

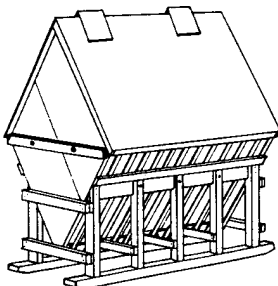
MWPS-74401

Portable Fertilizer Storage

An 8' x 8' x 16' plywood bin on skids. the bin is rotated 45° and supported above the skids to form a hopper bottom. Capacity is 24 ton.

WARRANTY DISCLAIMER

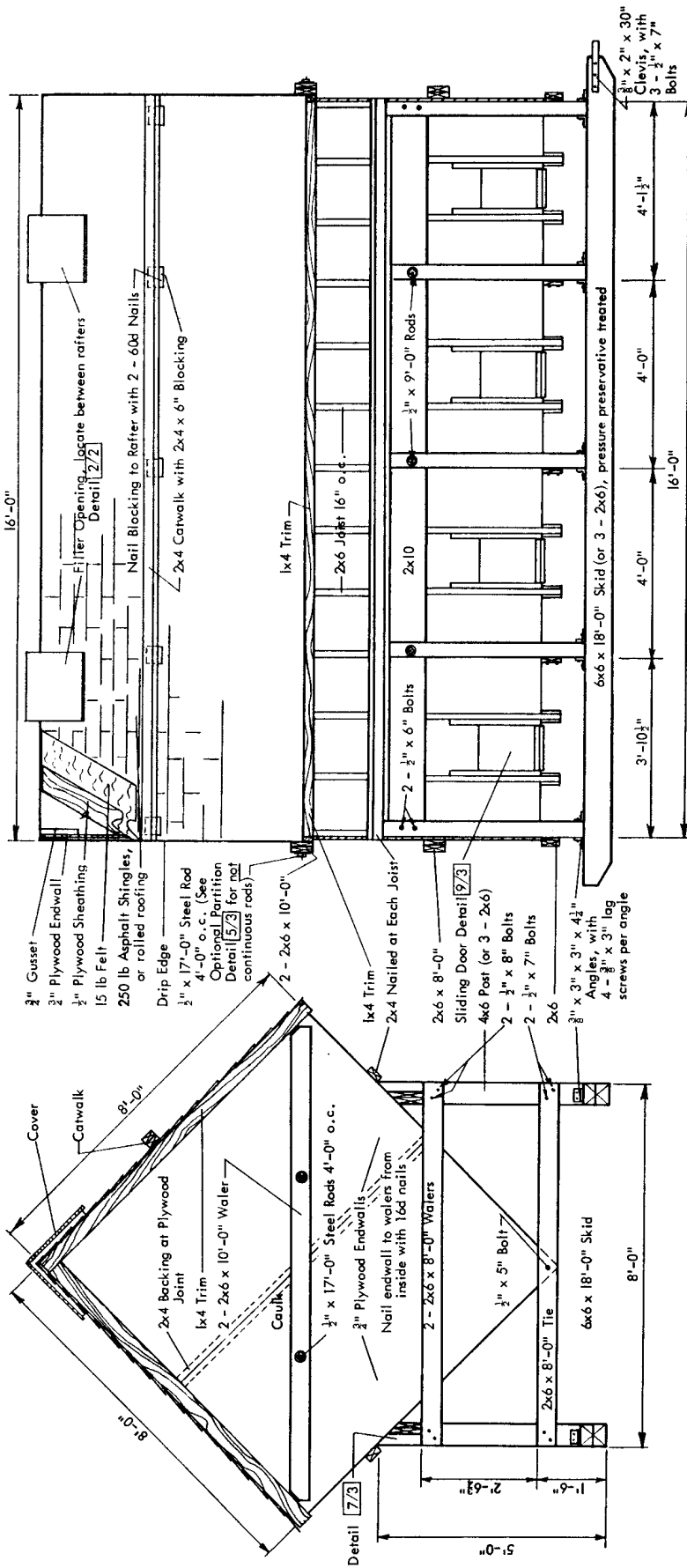
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PORTABLE FERTILIZER STORAGE
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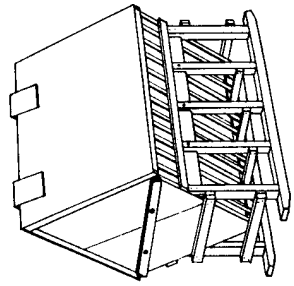
CAUTION!

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.**



END ELEVATION 1/1

SIDE ELEVATION 2/1



Capacity = 1 1/2 tons of 60 pct fertilizer per 1 ft of bin length.

It is important to provide racking strength in the frame to resist possible unbalanced loading. Bolt 2x6 bottom ties to joists and nail endwall to 8'-0" walers from inside with 16d nails.

