NOISE FEASIBILITY STUDY
EVENT VENUE FACILITY
808108 24TH SIDE ROAD
TOWN OF BLUE MOUNTAIN

FOR

SPY CIDER HOUSE AND DISTILLERY

BY

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1.0 INTRODUCTION

At the request of the Spy Cider House and Distillery, J.E. COULTER ASSOCIATES LIMITED has reviewed the proposed event venue facility at 808108 24th Side Road in the Town of Blue Mountain with regard to the potential for noise impact on the nearby residences (see Appendix A, Figure 1). This includes music (live and/or pre-recorded), crowds, and parking. The purpose of this report is to outline the feasibility of the proposed use in terms of satisfying the Ministry of the Environment, Conservation and Parks (MECP) noise criteria.

2.0 SITE DESCRIPTION

The Spy Cider House and Distillery site includes an existing single commercial building that operates as a distillery and retail business (see Appendix A, Figure 2). Spy Cidery currently offer services that includes corporate events and weddings. It is noted that the proponent has indicated that the current outdoor events that take place are between 12 p.m. and 6 p.m. There are no simultaneous events etc. with the proposed event venue building. The existing venue is remaining and that concurrent events may require additional noise control measures. This report will focus on the proposed event venue building only.

The proposed event venue building is to be located approximately 60m west of the existing building and approximately 95m south from 24th Side Road (see Appendix A, Figures 3 to 8 for concept plans and elevation). The event venue is proposed to hold events such as weddings and similar types of gatherings that would include amplified sound in the new building. The capacity of the new venue is 165 patrons with 50 parking spaces.

Three potential noise sensitive receptors and approximate setback from the event venue building were identified:

R1: 808065 20th Side Road (350m), southwest.

R2: 808116 20th Side Road (240m), east

R3: 808054 20th Side Road (250m), northwest

To the northwest and southwest are two residential properties (R1 and R3, single-family dwellings). There is an existing dense wooded area (a minimum of 50m deep) between the venue and Receptor R1 to the southwest. To the east is a single-family dwelling (R2).

These are the closest noise-sensitive receptors to the proposed facility being considered for potential noise impact.

3.0 NOISE CRITERIA

The MECP publishes *NPC-300* (Environmental Noise Guideline) for consideration of implementation by local municipalities. This site is located in an area that is classified as Class 3 by MECP (*NPC-300* shown below as Tables 1 and 2) for the purposes of the noise analysis. Class 3 means an area with an acoustical environment that is:

1. a rural area with an acoustical environment that is dominated by natural sounds, having little or no road traffic, such as:
    a) a small community
    b) an agricultural area
    c) a rural recreational area such as a cottage or a resort area, or
    d) a wilderness area.

The MECP's noise exclusion sound level criteria for outdoor living areas as follows:

Table 1: Exclusion Limit Values of One-Hour Equivalent Sound Level (L_{eq}, dBA) Outdoor Points of Reception

Time of Day	Class 1 Area	Class 2 Area	Class 3 Area	Class 4 Area
07:00–19:00	50	50	**45**	55
19:00–23:00	55	45	**40**	55

The MECP's noise criteria for the sound level in the plane of an open window are as follows:

Table 2: Exclusion Limit Values of One-Hour Equivalent Sound Level (L_{eq}, dBA) Plane of Window of Noise-Sensitive Spaces

Time of Day	Class 1 Area	Class 2 Area	Class 3 Area	Class 4 Area
07:00–19:00	50	50	**45**	60
19:00–23:00	50	50	**40**	60
23:00–07:00	45	45	**40**	55

As noted above, the minimum sound level limit at the point of reception for outdoor amenity spaces (within 30m of the dwelling closes to the sound source) and the building façade is 45 dB L_{eq} (1 hour) between 0700 and 1900 hours. The criterion at the building façade between 1900 and 0700 hours and at the outdoor amenity areas between 1900 and 2300 hours is 40 dB L_{eq} (1 hour).

For this proposed facility, MECP minimum exclusion limits noted above apply, as the traffic on 20th Side Road is not sufficient to generate sound levels greater than the MECP's minimum exclusion limits at the points of reception being considered.

4.0 NOISE IMPACT ANALYSIS

Applying MECP's *NPC-300* guideline to the site, the sound levels were calculated using a 3D model (CadnaA 2024 MR1 based on the ISO 9613-2 guideline) that included the topography from proposed building envelope, shielding by other structures, and proposed source strengths of the music, people, and cars (see Appendix A, Figure 4). For the initial analysis, the modelling included the existing corrugated steel panels for the walls and roof area, ceiling and rooftop ventilation louvres, and double swing doors. This report will also review patrons talking outside of the venue in the open area and the potential noise impact on the adjacent residences. It was assumed the overall sound of all loudspeakers within the facility would generate 89 dBA with a heavy bass component from the music at the interior wall and roof surfaces of the space. This is typical for loud music at a wedding. Detailed calculations are provided in Appendix B.

The source spectrum for music and talking are provided below.

Table 3: Sound Source Data (Sound Power Levels)

Name	Type	Octave Spectrum (dB)										
		31.5	63	125	250	500	1000	2000	4000	8000	A	Lin
Music w/heavy bass including tonality	Lp(c)	115	110	103	103	102	100	95	90	85	104	117
Female Loud[1]	Lw(c)	--	--	28	63	67	69	65	61	53	77	78
Male Loud[1]	Lw(c)	--	--	58	68	76	73	67	63	54	83	84

[1] Reference sound data for voices are based on a 1m distance. Source: Pearson, 1977 (see Appendix C, Reference 4).

Various receptors were considered in the analysis (see Appendix A, Figure 9):

R1: Grade level, 30m from the east façade of the dwelling. Receptor is 1.5m high.

R2: Grade level, 30m from the west façade of the dwelling. Receptor is 1.5m high.

R3: Grade level, 30m from the southeast corner of dwelling. Receptor is 1.5m high.

The modelling included third-order reflections, ground absorption of 1.0 (soft ground). For the open door scenario, no directivity was assigned to the source except for any barrier effect provided by the building façade. At this time, there are no details regarding the final construction materials to be used. As a starting point, the exterior wall, roof construction, windows and doors were assumed to be as follows:

Walls: Metal siding, wood studs, batt insulation and 1 layer of drywall (STC Rating - 43)

Roofing: Metal siding, framing, batt insulation and 1 layer of drywall (STC Rating - 40)

Doors: Double doors fully weather-stripped (STC Rating - 20)

Windows: 6mm double glazed windows with a 13mm air space between the panes (STC Rating - 31).

Based on the above assumptions, the results of the analysis are as follows:

4.1 Event Venue Building

The venue building is expected to incorporate an in-house sound system for live and pre-recorded music for its events. The walls, roofing, windows and doors when all closed are expected to meet MECP's noise criteria during the day and nighttime periods. The doors and windows can open only when there is no amplified or pre-recorded music occurring. The use of a microphone when someone is speaking (no music) with windows open would likely be acceptable.

If the venue building is operated such that the most windows and doors are open, higher sound levels will result, exceeding MECP's noise criteria. The event venue is to be centrally air-conditioned so that the windows and doors remain closed.

4.2 Parking Area

It is assumed that music is not playing at the maximum levels prior to guests arriving or guests exiting the site. The model assumed a moving point source 1m above the ground moving 15 kph. The analysis assumed sound levels generated from 50 vehicles entering the site within a one-hour period. The sound levels generated by vehicular movements are acoustically minor relative to the generation of music and noise control measures are not required for the parking area.

4.3 Outdoor Activities (Patrons Talking)

Consideration was also given to the potential noise from a large group of people standing and talking outside the event venue building. The reference data for the talking is based on studies by Pearson (see Appendix C, Reference 4). The analysis used half of the maximum capacity (165) of the event venue (83 people, split evenly between males and females) talking with a "raised" voice continuously for a period of one hour on the covered porch (north and west side of the building). This would be considered a worst-case scenario.

4.4 Sound Level Summary

The sound levels generated by each source are provided below for the day/evening and nighttime.

The following tables summarize the calculated projected sound levels during the daytime, evening and nighttime for the event venue building, the criteria and, as applicable, confirmation that the sound levels meet the noise criteria. Given that the music typically will have low frequency bass (i.e., "thumping", the sound levels have been adjusted by +5 dB to account for the sound characteristics of the music.

Table 4: Points-of-Reception Noise Impact Table Daytime (0700–1900 Hours)			
Source ID	**POR1**	**POR2**	**POR3**
Building noise (combination of sound penetrations through all walls, roof. All doors and windows closed during music). Single rooftop HVAC unit	38	39	41
83 Patrons (Talking on Porch (north and west)	22	10	28
Vehicular Movements (50 per hour, incoming or outgoing)	13	16	22
Total Sound Level (dBA)	38	39	41
Noise Criteria (dBA), Daytime	45	45	45
Noise Impact (dB)	**- 7**	**- 6**	**- 4**

Table 5: Points-of-Reception Noise Impact Table Evening & Nighttime (1900–2300 & 2300–0700 Hours)			
Source ID	**POR1**	**POR2**	**POR3**
Building noise (combination of sound penetrations through all walls, roof. All doors and windows closed during music)	38	39	41
83 Patrons Talking on Porch (north and west)	22	10	28
Vehicular Movements (50 per hour, incoming or outgoing)	13	16	22
Total Sound Level (dBA)	38	39	41
Noise Criteria (dBA), Evening/Nighttime	40	40	40
Noise Impact (dB)	**- 2**	**- 1**	**1**

As expected, the music is the dominant source of sound from the proposed event venue and noise control measures will be required as a minor noise impact (1 dB) during the evening and nighttime has been identified at R3 to the northwest. The vehicular movements and people talking outdoors are acoustically minor relative to the music and require no additional noise control measures.

5.0 NOISE CONTROL MEASURES

To meet the MECP noise guideline, the venue building must be operated with all windows and doors closed while music (live or pre-recorded) is active. There would be no need for any external noise control measures such as earth berms or fences at the perimeter of the site to shield the off-site receptor.

It is recommended that the maximum sound level at any door or window opening be 90 dBA, a fairly high level of sound. It is expected that the sound levels will typically be 80 to 85 dBA at these locations.

The event venue is to be centrally air-conditioned so that the windows and doors remain closed especially for live or pre-recorded music. Doors are not to be propped open, which will result noise excesses. With patrons going in and out of the building through the west door, it is recommended that a vestibule be considered to limit sound passing through to the outside as patrons enter and exit the building, otherwise, noise impact are expected during the evening and nighttime as it is not possible to control the amount of time the door remains open.

The internal loudspeaker system used for events is to incorporate a sound limiter that is set to a pre-set maximum level and is only accessible by the management. There are to be no externally mounted loudspeaker at the building or on the grounds. The use of subwoofers should be set at a low level to help reduce potential off-site noise impacts.

Where no amplified music is being played, most doors and windows can remain open at all times of the day, evening, or night.

It is recommended the acoustic consultant review the final architectural drawings and confirm what measures to the design are needed to ensure the noise criteria are met. Where applicable, upgrades to the walls, doors, windows, and roofing may be necessary from those preliminary sound ratings provided in this report.

It is recommended the acoustic consultant monitor the first live music event to confirm MECP's *NPC-300* noise criteria are met at the off-site residences. If excesses are identified, adjustment to the sound level limits of the sound system may be necessary.

6.0 CONCLUSIONS

We conclude that the operation of the proposed event venue would meet MECP's *NPC-300* noise guidelines at any time of the day, evening, or night, where adequate design of the exterior building façade of the venue has been carried out, and air conditioning and use of limiters on the loudspeaker systems are incorporated. Meeting MECP's *NPC-300* noise criteria are dependent upon the doors and windows being closed when music is been played. The measures to construct an exterior façade (walls and roofing) are not onerous, provided the STC ratings meet those noted in this report.

It is noted that MECP's noise criteria do not guarantee that an off-site receptor will not hear the activities at the venue. In the case of a rural environment, as is the case here, the ambient sound levels are often less than the MECP's 40 dBA nighttime exclusion limit. Sound levels of 30 dBA are common. This may result in responses from off-site receptors that the music is audible.

7.0 RECOMMENDATIONS

To meet MECP's *NPC-300* noise criteria (day, evening, and night operation), the following noise control measures are recommended:

1. The proposed event venue building is to operate with all doors and windows closed, with live or pre-recorded music being played. It is recommended that the maximum sound level at any door or window opening be 90 dBA, a fairly high level of sound. It is expected the sound levels will typically be 80 to 85 dBA at these perimeter locations.

2. The internal loudspeaker system used for events is to incorporate a sound limiter that is set to a pre-set maximum level and is only accessible by the management. There are to be no externally mounted loudspeakers at the building or on the grounds. The use of subwoofers should be set at a low level to help reduce potential off-site noise impacts.

3. With patrons going in and out of the building through the west door, it is recommended that a vestibule be considered to limit sound passing through to the outside as patrons enter and exit the building, otherwise, noise impact are expected during the evening and nighttime as it is not possible to control the amount of time the door remains open.

4. It is recommended the acoustic consultant review the final architectural drawings and confirm what measures to the design are needed to ensure the noise criteria are met. Where applicable, upgrades to the walls, doors, windows and roofing may be necessary from those preliminary sound ratings provided in this report.

5. It is recommended that for the first live event with live music, the sound levels be monitored to ensure MECP's *NPC-300* noise criteria are met at the noise sensitive receptors. If excesses are identified, adjustments to the sound level output will be required.

6. The existing venue is remaining and that concurrent events with the new event building may require additional noise control measures.

/hp/pt

APPENDIX A: FIGURES

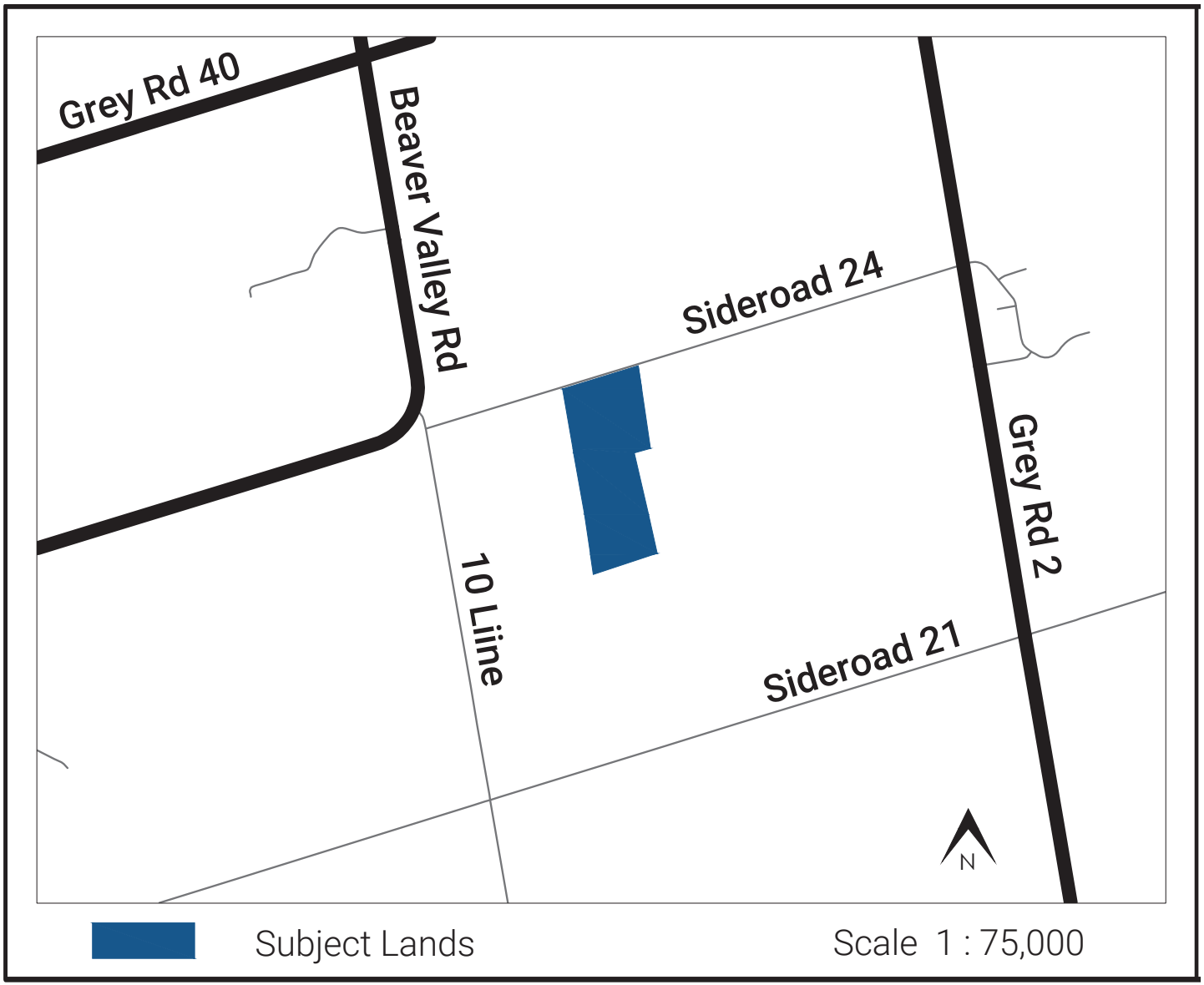

Grey Rd 40
Beaver Valley Rd
Sideroad 24
Grey Rd 2
10 Liine
Sideroad 21
N
Subject Lands
Scale 1 : 75,000

FIGURE 1

Concept Plan

808108 24th Sideroad
Part of Lot 24, Concession 10
Town of the Blue Mountains
County of Grey

AGRICULTURAL

Sideroad 24
±20m Public R.O.W.

