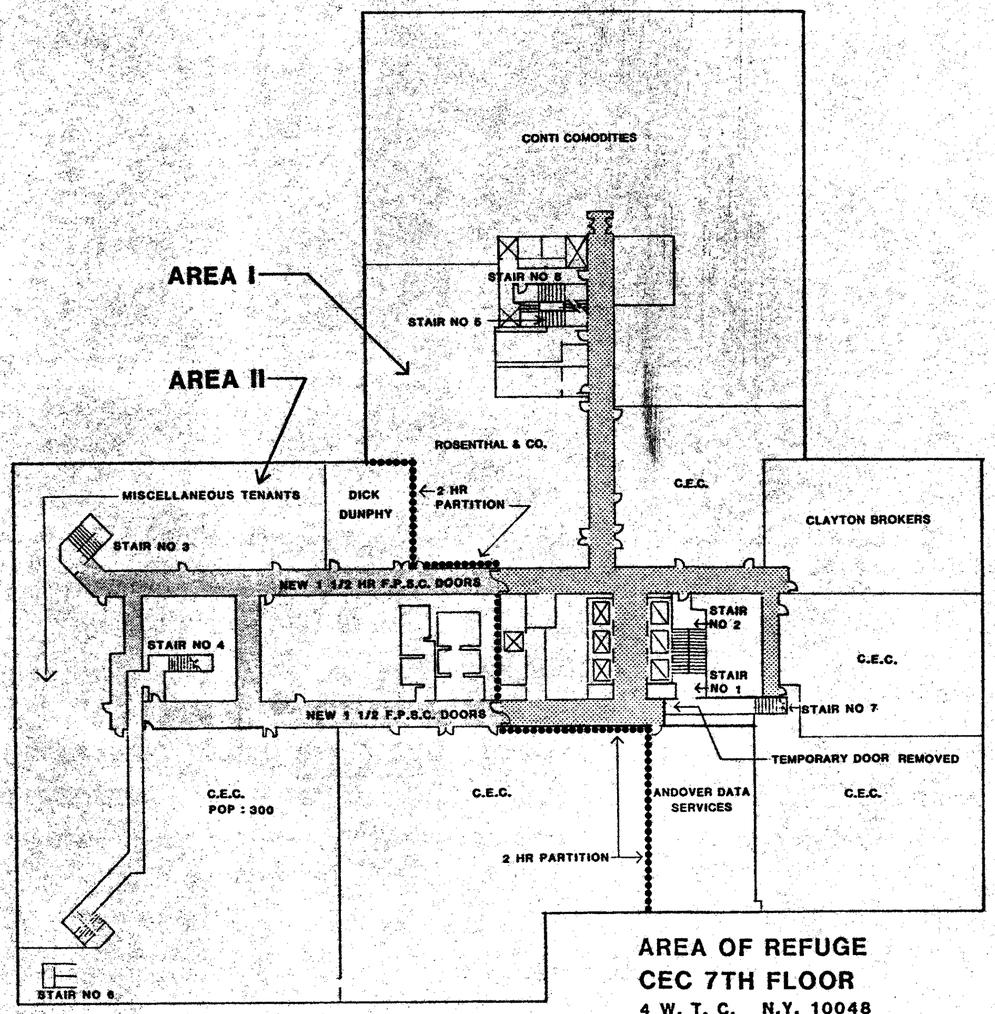


AREA OF REFUGE
CEC 7TH FLOOR
4 W. T. C. N.Y. 10048

ANALYSIS

A. Occupancy:

Area I - General Office Area = 37,000 square feet

Occupancy @ 1 person/100 square feet = 370 persons

Area II - CEC Write-Up = 6,760 square feet

Occupancy = 300 persons

General Office Area = 18,800 square feet

Occupancy @ 1 persons/100 square feet = 188 persons

Total Occupancy Area II = 488 persons

Total Occupancy 7th Floor = 858 persons

B. Exit Reduction (C26-603-3):

If one (1) area of refuge is provided, the number of persons for which vertical exits (stairs) must be provided can be reduced to 50% of the occupant load of the floor area. Therefore, persons requiring direct access to stairs are;

Area I = 370 persons x 50% = 185 persons

Area II = 488 persons x 50% = 244 persons

C. Stair Capacity:

Area I - 300 persons (Stairs 2 and 5)

Area II - 300 persons (Stairs 3 and 4)

D. Occupant Load (C26-604.56):

Areas of refuge must be adequate in size to hold the occupant load it receives from the area it serves, in addition to its own occupant load, allowing three (3) square feet per person.

Area I - Corridor Space = 2,777 square feet:

Normal Occupancy 370 persons

Maximum Refuge Occupancy 488 persons

Total 858 persons

Refuge area required = 858 persons x 3 square feet = 2,574 square feet.

Area II - Corridor Space = 2,694 square feet:

Normal Occupancy 488 persons

Maximum Refuge Occupancy 370 persons

Total 858 persons

Refuge Area required = 858 persons x 3 square feet = 2,574 square feet.

date	REVISIONS	no.
11/14/84	PER CITY REVIEW	A

CEC
COMMODITIES EXCHANGE CENTER, INC.
FOUR WORLD TRADE CENTER
NEW YORK, NEW YORK 10048

EGRESS UPGRADE
PHASE 1&2

TITLE
7TH FLOOR
AREA OF REFUGE PLAN

SONSIGNORE BRIGNATI & MAZZOTTA, P.C. ARCHITECTS
370 SEVENTH AVENUE NEW YORK, NEW YORK 10001 (212) 695 6800

project 1930
scale —
date 11/14/84
dwg. no. L-6