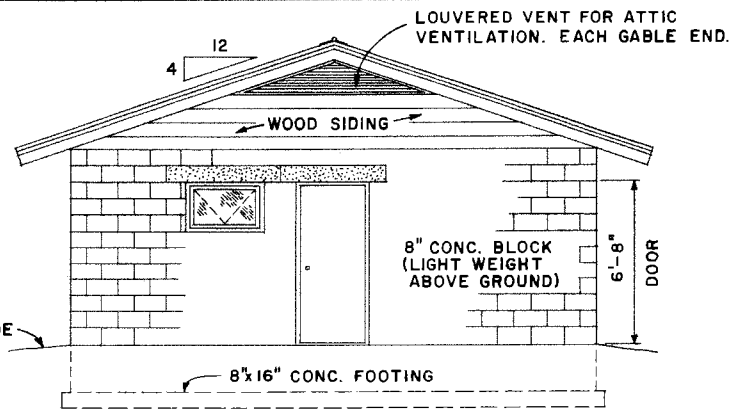
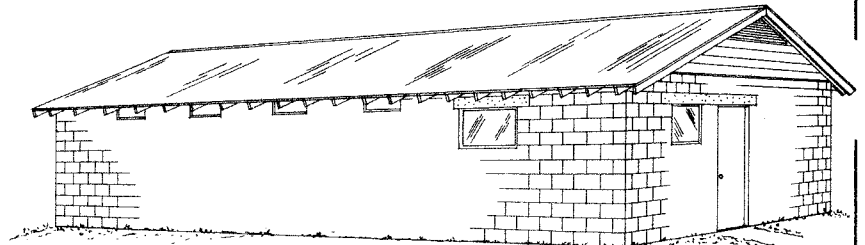