H Zone
SA Zone

389.7

410.3

Covered Porch
Prop. Building
Loading
Prop. Septic

119.9
104.5

SA Zone
H Zone
SA Zone

625.2

A Zone
SA Zone

AGRICULTURAL

82.6

AGRICULTURAL

305.9

H Zone
SA Zone

297.9

18.6

311.6

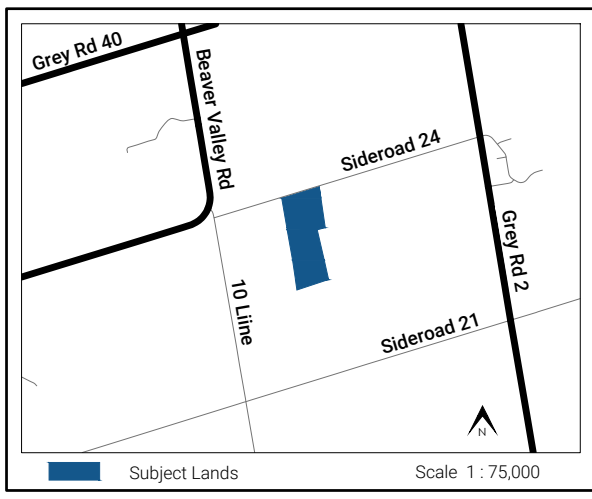
AGRICULTURAL

INSET MAP Scale 1 : 2,000

On-Farm Diversified Use Area

- Main Building	±390.1m²
- Covered Porch	±134.9m²
- Parking	1,250m² (50 x 25m²)
- Amenity	±121.1m²
- Septic Area	±450m²
	2,346.1m²

17.7
Covered Porch
Prop. Building
18.3
14.6
24.4
Loading
Prop. Septic
119.9 (to creek)
104.5 (to creek)



LEGEND

- Subject Lands
  Lot Area: ±31.299ha (77.34ac)
  Lot Frontage: ±389.5m
- Proposed Building
- Zone Boundary
- Unevaluated Wetlands
- GSCA Regulated Area

0 50 100 150 200m
Scale: 1 : 4,000
N

Note:	This drawing is for discussion purposes only. Boundary to be verified by an O.L.S.
Source:	Design Option 3, Justin Sherry Design Studio, August 2, 2024. County of Grey interactive map.
Drawn By: A.M.	Date: September 25, 2024 — File No: 1380

MORGAN
PLANNING & DEVELOPMENT
98 Tecumseth Street,
Orillia, ON, L3V 1Y2
Phone: (705) 327-1873
jmorgan@morganplanning.ca

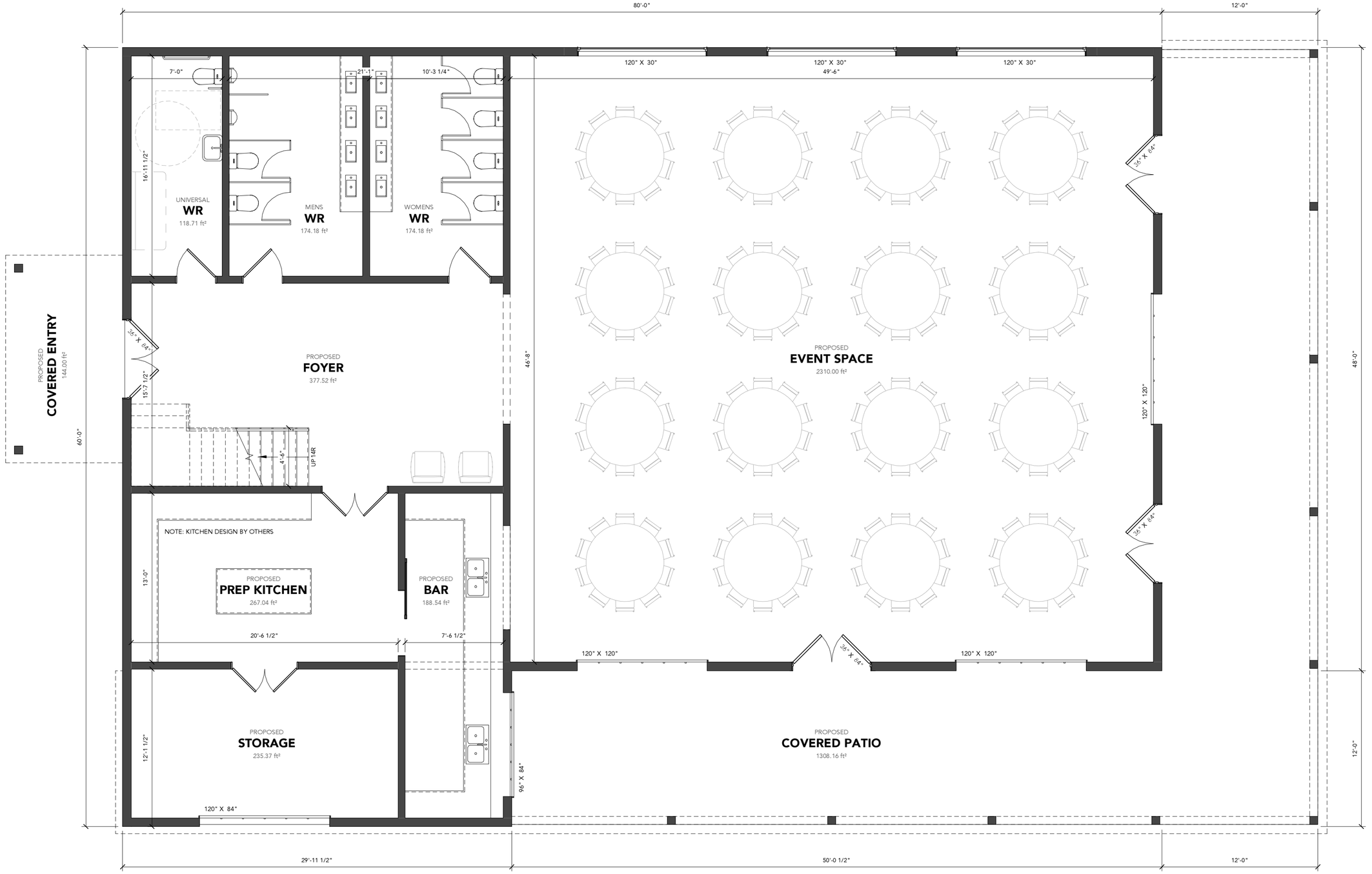
FIGURE 2

INSET MAP Scale 1 : 2,000

FIGURE 3

[FLOOR AREAS]

GROUND FLOOR	4199.44 SF
SECOND FLOOR	1347.03 SF
COVERED PATIO	1308.16 SF
COVERED ENTRY	144.00 SF



SCALE: 3/16" = 1'-0"

[GROUND FLOOR PLAN]

JUST [IN]

justin sherry design studio

JUSTIN SHERRY DESIGN STUDIO

17 POYNTZ STREET
BARRIE, ONTARIO, L4M 3N6

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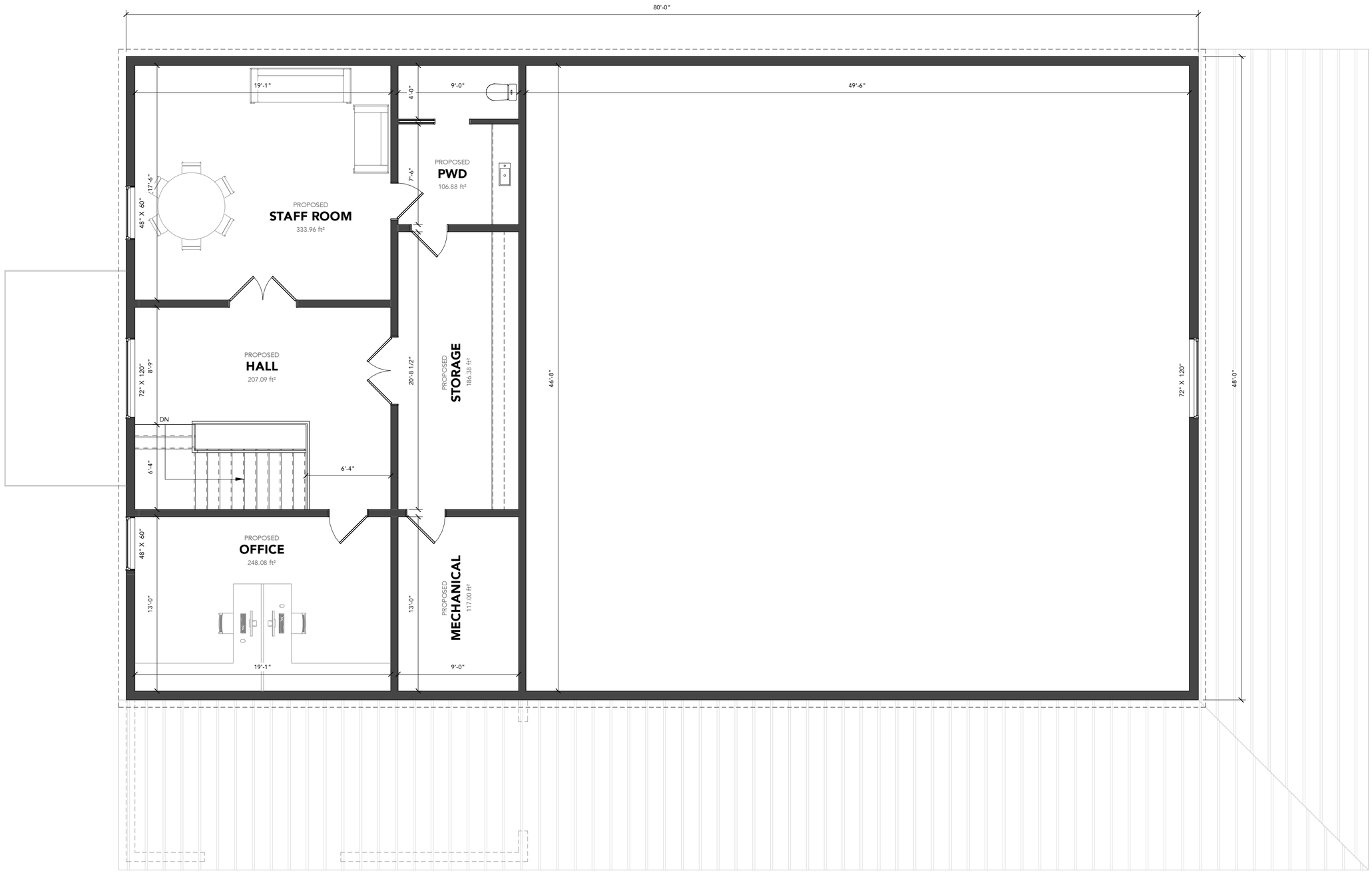
SPY CIDER HOUSE & DISTILLERY
808108 SIDEROAD 24
THE BLUE MOUNTAINS

[DRAWN BY] DANIELLE BILODEAU
[PROJECT NO.] 2024-032

DESIGN OPTION 3
08.02.2024

[A1]

FIGURE 4



SCALE: 3/16" = 1'-0"

[SECOND FLOOR PLAN]

JUST[IN]
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[PROJECT NO.] 2024-032

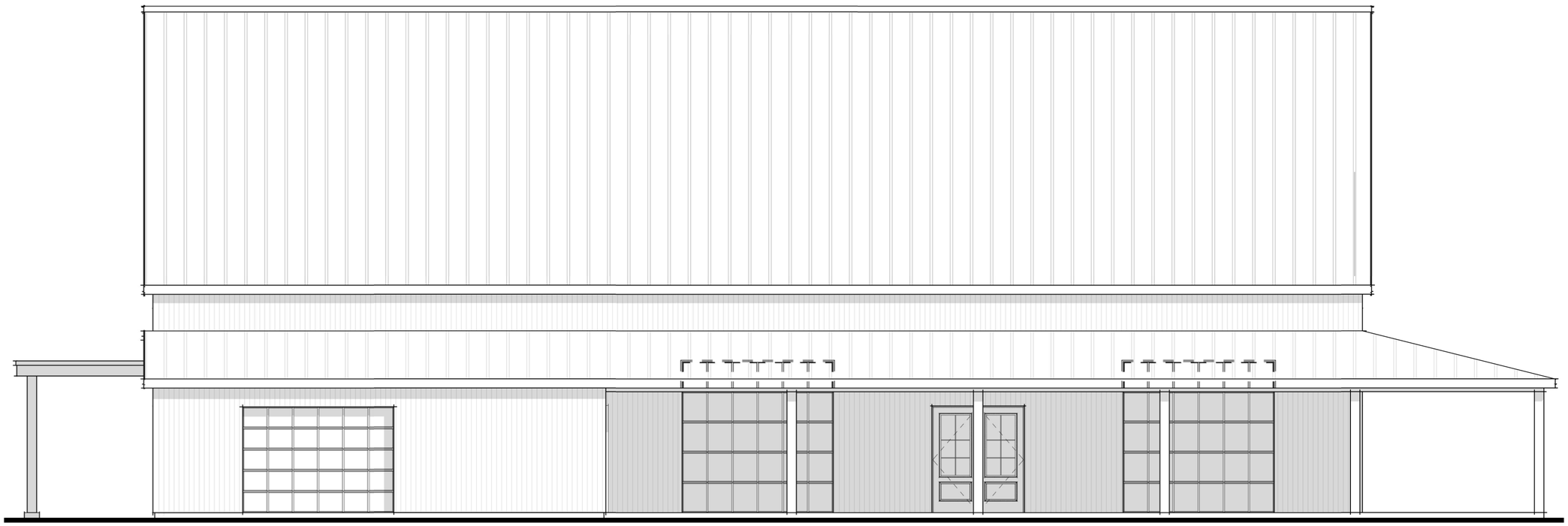
DESIGN OPTION 3
08.02.2024

[A2]

FIGURE 5

SCALE: 3/16" = 1'-0"

[EAST ELEVATION]



SCALE: 3/16" = 1'-0"

