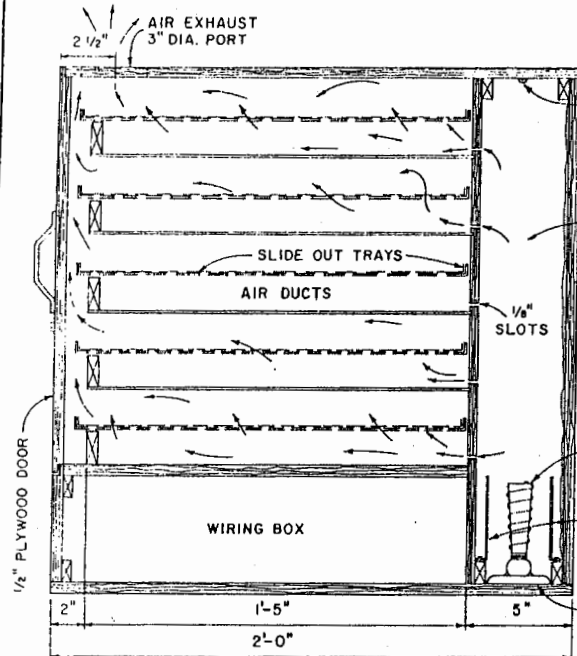




LEFT SIDE SECTION VIEW

SUGGESTION:
INSTALL ALL WIRING BEFORE
INSTALLING AIR DUCTS.

REMOTE SENSING
BULB FOR THERMOSTAT

CAUTION:
HEAT SHIELDS MUST BE INSTALLED
TO MINIMIZE FIRE HAZARD.

PLENUM CHAMBER

REMOVABLE BACK PANEL
(LINE WITH ALUM. FOIL)