Secure the empty bin against wind, locate it in a sheltered area with posts at each corner. Fasten crosspieces over the skids to the posts.

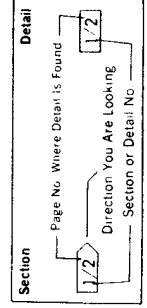
Park the bin on a solid, level site to prevent settling and permit easier unloading.

Do not attempt to move a loaded bin; the skid structure is not strong enough to withstand it.

Adapted from North Dakota State University Plan #732-1-4

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Section & Detail Indicator

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 24 TON

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BILL OF MATERIALS

NO.	DESCRIPTION
26	2x6x8'-0" Joists
26	2x4x8'-0" Rafters
2	2x10x16'-0" Girders
2	2x8x16'-0" Girders
5	2x4x16'-0" Sill & Blocks
1	2x4x16'-0" Calwalk
2	2x4x8'-0" Blocks
2	2x6x16'-0" Walkers
4	2x6x8'-0" Walkers
4	2x6x8'-0" Walkers
10	2x6x8'-0" Walkers
2	6x6x18'-0" Skids (pressure preservative treated)
2	1x4x8'-0" Trim
4	3/4" x 4'-0" x 8'-0" T&G Plywood Floor
8	3/4" x 4'-0" x 8'-0" Plywood Endwalls
1	3/4" x 4'-0" x 8'-0" Plywood Roof
1	3/4" x 4'-0" x 8'-0" Plywood Filler Opening, Sliding
3	Doors & Gussets
3	2x4x8'-0" Blocking & Door Guides
1	2x2x8'-0" Blocking
1	1x6x2'-0" Endwall Spacer
2	1/2" x 17'-0" Steel Rods
2	1/2" x 9'-0" Steel Rods
3	Asphalt Shingles, or rolled roofing
260 sq ft	Building Feet
8'-0"	3-8" x 3" x 3" Angle
180	3-8" x 3" Lag Screws
5	1/2" x 5" Bolts
20	1/2" x 5" Bolts
1	1/2" x 6" Bolts
82	1/2" Heavy Plate Washers
52	1/2" Nuts
2	1/2" x 2" x 30" Clevis
18'-0"	Z-Flashing
64'-0"	Drip Edge
20 lb	8d Nails
15 lb	16d Nails
10 lb	6d Nails
2 lb	50d Nails
	Resorcinol Resin Glue
	Use plain steel or stainless steel nails. Do not use galvanized nails.

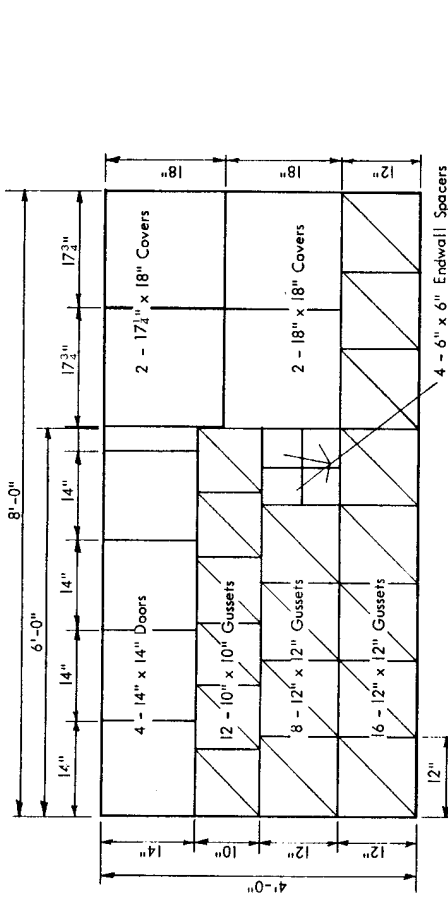
OPTIONAL PARTITION

2	3/4" x 4'-0" x 8'-0" Plywood
7	2x4x8'-0" Blocks
2	2x6x10'-0" Walkers
4	1/2" Heavy Plate Washers
4	1/2" Nuts

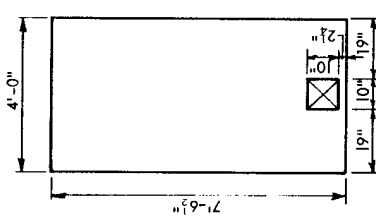
Substitute: 4 - 1/2" x 9'-0" Rods for 2 - 1/2" x 17'-0" Rods

