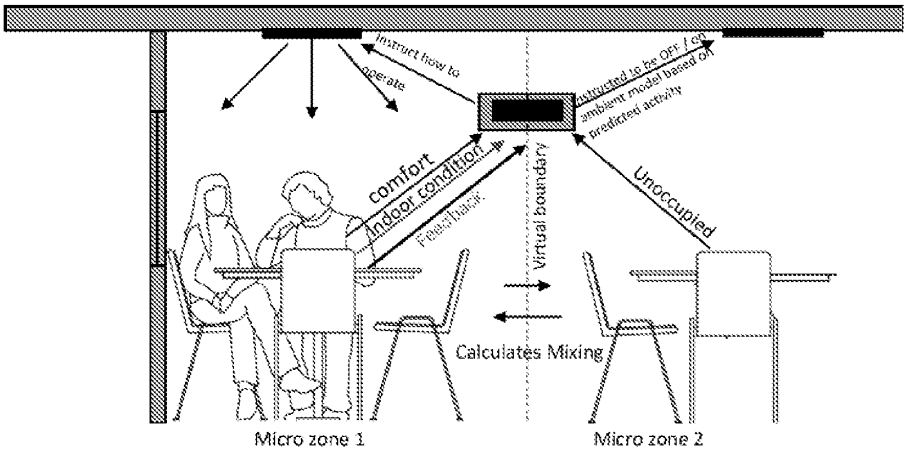


Figure 1

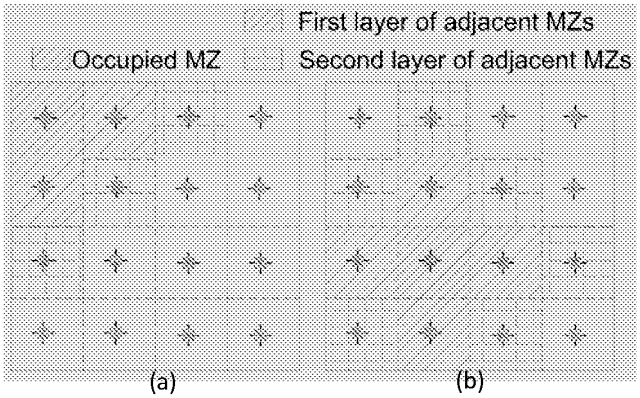
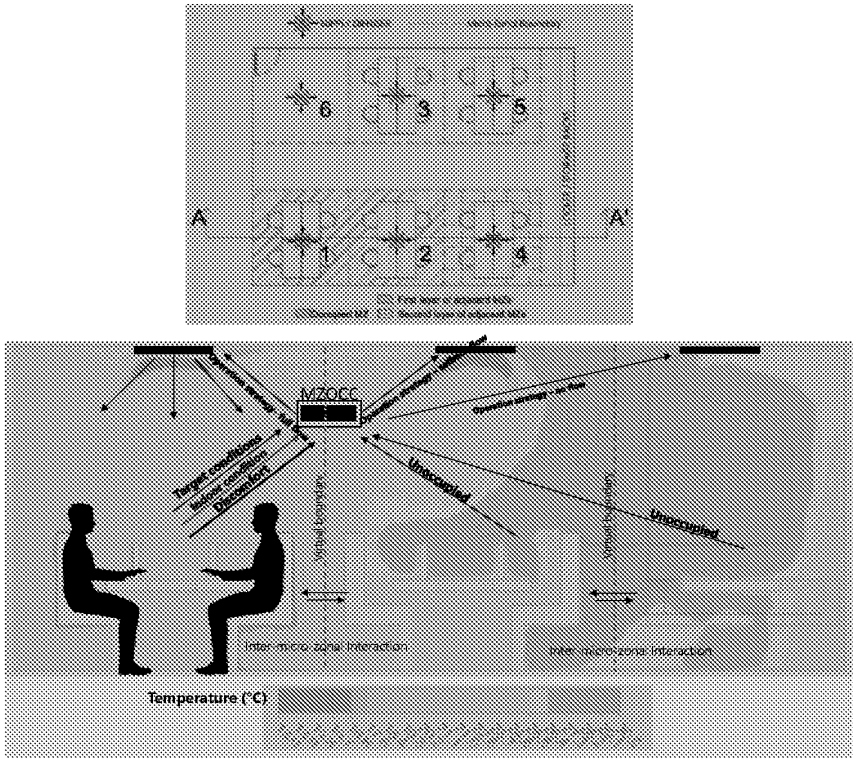


Figure 2



Section AA'

