



EDWARD DUGGER + ASSOCIATES, P.A.
Consultants in Architectural Acoustics

Date: 25 May 2018

To: Thomas R. Mooney, Director
City of Miami Beach Planning Department
1700 Convention Center Drive, 2nd Floor
Miami Beach, Florida 33139

From: Sam Shroyer, ASA
Edward Dugger, FAIA ASA NCAC INCE

Re: **Acoustic Study – City of Miami Beach Peer Review Response**
Coco Bambu
955 Alton Road
Miami Beach, Florida 33139
ED+A 18986

Edward Dugger + Associates, P.A. (ED+A) submitted an Acoustic Study to the City of Miami Beach Planning Department on March 19, 2018 in conjunction with Coco Bambu's request for a Conditional Use Permit for an Entertainment License at 955 Alton Road. This Study was reviewed by the Arpeggio Acoustic Consulting, LLC (Arpeggio), who subsequently provided comments in the *Sound Study Peer Review for Proposed Indoor Entertainment at 955 Alton Road* document dated April 16, 2018.

ED+A have prepared this document to address specific comments and concerns detailed in the Peer Review for presentation to the Miami Beach Planning Board.

Please contact ED+A with any questions, comments, or concerns.

Regards,

A handwritten signature in black ink that reads 'Sam Shroyer'.

Sam Shroyer, ASA
Consultant

A handwritten signature in black ink that reads 'Edward Dugger'.

Edward Dugger, FAIA ASA NCAC INCE
Principal



Entertainment Hours

Arpeggio has requested that the ending time for indoor entertainment be specified. ED+A have confirmed that the Applicant is requesting Indoor Entertainment up to 11:00 p.m. Sunday through Wednesday and 1:00 a.m. Thursday through Saturday.

Additional Residences to Southeast

ED+A concur that there are additional residences to the southeast that could also be affected by entertainment at the restaurant and are also in agreement with Arpeggio that the potential for impact at this location is similar to that of 1000 Lenox Avenue. Therefore, both of these properties will be considered in any acoustical evaluation moving forward.

Low-Frequency Concerns

Initially, no plans or specifications detailing the supplemental audio system were provided by the Applicant, but ED+A have since received an equipment list and audio system plans for both floors (attached). While it is not clear which of the listed items is used to control the sound level and frequency content of the system's output, the system itself is separated into eight different "zones" which would be controlled independently of one another. All but two zones (Zone 5 and Zone 7) are comprised of Niles CM7BG In-Ceiling Background Speakers, which are designed to provide music at background levels. Zone 5 and Zone 7, located around the bar area on the first and second floors, respectively, include surface mounted speakers which would presumably be used for entertainment purposes.

During entertainment, it is crucial that the sound levels in the different zones be maintained in a way which would not result in excessive sound levels near the restaurant's perimeter by using the ceiling speakers to "distribute" the sound evenly throughout the space. The signal processing equipment included in the audio system should be configured in a way which will limit the low-frequency sound output of the system, particularly the surface mounted speakers as they will likely be the primary speakers used for entertainment.

ED+A agree that the impact of low-frequency sound to the nearby residences is mostly undefinable at this point and concur with Arpeggio that additional site sound testing would be effective in determining appropriate interior sound levels so as not to affect nearby properties, with special attention paid to low-frequency "bass" noise.

Coco Bambu Restaurant

RFP- Audio/Video/IP Phone/Surveillance Cameras/Automation/Lighting Automation/Data Wiring

Audio & Video System

System will require (4) 20amp dedicated outlets for the rack equipment.

- (09) SAM UN50J5500- Samsung 50" LED TV
- (09) PN MFP300 -Panamax Plasma Surge Protector
- (03) PL SUA751PU- Peerless Ultra Slim Articulating Wall Arm for 37" to 55"
- (06) PL SF640- Peerless Industries 23"-46" Universal Flat Wall Mount
- (01) EPS 1945W- Epson Towerlike 1945W Projector 4200 Lumens
- (01) PN MFP300- Panamax Plasma Surge Protector
- (01) VUT LECTRIC-II-123- Vutec Letric-II Motorized Screen with Trap Door / HDTV Format / 123"Diagonal. VU Flex Pro
- (04) HDR Customer Supplied HAD Receiver
- (02) AppleTV New Generation / Streaming Content
- (66) NIL CM7BG- Niles CM7BG -7-inch 2-Way In-Ceiling Background Loudspeaker (CM7BG)
- (02) SAV SSA-3220- SAVANT 32X20 AUDIO MATRIX SWITCH
- (04) SAV AMP-2000 SAV AMP-2000 Class D amplifier delivering 16 channels of reliable, affordable, feature-rich amplification rated at 40 watts per channels at 8Ohms in a 3 rack-space metal enclosure.