SIDE ELEVATION

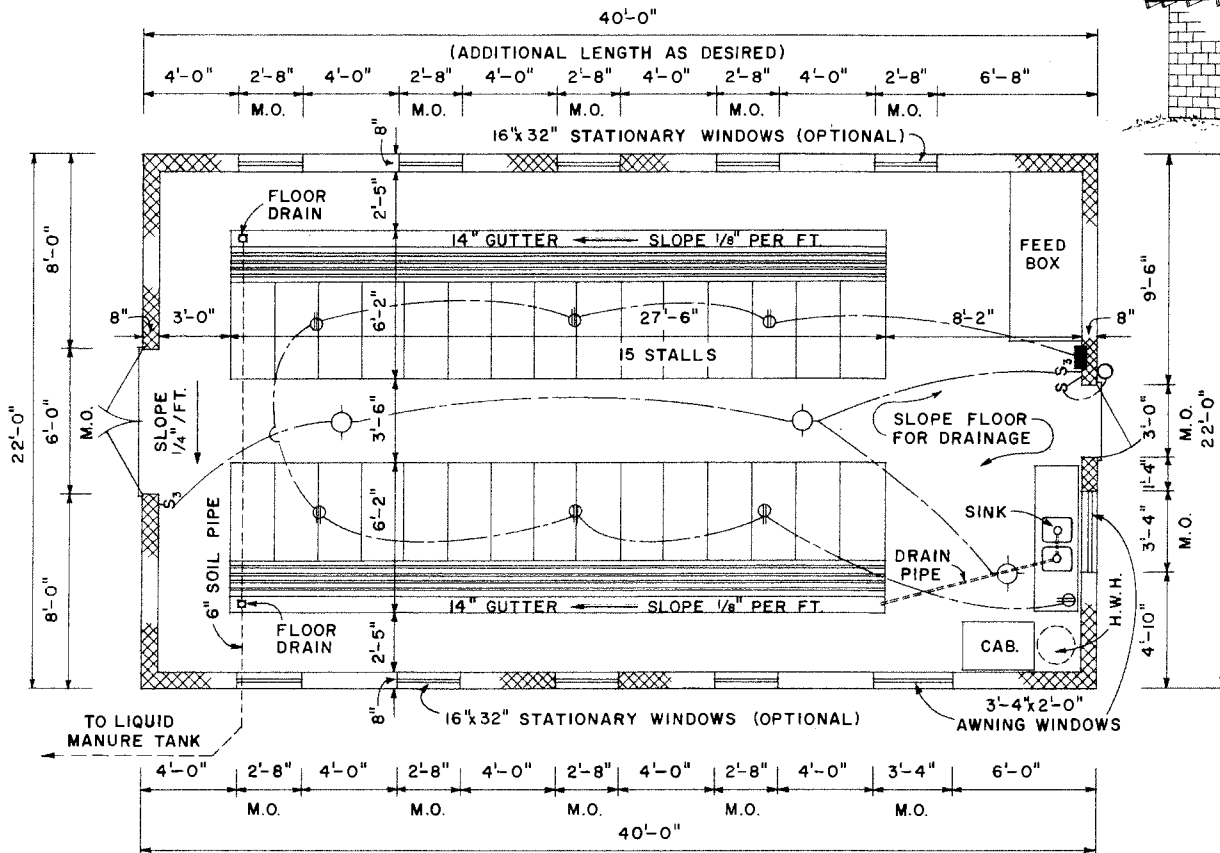


FRONT ELEVATION

- ELECTRICAL SYMBOLS**
- - MAIN POWER ENTRANCE PANEL
 - ⊞ - SINGLE-POLE TOGGLE SWITCH
 - ⊞ - 3-WAY TOGGLE SWITCH
 - ⊞ - TWIN-CONVENIENCE OUTLET WITH HINGED PROTECTIVE COVER
 - ⊞ - CEILING MOUNTED FIXTURE, 100 TO 150 WATT LAMP
 - ⊞ - WALL BRACKET MOUNTED FLOODLIGHT (OPTIONAL)



PERSPECTIVE



FLOOR PLAN

NOTES:
 CONSULT LOCAL HEALTH AND BUILDING CODE AUTHORITIES BEFORE STARTING CONSTRUCTION. THESE PLANS ARE FOR USE AS A GUIDE. IF A CONSTRUCTION CONTRACT IS TO BE MADE, WRITTEN SPECIFICATIONS ARE NEEDED. FOR RECOMMENDED VENTILATION AND HEATING SYSTEMS, SEE DATA ON SHEET 2. DETERMINE VENTILATION SYSTEM AND EQUIPMENT TO BE INSTALLED BEFORE STARTING CONSTRUCTION.

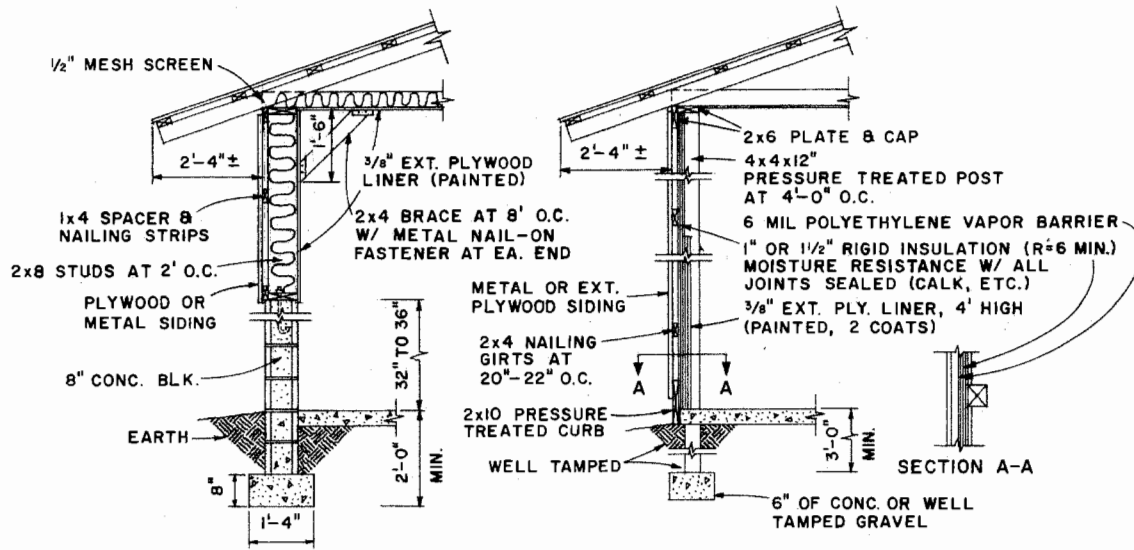
SCALE: 1/4"=1'-0" UNLESS OTHERWISE SHOWN
 12' 6" 0' 1' 2' 3' 4' 5'