[NORTH ELEVATION]

SCALE: 3/16" = 1'-0"

[NORTH & EAST ELEVATIONS]

JUST[IN]

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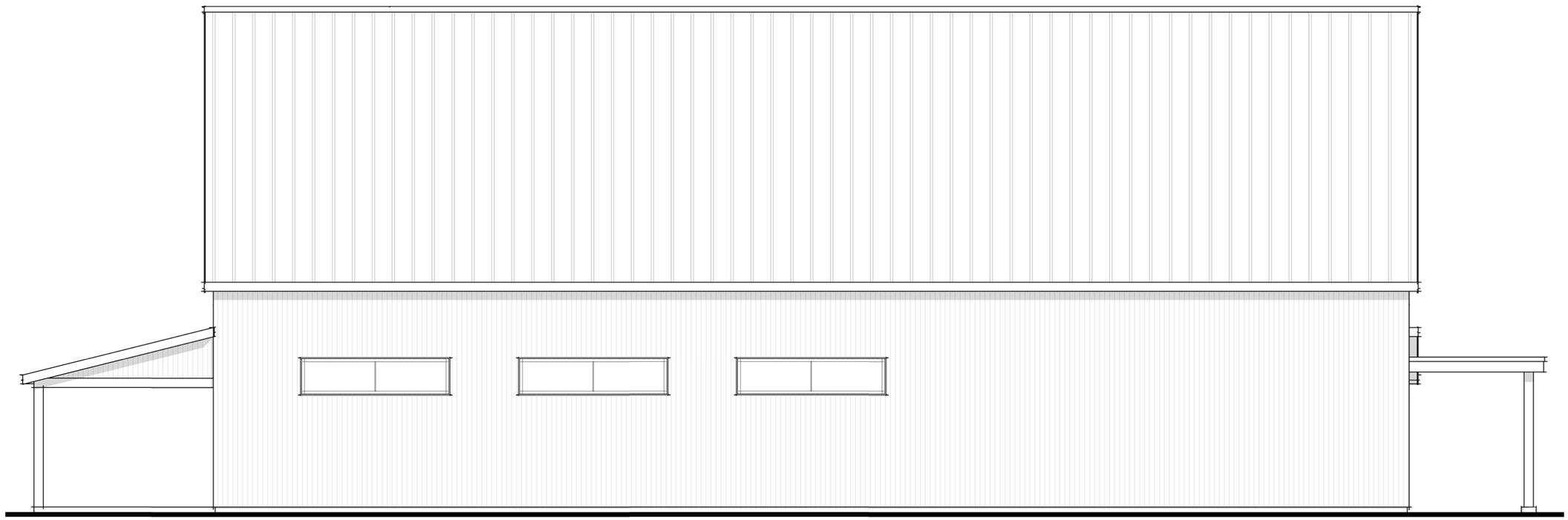
SPY CIDER HOUSE & DISTILLERY
808108 SIDEROAD 24
THE BLUE MOUNTAINS

[DRAWN BY] DANIELLE BILODEAU
[PROJECT NO.] 2024-032

DESIGN OPTION 3
08.02.2024

[A3]

FIGURE 6



SCALE: 3/16" = 1'-0"

[SOUTH ELEVATION]

SCALE: 3/16" = 1'-0"

[WEST ELEVATION]

SCALE: 3/16" = 1'-0"

[SOUTH & WEST ELEVATIONS]

JUST[IN]

justin sherry design studio

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17 POYNTZ STREET
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SPY CIDER HOUSE & DISTILLERY
808108 SIDEROAD 24
THE BLUE MOUNTAINS

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[PROJECT NO.] 2024-032

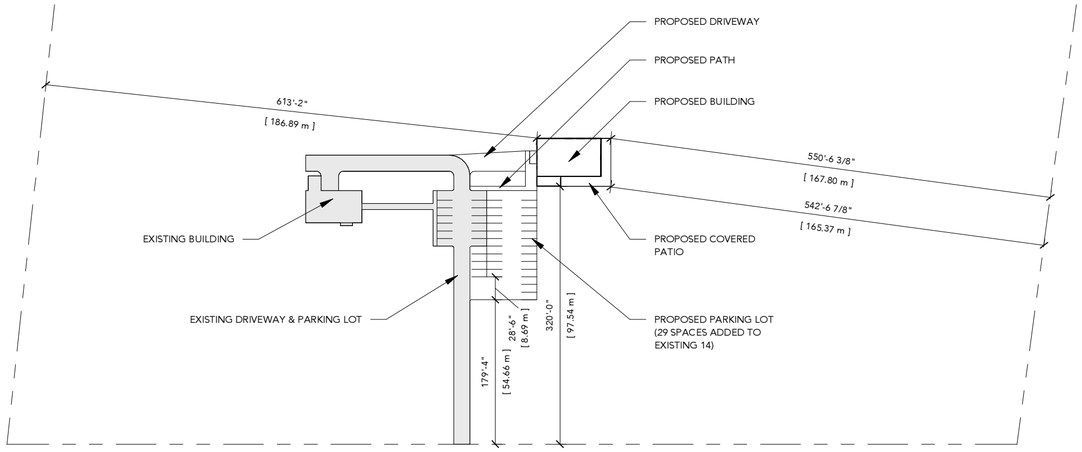
DESIGN OPTION 3
08.02.2024

[A4]

FIGURE 7

[FLOOR AREAS]

GROUND FLOOR	4199.44 SF
SECOND FLOOR	1347.03 SF
COVERED PATIO	1308.16 SF
COVERED ENTRY	144.00 SF



SIDEROAD 24

SCALE: 1" = 125'-0"

[KEY PLAN]

SCALE: As indicated

[SITE PLANS]

SIDEROAD 24

SCALE: 1" = 200'-0"

[SITE PLAN]

JUST[I N]
justin sherry design studio

JUSTIN SHERRY DESIGN STUDIO

17 POYNTZ STREET
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SPY CIDER HOUSE & DISTILLERY
808108 SIDEROAD 24
THE BLUE MOUNTAINS

[DRAWN BY] DANIELLE BILODEAU
[PROJECT NO.] 2024-032

DESIGN OPTION 3
08.02.2024

[A5]

FIGURE 8


17543250
17543300
17543350
17543400
17543450
17543500
17543550
17543600
17543650
17543700
17543750
17543800
17543850
17543900
17543950
17544000
17544050
17544100
17544150
4929250
4929200
4929150
4929100
4929050
4929000
4928950
4928900
4928850
4928800
4928750
R3: 41 Day/Eve/Night
24th SIDEROAD
R2: 39 dBA Day/Eve/Night
R1: 38 Day/Eve/Night
PROJECTED SOUND LEVELS FROM PROPOSED EVENT VENUE

FIGURE 9

APPENDIX B: SOUND CALCULATIONS

SAMPLE COMPUTER PRINTOUTS

Receiver
Name: R1
ID:
X: 17543315.86 m
Y: 4928769.34 m
Z: 1.50 m

vert. Area Source, ISO 9613, Name: "N Wall", ID: "NORTH"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
12	17543617.96	4928976.03	3.07	0	DEN	A	70.8	12.5	0.0	3.0	0.0	62.3	0.1	-4.5	0.0	0.0	4.3	0.0	0.0	24.2
43	17543609.29	4928973.55	3.07	0	DEN	A	70.8	-10.2	0.0	3.0	0.0	62.1	0.1	-4.5	0.0	0.0	3.1	0.0	0.0	2.8
174	17543621.26	4928976.97	3.07	1	DEN	A	70.8	10.4	0.0	3.0	0.0	65.1	0.1	-4.9	0.0	0.0	5.7	0.0	27.5	-9.4
181	17543612.60	4928974.49	3.07	1	DEN	A	70.8	8.4	0.0	3.0	0.0	65.3	0.1	-4.9	0.0	0.0	4.9	0.0	23.1	-6.4
188	17543617.96	4928976.03	4.07	0	DEN	A	70.8	12.5	0.0	3.0	0.0	62.3	0.1	-4.3	0.0	0.0	3.4	0.0	0.0	24.8
190	17543609.29	4928973.55	4.07	0	DEN	A	70.8	-10.2	0.0	3.0	0.0	62.1	0.1	-4.3	0.0	0.0	2.3	0.0	0.0	3.3
192	17543621.26	4928976.97	4.07	1	DEN	A	70.8	10.4	0.0	3.0	0.0	65.1	0.1	-4.7	0.0	0.0	4.8	0.0	21.6	-2.8
201	17543612.60	4928974.49	4.07	1	DEN	A	70.8	8.4	0.0	3.0	0.0	65.3	0.1	-4.7	0.0	0.0	4.8	0.0	20.6	-3.9
205	17543617.96	4928976.03	1.07	0	DEN	A	70.8	12.5	0.0	3.0	0.0	62.3	0.1	-5.0	0.0	0.0	4.9	0.0	0.0	24.0
213	17543609.29	4928973.55	1.07	0	DEN	A	70.8	-10.2	0.0	3.0	0.0	62.1	0.1	-5.0	0.0	0.0	3.7	0.0	0.0	2.7
215	17543621.26	4928976.97	1.07	1	DEN	A	70.8	10.4	0.0	3.0	0.0	65.1	0.1	-5.2	0.0	0.0	8.9	0.0	32.7	-17.4
220	17543612.60	4928974.49	1.07	1	DEN	A	70.8	8.4	0.0	3.0	0.0	65.3	0.1	-5.2	0.0	0.0	6.3	0.0	29.6	-14.0
222	17543617.96	4928976.03	2.07	0	DEN	A	70.8	12.5	0.0	3.0	0.0	62.3	0.1	-4.8	0.0	0.0	4.7	0.0	0.0	24.0
224	17543609.29	4928973.55	2.07	0	DEN	A	70.8	-10.2	0.0	3.0	0.0	62.1	0.1	-4.7	0.0	0.0	3.4	0.0	0.0	2.7
227	17543621.26	4928976.97	2.07	1	DEN	A	70.8	10.4	0.0	3.0	0.0	65.1	0.1	-5.0	0.0	0.0	7.3	0.0	31.0	-14.3
239	17543612.60	4928974.49	2.07	1	DEN	A	70.8	8.4	0.0	3.0	0.0	65.3	0.1	-5.1	0.0	0.0	5.5	0.0	26.9	-10.5
276	17543617.96	4928976.03	0.29	0	DEN	A	70.8	10.1	0.0	3.0	0.0	62.3	0.1	-5.2	0.0	0.0	5.1	0.0	0.0	21.6
279	17543609.29	4928973.55	0.29	0	DEN	A	70.8	-12.6	0.0	3.0	0.0	62.1	0.1	-5.2	0.0	0.0	3.8	0.0	0.0	0.3
284	17543621.26	4928976.97	0.29	1	DEN	A	70.8	8.0	0.0	3.0	0.0	65.1	0.1	-5.3	0.0	0.0	10.0	0.0	33.4	-21.6
285	17543612.60	4928974.49	0.29	1	DEN	A	70.8	6.0	0.0	3.0	0.0	65.3	0.1	-5.3	0.0	0.0	7.1	0.0	31.1	-18.5

vert. Area Source, ISO 9613, Name: "S Wall", ID: "SOUTH"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
247	17543620.15	4928961.75	1.07	0	DEN	A	70.8	11.9	0.0	3.0	0.0	62.1	0.1	-5.0	0.0	0.0	0.0	0.0	0.0	28.4
250	17543620.15	4928961.75	2.07	0	DEN	A	70.8	11.9	0.0	3.0	0.0	62.1	0.1	-4.8	0.0	0.0	0.0	0.0	0.0	28.2
252	17543620.15	4928961.75	4.07	0	DEN	A	70.8	11.9	0.0	3.0	0.0	62.1	0.1	-4.3	0.0	0.0	0.0	0.0	0.0	27.7
271	17543620.15	4928961.75	3.07	0	DEN	A	70.8	11.9	0.0	3.0	0.0	62.1	0.1	-4.5	0.0	0.0	0.0	0.0	0.0	27.9
312	17543620.15	4928961.75	0.29	0	DEN	A	70.8	9.4	0.0	3.0	0.0	62.1	0.1	-5.2	0.0	0.0	0.0	0.0	0.0	26.1

Point Source, ISO 9613, Name: "HVAC", ID: "HVAC"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
274	17543612.70	4928967.17	5.57	0	DEN	500	85.0	0.0	0.0	0.0	0.0	62.0	0.7	5.0	0.0	0.0	8.0	0.0	0.0	9.3

vert. Area Source, ISO 9613, Name: "W Wall", ID: "WEST"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
288	17543611.52	4928964.26	4.60	0	DEN	A	70.8	9.5	0.0	3.0	0.0	62.0	0.1	-4.1	0.0	0.0	0.0	0.0	0.0	25.3
296	17543611.52	4928964.26	2.60	0	DEN	A	70.8	9.5	0.0	3.0	0.0	62.0	0.1	-4.6	0.0	0.0	0.0	0.0	0.0	25.8
298	17543611.52	4928964.26	5.60	0	DEN	A	70.8	9.5	0.0	3.0	0.0	62.0	0.1	-3.9	0.0	0.0	0.0	0.0	0.0	25.0
304	17543611.52	4928964.26	3.60	0	DEN	A	70.8	9.5	0.0	3.0	0.0	62.0	0.1	-4.4	0.0	0.0	0.0	0.0	0.0	25.5
321	17543611.52	4928964.26	1.81	0	DEN	A	70.8	7.1	0.0	3.0	0.0	62.0	0.1	-4.8	0.0	0.0	0.0	0.0	0.0	23.5
324	17543609.83	4928971.05	3.60	0	DEN	A	70.8	7.1	0.0	3.0	0.0	62.0	0.1	-4.4	0.0	0.0	0.0	0.0	0.0	23.0
326	17543609.55	4928972.23	2.87	1	DEN	A	70.8	4.2	0.0	3.0	0.0	65.3	0.1	-4.9	0.0	0.0	12.2	0.0	52.6	-47.4
328	17543609.83	4928971.05	2.60	0	DEN	A	70.8	7.1	0.0	3.0	0.0	62.0	0.1	-4.6	0.0	0.0	0.0	0.0	0.0	23.3
330	17543609.55	4928972.23	1.87	1	DEN	A	70.8	4.2	0.0	3.0	0.0	65.3	0.1	-5.1	0.0	0.0	13.5	0.0	51.3	-47.2
333	17543609.83	4928971.05	5.60	0	DEN	A	70.8	7.1	0.0	3.0	0.0	62.0	0.1	-3.9	0.0	0.0	0.0	0.0	0.0	22.5
339	17543609.51	4928972.41	4.75	1	DEN	A	70.8	3.6	0.0	3.0	0.0	65.3	0.1	-4.6	0.0	0.0	7.1	0.0	52.6	-43.2
342	17543609.83	4928971.05	4.60	0	DEN	A	70.8	7.1	0.0	3.0	0.0	62.0	0.1	-4.1	0.0	0.0	0.0	0.0	0.0	22.8
356	17543609.47	4928972.56	3.66	1	DEN	A	70.8	2.9	0.0	3.0	0.0	65.3	0.1	-4.8	0.0	0.0	10.5	0.0	54.3	-48.8
536	17543609.83	4928971.05	1.81	0	DEN	A	70.8	4.6	0.0	3.0	0.0	62.0	0.1	-4.8	0.0	0.0	0.0	0.0	0.0	21.0
544	17543609.55	4928972.23	1.08	1	DEN	A	70.8	1.8	0.0	3.0	0.0	65.3	0.1	-5.2	0.0	0.0	14.3	0.0	50.8	-49.8

Point Source, ISO 9613, Name: "Child - 5", ID: "TALK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
367	17543609.95	4928968.65	1.20	0	D	A	81.5	0.0	0.0	0.0	0.0	62.0	2.3	1.9	0.0	0.0	0.0	0.0	0.0	15.3
369	17543609.95	4928968.65	1.20	1	D	A	81.5	0.0	0.0	0.0	0.0	62.0	2.3	1.9	0.0	0.0	0.0	0.0	0.0	15.3

