 1 1 1 2 2 2 4 1 3 3 1 1 1 1 1	46.2 57.8 58.9 49.1 51.1 58.5 66.5 54.6 53.6 53.4 52.9 50.7 52.3 48.8 57.6 46.3 54.1 51.3	No No No No No Yes No	57.7 58.6 46.6 49.5 57.9 61.4 50.6 49.1 48.8 48.5 48.3 48.3 48.3 48.3 48.3 48.3 50.5 53 45.1 49.8 50.5 50.5 47	0.1 0.3 2.5 1.6 0.6 5.1 4.0 4.9 4.8 4.9 4.8 4.9 4.6 4.5 1.9 1.8 1.0 4.6 1.2 6.3 3.6 4.3	No No No No Ves No No
G56 - REC 577 G57 - REC 578 G58 - REC 582 G59 - REC 583 G60 - REC 585 NB 7 AA46 - REC 1823 AA1 - REC 1881 AA4 - REC 1880 AA8 - REC 1858 AA9 - REC 1857 AA10 - REC 1855 AA12 - REC 1855 AA12 - REC 1854 AA13 - REC 1855 AA14 - REC 1854 AA13 - REC 1855 AA14 - REC 1854 AA15 - REC 1866 AA16 - 1 - REC 1853 AA16 - REC 1854 AA16 - REC 1854 AA16 - REC 1854 AA16 - REC 1854 AA16 - REC 1854 AA17 - REC 1852 AA18 - REC 1851 AA19 - REC 1850 AA20 - REC 1849	Residential Residential Residential School Residential Place of Worship Residential	B B C B C B	67 67	3 2 2 1 3 1 4 1 1 1 1 1 1 1 1 3 2 2 2 4 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	46.2 57.8 58.9 49.1 51.1 58.5 66.5 54.6 53.6 53.4 52.9 50.7 52.3 48.8 57.6 46.3 54.1 51.3 50.6	No No No No No Yes No	57.7 58.6 46.6 49.5 57.9 61.4 50.6 49.1 48.8 48.3 48.3 48.3 48.3 48.3 48.3 48.3	0.1 0.3 2.5 1.6 0.6 5.1 4.0 4.9 4.8 4.9 4.6 4.5 1.9 1.8 1.0 4.6 1.2 6.3 3.6 4.3 2.8	No No No No No Yes No No
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G56 - REC 577 G57 - REC 578 G58 - REC 582 G59 - REC 583 G60 - REC 585 NB 7 AA46 - REC 1823 AA1 - REC 1881 AA4 - REC 1880 AA1 - REC 1855 AA1 - REC 1856 AA11 - REC 1856 AA12 - REC 1866 AA14 - REC 1853 AA15 - REC 1853 AA16 - REC 1853 AA16 - REC 1853 AA16 - REC 1851 AA17 - REC 1852 AA18 - REC 1851 AA20 - REC 1840 AA20 - REC 1841 AA22 - REC 1847 AA23 - REC 1844 AA24 - REC 1843 AA27 - REC 1844 AA26 - REC 1843 AA27 - REC 1844 AA28 - REC 1843 AA	Residential Residential Residential School Residential Place of Worship Residential	B B B C B C B	67 67	3 2 2 1 3 1 4 1 1 1 1 1 1 3 2 2 4 1 1 3 2 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1	46.2 57.8 58.9 49.1 51.1 58.5 66.5 54.6 53.6 53.6 52.5 50.7 52.3 48.8 57.6 46.3 56.1 54.1 51.3 50.6 46.3 56.1 54.1 51.3 50.6 46.3 56.1 54.1 51.3 50.6 45.5 44 67.9 68 59.2 58 56.7 68 52.5 52.3 49.8 48.9	No No No No No Yes No No	57.7 58.6 46.6 49.5 57.9 61.4 50.6 49.1 48.8 48.5 48.3 48 48.5 47.8 50.5 47 47.8 48.9 50.5 47 47.8 48.9 50.5 47 47.8 48.9 50.5 47 45.1 49.8 50.5 47 53 45.1 49.8 50.5 47 53 45.1 48.9 44.6 42 64.2 63.9 56.4 56.7 55.7 54.2 63.8 47.5	0.1 0.3 2.5 1.6 0.6 5.1 4.0 4.9 4.8 4.9 4.6 4.5 1.9 1.8 1.0 4.6 1.2 6.3 3.6 4.3 2.8 1.8 0.9 2.0 3.7 4.1 3.4 2.5 2.3 2.5 4.2 5.0 5.4 5.0 4.6	No No No No Yes No No
G56 - REC 577 G57 - REC 578 G58 - REC 582 G59 - REC 583 G60 - REC 585 NB 7 AA4 - REC 1823 AA1 - REC 1881 AA4 - REC 1880 AA4 - REC 1850 AA1 - REC 1855 AA1 - REC 1856 AA11 - REC 1855 AA12 - REC 2688 AA15 - REC 1850 AA14 - REC 1853 AA16 - REC 1853 AA16 - REC 1853 AA16 - REC 1853 AA16 - REC 1852 AA18 - REC 1851 AA19 - REC 1852 AA18 - REC 1851 AA2 - REC 1840 AA2 - REC 1841 AA22 - REC 1844 AA22 - REC 1844 AA24 - REC 1843 AA29 - REC 1844 AA20 - REC 1842 AA20 - REC 1843 AA21 - REC 1842 <tr tr=""></tr>	Residential Residential Residential School Place of Worship Residential	B B C B C B	67 67	3 2 2 1 3 1 4 1 1 1 1 1 1 3 2 2 4 1 3 2 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1	46.2 57.8 58.9 49.1 51.1 58.5 66.5 54.6 53.4 52.9 50.7 52.3 48.8 57.6 46.3 56.1 54.1 51.3 50.6 50.7 68 59.8 59.7 68 59.8 56.7 68 59.8 56.7 68 59.8 56.7 68 59.8 56.7 68 59.8 52.5 52.3 49.8 48.9 47.5	No No No No No Yes No No	57.7 58.6 46.6 49.5 57.9 61.4 50.6 49.1 48.8 48.5 48.3 48 48.5 50.5 47.8 50.5 47 47.8 48.9 44.6 42 64.2 63.9 56.4 55.7 54.2 63.8 47.5 46.9 44.8 44.3 44.6	0.1 0.3 2.5 1.6 0.6 5.1 4.0 4.9 4.8 4.9 4.6 4.5 1.9 1.8 1.0 4.6 1.2 6.3 3.6 4.3 2.8 1.8 0.9 2.0 3.7 4.1 3.4 2.5 2.3 2.5 4.2 5.0 5.4 5.0 4.6 2.9	No No No No Yes No No
G56 - REC 577 G57 - REC 578 G58 - REC 582 G59 - REC 583 G60 - REC 585 NB 7 AA46 - REC 1823 AA1 - REC 1881 AA4 - REC 1880 AA1 - REC 1855 AA1 - REC 1856 AA11 - REC 1856 AA12 - REC 1866 AA14 - REC 1853 AA15 - REC 1853 AA16 - REC 1853 AA16 - REC 1853 AA16 - REC 1851 AA17 - REC 1852 AA18 - REC 1851 AA20 - REC 1840 AA20 - REC 1841 AA22 - REC 1847 AA23 - REC 1844 AA24 - REC 1843 AA27 - REC 1844 AA26 - REC 1843 AA27 - REC 1844 AA28 - REC 1843 AA	Residential Residential Residential School Residential Place of Worship Residential	B B B C B C B	67 67	3 2 2 1 3 1 4 1 1 1 1 1 1 3 2 2 4 1 1 3 2 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1	46.2 57.8 58.9 49.1 51.1 58.5 66.5 54.6 53.6 53.6 52.5 50.7 52.3 48.8 57.6 46.3 56.1 54.1 51.3 50.6 46.3 56.1 54.1 51.3 50.6 46.3 56.1 54.1 51.3 50.6 45.5 44 67.9 68 59.2 58 56.7 68 52.5 52.3 49.8 48.9	No No No No No Yes No No	57.7 58.6 46.6 49.5 57.9 61.4 50.6 49.1 48.8 48.5 48.3 48 48.5 47.8 50.5 47 47.8 48.9 50.5 47 47.8 48.9 50.5 47 47.8 48.9 50.5 47 45.1 49.8 50.5 47 53 45.1 49.8 50.5 47 53 45.1 48.9 44.6 42 64.2 63.9 56.4 56.7 55.7 54.2 63.8 47.5	0.1 0.3 2.5 1.6 0.6 5.1 4.0 4.9 4.8 4.9 4.6 4.5 1.9 1.8 1.0 4.6 1.2 6.3 3.6 4.3 2.8 1.8 0.9 2.0 3.7 4.1 3.4 2.5 2.3 2.5 4.2 5.0 5.4 5.0 4.6	No No No No Yes No No

RECEIVER ID	DESCRIPTION	CATEGORY	CRITERIA	RECEPTORS		IMPACT	FUTURE W/	NOISE BARRIER	BENEFITED
AA38 - REC 1827	Residential	В	67	1	W/O BARRIER 49	No	48.1	0.9	RECEPTOR No
AA40 - REC 1839	Residential	B	67	1	48.3	No	47.5	0.8	No
AA41 - REC 1838	Residential	B	67	1	47.3	No	46.2	1.1	No
AA42 - REC 1837	Residential	В	67	1	46.8	No	45.5	1.3	No
AA43.1 - REC 1833	Residential	В	67	1	44	No	42.3	1.7	No
AA43.2 - REC 2266	Residential	В	67	1	46.4	No	44.2	2.2	No
AA44.1 - REC 1834	Residential	В	67	1	50.5	No	47.2	3.3	No
AA44.2 - REC 2267	Residential	В	67	1	52.7	No	48.8	3.9	No
AA45 - REC 1826	Residential	В	67	3	51.6	No	50.2	1.4	No
AA47 - REC 1820	Residential	В	67	1	51.4	No	49.4	2.0	No
AA48 - REC 1819	Residential	В	67	1	51.7	No	49.6	2.1	No
AA49 - REC 1871	Residential	В	67	2	68.2	Yes	63.4	4.8	No
AA50.1 - REC 1872	Residential	В	67	2	74.2	Yes	65.2	9.0	Yes
AA50.2 - REC 2263	Residential	В	67	2	75.1	Yes	66.5	8.6	Yes
AA50.3 - REC 2264	Residential	В	67	2	75.2	Yes	71.3	3.9	No
AA51.1 - REC 1873	Residential	В	67	6	74.4	Yes	68.1	6.3	Yes
AA51.2 - REC 2265	Residential	В	67	6	74.8	Yes	69.2	5.6	Yes
AA52.1 - REC 1877	Residential	В	67	4	67	Yes	65	2.0	No
AA52.2 - REC 1878	Residential	В	67	4	70	Yes	66.2	3.8	No
AA53.1 - REC 1874	Residential	В	67	6	67.1	Yes	65.3	1.8	No
AA53.2 - REC 1875	Residential	В	67	6	70	Yes	66.2	3.8	No
AA53.3 - REC 1876	Residential	В	67	6	72.4	Yes	67.2	5.2	Yes
AA54 - REC 1818	Place of Worship	С	67	1	52.4	No	50.6	1.8	No
AA58-2 - REC 1815	Residential	В	67	3	45.8	No	43.5	2.3	No
AA59 - REC 1812	Residential	В	67	3	51.5	No	48.9	2.6	No
