

MWPS-74146

48' Pole Machine Shed

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
48' Pole Machine Shed
Title Page
MIDWEST PLAN NO. 74146

Use 48' glue-nailed trusses, 8'-0" o.c., alternate every other pair of trusses to opposite side of posts to install 16' & 8'-long roof purlins with staggered joints. Locate truss on far side of sliding door opening for knee brace installation.

Section Detail

Page No. Where Detail Is Found

Direction You Are Looking

Section or Detail No.

Section & Detail Indicator

TABLE OF CONTENTS

Description	Page
Floor and Footing Plan	1
Framed Opening	2
Lighting Plan	2
Walk Door Framing	2
Post Footing Detail	2
Knee Brace Detail	3
Building Section	3
Ending Framing	3
Swallow Door Details	4
16' Door Framing	5
24' Door Details	6
24' Door Framing	7
24' Beam	7
Overhead Door Details	8
Insulation Details	8
Shop Floor Plan	9
Shop Wall Details	10
Truss Details	Truss Page

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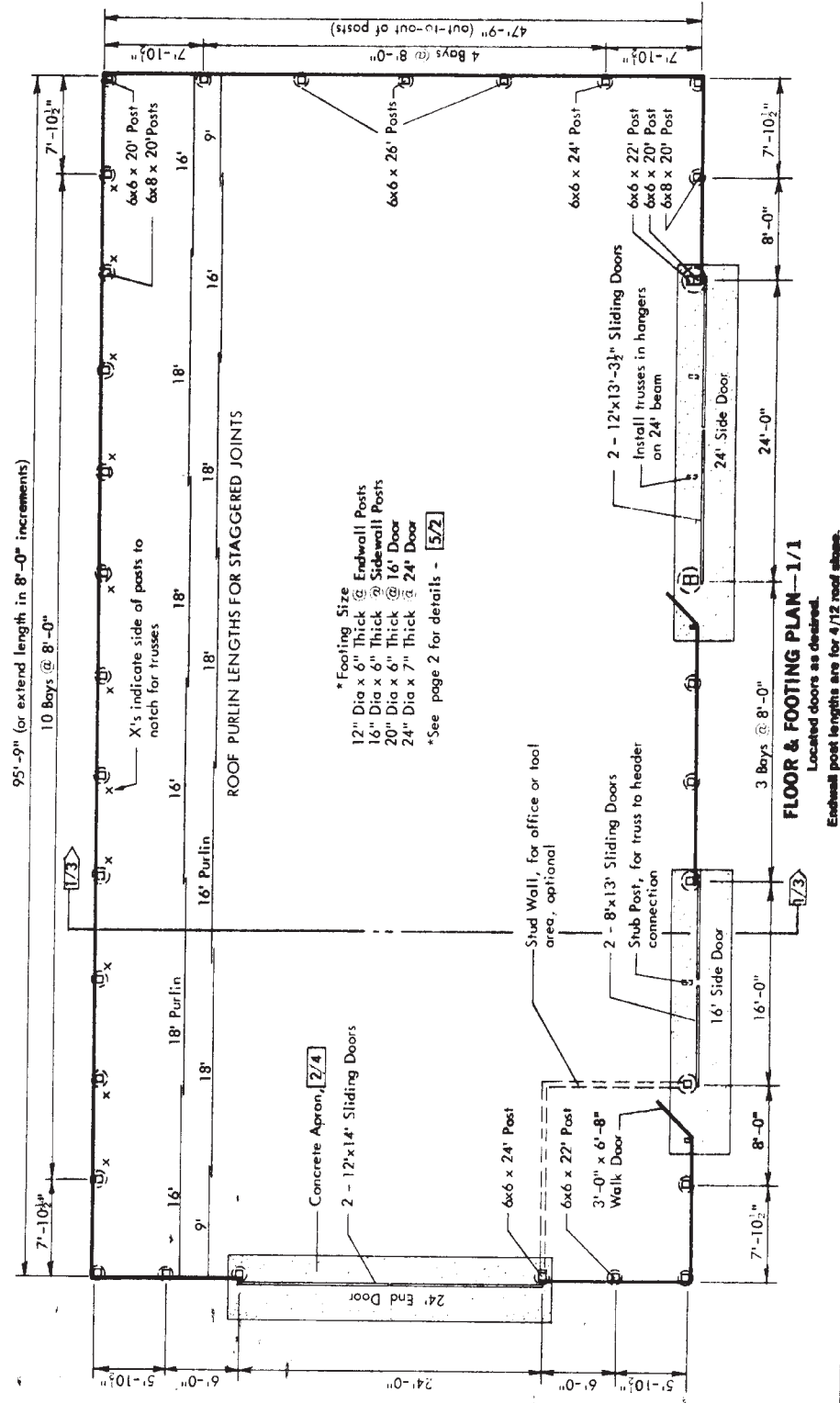
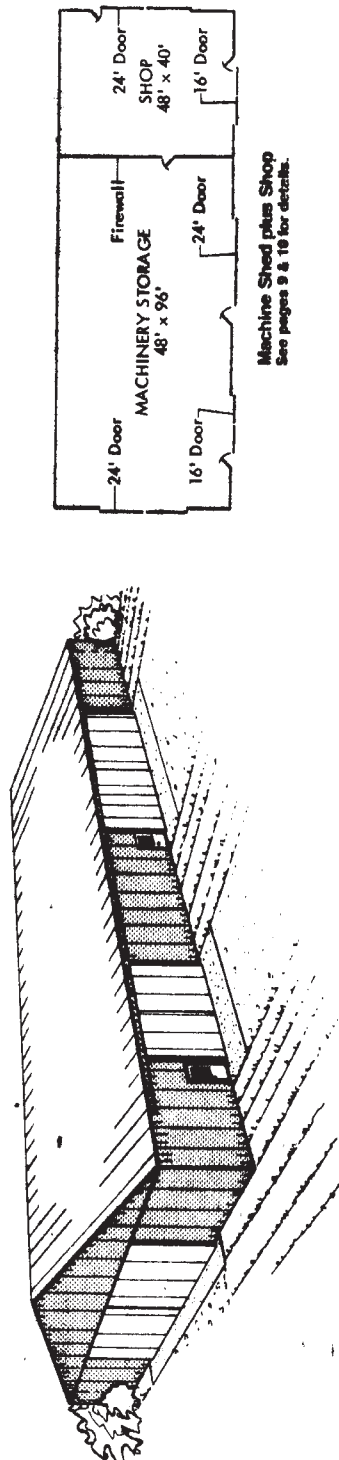
68' POLE MACHINE SHED

