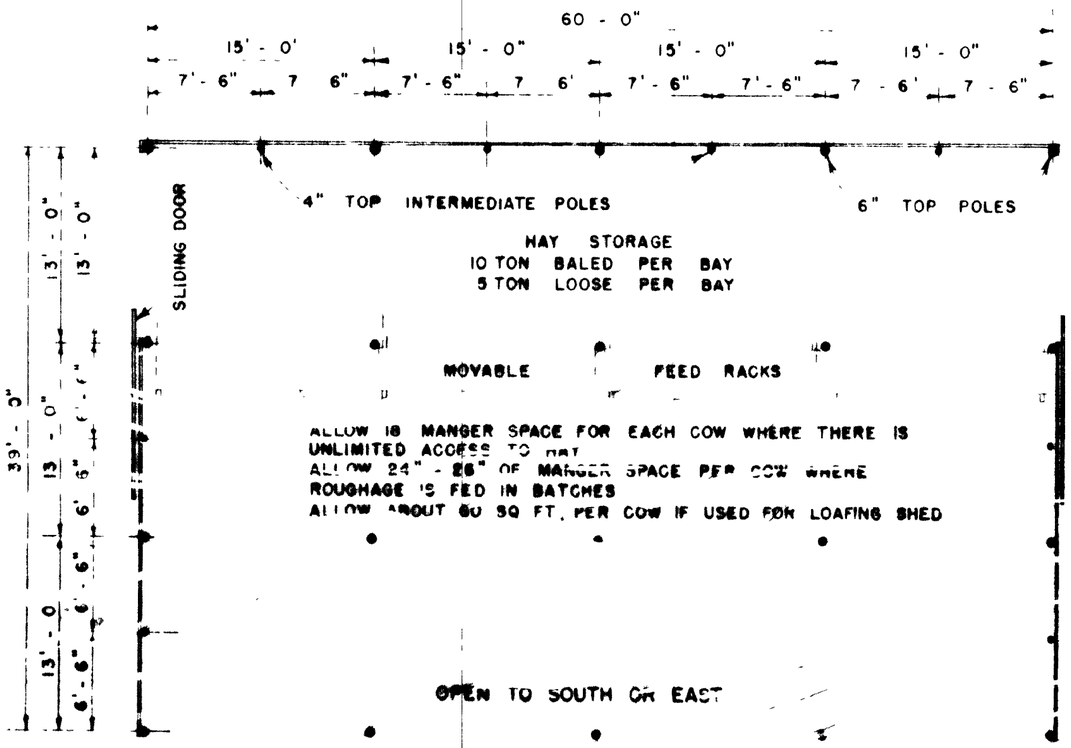
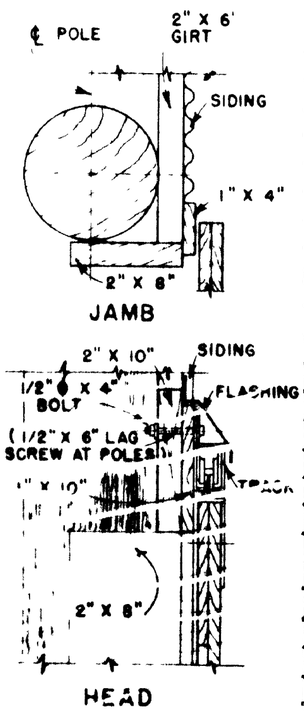
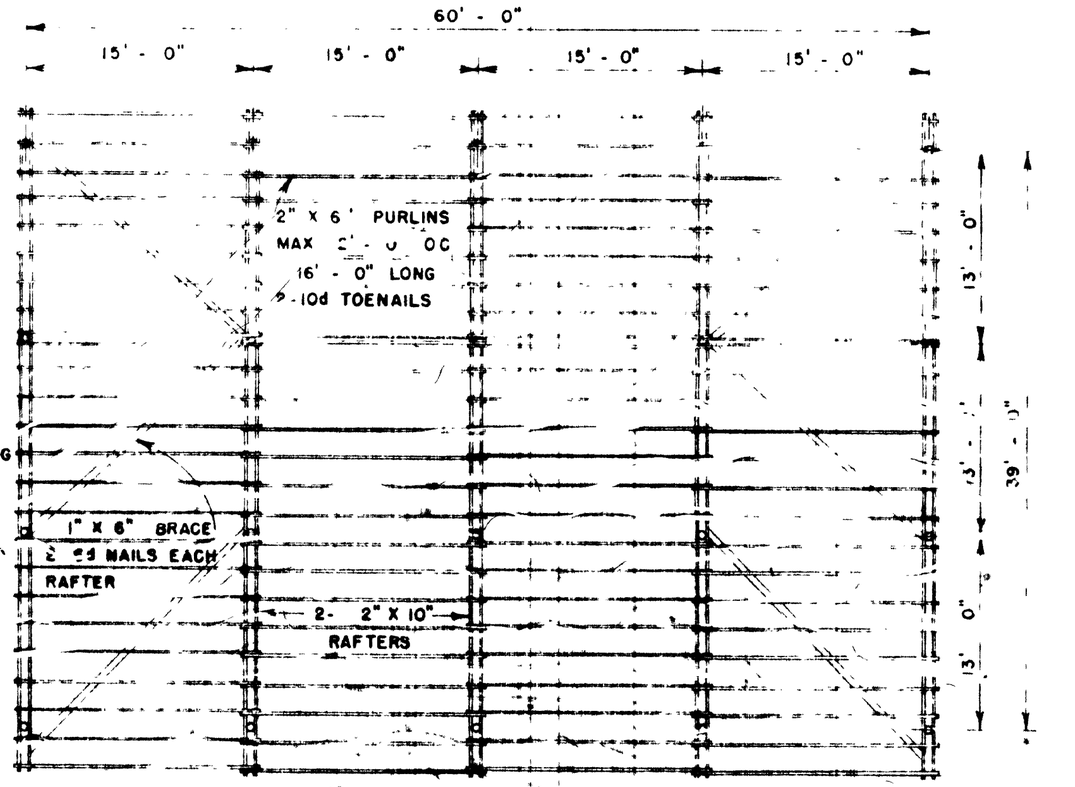