Figure 3

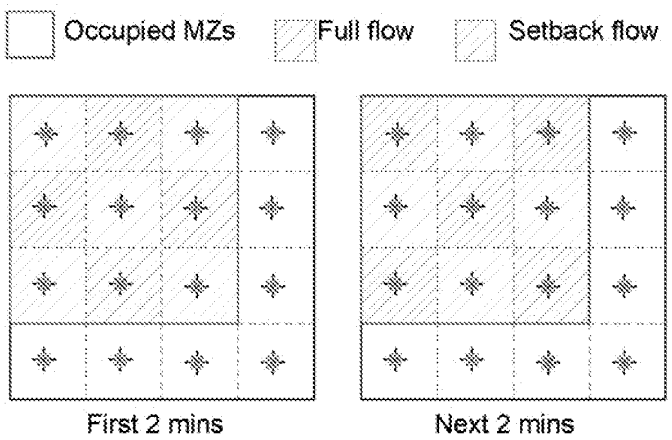


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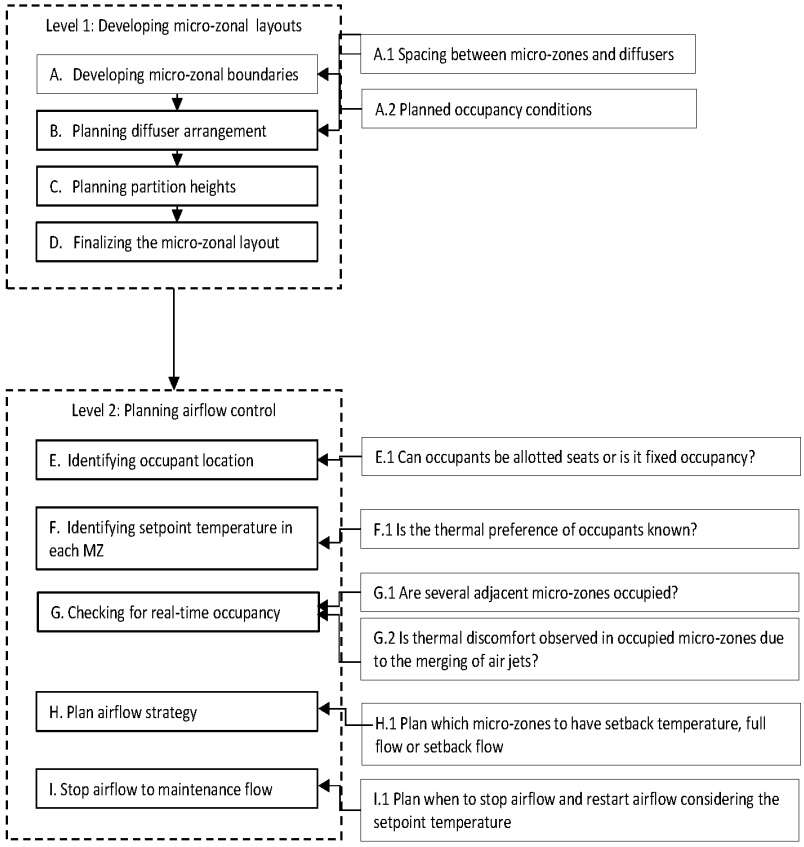

Level 1: Developing micro-zonal layouts
A. Developing micro-zonal boundaries
B. Planning diffuser arrangement
C. Planning partition heights
D. Finalizing the micro-zonal layout
A.1 Spacing between micro-zones and diffusers
A.2 Planned occupancy conditions
Level 2: Planning airflow control
E. Identifying occupant location
F. Identifying setpoint temperature in each MZ
G. Checking for real-time occupancy
H. Plan airflow strategy
I. Stop airflow to maintenance flow
E.1 Can occupants be allotted seats or is it fixed occupancy?
F.1 Is the thermal preference of occupants known?
G.1 Are several adjacent micro-zones occupied?
G.2 Is thermal discomfort observed in occupied micro-zones due to the merging of air jets?
H.1 Plan which micro-zones to have setback temperature, full flow or setback flow
I.1 Plan when to stop airflow and restart airflow considering the setpoint temperature