CALF BARN
 ENVIRONMENTALLY CONTROLLED

KY. '74 6186 SHEET 1 OF 3

BASED ON: UNIV. OF KY. PLAN II.772-36



ALTERNATE WALL CONSTRUCTION DETAILS

SCALE: 1/2" = 1'-0"
 12" 6" 0 1' 2'

FAN AND HEATER CAPACITY REQUIREMENTS

Ventilation and heating requirements vary with the size of the building and the number of calves to be housed. Fan and heater capacities for three building sizes are shown below. Other sizes can be determined from data below:

Building Size	No. Calves	Winter Fans, CFM		Summer Fans	Heater
		Min. Cont.	Normal	Total CFM	BTU/Hr. Output
22' x 40'	30	300	1000	6,000+	40,000
22' x 60'	50+	500	1500	10,500+	60,000
36' x 60'	100+	1000	3000	19,000+	120,000

Sizes based on the following design data:
 Winter ventilation: 10 CFM per calf minimum continuous and 30 CFM normal

Summer ventilation: 1 to 1 1/4 air change per minute total for the building

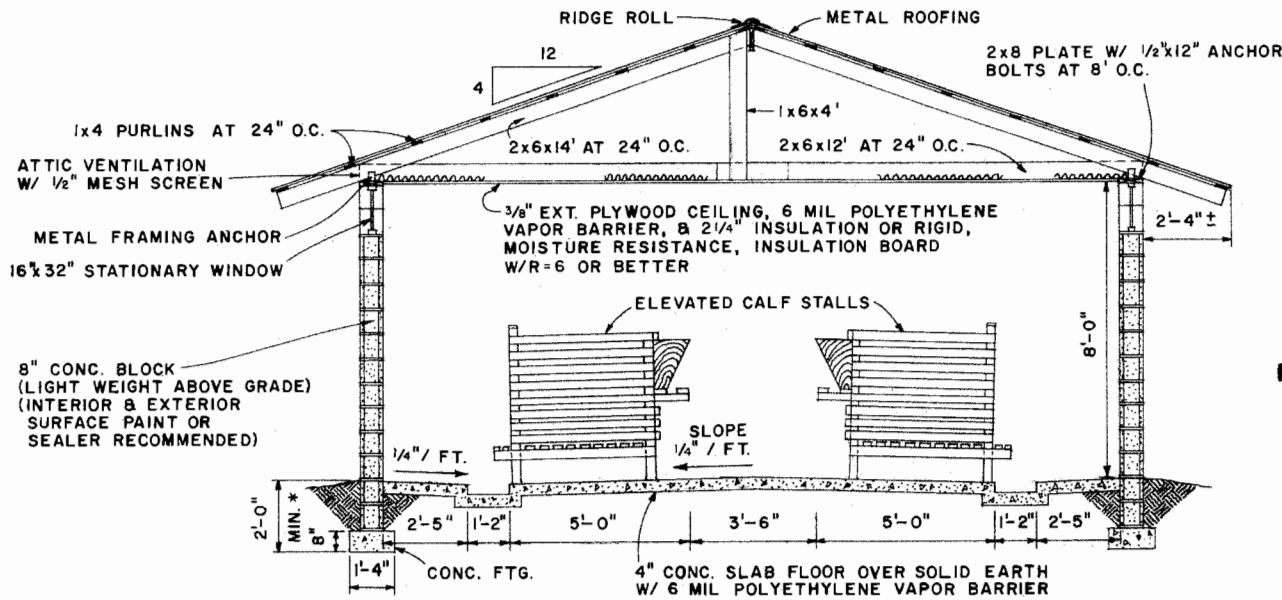
Supplemental heat: 50° temperature differential

THERMOSTAT SETTINGS

The thermostats should be located on a ventilation control board at eye level height near the center of the building.

