

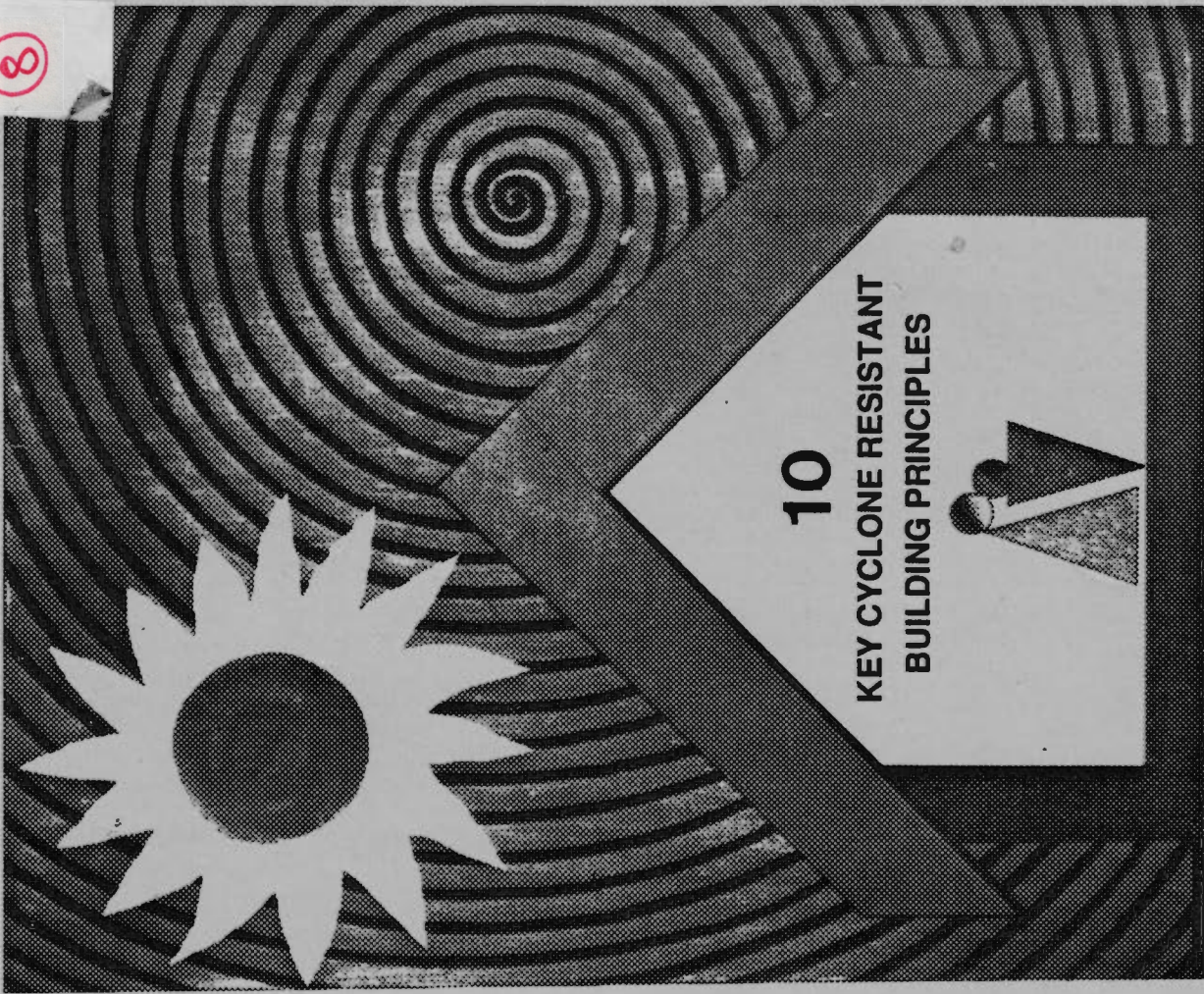


VIET/05/019

Disaster preparedness and rehabilitation in Binh Tri Thien Province, Vietnam
Sử bảo vệ chống thảm-hoa thiên-nhiên ở tỉnh Bình Trị Thiên, Việt Nam