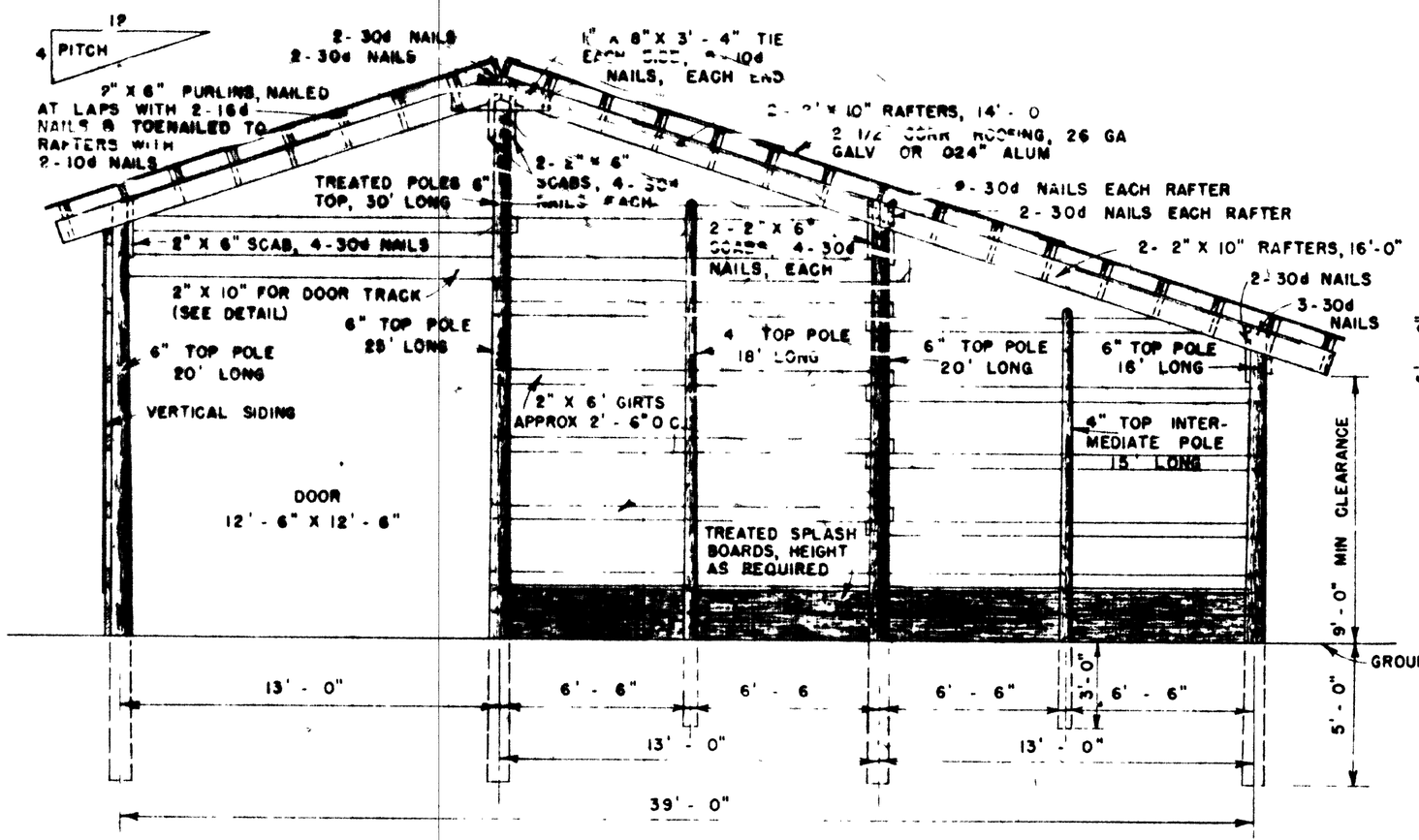
FLOOR PLAN
SCALE 1/8" = 1' - 0"



