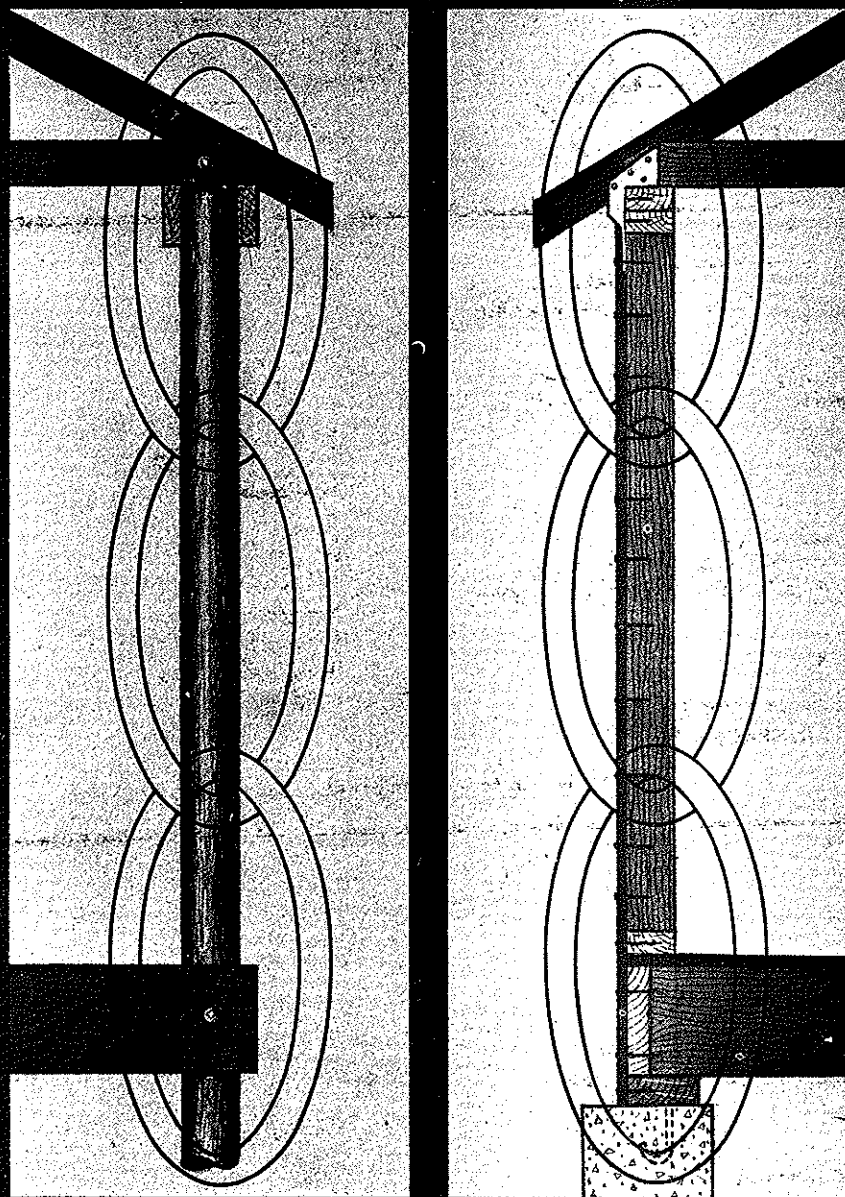
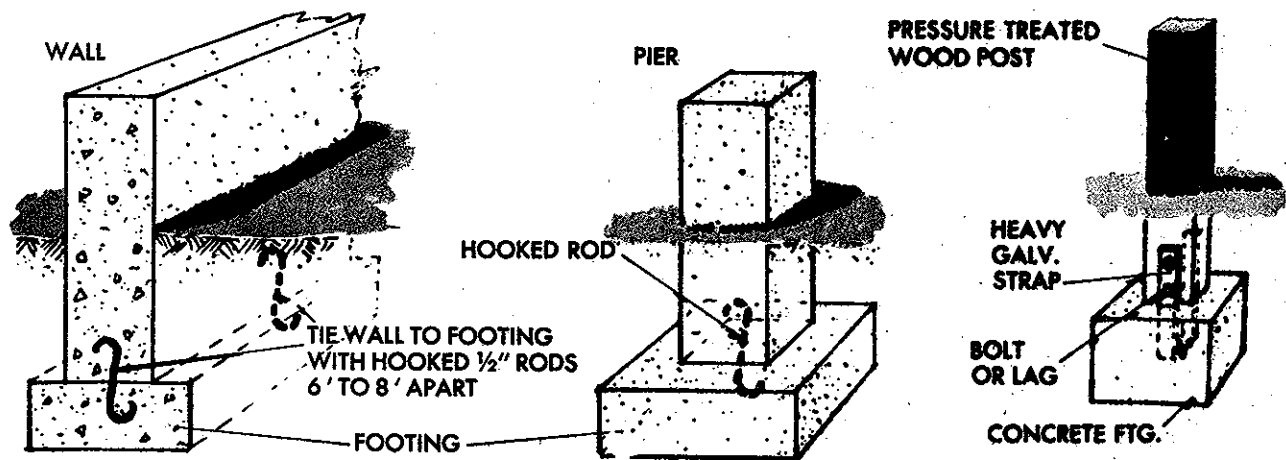


How to Build Storm Resistant Structures

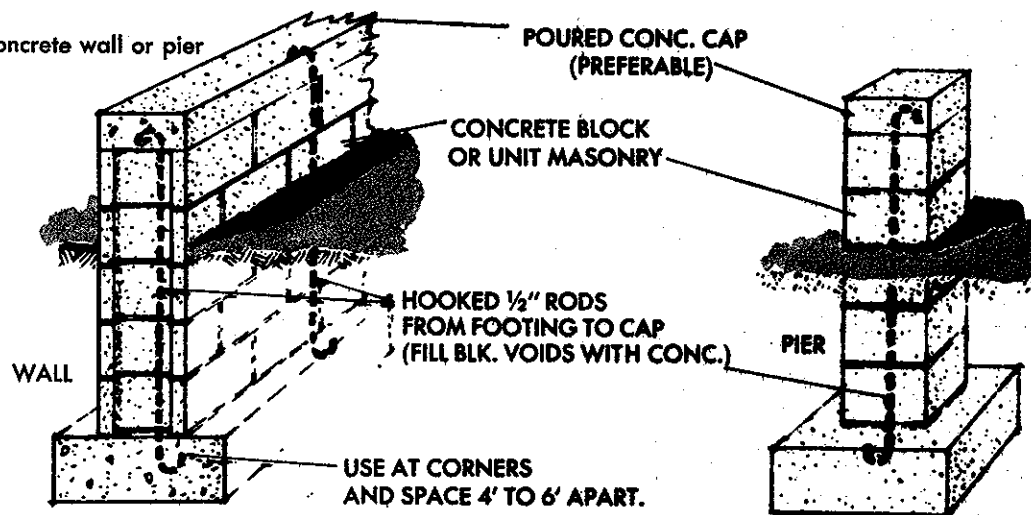


Homes and buildings which best withstand hurricane winds and tides generally fall into three categories:—1) High ground locations, 2) Elevated pole-frame systems, 3) Secure anchorage and fastenings from foundation to roof whether on high or low ground. These pages contain structural details on crucial links that increase safety and resistance to the ravages of storms and wear.