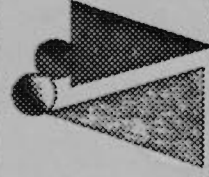
CHUYÊN GIAO KỸ THUẬT XÂY DỰNG NHÀ CHỐNG GIÓ BÃO
DEMONSTRATION OF STORM RESISTANT BUILDING TECHNIQUES

8



10

KEY CYCLONE RESISTANT
BUILDING PRINCIPLES

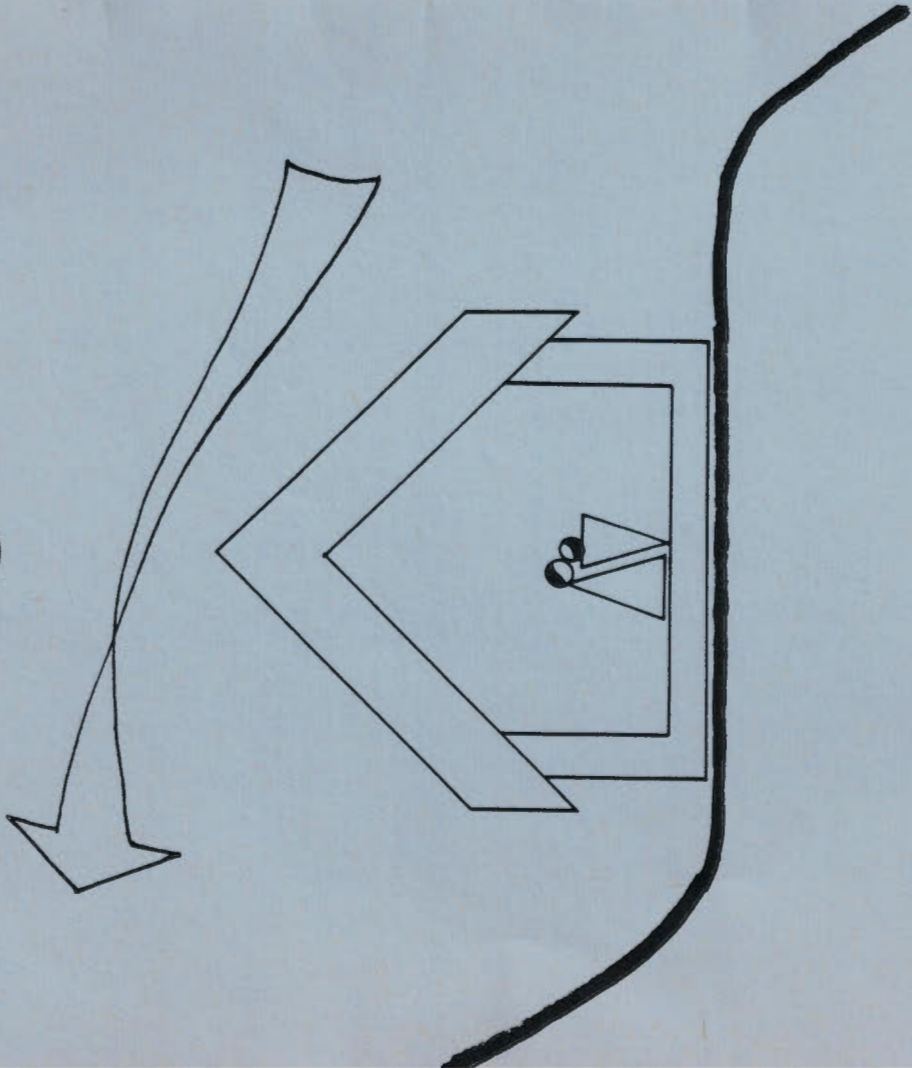


Development
Workshop

Viện Thiết Kế Nhà Ở - Công Trình Công Cộng, Hanoi
Institute For Housing and Public Building Design
Xí Nghiệp Thiết Kế Khảo Sát Xây Dựng, Huế
Institute For Building Investigation and Design