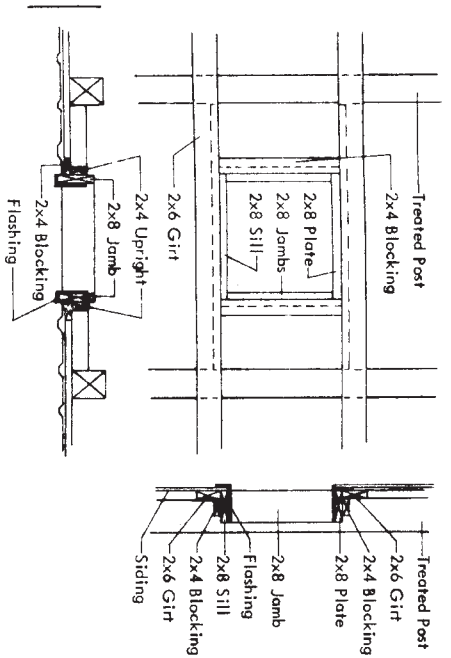
Page 1 of 10 Pages

MIDWEST PLAN NO. 74146

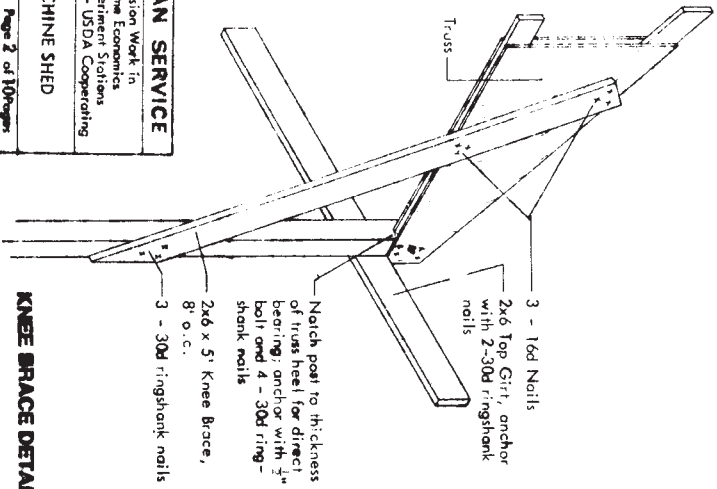
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Pages 2, 4-8, & 10 similar to
pages 2, 4-8, & 10 of 74143



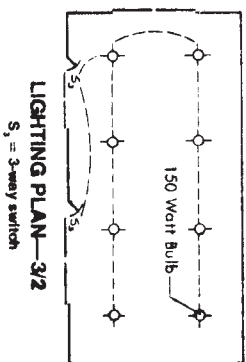


FRAMED OPENING DETAIL—1/2
For windows, fans and small vault doors.
For a building with an interior lining, extend the jamb, plate and sill to be flush with the inside edges of the posts.