LUMBER SPECIFICATIONS

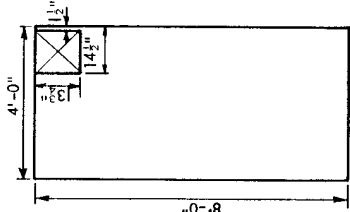
Dimension Lumber
 2x4 Construction Grade (Doug Fir, Southern Yellow Pine or Hem Fir).
 2x6 & up No. 2 or better (Doug Fir, Southern Yellow Pine or Hem Fir).
 Plywood
 Roof Sheathing—1/2" C-C Ext (Identification Index = 32/16).
 Bin Floor, Partitions & Endwalls—3/4" C-C Ext (Identification Index = 48/24).
 Skids
 Pressure Preservative Treated (Southern Yellow Pine or equivalent) creosote—10 pcr. Pentac—0.50 pcr. ACA or CCA (Type A or B)—0.40 pcr.



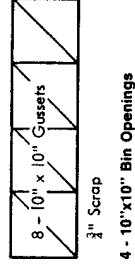
4'-0" x 8'-0" Sheet of 3/4" Plywood



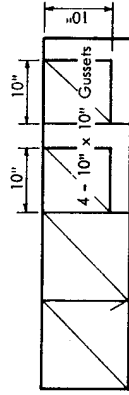
3/4" Plywood Floor Sheet With Sliding Door Opening