AA60 - REC 1785	Residential	В	67	2	66.5	Yes	63.6	2.9	No
AA61 - REC 1784	Residential	В	67	2	67.3	Yes	64.1	3.2	No
AA62 - REC 1783	Residential	В	67	1	66.7	Yes	63.6	3.1	No
AA63 - REC 1806	Residential	В	67	3	50.4	No	48.8	1.6	No
AA64 - REC 1781	Residential	В	67	1	66.8	Yes	63.4	3.4	No
AA65 - REC 1782	Residential	В	67	1	66.5	Yes	63.3	3.2	No
AA66 - REC 1780	Residential	В	67	2	66.7	Yes	63.4	3.3	No
AA72.1 - REC 1795	Residential	В	67	2	48.5	No	47.1	1.4	No
AA72.2 - REC 2269	Residential	В	67	2	49.4	No	47.6	1.8	No
AA73 - REC 1798	Residential	В	67	3	50.7	No	49.5	1.2	No
Z1 - REC 1775	Residential	В	67	1	58	No	54.3	3.7	No
Z4.1 - REC 1777	Residential	В	67	1	66.2	Yes	59.1	7.1	Yes
Z4.2 - REC 1778	Residential	В	67	1	71.3	Yes	60.7	10.6	Yes
NB 8				-					
H14 - REC 738	Residential	В	67	1	66.7	Yes	55.1	11.6	Yes
H15 - REC 739	Residential	В	67	1	60.6	No	58.7	1.9	No
H16 - REC 741	Residential	В	67	2	60.4	No	57.8	2.6	No
H17 - REC 732	Residential	В	67	1	70.2	Yes	64.2	6.0	Yes
H18.1 - REC 733	Residential	В	67	1	68.1	Yes	59	9.1	Yes
H18.2 - REC 734	Residential	В	67	1	68.9	Yes	60.3	8.6	Yes
H19 - REC 735	Residential	В	67	2	67.2	Yes	60.2	7.0	Yes
H20 - REC 737	Residential	В	67	1	66.3	Yes	59.4	6.9	Yes
H21 - REC 736 H22 - REC 744	Residential	В	67	1	64.5	No	54.4 55.6	10.1	Yes
	Place of Worship	С	67	1	59.3	No		3.7	No
H23.1 - REC 747 H23.2 - REC 748	Residential	B	67 67	1	71.8 72.8	Yes Yes	64.3 65.7	7.5	Yes Yes
H23.2 - REC 748 H24 - REC 745	Residential Residential	B	67	1	63	Yes No	65.7 55.7	7.1	Yes
H24 - REC 745 H25 - REC 743	School	C	67	1	58.8		53.7		Yes
H25 - REC 743 H26 - REC 751	School	C C	67	1	58.8	No No	53.7	5.1 4.9	Yes No
H26 - REC 751 H27 - REC 746	Residential	B	67	2	69.7	Yes	62.7	7.0	Yes
1127 - NEG 740	IVESIGEI III di			1	58.2	No Yes	53.4		
H28 - REC 752	School				10./	INU	33.4	4.8	No
H28 - REC 752	School	C	67 72				61 /	2.1	No
H29 - REC 749	School Restaurant	E	72	1	64.5	No	61.4	3.1	No
H29 - REC 749 NB 9	Restaurant	E	72	1	64.5	No			
H29 - REC 749 NB 9 I62 - REC 841	Restaurant Place of Worship	E	72 67	1	64.5 54.6	No No	51	3.6	No
H29 - REC 749 NB 9 I62 - REC 841 I64 - REC 852	Restaurant Place of Worship Residential	E C B	72 67 67	1 1 1	64.5 54.6 66.4	No No Yes	51 60.6	3.6 5.8	No Yes
H29 - REC 749 NB 9 I62 - REC 841 I64 - REC 852 I65 - REC 851	Restaurant Place of Worship Residential Residential	E C B B	72 67 67 67	1 1 1 1	64.5 54.6 66.4 63.2	No No Yes No	51 60.6 59.9	3.6 5.8 3.3	No Yes No
H29 - REC 749 NB 9 I62 - REC 841 I64 - REC 852 I65 - REC 851 I67 - REC 863	Restaurant Place of Worship Residential Residential Residential	E C B B B B	72 67 67 67 67 67	1 1 1 1 1 1	64.5 54.6 66.4 63.2 64	No No Yes No No	51 60.6 59.9 60.2	3.6 5.8 3.3 3.8	No Yes No No
H29 - REC 749 NB 9 162 - REC 841 164 - REC 852 165 - REC 851 167 - REC 863 168 - REC 864	Restaurant Place of Worship Residential Residential Residential Residential	E C B B B B B	72 67 67 67 67 67 67	1 1 1 1 1 1 1	64.5 54.6 66.4 63.2 64 65.4	No No Yes No No No	51 60.6 59.9 60.2 61.2	3.6 5.8 3.3 3.8 4.2	No Yes No No No
H29 - REC 749 NB 9 162 - REC 841 164 - REC 852 165 - REC 851 167 - REC 863 168 - REC 864 169 - REC 865	Restaurant Place of Worship Residential Residential Residential Residential Residential	E C B B B B B B B	72 67 67 67 67 67 67	1 1 1 1 1 1 1 1	64.5 54.6 66.4 63.2 64 65.4 63	No No Yes No No No No	51 60.6 59.9 60.2 61.2 59.5	3.6 5.8 3.3 3.8 4.2 3.5	No Yes No No No
H29 - REC 749 NB 9 162 - REC 841 164 - REC 852 165 - REC 851 167 - REC 863 168 - REC 864 169 - REC 865 170 - REC 866	Restaurant Place of Worship Residential Residential Residential Residential Residential Residential	E C B B B B B B B B	72 67 67 67 67 67 67 67	1 1 1 1 1 1 1 1 1 1	64.5 54.6 66.4 63.2 64 65.4 63 56.8	No No Yes No No No No	51 60.6 59.9 60.2 61.2 59.5 54.8	3.6 5.8 3.3 3.8 4.2 3.5 2.0	No Yes No No No No
H29 - REC 749 NB 9 I62 - REC 841 I64 - REC 852 I65 - REC 851 I67 - REC 863 I68 - REC 864 I69 - REC 865 I70 - REC 866 I71 - REC 868	Restaurant Place of Worship Residential Residential Residential Residential Residential Residential Residential	E C B B B B B B B B B B	72 67 67 67 67 67 67 67 67	1 1 1 1 1 1 1 1 1 1 1 1	64.5 54.6 66.4 63.2 64 65.4 63 56.8 64.2	No Yes No No No No No No	51 60.6 59.9 60.2 61.2 59.5 54.8 62	3.6 5.8 3.3 3.8 4.2 3.5 2.0 2.2	No Yes No No No No No
H29 - REC 749 NB 9 162 - REC 841 164 - REC 852 165 - REC 851 167 - REC 863 168 - REC 864 169 - REC 865 170 - REC 866 171 - REC 868 172 - REC 867	Restaurant Place of Worship Residential Residential Residential Residential Residential Residential Residential Residential	E C B B B B B B B B B B B B	72 67 67 67 67 67 67 67 67 67 67	1 1 1 1 1 1 1 1 1 1 1 1 1	64.5 54.6 66.4 63.2 64 65.4 63 56.8 64.2 43.1	No No No No No No No No No	51 60.6 59.9 60.2 61.2 59.5 54.8 62 40.2	3.6 5.8 3.3 3.8 4.2 3.5 2.0 2.2 2.9	No Yes No No No No No No
H29 - REC 749 NB 9 I62 - REC 841 I64 - REC 852 I65 - REC 851 I67 - REC 863 I68 - REC 864 I69 - REC 865 I70 - REC 866 I71 - REC 866 I72 - REC 867 I73 - REC 853	Restaurant Place of Worship Residential	E C B B B B B B B B B B B B B	72 67 67 67 67 67 67 67 67 67 67 67	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	64.5 54.6 66.4 63.2 64 65.4 63 56.8 64.2 43.1 59.2	No Yes No No No No No No No No	51 60.6 59.9 60.2 61.2 59.5 59.5 54.8 62 40.2 56.5	3.6 5.8 3.3 4.2 3.5 2.0 2.2 2.9 2.7	No Yes No No No No No No No No No
H29 - REC 749 NB 9 162 - REC 841 164 - REC 852 165 - REC 851 167 - REC 863 168 - REC 864 169 - REC 864 170 - REC 866 171 - REC 868 172 - REC 867 173 - REC 853 174 - REC 854	Restaurant Place of Worship Residential Residential	E C B B B B B B B B B B B B B B B B C	72 67 67 67 67 67 67 67 67 67 67	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	64.5 54.6 66.4 63.2 64 65.4 63 56.8 64.2 43.1 59.2 58.6	No Yes No No No No No No No No No	51 60.6 59.9 60.2 61.2 59.5 54.8 62 40.2 56.5 56	3.6 5.8 3.3 3.8 4.2 3.5 2.0 2.2 2.9 2.7 2.6	No Yes No No
H29 - REC 749 NB 9 I62 - REC 841 I64 - REC 852 I65 - REC 851 I67 - REC 863 I68 - REC 864 I69 - REC 865 I70 - REC 866 I71 - REC 866 I72 - REC 867 I73 - REC 853	Restaurant Place of Worship Residential	E C B B B B B B B B B B B B B	72 67 67 67 67 67 67 67 67 67 67 67	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	64.5 54.6 66.4 63.2 64 65.4 63 56.8 64.2 43.1 59.2	No Yes No No No No No No No No	51 60.6 59.9 60.2 61.2 59.5 59.5 54.8 62 40.2 56.5	3.6 5.8 3.3 4.2 3.5 2.0 2.2 2.9 2.7	No Yes No No No No No No No No No

RECEIVER ID	DESCRIPTION	CATEGORY	CRITERIA	RECEPTORS	FUTURE	IMPACT	FUTURE W/	NOISE BARRIER	BENEFITED
178 - REC 858	Residential	В	67	1	W/O BARRIER 54.2	No	BARRIER 52	2.2	RECEPTOR No
178 - REC 858	Residential	B	67	1	53.8	No	51.4	2.2	No
180 - REC 860	Residential	B	67	1	54.7	No	52.7	2.0	No