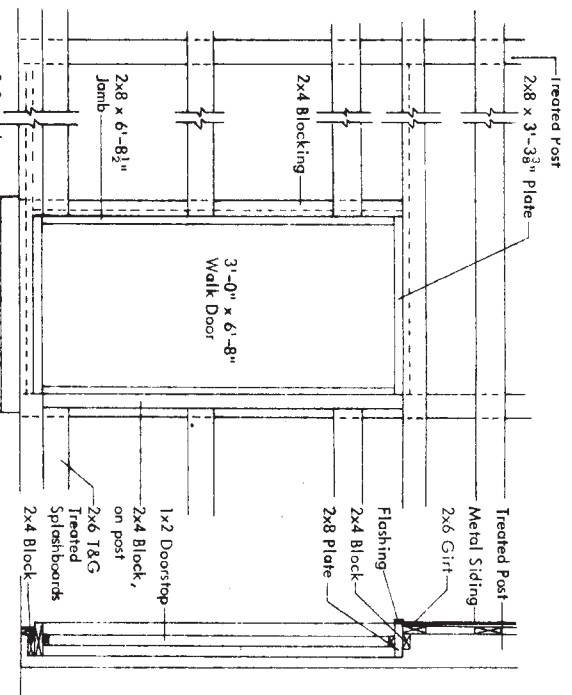


KNEE BRACE DETAIL—2/2

Alternate Lumber Specifications, Spacing and Sizes.
2x4 Purins (Construction Grade Hem-Fir) Max Spacing
Snow Zone 1 28' o.c.
Snow Zone 2 24' o.c.
Snow Zone 3 18' o.c.
2x6 Girts (No. 2 Hem-Fir)
Max Spacing 24' o.c.
Headers (No. 1 Hem-Fir)
16' Door
Snow Zone 1 3 - 2x12
Snow Zone 2 4 - 2x12
Snow Zone 3 5 - 2x12
24' Door
All Zones 5 1/2" x 24"
Pests (Round vs Sawm)
G6 = ASA or ASAE Class 5, 60" Top
Diameter
G6 = ASA or ASAE Class 7, 48" Top
Diameter
Trusses (No. 1 Hem-Fir)
See Truss Page



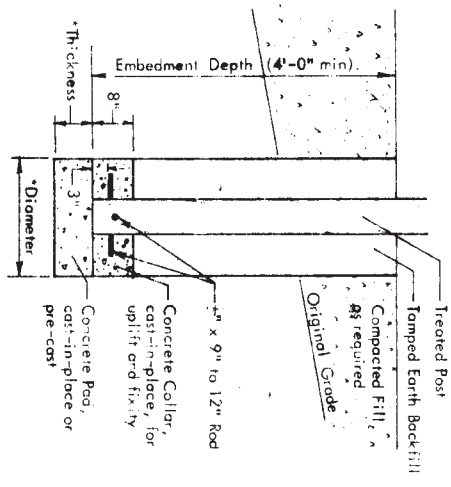
LIGHTING PLAN—3/2

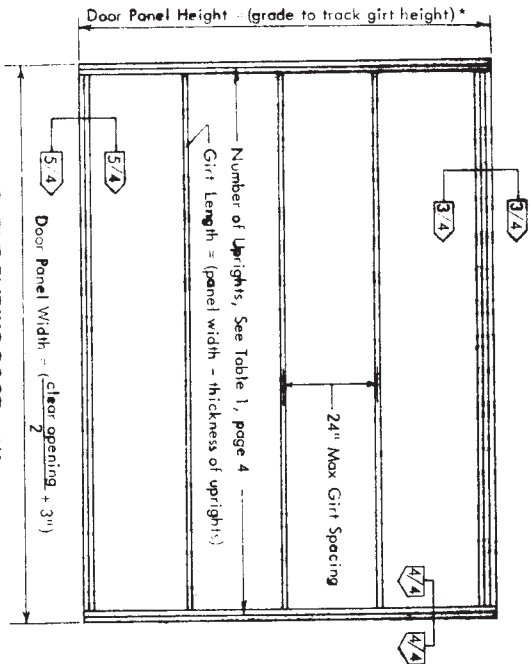


WALK DOOR FRAMING—4/2
For a building with an interior lining, extend the jamb, plate and sill to be flush with the inside edges of the posts.

*Footing Size
12" Dia x 6" Thick
16" Dia x 6" Thick
20" Dia x 6" Thick
24" Dia x 7" Thick @ 24' Door
Extend embedment depth as required to place footing on undisturbed soil. For large diameter footings, use smaller diameter auger and flare the bottom of the hole with Lineman's spoon.

POST FOOTING DETAIL—5/2

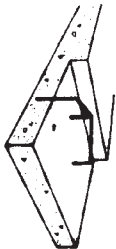




DOUBLE SLIDING DOOR—1/4

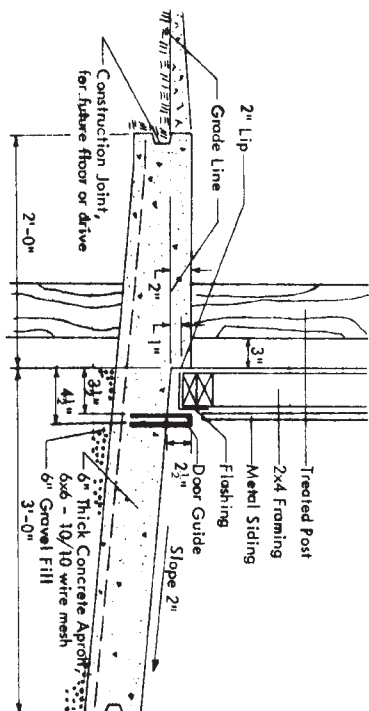
2x4 Framing

*If sliding door apron 2/4 is not installed, reduce door panel height by 2". Use clear opening dimensions from Detail 1/5 or 2/7.



"U"-Shaped Door Guide

Locate $\frac{1}{2}$ " dia x 20" "U"-shaped door guide at center of door opening. Break at center to force closing door against apron lip. Taper from 4 1/2" end to 3" center clearance.



