Supplemental Plan Check Correction Sheet for Sound Transmission (2020 LABC)

Plan Check / PCIS application number: __________________________________________________________

Job Address: ________________________________________________________________________________

P.C. Engineer: ___________________ (E-mail: firstname.lastname@lacity.org) Phone: ______________

Your feedback is important, please visit our website to complete a Customer Survey at www.ladbs.org/LADBSWeb/customer-survey.jsf.

If you have any questions or need clarification on any plan check matters, please contact your plan check engineer and/or his or her supervisor.

For instruction and other information, read the master plan check correction sheet attached.

Review the following checked Information Bulletins. Copies can be obtained from our web site (www.ladbs.org):

☐ P/BC 2017-69: Sound-Rated Partitions and Floor Ceiling Construction

☐ P/BC 2017-74: Sound Insulation Requirements for Noise Sensitive Structures Near LAX

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1. Wall and floor-ceiling assemblies separating dwelling units or guest rooms from each other and from public or service areas such as interior corridors, garages and mechanical spaces shall provide airborne sound insulation for walls, and both airborne and impact sound insulation for floor-ceiling assemblies. All such separating walls and floor-ceiling assemblies shall provide an airborne sound insulation equal to that required to meet a sound transmission class (STC) of 50 (Dn of 45 if field tested). All separating floor-ceiling shall provide impact sound insulation equal to that required to meet an impact insulation class (IIC) of 50 (FIIC of 45 if field tested). (1207.6.1, 1207.7, 1207.8)

EXCEPTION: Impact sound insulation is not required for floor-ceiling assemblies over nonhabitable rooms or spaces not designed to be occupied, such as garages, mechanical rooms or storage areas.

a. Identify all sound rated partitions on floor plans.

b. Provide construction details showing that sound rated wall assemblies are built to achieve an STC rating of 50. (1207.9)

c. Provide construction details showing that sound rated floor-ceiling assemblies are built to achieve an IIC and STC rating of at least 50. (1207.9)

d. Construction details shall reference the tested assembly used to achieve the stated STC and/or IIC rating. Tested assemblies listed in the following published documents are acceptable:

   i. Catalog of STC and IIC Ratings for Wall and Floor-Ceiling Assemblies as published by the California Department of Health Services’ Office of Noise Control

   ii. Fire Resistance Design Manual as published by the Gypsum Association

   iii. Information Bulletin P/BC 2020-069 as published by the Los Angeles Department of Building and Safety. (1207.9)

   e. Construction details based on tested assemblies conducted by a Los Angeles approved testing agency shall incorporate the corresponding report into the plans. STC ratings shall be tested in accordance with ASTM E90 and
E413. ICC ratings shall be tested in accordance with ASTM E492. (1207.7, 1207.8, 1207.9)

f. Add note to plans:

i. All rigid conduits, ducts, plumbing pipes, and appliance vents located in sound assemblies shall be isolated from the building construction by means of resilient sleeves, mounts, or a minimum 1/4" thick approved resilient material.

ii. Penetrations into sound rated partitions or floor-ceiling assemblies shall be sealed, lined, or insulated with an approved permanent resilient sealant.

iii. An approved permanent and resilient acoustical sealant shall be provided along the joint between the floor and the separation walls.

iv. Carpets or similar surface material which are part of the floor-ceiling assembly must be installed and inspected before the Certificate of Occupancy is issued and may be replaced only by other floor covering that provides the required impact sound insulation.

v. Metal ventilating and conditioned air ducts located in sound assemblies shall be lined. (Exception: Ducts serving only exit ways, kitchen cooking facilities, and bathrooms need not be lined).

vi. Mineral fiber insulation shall be installed in joist spaces whenever plumbing piping or ducts penetrates a floor-ceiling assembly or where such unit passes through the plane of the floor-ceiling assembly from within a wall. The insulation shall be installed to a point 12 inches beyond the pipe or duct. This requirement is not applicable to fire sprinkler piping, gas lines or electrical conduits.

vii. Electrical outlet boxes in opposite faces of separation walls shall be separated horizontally by 24 inches and note that back and sides of boxes will be sealed with 1/8" resilient sealant and backed by a minimum of 2 inch thick mineral fiber insulation (TV, telephone and intercom outlets must be installed in boxes accordingly).

viii. The entrance doors to residential units from interior corridors shall have a minimum STC rating of 26. Laminated 1-3/8” solid-core doors with resilient stops and gaskets or 18 gauge insulated steel slab doors with compression seals all around, including thresholds, are acceptable.

ix. Wall mounted lavatories and toilets are not permitted in sound rated partitions.

x. Electrical panels are not permitted in sound rated partitions.

(1207.8, IB P/BC 2020-069)

2. The building is wholly or partially located within the boundaries of the Los Angeles International Airport (LAX) Aircraft Noise Impact Area (ANIA) Map noise contours of 65 dB CNEL or higher. Provide acoustical analysis showing that the proposed design will achieve interior noise levels not exceeding 45 dB Ldn or 45 dB CNEL in any habitable room, or show compliance with prescriptive building standards of Information Bulletin P/BC 2020-074. (1207.11)

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