Point Source, ISO 9613, Name: "Child - 5", ID: "TALK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
372	17543617.68	4928976.80	1.20	0	D	A	81.5	0.0	0.0	0.0	0.0	62.3	2.3	1.9	0.0	0.0	12.7	0.0	0.0	2.3
379	17543617.68	4928976.80	1.20	1	D	A	81.5	0.0	0.0	0.0	0.0	65.2	3.1	0.5	0.0	0.0	17.1	0.0	2.8	-7.1
381	17543617.68	4928976.80	1.20	2	D	A	81.5	0.0	0.0	0.0	0.0	65.2	3.1	0.5	0.0	0.0	16.9	0.0	31.3	-35.5

vert. Area Source, ISO 9613, Name: "N Window", ID: "NORTH"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
387	17543611.97	4928974.34	0.50	0	DEN	A	71.6	4.8	0.0	3.0	0.0	62.1	0.6	12.6	0.0	0.0	3.9	0.0	0.0	0.1
393	17543611.97	4928974.34	0.50	1	DEN	A	71.6	4.8	0.0	3.0	0.0	65.3	0.8	13.0	0.0	0.0	2.3	0.0	15.9	-18.0
406	17543611.97	4928974.34	1.50	0	DEN	A	71.6	4.8	0.0	3.0	0.0	62.1	0.6	9.7	0.0	0.0	5.1	0.0	0.0	1.9
413	17543611.97	4928974.34	1.50	1	DEN	A	71.6	4.8	0.0	3.0	0.0	65.3	0.8	6.8	0.0	0.0	3.1	0.0	18.3	-15.0
417	17543611.97	4928974.34	2.50	0	DEN	A	71.6	4.8	0.0	3.0	0.0	62.1	0.6	7.3	0.0	0.0	5.5	0.0	0.0	3.9
418	17543611.97	4928974.34	2.50	1	DEN	A	71.6	4.8	0.0	3.0	0.0	65.3	0.8	6.3	0.0	0.0	2.5	0.0	15.7	-11.2

Point Source, ISO 9613, Name: "Male - 40", ID: "TALK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
429	17543609.03	4928972.49	1.50	0	D	A	83.6	0.0	0.0	0.0	0.0	62.0	1.3	4.3	0.0	0.0	0.0	0.0	0.0	15.9
436	17543609.03	4928972.49	1.50	1	D	A	83.6	0.0	0.0	0.0	0.0	62.1	1.3	4.3	0.0	0.0	14.3	0.0	0.0	1.6
446	17543609.03	4928972.49	1.50	1	D	A	83.6	0.0	0.0	0.0	0.0	65.3	1.8	3.1	0.0	0.0	20.6	0.0	13.5	-20.7
448	17543609.03	4928972.49	1.50	1	D	A	83.6	0.0	0.0	0.0	0.0	62.1	1.3	4.3	0.0	0.0	0.0	0.0	0.0	15.9

vert. Area Source, ISO 9613, Name: "N Window", ID: "NORTH"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
450	17543623.26	4928977.59	2.50	0	DEN	A	71.6	4.8	0.0	3.0	0.0	62.4	0.6	7.3	0.0	0.0	9.2	0.0	0.0	-0.1
457	17543623.26	4928977.59	2.50	1	DEN	A	71.6	4.8	0.0	3.0	0.0	65.1	0.8	6.3	0.0	0.0	7.4	0.0	19.3	-19.5
459	17543623.26	4928977.59	2.50	2	DEN	A	71.6	4.8	0.0	3.0	0.0	65.1	0.8	6.3	0.0	0.0	10.9	0.0	36.0	-39.7
462	17543623.26	4928977.59	0.50	0	DEN	A	71.6	4.8	0.0	3.0	0.0	62.4	0.6	12.7	0.0	0.0	7.2	0.0	0.0	-3.4
469	17543623.26	4928977.59	0.50	1	DEN	A	71.6	4.8	0.0	3.0	0.0	65.1	0.8	9.7	0.0	0.0	9.3	0.0	19.6	-25.1
474	17543623.26	4928977.59	0.50	2	DEN	A	71.6	4.8	0.0	3.0	0.0	65.1	0.8	9.7	0.0	0.0	11.5	0.0	31.7	-39.5
485	17543623.26	4928977.59	1.50	0	DEN	A	71.6	4.8	0.0	3.0	0.0	62.4	0.6	9.7	0.0	0.0	8.7	0.0	0.0	-1.9
491	17543623.26	4928977.59	1.50	1	DEN	A	71.6	4.8	0.0	3.0	0.0	65.1	0.8	6.7	0.0	0.0	10.1	0.0	19.6	-22.9
519	17543623.26	4928977.59	1.50	2	DEN	A	71.6	4.8	0.0	3.0	0.0	65.1	0.8	6.7	0.0	0.0	13.0	0.0	33.2	-39.3

Point Source, ISO 9613, Name: "Male - 40", ID: "TALK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
523	17543611.74	4928975.12	1.50	0	D	A	83.6	0.0	0.0	0.0	0.0	62.1	1.4	4.3	0.0	0.0	4.2	0.0	0.0	11.5
525	17543611.74	4928975.12	1.50	1	D	A	83.6	0.0	0.0	0.0	0.0	65.3	1.8	2.9	0.0	0.0	9.0	0.0	7.6	-2.9
528	17543611.74	4928975.12	1.50	2	D	A	83.6	0.0	0.0	0.0	0.0	65.3	1.8	2.9	0.0	0.0	10.1	0.0	36.9	-33.4
533	17543611.74	4928975.12	1.50	2	D	A	83.6	0.0	0.0	0.0	0.0	65.3	1.8	2.9	0.0	0.0	8.7	0.0	91.1	-86.2

vert. Area Source, ISO 9613, Name: "S Window", ID: "SOUTH"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
564	17543615.75	4928960.65	2.82	0	DEN	A	71.6	3.6	0.0	3.0	0.0	62.0	0.5	6.9	0.0	0.0	0.0	0.0	0.0	8.7

vert. Area Source, ISO 9613, Name: "S Window", ID: "SOUTH"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
570	17543620.07	4928961.71	2.82	0	DEN	A	71.6	3.6	0.0	3.0	0.0	62.1	0.6	6.9	0.0	0.0	0.0	0.0	0.0	8.6

vert. Area Source, ISO 9613, Name: "S Window", ID: "SOUTH"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
578	17543624.35	4928962.75	2.82	0	DEN	A	71.6	3.6	0.0	3.0	0.0	62.2	0.6	6.9	0.0	0.0	0.0	0.0	0.0	8.5

vert. Area Source, ISO 9613, Name: "W Window", ID: "WEST"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
581	17543612.13	4928961.47	5.81	0	DEN	A	71.6	2.5	0.0	3.0	0.0	62.0	0.5	5.7	0.0	0.0	0.0	0.0	0.0	8.9
590	17543612.13	4928961.47	6.81	0	DEN	A	71.6	2.5	0.0	3.0	0.0	62.0	0.5	5.6	0.0	0.0	0.0	0.0	0.0	9.0
597	17543612.13	4928961.47	4.81	0	DEN	A	71.6	2.5	0.0	3.0	0.0	62.0	0.5	5.9	0.0	0.0	0.0	0.0	0.0	8.6
599	17543612.13	4928961.47	4.81	1	DEN	A	71.6	2.5	0.0	3.0	0.0	62.0	0.5	5.9	0.0	0.0	0.0	0.0	0.0	8.6
793	17543612.13	4928961.47	4.29	0	DEN	A	71.6	-11.5	0.0	3.0	0.0	62.0	0.5	6.1	0.0	0.0	0.0	0.0	0.0	-5.5
802	17543612.13	4928961.47	4.29	1	DEN	A	71.6	-11.5	0.0	3.0	0.0	62.0	0.5	6.1	0.0	0.0	2.1	0.0	0.0	-7.6
805	17543612.13	4928961.47	4.29	1	DEN	A	71.6	-11.5	0.0	3.0	0.0	62.0	0.5	6.1	0.0	0.0	0.0	0.0	0.0	-5.5

vert. Area Source, ISO 9613, Name: "W Window", ID: "WEST"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
604	17543609.65	4928971.56	4.81	0	DEN	A	71.6	2.5	0.0	3.0	0.0	62.0	0.6	6.0	0.0	0.0	0.0	0.0	0.0	8.5
606	17543609.62	4928971.67	4.81	1	DEN	A	71.6	1.9	0.0	3.0	0.0	65.3	0.8	5.5	0.0	0.0	9.1	0.0	36.3	-40.6
612	17543609.65	4928971.56	6.81	0	DEN	A	71.6	2.5	0.0	3.0	0.0	62.0	0.6	5.6	0.0	0.0	0.0	0.0	0.0	8.9
615	17543609.65	4928971.56	5.81	0	DEN	A	71.6	2.5	0.0	3.0	0.0	62.0	0.6	5.7	0.0	0.0	0.0	0.0	0.0	8.8
633	17543609.62	4928971.68	5.81	1	DEN	A	71.6	1.9	0.0	3.0	0.0	65.3	0.8	5.4	0.0	0.0	0.5	0.0	27.5	-23.1
809	17543609.65	4928971.56	4.29	0	DEN	A	71.6	-11.5	0.0	3.0	0.0	62.0	0.6	6.1	0.0	0.0	0.0	0.0	0.0	-5.6
812	17543609.62	4928971.67	4.29	1	DEN	A	71.6	-12.1	0.0	3.0	0.0	65.3	0.8	5.6	0.0	0.0	11.5	0.0	36.3	-57.2

vert. Area Source, ISO 9613, Name: "E Window", ID: "EAST"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
636	17543634.75	4928972.50	4.81	0	DEN	A	71.6	2.6	0.0	3.0	0.0	62.6	0.6	6.0	0.0	0.0	10.4	0.0	0.0	-2.4
644	17543634.75	4928972.50	5.81	0	DEN	A	71.6	2.6	0.0	3.0	0.0	62.6	0.6	5.7	0.0	0.0	9.0	0.0	0.0	-0.7
648	17543634.75	4928972.50	6.81	0	DEN	A	71.6	2.6	0.0	3.0	0.0	62.6	0.6	5.6	0.0	0.0	6.1	0.0	0.0	2.3
816	17543634.75	4928972.50	4.29	0	DEN	A	71.6	-11.4	0.0	3.0	0.0	62.6	0.6	6.2	0.0	0.0	10.9	0.0	0.0	-17.0

Point Source, ISO 9613, Name: "Female - 40", ID: "TALK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
653	17543611.30	4928963.53	1.50	0	D	500	76.9	0.0	0.0	0.0	0.0	62.0	0.7	9.9	0.0	0.0	0.0	0.0	0.0	4.3
657	17543611.30	4928963.53	1.50	1	D	500	76.9	0.0	0.0	0.0	0.0	62.0	0.7	9.9	0.0	0.0	0.0	0.0	0.0	4.2

Point Source, ISO 9613, Name: "Female - 40", ID: "TALK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
663	17543623.92	4928978.56	1.50	0	D	500	76.9	0.0	0.0	0.0	0.0	62.4	0.7	9.9	0.0	0.0	8.3	0.0	0.0	-4.5
672	17543623.92	4928978.56	1.50	1	D	500	76.9	0.0	0.0	0.0	0.0	62.5	0.7	9.9	0.0	0.0	10.5	0.0	0.0	-6.8

Area Source, ISO 9613, Name: "ROOF N", ID: "ROOF"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
676	17543621.33	4928975.51	5.08	0	DEN	A	49.7	17.0	0.0	0.0	0.0	62.3	0.3	-0.5	0.0	0.0	1.6	0.0	0.0	3.1
678	17543628.41	4928975.96	5.67	0	DEN	A	49.7	14.1	0.0	0.0	0.0	62.5	0.3	-0.4	0.0	0.0	0.9	0.0	0.0	0.6
680	17543631.26	4928974.40	6.57	0	DEN	A	49.7	13.8	0.0	0.0	0.0	62.5	0.3	-0.3	0.0	0.0	0.0	0.0	0.0	1.0
688	17543609.57	4928973.56	4.58	1	DEN	A	49.7	-18.4	0.0	0.0	0.0	65.3	0.4	-1.1	0.0	0.0	4.0	0.0	20.0	-57.2
690	17543609.93	4928973.64	4.58	1	DEN	A	49.7	-13.4	0.0	0.0	0.0	65.3	0.4	-1.1	0.0	0.0	4.0	0.0	20.0	-52.2
702	17543611.57	4928974.01	4.61	1	DEN	A	49.7	-0.4	0.0	0.0	0.0	65.3	0.4	-1.1	0.0	0.0	4.0	0.0	39.4	-58.6
704	17543616.46	4928975.12	4.71	1	DEN	A	49.7	9.2	0.0	0.0	0.0	65.2	0.4	-1.1	0.0	0.0	4.0	0.0	39.4	-48.9
706	17543620.83	4928976.10	4.80	1	DEN	A	49.7	8.3	0.0	0.0	0.0	65.1	0.4	-1.1	0.0	0.0	3.9	0.0	39.3	-49.7
708	17543622.77	4928976.54	4.85	1	DEN	A	49.7	4.0	0.0	0.0	0.0	65.1	0.4	-1.1	0.0	0.0	3.9	0.0	39.3	-54.0
713	17543623.85	4928976.44	5.00	1	DEN	A	49.7	12.1	0.0	0.0	0.0	65.1	0.4	-1.0	0.0	0.0	3.9	0.0	39.3	-45.9
756	17543626.80	4928971.47	7.27	0	DEN	A	49.7	13.0	0.0	0.0	0.0	62.4	0.3	-0.2	0.0	0.0	0.0	0.0	0.0	0.2
760	17543619.03	4928970.38	6.92	0	DEN	A	49.7	15.0	0.0	0.0	0.0	62.2	0.3	-0.2	0.0	0.0	1.5	0.0	0.0	0.9
765	17543613.58	4928971.10	6.04	0	DEN	A	49.7	16.1	0.0	0.0	0.0	62.1	0.3	-0.3	0.0	0.0	1.3	0.0	0.0	2.4
772	17543611.87	4928972.55	5.24	1	DEN	A	49.7	9.7	0.0	0.0	0.0	65.3	0.4	-1.0	0.0	0.0	3.9	0.0	39.5	-48.6
785	17543609.69	4928973.36	4.67	1	DEN	A	49.7	-6.5	0.0	0.0	0.0	65.3	0.4	-1.1	0.0	0.0	4.0	0.0	39.4	-64.8

Area Source, ISO 9613, Name: "ROOF S", ID: "ROOF"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
718	17543623.88	4928964.03	5.13	0	DEN	A	49.9	17.1	0.0	0.0	0.0	62.2	0.3	-0.5	0.0	0.0	0.0	0.0	0.0	4.9
731	17543615.44	4928964.29	6.12	0	DEN	A	49.9	16.2	0.0	0.0	0.0	62.1	0.3	-0.3	0.0	0.0	0.0	0.0	0.0	4.0
734	17543611.51	4928966.39	7.43	0	DEN	A	49.9	-1.4	0.0	0.0	0.0	62.0	0.3	-0.1	0.0	0.0	1.6	0.0	0.0	-15.4