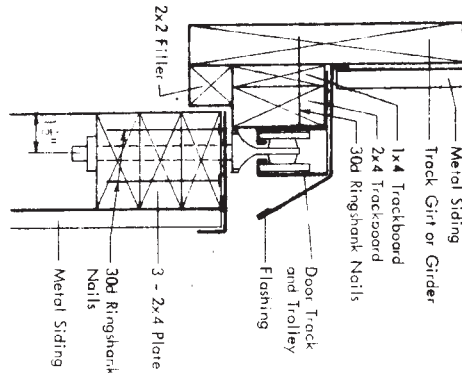
SLIDING DOOR APRON—2/4

See adjustable roller guides in the concrete apron at door jama. Use door stops as required.

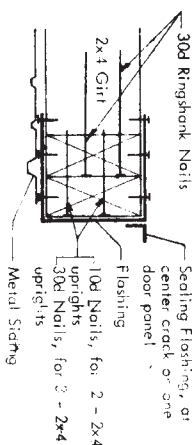
Table 1. Number of 2x4 uprights, each side of door panel.

Door Panel Height, ft	6	7	8	9	10	11	12	13
Door Panel Width, ft	2	2	2	2	2	2	2	2
8	1	1	1	1	1	2	2	2
9	1	1	1	2	2	2	2	2
10	1	2	2	2	2	2	2	2
11	2	2	2	2	2	2	2	3
12	2	2	2	2	3	3	3	3
13	2	2	2	2	3	3	3	4
14	2	2	2	2	3	3	3	4

Door Sliding Sheet length approx. 2" shorter than upright length.

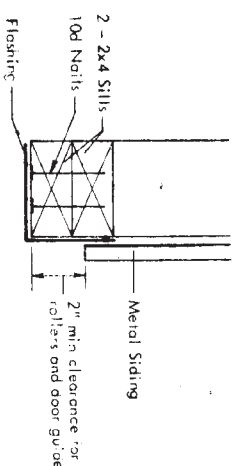


DOOR TRACK ASSEMBLY—3/4



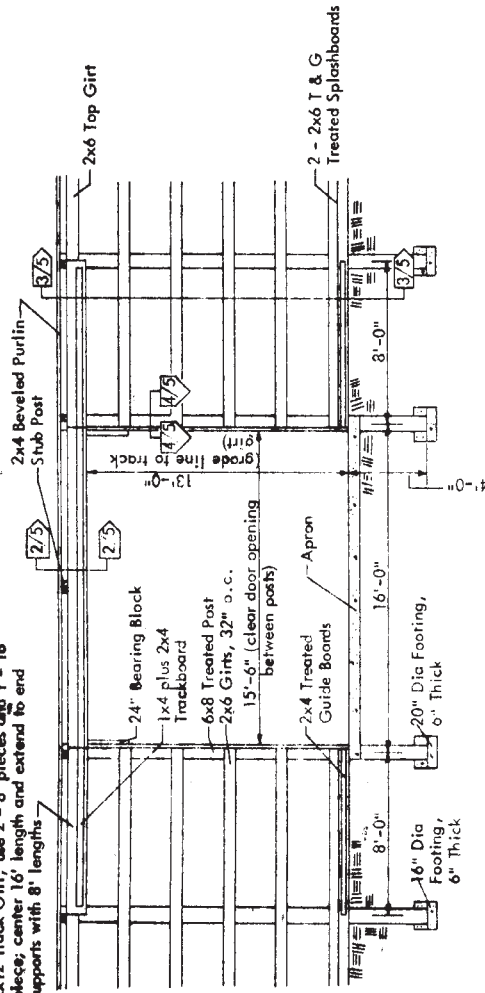
UPRIGHT SECTION—4/4

Extend flashing around uprights and nail to girts and uprights.



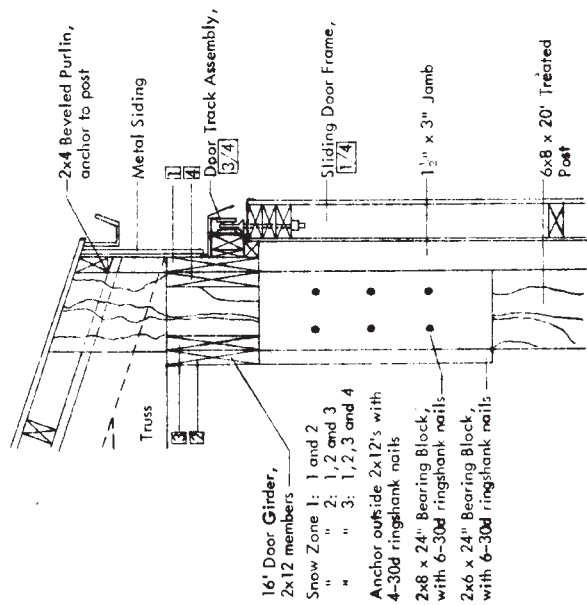
SILL SECTION—5/4

2x12 Track Girt, use 2 - 8' pieces and 1 - 16' piece; center 16' length and extend to end supports with 8' lengths