Figure 5

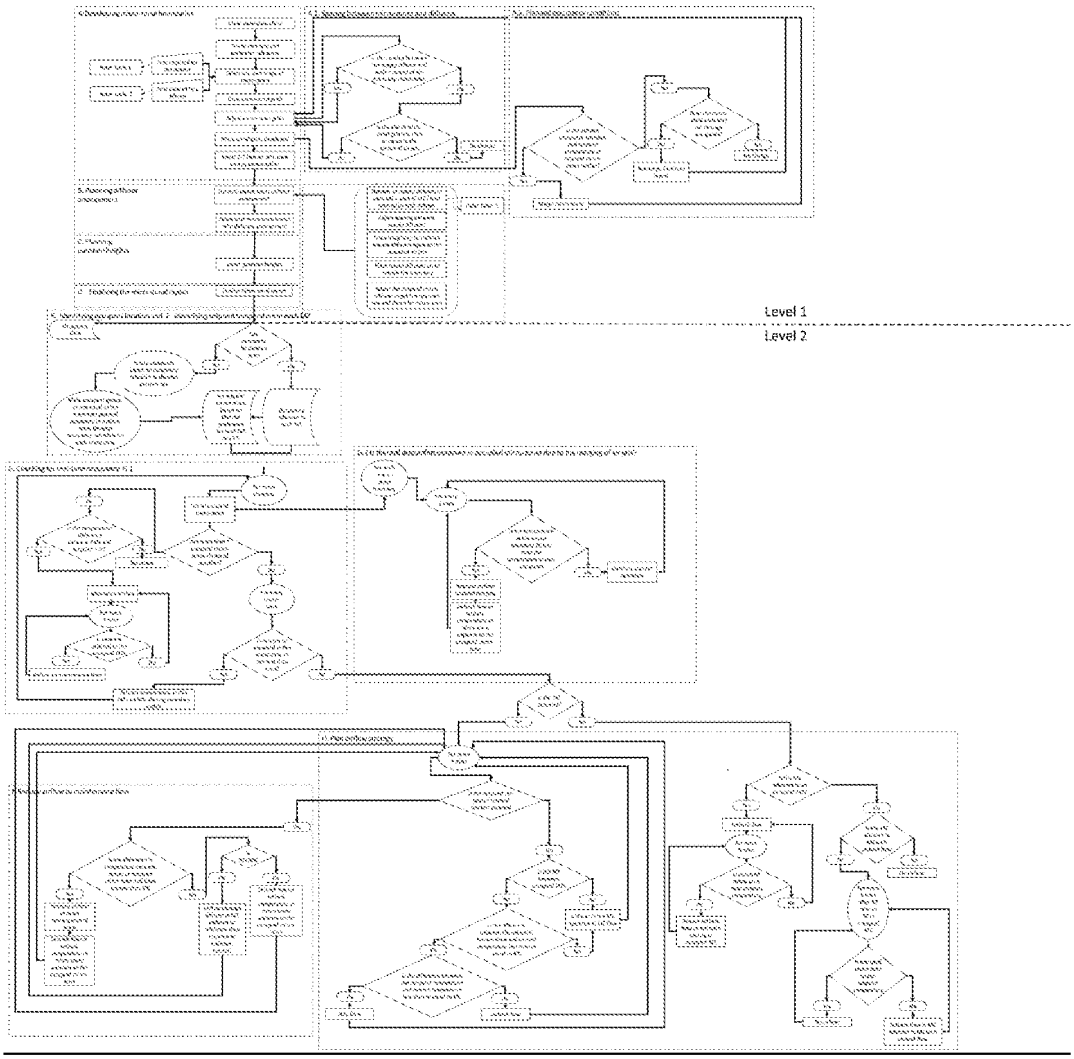


Figure 6

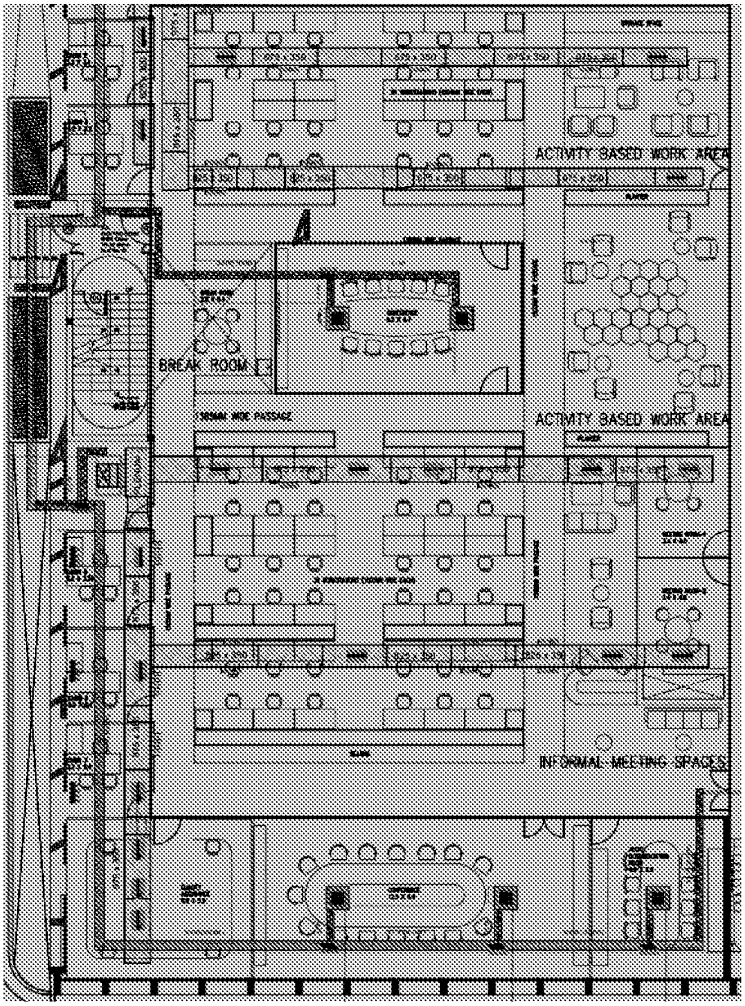

ACTIVITY BASED WORK AREA
