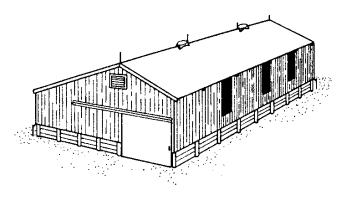
MWPS-72050

42' Wide Pole Utility Building

42' x 64' uninsulated pole utility building that can be used for livestock housing, crop storage, or machinery storage. The plan shows how to build a basic pole building with 14' x 16' bays in a building that can be 14', 28' or 42' wide and any multiple of 16' long.

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.



MIDWEST PLAN SERVICE

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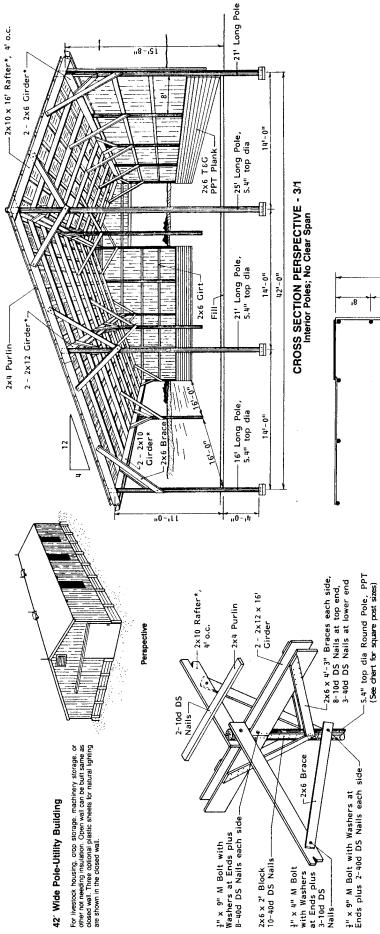
42' WIDE POLE UTILITY BUILDING

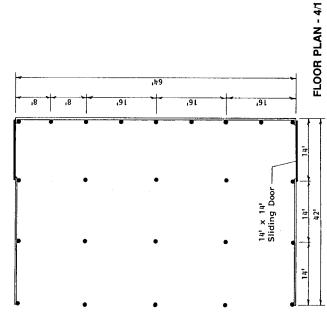
Title Page

MIDWEST PLAN NO. 72050

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.





-2 - 2x6 Girder*

- }" x 9" M Bolt with Washers at Ends

BACK WALL BRACING - 2/1 16' o.c.

L2x6 x 4'-3" Brace

2-40d DS Nails

-2x4 Purlin

½" × 4" M Bolt 2-10d DS Nails

2x6 x 7' Brace

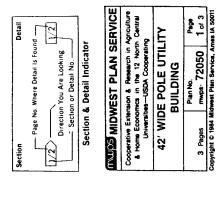
2x6 Block, 20d DS Nails

2x10 Rafter*_

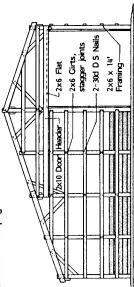
INTERIOR POLE TOP BRACING - 1/1
16' o.c.

-Trough

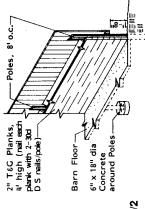
-Fascia



Framing continued from page 1.



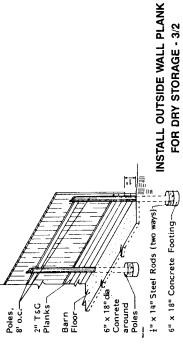
TYPICAL ENDWALL FRAMING - 1/2



PLANK FOR LIVESTOCK - 2/2 INSTALL INSIDE WALL

Hinged top plank opens for ventilation.

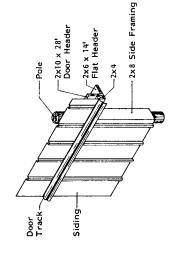
1 × 14" Steel Rods (two ways) 6" x 18" Concrete Footing-

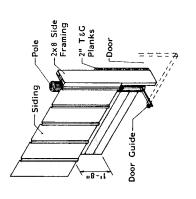


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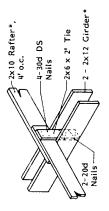
—— È	2 of 3
42' WIDE POLE UTILITY BUILDING	Plan No. 72050
42' WIDI	Rev. 3/84

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DOOR FRAMING DETAIL - 4/2



RAFTER TIE BETWEEN POLES - 5/2

Materials List (42' x 64' Barn)

(in the second s	Pressure preservative treated poles:	top x 16'	top x 18'	5.4" dia. top x 21" long	top x 22'	top x 25'
	Number	5	7	4	7	'n

Round pole diameters are the minimum size 3° from the upper end of the pole.

	TOTAL POLCE	3		200	eduare pores	
	8		Ξ	Full size	Ore	Dressed
ASA	흗					
class	Ë	Length	8, o.c.	16' o.c.	8, o.c.	$\underline{\mathbf{w}}$
9	5.4	16	5x5	6x8	4x6	6x8
		20	exe	8x8	9x9	8X9
က	7.3	24	8×9	6x10	8x8	8x8

tem

Number

600 BD Ft	Wall plank 2x6 x 14' T&G PPT
1000 BD Ft	End girts, braces & ties 2x6 x 14′ #2 H-fr or better
450 BD Ft	Backwall girts, girders 2x6* #1 SP or #1 D.fir
16	Interior girders 2x12 x 16"
80	*1 SP or *1 D-fir Front girders 2x10 x16'
5	#1 SP or #1 D-fir Batters 2×10 × 16**
,	*1 SP or #1 D-fir
4	#1 SP or #1 D-fir
1664 Lin Ft	Roof purlins 2x4 x 16' #2 H-fir
3100 Ft	Roofing (w/fasteners) corr. metal or
	asph. fiberboard
2000 Ft	Siding (w/fasteners) corr. metal or
٥,	ext. prywood Sliding doors w/track, latches and handles, 14' x 14'
83	1/2"x9" M. Bolts-two washers ea.
91	1/2"x7" M. bolts—two washers ea.
9 2	1/2"x4" M. botts-two washers ea.
1200	10d D.S. nails
2000	30d D.S. nails
1200	40d D.S. nails
90 Ft	#4 (1/2") rod (56 pieces of 1/2" x 14")
2 Yd³	Concrete for footings
Also needed:	Vents, louvers, trim, eave trough, downspouts, lightning rods are extra.

Note:
The plan with member sizes and bracing as shown are designed for:
#I southern pine or #I Douglas fir rafters, girders, and doorway headers.
Naxmunu allowable roof snow load is 25 pst.
To increase maxmunu allowable roof snow load to 38 pst:
Increase the closed wall girders from 2-2x6 to 2-2x8 in closed wall girders from 2-2x1 to 3-2x1 to 3-2x1.
Increase the interior girders from 2-2x1 to 3-2x1.
Increase the rafters from 2x10 to 2x12. To determine required snow load in your area, consult an engineer or local building official.

Abbreviations

penny nail size (10d)	diameter (bolts, etc.)	deformed shank (ring or	spiral shank hardened steel nails)	machine (bolts)	on center (spacing)	pressure preservative	treated (lumber)	tongue and groove (lumber)	
v	dia	SO		Σ	0.0	PPT		78.6	

