AREA VIII

PHYSICAL PLANT AND FACILITIES

S.8. THE BUILDINGS ARE WELL-VENTILATED AND LIGHTED

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BUILDING PLAN PRESIDENTIAL DECREE
(P.D.) NO. 1096 ADOPTING A
NATIONAL BUILDING CODE OF THE PHILIPPINES (NBCP) THEREBY
REVISING REPUBLIC ACT NUMBERED SIXTY-FIVE HUNDRED FORTY-ONE
(R.A. No. 6541)

CHAPTER 8 LIGHT AND VENTILATION SECTION 801. General Requirements of Light and Ventilation

(a) Subject to the provisions of the Civil Code of the Philippines on Easements of Light and View, and to the provisions of this part of the Code, every building shall be designed, constructed, and equipped to provide adequate light and ventilation.

(b) All buildings shall face a street or public alley or a private street which has been duly approved.

(c) No building shall be altered nor arranged so as to reduce the size of any room or the relative area of windows to less than that provided for buildings under this Code, or to create an additional room, unless such additional room conforms to the requirements of this Code. (d) No building shall be enlarged so that the dimensions of the required court or yard would be less than that prescribed for such building.

SECTION 802. Measurement of Site Occupancy

(a) The measurement of site occupancy or lot occupancy shall be taken at the ground level and shall be exclusive of courts, yards, and light wells.

(b) Courts, yards, and light wells shall be measured clear of all projections from the walls enclosing such wells or yards with the exception of roof leaders, wall copings, sills, or steel fire escapes not exceeding 1.20 meters in width.

SECTION 803. Percentage of Site Occupancy

(a) Minimum site occupancy shall be governed by the use, type of construction, and height of the building and the use, area, nature, and location of the site; and subject to the provisions of the local zoning requirements and in accordance with the rules and regulations promulgated by the Secretary.

SECTION 804. Size and Dimensions of Courts

(a) Minimum size of courts and their least dimensions shall be governed by the use, type of construction, and height of the building as provided in the rules and regulations promulgated by the Secretary, provided that the minimum horizontal dimension of court shall be not less than 2.00 meters.

(b) All inner courts shall be connected to a street or yard, either by a passageway with a minimum width of 1.20 meters or by a door through a room or rooms.

SECTION 805. Ceiling Heights

(a) Habitable rooms provided with artificial ventilation shall have ceiling heights not less than

2.40 meters measured from the floor to the ceiling; Provided that for buildings of more than onestorey, the minimum ceiling height of the first storey shall be 2.70 meters and that for the second storey 2.40 meters and succeeding storeys shall have an unobstructed typical head-room clearance of not less than 2.10 meters above the finished floor. Above stated rooms with a natural ventilation shall have ceiling heights not less than 2.70 meters.

(b) Mezzanine floors shall have a clear ceiling height not less than 1.80 meters above and below it.

SECTION 806. Size and Dimension of Rooms *The National Building Code (P.D. 1096)*

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Minimum sizes of rooms and their least horizontal dimensions shall be as follows:

1. Rooms for Human Habitations – 6.00 square meters with a least dimension of 2.00 meters;
2. Kitchens – 3.0 square meters with a least dimension of 1.50 meters; 3. Bath and toilet – 1.20 square meters with a least dimension of 0.90 meter.

SECTION 807. Air Space Requirements in Determining the Size of Rooms Minimum air space shall be provided as follows:

1. School Rooms – 3.00 cubic meters with 1.00 square meter of floor area per person; 2. Workshops, Factories, and Offices – 12.00 cubic meters of air space per person; 3. Habitable rooms – 14.00 cubic meters of air space per person.

SECTION 808. Window Openings

Every room intended for any use, not provided with artificial ventilation system as herein specified in this Code, shall be provided with a window or windows with a total free area of openings and equal to at least ten percent of the floor area of room, and such window shall open directly to a court, yard, public street or alley, or open water courses.

SECTION 809. Vent Shafts

(a) Ventilation or vent shafts shall have a horizontal cross-sectional area of not less than 0.10 square meter for every meter of height of shaft but in no case shall the area be less than 1.00 square meter. No vent shaft shall have its least dimension less than 600 millimeters.

(b) Skylights – Unless open to the outer air at the top for its full area, vent shaft shall be covered by a skylight having a net free area or fixed louver openings equal to the maximum required shaft area.