1 KW-110 V. CONE
TYPE RESIST.
HEATING ELEMENTS.

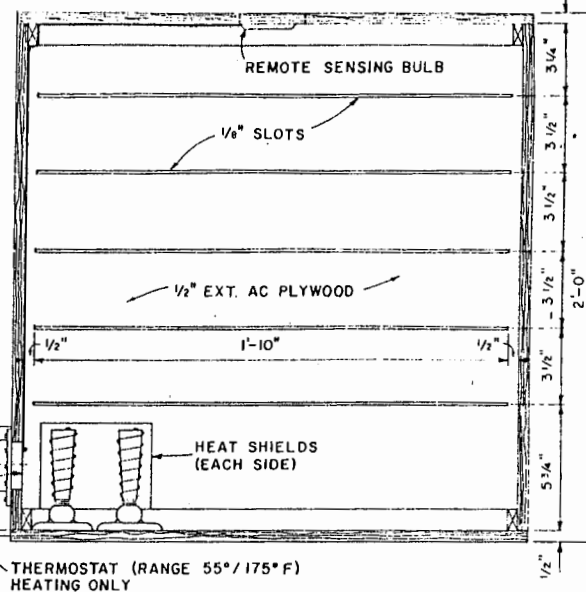
TWO 5 1/4 x 16 GA.
SHEET METAL SHIELDS

110 V. SURFACE MOUNT
PORCELAIN SOCKET

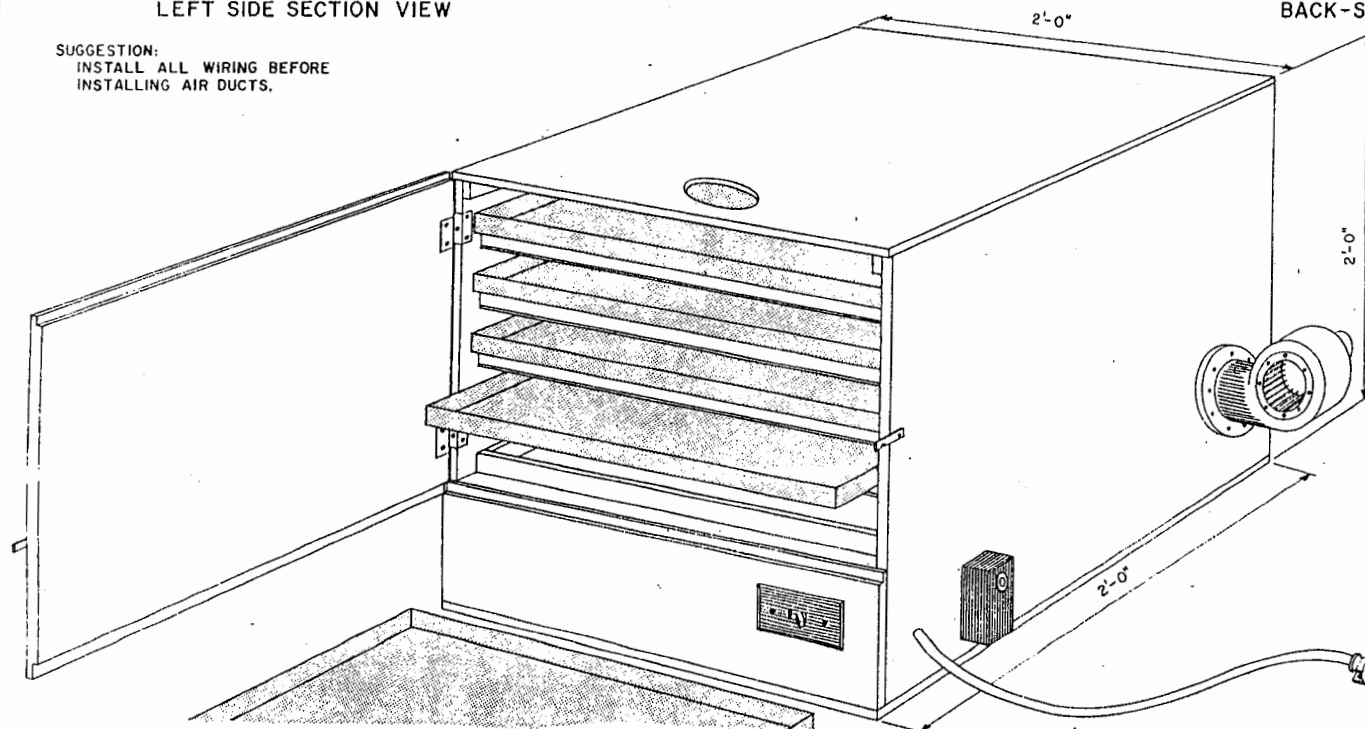
1/4s HP DAYTON MOD.*
2 C781, 115 V.-2870 RPM-R
80 cfm. AT 1/2" s.p.-FAN &
MOTOR (CONSTANT RUN)

2 1/8" DIA. INTAKE PORT

0 1" 2" 3" 4" 5" 6"
SCALE: 3"=1'-0"



BACK-SECTION VIEW "PLENUM"

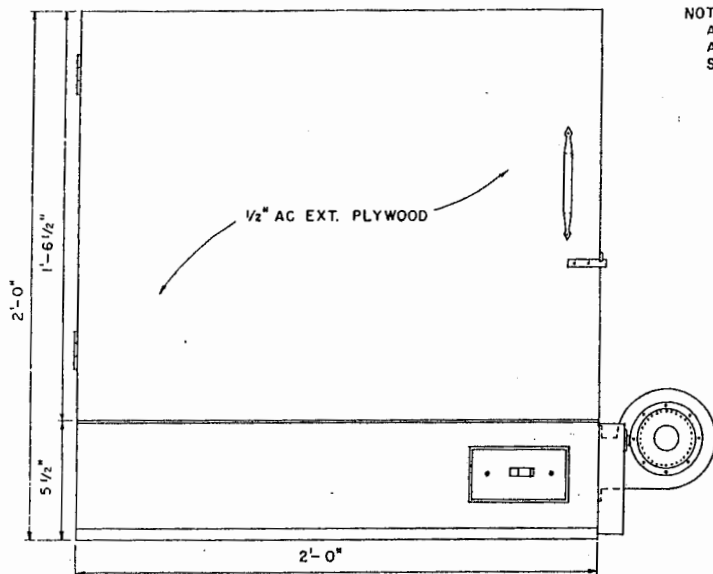


DEVELOPED BY THE FRUIT SUBSTATION,
CLARKSVILLE, AND THE AGRICULTURAL
ENGINEERING DEPARTMENT, UNIVERSITY
OF ARKANSAS, PLAN NO. 731001