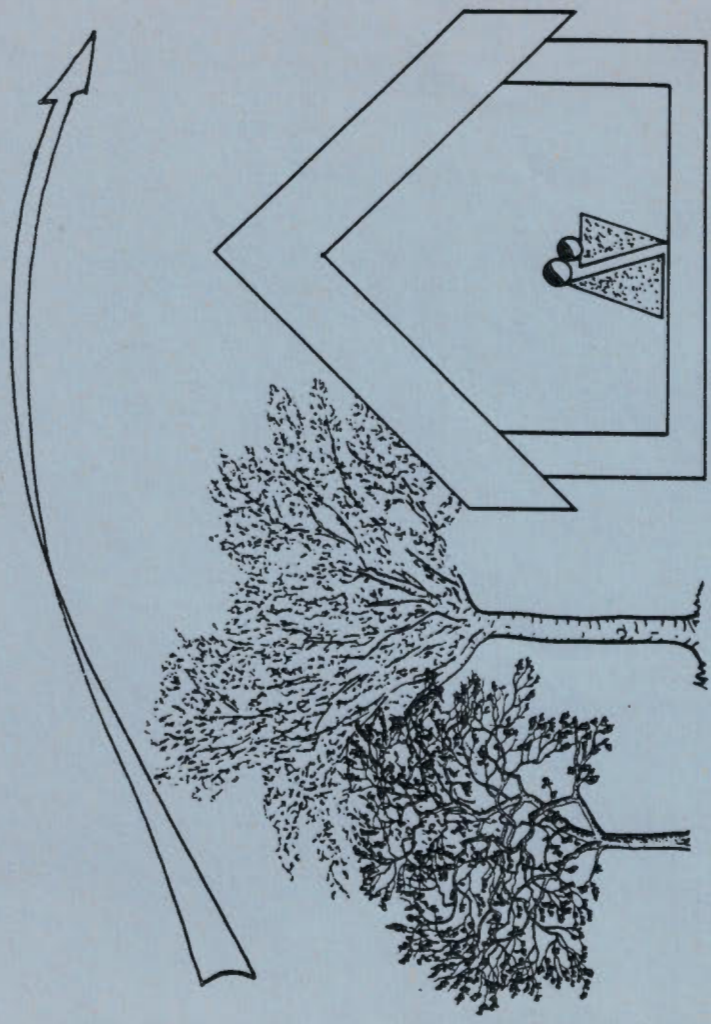
GRET

1



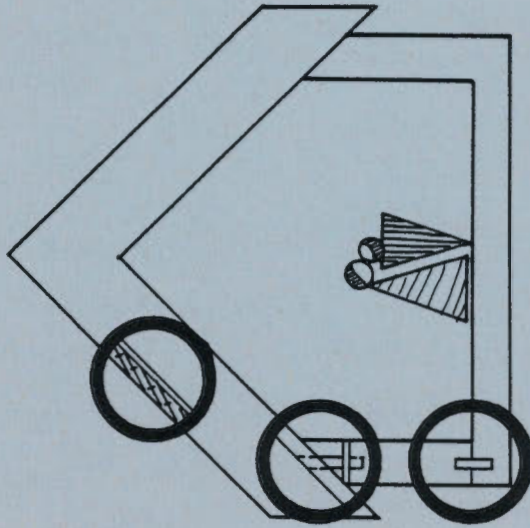
use landscape and topography
to minimise flood risk
and modify wind speed and direction