(c) Air ducts shall open to a street or court by a horizontal duct or intake at a point below the lowest window opening. Such duct or intake shall have a minimum unobstructed cross-sectional area of not less than 0.30 square meter with a minimum dimension of 300 millimeters. The openings to the duct or intake shall be not less than 300 millimeters above the bottom of the shaft and the street surface or level of court, at the respective ends of the duct or intake.

SECTION 810. Ventilation Skylights

Skylights shall have a glass area not less than that required for the windows that are

replaced. They shall be equipped with movable sashes or louvers with an aggregate net free area not less than that required for openable parts in the window that are replaced or provided with approved artificial ventilation of equivalent effectiveness. **SECTION 811. Artificial Ventilation**

(a) Rooms or spaces housing industrial or heating equipment shall be provided with artificial means of ventilation to prevent excessive accumulation of hot and/or polluted air. (b) Whenever artificial ventilation is required, the equipment shall be designed and constructed to meet the following minimum requirements in air changes:

1. For rooms entirely above grade and used for office, clerical, or administrative purposes, or as stores, sales rooms, restaurants, markets, factories, workshops, or machinery rooms, not less than three changes of air per hour shall be provided. *The National Building Code (P.D. 1096)*

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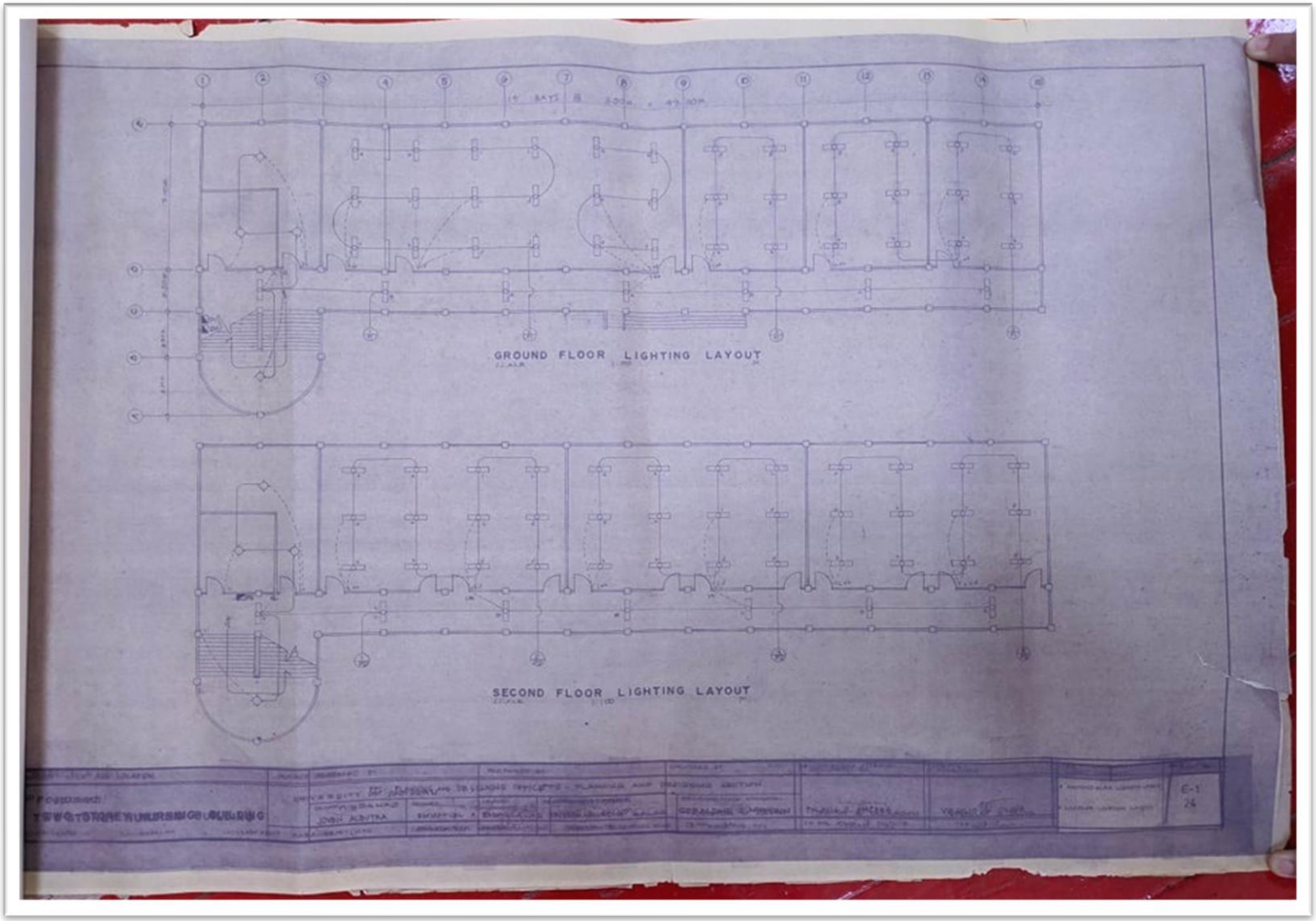
2. For rooms entirely above grade and used as bakeries, hotel or restaurant kitchens, laundries other than accessory to dwellings, and boiler rooms – not less than ten changes of air per hour shall be provided.