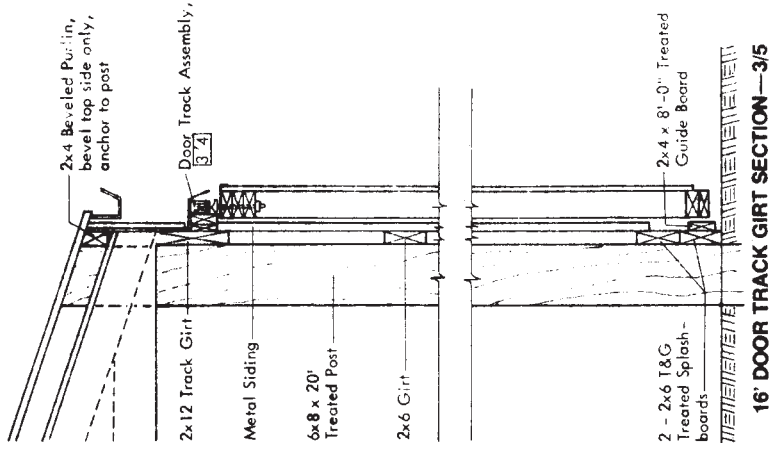


16' DOOR—1/5

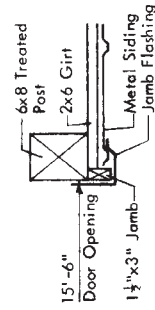
Use stub post for intermediate truss to girder connection, notch post to fit girder opening.



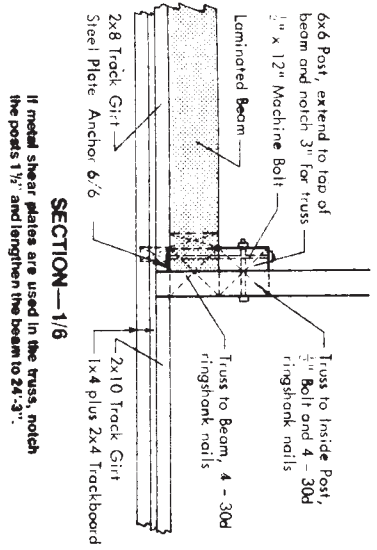
16' DOOR GIRDER SECTION—2/5



16' DOOR TRACK GIRT SECTION—3/5

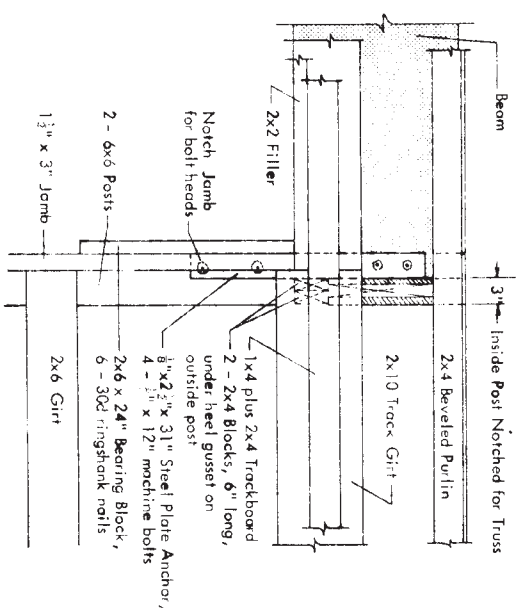


JAMB SECTION—4/5



SECTION - 1/6
 If metal shear plates are used in the truss, notch the posts 1 1/2" and lengthen the beam to 24'-3".

24'-0" Laminated Beam



BEAM TO COLUMN CONNECTION - 2/6

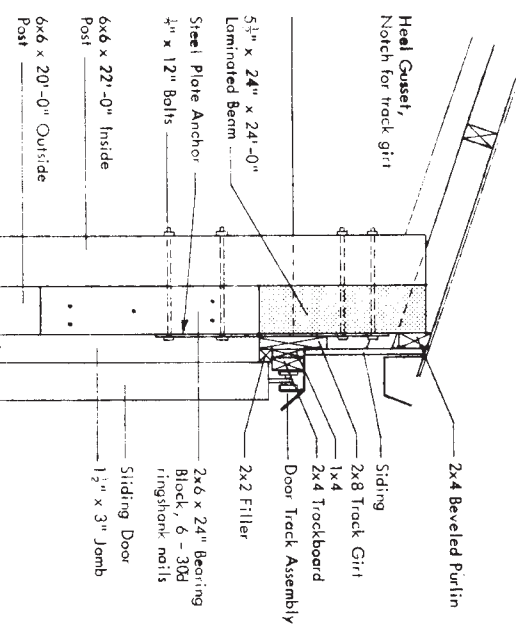
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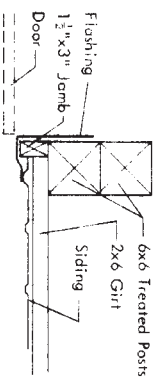
40' POLE MACHINE SHED

Page 6 of 10 Pages
 MIDWEST PLAN NO. 7413

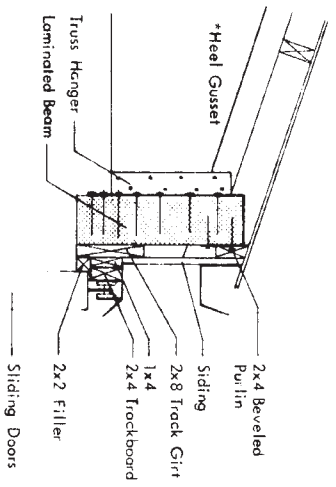
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SECTION - 3/6