Area Source, ISO 9613, Name: "ROOF S", ID: "ROOF"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
748	17543612.27	4928966.89	7.56	0	DEN	A	49.9	-2.4	0.0	0.0	0.0	62.0	0.3	-0.0	0.0	0.0	1.4	0.0	0.0	-16.3
750	17543623.56	4928968.52	7.07	0	DEN	A	49.9	17.0	0.0	0.0	0.0	62.3	0.3	-0.2	0.0	0.0	0.0	0.0	0.0	4.4
752	17543631.94	4928968.22	6.06	0	DEN	A	49.9	16.3	0.0	0.0	0.0	62.4	0.3	-0.4	0.0	0.0	0.0	0.0	0.0	3.8

vert. Area Source, ISO 9613, Name: "W Door", ID: "WEST"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
818	17543610.84	4928966.45	0.63	0	DEN	A	53.5	2.5	0.0	3.0	0.0	62.0	0.7	-0.5	0.0	0.0	0.0	0.0	0.0	-3.2
820	17543610.70	4928967.01	0.63	1	DEN	A	53.5	-2.0	0.0	3.0	0.0	62.0	0.7	-0.5	0.0	0.0	0.0	0.0	0.0	-7.7
822	17543610.92	4928966.15	0.63	1	DEN	A	53.5	0.6	0.0	3.0	0.0	62.0	0.7	-0.5	0.0	0.0	0.0	0.0	0.0	-5.1
827	17543610.84	4928966.45	1.63	0	DEN	A	53.5	2.5	0.0	3.0	0.0	62.0	0.7	-0.8	0.0	0.0	0.0	0.0	0.0	-2.9
830	17543610.70	4928967.01	1.63	1	DEN	A	53.5	-2.0	0.0	3.0	0.0	62.0	0.7	-0.8	0.0	0.0	0.0	0.0	0.0	-7.5
832	17543610.92	4928966.15	1.63	1	DEN	A	53.5	0.6	0.0	3.0	0.0	62.0	0.7	-0.8	0.0	0.0	0.0	0.0	0.0	-4.8
855	17543610.84	4928966.45	0.06	0	DEN	A	53.5	-6.3	0.0	3.0	0.0	62.0	0.7	-0.5	0.0	0.0	0.0	0.0	0.0	-12.0
857	17543610.70	4928967.01	0.06	1	DEN	A	53.5	-10.9	0.0	3.0	0.0	62.0	0.7	-0.5	0.0	0.0	0.0	0.0	0.0	-16.6
859	17543610.92	4928966.15	0.06	1	DEN	A	53.5	-8.2	0.0	3.0	0.0	62.0	0.7	-0.5	0.0	0.0	0.0	0.0	0.0	-13.9

vert. Area Source, ISO 9613, Name: "N Door", ID: "NORTH"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
834	17543617.73	4928976.02	0.63	0	DEN	A	53.5	2.6	0.0	3.0	0.0	62.3	0.7	-0.5	0.0	0.0	5.3	0.0	0.0	-8.7
836	17543617.73	4928976.02	0.63	1	DEN	A	53.5	2.6	0.0	3.0	0.0	65.2	0.9	-1.0	0.0	0.0	8.1	0.0	19.5	-33.7
838	17543617.73	4928976.02	0.63	2	DEN	A	53.5	2.6	0.0	3.0	0.0	65.2	0.9	-1.0	0.0	0.0	13.1	0.0	32.5	-51.8
842	17543617.73	4928976.02	1.63	0	DEN	A	53.5	2.6	0.0	3.0	0.0	62.3	0.7	-0.8	0.0	0.0	5.5	0.0	0.0	-8.6
844	17543617.73	4928976.02	1.63	1	DEN	A	53.5	2.6	0.0	3.0	0.0	65.2	0.9	-1.4	0.0	0.0	7.3	0.0	17.8	-30.8
846	17543617.73	4928976.02	1.63	2	DEN	A	53.5	2.6	0.0	3.0	0.0	65.2	0.9	-1.4	0.0	0.0	12.3	0.0	33.4	-51.4
861	17543617.73	4928976.02	0.06	0	DEN	A	53.5	-6.3	0.0	3.0	0.0	62.3	0.7	-0.5	0.0	0.0	5.3	0.0	0.0	-17.6
863	17543617.73	4928976.02	0.06	1	DEN	A	53.5	-6.3	0.0	3.0	0.0	65.2	0.9	-0.8	0.0	0.0	8.7	0.0	20.1	-43.9
865	17543617.73	4928976.02	0.06	2	DEN	A	53.5	-6.3	0.0	3.0	0.0	65.2	0.9	-0.8	0.0	0.0	13.5	0.0	32.3	-60.9

vert. Area Source, ISO 9613, Name: "E Door", ID: "EAST"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
849	17543634.73	4928972.48	0.63	0	DEN	A	53.5	2.4	0.0	3.0	0.0	62.6	0.7	-0.6	0.0	0.0	9.3	0.0	0.0	-13.1
851	17543634.73	4928972.48	1.63	0	DEN	A	53.5	2.4	0.0	3.0	0.0	62.6	0.7	-0.8	0.0	0.0	9.5	0.0	0.0	-13.1
869	17543634.73	4928972.48	0.06	0	DEN	A	53.5	-6.5	0.0	3.0	0.0	62.6	0.7	-0.6	0.0	0.0	9.3	0.0	0.0	-21.9

Road, TNM, Name: "Cars", ID: "ROAD"													
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	Ad	Aair	Agr	Afol	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
875	17543644.85	4929041.14	0.10	0	D	A	41.1	-26.9	0.0	2.1	0.0	0.0	12.0
914	17543655.72	4928993.14	0.10	0	D	A	41.1	-31.8	0.0	11.6	0.0	0.0	-2.3
921	17543655.99	4928991.92	0.10	1	D	A	41.1	-40.5	0.0	17.8	0.0	1.0	-18.1
933	17543656.67	4928988.94	0.10	1	D	A	41.1	-43.6	0.0	15.1	0.0	1.0	-18.6
945	17543657.04	4928987.28	0.10	1	D	A	41.1	-45.1	0.0	15.4	0.0	1.0	-20.5
971	17543657.68	4928984.47	0.10	2	D	A	41.1	-47.4	0.0	7.4	0.0	1.0	-14.7
988	17543656.98	4928987.59	0.10	2	D	A	41.1	-44.6	0.0	14.3	0.0	1.0	-18.8
1005	17543657.39	4928985.73	0.10	2	D	A	41.1	-44.8	0.0	14.3	0.0	1.0	-19.1
1030	17543657.71	4928984.33	0.10	2	D	A	41.1	-47.4	0.0	7.4	0.0	1.0	-14.7
1063	17543657.98	4928983.14	0.10	2	D	A	41.1	-46.0	0.0	7.4	0.0	1.0	-13.3
1073	17543650.84	4929014.66	0.10	1	D	A	41.1	-45.0	0.0	14.7	0.0	1.0	-19.6
1089	17543651.27	4929012.80	0.10	1	D	A	41.1	-42.9	0.0	15.2	0.0	1.0	-18.0
1097	17543651.76	4929010.64	0.10	1	D	A	41.1	-43.5	0.0	11.4	0.0	1.0	-14.8
1106	17543652.33	4929008.11	0.10	1	D	A	41.1	-41.7	0.0	12.5	0.0	1.0	-14.1
1109	17543644.85	4929041.14	1.52	0	D	A	39.3	-26.9	0.0	8.5	0.0	0.0	3.9
1143	17543655.72	4928993.14	1.52	0	D	A	39.3	-31.8	0.0	12.5	0.0	0.0	-5.0
1145	17543655.99	4928991.92	1.52	1	D	A	39.3	-40.5	0.0	19.3	0.0	1.0	-21.5
1149	17543656.67	4928988.94	1.52	1	D	A	39.3	-43.6	0.0	16.9	0.0	1.0	-22.2
1150	17543657.04	4928987.28	1.52	1	D	A	39.3	-45.1	0.0	16.7	0.0	1.0	-23.5
1156	17543657.68	4928984.47	1.52	2	D	A	39.3	-47.4	0.0	8.3	0.0	1.0	-17.4
1160	17543656.98	4928987.59	1.52	2	D	A	39.3	-44.6	0.0	15.6	0.0	1.0	-21.9
1164	17543657.39	4928985.73	1.52	2	D	A	39.3	-44.8	0.0	15.6	0.0	1.0	-22.2
1166	17543657.71	4928984.33	1.52	2	D	A	39.3	-47.4	0.0	8.3	0.0	1.0	-17.4
1170	17543657.98	4928983.14	1.52	2	D	A	39.3	-46.0	0.0	8.4	0.0	1.0	-16.0

Road, TNM, Name: "Cars", ID: "ROAD"													
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	Ad	Aair	Agr	Afol	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
1172	17543650.84	4929014.66	1.52	1	D	A	39.3	-45.0	0.0	15.0	0.0	1.0	-21.7
1174	17543651.27	4929012.80	1.52	1	D	A	39.3	-42.9	0.0	16.9	0.0	1.0	-21.5
1175	17543651.76	4929010.64	1.52	1	D	A	39.3	-43.5	0.0	13.2	0.0	1.0	-18.4
1176	17543652.33	4929008.11	1.52	1	D	A	39.3	-41.7	0.0	14.4	0.0	1.0	-17.9

Receiver
Name: R2
ID:
X: 17543862.61 m
Y: 4929002.75 m
Z: 1.50 m

vert. Area Source, ISO 9613, Name: "N Wall", ID: "NORTH"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
5	17543617.91	4928976.01	1.07	0	DEN	A	70.8	12.6	0.0	3.0	0.0	58.8	0.1	-4.7	0.0	0.0	6.4	0.0	0.0	25.7
13	17543617.91	4928976.01	3.07	0	DEN	A	70.8	12.6	0.0	3.0	0.0	58.8	0.1	-4.0	0.0	0.0	5.4	0.0	0.0	26.1
20	17543617.91	4928976.01	4.07	0	DEN	A	70.8	12.6	0.0	3.0	0.0	58.8	0.1	-3.6	0.0	0.0	6.1	0.0	0.0	24.9
23	17543617.91	4928976.01	2.07	0	DEN	A	70.8	12.6	0.0	3.0	0.0	58.8	0.1	-4.4	0.0	0.0	6.0	0.0	0.0	25.8
47	17543617.91	4928976.01	0.29	0	DEN	A	70.8	10.1	0.0	3.0	0.0	58.8	0.1	-5.0	0.0	0.0	6.6	0.0	0.0	23.3

vert. Area Source, ISO 9613, Name: "S Wall", ID: "SOUTH"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
26	17543620.15	4928961.75	1.07	0	DEN	A	70.8	11.9	0.0	3.0	0.0	58.8	0.1	-4.7	0.0	0.0	0.0	0.0	0.0	31.4
33	17543620.15	4928961.75	2.07	0	DEN	A	70.8	11.9	0.0	3.0	0.0	58.8	0.1	-4.3	0.0	0.0	0.0	0.0	0.0	31.1
44	17543620.15	4928961.75	4.07	0	DEN	A	70.8	11.9	0.0	3.0	0.0	58.8	0.1	-3.6	0.0	0.0	0.0	0.0	0.0	30.4
45	17543620.15	4928961.75	3.07	0	DEN	A	70.8	11.9	0.0	3.0	0.0	58.8	0.1	-4.0	0.0	0.0	0.0	0.0	0.0	30.7
48	17543620.15	4928961.75	0.29	0	DEN	A	70.8	9.4	0.0	3.0	0.0	58.8	0.1	-4.9	0.0	0.0	0.0	0.0	0.0	29.3

Point Source, ISO 9613, Name: "HVAC", ID: "HVAC"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
46	17543612.70	4928967.17	5.57	0	DEN	500	85.0	0.0	0.0	0.0	0.0	59.0	0.5	4.9	0.0	0.0	0.0	0.0	0.0	20.6

vert. Area Source, ISO 9613, Name: "W Wall", ID: "WEST"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
49	17543610.64	4928967.70	4.81	0	DEN	A	70.8	2.6	0.0	3.0	0.0	59.1	0.1	-3.4	0.0	0.0	7.5	0.0	0.0	13.1
50	17543611.75	4928963.39	3.29	0	DEN	A	70.8	8.5	0.0	3.0	0.0	59.1	0.1	-4.0	0.0	0.0	7.0	0.0	0.0	20.1
51	17543612.63	4928959.95	2.07	0	DEN	A	70.8	-19.6	0.0	3.0	0.0	59.1	0.1	-4.4	0.0	0.0	3.4	0.0	0.0	-4.0
52	17543611.37	4928964.88	3.81	2	DEN	A	70.8	6.5	0.0	3.0	0.0	62.5	0.1	-4.4	0.0	0.0	10.2	0.0	77.3	-65.5
53	17543611.52	4928964.27	2.60	0	DEN	A	70.8	9.5	0.0	3.0	0.0	59.1	0.1	-4.2	0.0	0.0	7.7	0.0	0.0	20.6
54	17543612.63	4928959.95	1.07	0	DEN	A	70.8	-19.6	0.0	3.0	0.0	59.1	0.1	-4.7	0.0	0.0	3.6	0.0	0.0	-3.9
55	17543611.37	4928964.88	2.81	2	DEN	A	70.8	6.5	0.0	3.0	0.0	62.5	0.1	-4.6	0.0	0.0	11.1	0.0	76.6	-65.4
56	17543610.89	4928966.75	5.47	0	DEN	A	70.8	5.8	0.0	3.0	0.0	59.1	0.1	-3.2	0.0	0.0	6.6	0.0	0.0	17.0
57	17543611.99	4928962.43	3.95	0	DEN	A	70.8	7.1	0.0	3.0	0.0	59.1	0.1	-3.7	0.0	0.0	5.9	0.0	0.0	19.5
58	17543612.63	4928959.95	3.07	0	DEN	A	70.8	-19.6	0.0	3.0	0.0	59.1	0.1	-4.0	0.0	0.0	3.2	0.0	0.0	-4.2
59	17543611.59	4928964.01	4.50	2	DEN	A	70.8	4.3	0.0	3.0	0.0	62.5	0.1	-4.2	0.0	0.0	9.7	0.0	52.8	-42.9
60	17543611.25	4928965.33	5.97	0	DEN	A	70.8	8.3	0.0	3.0	0.0	59.1	0.1	-3.0	0.0	0.0	5.1	0.0	0.0	20.8
61	17543612.36	4928961.01	4.45	0	DEN	A	70.8	3.4	0.0	3.0	0.0	59.1	0.1	-3.6	0.0	0.0	4.2	0.0	0.0	17.4
62	17543612.63	4928959.95	4.07	0	DEN	A	70.8	-19.6	0.0	3.0	0.0	59.1	0.1	-3.7	0.0	0.0	2.4	0.0	0.0	-3.8
63	17543611.33	4928965.01	5.86	2	DEN	A	70.8	6.2	0.0	3.0	0.0	62.5	0.1	-3.9	0.0	0.0	7.7	0.0	79.5	-65.9
64	17543612.15	4928961.83	4.73	2	DEN	A	70.8	3.8	0.0	3.0	0.0	62.5	0.1	-4.2	0.0	0.0	7.7	0.0	54.2	-42.7
65	17543611.52	4928964.27	1.81	0	DEN	A	70.8	7.1	0.0	3.0	0.0	59.1	0.1	-4.5	0.0	0.0	7.9	0.0	0.0	18.2
66	17543611.37	4928964.88	2.03	2	DEN	A	70.8	4.1	0.0	3.0	0.0	62.5	0.1	-4.8	0.0	0.0	11.7	0.0	76.0	-67.6
67	17543609.71	4928971.55	3.29	0	DEN	A	70.8	6.1	0.0	3.0	0.0	59.1	0.1	-4.0	0.0	0.0	7.2	0.0	0.0	17.4
68	17543610.30	4928969.08	4.81	0	DEN	A	70.8	0.1	0.0	3.0	0.0	59.1	0.1	-3.4	0.0	0.0	7.0	0.0	0.0	11.1
69	17543609.83	4928971.05	2.60	0	DEN	A	70.8	7.1	0.0	3.0	0.0	59.1	0.1	-4.2	0.0	0.0	7.8	0.0	0.0	18.0
70	17543609.39	4928972.91	4.45	0	DEN	A	70.8	1.0	0.0	3.0	0.0	59.1	0.1	-3.6	0.0	0.0	6.7	0.0	0.0	12.4
71	17543609.98	4928970.44	5.97	0	DEN	A	70.8	5.8	0.0	3.0	0.0	59.1	0.1	-3.0	0.0	0.0	5.4	0.0	0.0	18.0
72	17543609.52	4928972.36	3.79	0	DEN	A	70.8	3.8	0.0	3.0	0.0	59.1	0.1	-3.8	0.0	0.0	6.2	0.0	0.0	15.9
73	17543610.11	4928969.89	5.31	0	DEN	A	70.8	4.3	0.0	3.0	0.0	59.1	0.1	-3.3	0.0	0.0	5.6	0.0	0.0	16.5
87	17543609.83	4928971.05	1.81	0	DEN	A	70.8	4.6	0.0	3.0	0.0	59.1	0.1	-4.5	0.0	0.0	8.1	0.0	0.0	15.5