Suggested Settings: Heat: Replacement Heifers: 45°-55°F
 Vealers: 60-65°F

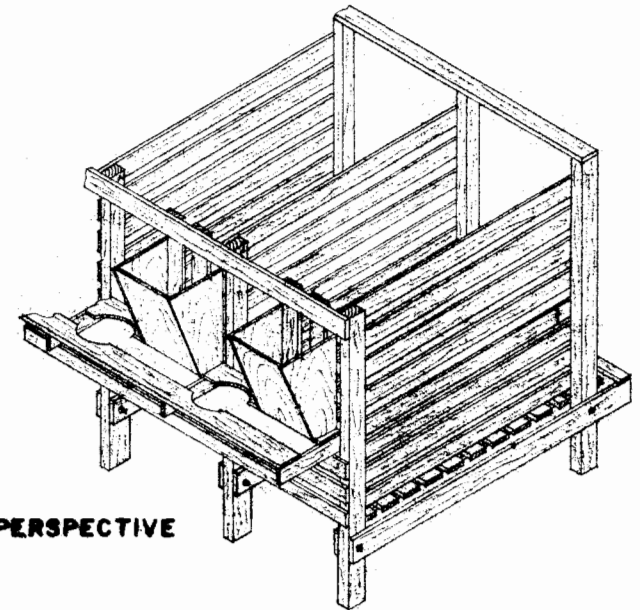
Summer Vent.: 70°-75°F



CROSS SECTION

SCALE: 3/8" = 1'-0"
 12" 6" 0 1' 2' 3'

* FOOTINGS TO EXTEND TO SOLID GROUND BELOW FROST LINE

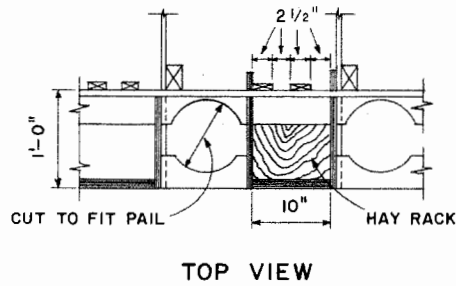


PERSPECTIVE



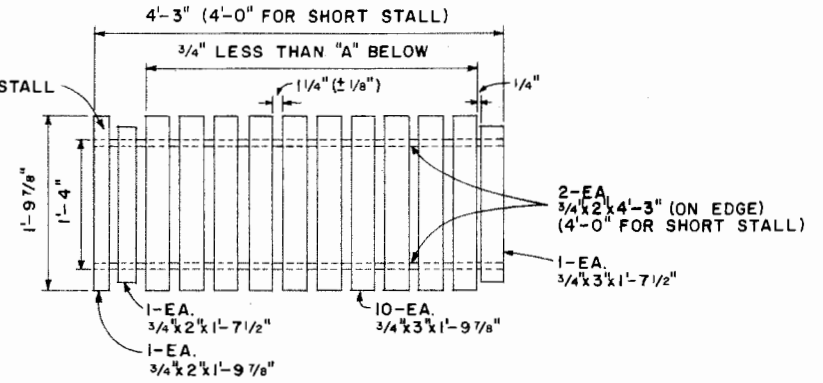
CALF BARN ENVIRONMENTALLY CONTROLLED

KY. '74 6186 SHEET 2 OF 3

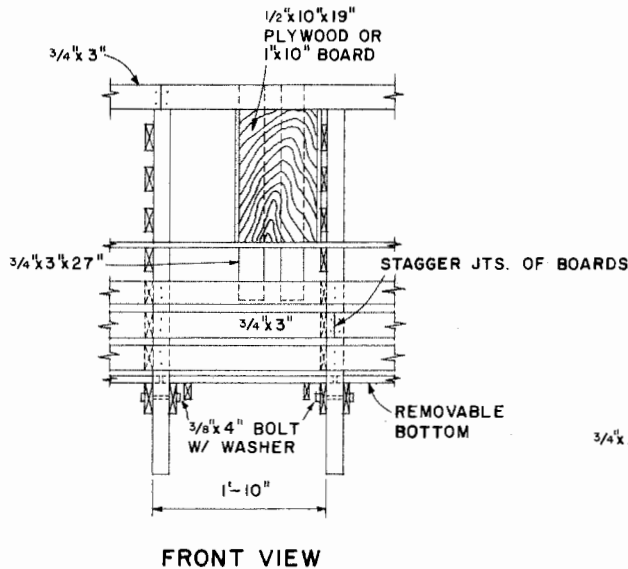


NOTE:
HAY RACK MAY BE OMITTED FOR VEAL CALVES AND 2 PAIL POSITIONS USED. THEN, USE ONE VERTICAL SLAT AT FRONT OPENING.

