

MWPS-72058

50' Pole Utility Building

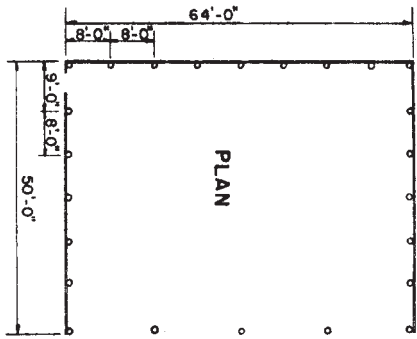
CAUTION!

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.**

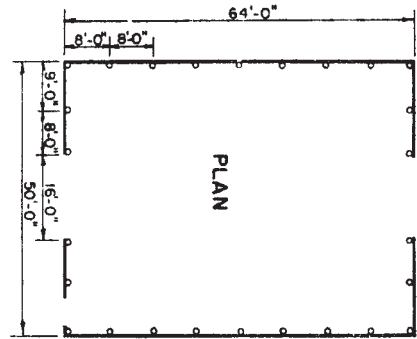
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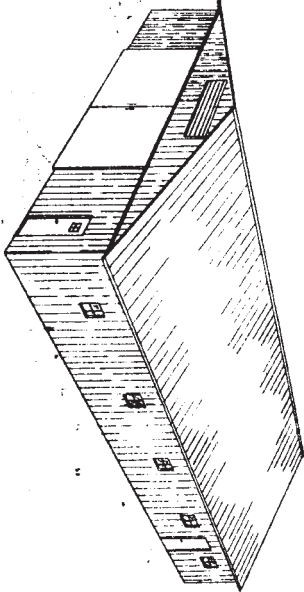
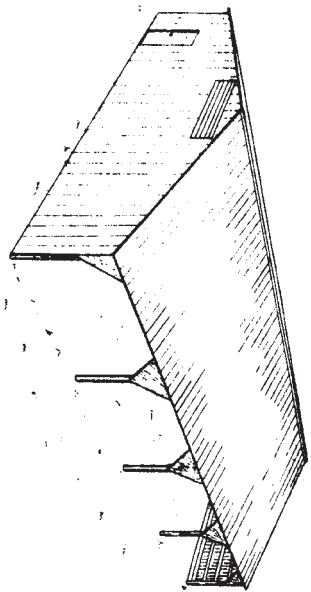
MIDWEST PLAN SERVICE
Cooperative Extension Work in Agriculture and Home Economics and Agricultural Experiment Stations of North Central Region - USDA Cooperating
50' Pole Utility Building
Title Page
MIDWEST PLAN NO. 72058



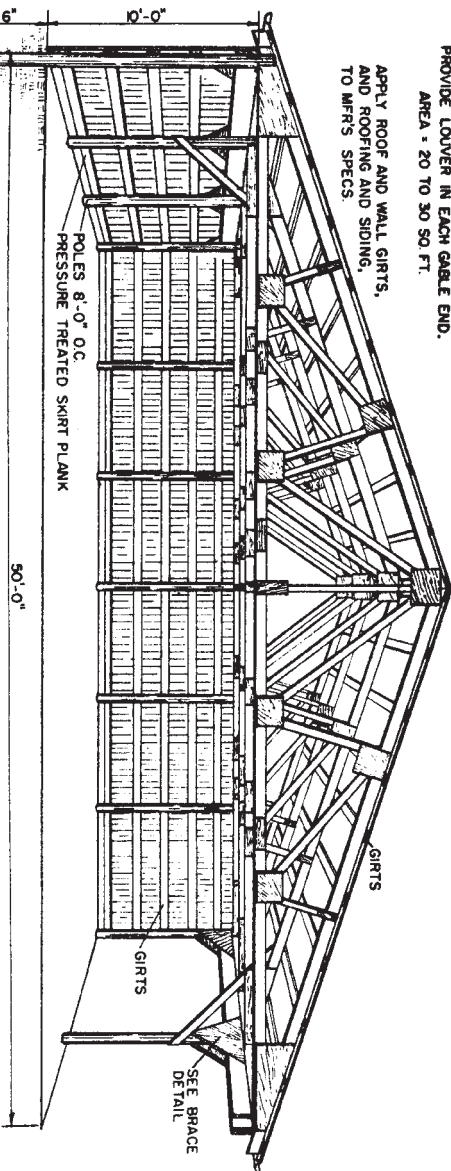
WITH ONE SIDE OPEN, THE BUILDING CAN BE USED FOR:
Beef housing and/or feeding.
Dairy resting barn.
Machinery housing.



