Wind Effects and Spray Enhancement Test Plans

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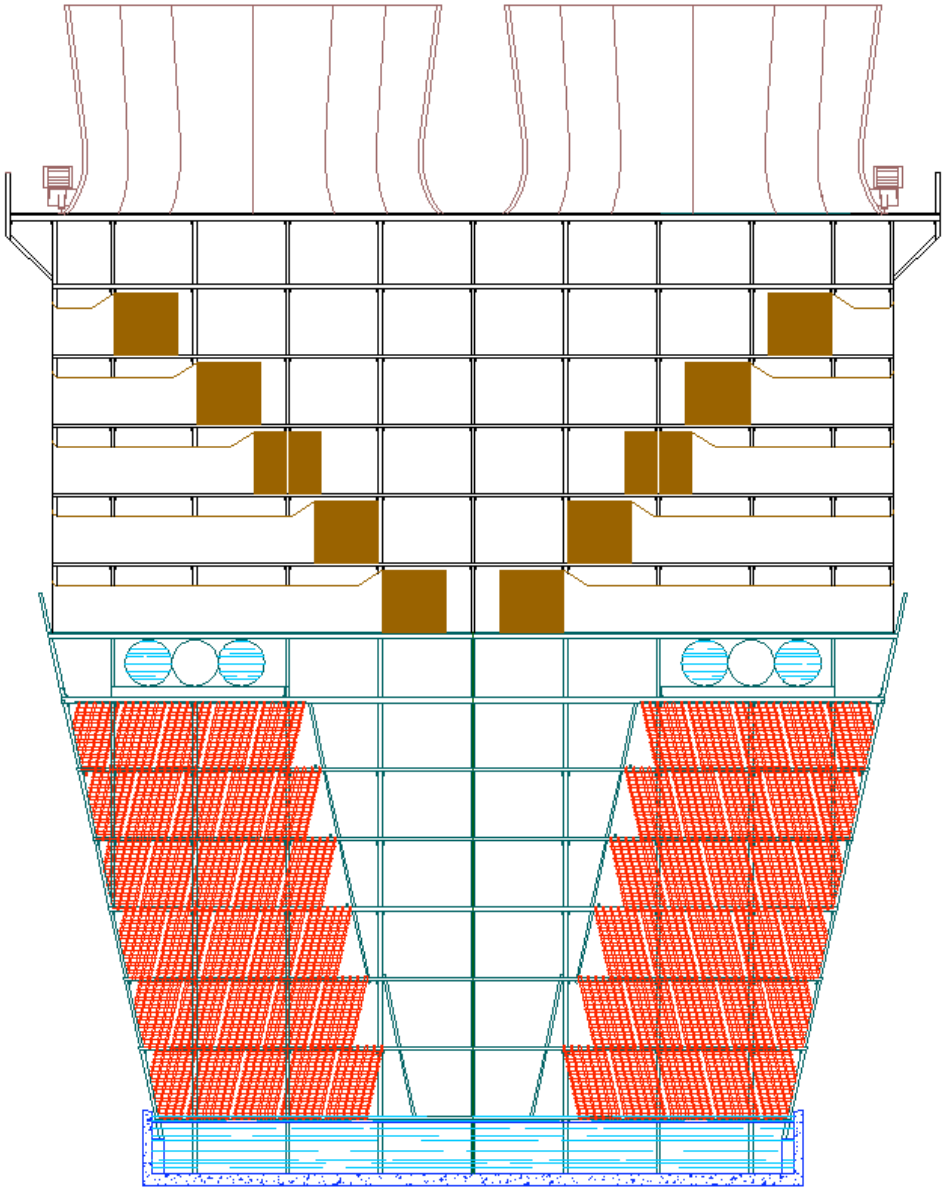
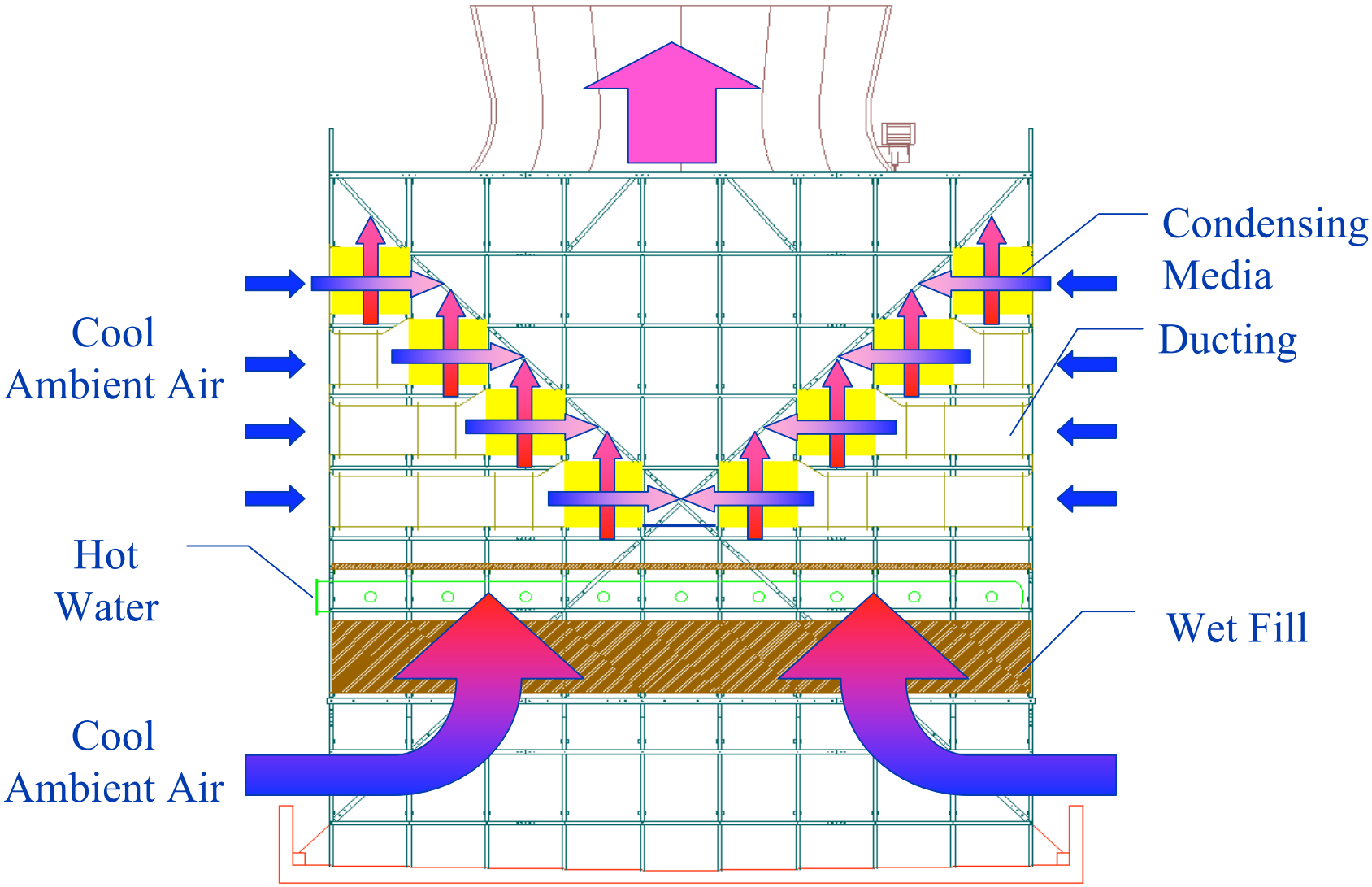
