MWPS-72361

Free Stall Dairy Barn

80 Cows Resting Only.

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

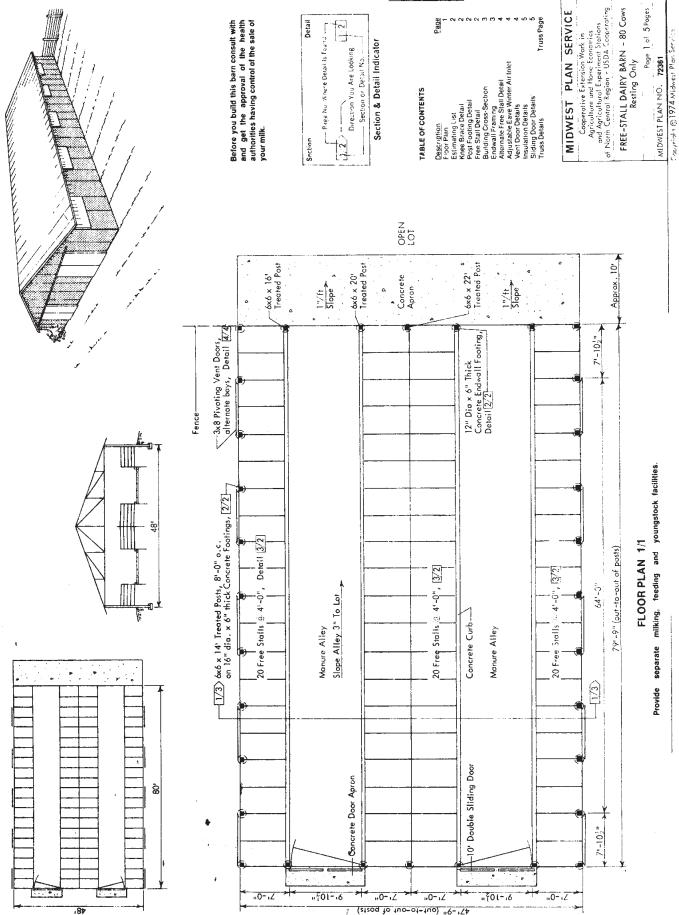
This plan provides conceptual information only. Neither midwest plan service nor any of the cooperating land-grant universities, or their respective agents or employees, have made, and do not hereby make, any representation, warranty or covenant with respect to the specifications in this plan. Additional 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.

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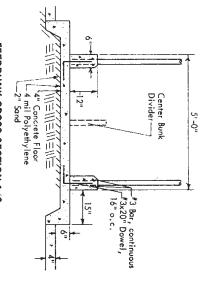
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> Free-Stall Dairy Barn 80 Cows Resting Only Title Page

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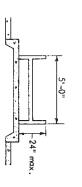


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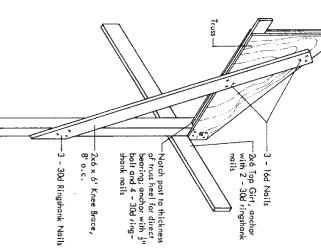


FEEDBUNK CROSS-SECTION 1/2

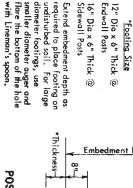
Install center bunk divider if herd is divided and fed different rations.



If raised bunk floor is desired set precast bunk on slab.



KNEE BRACE DETAIL 2/2



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DAIRY BARN - 62 FREE STALLS Mechanical Waste Scraper

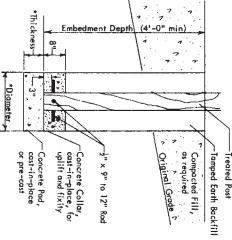
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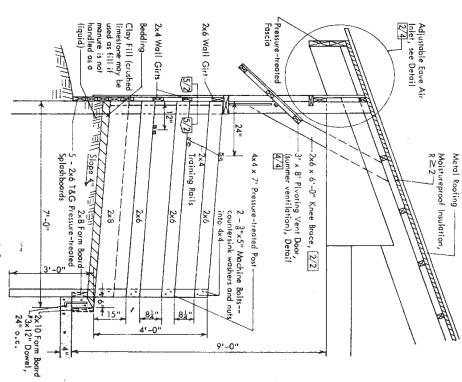
POST FOOTING DETAIL 3/2

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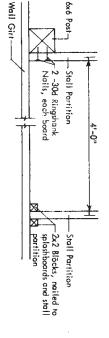