10



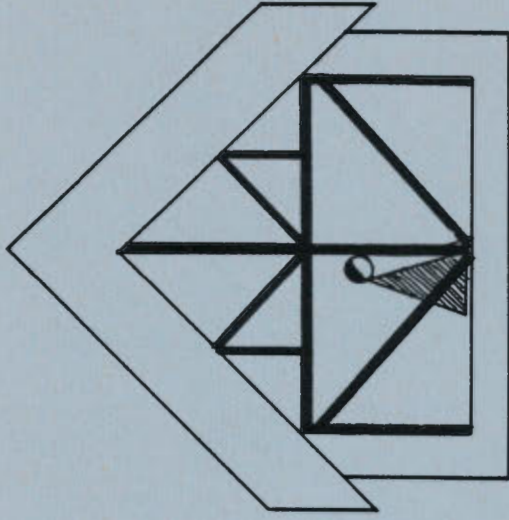
use planting of trees and bushes
to reduce wind speed

5



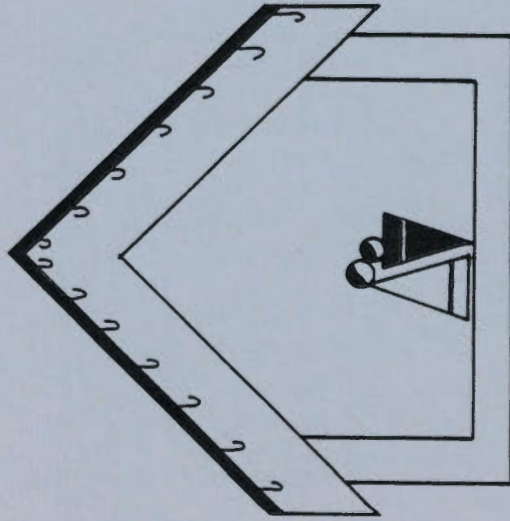
make sure of strong fixings and joints
between all elements :
foundations - walls - cladding
walls - roof frame
roof frame - covering

6



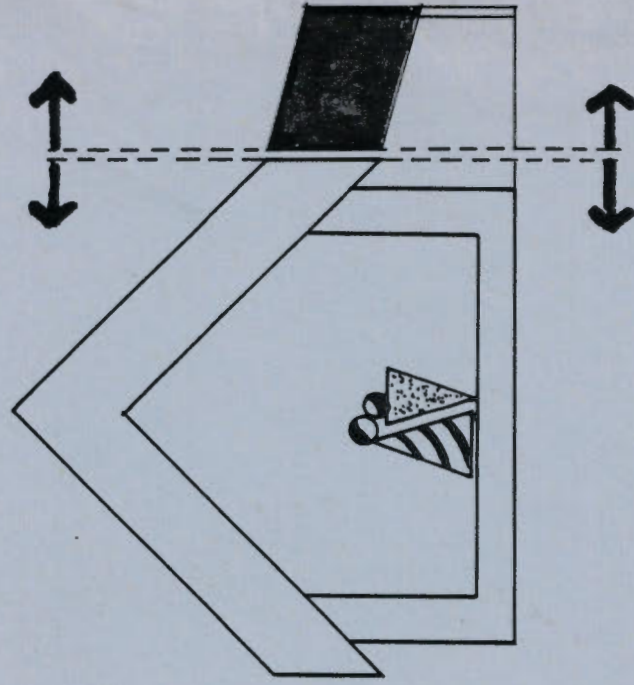
reinforce vertical and horizontal triangulation
(diagonal bracing)

7



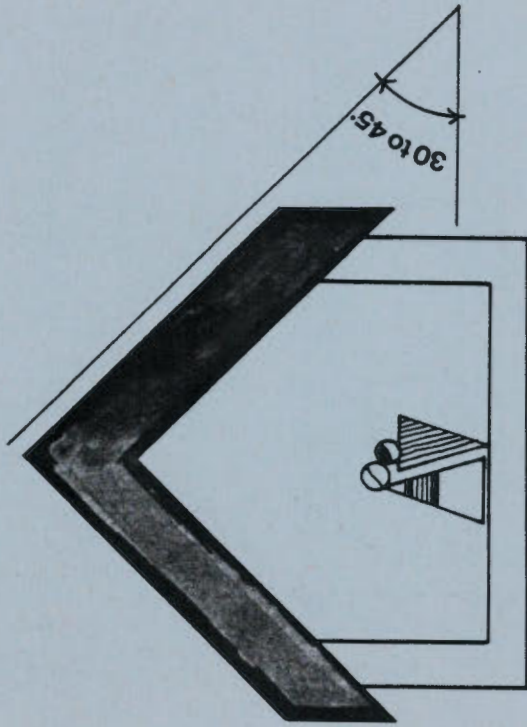
make sure roof covering elements
cannot be lifted off by wind