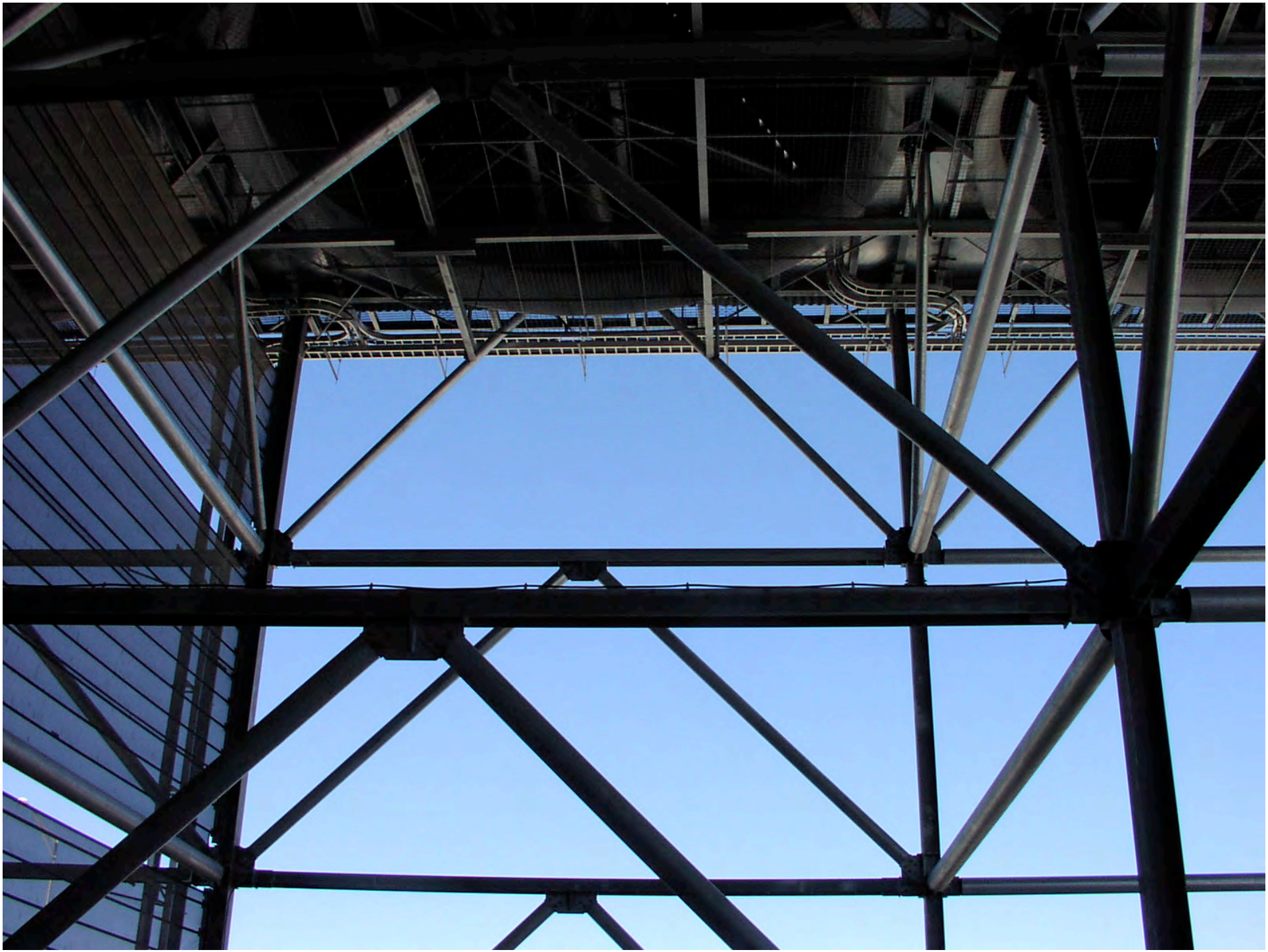
CEC/EPRI Advanced Cooling Strategies/ Technologies Conference
Sacramento, California
May 31---June 2, 2005

