

# MWPS-72056

## 36' Pole Utility Building

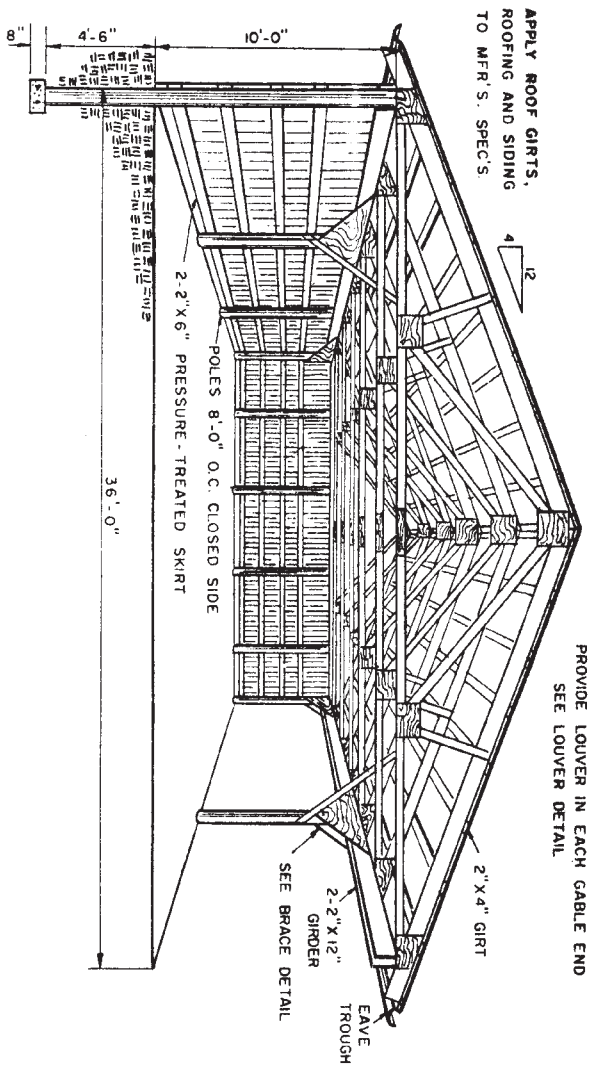
### **CAUTION!**

Additional professional services will be required to tailor this plan to your situation, including but not limited to: assurance of compliance with codes and regulations; review of specifications for materials and equipment; supervision of site selection, bid letting and construction; and provision for utilities, waste management, roads or other access. **Furthermore, any deviation from the given specifications may result in structural failure, property damage, and personal injury including loss of life.**

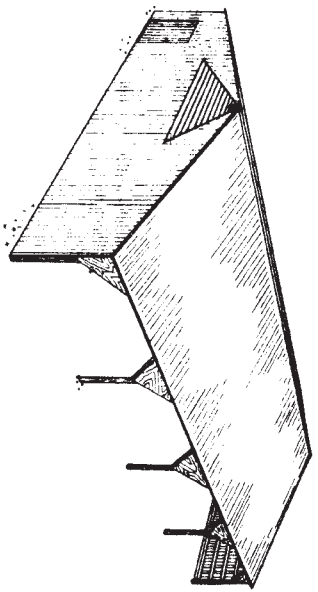
### **WARRANTY DISCLAIMER**

This plan provides conceptual information only. **Neither midwest plan service nor any of the cooperating land-grant universities, or their respective agents or employees, have made, and do not hereby make, any representation, warranty or covenant with respect to the specifications in this plan.** Additional professional services will be required to tailor this plan to your situation, including but not limited to: assurance of compliance with codes and regulations; review of specifications for materials and equipment; supervision of site selection, bid letting and construction; and provision for utilities, waste management, roads or other access.