I81 - REC 861	Residential	B	67	1	56.4	No	56	0.4	No
182 - REC 870	Residential	В	67	3	51	No	49.4	1.6	No
184 - REC 873	Residential	В	67	1	53.4	No	52.8	0.6	No
NB 10									
K11 - REC 908	Residential	В	67	1	61.9	No	58	3.9	No
K12 - REC 910	Residential	В	67	1	56.7	No	54.1	2.6	No
K15 - REC 907	Residential	В	67	1	62.5	No	57.8	4.7	No
K16 - REC 909	Residential	В	67	1	65	No	60.1	4.9	No
K17 - REC 923 K18.1 - REC 924	Residential Residential	B	67	1	65.8 65.3	No	58.8 58.3	7.0	Yes
K18.2 - REC 925	Residential	B	67 67	1	69.9	No Yes	59.2	7.0 10.7	Yes Yes
K18.2 - REC 925	Residential	B	67	2	57.5	No	53.8	3.7	No
K20 - REC 922	Residential	B	67	1	57.4	No	52.9	4.5	No
K21 - REC 917	Residential	B	67	3	55.3	No	52.8	2.5	No
K22 - REC 921	Residential	В	67	4	55.4	No	52.6	2.8	No
K28.1 - REC 931	Residential	В	67	1	57.3	No	54.6	2.7	No
K28.2 - REC 932	Residential	В	67	1	60.4	No	58	2.4	No
K29.1 - REC 937	Residential	В	67	1	55.3	No	52.6	2.7	No
K29.2 - REC 938	Residential	В	67	1	57.1	No	54	3.1	No
K30 - REC 943	Residential	В	67	1	51.4	No	48.3	3.1	No
K31 - REC 926	Residential	В	67	1	60.7	No	57.4	3.3	No
K32 - REC 927	Residential	В	67	1	62.6	No	59.2	3.4	No
K33 - REC 933	Residential	B	67	3	53.6	No	50.6	3.0	No
K34 - REC 940 K35 - REC 941	Residential Residential	B	67 67	3	49.7 48.9	No No	47 46.3	2.7 2.6	No
NB 11	Residential	В	67	2	48.9	NO	40.3	2.0	NO
M67 - REC 1052	Residential	В	67	1	61.9	No	59.2	2.7	No
M68 - REC 1053	Residential	B	67	1	57.1	No	54.8	2.3	No
M69 - REC 1054	Residential	В	67	1	55.3	No	53	2.3	No
M71 - REC 1055	Residential	В	67	1	64.8	No	62.2	2.6	No
M72 - REC 1056	Residential	В	67	1	59.8	No	57.9	1.9	No
M73 - REC 1057	Residential	В	67	1	58.4	No	56.5	1.9	No
M74 - REC 1058	Residential	В	67	1	56.9	No	55.1	1.8	No
M75 - REC 1060	Residential	В	67	2	53.1	No	51.3	1.8	No
M77 - REC 1051	Active Sport Area	С	67	1	49.6	No	47.7	1.9	No
M78 - REC 1064	Residential	В	67	2	72.2	Yes	62.2	10.0	Yes
M79 - REC 1065	Residential	В	67	1	56.2	No	51.4	4.8	No
M80 - REC 1066 M81 - REC 1067	Residential Residential	B	67 67	1	53.6 51.6	No	49.4 47.6	4.2 4.0	No
M82 - REC 1067	Residential	B	67	1	50.1	No No	46.3	3.8	No
M83.1 - REC 1079	Residential	B	67	1	49.4	No	45.6	3.8	No
M83.2 - REC 1080	Residential	В	67	1	51	No	46.5	4.5	No
M84 - REC 1069	Residential	В	67	1	48.4	No	44.7	3.7	No
M85.1 - REC 1073	Residential	В	67	1	69.4	Yes	58.2	11.2	Yes
M85.2 - REC 1074	Residential	В	67	1	71.4	Yes	60.1	11.3	Yes
M86.1 - REC 1075	Residential	В	67	1	67.9	Yes	57.7	10.2	Yes
M86.2 - REC 1076	Residential	В	67	1	65	No	55.7	9.3	Yes
M87.1 - REC 1078	Residential	В	67	1	54.6	No	50.9	3.7	No
M87.2 - REC 1077	Residential	B	67	1	56.6	No	52.4	4.2	No
M88 - REC 1070 M89 - REC 1071	Residential	B	67 67	1	52.8	No	48.6	4.2	No
M89 - REC 1071 M90 - REC 1072	Residential Residential	B	67	1	52.5 51.2	No No	48.4 47	4.1 4.2	No
M90 - REC 1072 M91 - REC 1081	Residential	B	67	1	63.7	No	60.2	4.2	NO
	-		67	1	60.6	No	57.9	2.7	No
M92 - REC 1082	Residential	В							
	Residential	B	67	1	58.8	No	56.6	2.2	No
M93 - REC 1083					58.8 56.4	No No	56.6 54.4	2.2	No
M92 - REC 1082 M93 - REC 1083 M94 - REC 1093 M96 - REC 1084	Residential	В	67	1					
M93 - REC 1083 M94 - REC 1093	Residential Residential	BB	67 67	1 2	56.4	No	54.4	2.0	No
M93 - REC 1083 M94 - REC 1093 M96 - REC 1084 M97 - REC 1085 M98 - REC 1086	Residential Residential Residential Residential Residential	B B B B B B	67 67 67	1 2 1 1 1	56.4 53 51.8 51.2	No No	54.4 52 50.9 50.3	2.0 1.0	No No
M93 - REC 1083 M94 - REC 1093 M96 - REC 1084 M97 - REC 1085 M98 - REC 1086 M99 - REC 1088	Residential Residential Residential Residential Residential Residential	B B B B B B B	67 67 67 67 67 67 67	1 2 1 1 1 1 2	56.4 53 51.8 51.2 49.9	No No No No	54.4 52 50.9 50.3 49.1	2.0 1.0 0.9 0.9 0.8	No No No No
M93 - REC 1083 M94 - REC 1093 M96 - REC 1084 M97 - REC 1085 M98 - REC 1086 M99 - REC 1088 M100 - REC 1091	Residential Residential Residential Residential Residential Residential Residential	B B B B B B B B	67 67 67 67 67 67 67	1 2 1 1 1 2 2 2	56.4 53 51.8 51.2 49.9 50.2	No No No No No	54.4 52 50.9 50.3 49.1 49	2.0 1.0 0.9 0.9 0.8 1.2	No No No No No
M93 - REC 1083 M94 - REC 1093 M96 - REC 1084 M97 - REC 1085 M98 - REC 1086 M99 - REC 1088 M100 - REC 1091 M101 - REC 1089	Residential Residential Residential Residential Residential Residential Residential	B B B B B B B B B	67 67 67 67 67 67 67 67	1 2 1 1 2 2 2 1	56.4 53 51.8 51.2 49.9 50.2 59.9	No No No No No No	54.4 52 50.9 50.3 49.1 49 58.1	2.0 1.0 0.9 0.9 0.8 1.2 1.8	No No No No No No
M93 - REC 1083 M94 - REC 1093 M96 - REC 1084 M97 - REC 1085 M98 - REC 1086 M99 - REC 1088 M100 - REC 1091 M101 - REC 1089 M102 - REC 1090	Residential Residential Residential Residential Residential Residential Residential Residential	B B B B B B B B B B B	67 67 67 67 67 67 67 67 67	1 2 1 1 2 2 2 1 1	56.4 53 51.8 51.2 49.9 50.2 59.9 54.7	No No No No No No No	54.4 52 50.9 50.3 49.1 49 58.1 53.5	2.0 1.0 0.9 0.9 0.8 1.2 1.8 1.2	No No No No No No No
M93 - REC 1083 M94 - REC 1093 M96 - REC 1084 M97 - REC 1085 M98 - REC 1086 M99 - REC 1088 M100 - REC 1091 M101 - REC 1089 M102 - REC 1090 M103 - REC 1096	Residential	B B B B B B B B B B B B	67 67 67 67 67 67 67 67 67 67	1 2 1 1 2 2 2 1 1 2 2 1 2 2 2 2 2 2 2 2	56.4 53 51.8 51.2 49.9 50.2 59.9 54.7 51.3	No No No No No No No	54.4 52 50.9 50.3 49.1 49 58.1 53.5 50.6	2.0 1.0 0.9 0.8 1.2 1.8 1.2 0.7	No
M93 - REC 1083 M94 - REC 1093 M96 - REC 1084 M97 - REC 1085 M98 - REC 1086 M99 - REC 1088 M100 - REC 1091 M101 - REC 1099 M102 - REC 1099 M103 - REC 1090 M103 - REC 1096 M105 - REC 1099	Residential Residential	B B B B B B B B B B B B B B	67 67 67 67 67 67 67 67 67 67 67 67	1 2 1 1 2 2 2 1 1 2 1 2 1 2 1	56.4 53 51.8 51.2 49.9 50.2 59.9 54.7 51.3 58.2	No No No No No No No No	54.4 52 50.9 50.3 49.1 49 58.1 53.5 50.6 57.8	2.0 1.0 0.9 0.8 1.2 1.8 1.2 0.7 0.4	No
M93 - REC 1083 M94 - REC 1093 M96 - REC 1084 M97 - REC 1085 M98 - REC 1086 M99 - REC 1088 M100 - REC 1091 M101 - REC 1089 M102 - REC 1090 M103 - REC 1090 M103 - REC 1090 M105 - REC 1099 M106 - REC 1100	Residential Residential	B B B B B B B B B B B B B B B B	67 67 67 67 67 67 67 67 67 67 67 67 67	1 2 1 1 2 2 2 1 1 2 1 2 1 2 1 1 1	56.4 53 51.8 51.2 49.9 50.2 59.9 54.7 51.3 58.2 53.5	No No No No No No No No No	54.4 52 50.9 50.3 49.1 49 58.1 53.5 50.6 57.8 53.4	2.0 1.0 0.9 0.8 1.2 1.8 1.2 0.7 0.4 0.1	No No
M93 - REC 1083 M94 - REC 1093 M96 - REC 1084 M97 - REC 1085 M98 - REC 1086 M99 - REC 1088 M100 - REC 1091 M101 - REC 1099 M102 - REC 1099 M103 - REC 1096 M103 - REC 1099	Residential Residential	B B B B B B B B B B B B B B	67 67 67 67 67 67 67 67 67 67 67 67	1 2 1 1 2 2 2 1 1 2 1 2 1 2 1	56.4 53 51.8 51.2 49.9 50.2 59.9 54.7 51.3 58.2	No No No No No No No No	54.4 52 50.9 50.3 49.1 49 58.1 53.5 50.6 57.8	2.0 1.0 0.9 0.8 1.2 1.8 1.2 0.7 0.4	No