FRUIT DRIER

ARK. '74 6202 SHEET 1 OF 4



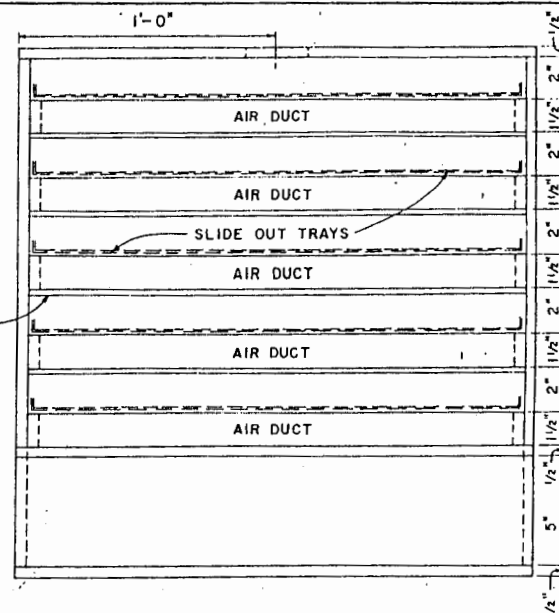
FRONT VIEW

NOTE:
ALL JOINTS IN AIR DUCTS
AND PLENUM CHAMBER
SHOULD BE CAULKED.

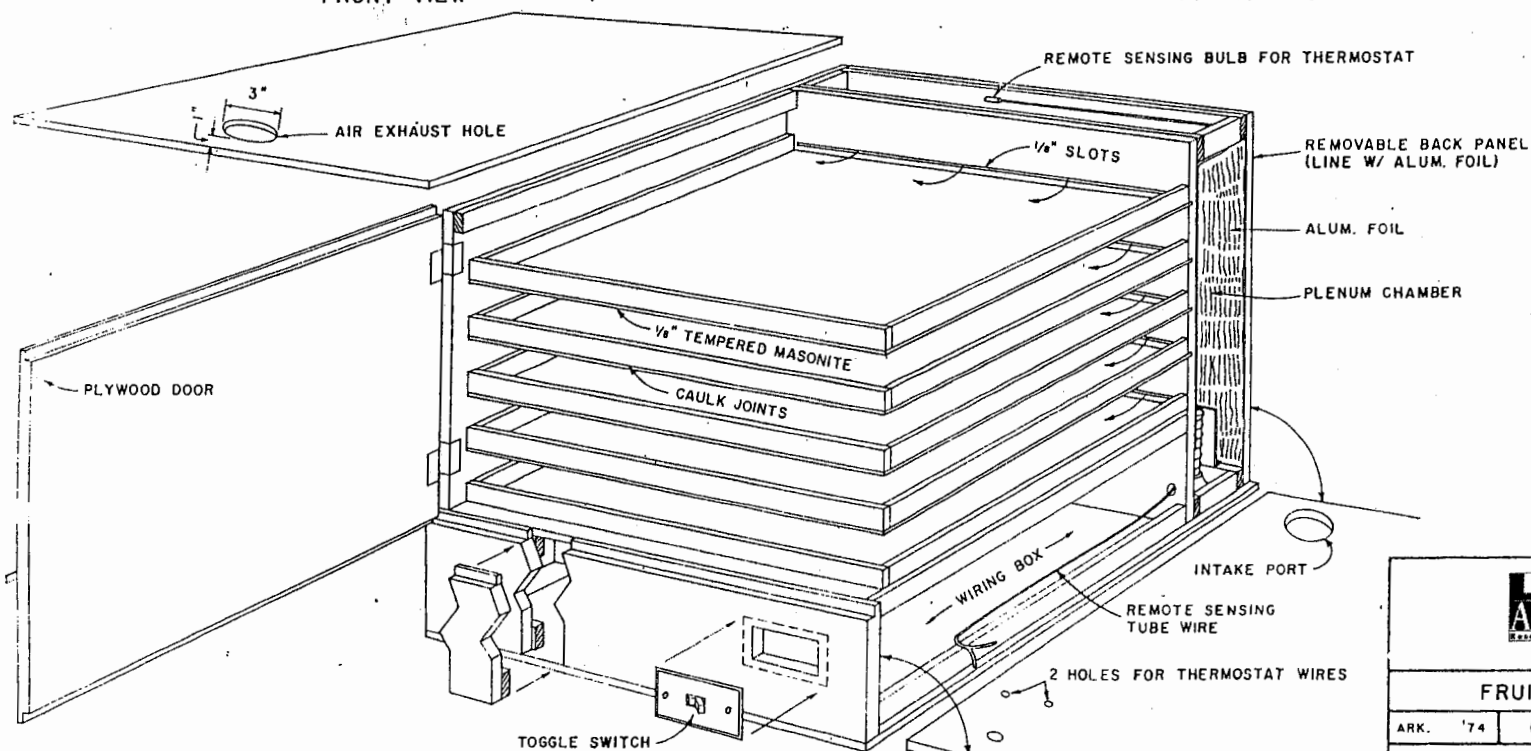
1/8" TEMPERED
MASONITE
(CAULK JOINTS)