1/2" Plywood Roof Sheet With Filler Opening

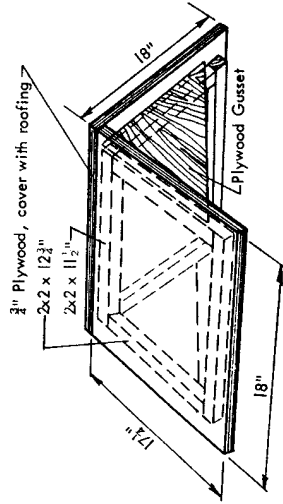


8 - 10" x 10" Bin Openings

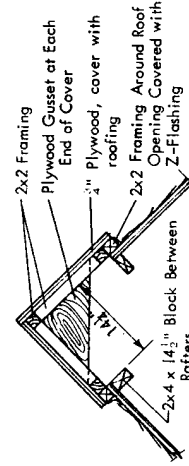


4 - 10" x 10" Gussets for Hatch Covers

CUTTING DIAGRAMS 1/2

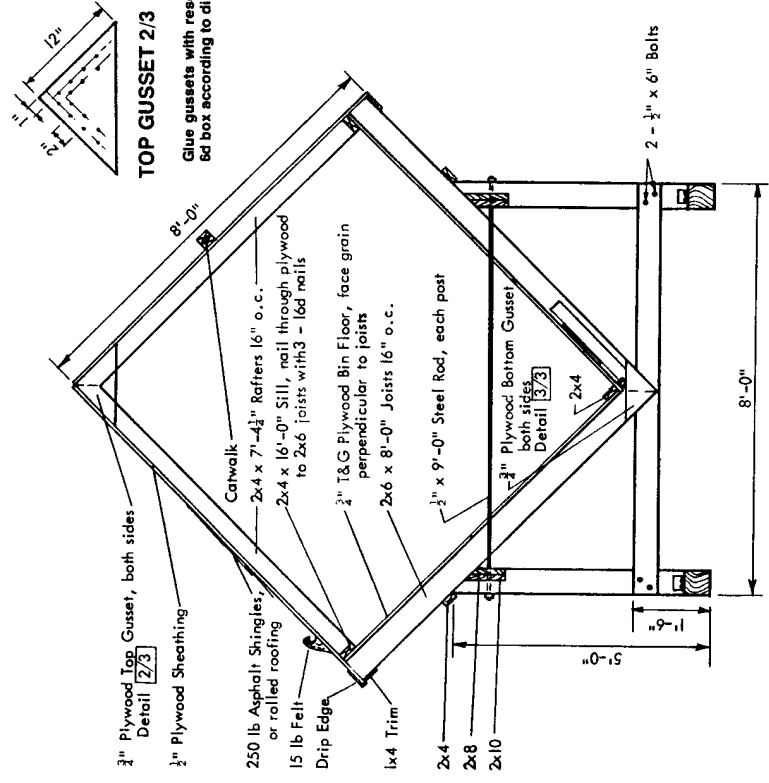


FILLER OPENING 2/2

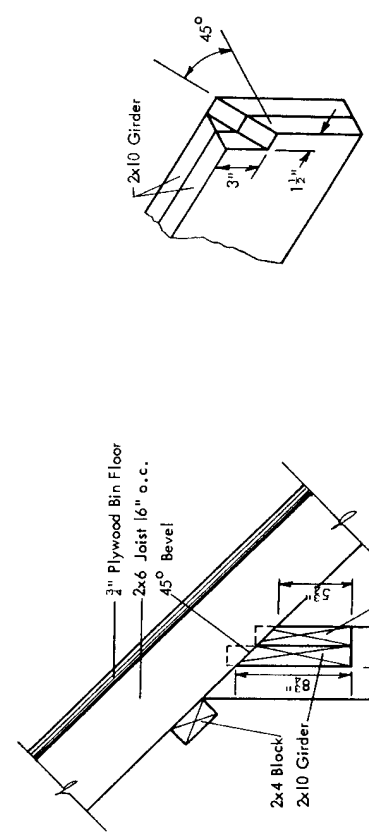


COVER DETAIL 3/2

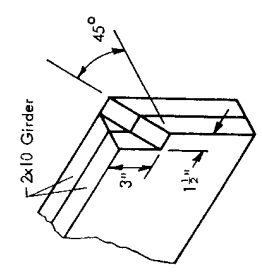
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SECTION 1/3

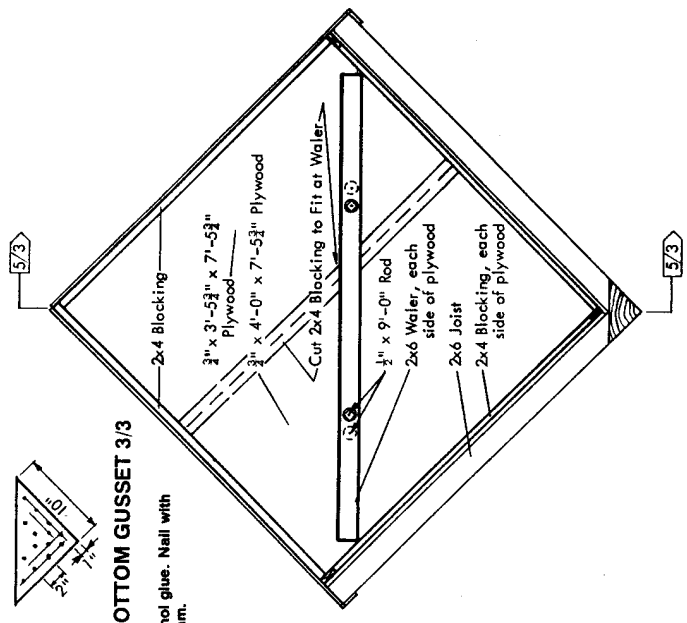


SUPPORT DETAIL 7/3



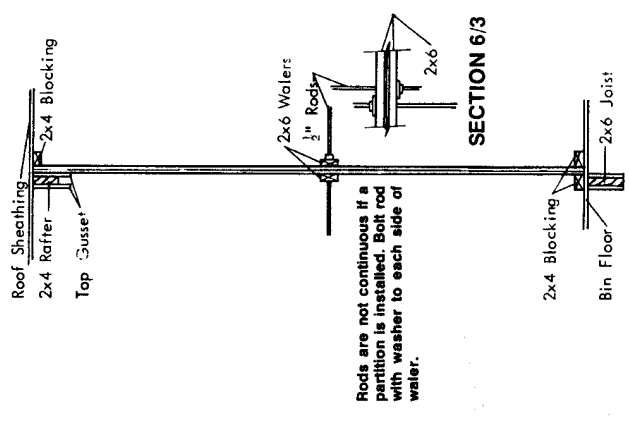
OPTIONAL GIRDER 8/3

Notches for joists cut with hand tools.



TOP GUSSET 2/3 **BOTTOM GUSSET 3/3**

Glue gussets with resorcinol glue. Nail with 6d box according to diagram.

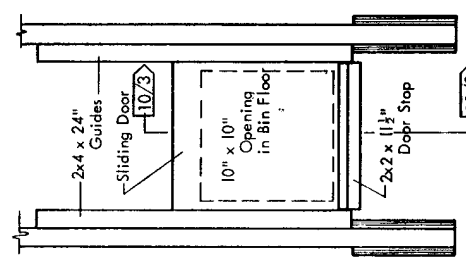


Rods are not continuous if a partition is installed. Bolt rod with washer to each side of waler.

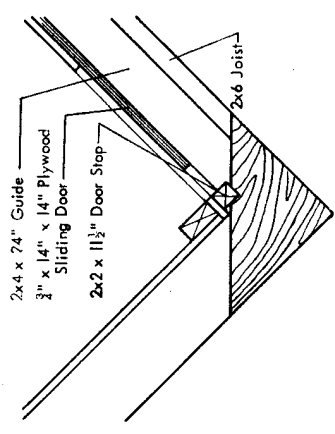
SECTION 5/3

SECTION 6/3

OPTIONAL PARTITION 4/3



SLIDING DOOR DETAIL 9/3



SECTION 10/3

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