RECEIVER ID	DESCRIPTION	CATEGORY	CRITERIA	RECEPTORS	FUTURE	IMPACT	FUTURE W/	NOISE BARRIER	BENEFITED
M112 - REC 1108	Residential	В	67	2	W/O BARRIER 51.5	No	51	0.5	RECEPTOR No
M112 - REC 1108 M113 - REC 1110	Residential	B	67	2	74	Yes	73.9	0.5	No
M114 - REC 1104	Residential	В	67	1	61	No	60.6	0.4	No
M115.1 - REC 1111	Residential	В	67	1	58.5	No	58.1	0.4	No
M115.2 - REC 1112	Residential	В	67	1	63.4	No	63	0.4	No
M116 - REC 1105	Residential	B	67	1	57.3	No	56.9	0.4	No
M117.1 - REC 1113	Residential	B	67	1	56.1	No	55.6	0.5	No
M117.2 - REC 1114	Residential	В	67	1	59.9	No	59.4	0.5	No
M119 - REC 1106	Residential	В	67	1	54.5	No	54.4	0.1	No
M120 - REC 1107	Residential	В	67	1	53.6	No	53.5	0.1	No
NB 12			•						
V3 - REC 1690	Residential	В	67	1	57.9	No	56.4	1.5	No
V4 - REC 1691	Residential	В	67	1	59.9	No	57.8	2.1	No
V6 - REC 1676	Residential	В	67	1	57	No	53.6	3.4	No
V7 - REC 1678	Residential	В	67	1	58.8	No	55.1	3.7	No
V8 - REC 1680	Residential	В	67	2	51.7	No	49.5	2.2	No
V9 - REC 1681	Residential	В	67	1	53.1	No	50.6	2.5	No
V10 - REC 1682	Residential	В	67	1	53.7	No	51	2.7	No
V11 - REC 1683	Residential	В	67	1	54.4	No	51.3	3.1	No
V12 - REC 1684	Residential	В	67	1	56	No	52.5	3.5	No
V13 - REC 1685	Residential	В	67	1	57.1	No	53.3	3.8	No
V14 - REC 1686	Residential	В	67	1	57.9	No	53.9	4.0	No
V15.1 - REC 1688	Residential	В	67	1	63.9	No	56.2	7.7	Yes
V15.2 - REC 1689	Residential	В	67	1	67.7	Yes	57.7	10.0	Yes
V17 - REC 1665 V18 - REC 1666	Residential	B	67	2	50.2	No	49.2	1.0	No
V18 - REC 1666 V20 - REC 1667	Residential Residential		67	1	52.7 56.6	No	52.3 56.5	0.4	No
		В	67			No	58.9	0.1	No
V22 - REC 1668 V23 - REC 1669	Residential Residential	B	67 67	1	59.9 50.1	No No	49.4	1.0 0.7	No No
V23 - REC 1669 V24 - REC 1670	Residential	В	67	1	50.1	No	49.4 50.7	0.7	No
V24 - REC 1670	Residential	В	67	1	53.1	No	51.5	1.6	No
V28 - REC 1655	Residential	В	67	3	51.3	No	51.3	0.0	No
V29 - REC 1656	Residential	B	67	1	54.5	No	54.5	0.0	No
V30 - REC 1657	Residential	В	67	1	57.5	No	57.5	0.0	No
V31 - REC 1660	Residential	В	67	3	49.1	No	48.5	0.6	No
NB 13		5	0,	5		110		0.0	110
N45 - REC 1218	Playground	С	67	1	58.6	No	55.3	3.3	No
N46 - REC 1214	Residential	В	67	1	54.5	No	52.5	2.0	No
N47 - REC 1215	Residential	В	67	1	53.5	No	51.4	2.1	No
N48.1 - REC 1216	Residential	В	67	1	63.8	No	57.7	6.1	Yes
N48.2 - REC 1217	Residential	В	67	1	69	Yes	58.8	10.2	Yes
N49.1 - REC 1219	Residential	В	67	1	57.3	No	54.7	2.6	No
N49.2 - REC 1220	Residential	В	67	1	60.2	No	56.5	3.7	No
N50 - REC 1212	Residential	В	67	1	56.9	No	54.6	2.3	No
N51 - REC 1213	Residential	В	67	1	55.7	No	53.3	2.4	No
N54 - REC 1222	Residential	В	67	1	61	No	57.5	3.5	No
N55 - REC 1223	Residential	В	67	1	58.9	No	56.2	2.7	No
NB 14									
T7 - REC 1530	Residential	В	67	1	59.8	No	58.3	1.5	No
T8 - REC 1536	Residential	В	67	1	62.1	No	59.1	3.0	No
T9 - REC 1531	Residential	В	67	1	62.8	No	59.4	3.4	No
T10 - REC 1532	Residential	В	67	1	65.3	No	61.6	3.7	No
T13 - REC 1533	Residential	В	67	1	62.2	No	58.9	3.3	No
T15 - REC 1527	Park Residential	С	67	1	59.9 62.1	No	56.4	3.5	No
T16 - REC 1525	Residential	B	67	1	62.1 62.2	No	57.8 57.5	4.3	No
T18 - REC 1524 T19 - REC 1523		В	67	1	62.2	No No	57.5	4.7	No Yes
T20 - REC 1523	Residential Residential	B	67 67	1	63.5 66.1	Yes	58.5 61.6	5.0 4.5	Yes No
T20 - REC 1522 T21 - REC 1519	Residential	B	67	1	59.8	No	56.8	4.5	No
	Residential	U	07	·	07.0	NU	00.0	3.0	INU
	Residential	В	67	1	56	No	55.2	0.8	No
NB 15 N107 - RFC 1283		B	67	1	53.1	No	52.1	1.0	No
N107 - REC 1283	Residential				52	No	51	1.0	No
N107 - REC 1283 N108 - REC 1284	Residential Residential		67	1					NU
N107 - REC 1283 N108 - REC 1284 N109 - REC 1285	Residential	В	67 67	1					No
N107 - REC 1283 N108 - REC 1284 N109 - REC 1285 N111 - REC 1289	Residential Residential	B	67	1	64.3	No	60.6	3.7	No
N107 - REC 1283 N108 - REC 1284 N109 - REC 1285 N111 - REC 1289 N112 - REC 1290	Residential Residential Residential	B B B	67 67	1	64.3 58.8	No No	60.6 57.7	3.7 1.1	No
N107 - REC 1283 N108 - REC 1284 N109 - REC 1285 N111 - REC 1289 N112 - REC 1290 N113 - REC 1291	Residential Residential Residential Residential	B B B B	67 67 67	1 1 1	64.3 58.8 57.4	No No No	60.6 57.7 56.5	3.7 1.1 0.9	No No
N107 - REC 1283 N108 - REC 1284 N109 - REC 1285 N111 - REC 1289 N112 - REC 1290 N113 - REC 1291 N114 - REC 1292	Residential Residential Residential Residential Residential	B B B B B B	67 67 67 67	1 1 1 1	64.3 58.8 57.4 54.2	No No No	60.6 57.7 56.5 53.5	3.7 1.1 0.9 0.7	No No No
N107 - REC 1283 N108 - REC 1284 N109 - REC 1285 N111 - REC 1289 N112 - REC 1290 N113 - REC 1291 N114 - REC 1292 N115.1 - REC 1297	Residential Residential Residential Residential Residential Residential	B B B B B B B	67 67 67 67 67 67	1 1 1 1 2	64.3 58.8 57.4 54.2 52.3	No No No No	60.6 57.7 56.5 53.5 51.7	3.7 1.1 0.9 0.7 0.6	No No No
N107 - REC 1283 N108 - REC 1284 N109 - REC 1285 N111 - REC 1289 N112 - REC 1290 N113 - REC 1291 N114 - REC 1292 N115.1 - REC 1297 N115.2 - REC 1298	Residential Residential Residential Residential Residential Residential Residential	B B B B B B B B	67 67 67 67 67 67 67	1 1 1 2 1	64.3 58.8 57.4 54.2 52.3 54.2	No No No No No	60.6 57.7 56.5 53.5 51.7 53.1	3.7 1.1 0.9 0.7 0.6 1.1	No No No No
N107 - REC 1283 N108 - REC 1284 N109 - REC 1285 N111 - REC 1289 N112 - REC 1290 N113 - REC 1291 N114 - REC 1292 N115.1 - REC 1297	Residential Residential Residential Residential Residential Residential	B B B B B B B	67 67 67 67 67 67	1 1 1 1 2	64.3 58.8 57.4 54.2 52.3	No No No No	60.6 57.7 56.5 53.5 51.7	3.7 1.1 0.9 0.7 0.6	No No No

RECEIVER ID	DESCRIPTION	CATEGORY	CRITERIA	RECEPTORS	FUTURE	IMPACT	FUTURE W/	NOISE BARRIER	BENEFITED
N119 - REC 1301	Residential	B	67	1	W/O BARRIER 65.9	No	BARRIER 61.9	REDUCTION 4.0	RECEPTOR No
N119 - REC 1301 N120 - REC 1302	Residential	В	67	1	64.3	No	61.9	3.3	No
N120 - REC 1302	Residential	В	67	1	61.9	No	59.3	2.6	No
N123 - REC 1304	Residential	B	67	1	55.7	No	54.8	0.9	No
N124 - REC 1305	Residential	B	67	1	53	No	52.3	0.7	No
N124 - REC 1306	Residential	B	67	1	68.8	Yes	62.6	6.2	Yes
N127 - REC 1307	Residential	B	67	1	68.9	Yes	63.1	5.8	Yes
N132 - REC 1308	Residential	B	67	1	53.5	No	53.1	0.4	No
N133 - REC 1313	Residential	В	67	1	53.1	No	52.9	0.2	No
N134 - REC 1315	Residential	В	67	1	52.5	No	52.1	0.4	No
N135 - REC 1316	Residential	В	67	2	54.1	No	53.8	0.3	No
NB 16 P1 - REC 1331	Residential	В	67	1	67.2	Yes	57.4	9.8	Yes
P2 - REC 1330	Residential	B	67	1	64.1	No	57.5	6.6	Yes
P3 - REC 1329	Residential	B	67	1	57.5	No	55.8	1.7	No
P4 - REC 1328	Residential	B	67	1	55.7	No	54.8	0.9	No
P5 - REC 1327	Residential	B	67	1	55	No	54.2	0.8	No
P6 - REC 1326	Residential	B	67	1	54.8	No	54	0.8	No
P7 - REC 1324	Residential	В	67	1	53.5	No	52.8	0.7	No
P9 - REC 1332	Residential	В	67	1	66.4	Yes	58.5	7.9	Yes