6" 5" 4" 3" 2" 1" 0

SCALE: 3"=1'-0"



FRONT—"DOOR REMOVED"



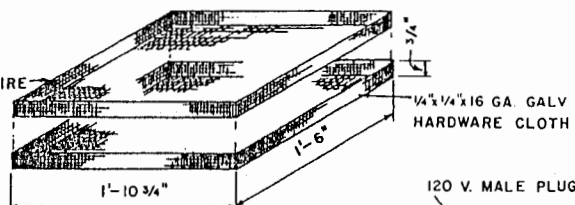
FRUIT DRIER

ARK. '74 6202 SHEET 2 OF 4

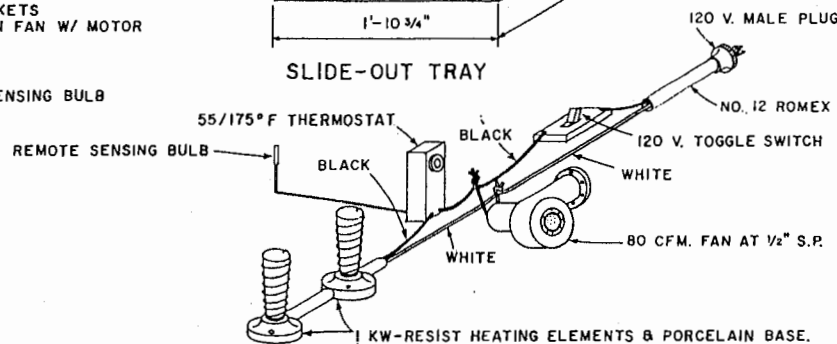
BILL OF MATERIALS

- 1-4x8x1/2" AC EXT. PLYWOOD
- 1-4x4x1/8" TEMPERED MASONITE
- 1-4x5x16 GA. -1/4" GALV. HARDWARE CLOTH
- 6-1x2x8" NO. 1 FIR
- 1/2"-4d BOX NAILS
- 12-NO. 10 WOOD SCREWS
- 1-SET 1/2" HINGES & DOOR HANDLE
- 2-1 KW-110 V. CONE TYPE HEATING ELEMENTS
- 2-110 V. SURFACE MT. PORCEL. LIGHT SOCKETS
- 1-110 V. 2870 RPM "DAYTON" MOD. #2C781 FAN W/ MOTOR
- 1-110 V. SINGLE POLE SWITCH & COVER
- 1-ELECT. SWITCH BOX
- 1-ELECT. JUNCTION BOX
- 1-55/175°F THERMOSTAT W/ REMOTE SENSING BULB
- 2-HEAT SHIELDS 16 GA. 4"x5"
- 1-4'x5' ALUM. SCREEN WIRE

ALUM. SCREEN WIRE
(SEE NOTE)

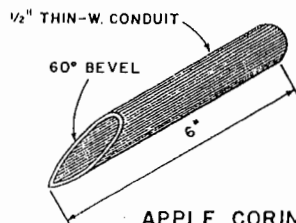


SLIDE-OUT TRAY



NOTE:
CIRCUIT: 120 V.-20 A. MIN.

WIRING DIAGRAM



APPLE CORING TOOL
NO SCALE

FRUIT DRYING PROCEDURE

APPLES:

- A. PEEL, CORE, & SLICE IN 1/4" RINGS
- B. DIP FRUIT IN BLEACHING SOLUTION* FOR 2 MINUTES.
- C. PLACE PREPARED FRUIT IN LARGE PLASTIC BAG, SEAL, & REFRIG. OVER-NIGHT FOR BEST RESULTS.
- D. PLACE FRUIT EVENLY IN TRAYS, & PLACE TRAYS IN DRIER.
- E. SET THERMOSTAT AT 165°
- F. DRY TO 15-20% MOISTURE W.B.
- G. APPX. TIME REQ. | TEMP. OUTSIDE AIR

