

EVERGREENS PROVIDE WINTER WIND BLOCK. PLANT SO WIND HITS SHRUBS FIRST THEN TREES TO DIRECT WIND UP AND OVER BUILDING.

PLACE DRIVEWAY SO THAT SUMMER BREEZES CARRY RADIATED HEAT AWAY FROM BUILDING.

SHADE AND MINIMIZE USE OF REFLECTIVE GROUND SURFACES SUCH AS CONCRETE.

PLACE GARAGE ON WEST TO BUFFER SOLAR HEAT LOAD.

ELONGATE BUILDING ON AXIS FROM 5° SOUTH OF EAST TO 15° NORTH OF EAST TO FACE SUMMER BREEZES AND MINIMIZE EAST AND WEST WALLS.

SHADE A/C CONDENSOR

USE GROUND COVER NEAR HOUSE TO ABSORB SUN RAYS. ALSO USE UNDER TREES WHERE GRASS WILL NOT GROW.

SUMMER BREEZES

HIGH CANOPY DECIDUOUS TREES SHADE AND COOL BREEZES WITHOUT BLOCKING THEM.

TRELLIS COVERS PATIO AND SHADES WEST WALL

USE RAISED DECKS FOR MAXIMUM COOLING AND DRYING

PLANTINGS FUNNEL SUMMER BREEZES TO BUILDING

WHEN NATURAL VENTILATION CAN NOT BE USED, SHRUBBERY MAY HELP INSULATE THE BUILDING BY CREATING A DEAD AIR SPACE NEXT TO EXTERIOR WALLS. KEEP ONE FOOT MINIMUM OPEN SPACE BETWEEN SHRUBS AND BUILDING TO PREVENT EXCESS MOISTURE RETENTION.

WHEN NATURAL VENTILATION IS POSSIBLE KEEP SHRUBS LOW-DO NOT BLOCK AIR CIRCULATION.

UTILIZE SHADED WALKS AND DRIVES TO CHANNEL COOL BREEZES TO BUILDING.

MAXIMIZE DRYNESS BY LOCATING BUILDING ON HIGH GROUND ON GRAVELLY, WELL-DRAINED SOIL AND PROVIDING AN EXTENSIVE UNDER-DRAINAGE SYSTEM. THIS HELPS CONTROL HIGH HUMIDITY.

1' 2' 4' 8' 12' 16' 20'

SCALE:

COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS

AND UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

ENERGY EFFICIENT LANDSCAPE

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