

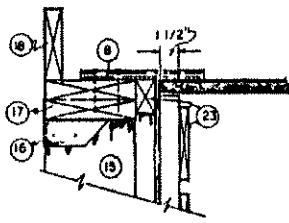
Mass Weight W	Initial Position of P	Final Position of P	Initial Position of Q	Final Position of Q	Initial Position of R	Final Position of R
M	Top	Bottom	Left	Right	Left	Right
2M	Top	Bottom	Left	Right	Left	Right

## ① WALL FOOTING SIZES & REINFORCING

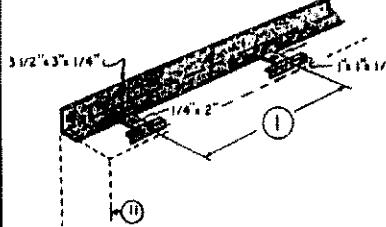
## WOOD STUD SIZES

STUD SIGHT HEIGHT IN		NO. OF 10" SAV. REQUIRING NAIL & STUD TO PLATE CONNECTION		NO. OF 10" SAV. REQUIRING NAIL & STUD TO PLATE CONNECTION	
STUD SPACING IN	STUD SIGHT HEIGHT IN	10	12	14	16
10	10	4	—	—	—
10	12	—	—	—	—
12	10	—	2	—	—
12	12	—	—	—	—
14	10	—	—	—	—
14	12	—	—	—	—
16	10	—	—	—	—
16	12	—	—	—	—
18	10	—	—	—	—
18	12	—	—	—	—
20	10	—	—	—	—
20	12	—	—	—	—

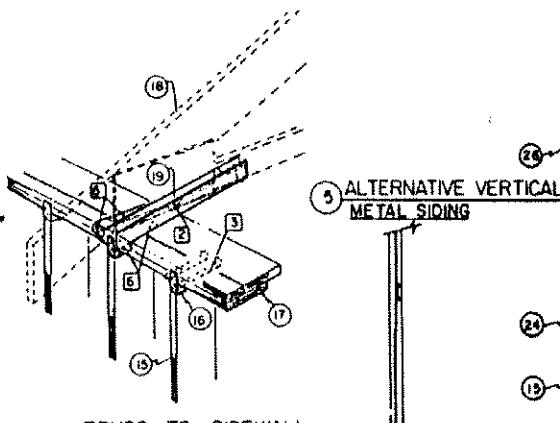
## **NAILING TABLE**



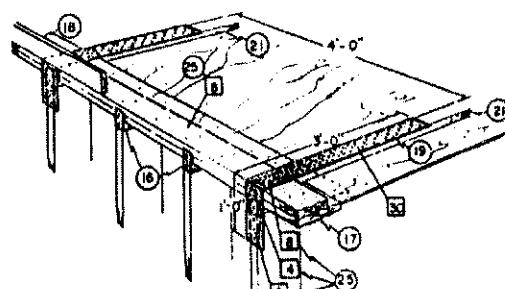
## ALTERNATIVE STEEL CEILING AT ENDWALL



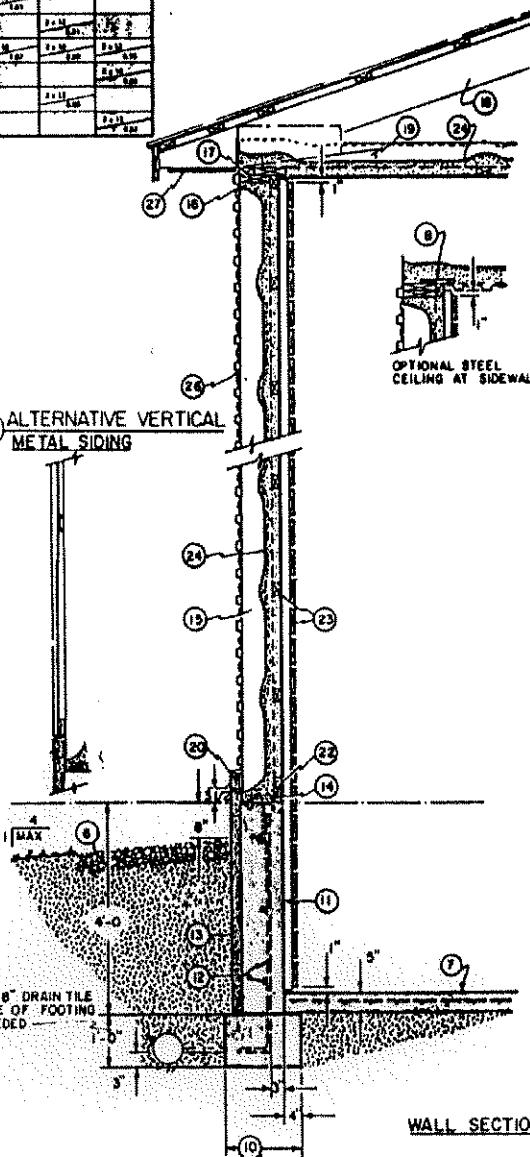
**⑨ PLATE ANCHOR EMBEDDED  
INTO TOP OF FOUNDATION**