<b>MIDWEST PLAN SERVICE</b>
Cooperative Extension Work in Agriculture and Home Economics and Agricultural Experiment Stations of North Central Region - USDA Cooperating
36' Pole Utility Building
Title Page
MIDWEST PLAN NO. 72056



PROVIDE LOUVER IN EACH GABLE END  
SEE LOUVER DETAIL

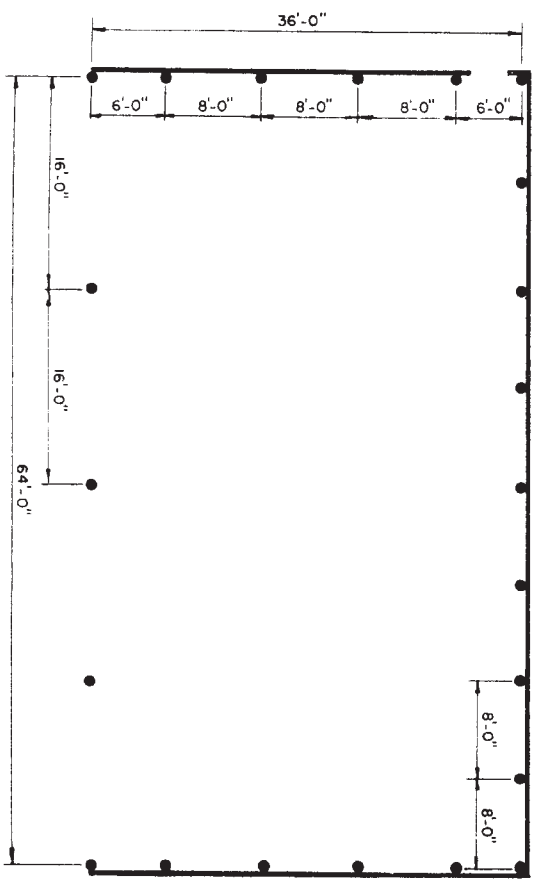


WITH ONE SIDE OPEN, THE BUILDING CAN BE USED FOR:  
Beef housing and/or feeding.  
Dairy resting barn.  
Machinery housing.

WITH ALL SIDES CLOSED, THE BUILDING CAN BE USED FOR:  
Insulated:  
Livestock housing.  
Poultry housing.  
Uninsulated:  
Rural warehousing.  
Machinery housing.

All lumber in contact with manure or the soil should be pressure-treated with an oil-base preservative.

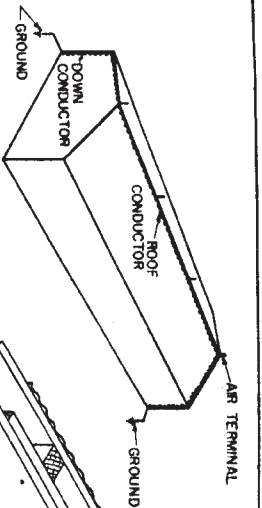
POLE SIZES: 5" top x 16', 16'-0" O.C.  
In front and back walls,  
4" top x 12', intermediate  
poles in ends and back wall



Sheet 4: 36' Span Trusses

MIDWEST PLAN SERVICE
Cooperative Extension Work in Agriculture, Home Economics, and Agricultural Experiment Stations of North Central Region - USDA Cooperating
36' POLE UTILITY BUILDING
Sheet 1 of 4 Sheets
MIDWEST PLAN NO. 72056

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**LIGHTNING PROTECTION FOR CABLE ROOFS**

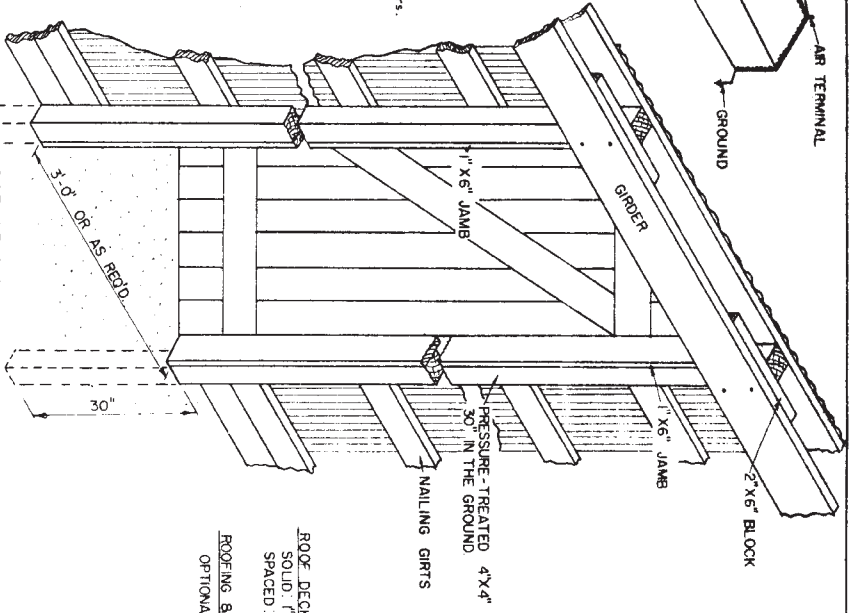
**Air Terminals**  
At least 24" long.  
Up to 25' apart.  
1/2" copper or 5/8" aluminum.  
5/8" copper tubing, wall thickness over 0.032"

