Important: Warranty Disclaimer for Plans

For the convenience of our clientele, this website makes available conceptual plans that can be helpful in planning buildings, facilities, or other structures. They were developed over many years by engineers at Land Grant universities through the former USDA Cooperative Farm Buildings Plan Exchange. Regardless of the original intent, these are older plans that provide conceptual information only, and are not to be considered or used as construction plans.

These plans do not claim to represent the most current technology or the most recent construction techniques, standards, or codes. For example, over the years there have been changes in the National Design Specifications for Wood Construction, changes in the strengths and types of building materials, and changes in fasteners, among other things. Those changes, along with variations in climate, building codes, and other factors, make it imperative that professional services be utilized for your specific project. Suggested services include, but are not limited to, structural design, assurance of compliance with codes and regulations, site selection, construction supervision, and provision for utilities, waste management, and access. These plans do not replace the need for competent design assistance in developing safe, legal, and well-functioning agricultural buildings and systems.

Neither the University of Kentucky, the Midwest Plan Service, the United States Department of Agriculture, nor any of the cooperating Land Grant universities, warranty these plans. They are for conceptual use only and are not for use as construction plans.
NOTES

Slight switch to 100 WATT INCANDESCENT FIXTURE.
LUMBER EQUAL TO SELECT STRUCTURAL DOUGLAS.
AIR SHOULDN'T BE USED. LUMBER SHOULD BE SELECTED
WHICH IS FREE OF KNOTS. OTHER DEFECTS MIGHT
DEFECTS SHOULDN'T BE LOCATED IN UPPER 1/3 OF
RAFTERS OR LOWER 1/3 OF STUD

BUILDING ANY DESIRED LENGTH

PLAN
SCALE 36" = 1'-0"

SEE GUSSET DETAIL

TWO COATS OF WHITE PAINT
ON ALL FRAMING

EXHAUST VENT WITH
BACK DRAFT SHUTTER

FURNACE

THERMOSTAT TO BE LOCATED 12" ABOVE
GROUND APPROXIMATELY ONE HALF THE
DISTANCE BETWEEN FAN HEATER AND END
OF HOUSE

AIR INTAKE, EACH END

2 X 4 STUDS 4'-0" O.C.

2 X 4 PLATE

2 X 4 STAKE 1'-0" IN GROUND

2 X 4 STAKES 1'-0" IN GROUND

4 MIL POLYETHYLENE

2 X 2 RIDGE BOARD

2 X 2" FILLER BLOCK
RECOMMENDED FOR GUSSET

2 THICK FILLER BLOCK
REQUIRED FOR GUSSET

1/2" KING SHAFT NAILS

6-8 KING SHAFT NAILS

36" EXTERIOR PLYWOOD GUSSET

36" EXT PLYWOOD GUSSETS

2-36" EXT PLYWOOD GUSSETS

1/2" KING SHAFT NAILS

1/2" KING SHAFT NAILS

SEE GUSSET DETAIL

2-36" EXT PLYWOOD GUSSETS

2-36" EXT PLYWOOD GUSSETS

1/2" KING SHAFT NAILS

1/2" KING SHAFT NAILS

PAGE 1 OF 4

"KENTUCKY SPECIALTY" GREENHOUSE

COOPERATIVE EXTENSION SERVICE
AGRICULTURE AND HOME ECONOMICS
DEPARTMENT OF AGRICULTURAL ENGINEERING
COLLEGE OF AGRICULTURE
UNIVERSITY OF KENTUCKY

AND

U.S. DEPARTMENT OF AGRICULTURE COOPERATING

DESIGNED BY
CHECKED BY
DRAWN BY R.L. W.

PLAN NUMBER

KY. 11, 771-3

SHEET 1 OF 4

DATE

REV. 8-82

SECTIONS VIEW A-A
SCALE 1/8" = 1'-0"
ALTERNATE HEATING SYSTEMS

END OF SLEEVE CLOSED WITH 3" DISCHARGE HOSE (SEE DETAIL A-A)

NOTE: DIMENSION "W" IN FEET EQUAL TO CUBIC FOOT CAPACITY OF UNIT HEATER PER 1000 FT OF HOUSE VOLUME. UNIT HEATER TO PROVIDE 30 BTU/HR. OF HEAT CURRENT PER FOOT OF LENGTH.

UNIT HEATER FAN TO RUN CONTINUOUSLY AND HAVE MINIMUM CAPACITY OF 3/4 TO 1 GPM PER 2 CUBIC FEET OF HOUSE VOLUME.

NOTE: FOR HEATER THERMOSTAT LOCATION SEE SHEET 11

"KENTUCKY SPECIALTY" GREENHOUSE
Pan located in North Wall (See Sheet #1)

Box Fan with Ex Framing

Aluminum or Rigid Plastic Film

Opening in Outside Wall with 100' Foot of Area per 1000 CFM Fan Capacity

Ground Line

Note: Minimum Air Intake Cross Section to 1 sq ft per 1000 CFM of Fan Capacity.

Cover with 6 Mil Plastic Film

Air Intake

Exhaust Fan with Anti-Back Draft Shutters. Fan to Provide 4000 CFM of Fan Capacity at 3 SP for Each Foot of House Length

Air Intake Back End

For Fan Thermostat Location; See Sheet #1

Kentucky Specialty Greenhouse

Cooperative Extension Service
Agriculture and Home Economics
Department of Agricultural Engineering
College of Agriculture
University of Kentucky

Designed by: W.E. T.

Plan Number: KY. II, 771-3

Date: 11-18-77

Revisions: 2-88