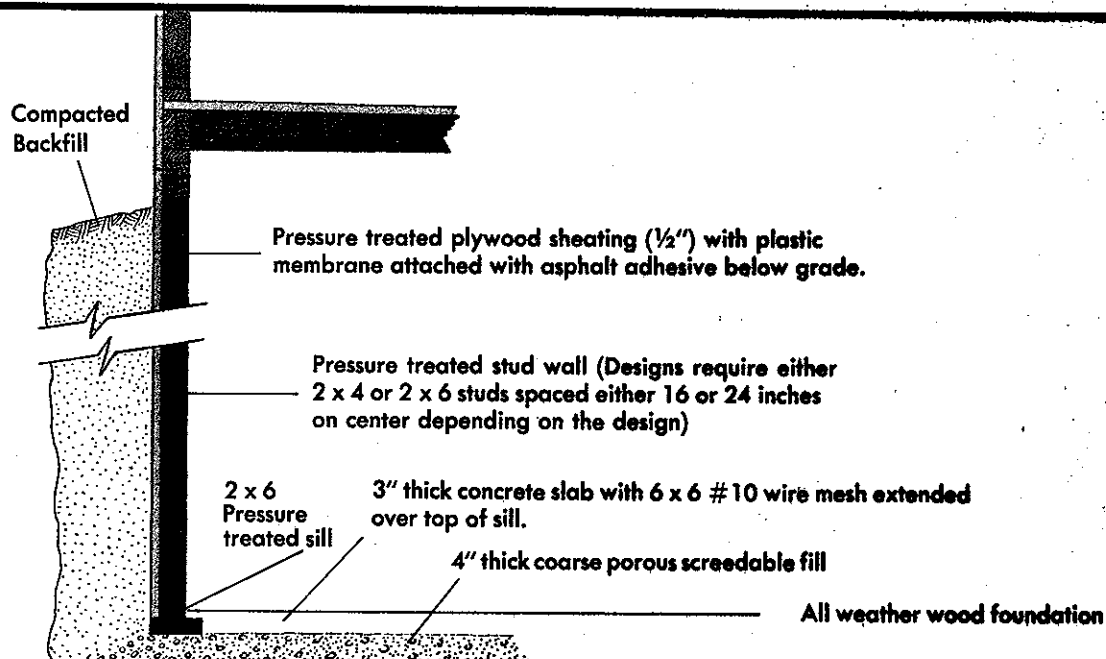
PROPER FOUNDATION ANCHORAGE



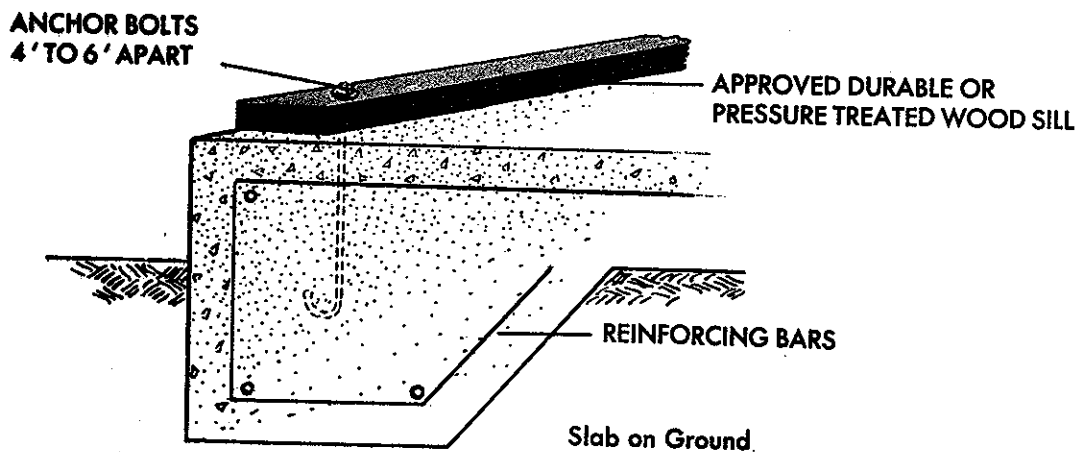
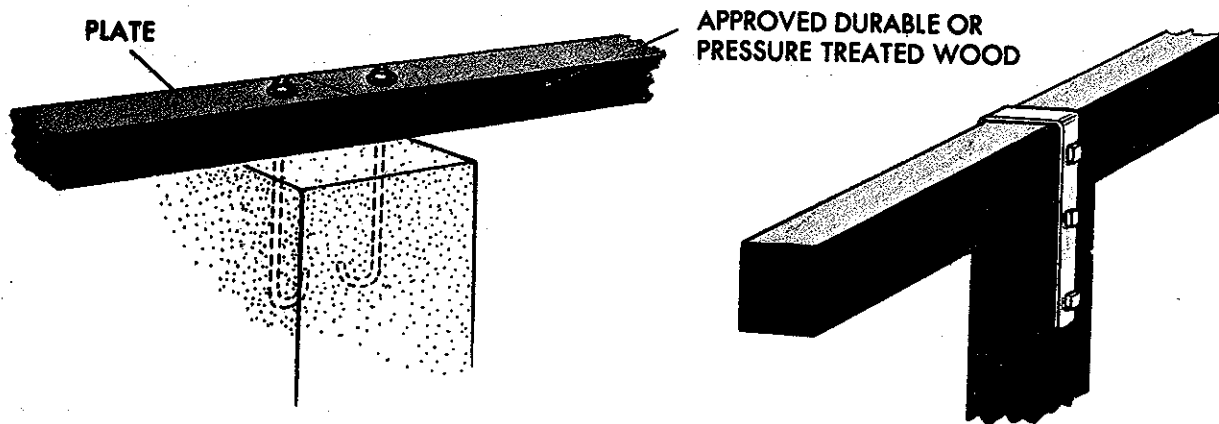
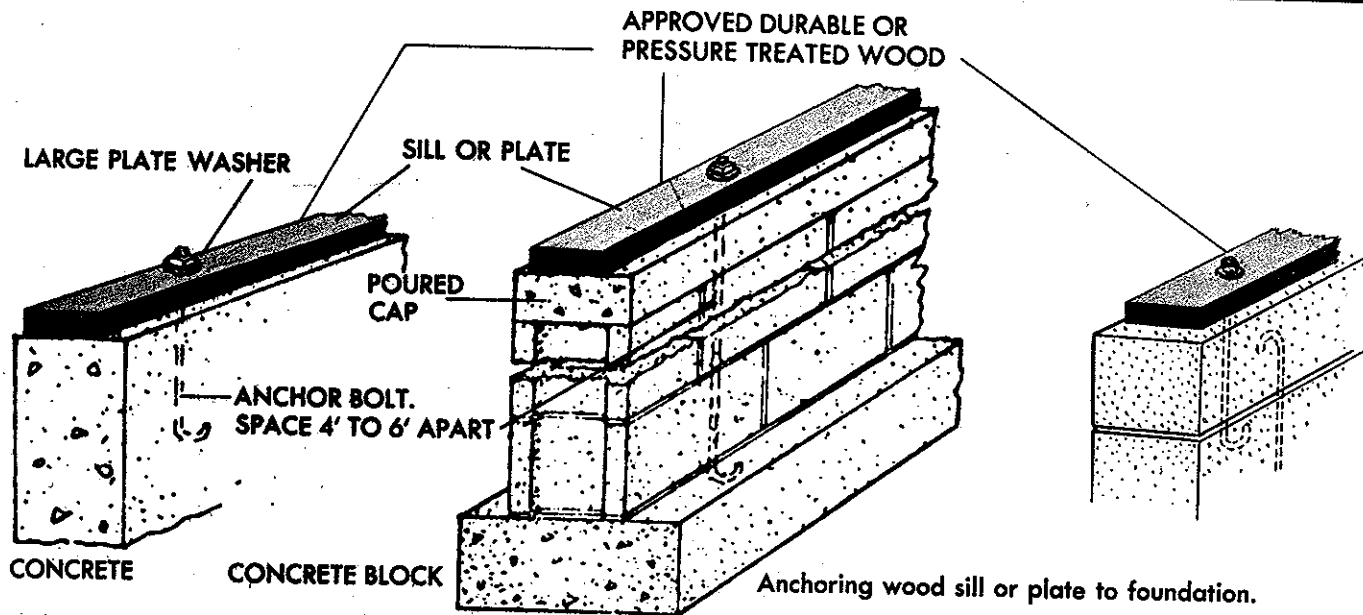
Anchoring footings to concrete wall or pier