WITH ALL SIDES CLOSED, AND SUITABLE DOORS, THE BUILDING CAN BE USED FOR:
Drive-through machinery housing.
Rural warehousing.



PROVIDE LOUVER IN EACH GABLE END.
AREA = 20 TO 30 SQ. FT.
APPLY ROOF AND WALL GIRTS,
AND ROOFING AND SIDING,
TO MFR'S SPECS.



VENTILATION:
Provide louvers in each end for minimum ventilation. For animal housing in the open shed leave backwall eave open. Drop down doors improve summer ventilation.
Walls can be 12' high for machine shed. Provide pressure-treated skirt boards inside poles for cattle housing (usually 3' to 4' high).

SHEET 4: 50' SPAN TRUSSES

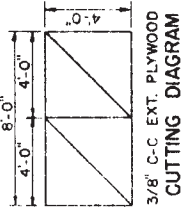
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50' POLE
UTILITY BUILDING

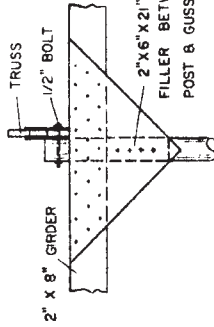
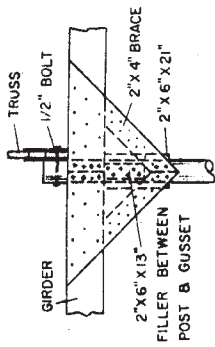
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Sheet 1 of 4 Sheets

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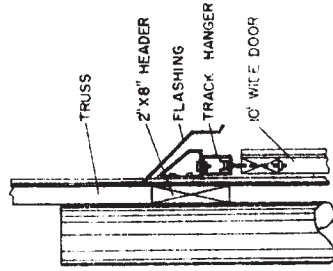
- 1/2" BOLTS
- 8d NAILS
- 40d NAILS ARE DEFORMED HARDENED STEEL



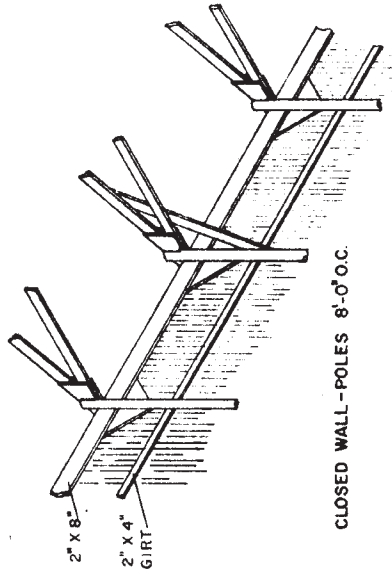
NAILING DIAGRAM
GIRDER GUSSETS - 16" O.C.



NAILING DIAGRAM
GIRDER GUSSETS - 8" O.C.

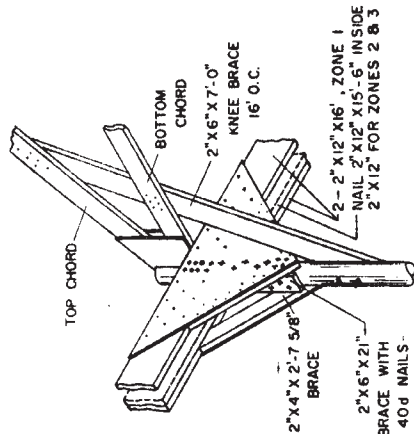


DOOR HANGER DETAIL
(ENDWALL)



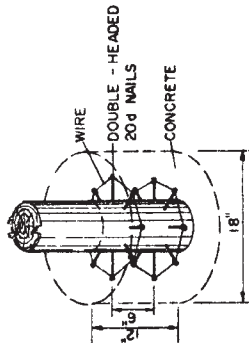
CLOSED WALL - POLES 8'-0" O.C.

PRESSURE TREATED POLES AND POSTS
 Squared Posts, 16' O.C. 6" x 6"
 10' Wall 6" x 6"
 12' Wall 6" x 6"
 8' O.C. 4" x 6"
 6' O.C. 4" x 6"
 *Note: Wider dimension is parallel to trusses.
 Class 5
 (5 1/2" Min. Top) (6" Min. Top)
 Douglas Fir, western hemlock, southern pine, or equivalent.