AUTOMATION & RACK

- (01) SAV HST-SMRTD-20- SAVANT SMART HOST INCLUDING Smart Host hardware as well as the Smart 7.1 Runtime License.
- (01) SAV OSL-SAMARTPR - Savant Full Pro Operating System License
- (04) SAV SSC-0012-00- SmartControl 12 - (6 IR 2 RS232 2 GPIO and 2 Relay)
- (01) SAV SMS-102A- Media Server (2-Source)
- (02) iPad MINI- 16GB Apple pad Mini 16GB
- (02) iPad MINI- IMPORT STAND CHARGER
- (01) Miscellaneous Analog Line Level Audio wall jacks for DJ Mac/PC Sound
- (01) SAV SSP-06004- SAVANT 4X4 HDMI CONFIGURATION (2 ADDITIONAL INPUT AND OUTPUT CARDS CAN BE INSTALLED)
- (02) SAV VOM-30D4- Savant Digital Video Output Module / 4 HDMI
- (01) SAV VIM-30D4- Savant Digital Video Input Module / 4 HDMI
- (25) AUQ PEARL 2M- Audio Pearl HAD 2m
- (02) PRO PCTFAR42- Proponent Rack 42 Space With Active Rack Cooling, Lock and Casters
- (02) PN M4320-PRO- Panamax Pro Series Programmable Power Management 20 AMP
- (01) PN MB1500 -Panamax Power Conditioner / UPS
- (01) PAK P8 8 Port Power Distribution Unit: 2 Outlets with individual power control. Boot Sequence Capable Remote Power Cycling 1U Standard Rack Mount

SURVEILLANCE SYSTEM

- (06) 3 MP, dome type, Network IP Camera, 3.6mm Fixed Lens, Indoor/Outdoor IP66 Rated, PoE, IR
- (01) 3 MP, bullet type, Network IP Camera, 3.6mm Fixed Lens, Indoor/Outdoor IP66 Rated, PoE, IR
- (04) 1 MP bullet type, Network IP Camera, 3.6mm Fixed Lens, Indoor/Outdoor IP66 Rated, PoE, IR (Walkins Coolers)
- (09) 2 MP bullet type, Network IP Camera, 3.6mm Fixed Lens, Indoor/Outdoor IP66 Rated, PoE, IR
- (50) 2 MP dome type, Network IP Camera, 3.6mm Fixed Lens, Indoor/Outdoor IP66 Rated, PoE, IR

NV - 5 units of 16 Channels each

(05) ACE NVR163MP-C8 Acegear NVR Real Time 16Ch. NVR, 8x PoE, 128Mbps, Onvif

(02) PAK S24P Pakedge 24 Port Gigabit Switch w/ 24 Port PoE

(10) ACE HD 6TB-SV WD Purple 6TB Surveillance HDD, 6 Gb/s, Intellipower, 64MB Cache

******Phone System******

(06) Trunk Port with Caller ID

(16) Digital Extensions

(04) Channel Voicemail & Automated

(16) PAN KX-DT343- Panasonic 24 Button 3-Line Blacklist LCD Display Digital Telephone

(04) PAN KX-NT343-B Panasonic VIP Phone / 24 Button / 3 Line LCD / Black or White

(04) Miscellaneous Power Supply

(03) PAN KX-T0155 -Panasonic 2 Channel Cell Station

(04) PAN KXT7694- Panasonic Wireless Phone

Installation Labor

POS & Network

(01) PAK K60D-S24AV- Pakedge Fortinet VLAN Network Kit Preconfigured 24 Port Switch

(06) PAK W7 Enterprise-class, Ultra High Range & Throughput Wall Mount Wireless-N access point

(01) PAK W7O Enterprise-class, Ultra High Range & Throughput Wall Mount Outdoor access point