Anchoring footings to concrete block wall or pier

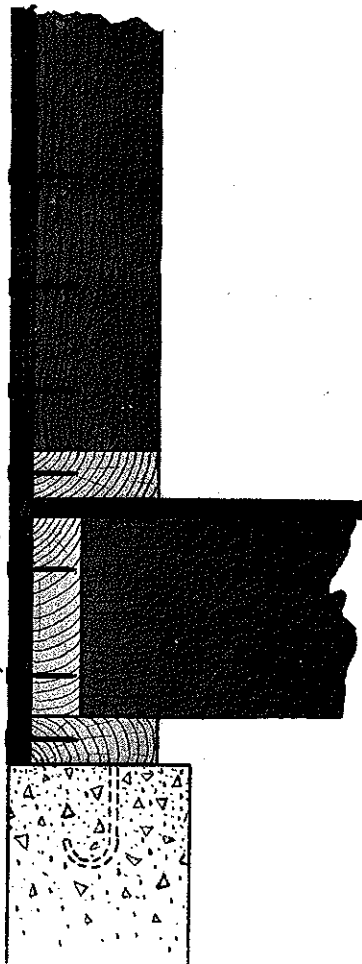


SECURING SILLS OR PLATES



HOW TO TIE WALLS TO FLOOR FRAMING WITH SHEATHING OR SIDING

NAIL TO
ALL MEMBERS



SOLID WOOD OR
PLYWOOD SHEATHING

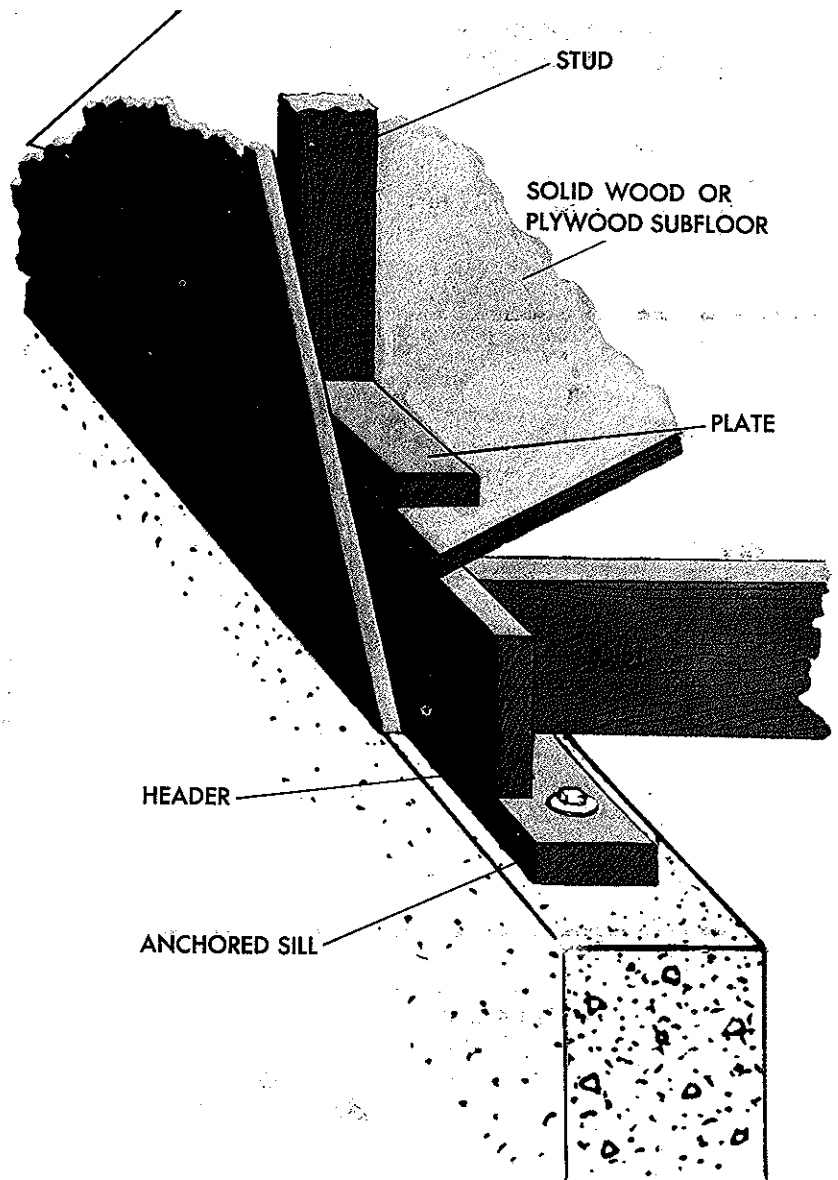
STUD

SOLID WOOD OR
PLYWOOD SUBFLOOR

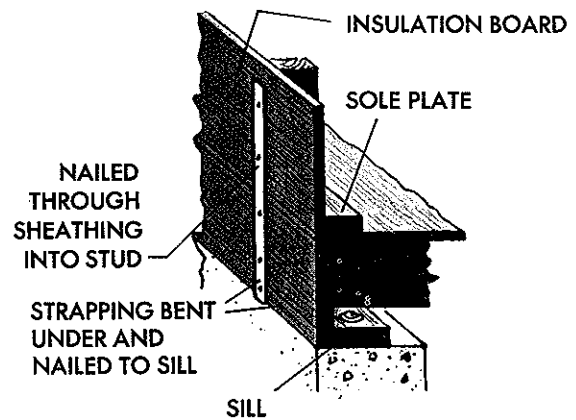
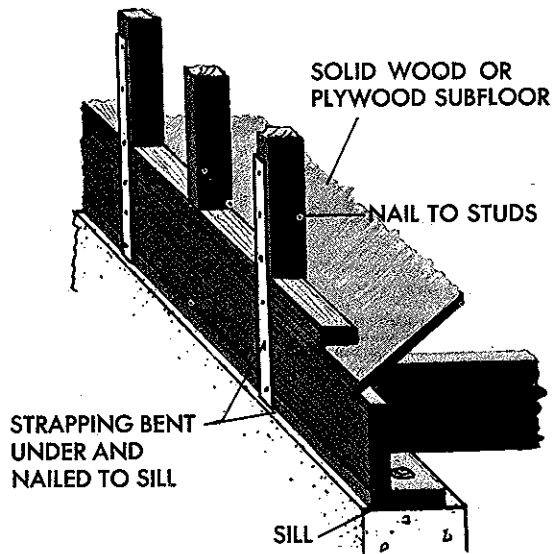
PLATE