OPEN WALL
GIRDER-POLE CONNECTION

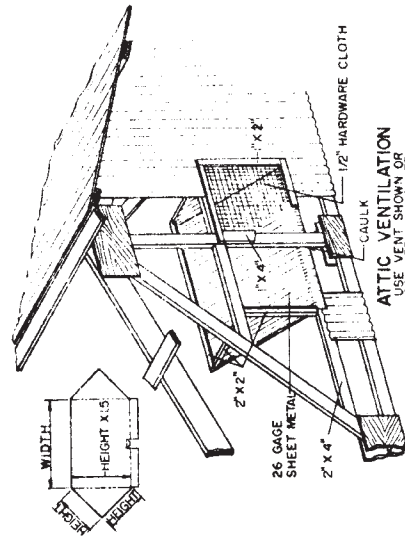
NOTE: DO NOT SUBSTITUTE OTHER
FRAMING METHODS FOR THE
PLYWOOD GUSSETS SHOWN



CONCRETE COLLAR DETAIL

LIST OF MAJOR MATERIALS
(Open Front, Upward)

ITEM	DESCRIPTION	BUILDING SECTION	
		BEGINNING (48')	ADDITIONAL (16')
Concrete - under poles		11.3 Cu. Yds.	0.4 Cu. Yds.
Poles	6" top x 16'	18	2
Girders	2" x 12" x 16'-0"	9	3
Zones 2 & 3		288	96
Bracing	2" x 8" x 16'-0"	3	1
	2" x 4" x 8" c-c Ext. Plywood	4 1/2	21.4
	2" x 4" x 12'-0"	3	8
	2" x 6" x 12'-0"	3	12
	2" x 6" x 14'-0"	2	14
Trusses - 8'	2" x 6" x 14'-0"	4	11
Girts	2" x 4" x 16'-0"	54	117.4
Skirt	2" x 4" x 18'-0"	30	144
Roofing Squares	2" x 6" x 18'-0"	8	32
Sliding		29	2
Eaves Trough, Ln. Ft.		96	32



ATTIC VENTILATION
CEILING SHOWN FOR
COMMERCIAL LOUVER

Gussets may be omitted on one side of endwall truss
if building will never be lengthened.

SHEET 4: 50' SPAN TRUSSES

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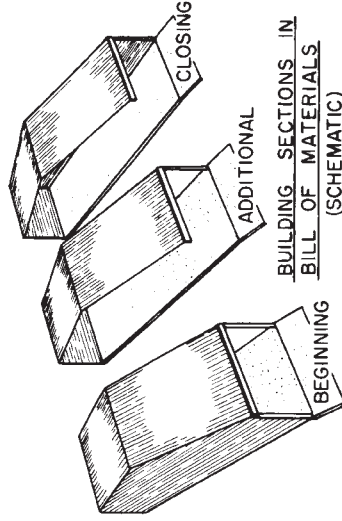
50' POLE
UTILITY BUILDING

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BUILDING SECTION (16' LONG)

ITEM	DESCRIPTION	BEGINNING NO. FBM	ADDITIONAL NO. FBM	CLOSING NO. FBM
Concrete Poles	Cu. feet 5" Top x 16'	4	2	2
	4" Top x 16'	4	2	2
Girders	2"x8"x16'0"	3	1	3
Bracing	$\frac{3}{4}$ "x4"x8' c-c, Ext. Plywood	4	85 1/3	85 1/3
	2"x4"x14'0"	1 1/2	1	1 1/2
	2"x6"x14'0"	3	18 2/3	9 1/3
	2"x6"x6'0"	2	1	1
	2"x6"x7'0"	2	14	6
Trusses	See Page 3	5	3	4
Girts	2"x4"x16'0"	7	74 2/3	74 2/3
	2"x4"x18'0"	7	84	84
Skirt	2"x6"x16'0"	10	3	10
Siding	2"x6"x16'0" Pressure-treated	5	80	160
Roofing	Sq. feet	445	160	445
	Sq. feet	448	448	448
Louver	Ln. feet Eaves trough	32	32	32
	2"x4"x6'0"	2	8	8
	1"x6"x10'0"	5	25	25
	1"x2"x12'0"	1	2	1
Man door	Sq. ft. screen	15	34	15
	4"x4"x12'6"	2	2	2
	2"x6"x2'0"	1	2	1
	1"x6"x10'0"	11	55	11



BUILDING SECTIONS IN
BILL OF MATERIALS
(SCHEMATIC)