BREAK ROOM
ACTIVITY BASED WORK AREA
INFORMAL MEETING SPACES

Figure 7a

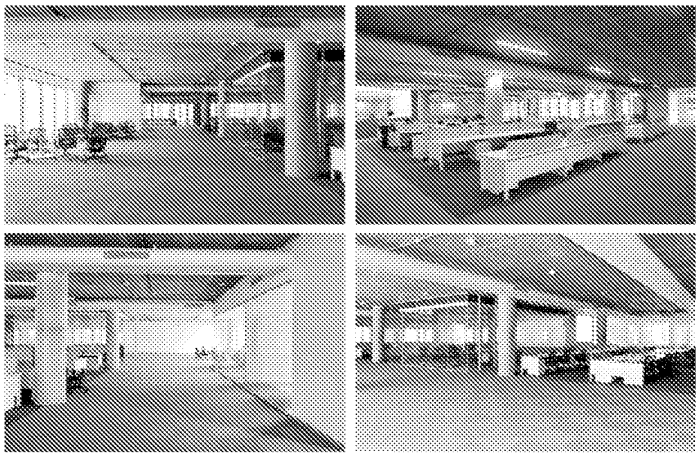


Figure 7b

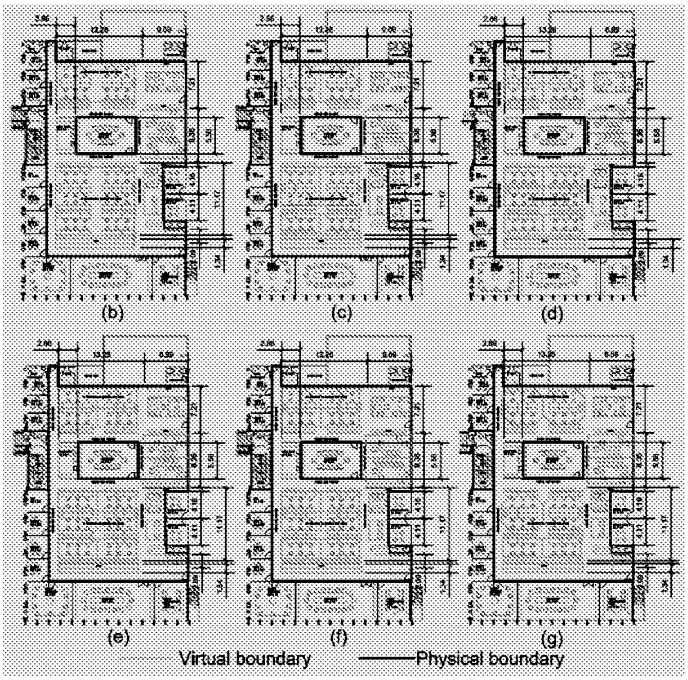


Figure 8

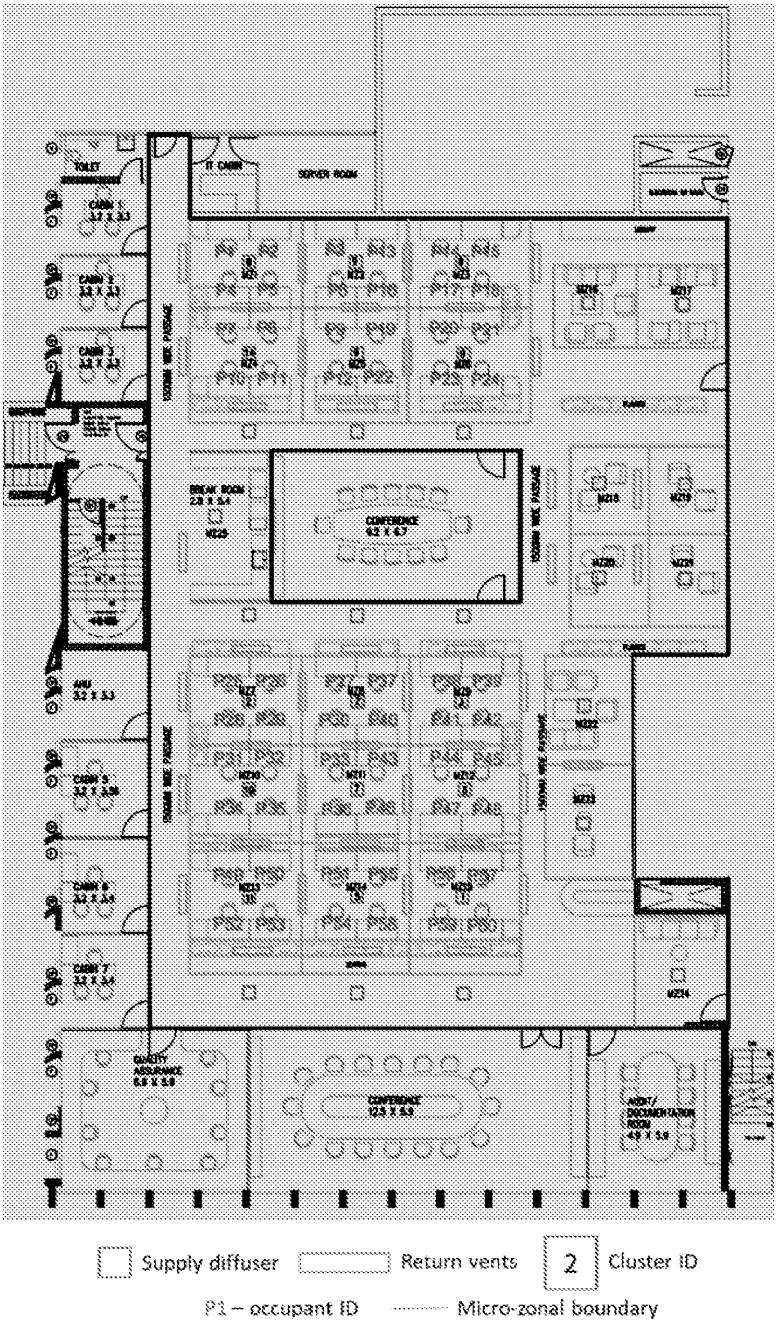
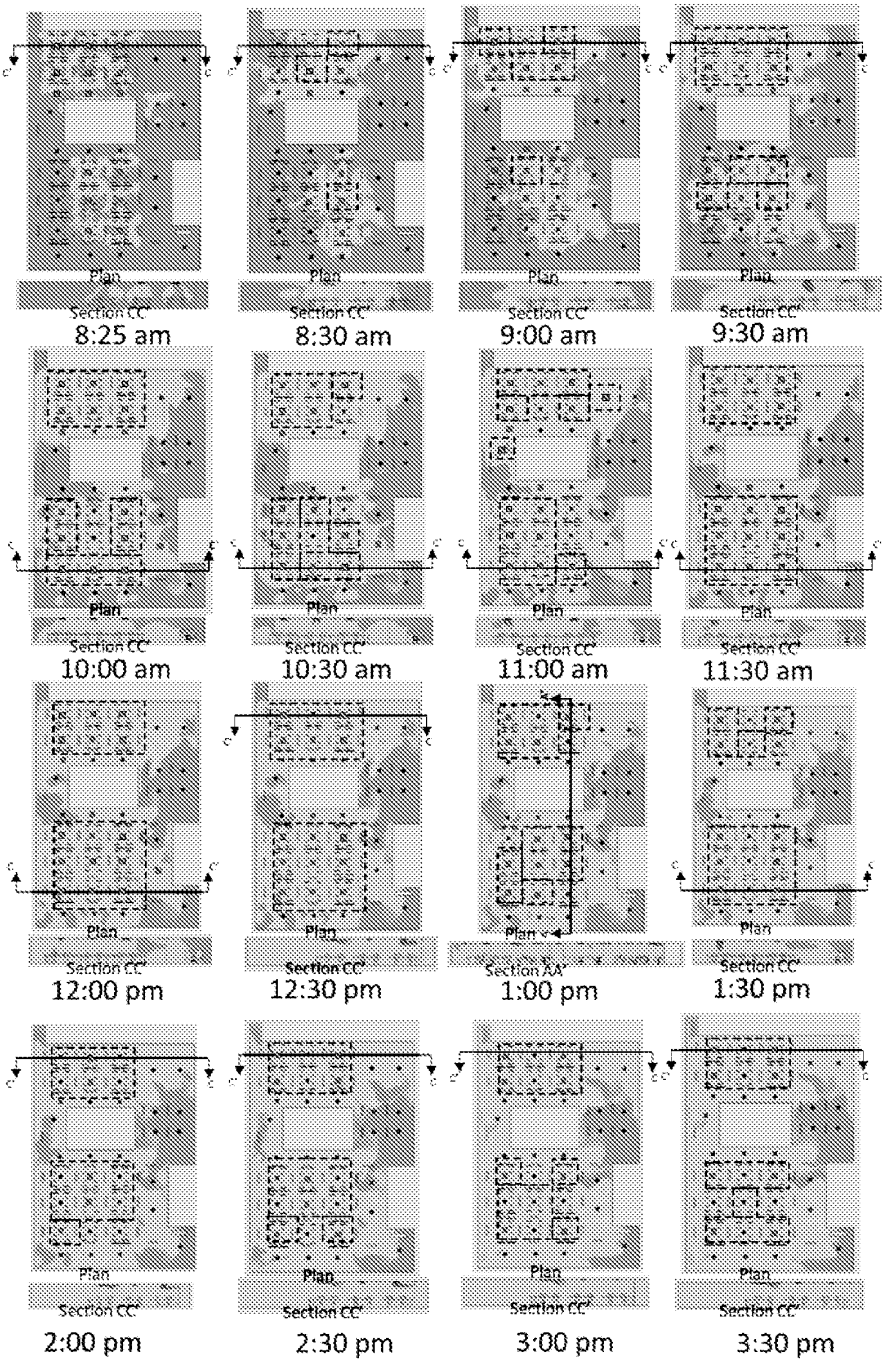