HEADER

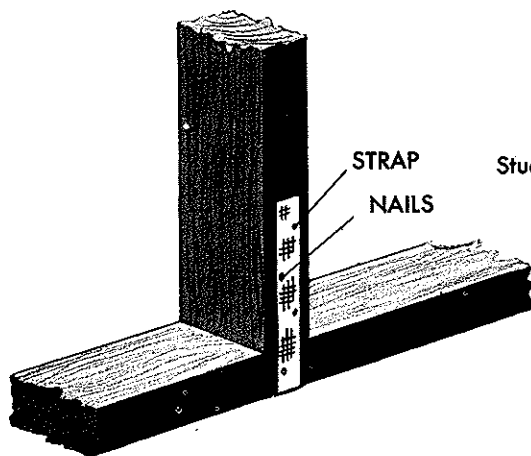
ANCHORED SILL



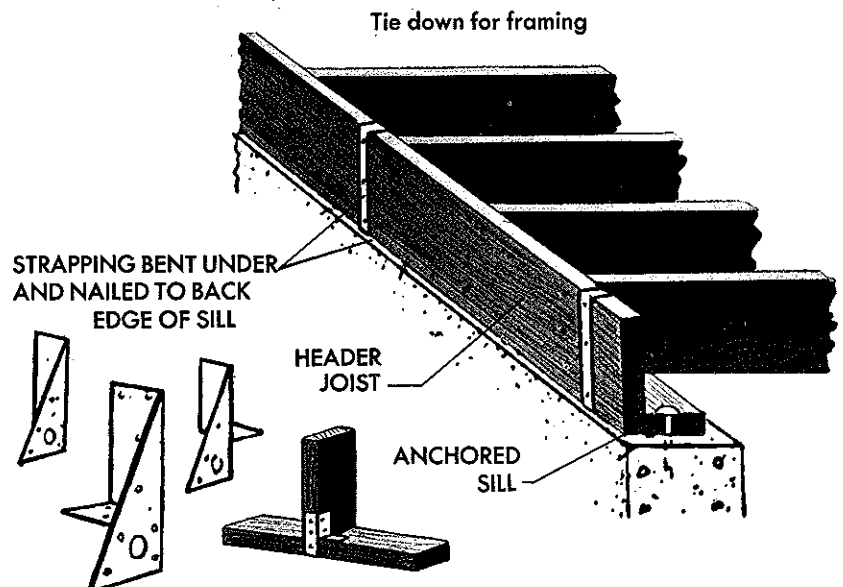
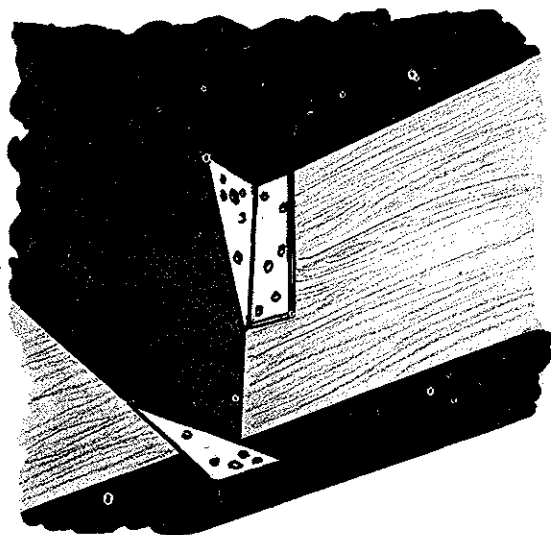
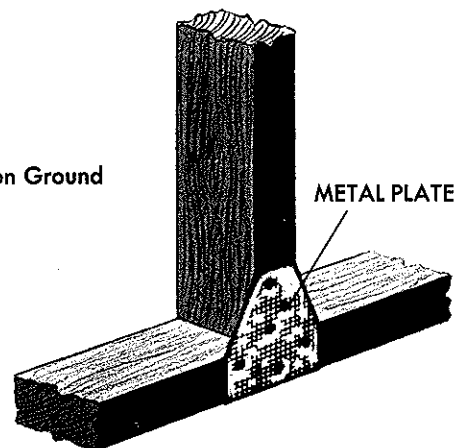
ANCHORAGE OF WALL TO SILL WITHOUT SHEATHING



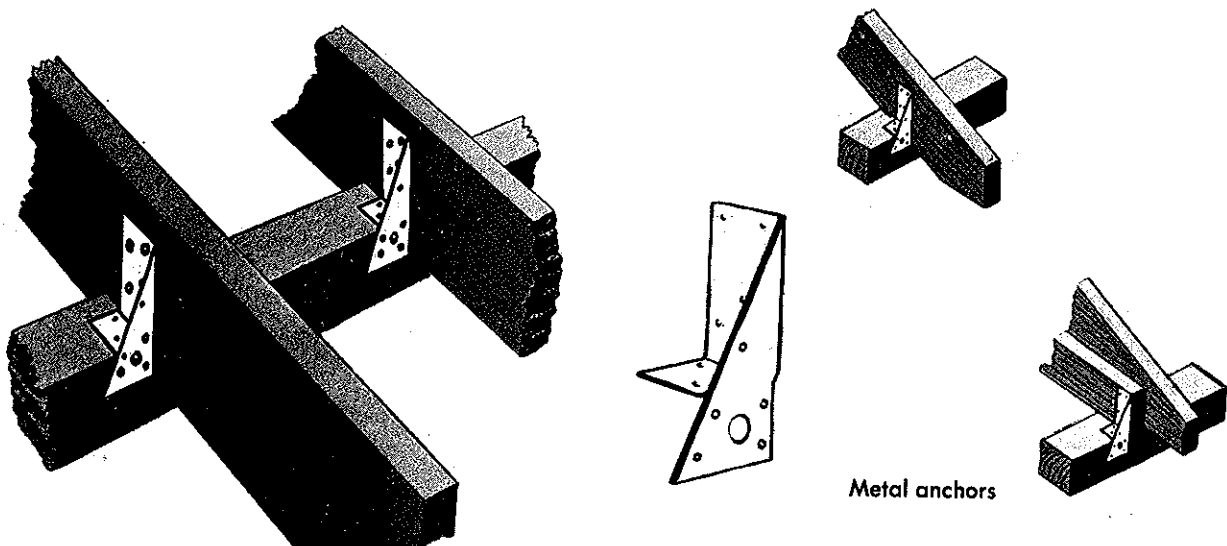
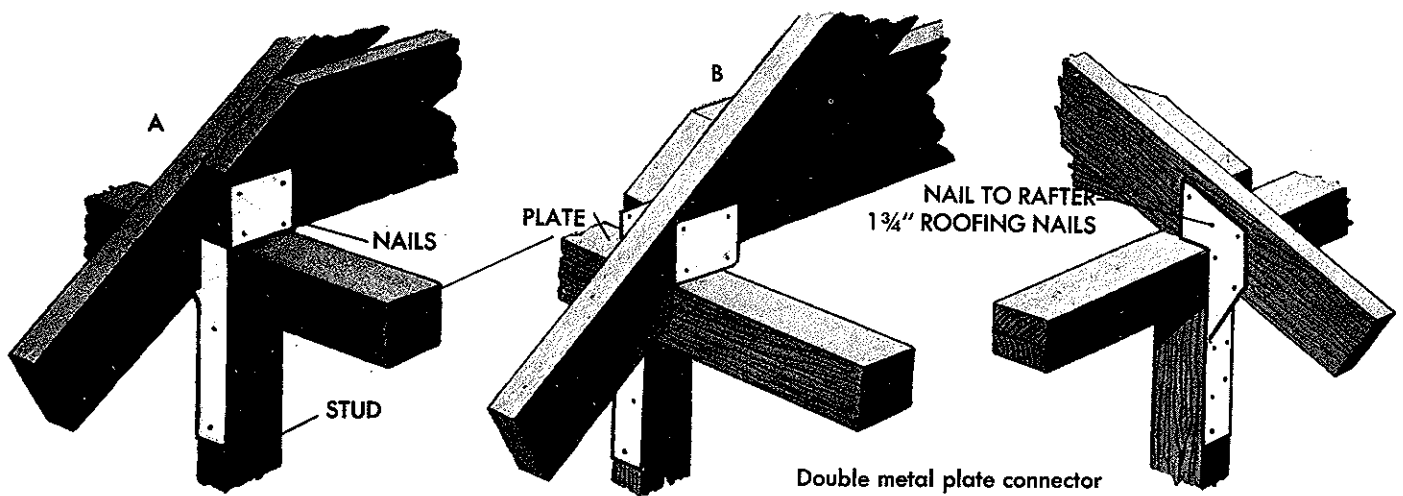
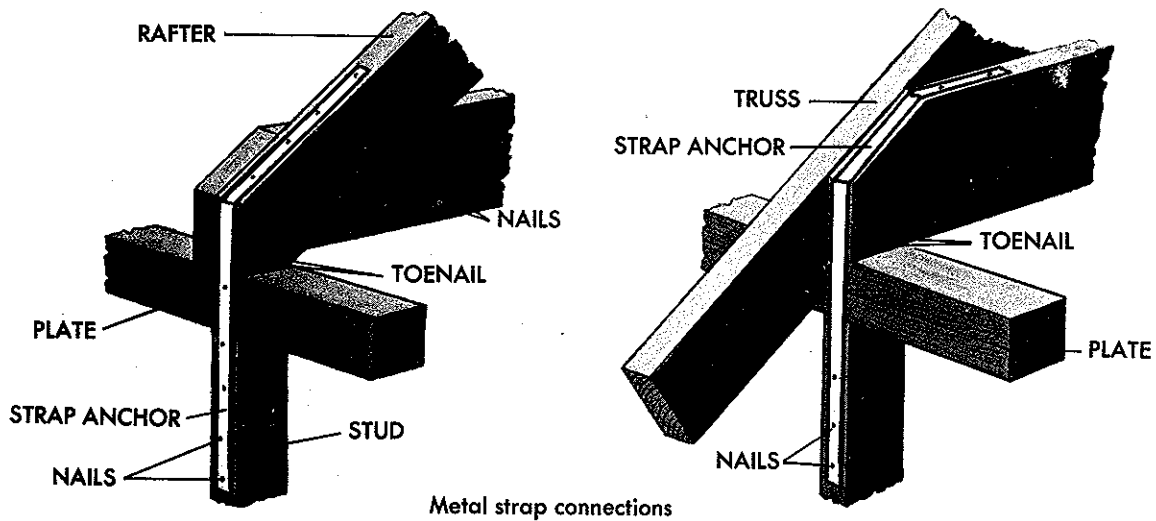
Stud wall to sill where nonstructural sheathing is used or does not extend to sill