## TRUSS - TO - SIDEWALL CONNECTION



**4 PLYWOOD CEILING  
AT ENDWALL**



**WALL SECTION**

1. Table of footing sizes and reinforcing
  2. Table of wood stud sizes assumes no vibration such as near railroad tracks that would induce additional settling as vegetables dry. Closer spacing of studs may be required for such situations.
  3. Nailing table, stud to plate and truss to plate
  4. Plywood ceiling at endwall
  5. Alternative vertical exterior metal siding on 2 x 4's; 4 strapping @ 1'-0" o.c.m.s.
  6. 30" x 4" deep coarse gravel splash pad
  7. Concrete floor, on compacted gravel or sand fill, 6/6 wire mesh
  8. 3/4" plywood blocking between trusses, 3 1/2" spiral nails to ① same spacing as adjacent ceiling screws
  9. Welded steel anchor continuous, painted with rustproof primer; for 1/2" x 1'-0" anchor bolt spacing, see ①.  
Note: Commercial heavy duty galvanized fasteners are a better alternative. They are available at less cost and would require less labor
  10. Footing width, see table ①
  11. Concrete foundation wall, width = stud size + 2"; vertical control joints @ 30'-0" o.c.
  12. No.5 rebars, see ① for spacing
  13. 2" rigid, water-resistant insulation (i.e. polystyrene) with a V.B. resistance toward the outside and an abrasion resistant outside protective sheet of material.
  14. 2" x stud width, CCA pressure-treated sill anchor and concrete foundation with 3/8" bolts spaced as shown on ①
  15. studs, see ② for size and spacing
  16. heavy duty joist hanger at each stud to plate connection, nail as per ③
  17. Bottom plate same size as studs, top plate 4" wider, joints staggered 8'-0" o.c.
  18. roof trusses @ 4'-0" or less, increase lower chord for "Plate Force" in ④
  19. 20 ga. x 4" galv. pre-bent steel strap, number of 1 1/2" galv. large-head roofing nails to framing indicated as □  
Note: Commercial connectors may be used.
  20. 2 x 4 pressure-treated nailing for ⑤ plywood splices @ stud
  21. 16'-0" long girts @ endwall
  22. 2 x 6 CCA-pressure-treated base-strapping, 2-3 1/2" galv. spiral nails to each stud and sill ⑥
  23. 2 x 3 horizontal strapping @ 2'-0" o.c.; 5/16" plywood sheathing, face grain vertical; 2 x 3 vertical strapping at each stud; 1 x 6 slatting (1" spaces)
  24. R-28 insulation with a vapor barrier on the outside.
  25. □ denotes number of spiral nails for plate and strap nailing.
  26. horizontal exterior metal siding screwed to studs, over asphalt felt windproofing
  27. 1" soffit, 2" screened vent slot

**COOPERATIVE EXTENSION SERVICE  
AGRICULTURE AND HOME ECONOMICS**

UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING		AND
<b>REFRIGERATED BULK VEGETABLE STORAGE WALL</b>		
CAN. '87	6388	SHEET   OF
<b>DRAWINGS NOT TO SCALE</b>		