P10 - REC 1333	Residential	В	67	4	58.6	No	55.3	3.3	No
P11 - REC 1337	Residential	В	67	3	56	No	54.6	1.4	No
P13 - REC 1340	Residential	В	67	4	60.6	No	56.9	3.7	No
P14 - REC 1344	Residential	В	67	1	56.3	No	54.7	1.6	No
P18 - REC 1351	Residential	В	67	1	64	No	60.7	3.3	No
P20 - REC 1352	Residential	В	67	1	57.1	No	55.3	1.8	No
P22 - REC 1353	Residential	В	67	1	63.1	No	60.9	2.2	No
P23 - REC 1354	Residential	В	67	1	60.8	No	58.8	2.0	No
P24 - REC 1355	Residential	В	67	3	58.6	No	57	1.6	No
NB 17									
BB19 - REC 1957	Public or Nonprofit Institutional Structure	С	67	1	66.9	Yes	66.9	0.0	No
DD1 - REC 1958	Residential	В	67	2	65.8	No	62.4	3.4	No
DD2 - REC 1959	Residential	В	67	2	61.5	No	59	2.5	No
DD3 - REC 1960	Residential	В	67	2	59.4	No	56.1	3.3	No
DD4 - REC 1961	Residential	В	67	5	56	No	52.9	3.1	No
DD5 - REC 1965	Residential	В	67	6	50.3	No	47.4	2.9	No
DD6 - REC 1970	Residential	В	67	2	61.4	No	55.9	5.5	Yes
DD7 - REC 1971	Residential	В	67	2	57.6	No	51.8	5.8	Yes
DD8 - REC 1973	Residential	В	67	6	49.9	No	45.6	4.3	No
DD9 - REC 1967	Residential	В	67	2	63.4	No	58.5	4.9	No
DD10 - REC 1975	Residential	В	67	5	55.3	No	49.4	5.9	Yes
DD11.10 - REC 1984	Residential	В	67	2	72.5	Yes	70.2	2.3	No
DD11.11 - REC 1985	Residential	В	67	2	72.3	Yes	70.5	1.8	No
DD11.12 - REC 1986	Residential	В	67	2	72.3	Yes	71	1.3	No
DD11.13 - REC 1987	Residential	В	67	2	72.2	Yes	71.4	0.8	No
DD11.14 - REC 1988	Residential	В	67	2	72.1	Yes	71.6	0.5	No
DD11.2 - REC 1976	Residential	В	67	2	66.6	Yes	60.9	5.7	Yes
DD11.3 - REC 1977	Residential	В	67	2	70.3	Yes	61.4	8.9	Yes
DD11.4 - REC 1978 DD11.5 - REC 1979	Residential Residential	B	67 67	2	71.4	Yes Yes	61.8 62.8	9.6 9.8	Yes Yes
DD11.5 - REC 1979 DD11.6 - REC 1980	Residential	B		2	72.6		62.8	9.8	
DD11.6 - REC 1980 DD11.7 - REC 1981	Residential		67		72.8	Yes Yes	65.9		Yes Yes
DD11.7 - REC 1981 DD11.8 - REC 1982	Residential	B	67 67	2	72.9	Yes	65.9	7.0	Yes No
DD11.8 - REC 1982 DD11.9 - REC 1983	Residential	В	67	2	72.9	Yes	70	2.6	No
DD11.9 - REC 1983 DD12.10 - REC 2022	Residential	B	67	1	68.8	Yes	65.3	3.5	No
DD12.10 - REC 2022 DD12.11 - REC 2023	Residential	В	67	1	69.5	Yes	67.1	2.4	No
DD12.11 - REC 2023	Residential	B	67	1	71	Yes	69.1	1.9	No
DD12.12 - REC 2020	Residential	B	67	1	71.2	Yes	69.2	2.0	No
DD12.14 - REC 2019	Residential	B	67	1	71.1	Yes	69.4	1.7	No
DD12.2 - REC 2017	Residential	B	67	1	58.5	No	53	5.5	Yes
DD12.3 - REC 2021	Residential	B	67	1	61.6	No	53.1	8.5	Yes
DD12.4 - REC 2027	Residential	В	67	1	64	No	53.6	10.4	Yes
	Residential	В	67	1	64.6	No	54.7	9.9	Yes
DD12.5 - REC 2020			67	1	66.2	Yes	57.2	9.0	Yes
DD12.5 - REC 2020 DD12.6 - REC 2024	Residential	В				1			Yes
	Residential Residential	В	67	1	67.3	Yes	59.4	7.9	103
DD12.6 - REC 2024		В	67 67	1	67.3 68.2	Yes Yes	60.9		Yes
DD12.6 - REC 2024 DD12.7 - REC 2015 DD12.8 - REC 2025	Residential	BB			68.2	Yes		7.3	Yes
DD12.6 - REC 2024 DD12.7 - REC 2015 DD12.8 - REC 2025 DD12.9 - REC 2018	Residential Residential	B B B	67 67	1		Yes Yes	60.9 63	7.3 5.5	Yes Yes
DD12.6 - REC 2024 DD12.7 - REC 2015 DD12.8 - REC 2025	Residential Residential Residential	BB	67 67 67	1	68.2 68.5	Yes	60.9	7.3 5.5 4.7	Yes
DD12.6 - REC 2024 DD12.7 - REC 2015 DD12.8 - REC 2025 DD12.9 - REC 2018 DD13.10 - REC 2029	Residential Residential Residential Residential	B B B B	67 67	1 1 2	68.2 68.5 68	Yes Yes Yes	60.9 63 63.3	7.3 5.5	Yes Yes No

RECEIVER ID	DESCRIPTION	CATEGORY	CRITERIA	RECEPTORS	FUTURE	IMPACT	FUTURE W/	NOISE BARRIER	BENEFITED
DD13.14 - REC 2039	Residential	В	67	2	W/O BARRIER 70.6	Yes	68.7	REDUCTION 1.9	RECEPTOR No
DD13.2 - REC 2036	Residential	B	67	2	57	No	51.7	5.3	Yes
DD13.3 - REC 2028	Residential	В	67	2	59	No	51.9	7.1	Yes
DD13.4 - REC 2038	Residential	B	67	2	62.3	No	52.2	10.1	Yes
DD13.5 - REC 2031	Residential	В	67	2	63.3	No	53.3	10.0	Yes
DD13.6 - REC 2040	Residential	В	67	2	64.4	No	55.7	8.7	Yes
DD13.7 - REC 2032	Residential	В	67	2	66.3	Yes	58.2	8.1	Yes
DD13.8 - REC 2033	Residential	В	67	2	67	Yes	59.8	7.2	Yes
DD13.9 - REC 2030	Residential	В	67	2	67.6	Yes	61.2	6.4	Yes
DD14.10 - REC 2002	Residential	В	67	2	66.1	Yes	59.7	6.4	Yes
DD14.11 - REC 2008	Residential	В	67	2	67.5	Yes	61.8	5.7	Yes
DD14.12 - REC 2010	Residential	В	67	2	68.1	Yes	63.8	4.3	No
DD14.13 - REC 2011	Residential	В	67	2	68.5	Yes	64.9	3.6	No
DD14.14 - REC 2012	Residential	В	67	2	68.6	Yes	66.2	2.4	No
DD14.2 - REC 2014	Residential	В	67	2	54	No	48.8	5.2	Yes
DD14.3 - REC 2007	Residential	В	67	2	55	No	49.1	5.9	Yes
DD14.4 - REC 2006	Residential	В	67	2	58.5	No	49.3	9.2	Yes
DD14.5 - REC 2003	Residential	В	67	2	60.5	No	50.6	9.9	Yes
DD14.6 - REC 2013	Residential	В	67	2	61.4	No	52.8	8.6	Yes
DD14.7 - REC 2009	Residential	В	67	2	63	No	56	7.0	Yes
DD14.8 - REC 2005	Residential	В	67	2	63.8	No	57.1	6.7	Yes
DD14.9 - REC 2004	Residential	В	67	2	65.2	No	58.4	6.8	Yes
DD16.10 - REC 2049	Residential	В	67	1	69.3	Yes	65.6	3.7	No
DD16.11 - REC 2061	Residential	В	67	1	69.8	Yes	67.7	2.1	No
DD16.12 - REC 2066	Residential	В	67	1	71	Yes	69	2.0	No
DD16.13 - REC 2055	Residential	В	67	1	71.1	Yes	69.2	1.9	No
DD16.14 - REC 2072	Residential	В	67	1	71	Yes	69.3	1.7	No
DD16.2 - REC 2068	Residential	В	67	1	62.9	No	57.8	5.1	Yes
DD16.3 - REC 2043	Residential	В	67	1	64.8	No	58.5	6.3	Yes
DD16.4 - REC 2075	Residential	В	67	1	67.4	Yes	59.8	7.6	Yes
DD16.5 - REC 2050	Residential	В	67	1	68	Yes	59.9	8.1	Yes
DD16.6 - REC 2063	Residential	В	67	1	68.4	Yes	60.4	8.0	Yes
DD16.7 - REC 2077	Residential	B	67	1	69.2	Yes	61.2	8.0	Yes
DD16.8 - REC 2041	Residential	В	67	1	69.2	Yes	61.9	7.3	Yes
DD16.9 - REC 2047	Residential	В	67	1	69.1	Yes	63.3	5.8	Yes
DD17.10 - REC 2067	Residential	В	67	2	68.7	Yes	63.6	5.1	Yes
DD17.11 - REC 2060 DD17.12 - REC 2044	Residential Residential	B	67	2	69.2 69.7	Yes	65.8 67.6	3.4	No
DD17.12 - REC 2044 DD17.13 - REC 2069	Residential	B	67		70.5	Yes Yes	68.6	2.1	No
DD17.13 - REC 2009	Residential	B	67 67	2	70.5	Yes	68.7	1.9 2.0	No
DD17.14 - REC 2073	Residential	B	67	2	62.3	No	57.2	5.1	Yes
DD17.3 - REC 2002	Residential	В	67	2	63.6	No	57.9	5.7	Yes
DD17.4 - REC 2043	Residential	В	67	2	65.6	No	58.9	6.7	Yes
DD17.5 - REC 2056	Residential	B	67	2	67	Yes	59.5	7.5	Yes
DD17.6 - REC 2054	Residential	B	67	2	67.7	Yes	60	7.7	Yes
DD17.7 - REC 2046	Residential	B	67	2	67.9	Yes	60.3	7.6	Yes
DD17.8 - REC 2052	Residential	B	67	2	68.6	Yes	61.1	7.5	Yes
DD17.9 - REC 2064	Residential	В	67	2	68.6	Yes	61.8	6.8	Yes
DD18.10 - REC 2074	Residential	В	67	2	67.3	Yes	60.8	6.5	Yes
DD18.11 - REC 2070	Residential	B	67	2	67.8	Yes	62.4	5.4	Yes
DD18.12 - REC 2048	Residential	B	67	2	68.2	Yes	63.6	4.6	No
DD18.13 - REC 2057	Residential	В	67	2	68.6	Yes	65	3.6	No
DD18.14 - REC 2071	Residential	В	67	2	68.8	Yes	66.1	2.7	No
DD18.2 - REC 2058	Residential	В	67	2	60.9	No	55.7	5.2	Yes
DD18.3 - REC 2051	Residential	В	67	2	61.2	No	56.2	5.0	Yes