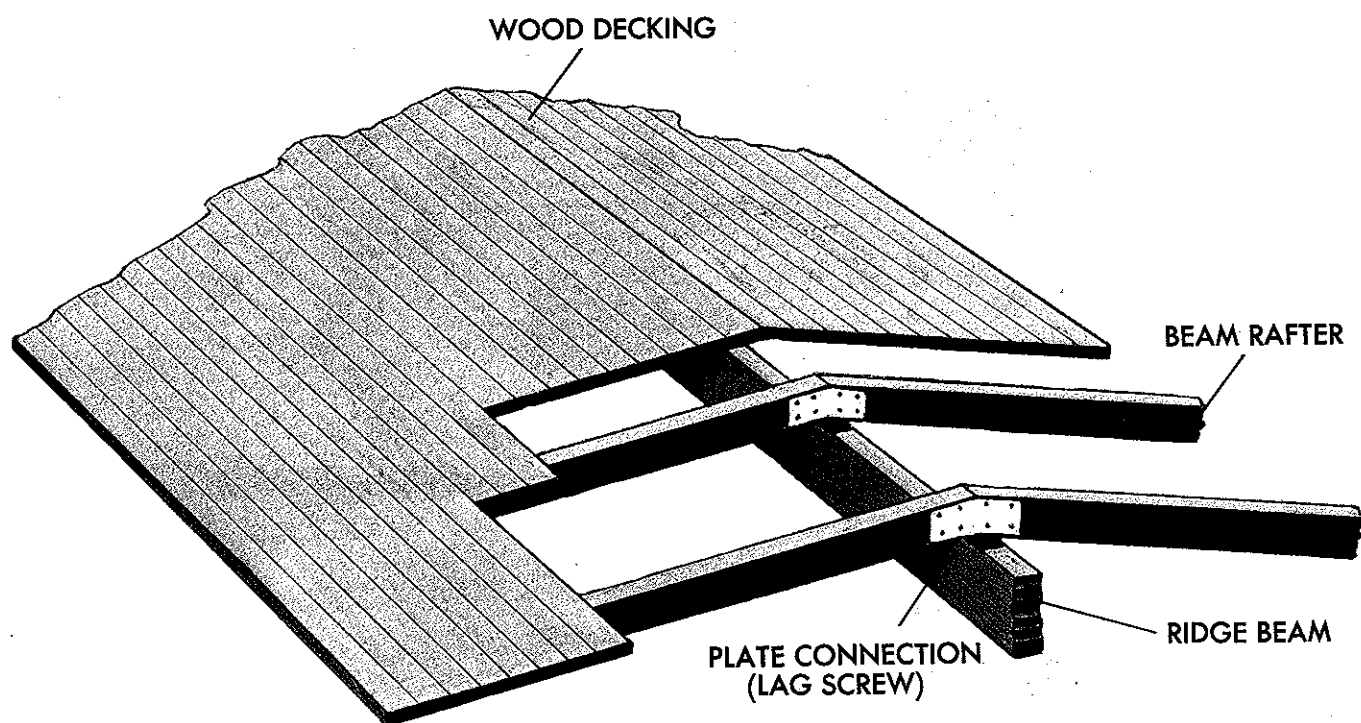
Stud to sill slab on Ground



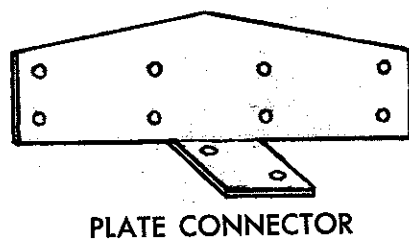
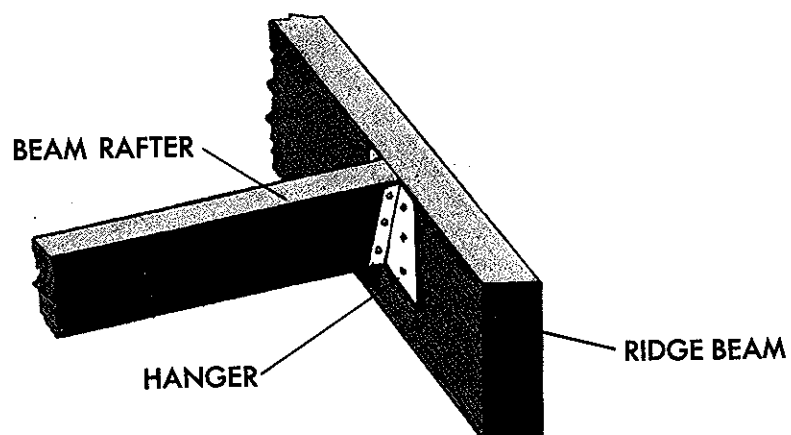
ANCHORAGE OF ROOF SYSTEM TO TOP PLATE