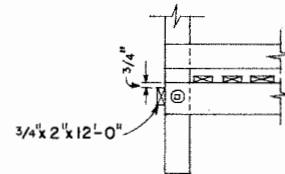
NOTE:
ALTERNATE FLOOR CAN BE SPECIALLY CONSTRUCTED:
METAL ROD FLOOR (3/8" RODS, 1" O.C.) WELDED TO 1/4"x1" METAL STRAP ON EDGE OR 1" SQ. METAL TUBING.



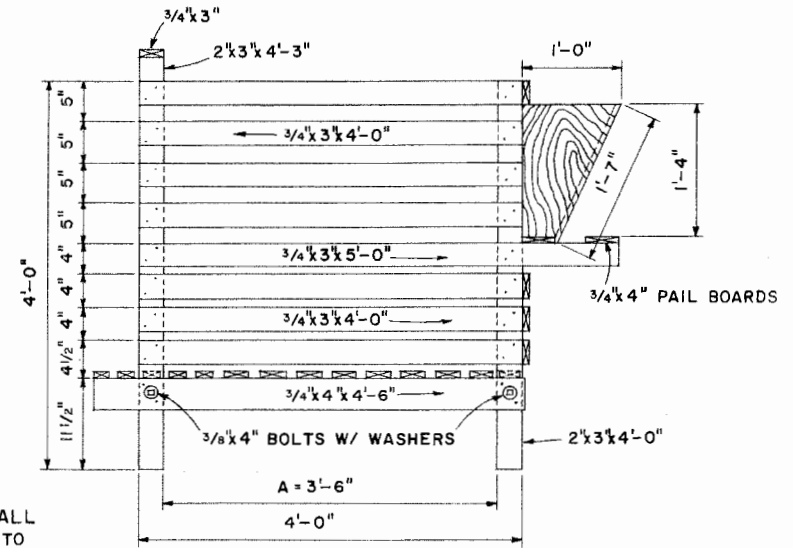
TOP VIEW-REMOVABLE BOTTOM



FRONT VIEW



ALTERNATE SHORT STALL
OPTIONAL FOR CALVES TO 200# OR 8 WEEKS OLD.



SIDE VIEW

LIST OF MATERIALS
(All Sound Quality Planed Hardwood Lumber Having Good Resistance to Decay.)

SIZE*	LENGTH	QUANTITY	SIZE*	LENGTH	QUANTITY	SIZE*	LENGTH	QUANTITY
3/4" x 2"	19 1/2"	1 per Stall	2" x 3"	4'-3"	1 per Stall	NAILS: 1 1/2" (Common or Hardened)		
"	21 7/8"	1 per Stall	"	4'-0"	1 per Stall	" 1/10 lb. per Stall		
"	4' 3"	2 per Stall	3/4" x 2"	12'	1 per 6 Stalls	2" (Common or Hardened)		
3/4" x 3"	19 1/2"	1 per Stall	3/4" x 3"	12'	5 per 6 Stalls	1/3 lb. per Stall		
"	21 7/8"	10 per Stall	3/4" x 4"	12'	2 per 6 Stalls	BOLTS: 3/8" x 4" Mach. 2 per Stall		
"	27"	2 per Stall	1/2" ply. or					
"	4'-0"	7 per Stall	3/4" Bd.	10" x 19"	1 per Stall	WASHERS: 3/8" Flat	4 per Stall	
"	5'-0"	1 per Stall	1/2" ply.	12" x 16"				
3/4" x 4"	4'-6"***	2 per Stall		(sloped)	2 per Stall	*All wood sizes "Actual"		
2" x 3"	11 1/2"	1 per Stall				***4'-6" for veal calves to 300 #.		
						Only 4'-0" for calves to 200 #.		

SCALE: 1"=1'-0" UNLESS OTHERWISE NOTED
12" 9" 6" 3" 0" 1'



CALF BARN
ENVIRONMENTALLY CONTROLLED
KY. '74 6186 SHEET 3 OF 3

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.