AAHE--Retrofit



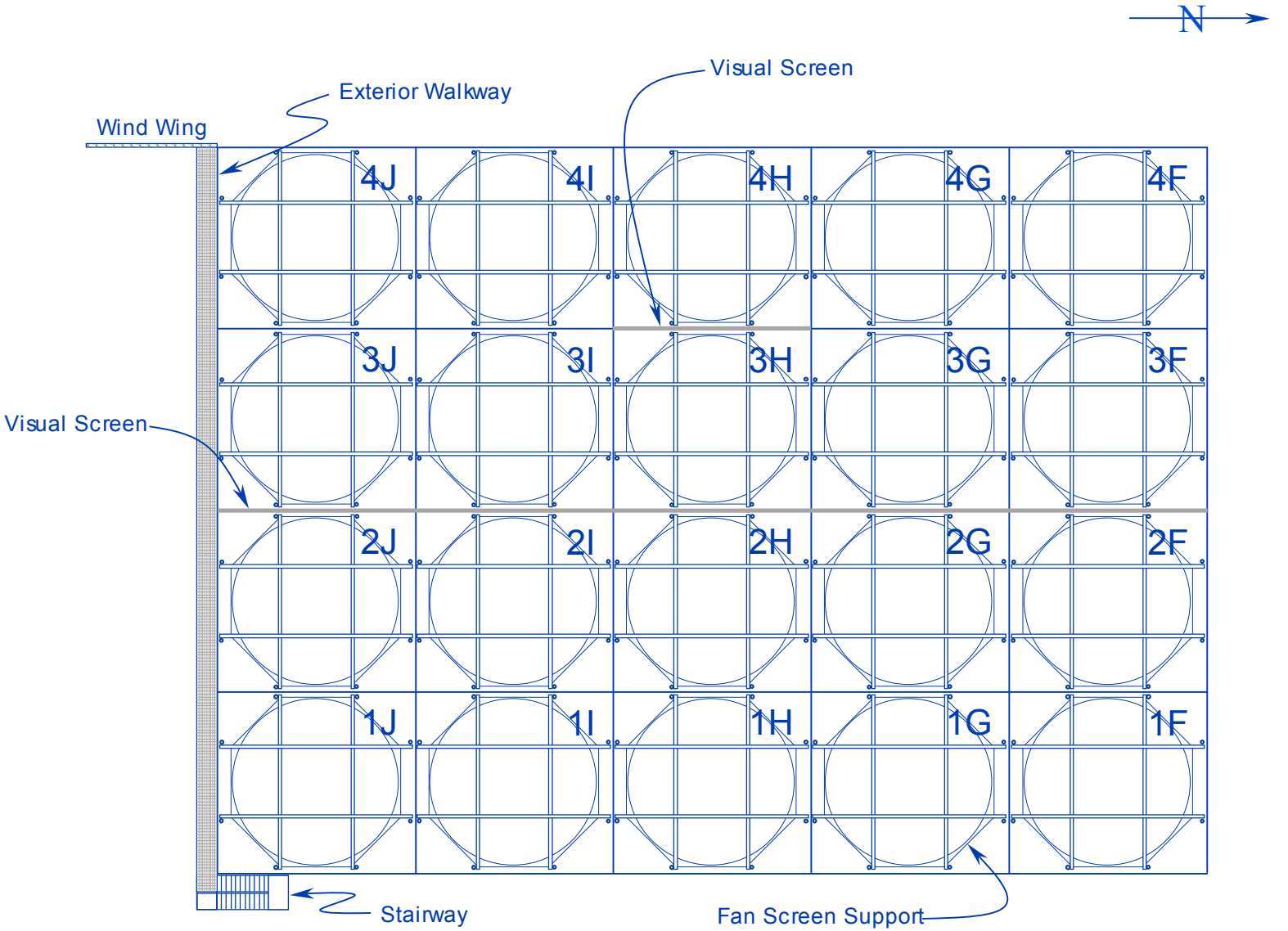
Marley AAHE-- New Tower