(03) PAK SW24-AV- Pakedge 24 Port Gigabit Managed Switch

(08) Set up Network Set up & Programming

****Lighting System****

(01) LUT RR-MAIN-REP-WH Lutron RadioRA 2 Main Repeater

(06) LUT RR-AUX-REP-WH Lutron RadioRA 2 Auxiliary Repeater

(36) LUT RRD-6NA-WH Lutron RadioRA 2 Phase Adaptive Dimmer / White

(14) LUT RRD-8ANS-WH Lutron RadioRA 2 8 A multi-location switch (requires neutral wire), all load types

(12) LUT LRF2-OCR2B-P-WH Lutron RadioRA 2 Ceiling Occupancy / Vacancy Sensor / White

Services

Installation Labor (Rewire)

Installation Labor (Trim/Final)

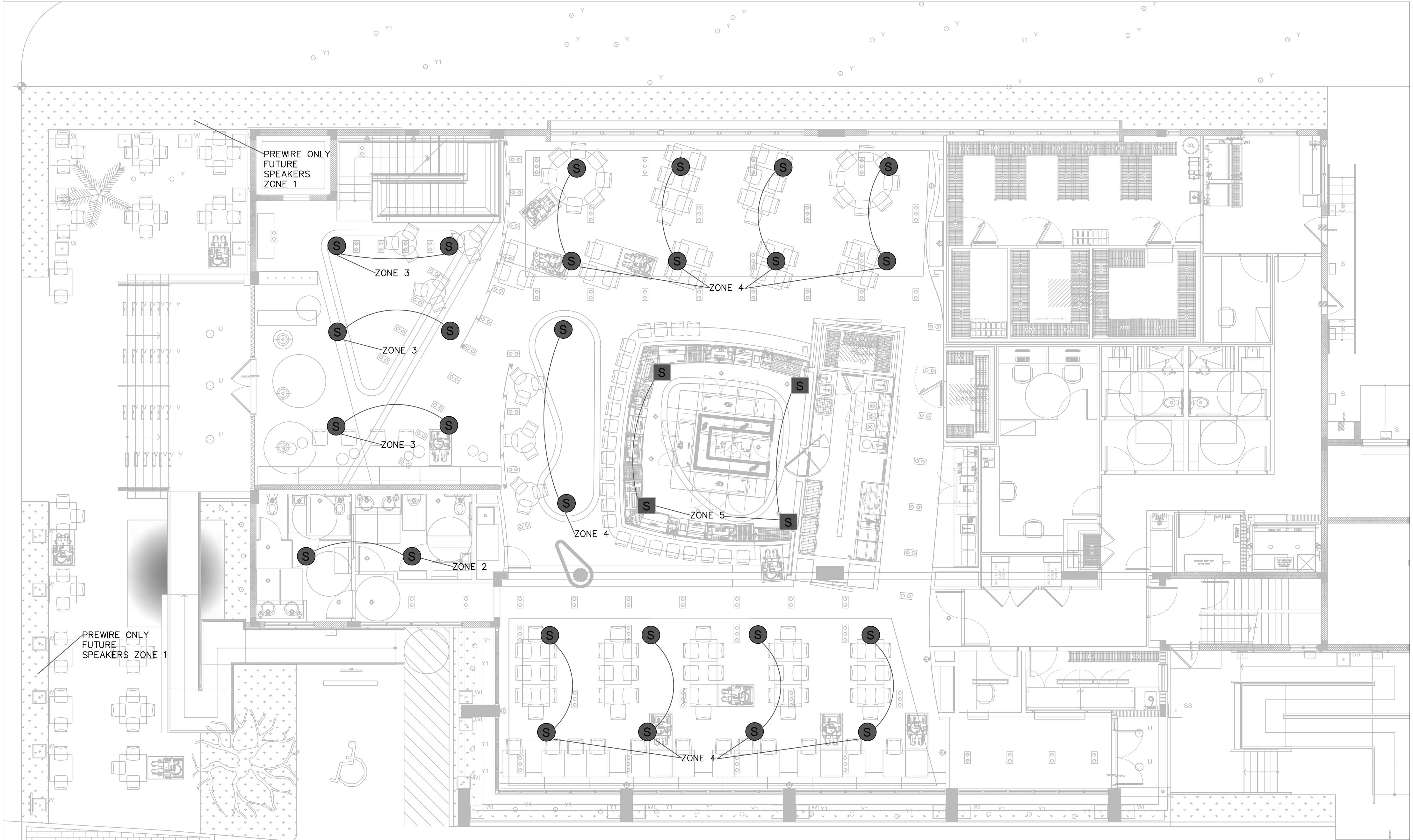
Savant Programming Fees

Lutron Programming Fees

1 Cables (Audio/Video/CAT 6 Data, etc), Connectors, Plugs, Etc.

1 Permit Fee

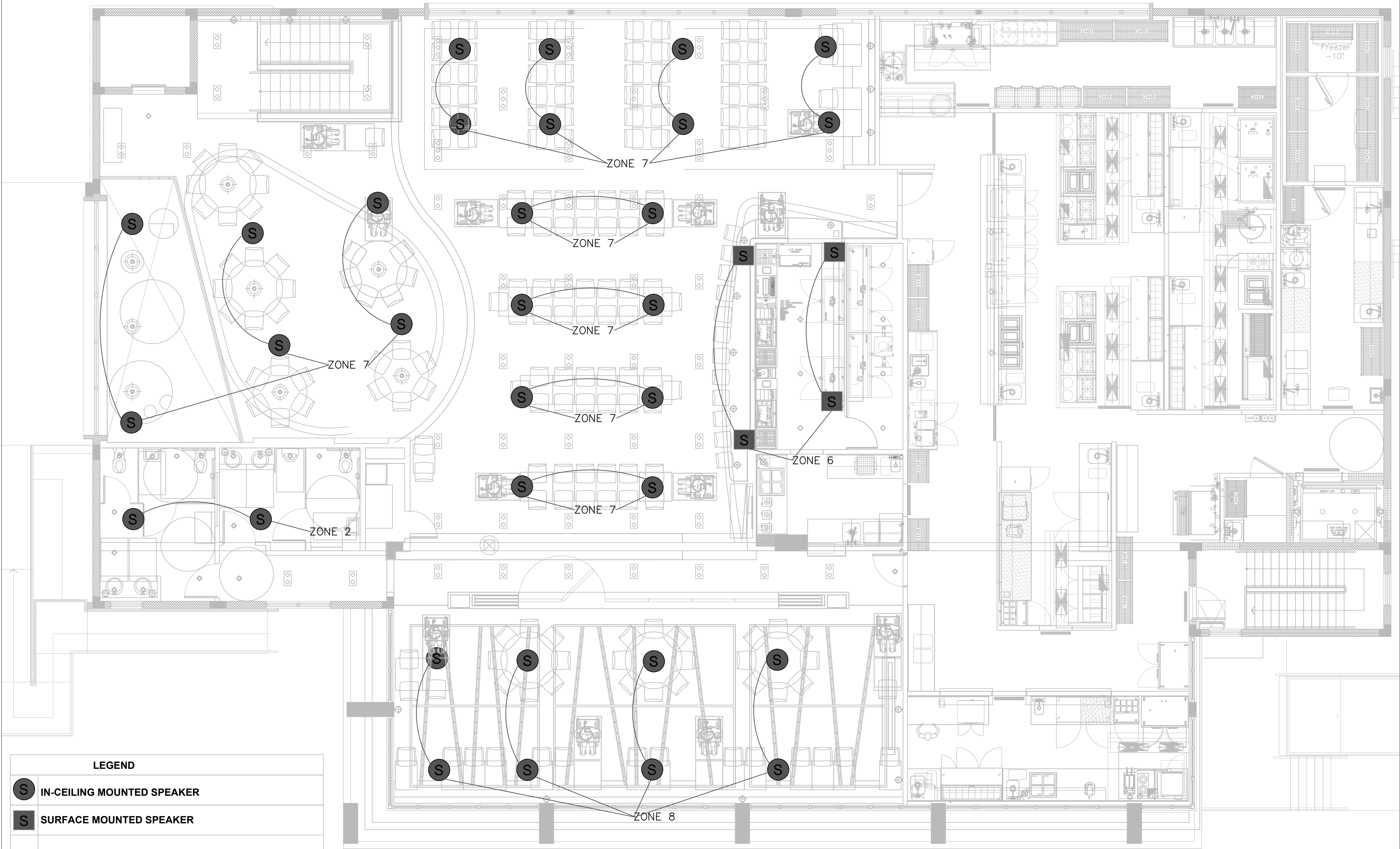
Sales Tax



FIRST FLOOR AUDIO SYSTEM

LEGEND	
	IN-CEILING MOUNTED SPEAKER
	SURFACE MOUNTED SPEAKER

- NOTES:
1. ALL EMT CONDUIT TO BE RUN TO OPEN CEILING JUNCTION BOXES OR BACK TO FIRST FLOOR RACK EQUIPMENT ROOM BY ELECTRICAL CONTRACTOR.
 2. ALL IN-CEILING SPEAKERS WILL HAVE ROUND TRIM, UNLESS OTHERWISE DETERMINED ON SITE.