3. For auditorium and other rooms used for assembly purposes, with seats or other accommodations – not less than 0.30 cubic meter of air per minute shall be supplied for each person.

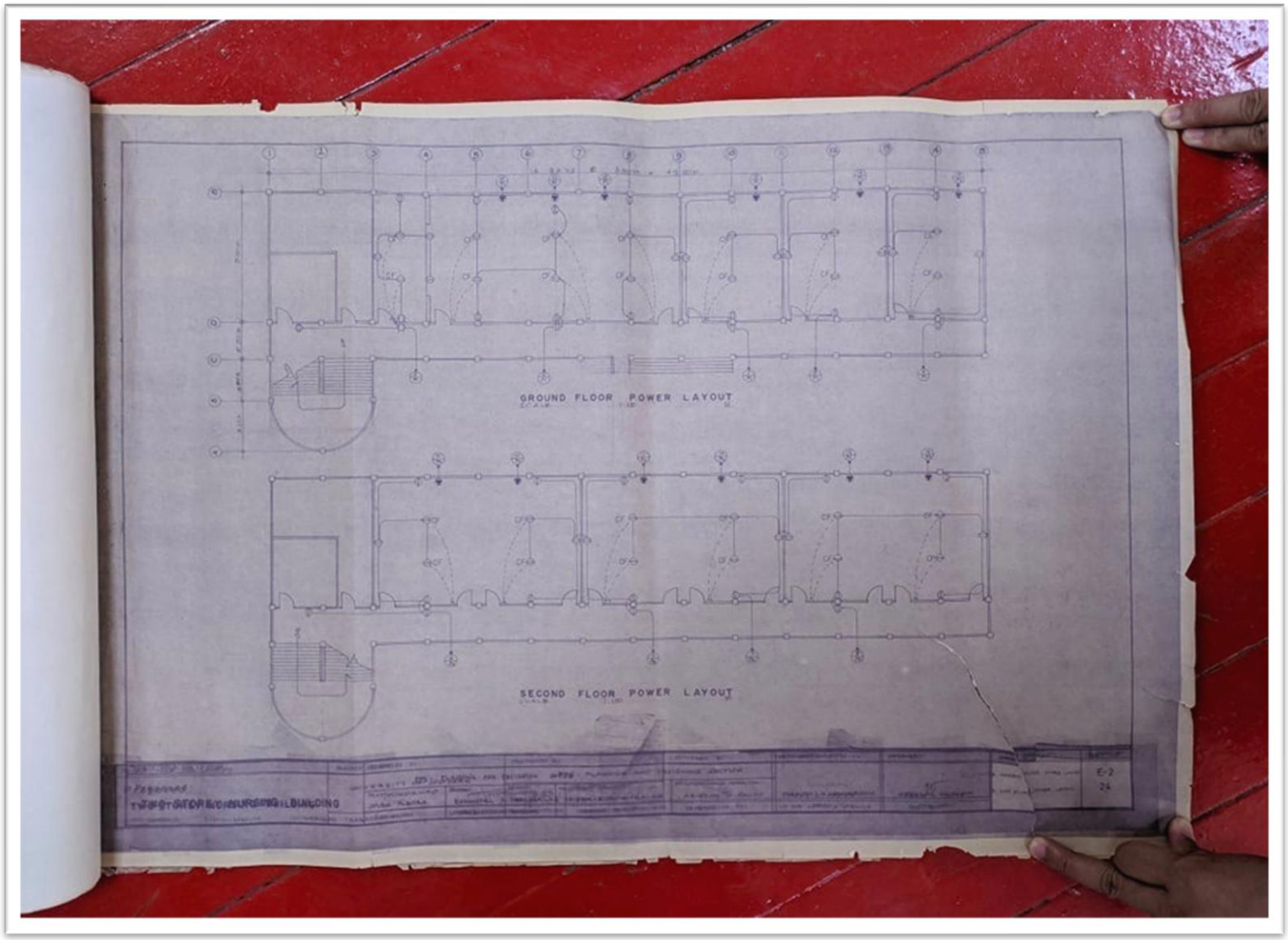
4. For wards and dormitories of institutional buildings – not less than 0.45 cubic meter of air per minute shall be supplied for each person accommodated.