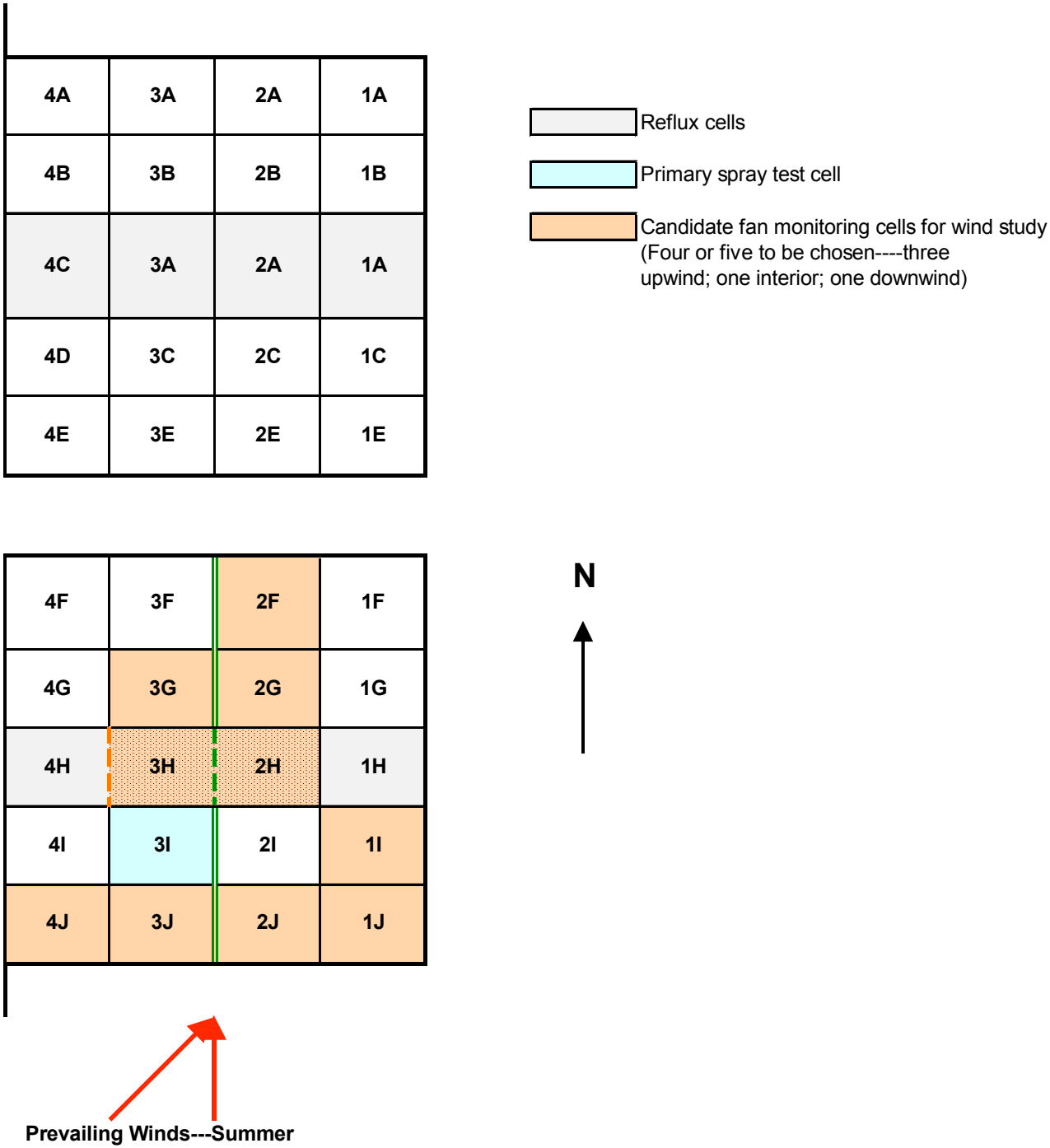
GROVE

GROVE

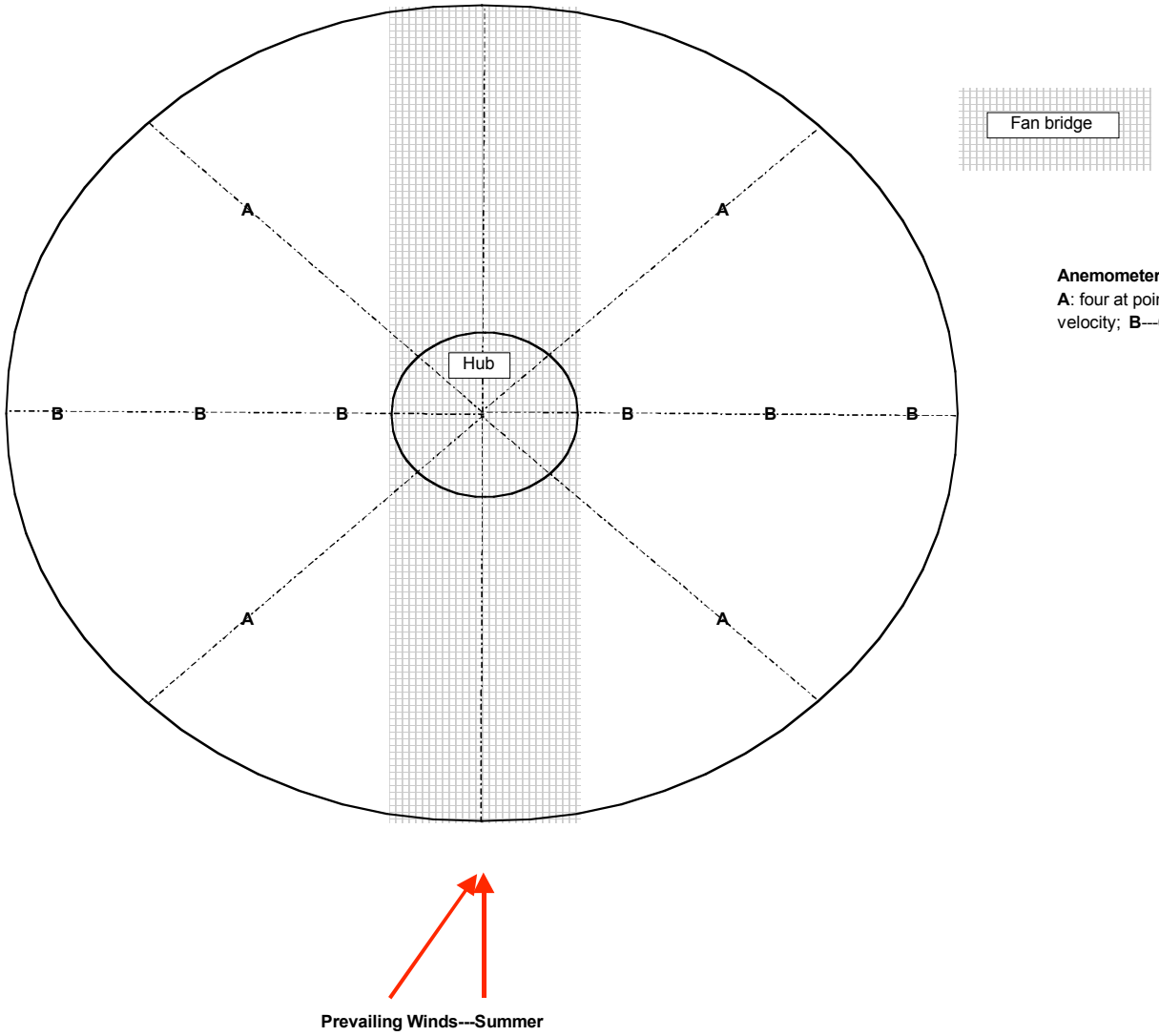