DD18.4 - REC 2079	Residential	В	67	2	62.8	No	57.1	5.7	Yes
DD18.5 - REC 2065	Residential	В	67	2	64.7	No	58.2	6.5	Yes
DD18.6 - REC 2042	Residential	В	67	2	66	Yes	58.9	7.1	Yes
DD18.7 - REC 2059	Residential	В	67	2	66.2	Yes	59	7.2	Yes
DD18.8 - REC 2076	Residential	В	67	2	66.3	Yes	59.2	7.1	Yes
DD18.9 - REC 2053	Residential	В	67	2	66.5	Yes	59.5	7.0	Yes
NB 18									
D33 - REC 191	School	С	67	1	55.7	No	53.4	2.3	No
D34 - REC 192	Playground	С	67	1	50.9	No	47.7	3.2	No
D35 - REC 196	Playground	С	67	1	53.6	No	50.9	2.7	No
D36 - REC 194	Active Sport Area	С	67	1	69.1	Yes	65	4.1	No
D37 - REC 195	Residential	В	67	1	50.9	No	48	2.9	No
D38 - REC 193	Picnic Table	С	67	1	59.2	No	56.4	2.8	No
D39 - REC 203	Residential	В	67	2	53	No	50.2	2.8	No
D40 - REC 202	Residential	В	67	3	54.8	No	52.2	2.6	No
D41 - REC 201	Residential	В	67	3	55.5	No	52.8	2.7	No
D42 - REC 200	Residential	В	67	3	57.7	No	54.9	2.8	No

RECEIVER ID	DESCRIPTION	CATEGORY	CRITERIA	RECEPTORS	FUTURE W/O BARRIER	IMPACT	FUTURE W/ BARRIER	NOISE BARRIER REDUCTION	BENEFITED RECEPTOR
D43 - REC 199	Residential	В	67	3	58.2	No	55.4	2.8	No
D44 - REC 198	Residential	В	67	3	62	No	59.2	2.8	No
D45 - REC 197	Residential	В	67	3	68.2	Yes	61.1	7.1	Yes
D46 - REC 208	Residential	В	67	4	38.5	No	35.6	2.9	No
D47 - REC 209	Residential	В	67	3	49.6	No	49.3	0.3	No
D48 - REC 206	Residential	В	67	2	51.9	No	51.8	0.1	No
D49 - REC 205	Residential	В	67	2	56.3	No	56.3	0.0	No
D50 - REC 207	Residential	В	67	3	69.9	Yes	68.3	1.6	No
D51 - REC 215	Residential	В	67	3	49.8	No	49.6	0.2	No
D52 - REC 217	Residential	В	67	2	53.3	No	53.2	0.1	No
D53 - REC 218	Residential	В	67	2	63.9	No	63.3	0.6	No
D54 - REC 216	Residential	В	67	3	71.3	Yes	70.2	1.1	No
D55 - REC 214	Residential	В	67	2	49	No	47.3	1.7	No
D56 - REC 213	Residential	В	67	0	49.5	No	48.2	1.3	No
D57 - REC 212	Residential	В	67	0	51.7	No	50.6	1.1	No
D58 - REC 211	Residential	В	67	2	51	No	50.3	0.7	No
D59 - REC 210	Residential	В	67	1	47.4	No	43.6	3.8	No
D60 - REC 220	Residential	В	67	3	55.2	No	48.6	6.6	Yes
D61 - REC 222 D62 - REC 221	Residential Residential	B	67	2	53.7 57.3	No	47.7 51.8	6.0	Yes Yes
D62 - REC 221 D63 - REC 219	Residential	В	67 67	3	73	No Yes	68.1	5.5 4.9	Yes
D63 - REC 219 D64 - REC 223	Residential	В	67	4	44	No	40.8	4.9	No
D65 - REC 225	Residential	В	67	3	59	No	40.8 50.1	8.9	Yes
D65 - REC 225	Residential	B	67	3	62.6	No	58	4.6	No
D67 - REC 226	Residential	B	67	2	55.7	No	48.6	7.1	Yes
D68 - REC 235	Residential	B	67	3	61.3	No	56.3	5.0	Yes
D69 - REC 232	Residential	B	67	2	43.6	No	40.7	2.9	No
D70 - REC 227	Residential	В	67	2	48.6	No	43.5	5.1	Yes
D71 - REC 234	Residential	В	67	3	61	No	55.3	5.7	Yes
D72 - REC 231	Residential	В	67	1	44.9	No	40.9	4.0	No
D73-1 - REC 230	Residential	В	67	2	46.1	No	41.6	4.5	No
D73-2 - REC 228	Residential	В	67	3	49.6	No	44.3	5.3	Yes
D74 - REC 229	Picnic Table	С	67	1	49.7	No	44	5.7	Yes
D75 - REC 233	Residential	В	67	1	61.7	No	53.6	8.1	Yes
D76 - REC 253	Residential	В	67	5	44.5	No	41.7	2.8	No
D77 - REC 241	Residential	В	67	2	45.8	No	43	2.8	No
D78 - REC 240	Residential	В	67	1	48.3	No	43.5	4.8	No
D79 - REC 239	Residential	В	67	1	49.6	No	44.5	5.1	Yes
D80 - REC 238	Residential	В	67	1	54.1	No	48.2	5.9	Yes
D81 - REC 237	Residential	В	67	1	70.8	Yes	57.8	13.0	Yes
D82 - REC 242	Residential	В	67	1	48.1	No	41.4	6.7	Yes
D83 - REC 244	Residential	В	67	2	46	No	41.2	4.8	No
D84 - REC 245	Residential	В	67	3	51.5	No	44	7.5	Yes
D85 - REC 246	Residential	В	67	2	51.5	No	44.9	6.6	Yes
D86 - REC 247	Residential	В	67	2	55.8	No	48.1	7.7	Yes
D87 - REC 248	Residential	В	67	3	63.3	No	54.9	8.4	Yes
D88 - REC 251 D89 - REC 252	Residential Residential	B	67 67	2	43.9	No No	40.4	3.5 1.4	No
D89 - REC 252 D90 - REC 256	Residential	В	67	3	42.4	No	41	3.7	No
D90 - REC 258	Residential				46.5		42.8		Yes
D91 - REC 258 D92 - REC 259	Residential	B	67 67	3	48.8	No No	42.6	6.2 9.0	Yes
D92 - REC 259 D93-1 - REC 260	Residential	В	67	2	50.9	No	44.1	6.8	Yes
D93-2 - REC 270	Residential	В	67	6	42.9	No	38.9	4.0	No
D93-2 - REC 270	Residential	B	67	2	58.6	No	48.8	9.8	Yes
D94-2 - REC 267	Residential	В	67	6	46.8	No	41.3	5.5	Yes
D95 - REC 266	Residential	B	67	3	51.4	No	44.4	7.0	Yes
D96 - REC 265	Residential	В	67	3	49.8	No	43.6	6.2	Yes
D97 - REC 264	Residential	В	67	3	50.9	No	44.5	6.4	Yes
D98 - REC 263	Residential	B	67	3	59.1	No	49.1	10.0	Yes
D99 - REC 262	Residential	В	67	3	55.8	No	48.3	7.5	Yes
D100 - REC 268	Residential	В	67	3	60.1	No	51.5	8.6	Yes
D101 - REC 277	Residential	В	67	12	49.5	No	45	4.5	No
D102 - REC 279	Residential	В	67	3	41.5	No	41.2	0.3	No
D103 - REC 275	Residential	В	67	3	53.1	No	48.4	4.7	No
D104 - REC 273	Residential	В	67	3	56.9	No	55.6	1.3	No
D105 - REC 272	Residential	В	67	3	57	No	53.2	3.8	No
D106 - REC 274	Residential	В	67	3	57.6	No	53.5	4.1	No
D107 - REC 278	Residential	В	67	3	65.4	No	58.3	7.1	Yes
	Picnic Table	С	67	1	57.2	No	52.2	5.0	Yes
D108 - REC 282									
D108 - REC 282 D109 - REC 330	Residential	В	67	1	58.1	No	51.6	6.5	Yes
	Residential Residential	B	67 67	1 3	58.1 48.9	No No	51.6 48.9	6.5 0.0	Yes No

RECEIVER ID	DESCRIPTION	CATEGORY	CRITERIA	RECEPTORS	FUTURE W/O BARRIER	IMPACT	FUTURE W/ BARRIER	NOISE BARRIER REDUCTION	BENEFITED RECEPTOR
D112 - REC 317	Residential	В	67	3	57.8	No	51.1	6.7	Yes
D113 - REC 318	Residential	В	67	3	63.8	No	62.9	0.9	No
D114 - REC 328	Residential	В	67	12	50.5	No	50.4	0.1	No
D115 - REC 323	Residential	В	67	3	47.8	No	46.5	1.3	No
D116 - REC 324	Residential	В	67	3	54.1	No	53.9	0.2	No
D117 - REC 321	Residential	В	67	3	53.7	No	53.5	0.2	No
D118 - REC 322	Residential	В	67	3	54.5	No	54.5	0.0	No
D119 - REC 320	Residential	В	67	1	58.4	No	58.4	0.0	No
D120 - REC 283	Residential	В	67	1	65.2	No	64.9	0.3	No
D121 - REC 325	Residential	В	67	1	40	No	39.1	0.9	No
NB 19			1-						
E1 - REC 452	School	C	67	1	64.8	No	64.8	0.0	No
E2 - REC 450	School	С	67	1	64.8	No	64.7	0.1	No
E3 - REC 451 E4.1 - REC 431	School	CB	67 67	1	44.5 53.9	No No	44.1 53.9	0.4	No
E4.2 - REC 431	Residential Residential	B	67	2	56.6	No	53.9	0.0	No
E4.3 - REC 433	Residential	В	67	2	60.1	No	60.1	0.0	No
E5.1 - REC 434	Residential	B	67	2	49.1	No	49.1	0.0	No
E5.2 - REC 435	Residential	B	67	2	51.7	No	51.7	0.0	No
E5.3 - REC 436	Residential	B	67	2	54.5	No	54.5	0.0	No
E6.1 - REC 437	Residential	B	67	2	44.8	No	44.8	0.0	No
E6.2 - REC 438	Residential	B	67	2	47.1	No	47.1	0.0	No
E6.3 - REC 439	Residential	B	67	2	48.7	No	48.7	0.0	No
E7.1 - REC 428	Residential	B	67	2	66.2	Yes	66	0.2	No
E7.2 - REC 429	Residential	В	67	2	71	Yes	70.8	0.2	No
E7.3 - REC 430	Residential	В	67	2	73.2	Yes	73.1	0.1	No
E10.1 - REC 425	Residential	В	67	2	67.9	Yes	67.7	0.2	No
E10.2 - REC 426	Residential	В	67	2	70.9	Yes	70.6	0.3	No
E10.3 - REC 427	Residential	В	67	2	73.1	Yes	72.8	0.3	No
E12.1 - REC 422	Residential	В	67	2	64.3	No	61.6	2.7	No