5. For other rooms or spaces not specifically covered under this Section of the Code, applicable provisions of the Philippine Mechanical Engineering Code, shall be followed.

LIGHTING FLOOR LAYOUT



POWER LAYOUT



DOST BUILDING - EMERGENCY POWER GENERATOR

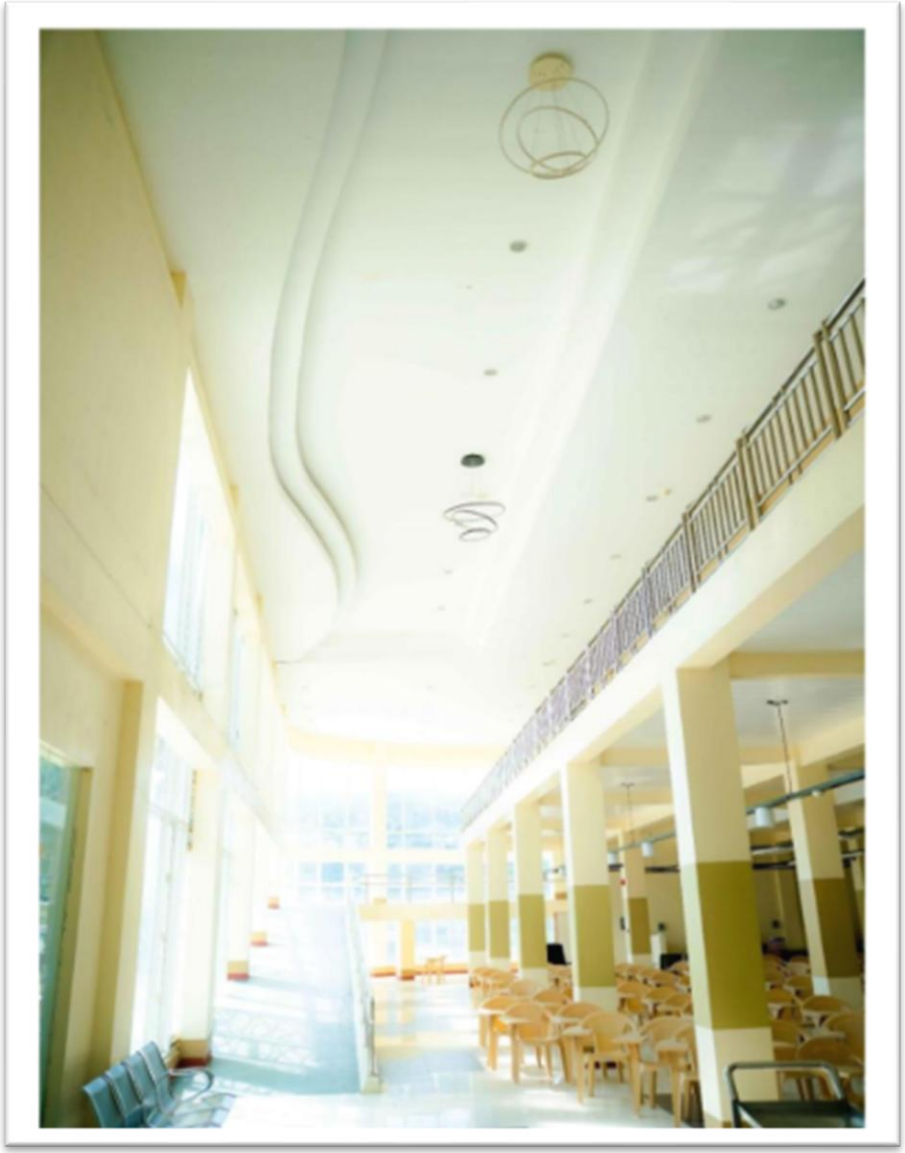


UNIVERSITY PORTABLE EMERGENCY POWER GENERATOR





HIGH CEILING BUILDING



CLASSROOMS ARE WELL VENTILATED