Cell Arrangement

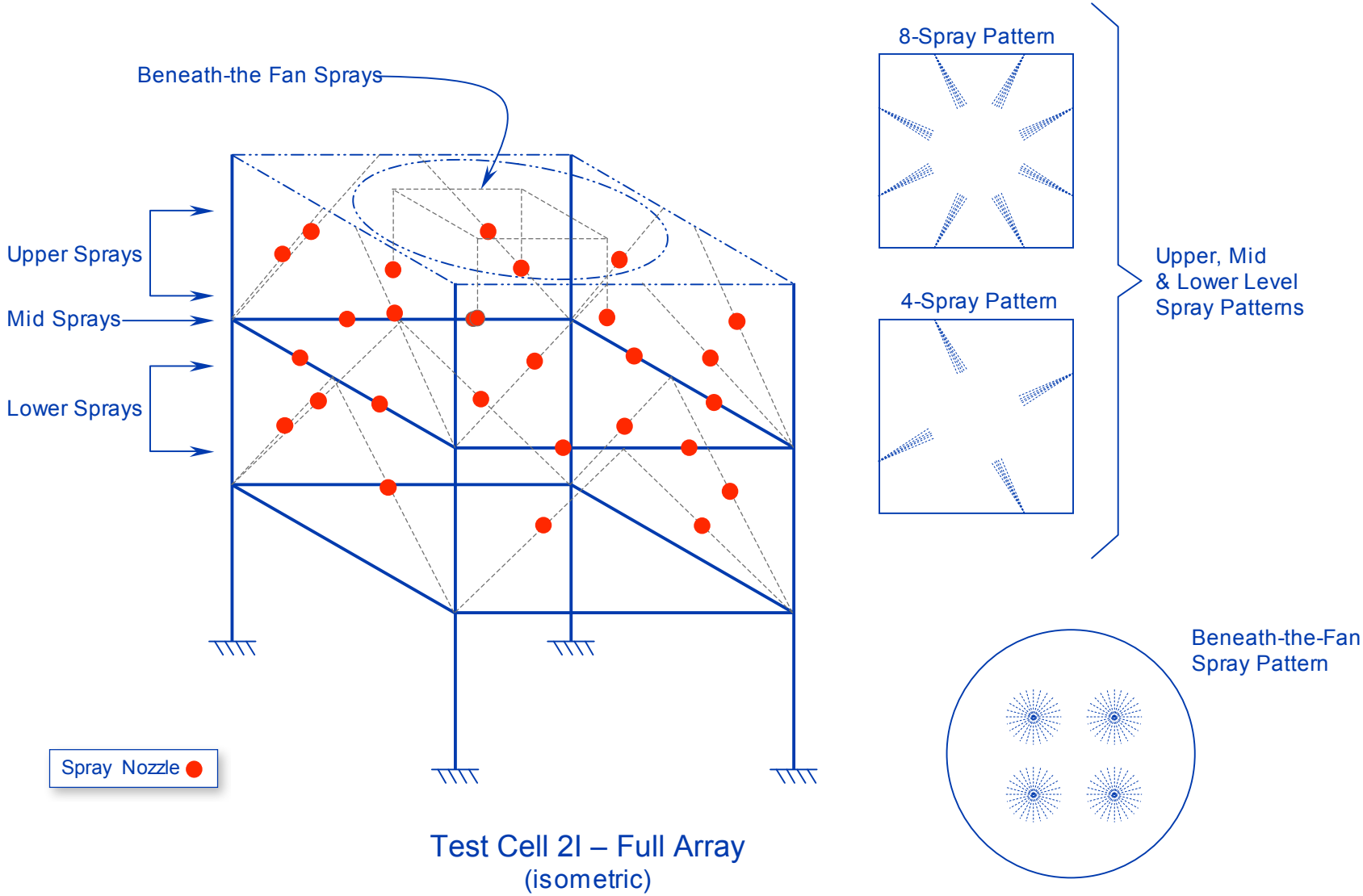
0' 20' 40'


