BILL OF MATERIALS

CONCRETE 1:2½:5 Mix
Cement 135 sacks
Sand 12.5 cu yards
Gravel 25 cu yards

LUMBER
4" x 4" x 10'-0" 6 ea. posts, feed rack.
4" x 4" x 8'-0" 29 ea. posts, well.
2" x 12" x 20'-0" 5 ea. hip & valley rafters.
2" x 10" x 12'-0" 9 ea. feed rack.
2" x 8" x 12'-0" 39 ea. girders, feed rack.
2" x 6" x 18'-0" 7 ea. ties.
2" x 6" x 16'-0" 48 ea. rafters.
2" x 6" x 14'-0" 52 ea. rafters, diagonal truss tie.
2" x 6" x 12'-0" 59 ea. sills, plates, girts, feed rack, knee braces.
2" x 6" x 10'-0" 6 ea. knee braces.
2" x 6" x 8'-0" 39 ea. posts, built up & collar beams.
2" x 4" x 12'-0" 72 ea. girt, feed rk., win. frames, ties.
2" x 4" x 8'-0" 50 ea. feed rack, win. & dr. framing.
1" x 8" x 12'-0" 35 ea. ridge board & feed rack.
1" x 8" x 8'-0" 5 ea. knee brace ties.
1" x 6" x 14'-0" 8 ea. diagonal brace.
1" x 6" x 12'-0" 9 ea. feed rack.
1" x 6" T. & G. 1800 board ft. siding.
1" x 6" Board 3800 board ft. & roof sheathing.

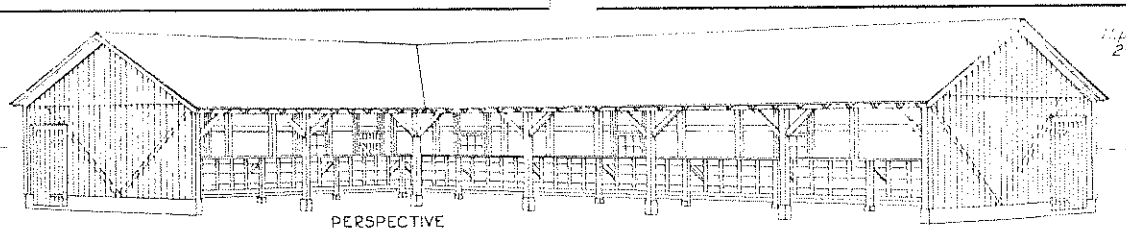
MILLWORK
3'-6" x 7'-0" Door frames with trim - 3 ea.
2'-8" x 2'-5" 6 Light barn sash with frames and outside casing - 7 each.

ROOFING 31 Squares

METAL WORK

⅜" x 14" Anchor bolts	32 each
⅜" x 8" Anchor bolts	28 each
½" x 4½" Lag screws	10 each
⅜" x 3" Lag screws	24 each
3/16" x 1¼" x 20" Strap anchors	12 each
¼" x 1½" x 30" Strap anchors	5 each
12" Tee hinges	3 pair
5" Gutter	72 linear ft.
4" Leader	18 linear ft.
4" 45° Leader elbows	6 each
16d Common nails	170 lbs.
8d Common nails	150 lbs.

Paint, 6 gallons


PERSPECTIVE

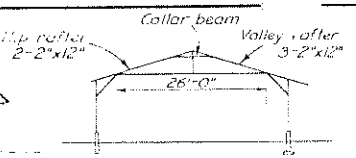
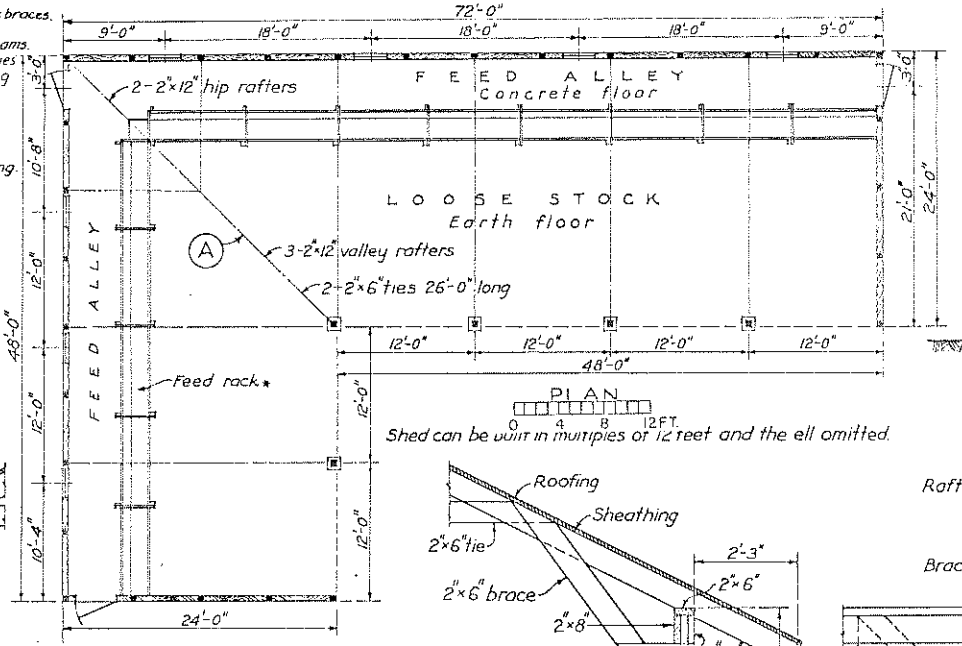
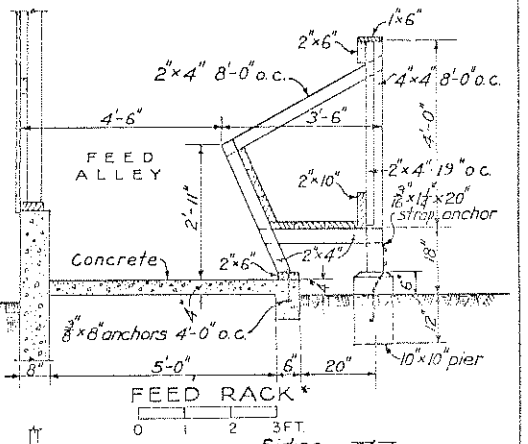
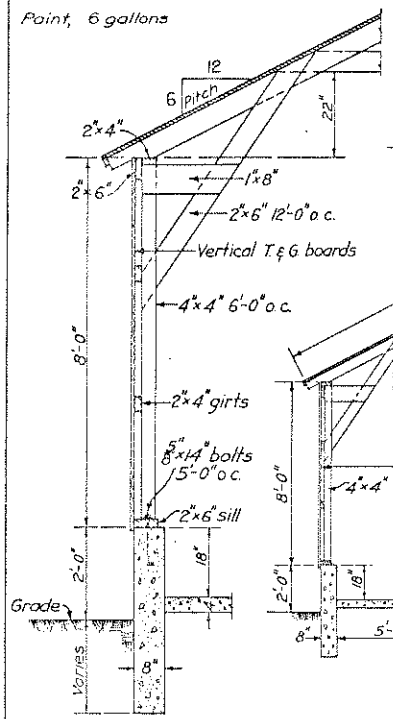