E12.2 - REC 423	Residential	В	67	2	66.3	Yes	63.9	2.4	No
E12.3 - REC 424	Residential	В	67	2	68.1	Yes	65.7	2.4	No
E13.1 - REC 419	Residential	В	67	2	55.9	No	54.4	1.5	No
E13.2 - REC 420	Residential	В	67	2	58.7	No	57.3	1.4	No
E13.3 - REC 421	Residential	В	67	2	60.2	No	58.4	1.8	No
E14 - REC 449	Office	E	72	1	52.4	No	50.2	2.2	No
E15 - REC 418	Place of Worship	С	67	1	55	No	53.1	1.9	No
E16 - REC 413	Residential	В	67	8	53.5	No	50.3	3.2	No
E17 - REC 408	Residential	В	67	8	48.2	No	44.9	3.3	No
E18 - REC 403	Residential	В	67	6	51.4	No	48	3.4	No
E19 - REC 402	Residential	В	67	2	53	No	51	2.0	No
E20 - REC 401	Residential	B	67	2	49.8	No	48.2	1.6	No
E21 - REC 397 E22 - REC 398	Residential	B	67	2	46.6 48.1	No	44.2 45.4	2.4	No
E22 - REC 398 E23 - REC 399	Residential Residential	B	67 67	2	51	No No	45.4	2.7 3.4	No
E23 - REC 399 E24 - REC 400	Residential	B	67	2	49.5	No	46.8	2.7	No
E25 - REC 395	Residential	B	67	2	65.7	No	62.9	2.8	No
E26 - REC 396	Residential	B	67	2	60.4	No	57.7	2.7	No
E27 - REC 414	Playground	D	01	L	00.4			2.1	
		C	67	1	50.1			3.0	
E28 - REC 394	55	CB	67	1	50.1 47.3	No	46.2	3.9 3.8	No
E28 - REC 394 E29 - REC 391	Residential Residential	C B B	67 67 67	1 5 2	50.1 47.3 45.1			3.9 3.8 3.5	
	Residential	В	67	5	47.3	No No	46.2 43.5	3.8	No No
E29 - REC 391	Residential Residential	BB	67 67	5 2	47.3 45.1	No No No	46.2 43.5 41.6	3.8 3.5	No No No
E29 - REC 391 E30 - REC 387	Residential Residential Residential	B B B	67 67 67	5 2 2	47.3 45.1 65.9	No No No	46.2 43.5 41.6 62.3	3.8 3.5 3.6	No No No
E29 - REC 391 E30 - REC 387 E31 - REC 385	Residential Residential Residential Residential	B B B B	67 67 67 67	5 2 2 2 2	47.3 45.1 65.9 57.8	No No No No	46.2 43.5 41.6 62.3 54.2	3.8 3.5 3.6 3.6	No No No No No
E29 - REC 391 E30 - REC 387 E31 - REC 385 E32 - REC 386	Residential Residential Residential Residential Residential	B B B B B B	67 67 67 67 67 67	5 2 2 2 2 2 2	47.3 45.1 65.9 57.8 61	No No No No No	46.2 43.5 41.6 62.3 54.2 58	3.8 3.5 3.6 3.6 3.0	No No No No No
E29 - REC 391 E30 - REC 387 E31 - REC 385 E32 - REC 386 E33 - REC 389	Residential Residential Residential Residential Residential Residential	B B B B B B B	67 67 67 67 67 67 67	5 2 2 2 2 2 4	47.3 45.1 65.9 57.8 61 46.5	No No No No No No	46.2 43.5 41.6 62.3 54.2 58 42.8	3.8 3.5 3.6 3.6 3.0 3.7	No No No No No No
E29 - REC 391 E30 - REC 387 E31 - REC 385 E32 - REC 386 E33 - REC 389 E34 - REC 384	Residential Residential Residential Residential Residential Residential Residential	B B B B B B B	67 67 67 67 67 67 67	5 2 2 2 2 2 4 2 2	47.3 45.1 65.9 57.8 61 46.5 42.3	No No No No No No No	46.2 43.5 41.6 62.3 54.2 58 42.8 40	3.8 3.5 3.6 3.0 3.7 2.3	No No No No No No No
E29 - REC 391 E30 - REC 387 E31 - REC 385 E32 - REC 386 E33 - REC 389 E34 - REC 384 E35 - REC 383	Residential Residential Residential Residential Residential Residential Residential Residential	B B B B B B B B B	67 67 67 67 67 67 67 67	5 2 2 2 2 2 4 2 2 2 2 2	47.3 45.1 65.9 57.8 61 46.5 42.3 40.8	No No No No No No No	46.2 43.5 41.6 62.3 54.2 58 42.8 40 38.5	3.8 3.5 3.6 3.0 3.7 2.3 2.3	No No No No No No No No
E29 - REC 391 E30 - REC 387 E31 - REC 385 E32 - REC 386 E33 - REC 389 E34 - REC 384 E35 - REC 388 E37 - REC 377 E38 - REC 378	Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential	B B B B B B B B B B B B B B B	67 67 67 67 67 67 67 67 67 67 67 67	5 2 2 2 2 4 2 2 2 3 3 1 2	47.3 45.1 65.9 57.8 61 46.5 42.3 40.8 46.1 66.4 62	No No No No No No No Yes No	46.2 43.5 41.6 62.3 54.2 58 42.8 40 38.5 43.7 64.2 60.3	3.8 3.5 3.6 3.0 3.7 2.3 2.3 2.4 2.2 1.7	No
E29 - REC 391 E30 - REC 387 E31 - REC 385 E32 - REC 386 E33 - REC 389 E34 - REC 384 E35 - REC 383 E36 - REC 388 E37 - REC 377 E38 - REC 378 E39 - REC 379	Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential	B B B B B B B B B B B B B B B B B B B	67 67 67 67 67 67 67 67 67 67 67 67 67	5 2 2 2 2 4 2 2 3 3 1 2 2 3 1 2 2 2	47.3 45.1 65.9 57.8 61 46.5 42.3 40.8 46.1 66.4 62 58.4	No	46.2 43.5 41.6 62.3 54.2 58 42.8 40 38.5 43.7 64.2 60.3 56.1	3.8 3.5 3.6 3.0 3.7 2.3 2.3 2.4 2.2 1.7 2.3	No
E29 - REC 391 E30 - REC 387 E31 - REC 385 E32 - REC 386 E33 - REC 389 E34 - REC 384 E35 - REC 383 E36 - REC 388 E37 - REC 377 E38 - REC 377 E39 - REC 379 E40 - REC 380	Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential	B B B B B B B B B B B B B B B B B B B	67 67 67 67 67 67 67 67 67 67 67 67 67 6	5 2 2 2 2 4 2 2 3 3 1 2 2 3 1 2 2 2 2	47.3 45.1 65.9 57.8 61 46.5 42.3 40.8 46.1 66.4 62 58.4 55	No	46.2 43.5 41.6 62.3 54.2 58 42.8 40 38.5 43.7 64.2 60.3 56.1 51.9	3.8 3.5 3.6 3.0 3.7 2.3 2.3 2.3 2.4 2.2 1.7 2.3 3.1	No
E29 - REC 391 E30 - REC 387 E31 - REC 385 E32 - REC 386 E33 - REC 389 E34 - REC 384 E35 - REC 383 E36 - REC 388 E37 - REC 377 E38 - REC 377 E38 - REC 379 E40 - REC 380 E41 - REC 415	Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential	B B B B B B B B B B B B B B C	67 67 67 67 67 67 67 67 67 67 67 67 67 6	5 2 2 2 2 4 2 2 3 1 2 3 1 2 2 2 2 2 1	47.3 45.1 65.9 57.8 61 46.5 42.3 40.8 46.1 66.4 62 58.4 55 49.9	No	46.2 43.5 41.6 62.3 54.2 58 42.8 40 38.5 43.7 64.2 60.3 56.1 51.9 46	3.8 3.5 3.6 3.0 3.7 2.3 2.3 2.4 2.2 1.7 2.3 3.1 3.9	No
E29 - REC 391 E30 - REC 387 E31 - REC 385 E32 - REC 386 E33 - REC 389 E34 - REC 384 E35 - REC 383 E36 - REC 388 E37 - REC 377 E38 - REC 378 E39 - REC 379 E40 - REC 380 E41 - REC 415 E42 - REC 376	Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential	B B B B B B B B B B B B B B B C C B	67 67 67 67 67 67 67 67 67 67 67 67 67 6	5 2 2 2 2 4 4 2 2 3 1 2 2 2 2 2 2 2 1 2 2	47.3 45.1 65.9 57.8 61 46.5 42.3 40.8 46.1 66.4 66.4 66.4 58.4 55 55 49.9 51.2	No	46.2 43.5 41.6 62.3 54.2 58 42.8 40 38.5 43.7 64.2 60.3 56.1 51.9 46 48.3	3.8 3.5 3.6 3.6 3.0 3.7 2.3 2.3 2.3 2.4 2.2 1.7 2.3 3.1 3.9 2.9	No
E29 - REC 391 E30 - REC 387 E31 - REC 385 E32 - REC 386 E33 - REC 389 E34 - REC 384 E35 - REC 383 E36 - REC 388 E37 - REC 377 E38 - REC 377 E38 - REC 379 E40 - REC 380 E41 - REC 415 E42 - REC 376 E43 - REC 381	Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential	B B B B B B B B B B B B B B C B B B	67 67 67 67 67 67 67 67 67 67 67 67 67 6	5 2 2 2 2 4 4 2 2 3 1 2 2 2 2 2 2 2 2 1 2 5	47.3 45.1 65.9 57.8 61 46.5 42.3 40.8 46.1 66.4 62 58.4 55 55 49.9 51.2 49.4	No	46.2 43.5 41.6 62.3 54.2 58 42.8 40 38.5 43.7 64.2 60.3 56.1 51.9 46 48.3 45.6	3.8 3.5 3.6 3.6 3.0 3.7 2.3 2.3 2.3 2.4 2.2 1.7 2.3 3.1 3.9 2.9 3.8	No
E29 - REC 391 E30 - REC 387 E31 - REC 385 E32 - REC 386 E33 - REC 389 E34 - REC 384 E35 - REC 384 E36 - REC 388 E37 - REC 377 E38 - REC 377 E38 - REC 378 E39 - REC 379 E40 - REC 380 E41 - REC 415 E42 - REC 376 E43 - REC 381 E44 - REC 417	Residential Residential	B B B B B B B B B B B B B B C B B B B B B B B B B B B	67 67 67 67 67 67 67 67 67 67 67 67 67 6	5 2 2 2 2 4 2 2 3 1 2 2 2 2 2 2 2 1 2 2 1 2 5 1	47.3 45.1 65.9 57.8 61 46.5 42.3 40.8 46.1 66.4 62 58.4 55 55 49.9 51.2 49.4 47.5	No	46.2 43.5 41.6 62.3 54.2 58 42.8 40 38.5 43.7 64.2 60.3 56.1 51.9 46 48.3 45.6 44.8	3.8 3.5 3.6 3.6 3.0 3.7 2.3 2.3 2.4 2.2 1.7 2.3 3.1 3.9 2.9 3.8 2.7	No