4A
3A
2A
1A
4B
3B
2B
1B
4C
3A
2A
1A
4D
3C
2C
1C
4E
3E
2E
1E
Reflux cells
Primary spray test cell
Candidate fan monitoring cells for wind study
(Four or five to be chosen----three
upwind; one interior; one downwind)
4F
3F
2F
1F
4G
3G
2G
1G
4H
3H
2H
1H
4I
3I
2I
1I
4J
3J
2J
1J
N
Prevailing Winds---Summer

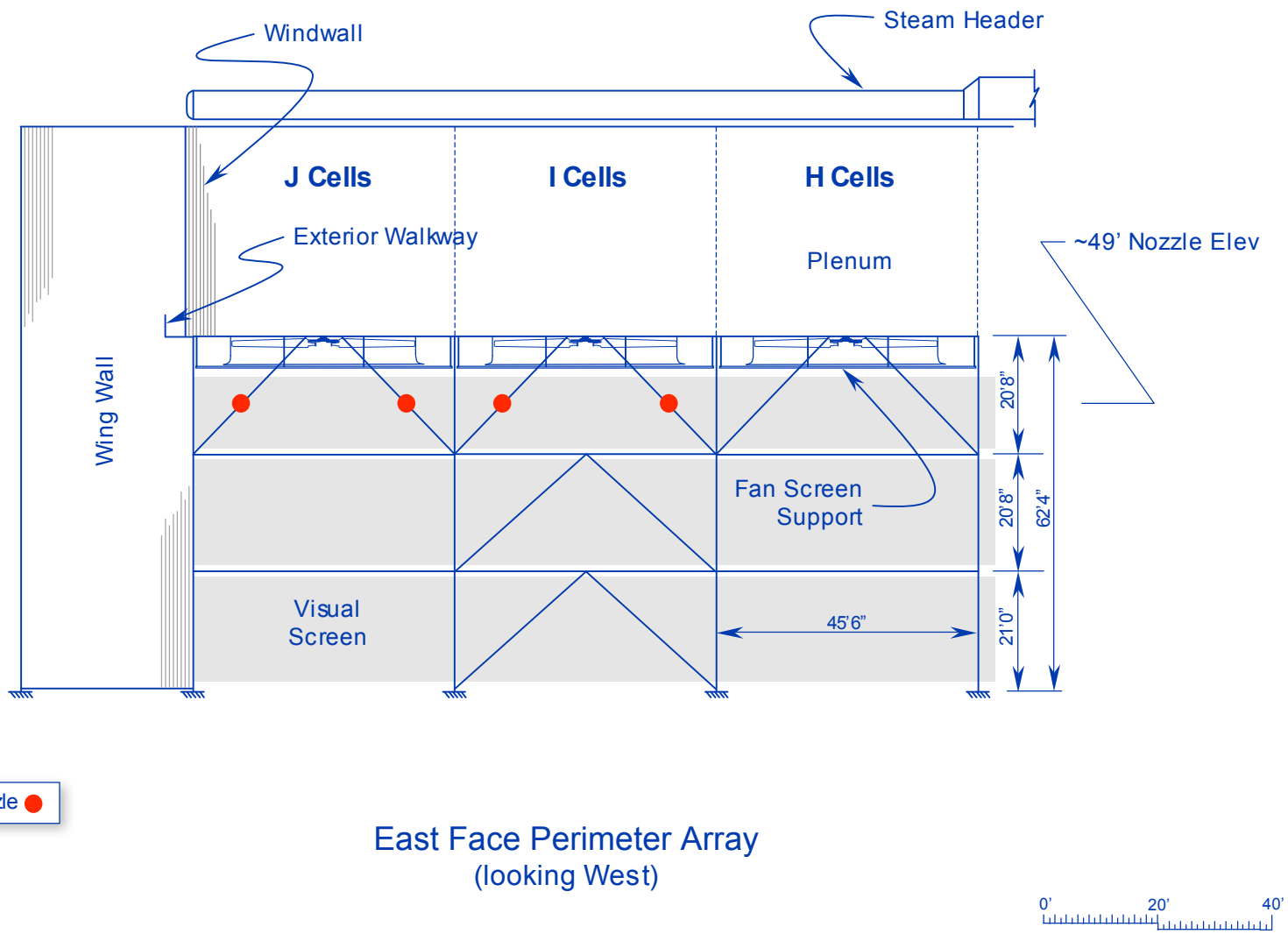
Air Velocity Measurements



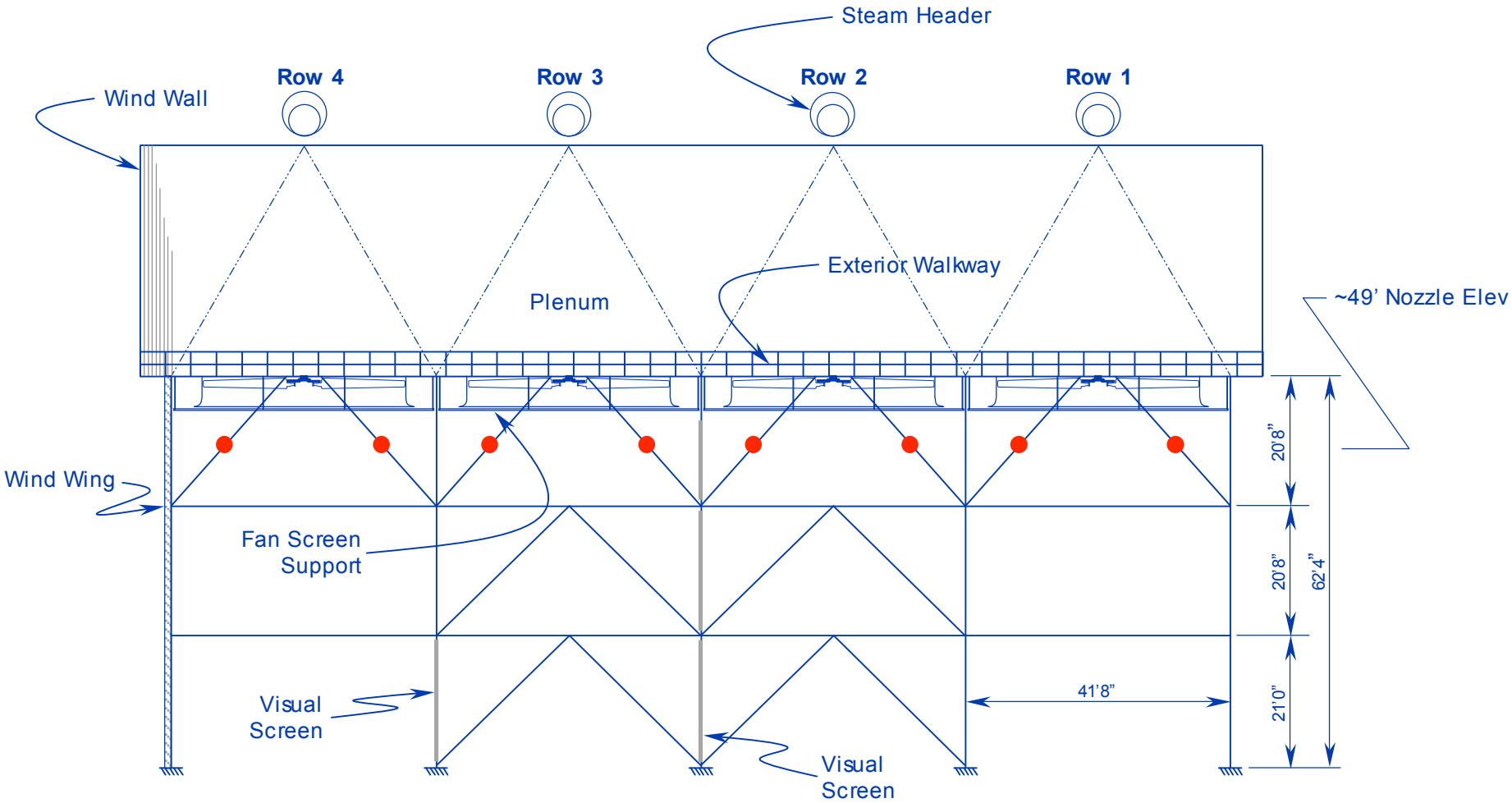
Anemometer locations :
A: four at points of maximum velocity; **B**---6 radially distributed



Test Cell 2I – Full Array
(isometric)



East Face Perimeter Array
(looking West)