Supply diffuser
Return vents
2
Cluster ID
P1 – occupant ID
Micro-zonal boundary

Figure 9


Plan
Section CC'
8:25 am
8:30 am
9:00 am
9:30 am
10:00 am
10:30 am
11:00 am
11:30 am
12:00 pm
12:30 pm
Section AA'
1:00 pm
1:30 pm
2:00 pm
2:30 pm
3:00 pm
3:30 pm

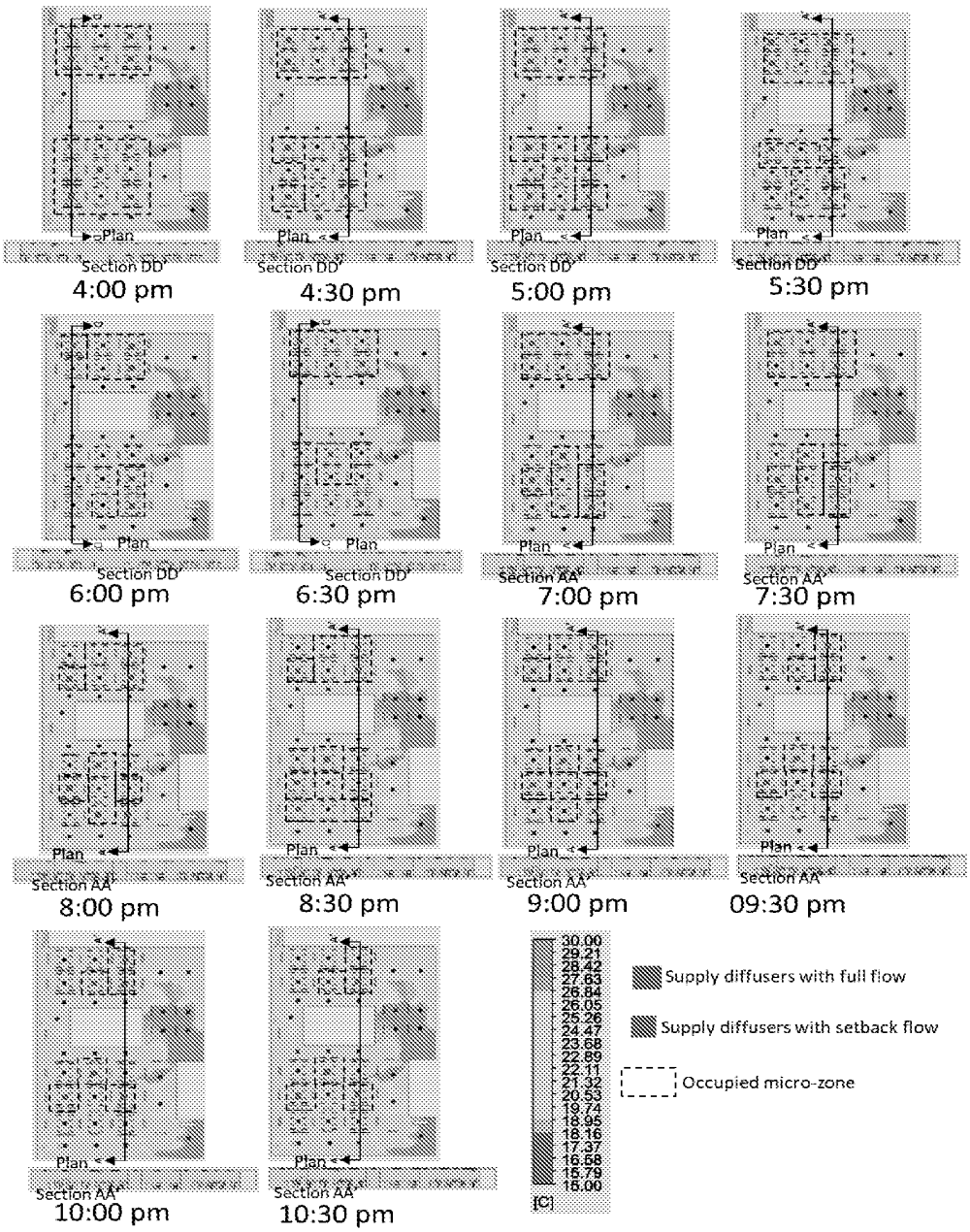
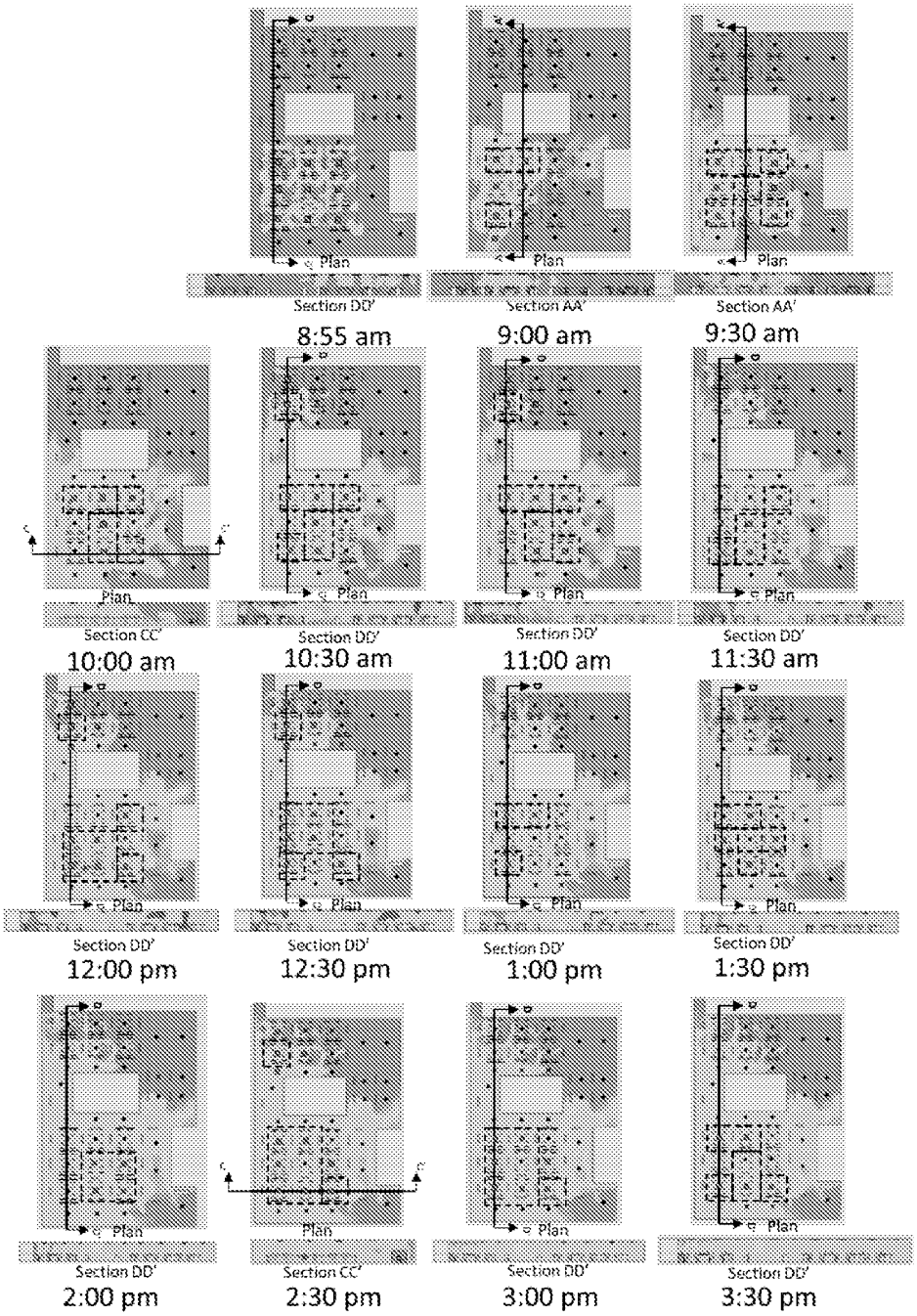

Plan
Section DD'
4:00 pm
4:30 pm
5:00 pm
5:30 pm
6:00 pm
6:30 pm
Section AA'
7:00 pm
7:30 pm
8:00 pm
8:30 pm
9:00 pm
09:30 pm
10:00 pm
10:30 pm
30.00
29.21
28.42
27.63
26.84
26.05
25.26
24.47
23.68
22.89
22.11
21.32
20.53
19.74
18.95
18.16
17.37
16.58
15.79
15.00
[C]
Supply diffusers with full flow
Supply diffusers with setback flow
Occupied micro-zone