 3. ALL CONDUITS, RACEWAYS, FLOOR SLEEVES, JUNCTION BOXES TO BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.
 4. ALL SPEAKER PAIR LOCATIONS REQUIRE (1)14/4 PLENUM WIRE HOMERUN TO THE FIRST FLOOR RACK EQUIPMENT ROOM.
 5. SPEAKER ZONES AND STEREO PAIR LOCATIONS SUBJECT TO CHANGE UPON SITE ALIGNMENT WITH LIGHTING FIXTURES & CEILING DETAILS.



LEGEND	
	IN-CEILING MOUNTED SPEAKER
	SURFACE MOUNTED SPEAKER

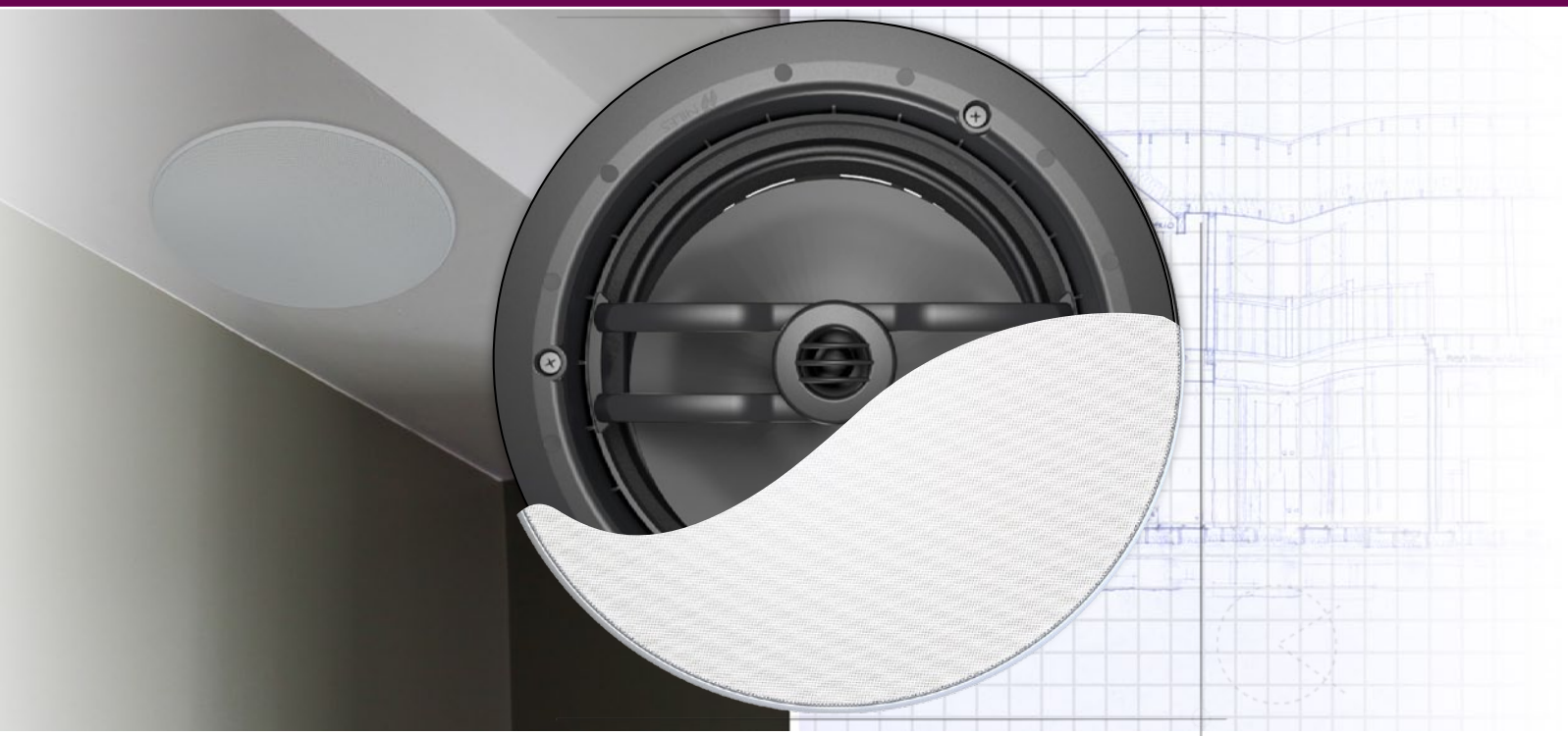
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SECOND FLOOR AUDIO SYSTEM