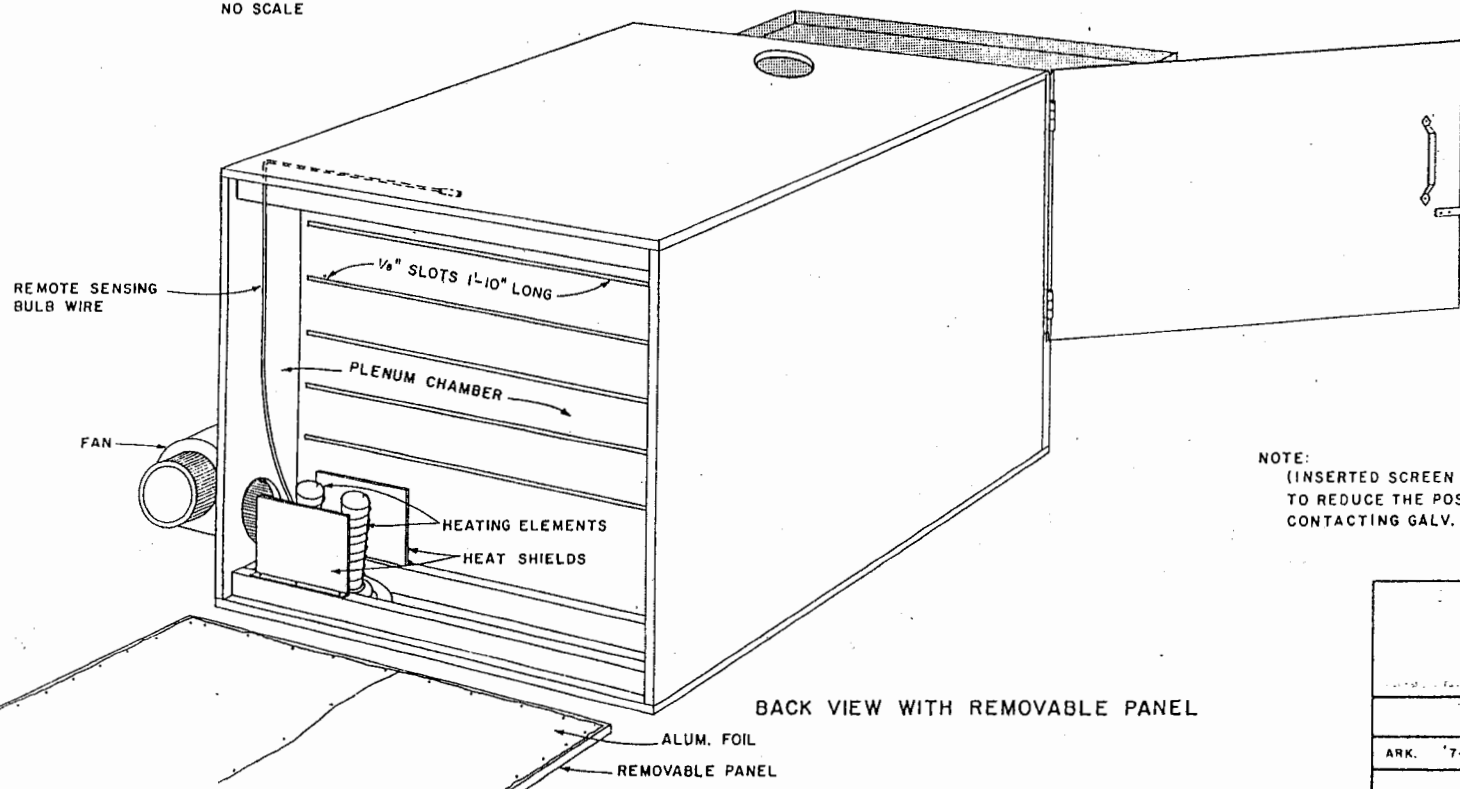
(HRS.)	(°F)
10-11	60
9-10	70
7-8	80

PEACHES:

- A. PEEL, PIT, & SLICE INTO 1/4 SECTIONS
- B.-D. AS ABOVE
- E. SET THERMOSTAT AT 145°
- F. DRY TO 15-20% MOISTURE W.B.
- G. APPX. TIME REQ. | TEMP. OUTSIDE AIR

(HRS.)	(°F)
12-13	60
11-12	70
11-12	80

*FOR BLEACHING AGENT USE:
3 LEVEL TEASPOONS OF 60% SODIUM BISULFITE PER QT. OF WATER.