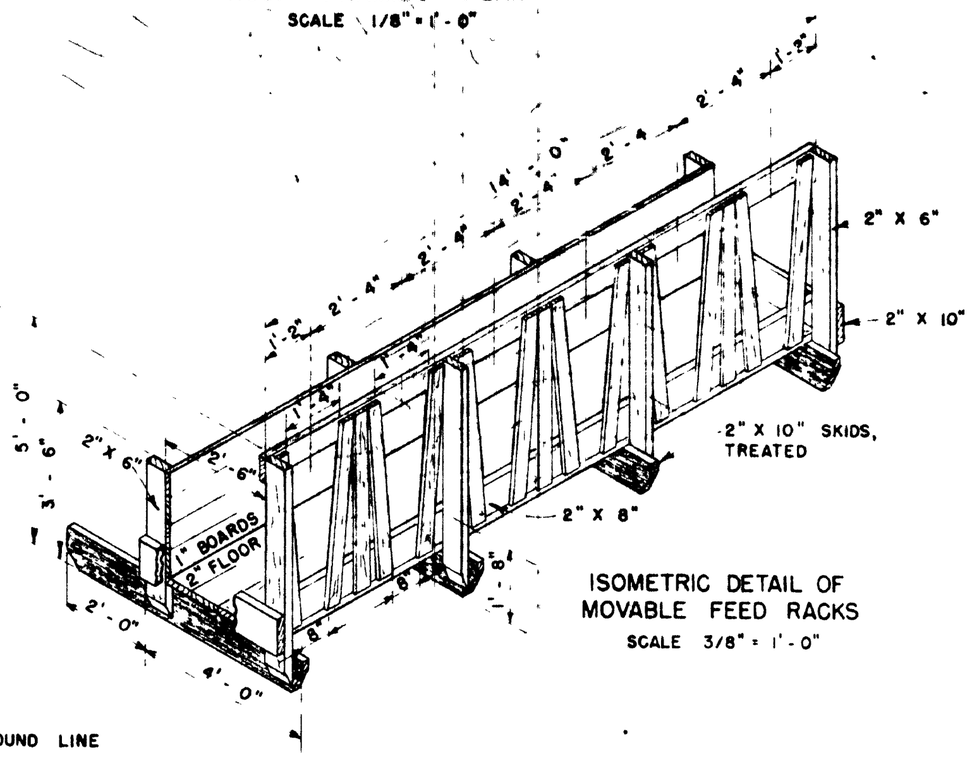
DOOR DETAIL
SCALE 1 1/2" = 1' - 0"