**Conductors** 17 AWG wire, 181M/1000'.  
Aluminum: 14 AWG wire, 95M/1000'.  
Two down conductors, minimum, on opposite corners.  
For bldgs. over 110' long, use one down conductor per 50' add'l length.

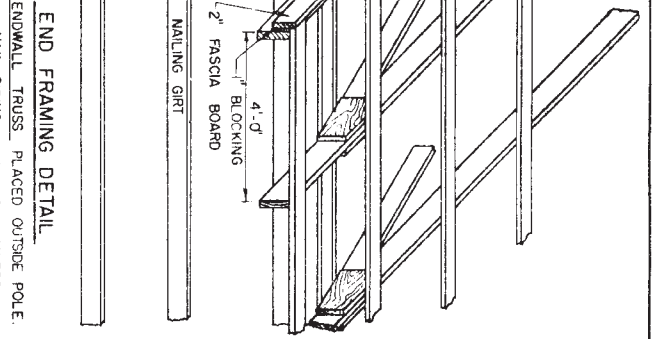
**Grounds**  
One ground per down conductor.  
Rods buried at least 10'.  
If water pipe enters bldg, bond at least one down conductor to it.

**Metal Roofs**  
Ground metal roofs without air terminals by attaching 18" of conductors to roofing with 2-3/8" J or U bolts. Ground down conductors as with air terminals.

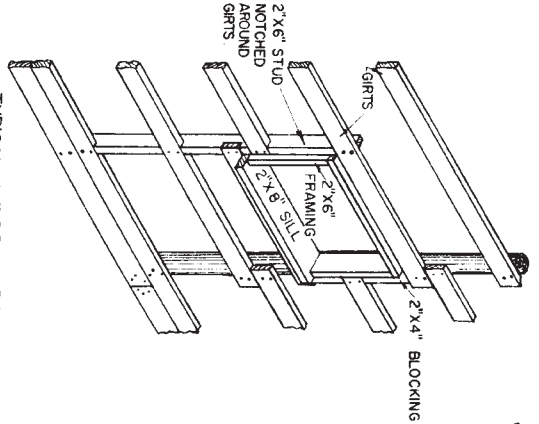
**Master Label**  
For maximum lightning protection obtain a Master Label System as approved by the Underwriters' Laboratories, Inc.



**ROOF DECK**  
SOLID T & G LUMBER OR EQUIVALENT  
SPACED: 2' X 4" GIRTS, LAD FLAT, FOLLOW ROOFING MFR'S SPECS.  
OPTIONAL: APPLY TO MFR'S SPECS.