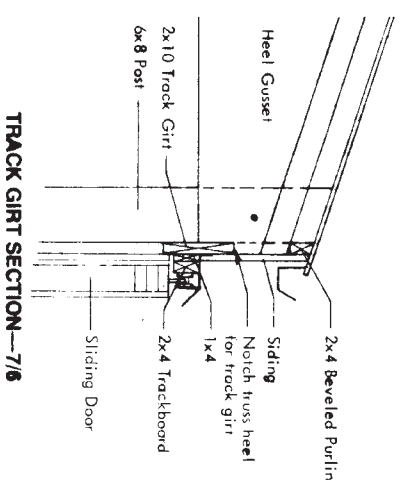
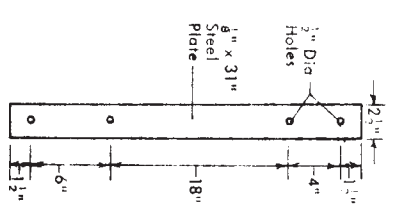
JAMB SECTION - 4/6



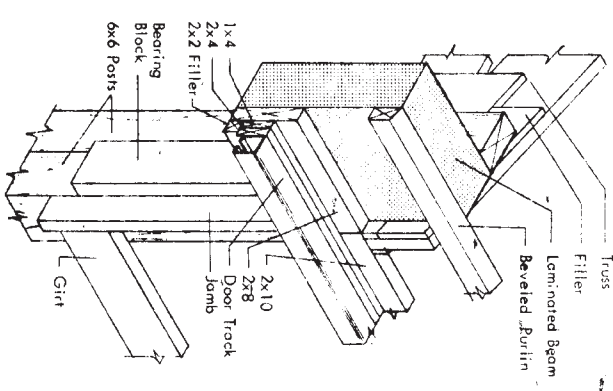
TRUSS TO BEAM - 5/6

* 40' truss with 7" cut off the heel. Extend gussets 7" to the left so they are not shortened.

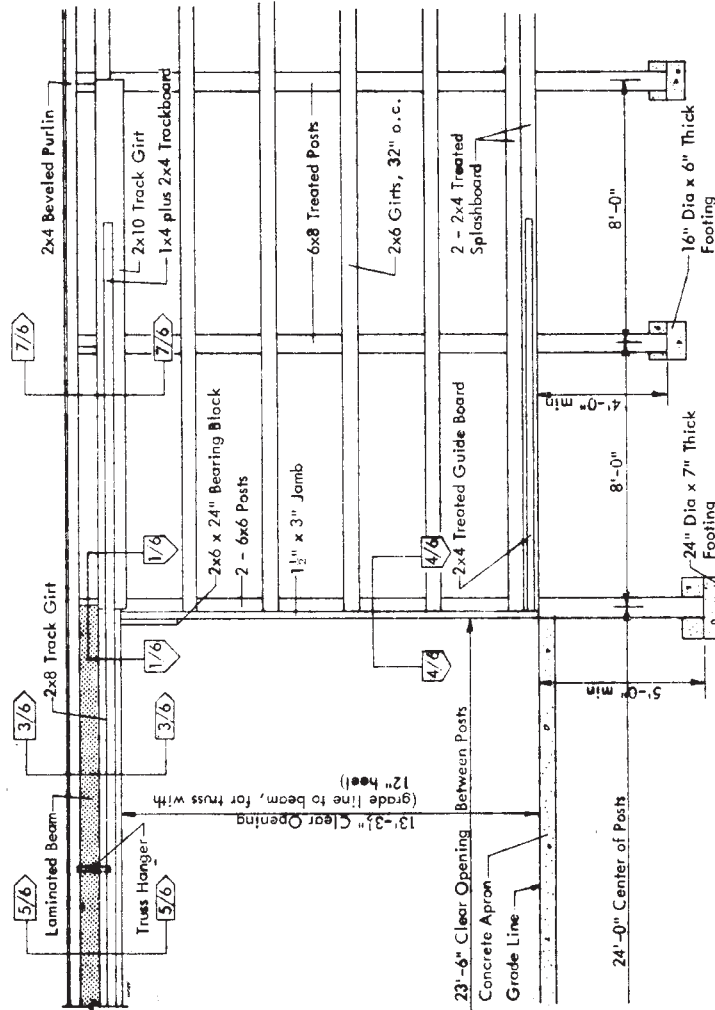
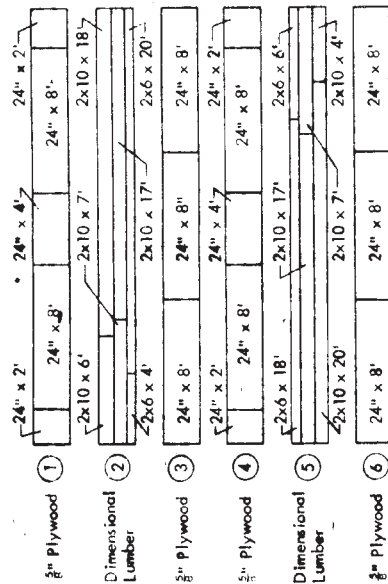
STEEL PLATE ANCHOR - 6/6