ROOF FRAMING PLAN
SCALE 1/8" = 1' - 0"



CROSS SECTION SHOWING END WALL FRAMING
SCALE 1/4" = 1' - 0"



ISOMETRIC DETAIL OF MOVABLE FEED RACKS
SCALE 3/8" = 1' - 0"

NOTE

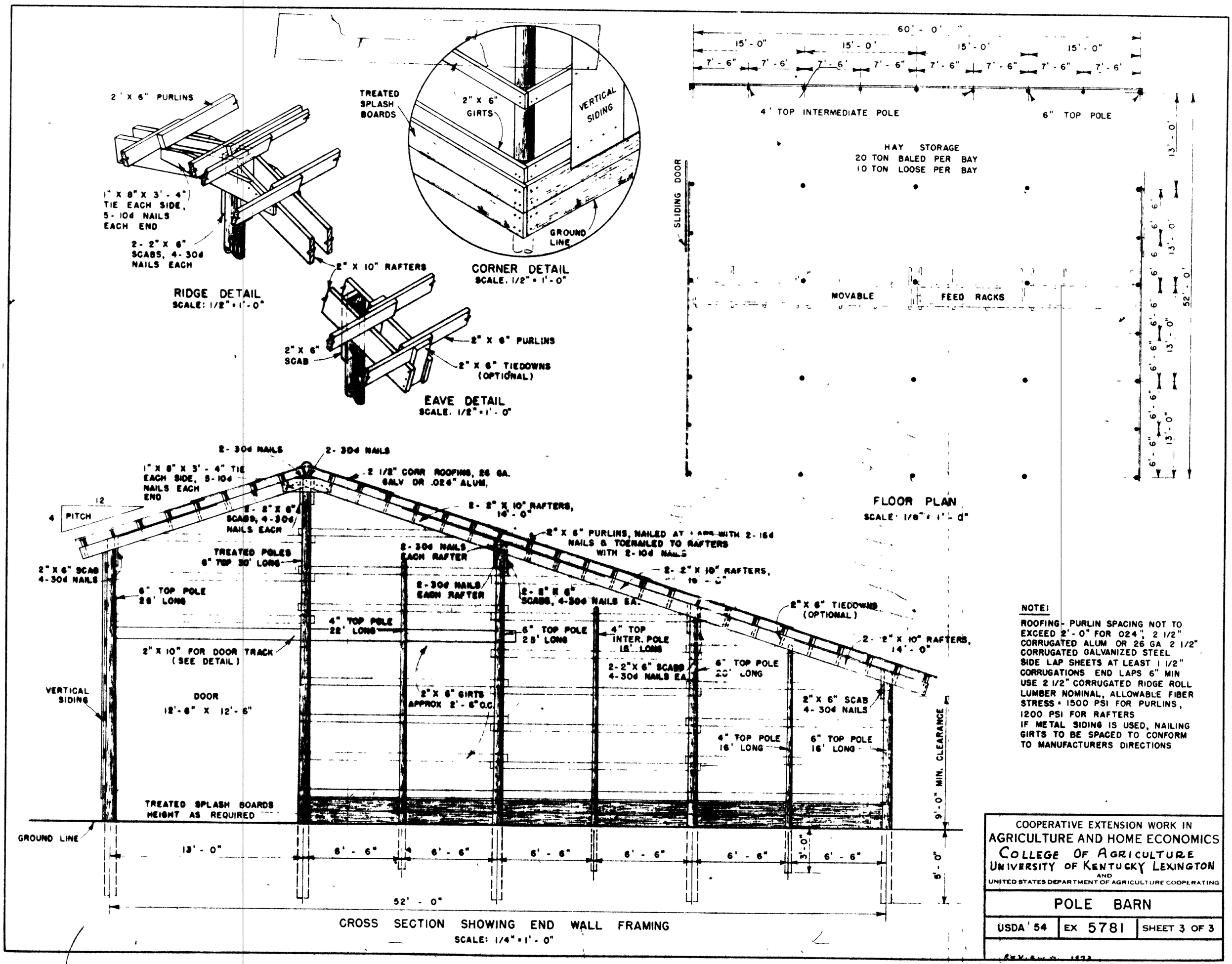
IF IN THE FUTURE THIS BARN IS TO BE WIDENED TO 52' AS SHOWN ON SHEET 3, USE LONGER POLES AS SHOWN ON SHEET 3