Point Source, ISO 9613, Name: "Child - 5", ID: "TALK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
74	17543617.68	4928976.80	1.20	0	D	A	81.5	0.0	0.0	0.0	0.0	58.8	1.7	0.4	0.0	0.0	19.0	0.0	0.0	1.7

vert. Area Source, ISO 9613, Name: "N Window", ID: "NORTH"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
75	17543623.26	4928977.59	2.50	0	DEN	A	71.6	4.8	0.0	3.0	0.0	58.6	0.4	6.1	0.0	0.0	10.4	0.0	0.0	3.9
76	17543623.26	4928977.59	1.50	0	DEN	A	71.6	4.8	0.0	3.0	0.0	58.6	0.4	6.4	0.0	0.0	11.6	0.0	0.0	2.4
77	17543623.26	4928977.59	0.50	0	DEN	A	71.6	4.8	0.0	3.0	0.0	58.6	0.4	9.1	0.0	0.0	10.3	0.0	0.0	1.0

Point Source, ISO 9613, Name: "Child - 5", ID: "TALK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
78	17543609.95	4928968.65	1.20	0	D	A	81.5	0.0	0.0	0.0	0.0	59.1	1.7	0.9	0.0	0.0	21.9	0.0	0.0	-2.1

vert. Area Source, ISO 9613, Name: "N Window", ID: "NORTH"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
79	17543611.97	4928974.34	2.50	0	DEN	A	71.6	4.8	0.0	3.0	0.0	59.0	0.4	6.1	0.0	0.0	11.5	0.0	0.0	2.3
80	17543611.97	4928974.34	1.50	0	DEN	A	71.6	4.8	0.0	3.0	0.0	59.0	0.4	6.6	0.0	0.0	12.2	0.0	0.0	1.2
81	17543611.97	4928974.34	0.50	0	DEN	A	71.6	4.8	0.0	3.0	0.0	59.0	0.4	11.8	0.0	0.0	8.9	0.0	0.0	-0.8

Point Source, ISO 9613, Name: "Male - 40", ID: "TALK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
82	17543611.74	4928975.12	1.50	0	D	A	83.6	0.0	0.0	0.0	0.0	59.0	1.0	2.6	0.0	0.0	14.8	0.0	0.0	6.2

Point Source, ISO 9613, Name: "Male - 40", ID: "TALK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
83	17543609.03	4928972.49	1.50	0	D	A	83.6	0.0	0.0	0.0	0.0	59.1	1.0	2.8	0.0	0.0	19.0	0.0	0.0	1.7

vert. Area Source, ISO 9613, Name: "S Window", ID: "SOUTH"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
84	17543624.35	4928962.75	2.82	0	DEN	A	71.6	3.6	0.0	3.0	0.0	58.7	0.4	6.7	0.0	0.0	0.0	0.0	0.0	12.4

vert. Area Source, ISO 9613, Name: "S Window", ID: "SOUTH"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
85	17543620.07	4928961.71	2.82	0	DEN	A	71.6	3.6	0.0	3.0	0.0	58.8	0.4	6.8	0.0	0.0	0.0	0.0	0.0	12.2

vert. Area Source, ISO 9613, Name: "S Window", ID: "SOUTH"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
86	17543615.75	4928960.65	2.82	0	DEN	A	71.6	3.6	0.0	3.0	0.0	59.0	0.4	6.8	0.0	0.0	0.0	0.0	0.0	12.1

vert. Area Source, ISO 9613, Name: "E Window", ID: "EAST"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
88	17543634.75	4928972.50	4.81	0	DEN	A	71.6	2.6	0.0	3.0	0.0	58.2	0.4	5.5	0.0	0.0	0.0	0.0	0.0	13.1
89	17543634.66	4928972.84	4.81	2	DEN	A	71.6	0.4	0.0	3.0	0.0	61.9	0.5	4.9	0.0	0.0	0.8	0.0	25.5	-18.7
90	17543634.90	4928971.97	4.81	2	DEN	A	71.6	-1.6	0.0	3.0	0.0	61.9	0.5	4.9	0.0	0.0	0.8	0.0	25.5	-20.7
91	17543634.70	4928972.70	4.81	2	DEN	A	71.6	1.4	0.0	3.0	0.0	61.9	0.5	4.9	0.0	0.0	0.0	0.0	31.0	-22.3
92	17543634.93	4928971.83	4.81	2	DEN	A	71.6	-3.7	0.0	3.0	0.0	61.9	0.5	4.9	0.0	0.0	0.0	0.0	31.0	-27.5
93	17543634.75	4928972.50	5.81	0	DEN	A	71.6	2.6	0.0	3.0	0.0	58.2	0.4	5.3	0.0	0.0	0.0	0.0	0.0	13.2
94	17543634.66	4928972.84	5.81	2	DEN	A	71.6	0.4	0.0	3.0	0.0	61.9	0.5	4.9	0.0	0.0	0.7	0.0	25.7	-18.8
95	17543634.90	4928971.97	5.81	2	DEN	A	71.6	-1.6	0.0	3.0	0.0	61.9	0.5	4.9	0.0	0.0	0.7	0.0	25.7	-20.8
96	17543634.70	4928972.70	5.81	2	DEN	A	71.6	1.4	0.0	3.0	0.0	61.9	0.5	4.9	0.0	0.0	0.0	0.0	31.1	-22.5
97	17543634.93	4928971.83	5.81	2	DEN	A	71.6	-3.7	0.0	3.0	0.0	61.9	0.5	4.9	0.0	0.0	0.0	0.0	31.1	-27.6
98	17543634.75	4928972.50	6.81	0	DEN	A	71.6	2.6	0.0	3.0	0.0	58.2	0.4	5.2	0.0	0.0	0.0	0.0	0.0	13.3
99	17543634.66	4928972.84	6.81	2	DEN	A	71.6	0.4	0.0	3.0	0.0	61.9	0.5	5.0	0.0	0.0	0.0	0.0	21.8	-14.1
126	17543634.75	4928972.50	4.29	0	DEN	A	71.6	-11.4	0.0	3.0	0.0	58.2	0.4	5.6	0.0	0.0	0.0	0.0	0.0	-1.0
127	17543634.66	4928972.84	4.29	2	DEN	A	71.6	-13.5	0.0	3.0	0.0	61.9	0.5	5.0	0.0	0.0	0.9	0.0	25.3	-32.6
128	17543634.90	4928971.97	4.29	2	DEN	A	71.6	-15.6	0.0	3.0	0.0	61.9	0.5	5.0	0.0	0.0	0.9	0.0	25.3	-34.6

vert. Area Source, ISO 9613, Name: "E Window", ID: "EAST"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
129	17543634.70	4928972.70	4.29	2	DEN	A	71.6	-12.6	0.0	3.0	0.0	61.9	0.5	5.0	0.0	0.0	0.0	0.0	30.8	-36.3
130	17543634.93	4928971.83	4.29	2	DEN	A	71.6	-17.7	0.0	3.0	0.0	61.9	0.5	5.0	0.0	0.0	0.0	0.0	30.8	-41.4

vert. Area Source, ISO 9613, Name: "W Window", ID: "WEST"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
100	17543612.13	4928961.47	5.81	0	DEN	A	71.6	2.5	0.0	3.0	0.0	59.1	0.4	5.6	0.0	0.0	0.0	0.0	0.0	12.0
101	17543612.05	4928961.80	4.81	0	DEN	A	71.6	0.4	0.0	3.0	0.0	59.1	0.4	5.8	0.0	0.0	4.7	0.0	0.0	4.9
102	17543612.27	4928960.94	4.81	0	DEN	A	71.6	-1.6	0.0	3.0	0.0	59.1	0.4	5.8	0.0	0.0	2.1	0.0	0.0	5.6
103	17543612.13	4928961.47	6.81	0	DEN	A	71.6	2.5	0.0	3.0	0.0	59.1	0.4	5.5	0.0	0.0	0.0	0.0	0.0	12.1
131	17543612.13	4928961.47	4.29	0	DEN	A	71.6	-11.5	0.0	3.0	0.0	59.1	0.4	6.0	0.0	0.0	6.1	0.0	0.0	-8.5

vert. Area Source, ISO 9613, Name: "W Window", ID: "WEST"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
104	17543609.65	4928971.56	5.81	0	DEN	A	71.6	2.5	0.0	3.0	0.0	59.1	0.4	5.4	0.0	0.0	0.5	0.0	0.0	11.7
105	17543609.65	4928971.56	6.81	0	DEN	A	71.6	2.5	0.0	3.0	0.0	59.1	0.4	5.3	0.0	0.0	0.3	0.0	0.0	12.0
106	17543609.65	4928971.56	4.81	0	DEN	A	71.6	2.5	0.0	3.0	0.0	59.1	0.4	5.5	0.0	0.0	9.5	0.0	0.0	2.6
132	17543609.65	4928971.56	4.29	0	DEN	A	71.6	-11.5	0.0	3.0	0.0	59.1	0.4	5.6	0.0	0.0	11.4	0.0	0.0	-13.4

Point Source, ISO 9613, Name: "Female - 40", ID: "TALK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
107	17543623.92	4928978.56	1.50	0	D	500	76.9	0.0	0.0	0.0	0.0	58.6	0.5	6.3	0.0	0.0	11.9	0.0	0.0	-0.4

Point Source, ISO 9613, Name: "Female - 40", ID: "TALK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
108	17543611.30	4928963.53	1.50	0	D	500	76.9	0.0	0.0	0.0	0.0	59.1	0.5	9.9	0.0	0.0	9.6	0.0	0.0	-2.3

Area Source, ISO 9613, Name: "ROOF N", ID: "ROOF"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
109	17543625.51	4928975.37	5.59	0	DEN	A	49.7	20.0	0.0	0.0	0.0	58.6	0.2	0.3	0.0	0.0	1.7	0.0	0.0	8.9
110	17543629.91	4928974.71	6.31	2	DEN	A	49.7	15.1	0.0	0.0	0.0	62.0	0.3	-0.4	0.0	0.0	0.0	0.0	36.3	-33.3
111	17543633.43	4928973.15	7.28	2	DEN	A	49.7	4.3	0.0	0.0	0.0	61.9	0.3	-0.2	0.0	0.0	3.7	0.0	37.5	-49.2
120	17543610.59	4928973.27	4.80	0	DEN	A	49.7	0.5	0.0	0.0	0.0	59.1	0.2	0.0	0.0	0.0	1.5	0.0	0.0	-10.6
121	17543618.23	4928971.79	6.23	0	DEN	A	49.7	17.4	0.0	0.0	0.0	58.8	0.2	0.4	0.0	0.0	0.9	0.0	0.0	6.8
122	17543618.78	4928969.62	7.21	0	DEN	A	49.7	15.5	0.0	0.0	0.0	58.8	0.2	0.5	0.0	0.0	0.3	0.0	0.0	5.3
123	17543612.17	4928967.16	7.56	0	DEN	A	49.7	-0.7	0.0	0.0	0.0	59.1	0.2	0.5	0.0	0.0	0.0	0.0	0.0	-10.8
124	17543630.90	4928972.01	7.47	2	DEN	A	49.7	4.3	0.0	0.0	0.0	62.0	0.3	-0.2	0.0	0.0	0.0	0.0	36.2	-44.2
125	17543622.29	4928970.65	7.14	2	DEN	A	49.7	15.7	0.0	0.0	0.0	62.2	0.3	-0.3	0.0	0.0	0.0	0.0	61.9	-58.6

Area Source, ISO 9613, Name: "ROOF S", ID: "ROOF"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
112	17543619.86	4928964.80	5.87	0	DEN	A	49.9	18.3	0.0	0.0	0.0	58.8	0.2	0.4	0.0	0.0	0.0	0.0	0.0	8.7
113	17543620.43	4928962.55	4.86	0	DEN	A	49.9	14.2	0.0	0.0	0.0	58.8	0.2	0.2	0.0	0.0	0.0	0.0	0.0	4.9
114	17543612.66	4928959.97	4.57	0	DEN	A	49.9	-39.9	0.0	0.0	0.0	59.1	0.2	0.0	0.0	0.0	1.5	0.0	0.0	-50.8
115	17543614.40	4928965.10	6.58	2	DEN	A	49.9	11.6	0.0	0.0	0.0	62.4	0.3	-0.4	0.0	0.0	3.8	0.0	37.5	-42.0
116	17543612.25	4928966.11	7.23	2	DEN	A	49.9	5.0	0.0	0.0	0.0	62.4	0.3	-0.3	0.0	0.0	0.0	0.0	62.3	-69.8
117	17543627.36	4928968.37	6.60	0	DEN	A	49.9	19.7	0.0	0.0	0.0	58.5	0.2	0.6	0.0	0.0	0.0	0.0	0.0	10.2
118	17543620.61	4928968.21	7.24	2	DEN	A	49.9	12.2	0.0	0.0	0.0	62.2	0.3	-0.3	0.0	0.0	0.0	0.0	36.3	-36.5
119	17543624.68	4928968.83	7.08	2	DEN	A	49.9	9.3	0.0	0.0	0.0	62.1	0.3	-0.3	0.0	0.0	3.7	0.0	37.4	-44.1

vert. Area Source, ISO 9613, Name: "E Door", ID: "EAST"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
133	17543634.73	4928972.48	0.63	0	DEN	A	53.5	2.4	0.0	3.0	0.0	58.2	0.5	-1.6	0.0	0.0	0.0	0.0	0.0	1.8
134	17543634.64	4928972.80	0.63	2	DEN	A	53.5	0.3	0.0	3.0	0.0	61.9	0.7	-2.0	0.0	0.0	4.3	0.0	19.6	-27.7
135	17543634.87	4928971.96	0.63	2	DEN	A	53.5	-1.7	0.0	3.0	0.0	61.9	0.7	-2.0	0.0	0.0	4.3	0.0	19.6	-29.7
136	17543634.68	4928972.67	0.63	2	DEN	A	53.5	1.3	0.0	3.0	0.0	61.9	0.7	-2.0	0.0	0.0	0.0	0.0	34.2	-37.1
137	17543634.90	4928971.83	0.63	2	DEN	A	53.5	-4.0	0.0	3.0	0.0	61.9	0.7	-2.0	0.0	0.0	0.0	0.0	34.2	-42.3
138	17543634.73	4928972.48	1.63	0	DEN	A	53.5	2.4	0.0	3.0	0.0	58.2	0.5	-0.8	0.0	0.0	0.0	0.0	0.0	1.0