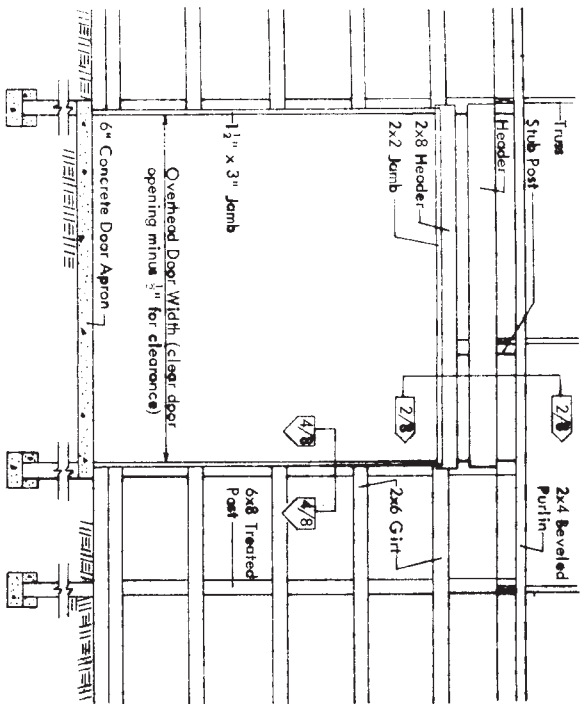


TRACK GIRT SECTION - 7/6

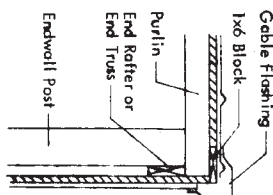


JOINT ASSEMBLY - 8/6

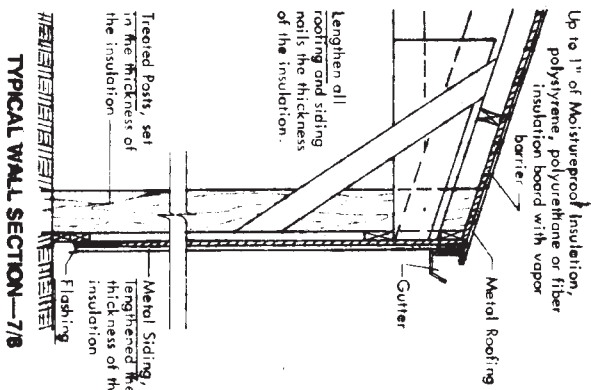




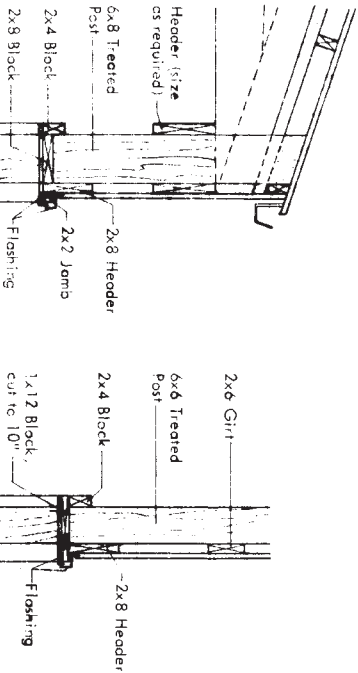
OVERHEAD DOOR FRAMING—1/8



TYPICAL GABLE END SECTION—5/8



TYPICAL WALL SECTION—7/8

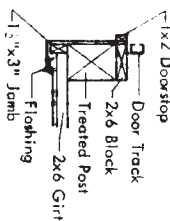


SIDEWALL HEADER SECTION—2/8

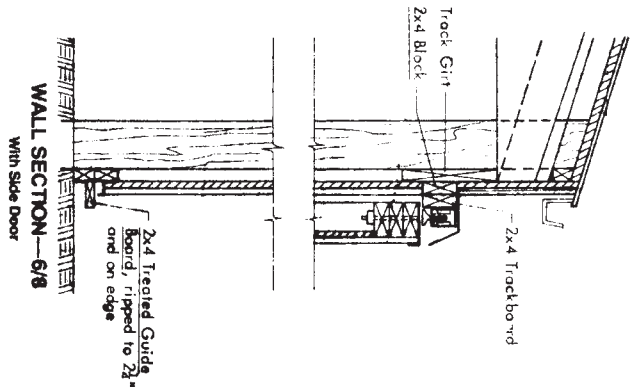
For 6x8 Post

ENDWALL HEADER SECTION—3/8

For 6x8 Post

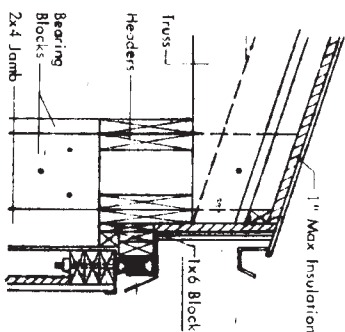


JAMB SECTION—4/8



WALL SECTION—6/8

With Side Door



16' DOOR HEADER—8/8

OVERHEAD DOOR DETAILS

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40' POLE MACHINE SHED

Page 8 of 10 Pages

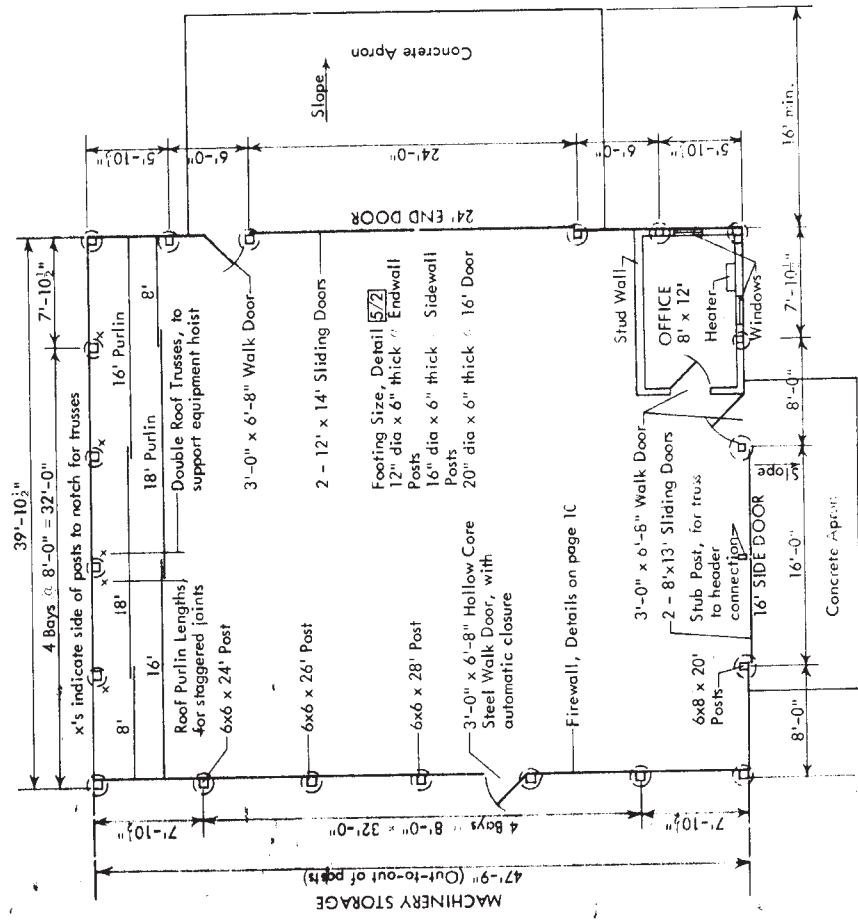
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INSULATION DETAILS

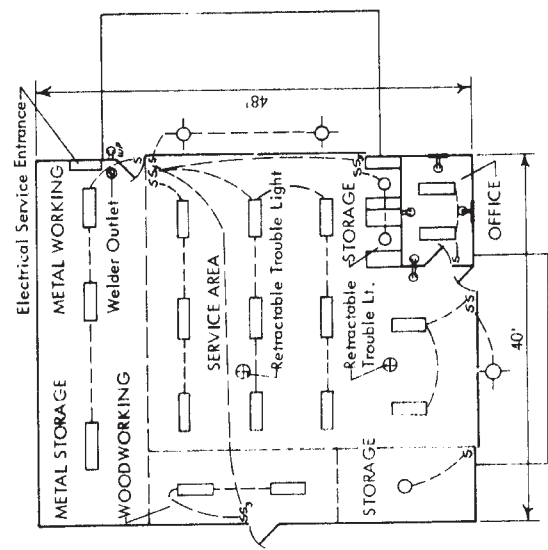
Underlines show materials that change when insulation is added.