BACK VIEW WITH REMOVABLE PANEL

NOTE:

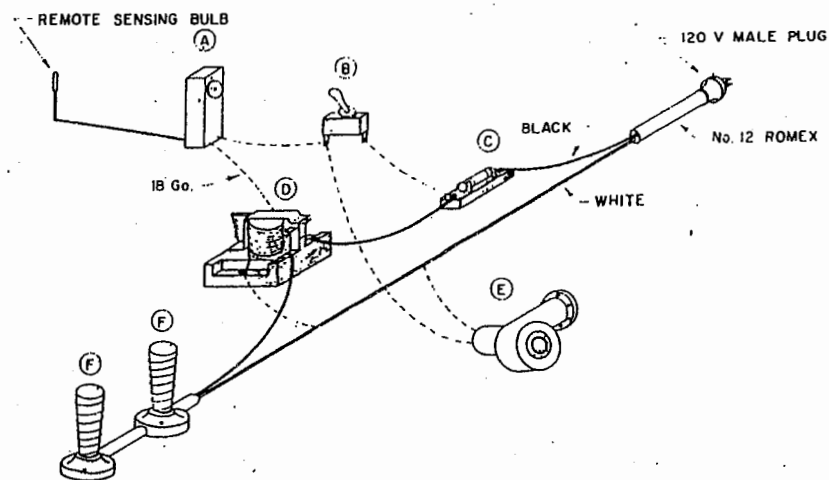
(INSERTED SCREEN WIRE LINING IS SUGGESTED TO REDUCE THE POSSIBILITY OF FRUIT CONTACTING GALV. HARDWARE CLOTH.)



FRUIT DRIER

ARK. '74 6202 SHEET 3 OF 4

- (A) - HONEYWELL MOD. T675A THERMOSTAT, 55 / 175 °F
- (B) - 120 V TOGGLE SWITCH
- (C) - IN-LINE FUSE HOLDER W/ 20 A FUSE
- (D) - DAYTON No. 5X850 RELAY
- (E) - DAYTON MOD. 2C781 BLOWER
- (F) - 1 KW - 110 V CONE TYPE HEATING ELEMENT W/ PORCELAIN BASE

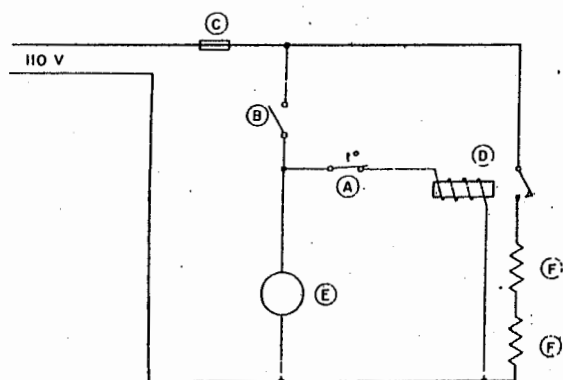


ALTERNATE WIRING DIAGRAM

NOTE:

WIRING DIAGRAM SHOWN ON SHEET 3 REQUIRES A LINE VOLTAGE THERMOSTAT RATED AT 20 AMP. RESISTIVE. IF THIS TYPE OF THERMOSTAT IS NOT AVAILABLE, THE WIRING DIAGRAM SHOWN ON THIS SHEET MAY BE USED.

THE OPERATION OF THIS DRYER REQUIRES A 110 V. - 20 AMP. CIRCUIT. TO PREVENT OVERLOADING OF CIRCUIT, DO NOT OPERATE DRYER ON A CIRCUIT WITH OTHER APPLIANCES.



SCHEMATIC

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FRUIT DRIER

OKLA. '75 6202 SHEET 4 OF 4

Disclaimer

This site makes available conceptual plans that can be helpful in developing building layouts and selecting equipment for various agricultural applications. These plans do not necessarily represent the most current technology or construction codes. They are not construction plans and do not replace the need for competent design assistance in developing safe, legal and well-functioning agricultural building system. The LSU Agriculture Center, the Mid-West Plan Service, the United States Department of Agriculture and none of the cooperating land-grant universities warranty these plans.