COOPERATIVE EXTENSION WORK IN
AGRICULTURE AND HOME ECONOMICS
COLLEGE OF AGRICULTURE
UNIVERSITY OF KENTUCKY, LEXINGTON
AND
UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

POLE BARN

USDA '54	EX 5781	SHEET 2 OF 3

REVISED 1958



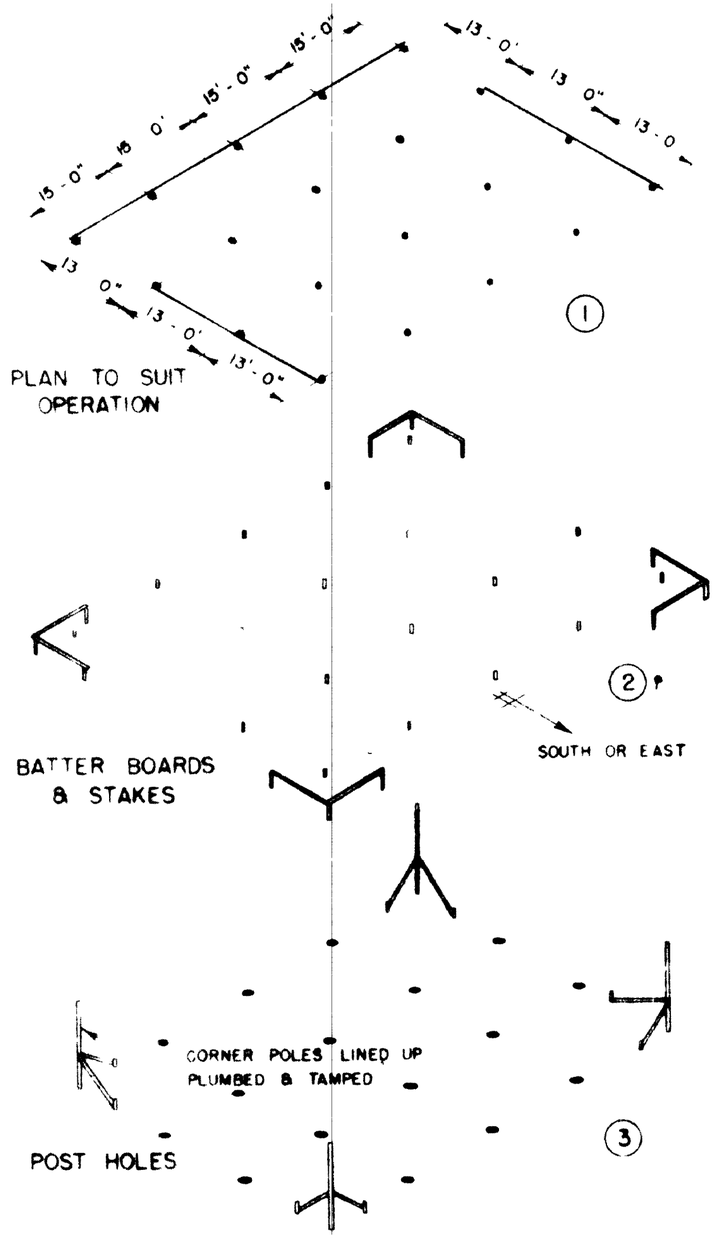
NOTE:

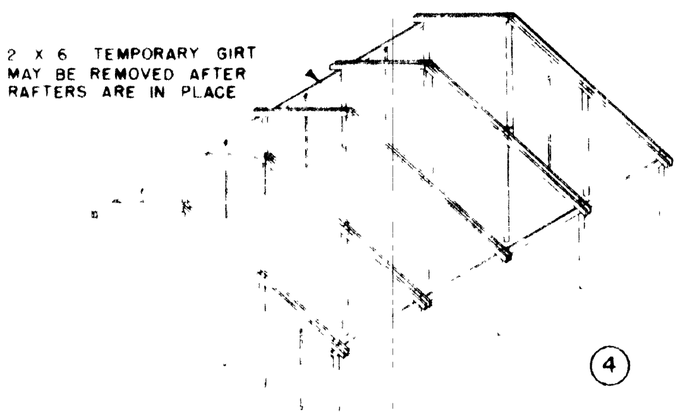
ROOFING - PURLIN SPACING NOT TO EXCEED 2'-0" FOR .024", 2 1/2" CORRUGATED ALUM OR 26 GA 2 1/2" CORRUGATED GALVANIZED STEEL SIDE LAP SHEETS AT LEAST 1 1/2" CORRUGATIONS END LAPS 6" MIN USE 2 1/2" CORRUGATED RIDGE ROLL LUMBER NOMINAL, ALLOWABLE FIBER STRESS = 1500 PSI FOR PURLINS, 1200 PSI FOR RAFTERS IF METAL SIDING IS USED, NAILING GIRTS TO BE SPACED TO CONFORM TO MANUFACTURERS DIRECTIONS

COOPERATIVE EXTENSION WORK IN
AGRICULTURE AND HOME ECONOMICS
COLLEGE OF AGRICULTURE
UNIVERSITY OF KENTUCKY LEXINGTON
AND
UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