Office	Electric: baseboard or wall unit, best size is 2,000-4,000 watts. Gas: wall unit, 10,000 Btu/hr, oversized.	Service Area	Underfloor: install 4" wide, U-shaped baseboard and the floor drain, open and towel floor. 2 ways from floor drain. Electric: 15 watts/ft. ² easy installation; potential failure due to floor cracks.	Hot water: 50 Btu/ft. ² ; high installation cost; durable.	Space hot air: 25,000 Btu/hr in lightly insulated shop, 50,000 Btu/hr in heavily insulated shop ceiling or wall mounted or pot belly stove.	Radiant: electric or gas over work area.
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GENERAL LIGHTING PLAN—3/9

See page 10 for general electrical specifications and this page for heating specifications



GENERAL LIGHTING PLAN—3/9

See page 10 for general electrical specifications and this page for heating specifications

Fluorescent lights may have difficulty starting at temperatures less than 32 F. Use 150 watt bulbs with reflectors in unheated shops.

- KEY:**
- S Single Pole Switch
 - S₃ 3-Way Switch
 - S₄ 4-Way Switch
 -  2 - 40 Watt Fluorescent Light
 -  100 Watt Light Bulb
 -  Retractable Trouble Light
 -  120 Volt Outlet
 -  150 Watt Weather-Proof Flood Light
 -  240 Volt Outlet
 -  Weather Proof