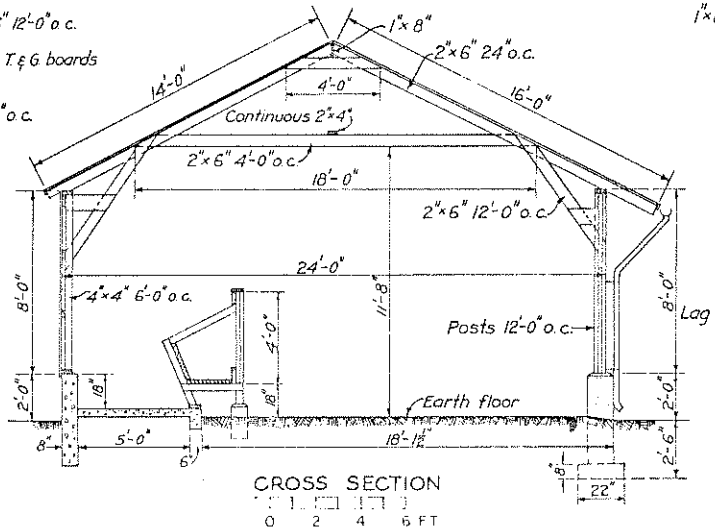
DIAGRAM OF DIAGONAL TRUSS (A)



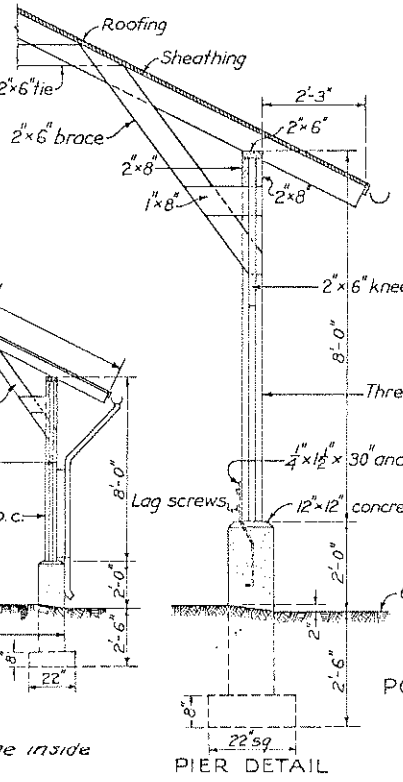
Shed can be built in multiples of 12 feet and the ell omitted.

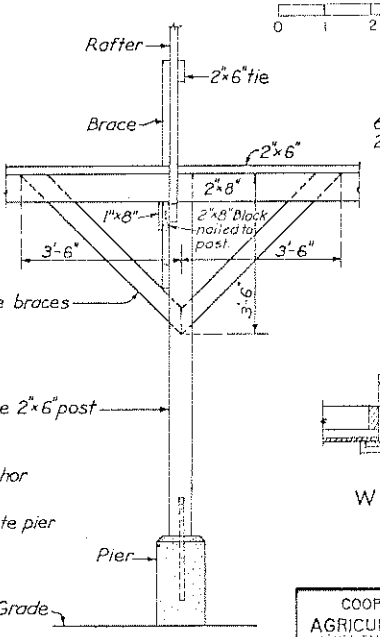




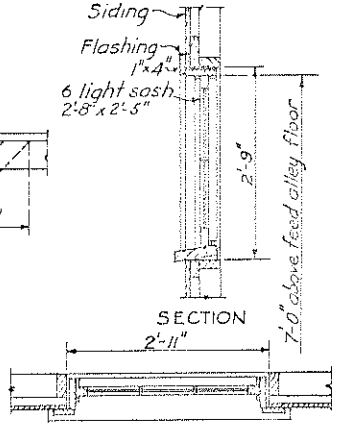


*Note: omit feed racks unless feeding will be done inside





POST AND PIER DETAILS
0 1 2 3FT



WINDOW DETAILS
0 1 2 FT

REVISED '52

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AGRICULTURE AND HOME ECONOMICS
DEPARTMENT OF AGRICULTURAL ENGINEERING
UNIVERSITY OF MARYLAND
AND
UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

CATTLE SHED

USDA '47	EX. 5857	SHEET 1 OF 1