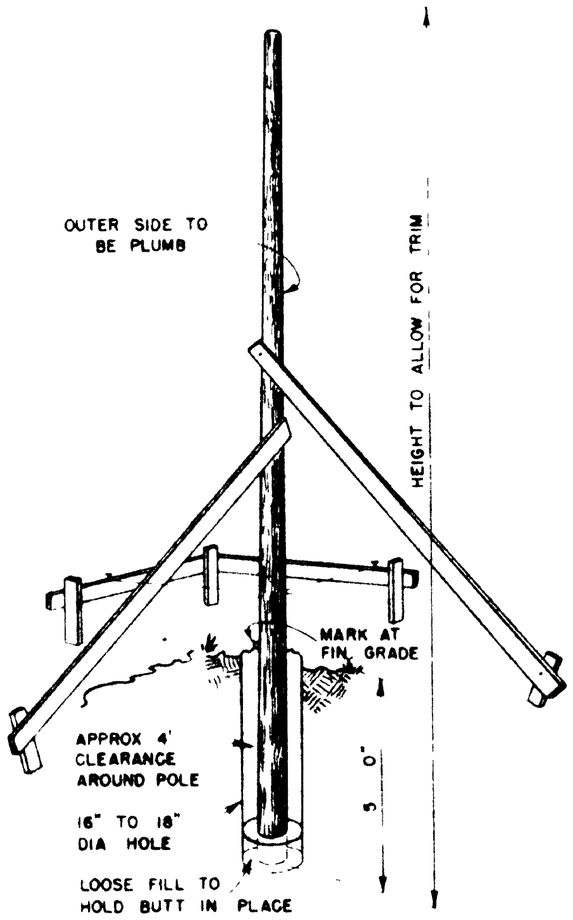
POLE BARN

USDA '54	EX 5781	SHEET 3 OF 3

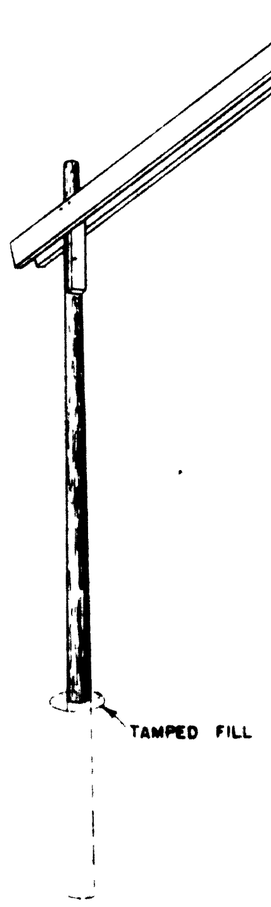




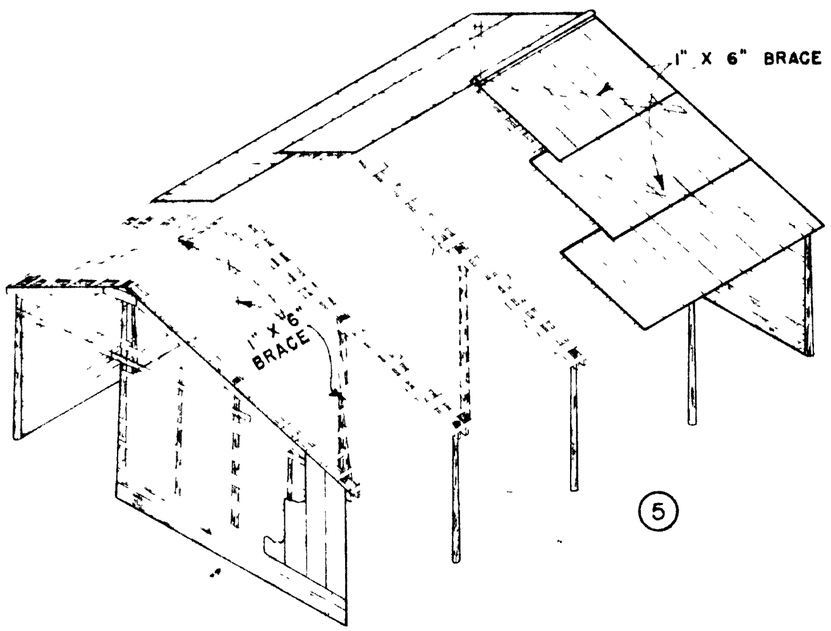
ERECTION OF BALANCE OF POLES & RAFTERS



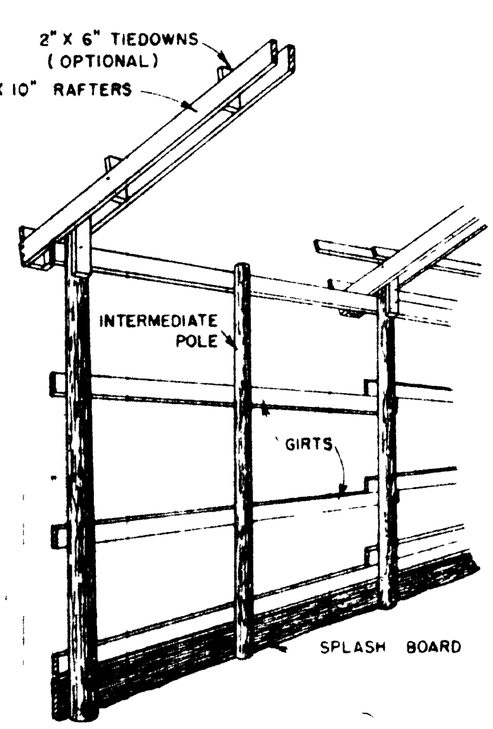
POST HOLE & BRACED POLE



POLE & RAFTERS



PURLINS, GIRTS, ROOFING & SIDING



POLES, RAFTERS, PURLINS & GIRTS

NOTE

ALL POLES & SPLASH BOARDS TO BE PRESSURE-TREATED WITH PRESERVATIVE

NOTE

THIS BUILDING IS DESIGNED FOR AREAS OF THE SOUTHERN UNITED STATES WHERE THE SNOW LOAD DOES NOT EXCEED 10# PER SQ FT & WIND DOES NOT EXCEED 88 MI PER HOUR
IN A FEW AREAS, SUCH AS NORTHERN VIRGINIA & WESTERN KENTUCKY WHERE SNOW LOADS EXCEED 10# PER SQ FT, 2" X 12" RAFTERS SHOULD BE USED INSTEAD OF THE 2" X 10" RAFTERS SHOWN & PURLINS SHOULD BE SPACED 16" OC INCREASE NUMBER OF 30d NAILS IN RAFTER TO POLE CONNECTIONS 50%
IT SHOULD NOT BE USED IN OTHER AREAS WITHOUT REDESIGNING FRAMING TO MEET LOCAL CONDITIONS

NOTE

THIS BARN MAY BE BUILT IN ANY LENGTH DESIRED IN UNITS OF 15'-0"

COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS
COLLEGE OF AGRICULTURE
UNIVERSITY OF KENTUCKY, LEXINGTON
AND
UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

POLE BARN

USDA '54	EX 5781	SHEET 1 OF 3