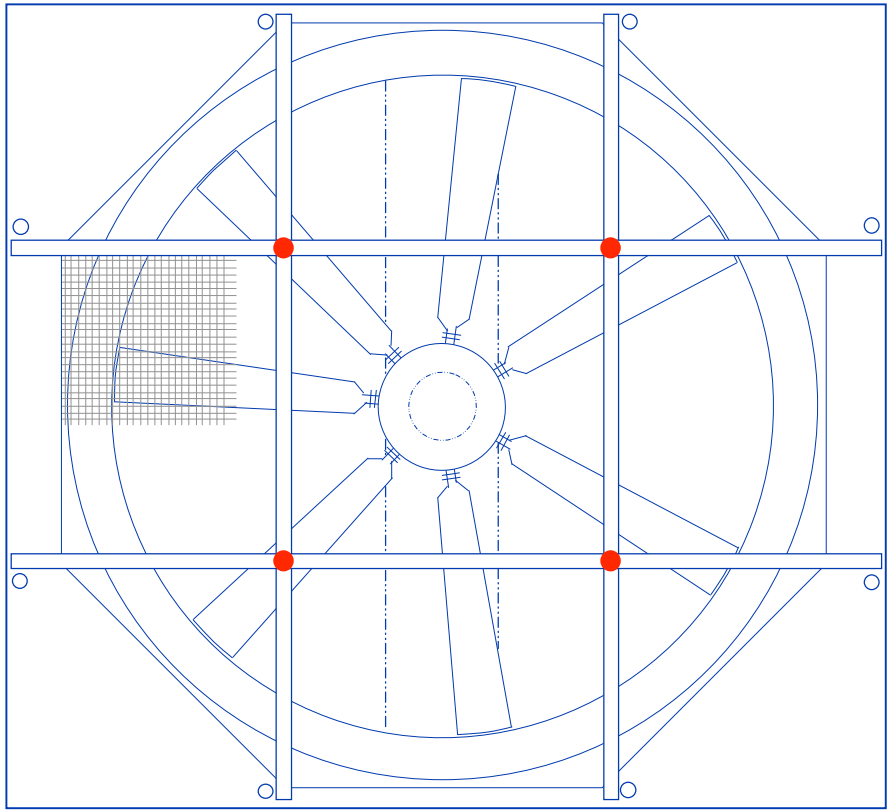


South Face Perimeter Array
(looking North)

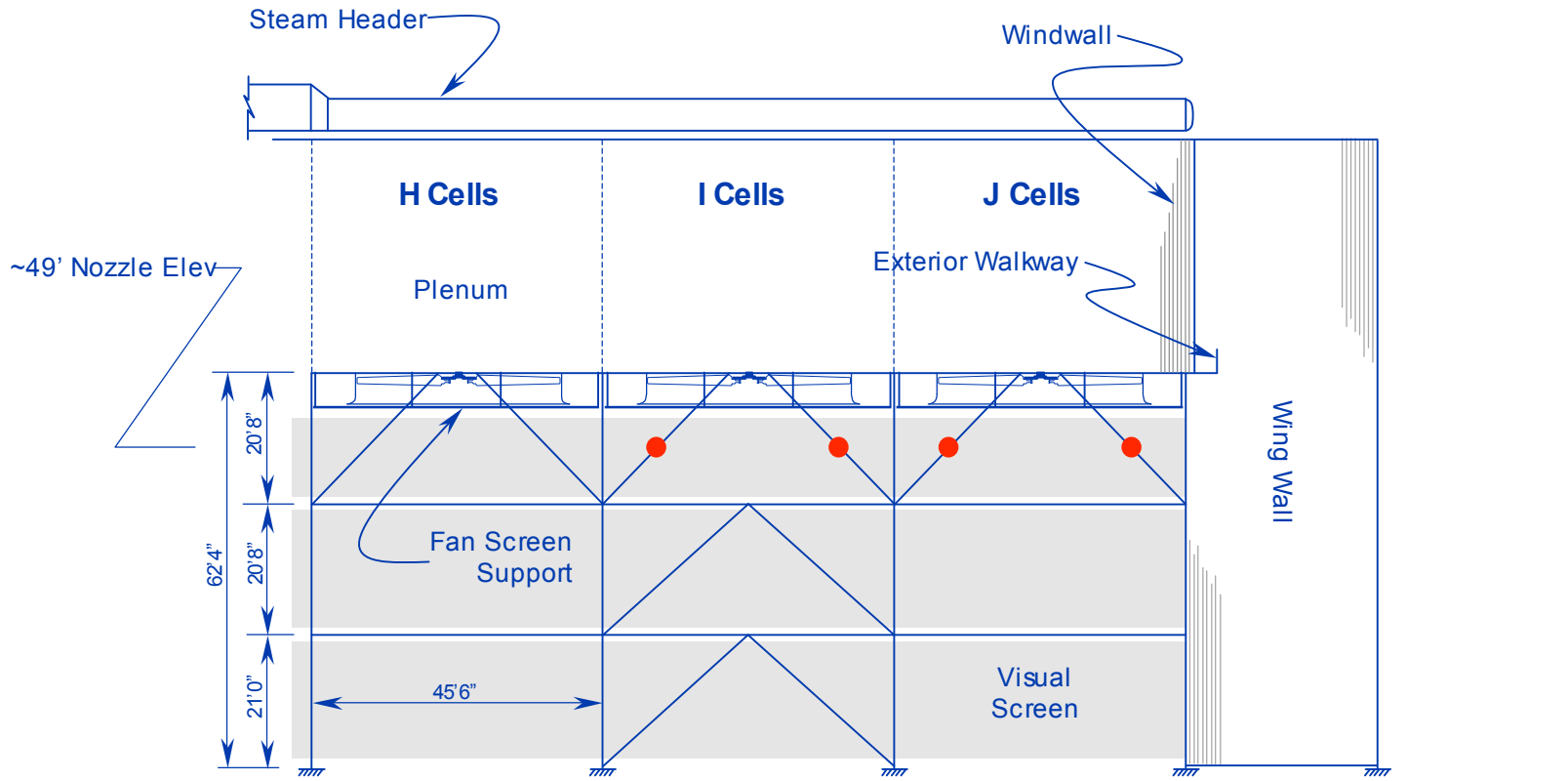
Spray Nozzle

0' 20' 40'

Test Cell 2I – Array Details
(beneath fan)



Spray Nozzle



West Face Perimeter Array
(looking East)