E29 - REC 391 E30 - REC 387 E31 - REC 385 E32 - REC 386 E33 - REC 389 E34 - REC 384 E35 - REC 383 E36 - REC 388 E37 - REC 377 E38 - REC 377 E39 - REC 378 E40 - REC 380 E41 - REC 415 E42 - REC 381 E44 - REC 417 E45 - REC 365	Residential Residential	B B B B B B B B B B B B B B C B B B B B B B B B B B B B B B	67 67 67 67 67 67 67 67 67 67 67 67 67 6	5 2 2 2 2 4 2 2 3 1 2 2 2 2 2 2 1 2 2 1 2 2 5 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 2 2	47.3 45.1 65.9 57.8 61 46.5 42.3 40.8 46.1 66.4 62 58.4 55 55 49.9 51.2 49.4 47.5 66	No No	46.2 43.5 41.6 62.3 54.2 58 42.8 40 38.5 43.7 64.2 60.3 56.1 51.9 46 48.3 45.6 44.8 63	3.8 3.5 3.6 3.6 3.0 3.7 2.3 2.3 2.4 2.2 1.7 2.3 3.1 3.9 2.9 3.8 2.7 3.0	No
E29 - REC 391 E30 - REC 387 E31 - REC 385 E32 - REC 386 E33 - REC 389 E34 - REC 384 E35 - REC 383 E36 - REC 388 E37 - REC 377 E38 - REC 378 E39 - REC 378 E40 - REC 380 E41 - REC 415 E42 - REC 376 E43 - REC 381 E44 - REC 417 E45 - REC 365 E46 - REC 366	Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Picnic Area Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential	B B B B B B B B B B C B	67 67 67 67 67 67 67 67 67 67 67 67 67 6	5 2 2 2 2 4 2 2 3 3 1 2 2 2 2 1 2 2 1 2 2 1 2 5 5 1 2 2 2 2	47.3 45.1 65.9 57.8 61 46.5 42.3 40.8 46.1 66.4 62 58.4 55 55 49.9 51.2 49.4 47.5 66 63	No	46.2 43.5 41.6 62.3 54.2 58 42.8 40 38.5 43.7 64.2 60.3 56.1 51.9 46 48.3 45.6 44.8 63 60.2	3.8 3.5 3.6 3.0 3.7 2.3 2.3 2.3 2.4 2.2 1.7 2.3 3.1 3.9 2.9 3.8 2.7 3.0 2.8	No
E29 - REC 391 E30 - REC 387 E31 - REC 385 E32 - REC 386 E33 - REC 389 E34 - REC 384 E35 - REC 383 E36 - REC 388 E37 - REC 377 E38 - REC 378 E39 - REC 379 E40 - REC 380 E41 - REC 415 E42 - REC 376 E43 - REC 381 E44 - REC 417 E45 - REC 365 E46 - REC 366 E47 - REC 367	Residential Residential	B B	67 67	5 2 2 2 2 4 2 2 3 3 1 2 2 2 2 2 2 2 2 1 2 2 5 1 2 5 1 2 2 2 2	47.3 45.1 65.9 57.8 61 46.5 42.3 40.8 46.1 66.4 62 58.4 55 49.9 51.2 49.4 47.5 66 63 59.1	No	46.2 43.5 41.6 62.3 54.2 58 42.8 40 38.5 43.7 64.2 60.3 56.1 51.9 46 48.3 45.6 44.8 63 60.2 56.4	3.8 3.5 3.6 3.0 3.7 2.3 2.3 2.4 2.2 1.7 2.3 3.1 3.9 2.9 3.8 2.7 3.0 2.8 2.7	No No
E29 - REC 391 E30 - REC 387 E31 - REC 385 E32 - REC 386 E33 - REC 389 E34 - REC 384 E35 - REC 383 E36 - REC 388 E37 - REC 377 E38 - REC 378 E39 - REC 378 E40 - REC 380 E41 - REC 415 E42 - REC 376 E43 - REC 381 E44 - REC 417 E45 - REC 365 E46 - REC 366	Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Picnic Area Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential Residential	B B B B B B B B B B C B	67 67 67 67 67 67 67 67 67 67 67 67 67 6	5 2 2 2 2 4 2 2 3 3 1 2 2 2 2 1 2 2 1 2 2 1 2 5 5 1 2 2 2 2	47.3 45.1 65.9 57.8 61 46.5 42.3 40.8 46.1 66.4 62 58.4 55 55 49.9 51.2 49.4 47.5 66 63	No	46.2 43.5 41.6 62.3 54.2 58 42.8 40 38.5 43.7 64.2 60.3 56.1 51.9 46 48.3 45.6 44.8 63 60.2	3.8 3.5 3.6 3.0 3.7 2.3 2.3 2.3 2.4 2.2 1.7 2.3 3.1 3.9 2.9 3.8 2.7 3.0 2.8	No

RECEIVER ID	DESCRIPTION	CATEGORY	CRITERIA	RECEPTORS	FUTURE W/O BARRIER	IMPACT	FUTURE W/ BARRIER	NOISE BARRIER REDUCTION	BENEFITED RECEPTOR
E51.1 - REC 370	Residential	В	67	2	42.4	No	40.5	1.9	No
E51.2 - REC 371	Residential	В	67	2	45.1	No	43.2	1.9	No
E52.1 - REC 372	Residential	В	67	2	43.1	No	40.9	2.2	No
E52.2 - REC 373	Residential	В	67	2	45	No	42.9	2.1	No
E53 - REC 374	Residential	В	67	2	44.3	No	42.2	2.1	No
E54 - REC 416	Park	С	67	1	49.3	No	46.8	2.5	No
E55 - REC 363	Residential	В	67	1	66.6	Yes	65.6	1.0	No
E56 - REC 364	Residential	В	67	1	65	No	63.9	1.1	No
E57 - REC 362	Residential	В	67	1	63.4	No	62.3	1.1	No
E58 - REC 357	Residential	В	67	1	64.3	No	62.8	1.5	No
E59 - REC 358	Residential	B	67	1	67.8	Yes	66	1.8	No
E60 - REC 356	Residential	B	67	2	58.8	No	57.2	1.6	No
E61 - REC 359	Residential	B	67	4	57.3	No	55.6	1.7	No
E63 - REC 355	Residential	B	67	1	65.1	No	63.6	1.5	No
E64 - REC 351	Residential	B	67	2	63.4	No	62.2	1.3	No
E65 - REC 352	Residential	B	67	2	60.6	No	58.9	1.2	No
E66.1 - REC 353	Residential	B	67	1	57.6	No	55.8	1.7	No
				2		-		1.8	No
E66.2 - REC 354	Residential	В	67		59.8	No	58.3		
E67 - REC 360	Residential	B	67	12	54.2	No	52.4	1.8	No
E68 - REC 349	Residential	B	67	1	50.9	No	49	1.9	No
E69 - REC 350	Residential	В	67	1	56.1	No	54.3	1.8	No
E70 - REC 343	Residential	В	67	1	66.5	Yes	64.2	2.3	No
E71 - REC 344	Residential	В	67	1	61.1	No	59.8	1.3	No
E72 - REC 345	Residential	В	67	1	59.9	No	58.3	1.6	No
E73 - REC 342	Residential	В	67	2	57.3	No	55.5	1.8	No
E74 - REC 346	Residential	В	67	2	56	No	54.2	1.8	No
E75 - REC 341	Residential	В	67	1	57.2	No	55.5	1.7	No
E76 - REC 339	Park	С	67	1	69.5	Yes	68.6	0.9	No
E77 - REC 340	Residential	В	67	1	56.8	No	55.1	1.7	No
E78 - REC 338	Picnic Table	С	67	1	50.7	No	48.9	1.8	No
E79 - REC 348	Restaurant	E	72	1	50.9	No	49.3	1.6	No
E80.1 - REC 336	Residential	В	67	1	54.1	No	52.1	2.0	No
E80.2 - REC 337	Residential	В	67	1	56.7	No	55.3	1.4	No
E81 - REC 335	School	С	67	1	64.1	No	63.3	0.8	No
E82 - REC 347	Residential	В	67	2	51.4	No	48.7	2.7	No
E83 - REC 334	Playground	С	67	1	60.7	No	57.2	3.5	No
E84 - REC 333	Playground	С	67	1	59.9	No	56.2	3.7	No
E85 - REC 332	School (No Exterior Use)	D	52	1	46.6	No	42.6	4.0	No
E86 - REC 331	School (No Exterior Use)	D	52	1	47.5	No	44.4	3.1	No
NB 20									
G117 - REC 664	Residential	В	67	7	50.3	No	50.2	0.1	No
G118 - REC 668	Residential	В	67	2	66.4	Yes	62.3	4.1	No
G119 - REC 667	Residential	В	67	3	59	No	57.3	1.7	No
G120 - REC 669	Residential	В	67	2	63	No	59.7	3.3	No
G121 - REC 665	Residential	B	67	7	54	No	53.6	0.4	No
G122 - REC 666	Residential	B	67	3	52.4	No	52.3	0.1	No
G122 - REC 674	Residential	B	67	2	54.2	No	54.2	0.0	No
G127.2 - REC 675	Residential	B	67	3	70.6	Yes	69.8	0.8	No
G127.3 - REC 676	Residential	B	67	3	70.0	Yes	70.3	0.4	No
G127.4 - REC 677	Residential	B	67	3	70.7	Yes	70.5	0.4	No
G127.5 - REC 678	Residential	B	67	3	70.7	Yes	70.5	0.2	No
G127.5 - REC 678	Residential				70.8		70.6		
		B	67	3		Yes	70.7	0.0	No
G127.7 - REC 680	Residential	B	67	3	70.8	Yes		0.1	No
G127.8 - REC 681	Residential	В	67	3	70.7	Yes	70.6	0.1	No
G128.1 - REC 682	Residential	В	67	5	70.6	Yes	69.1	1.5	No
G128.2 - REC 683	Residential	В	67	5	70.8	Yes	69.9	0.9	No
G128.3 - REC 684	Residential	В	67	5	70.9	Yes	70.5	0.4	No
G128.4 - REC 685	Residential	В	67	5	70.9	Yes	70.7	0.2	No
G128.5 - REC 686	Residential	В	67	5	70.9	Yes	70.7	0.2	No
G128.6 - REC 687	Residential	В	67	5	70.9	Yes	70.8	0.1	No
G128.7 - REC 688	Residential	В	67	5	70.9	Yes	70.8	0.1	No
G128.8 - REC 689	Residential	В	67	5	70.8	Yes	70.8	0.0	No
				1	57.9	No	57.4	0.5	