Figure 10


Plan
Section DD'
8:55 am
Plan
Section AA'
9:00 am
Plan
Section AA'
9:30 am
Plan
Section CC'
10:00 am
Plan
Section DD'
10:30 am
Plan
Section DD'
11:00 am
Plan
Section DD'
11:30 am
Plan
Section DD'
12:00 pm
Plan
Section DD'
12:30 pm
Plan
Section DD'
1:00 pm
Plan
Section DD'
1:30 pm
Plan
Section DD'
2:00 pm
Plan
Section CC'
2:30 pm
Plan
Section DD'
3:00 pm
Plan
Section DD'
3:30 pm

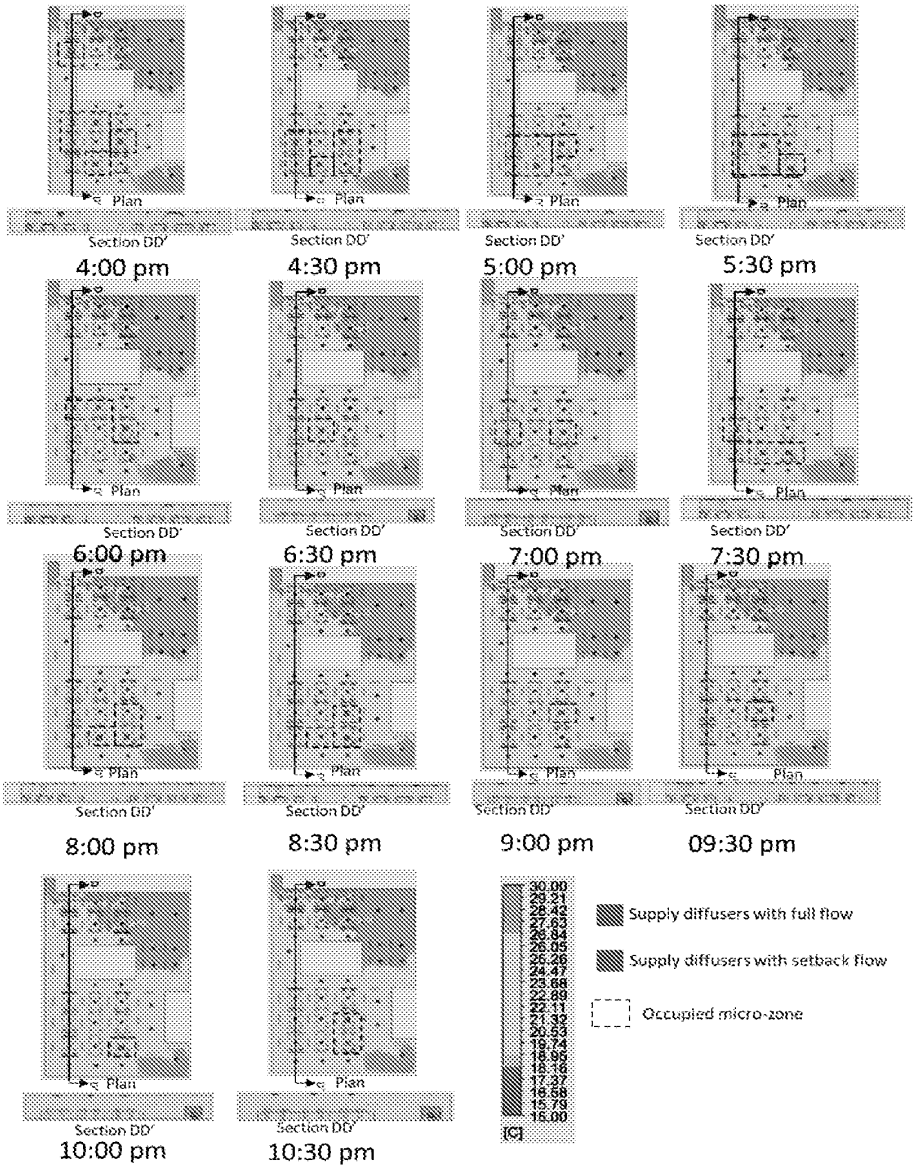

Plan
Section DD'
4:00 pm
4:30 pm
5:00 pm
5:30 pm
6:00 pm
6:30 pm
7:00 pm
7:30 pm
8:00 pm
8:30 pm
9:00 pm
09:30 pm
10:00 pm
10:30 pm
30.00
29.21
28.42
27.63
26.84
26.05
25.26
24.47
23.68
22.89
22.11
21.32
20.53
19.74
18.95
18.16
17.37
16.58
15.79
15.00
[C]
Supply diffusers with full flow
Supply diffusers with setback flow
Occupied micro-zone

Figure 11