vert. Area Source, ISO 9613, Name: "E Door", ID: "EAST"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
139	17543634.64	4928972.80	1.63	2	DEN	A	53.5	0.3	0.0	3.0	0.0	61.9	0.7	-1.2	0.0	0.0	4.2	0.0	19.5	-28.3
140	17543634.87	4928971.96	1.63	2	DEN	A	53.5	-1.7	0.0	3.0	0.0	61.9	0.7	-1.2	0.0	0.0	4.2	0.0	19.5	-30.3
141	17543634.68	4928972.67	1.63	2	DEN	A	53.5	1.3	0.0	3.0	0.0	61.9	0.7	-1.2	0.0	0.0	0.0	0.0	34.3	-37.9
142	17543634.90	4928971.83	1.63	2	DEN	A	53.5	-4.0	0.0	3.0	0.0	61.9	0.7	-1.2	0.0	0.0	0.0	0.0	34.3	-43.1
147	17543634.73	4928972.48	0.06	0	DEN	A	53.5	-6.5	0.0	3.0	0.0	58.2	0.5	-1.8	0.0	0.0	0.0	0.0	0.0	-6.8
148	17543634.64	4928972.80	0.06	2	DEN	A	53.5	-8.6	0.0	3.0	0.0	61.9	0.7	-2.1	0.0	0.0	4.3	0.0	19.8	-36.7
149	17543634.87	4928971.96	0.06	2	DEN	A	53.5	-10.6	0.0	3.0	0.0	61.9	0.7	-2.1	0.0	0.0	4.3	0.0	19.8	-38.7
150	17543634.68	4928972.67	0.06	2	DEN	A	53.5	-7.6	0.0	3.0	0.0	61.9	0.7	-2.1	0.0	0.0	0.0	0.0	34.2	-45.8
151	17543634.90	4928971.83	0.06	2	DEN	A	53.5	-12.8	0.0	3.0	0.0	61.9	0.7	-2.1	0.0	0.0	0.0	0.0	34.3	-51.1

vert. Area Source, ISO 9613, Name: "N Door", ID: "NORTH"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
143	17543617.73	4928976.02	1.63	0	DEN	A	53.5	2.6	0.0	3.0	0.0	58.8	0.5	-0.8	0.0	0.0	7.4	0.0	0.0	-6.9
144	17543617.73	4928976.02	0.63	0	DEN	A	53.5	2.6	0.0	3.0	0.0	58.8	0.5	-0.4	0.0	0.0	7.1	0.0	0.0	-7.0
152	17543617.73	4928976.02	0.06	0	DEN	A	53.5	-6.3	0.0	3.0	0.0	58.8	0.5	-0.3	0.0	0.0	7.0	0.0	0.0	-15.8

vert. Area Source, ISO 9613, Name: "W Door", ID: "WEST"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
145	17543610.84	4928966.45	0.63	0	DEN	A	53.5	2.5	0.0	3.0	0.0	59.1	0.5	-0.3	0.0	0.0	9.2	0.0	0.0	-9.5
146	17543610.84	4928966.45	1.63	0	DEN	A	53.5	2.5	0.0	3.0	0.0	59.1	0.5	-0.5	0.0	0.0	9.5	0.0	0.0	-9.6
153	17543610.84	4928966.45	0.06	0	DEN	A	53.5	-6.3	0.0	3.0	0.0	59.1	0.5	-0.3	0.0	0.0	9.1	0.0	0.0	-18.3

Road, TNM, Name: "Cars", ID: "ROAD"													
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	Ad	Aair	Agr	Afol	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
154	17543642.30	4929052.40	0.10	0	D	A	41.1	-23.0	0.0	6.6	0.0	0.0	11.5
155	17543651.45	4929011.97	0.10	0	D	A	41.1	-24.9	0.0	15.7	0.0	0.0	0.5
156	17543656.49	4928989.71	0.10	0	D	A	41.1	-27.5	0.0	6.5	0.0	0.0	7.1
157	17543657.12	4928986.94	0.10	1	D	A	41.1	-31.9	0.0	9.0	0.0	0.0	0.2
158	17543656.90	4928987.91	0.10	2	D	A	41.1	-37.4	0.0	17.7	0.0	1.0	-15.1
159	17543657.53	4928985.12	0.10	2	D	A	41.1	-40.7	0.0	16.5	0.0	1.0	-17.1
160	17543657.97	4928983.19	0.10	2	D	A	41.1	-40.1	0.0	10.3	0.0	1.0	-10.2
161	17543653.54	4929002.76	0.10	2	D	A	41.1	-44.6	0.0	12.8	0.0	1.0	-17.4
162	17543658.16	4928982.36	0.10	1	D	A	41.1	-44.9	0.0	6.6	0.0	0.0	-10.4
198	17543656.75	4928988.57	0.10	1	D	A	41.1	-30.1	0.0	9.2	0.0	0.0	1.7
223	17543656.95	4928987.70	0.10	2	D	A	41.1	-37.3	0.0	17.7	0.0	1.0	-14.9
245	17543657.58	4928984.91	0.10	2	D	A	41.1	-41.0	0.0	16.5	0.0	1.0	-17.4
268	17543657.99	4928983.11	0.10	2	D	A	41.1	-40.4	0.0	10.3	0.0	1.0	-10.6
287	17543652.59	4929006.97	0.10	2	D	A	41.1	-42.8	0.0	16.9	0.0	1.0	-19.5
301	17543653.18	4929004.34	0.10	2	D	A	41.1	-37.0	0.0	12.2	0.0	1.0	-9.1
331	17543642.30	4929052.40	1.52	0	D	A	39.3	-23.0	0.0	7.2	0.0	0.0	9.1
347	17543651.45	4929011.97	1.52	0	D	A	39.3	-24.9	0.0	16.9	0.0	0.0	-2.5
363	17543656.49	4928989.71	1.52	0	D	A	39.3	-27.5	0.0	7.0	0.0	0.0	4.8
411	17543657.12	4928986.94	1.52	1	D	A	39.3	-31.9	0.0	10.3	0.0	0.0	-2.9
432	17543656.90	4928987.91	1.52	2	D	A	39.3	-37.4	0.0	19.2	0.0	1.0	-18.4
442	17543657.53	4928985.12	1.52	2	D	A	39.3	-40.7	0.0	12.8	0.0	1.0	-15.3
453	17543657.97	4928983.19	1.52	2	D	A	39.3	-40.1	0.0	11.9	0.0	1.0	-13.7
471	17543653.54	4929002.76	1.52	2	D	A	39.3	-44.6	0.0	14.7	0.0	1.0	-21.1
513	17543658.16	4928982.36	1.52	1	D	A	39.3	-44.9	0.0	7.3	0.0	0.0	-12.9
574	17543656.75	4928988.57	1.52	1	D	A	39.3	-30.1	0.0	10.2	0.0	0.0	-1.0
593	17543656.95	4928987.70	1.52	2	D	A	39.3	-37.3	0.0	19.2	0.0	1.0	-18.2
603	17543657.58	4928984.91	1.52	2	D	A	39.3	-41.0	0.0	12.9	0.0	1.0	-15.6
614	17543657.99	4928983.11	1.52	2	D	A	39.3	-40.4	0.0	12.0	0.0	1.0	-14.1
642	17543652.59	4929006.97	1.52	2	D	A	39.3	-42.8	0.0	18.4	0.0	1.0	-22.9
661	17543653.18	4929004.34	1.52	2	D	A	39.3	-37.0	0.0	14.0	0.0	1.0	-12.7

Receiver
Name: R3
ID:
X: 17543383.20 m
Y: 4929083.47 m
Z: 1.50 m

vert. Area Source, ISO 9613, Name: "N Wall", ID: "NORTH"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
25	17543617.91	4928976.01	3.07	0	DEN	A	70.8	12.6	0.0	3.0	0.0	59.2	0.1	-4.1	0.0	0.0	0.0	0.0	0.0	31.1
40	17543624.57	4928977.92	3.07	1	DEN	A	70.8	6.2	0.0	3.0	0.0	59.5	0.1	-4.1	0.0	0.0	0.0	0.0	18.0	6.5
42	17543617.91	4928976.01	4.07	0	DEN	A	70.8	12.6	0.0	3.0	0.0	59.2	0.1	-3.7	0.0	0.0	0.0	0.0	0.0	30.7
189	17543624.57	4928977.92	4.07	1	DEN	A	70.8	6.2	0.0	3.0	0.0	59.5	0.1	-3.8	0.0	0.0	0.0	0.0	17.6	6.5
196	17543617.91	4928976.01	1.07	0	DEN	A	70.8	12.6	0.0	3.0	0.0	59.2	0.1	-4.7	0.0	0.0	0.0	0.0	0.0	31.7
200	17543624.57	4928977.92	1.07	1	DEN	A	70.8	6.2	0.0	3.0	0.0	59.5	0.1	-4.8	0.0	0.0	0.0	0.0	20.6	4.5
202	17543617.91	4928976.01	2.07	0	DEN	A	70.8	12.6	0.0	3.0	0.0	59.2	0.1	-4.4	0.0	0.0	0.0	0.0	0.0	31.4
207	17543624.57	4928977.92	2.07	1	DEN	A	70.8	6.2	0.0	3.0	0.0	59.5	0.1	-4.4	0.0	0.0	0.0	0.0	18.5	6.3
261	17543617.91	4928976.01	0.29	0	DEN	A	70.8	10.1	0.0	3.0	0.0	59.2	0.1	-5.0	0.0	0.0	0.0	0.0	0.0	29.5
264	17543624.57	4928977.92	0.29	1	DEN	A	70.8	3.8	0.0	3.0	0.0	59.5	0.1	-5.0	0.0	0.0	0.0	0.0	23.7	-0.8

vert. Area Source, ISO 9613, Name: "S Wall", ID: "SOUTH"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
212	17543620.15	4928961.75	1.07	0	DEN	A	70.8	11.9	0.0	3.0	0.0	59.5	0.1	-4.8	0.0	0.0	6.9	0.0	0.0	23.9
235	17543620.15	4928961.75	2.07	0	DEN	A	70.8	11.9	0.0	3.0	0.0	59.5	0.1	-4.4	0.0	0.0	6.6	0.0	0.0	23.9
240	17543620.15	4928961.75	4.07	0	DEN	A	70.8	11.9	0.0	3.0	0.0	59.5	0.1	-3.8	0.0	0.0	5.4	0.0	0.0	24.5
251	17543620.15	4928961.75	3.07	0	DEN	A	70.8	11.9	0.0	3.0	0.0	59.5	0.1	-4.1	0.0	0.0	6.2	0.0	0.0	23.9
289	17543620.15	4928961.75	0.29	0	DEN	A	70.8	9.4	0.0	3.0	0.0	59.5	0.1	-5.0	0.0	0.0	7.1	0.0	0.0	21.5

Point Source, ISO 9613, Name: "HVAC", ID: "HVAC"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
255	17543612.70	4928967.17	5.57	0	DEN	500	85.0	0.0	0.0	0.0	0.0	59.2	0.5	4.9	0.0	0.0	5.7	0.0	0.0	14.6

vert. Area Source, ISO 9613, Name: "W Wall", ID: "WEST"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
266	17543611.52	4928964.26	4.60	0	DEN	A	70.8	9.5	0.0	3.0	0.0	59.2	0.1	-3.5	0.0	0.0	0.0	0.0	0.0	27.5
269	17543611.52	4928964.26	2.60	0	DEN	A	70.8	9.5	0.0	3.0	0.0	59.2	0.1	-4.2	0.0	0.0	0.0	0.0	0.0	28.2
282	17543611.52	4928964.26	5.60	0	DEN	A	70.8	9.5	0.0	3.0	0.0	59.2	0.1	-3.2	0.0	0.0	0.0	0.0	0.0	27.2
286	17543611.52	4928964.26	3.60	0	DEN	A	70.8	9.5	0.0	3.0	0.0	59.2	0.1	-3.9	0.0	0.0	0.0	0.0	0.0	27.8
292	17543609.83	4928971.05	3.60	0	DEN	A	70.8	7.1	0.0	3.0	0.0	59.1	0.1	-3.8	0.0	0.0	0.0	0.0	0.0	25.5
295	17543609.83	4928971.05	2.60	0	DEN	A	70.8	7.1	0.0	3.0	0.0	59.1	0.1	-4.2	0.0	0.0	0.0	0.0	0.0	25.9
297	17543609.83	4928971.05	5.60	0	DEN	A	70.8	7.1	0.0	3.0	0.0	59.1	0.1	-3.1	0.0	0.0	0.0	0.0	0.0	24.8
299	17543609.83	4928971.05	4.60	0	DEN	A	70.8	7.1	0.0	3.0	0.0	59.1	0.1	-3.5	0.0	0.0	0.0	0.0	0.0	25.2
305	17543611.52	4928964.26	1.81	0	DEN	A	70.8	7.1	0.0	3.0	0.0	59.2	0.1	-4.5	0.0	0.0	0.0	0.0	0.0	26.0
470	17543609.83	4928971.05	1.81	0	DEN	A	70.8	4.6	0.0	3.0	0.0	59.1	0.1	-4.5	0.0	0.0	0.0	0.0	0.0	23.7

Point Source, ISO 9613, Name: "Child - 5", ID: "TALK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
308	17543609.95	4928968.65	1.20	0	D	A	81.5	0.0	0.0	0.0	0.0	59.1	1.7	1.8	0.0	0.0	0.0	0.0	0.0	18.9
310	17543609.95	4928968.65	1.20	1	D	A	81.5	0.0	0.0	0.0	0.0	59.1	1.7	1.8	0.0	0.0	0.0	0.0	0.0	18.9

Point Source, ISO 9613, Name: "Child - 5", ID: "TALK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
313	17543617.68	4928976.80	1.20	0	D	A	81.5	0.0	0.0	0.0	0.0	59.2	1.8	1.8	0.0	0.0	0.0	0.0	0.0	18.8
314	17543617.68	4928976.80	1.20	1	D	A	81.5	0.0	0.0	0.0	0.0	59.3	1.8	1.8	0.0	0.0	17.8	0.0	0.0	1.0
316	17543617.68	4928976.80	1.20	1	D	A	81.5	0.0	0.0	0.0	0.0	59.3	1.8	1.8	0.0	0.0	0.0	0.0	0.0	18.8

vert. Area Source, ISO 9613, Name: "N Window", ID: "NORTH"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
337	17543611.97	4928974.34	0.50	0	DEN	A	71.6	4.8	0.0	3.0	0.0	59.1	0.4	12.1	0.0	0.0	0.0	0.0	0.0	7.8
340	17543611.97	4928974.34	2.50	0	DEN	A	71.6	4.8	0.0	3.0	0.0	59.1	0.4	7.1	0.0	0.0	0.0	0.0	0.0	12.8
354	17543611.97	4928974.34	1.50	0	DEN	A	71.6	4.8	0.0	3.0	0.0	59.1	0.4	9.3	0.0	0.0	0.0	0.0	0.0	10.5

Point Source, ISO 9613, Name: "Male - 40", ID: "TALK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
360	17543609.03	4928972.49	1.50	0	D	A	83.6	0.0	0.0	0.0	0.0	59.0	1.0	4.1	0.0	0.0	0.0	0.0	0.0	19.5
362	17543609.03	4928972.49	1.50	1	D	A	83.6	0.0	0.0	0.0	0.0	59.0	1.0	4.1	0.0	0.0	14.6	0.0	0.0	4.9
364	17543609.03	4928972.49	1.50	1	D	A	83.6	0.0	0.0	0.0	0.0	59.0	1.0	4.1	0.0	0.0	0.0	0.0	0.0	19.5