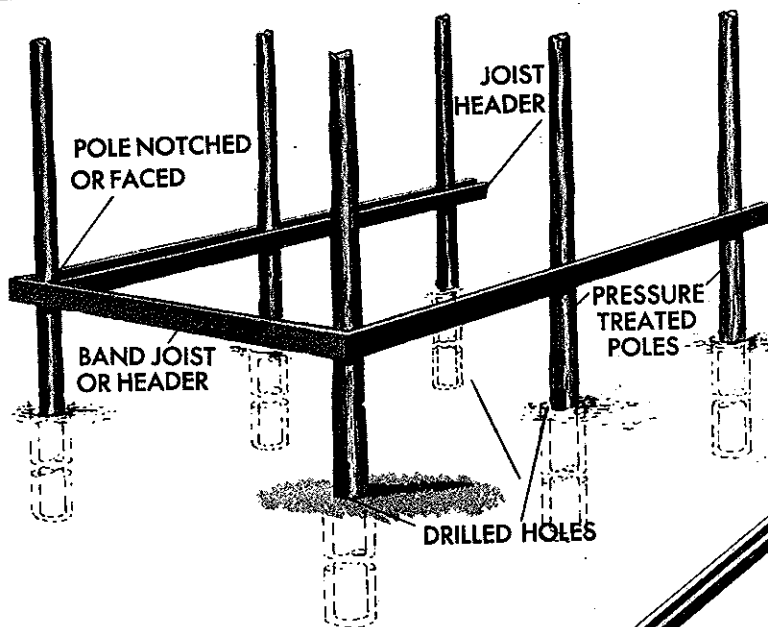
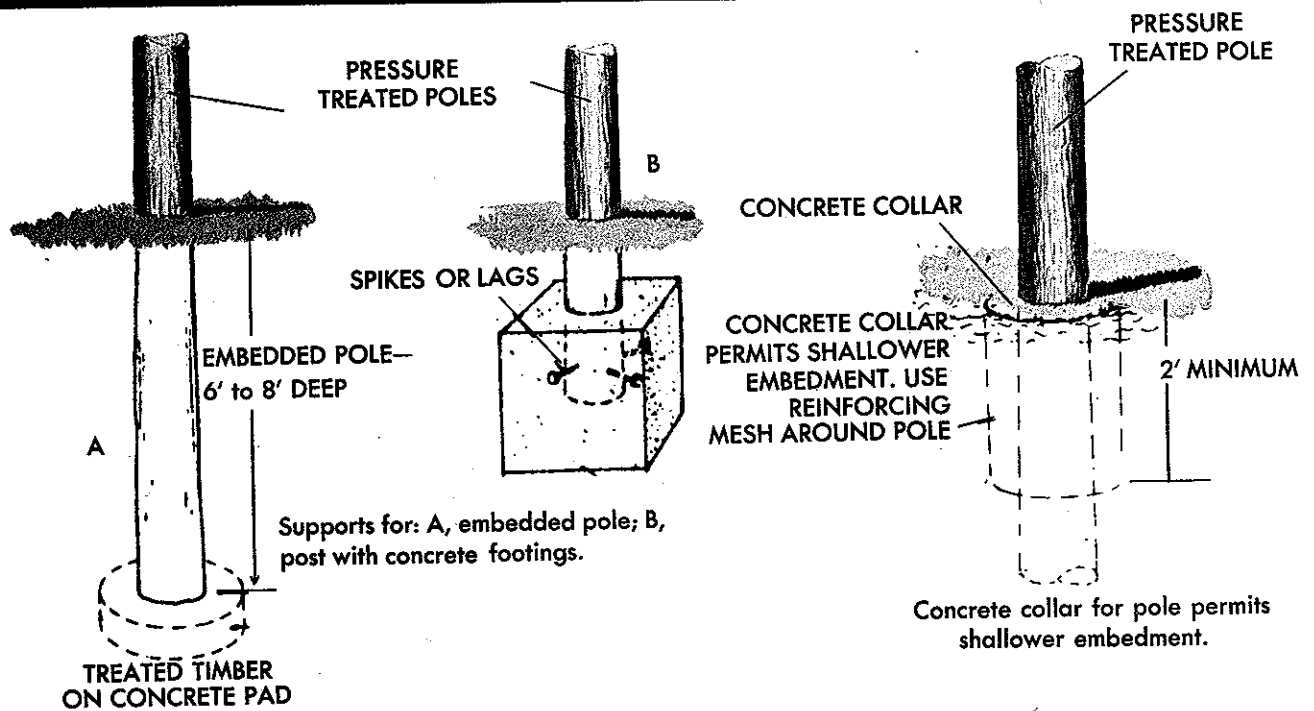
TYING RAFTERS TO RIDGE BEAMS WITH LOW-PITCHED ROOFS



Ridge beam anchorage.

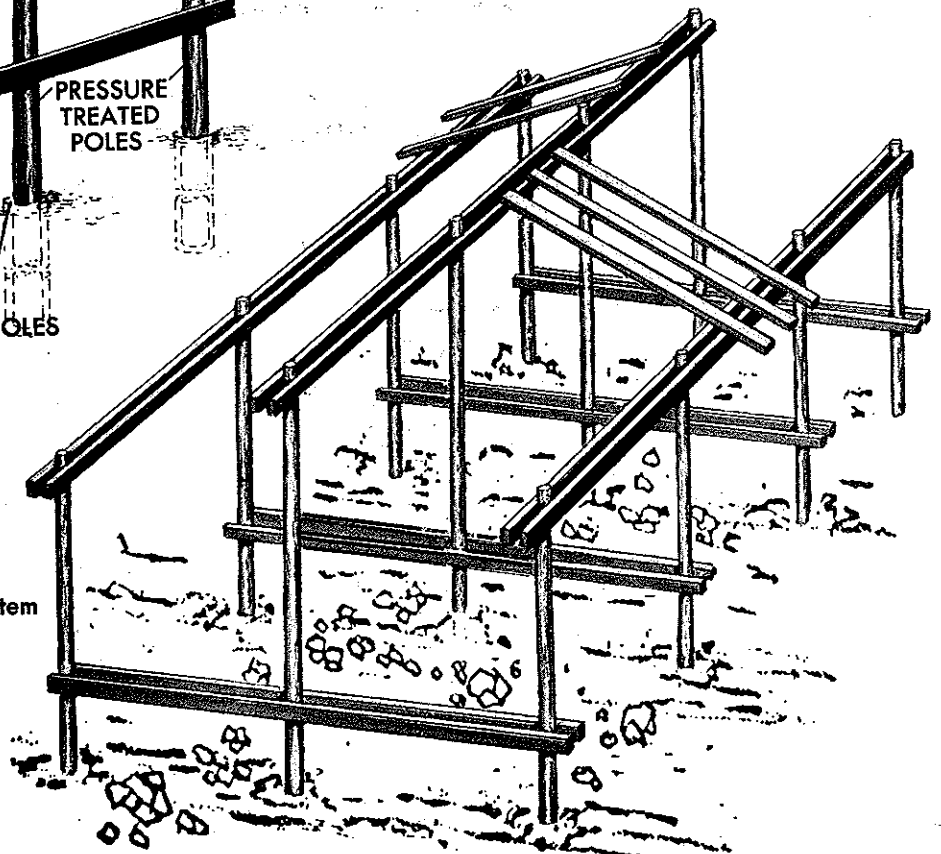


SAFETY FEATURES OF POLE-FRAME STRUCTURES

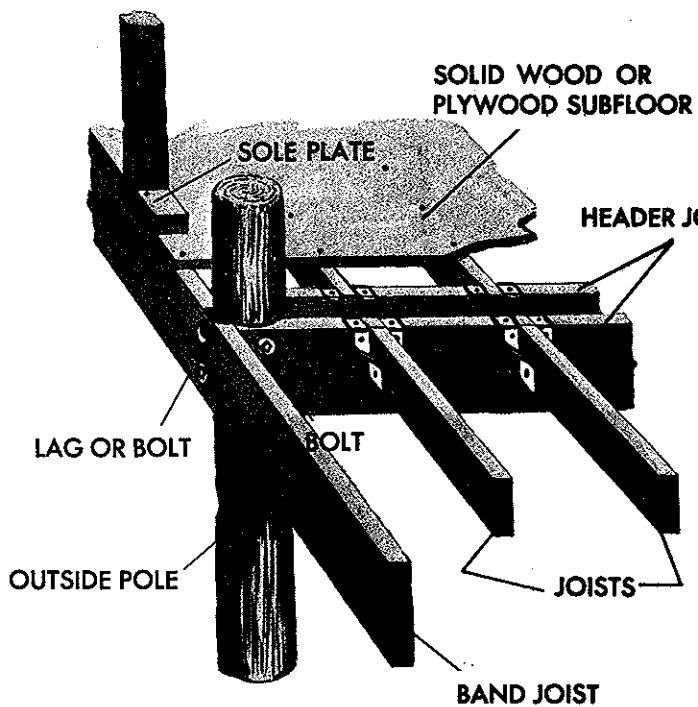
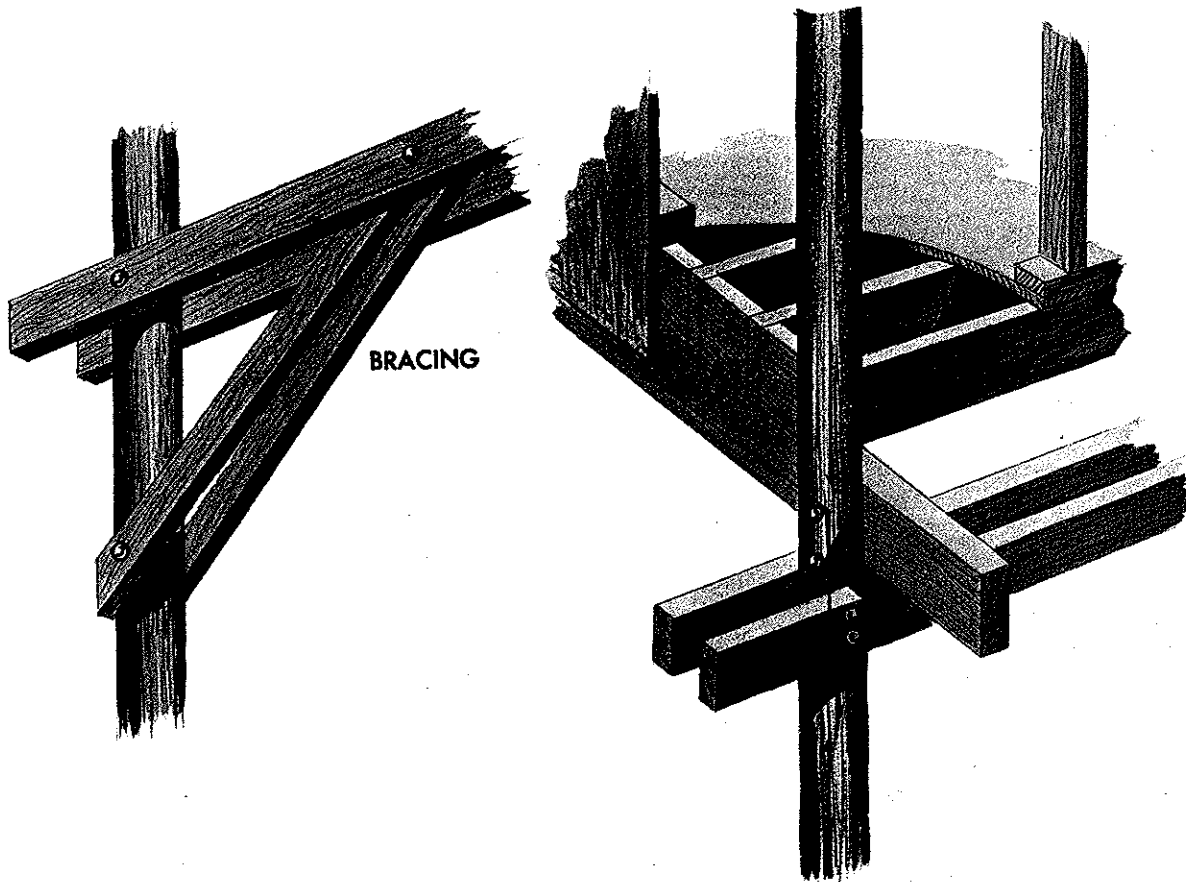