Designer Aesthetics
Audiophile Performance
Installation Ease

BACKGROUND LOUDSPEAKER SPECIFICATIONS SHEET



CM7BG

7" CEILING-MOUNT 2-WAY
BACKGROUND LOUDSPEAKER



Background music loudspeakers are a cost effective solution for providing music to a non-primary listening area. Polypropylene woofer cone and a 13mm Kaladex® tweeter provide a great cost/performance balance for this type of application.

FEATURES AND BENEFITS

- **Designer Aesthetics** Magnetically attached MicroThin™ speaker grilles ensure a clean, virtually invisible appearance that blends with the room's aesthetics. Optional square grilles provide added design flexibility.
- **Superior Sound Quality** Precision tuned and voiced fixed woofer ceiling-mount loudspeakers provide graduated performance for all types of applications. Whether you are listening to background talk radio or a complete orchestra, Niles CM series delivers optimal performance and reliability.
- **Installation Ease** Three patent-pending spring tensioned mounting clamps permit quick installation and compensate for uneven mounting surfaces and varied environmental conditions. Weather-resistant construction enables installation in moist areas, such as bathrooms or outdoors under eaves.
- **Install With Confidence** The best-built loudspeakers deserve the best protection—the Niles Lifetime Limited Warranty.

2-WAY CEILING-MOUNT LOUDSPEAKERS

CM7BG

7" 2-Way Background Loudspeaker

For use in non-primary listening areas



Packaged Individually with Round MicroPerf™ Grille

Stock Number

FG01655

FEATURES

- Integrated woofer/baffle design delivers greater low frequency response by employing a larger 7" woofer where competitive models of the same outer size employ only 6 1/2" woofers in the same size speaker installation
- Polypropylene cone is light, strong and well damped to provide "best in class" bass response
- Treated urethane surround increases sensitivity while preserving durability
- 13mm Kaladex® tweeter with fluid cooling provides wide dispersion for clear and detailed high frequencies
- Magnetically attached, rust-resistant grille covers install quickly and provide a low profile look
- Weather resistant construction reduces installation limitations and provides unique solutions in moist environments or outdoors under eaves



SPECIFICATIONS

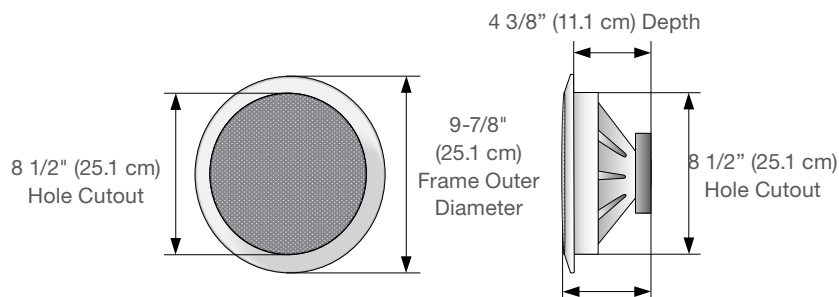
- Recommended Amplifier Power: 10 to 75 Watts
- Impedance: 8 ohm nominal; 6 ohm minimum
- Frequency Response: 58Hz to 20kHz +/-3dB
- Voice coil size: 3/4"

DIMENSIONS

- Frame Dimensions: 9 7/8 inches (25.1 cm)
- Hole cutout dimensions: 8 1/2 inches (21.6 cm)
- Depth behind ceiling (5/8" drywall): 3 3/4" (9.5 cm)
- Shipping Weight: 4.2 lbs (1.9 kg)

WARRANTY: Lifetime Limited

RELATED PRODUCTS	
	SG7C Square Loudspeaker Grille Stock Number: FG01645
	NCB7C New Construction Bracket Stock Number: FG01647



1-800-BUY-HIFI – www.nilesaudio.com

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