Point Source, ISO 9613, Name: "Male - 40", ID: "TALK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
366	17543611.74	4928975.12	1.50	0	D	A	83.6	0.0	0.0	0.0	0.0	59.1	1.0	4.1	0.0	0.0	0.0	0.0	0.0	19.4
368	17543611.74	4928975.12	1.50	1	D	A	83.6	0.0	0.0	0.0	0.0	59.1	1.0	4.1	0.0	0.0	13.9	0.0	0.0	5.5
370	17543611.74	4928975.12	1.50	1	D	A	83.6	0.0	0.0	0.0	0.0	59.1	1.0	4.1	0.0	0.0	0.0	0.0	0.0	19.4

vert. Area Source, ISO 9613, Name: "N Window", ID: "NORTH"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
389	17543623.26	4928977.59	1.50	0	DEN	A	71.6	4.8	0.0	3.0	0.0	59.4	0.4	9.4	0.0	0.0	0.0	0.0	0.0	10.2
415	17543623.26	4928977.59	1.50	1	DEN	A	71.6	4.8	0.0	3.0	0.0	59.4	0.4	9.4	0.0	0.0	7.7	0.0	0.0	2.6
420	17543623.67	4928977.71	1.50	1	DEN	A	71.6	3.4	0.0	3.0	0.0	59.5	0.4	9.4	0.0	0.0	0.0	0.0	1.8	6.8
425	17543623.52	4928977.67	1.50	2	DEN	A	71.6	4.0	0.0	3.0	0.0	59.6	0.4	9.4	0.0	0.0	7.6	0.0	5.9	-4.3
426	17543623.26	4928977.59	0.50	0	DEN	A	71.6	4.8	0.0	3.0	0.0	59.4	0.4	12.2	0.0	0.0	0.0	0.0	0.0	7.5
427	17543623.26	4928977.59	0.50	1	DEN	A	71.6	4.8	0.0	3.0	0.0	59.4	0.4	12.2	0.0	0.0	6.0	0.0	0.0	1.5
433	17543623.67	4928977.71	0.50	1	DEN	A	71.6	3.4	0.0	3.0	0.0	59.5	0.4	12.2	0.0	0.0	0.0	0.0	3.6	2.2
452	17543623.52	4928977.67	0.50	2	DEN	A	71.6	4.0	0.0	3.0	0.0	59.6	0.4	12.2	0.0	0.0	5.9	0.0	5.6	-5.2
455	17543623.26	4928977.59	2.50	0	DEN	A	71.6	4.8	0.0	3.0	0.0	59.4	0.4	7.1	0.0	0.0	0.0	0.0	0.0	12.5
456	17543623.26	4928977.59	2.50	1	DEN	A	71.6	4.8	0.0	3.0	0.0	59.4	0.4	7.1	0.0	0.0	8.2	0.0	0.0	4.2
466	17543623.67	4928977.71	2.50	1	DEN	A	71.6	3.4	0.0	3.0	0.0	59.5	0.4	7.1	0.0	0.0	0.0	0.0	1.3	9.6
468	17543623.52	4928977.67	2.50	2	DEN	A	71.6	4.0	0.0	3.0	0.0	59.6	0.4	7.1	0.0	0.0	8.2	0.0	5.9	-2.7

vert. Area Source, ISO 9613, Name: "S Window", ID: "SOUTH"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
473	17543615.75	4928960.65	2.82	0	DEN	A	71.6	3.6	0.0	3.0	0.0	59.4	0.4	6.8	0.0	0.0	8.2	0.0	0.0	3.4

vert. Area Source, ISO 9613, Name: "S Window", ID: "SOUTH"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
478	17543620.07	4928961.71	2.82	0	DEN	A	71.6	3.6	0.0	3.0	0.0	59.5	0.4	6.8	0.0	0.0	10.7	0.0	0.0	0.8

vert. Area Source, ISO 9613, Name: "S Window", ID: "SOUTH"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
500	17543624.35	4928962.75	2.82	0	DEN	A	71.6	3.6	0.0	3.0	0.0	59.6	0.4	6.8	0.0	0.0	11.0	0.0	0.0	0.4

vert. Area Source, ISO 9613, Name: "W Window", ID: "WEST"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
503	17543609.65	4928971.56	5.81	0	DEN	A	71.6	2.5	0.0	3.0	0.0	59.0	0.4	5.6	0.0	0.0	0.0	0.0	0.0	12.0
506	17543609.65	4928971.56	6.81	0	DEN	A	71.6	2.5	0.0	3.0	0.0	59.1	0.4	5.5	0.0	0.0	0.0	0.0	0.0	12.2
508	17543609.65	4928971.56	4.81	0	DEN	A	71.6	2.5	0.0	3.0	0.0	59.0	0.4	5.8	0.0	0.0	0.0	0.0	0.0	11.8
660	17543609.65	4928971.56	4.29	0	DEN	A	71.6	-11.5	0.0	3.0	0.0	59.0	0.4	6.0	0.0	0.0	0.0	0.0	0.0	-2.3

vert. Area Source, ISO 9613, Name: "W Window", ID: "WEST"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
517	17543612.13	4928961.47	6.81	0	DEN	A	71.6	2.5	0.0	3.0	0.0	59.3	0.4	5.5	0.0	0.0	0.0	0.0	0.0	11.9
520	17543612.13	4928961.47	5.81	0	DEN	A	71.6	2.5	0.0	3.0	0.0	59.3	0.4	5.6	0.0	0.0	0.0	0.0	0.0	11.8
524	17543612.13	4928961.47	4.81	0	DEN	A	71.6	2.5	0.0	3.0	0.0	59.3	0.4	5.9	0.0	0.0	0.0	0.0	0.0	11.6
526	17543612.13	4928961.47	4.81	1	DEN	A	71.6	2.5	0.0	3.0	0.0	59.3	0.4	5.9	0.0	0.0	0.0	0.0	0.0	11.5

vert. Area Source, ISO 9613, Name: "W Window", ID: "WEST"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
662	17543612.13	4928961.47	4.29	0	DEN	A	71.6	-11.5	0.0	3.0	0.0	59.3	0.4	6.0	0.0	0.0	0.0	0.0	0.0	-2.6
664	17543612.13	4928961.47	4.29	1	DEN	A	71.6	-11.5	0.0	3.0	0.0	59.3	0.4	6.0	0.0	0.0	2.1	0.0	0.0	-4.7
666	17543612.13	4928961.47	4.29	1	DEN	A	71.6	-11.5	0.0	3.0	0.0	59.3	0.4	6.0	0.0	0.0	0.0	0.0	0.0	-2.6

vert. Area Source, ISO 9613, Name: "E Window", ID: "EAST"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
532	17543634.75	4928972.50	4.81	0	DEN	A	71.6	2.6	0.0	3.0	0.0	59.8	0.4	5.9	0.0	0.0	10.2	0.0	0.0	0.8
535	17543634.75	4928972.50	5.81	0	DEN	A	71.6	2.6	0.0	3.0	0.0	59.8	0.4	5.6	0.0	0.0	8.8	0.0	0.0	2.5
562	17543634.75	4928972.50	6.81	0	DEN	A	71.6	2.6	0.0	3.0	0.0	59.8	0.4	5.5	0.0	0.0	6.1	0.0	0.0	5.3
671	17543634.75	4928972.50	4.29	0	DEN	A	71.6	-11.4	0.0	3.0	0.0	59.8	0.4	6.0	0.0	0.0	11.1	0.0	0.0	-14.2

Point Source, ISO 9613, Name: "Female - 40", ID: "TALK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
569	17543611.30	4928963.53	1.50	0	D	500	76.9	0.0	0.0	0.0	0.0	59.2	0.5	9.9	0.0	0.0	0.0	0.0	0.0	7.2
571	17543611.30	4928963.53	1.50	1	D	500	76.9	0.0	0.0	0.0	0.0	59.2	0.5	9.9	0.0	0.0	0.0	0.0	0.0	7.2

Point Source, ISO 9613, Name: "Female - 40", ID: "TALK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
573	17543623.92	4928978.56	1.50	0	D	500	76.9	0.0	0.0	0.0	0.0	59.4	0.5	9.9	0.0	0.0	0.0	0.0	0.0	7.1
579	17543623.92	4928978.56	1.50	1	D	500	76.9	0.0	0.0	0.0	0.0	59.4	0.5	9.9	0.0	0.0	7.5	0.0	0.0	-0.4
580	17543623.92	4928978.56	1.50	1	D	500	76.9	0.0	0.0	0.0	0.0	59.4	0.5	9.9	0.0	0.0	0.0	0.0	0.0	7.0
582	17543623.92	4928978.56	1.50	1	D	500	76.9	0.0	0.0	0.0	0.0	59.5	0.5	9.9	0.0	0.0	0.0	0.0	0.0	6.9
583	17543623.92	4928978.56	1.50	2	D	500	76.9	0.0	0.0	0.0	0.0	59.6	0.5	9.9	0.0	0.0	7.5	0.0	0.0	-0.6
591	17543623.92	4928978.56	1.50	2	D	500	76.9	0.0	0.0	0.0	0.0	59.6	0.5	9.9	0.0	0.0	0.0	0.0	0.0	6.9

Area Source, ISO 9613, Name: "ROOF N", ID: "ROOF"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
607	17543625.51	4928975.37	5.59	0	DEN	A	49.7	20.0	0.0	0.0	0.0	59.5	0.2	0.2	0.0	0.0	0.0	0.0	0.0	9.9
649	17543618.30	4928970.93	6.60	0	DEN	A	49.7	19.7	0.0	0.0	0.0	59.3	0.2	0.4	0.0	0.0	0.0	0.0	0.0	9.4

Area Source, ISO 9613, Name: "ROOF S", ID: "ROOF"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
617	17543613.77	4928961.61	5.15	0	DEN	A	49.9	9.9	0.0	0.0	0.0	59.3	0.2	0.1	0.0	0.0	2.2	0.0	0.0	-2.1
619	17543615.07	4928963.43	5.79	0	DEN	A	49.9	13.1	0.0	0.0	0.0	59.3	0.2	0.2	0.0	0.0	1.7	0.0	0.0	1.5
624	17543622.60	4928964.80	5.59	0	DEN	A	49.9	18.0	0.0	0.0	0.0	59.5	0.2	0.2	0.0	0.0	1.5	0.0	0.0	6.5
628	17543635.96	4928965.77	4.60	1	DEN	A	49.9	-10.4	0.0	0.0	0.0	62.5	0.3	-0.7	0.0	0.0	4.0	0.0	39.3	-65.9
639	17543627.36	4928968.37	6.60	0	DEN	A	49.9	19.7	0.0	0.0	0.0	59.6	0.2	0.4	0.0	0.0	0.0	0.0	0.0	9.4

vert. Area Source, ISO 9613, Name: "W Door", ID: "WEST"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
686	17543610.84	4928966.45	0.63	0	DEN	A	53.5	2.5	0.0	3.0	0.0	59.2	0.5	-0.3	0.0	0.0	0.0	0.0	0.0	-0.4
689	17543610.72	4928966.93	0.63	1	DEN	A	53.5	-1.0	0.0	3.0	0.0	59.2	0.5	-0.3	0.0	0.0	0.0	0.0	0.0	-3.9
697	17543610.94	4928966.06	0.63	1	DEN	A	53.5	-0.1	0.0	3.0	0.0	59.2	0.5	-0.3	0.0	0.0	0.0	0.0	0.0	-3.0
703	17543610.84	4928966.45	1.63	0	DEN	A	53.5	2.5	0.0	3.0	0.0	59.2	0.5	-0.5	0.0	0.0	0.0	0.0	0.0	-0.2
705	17543610.72	4928966.93	1.63	1	DEN	A	53.5	-1.0	0.0	3.0	0.0	59.2	0.5	-0.5	0.0	0.0	0.0	0.0	0.0	-3.7
711	17543610.94	4928966.06	1.63	1	DEN	A	53.5	-0.1	0.0	3.0	0.0	59.2	0.5	-0.5	0.0	0.0	0.0	0.0	0.0	-2.8
747	17543610.84	4928966.45	0.06	0	DEN	A	53.5	-6.3	0.0	3.0	0.0	59.2	0.5	-0.3	0.0	0.0	0.0	0.0	0.0	-9.2
757	17543610.72	4928966.93	0.06	1	DEN	A	53.5	-9.8	0.0	3.0	0.0	59.2	0.5	-0.3	0.0	0.0	0.0	0.0	0.0	-12.7
762	17543610.94	4928966.06	0.06	1	DEN	A	53.5	-8.9	0.0	3.0	0.0	59.2	0.5	-0.3	0.0	0.0	0.0	0.0	0.0	-11.8

vert. Area Source, ISO 9613, Name: "N Door", ID: "NORTH"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
716	17543617.73	4928976.02	0.63	0	DEN	A	53.5	2.6	0.0	3.0	0.0	59.2	0.5	-0.3	0.0	0.0	0.0	0.0	0.0	-0.4
721	17543617.73	4928976.02	0.63	1	DEN	A	53.5	2.6	0.0	3.0	0.0	59.2	0.5	-0.3	0.0	0.0	11.0	0.0	0.0	-11.4
724	17543617.73	4928976.02	1.63	0	DEN	A	53.5	2.6	0.0	3.0	0.0	59.2	0.5	-0.5	0.0	0.0	0.0	0.0	0.0	-0.2
727	17543617.73	4928976.02	1.63	1	DEN	A	53.5	2.6	0.0	3.0	0.0	59.2	0.5	-0.5	0.0	0.0	10.6	0.0	0.0	-10.8
767	17543617.73	4928976.02	0.06	0	DEN	A	53.5	-6.3	0.0	3.0	0.0	59.2	0.5	-0.3	0.0	0.0	0.0	0.0	0.0	-9.3

vert. Area Source, ISO 9613, Name: "N Door", ID: "NORTH"																			
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
769	17543617.73	4928976.02	0.06	1	DEN	A	53.5	-6.3	0.0	3.0	0.0	59.2	0.5	-0.3	0.0	0.0	11.3	0.0	0.0	-20.6

vert. Area Source, ISO 9613, Name: "E Door", ID: "EAST"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
738	17543634.73	4928972.48	0.63	0	DEN	A	53.5	2.4	0.0	3.0	0.0	59.8	0.5	-0.3	0.0	0.0	9.3	0.0	0.0	-10.4
741	17543634.73	4928972.48	1.63	0	DEN	A	53.5	2.4	0.0	3.0	0.0	59.8	0.5	-0.5	0.0	0.0	9.6	0.0	0.0	-10.5
773	17543634.73	4928972.48	0.06	0	DEN	A	53.5	-6.5	0.0	3.0	0.0	59.8	0.5	-0.4	0.0	0.0	9.3	0.0	0.0	-19.2

Road, TNM, Name: "Cars", ID: "ROAD"													
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	Ad	Aair	Agr	Afol	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
779	17543647.34	4929030.15	0.10	0	D	A	41.1	-21.8	0.0	-1.8	0.0	0.0	21.1
807	17543649.65	4929019.91	0.10	1	D	A	41.1	-29.0	0.0	6.0	0.0	0.0	6.1
823	17543657.51	4928985.24	0.10	1	D	A	41.1	-35.9	0.0	10.3	0.0	1.0	-6.2
852	17543648.94	4929023.06	0.10	1	D	A	41.1	-30.1	0.0	6.2	0.0	0.0	4.8
973	17543650.57	4929015.86	0.10	1	D	A	41.1	-34.8	0.0	10.4	0.0	0.0	-4.1
976	17543647.34	4929030.15	1.52	0	D	A	39.3	-21.8	0.0	7.3	0.0	0.0	10.1
1000	17543649.65	4929019.91	1.52	1	D	A	39.3	-29.0	0.0	6.2	0.0	0.0	4.1
1017	17543657.51	4928985.24	1.52	1	D	A	39.3	-35.9	0.0	11.8	0.0	1.0	-9.5
1038	17543648.94	4929023.06	1.52	1	D	A	39.3	-30.1	0.0	6.3	0.0	0.0	2.9
1151	17543650.57	4929015.86	1.52	1	D	A	39.3	-34.8	0.0	11.1	0.0	0.0	-6.7

APPENDIX C: REFERENCES

1. Ministry of the Environment, “Publication NPC-300, Environmental Noise Guideline – Stationary and Transportation Sources – Approval and Planning,” August 2013.

2. Cadna/A Computer Aided Noise Abatement, Version 2024. MR2

3. Pearsons K.S., Bennett R.L., & Fidell S. (1977). *Speech levels in various noise environments* (Report No. EPA-600/l-77-025). Washington, DC. 20460. US Environmental Protection Agency.