Embedment and alignment of poles. Depth of embedment depends on spacing and size of poles, wind loads, and so forth, and may vary from 5 to 8 feet.

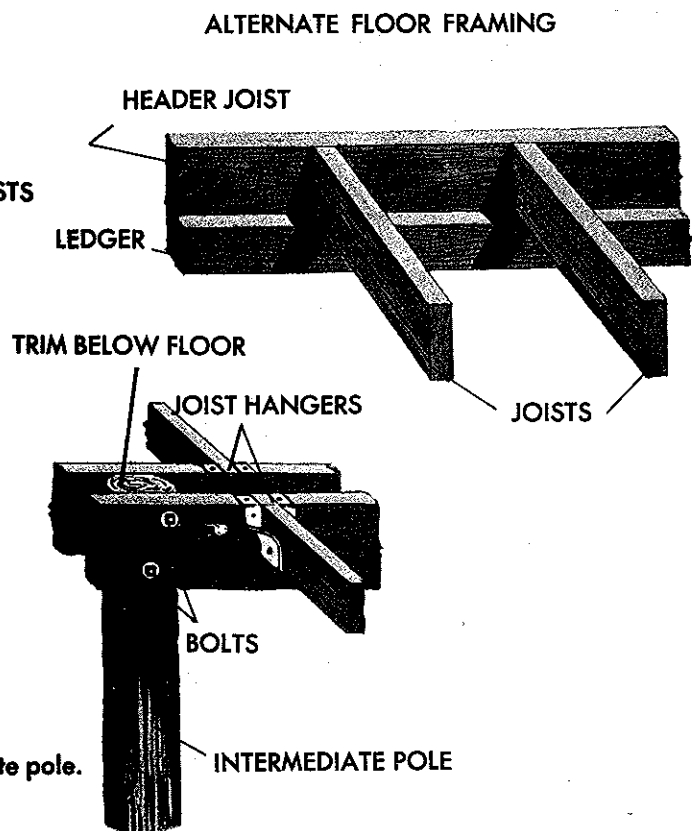
Isometric Illustration of Framing System



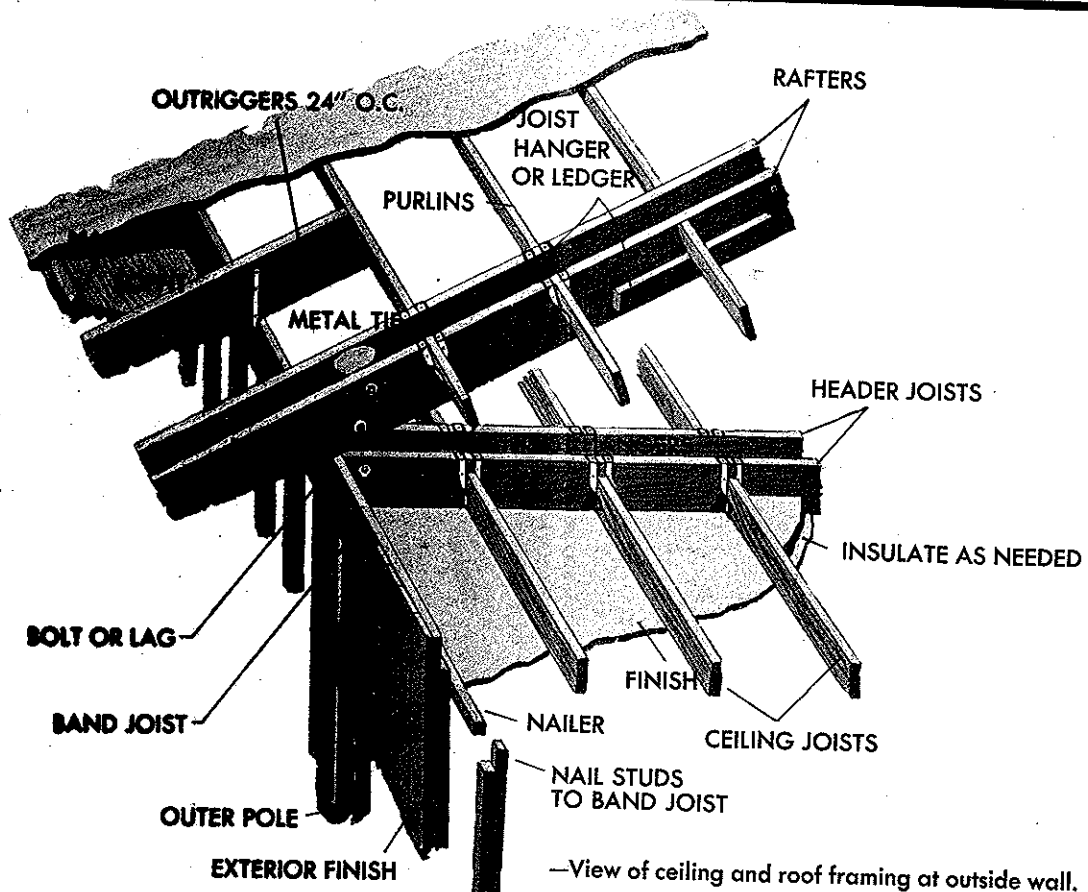
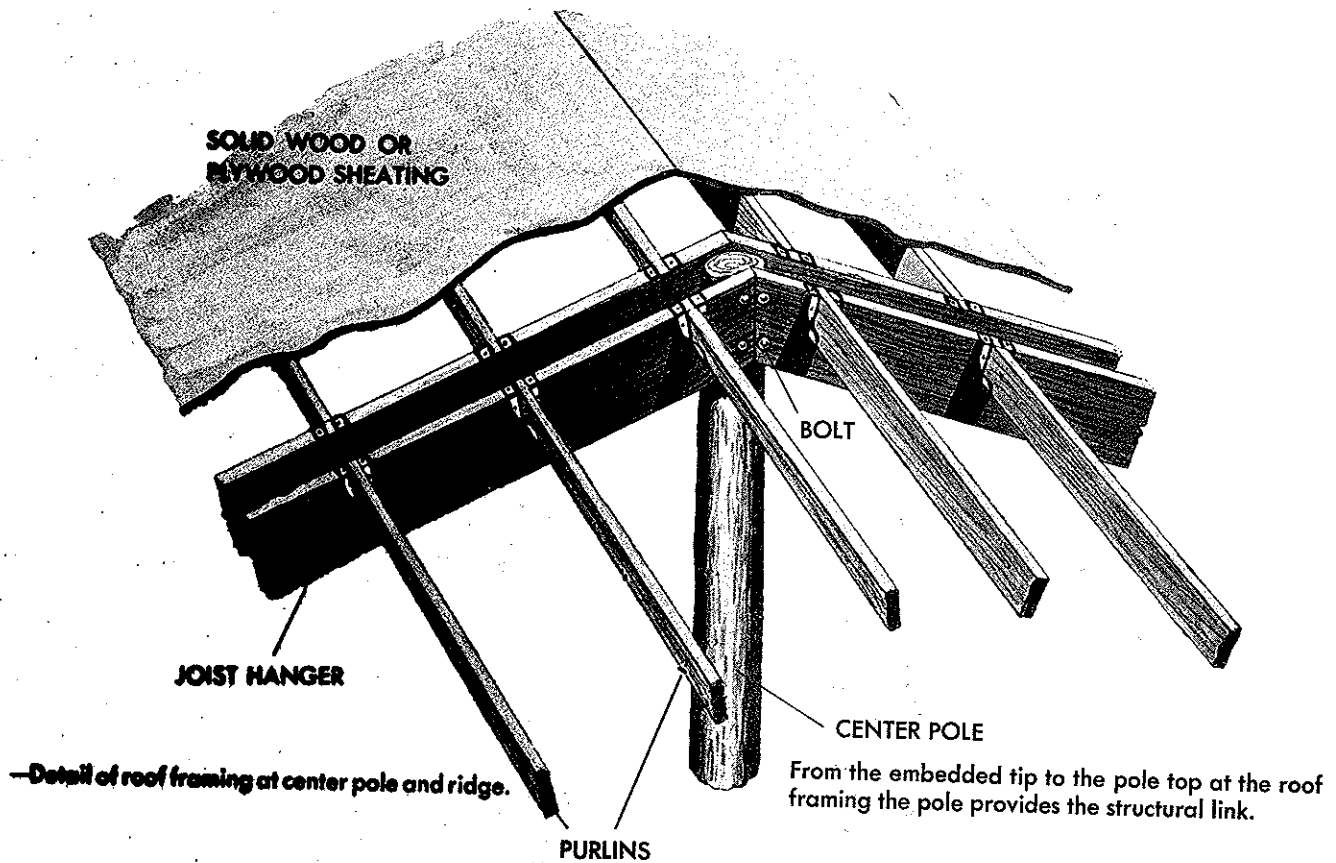
TYING FLOORS TO POLES