4



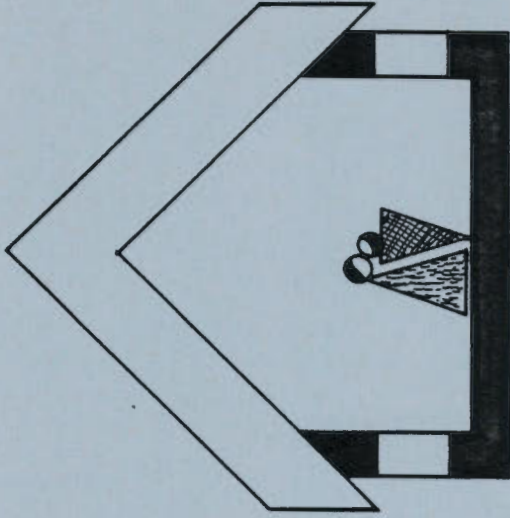
avoid large roof overhangs
separate verandah covering and frame
from main roof

3



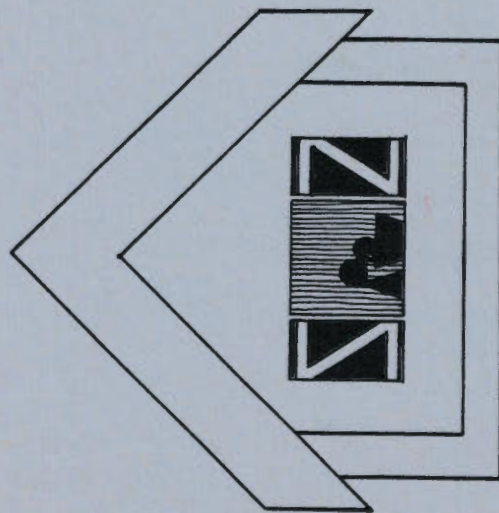
keep the roof pitch between 30° and 45°
to minimise suction
caused by negative pressure

8



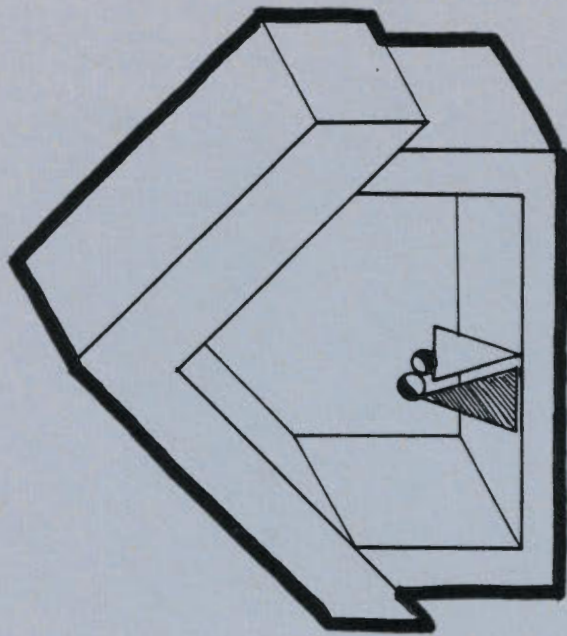
balance the size of openings
in opposing walls

9



make sure all openings can be closed

2



give the building an uniform shape
presenting minimum obstruction to the wind