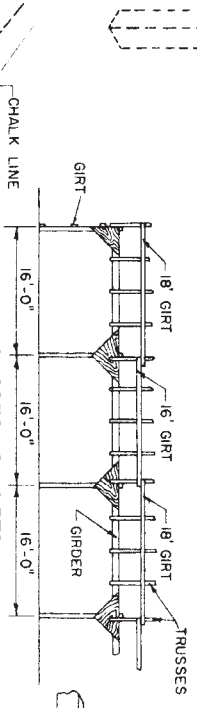


**END FRAMING DETAIL**  
ENDWALL TRUSS PLACED OUTSIDE POLE.  
NAIL SIDING TO TRUSS MEMBERS

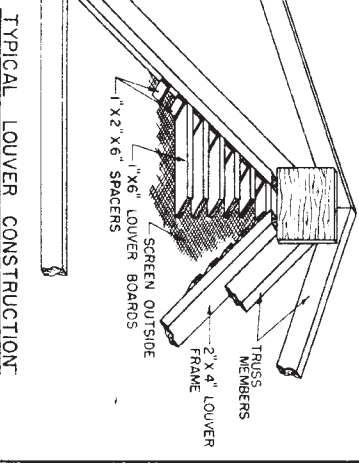
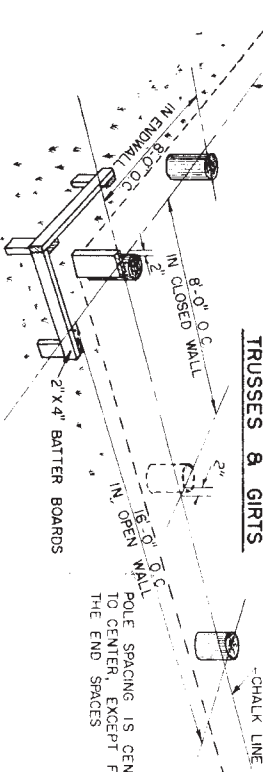


**TYPICAL WINDOW FRAMING**  
SELECT STOPS & HARDWARE TO SUIT TYPE OF SASH USED

**DOOR FRAMING DETAIL**  
USE SIMILAR FRAMING FOR LARGE DOOR IN ENDWALL



**TRUSSES & GIRTS**



**TYPICAL LOUVER CONSTRUCTION**

**MIDWEST PLAN SERVICE**  
COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS OF NORTH CENTRAL REGION, USDA COOPERATING

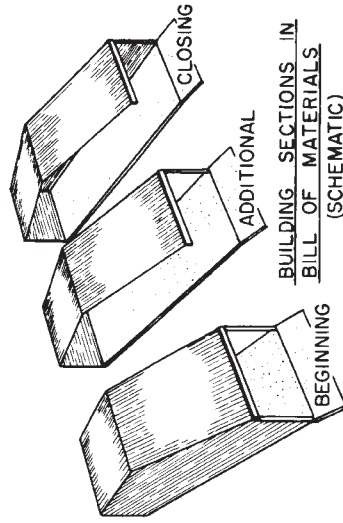
**24' POLE**  
**UTILITY BUILDING**

SHEET 3 - 24' SPAN TRUSSES

6011 SHEET 2 OF 3 SHEETS  
MIDWEST PLAN NO. 72054

BUILDING SECTION (16' LONG)

ITEM	DESCRIPTION	BEGINNING NO. FBM	ADDITIONAL NO. FBM	CLOSING NO. FBM
Concrete Poles	Cu. feet	4	2	2
	5' Top x 16'	4	2	2
	4' Top x 16'	3	1	3
Girders	2"x8"x16'0"	4	85 1/3	4
Bracing-	2"x4"x8' c-c, Ext. Plywood	1 1/2	1	85 1/3
	2"x4"x14'0"	3	28	1
	2"x6"x6'0"	2	12	1
	2"x6"x7'0"	2	14	6
Trusses	See Page 3	5	3	4
Girts	2"x4"x16'0"	7	74 2/3	7
	2"x4"x18'0"	7	84	7
	2"x6"x16'0"	10	160	10
Skirt	2"x6"x16'0" Pressure-treated	5	80	5
Siding	Sq. feet	445	160	445
Roofing	Sq. feet *	448	448	448
Louwer	Ln. feet Eaves trough	32	32	32
	2"x4"x6'0"	2	2	8
	1"x6"x10'0"	5	25	5
	1"x2"x12'0"	1	2	1
Man door	Sq. ft. screen	15	2	15
	4"x4"x12'6"	2	34	2
	2"x6"x 2'0"	1	2	1
	1"x6"x10'0"	11	55	15



BUILDING SECTIONS IN  
BILL OF MATERIALS  
(SCHEMATIC)