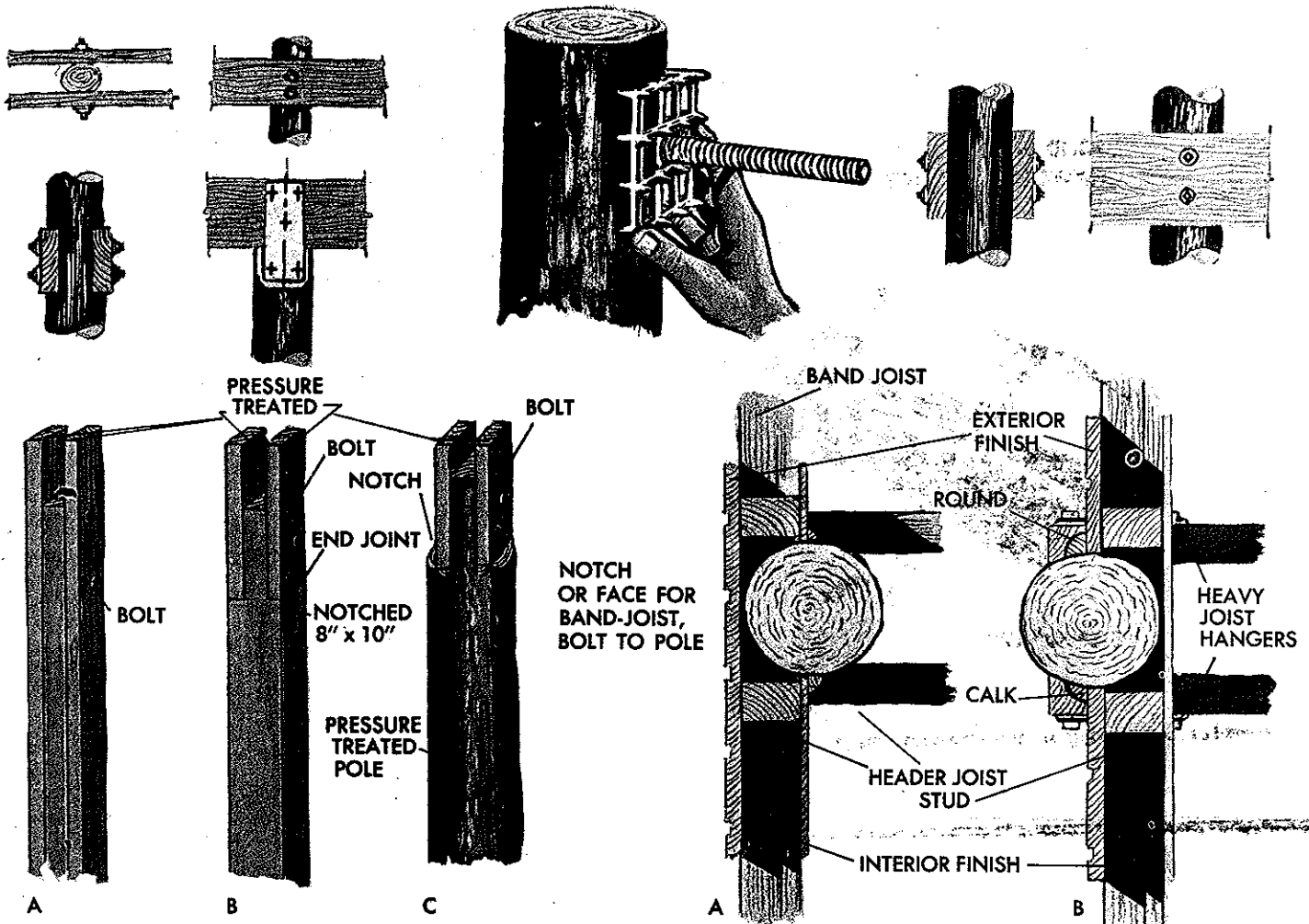
—Floor framing at outside pole and intermediate pole.



TYING ROOF TRUSSES, RAFTERS AND CEILING JOISTS TO POLES



CONSTRUCTION DETAILS



Connections for A, laminated timbers; B, notched solid timbers; and C, notched poles.

—Pole exposed on A, interior of the house; B, exterior.

FRAMING DETAILS

SUGGESTED REFERENCES:

- 1) "Houses Can Resist Hurricanes," FPL 33, Forest Products Laboratory, P. O. Box 5130, Madison, Wisconsin 53705 (Also from Southern Forest Products Association, P. O. Box 52468, New Orleans, Louisiana 70152)
- 2) "Pole House Construction," American Wood Preservers Institute 1651 Old Meadow Rd. McLean, Virginia 22101
- 3) "When The Wind Blows," American Plywood Association, 119 A Street, Tacoma, Washington, 98401.