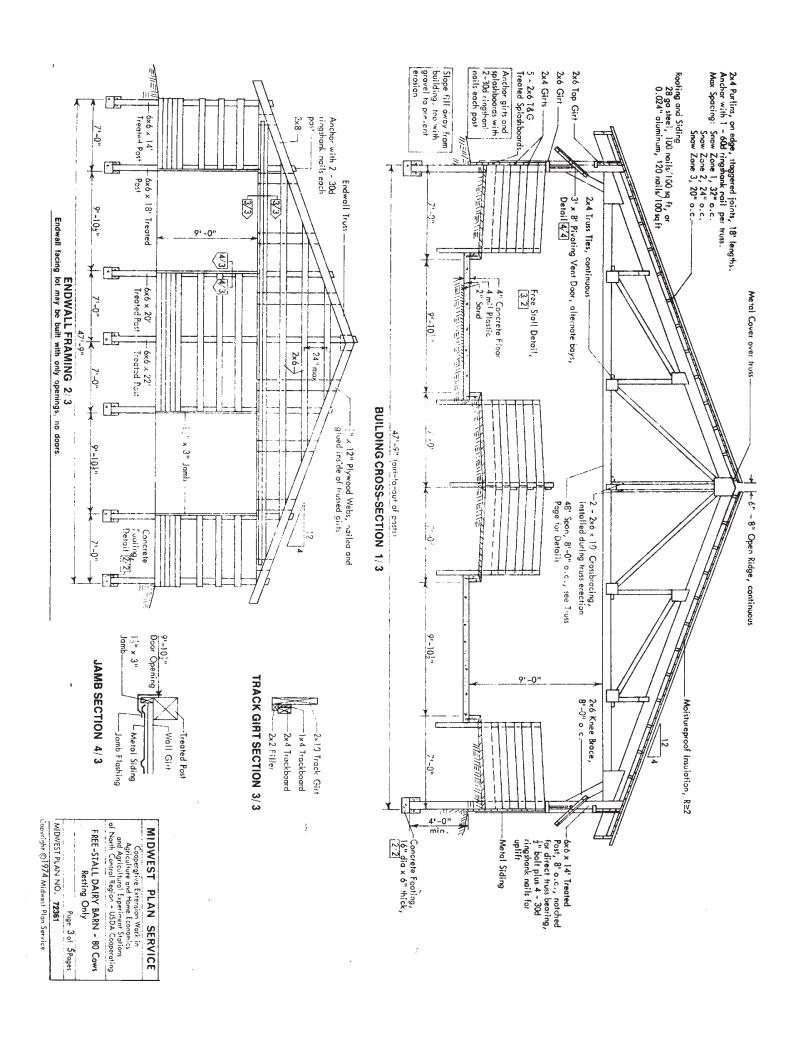
FREE STALL DETAIL 4/2

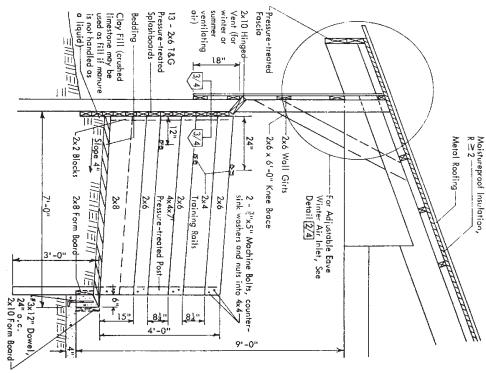
Install 2x4 training rails if cows turn around in stalls or deposit manure at back of stall—3 rails will force the cow to move back as it gets up so its shoulders can't get caught under the top rail. Install 2x8 bottom stall partition board if cows move fill and bedding from stall to stall causing deep holes in stalls.

If cows have access to outside of building, use wood siding (treated plywood or splashboards) on bottom 4 feet of wall.



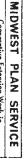
WALL CONNECTION 5/2





ALTERNATE FREE STALL DETAIL 1/4

stall—3 rails will force the cow to move back as it gets up so its shoulders can't get caught under the top rails. Install 2x8 bottom stall partition board if cows move fill and bedding from stall to stall causing deep holes in stalls. Install 2x4 training rails if cows turn around in stalls or deposit manure at back of



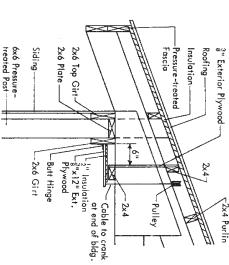
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Mechanical Waste Scraper

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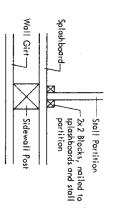
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ADJUSTABLE EAVE WINTER AIR INLET 2/4

2x10 hinged vent doors for summer air inlets. To be used in combination with pivoting vent doors or



WALL CONNECTION 3/4

Atternate Lumber Specifications, Spacing and Sizes.

2x4 Purlins (Construction Grade Hem-Fir) Max

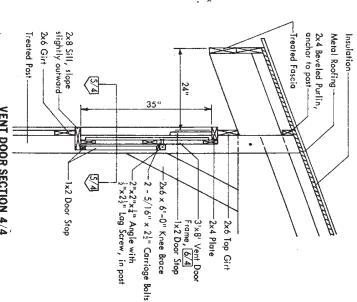
Snow Zone 1: 28" o.c. Snow Zone 2: 24" o.c. Snow Zone 3: 18" o.c.

2x6 Girts (No. 2 Hem-Fir) Max Spacing: 20"

Posts (Round vs Sawn)

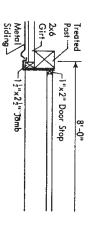
6x6 = ASA or ASAE Class 7, 4.8" Top Diameter

Trusses (No. 1 Hem-Fir) See Truss Page

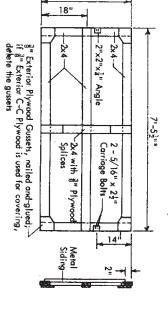


VENT DOOR SECTION 4/4

Hold vent door open with a light metal chain from the vent door frame to an eye hook in the silt.

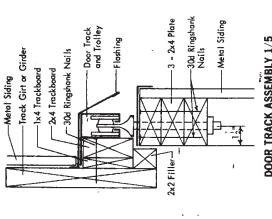


JAMB SECTION 5/4

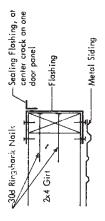


*Alter this dimension for other than 6" wide building posts or other than 8" a.c.

3' x 8' VENT DOOR FRAME 6/4

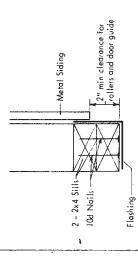


DOOR TRACK ASSEMBLY 1/5

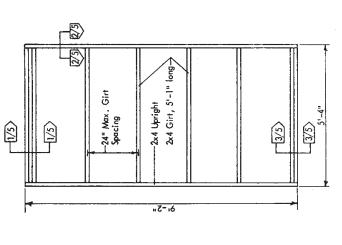


UPRIGHT SECTION 2/5

Extend flashing around uprights and nail to girts and uprights.

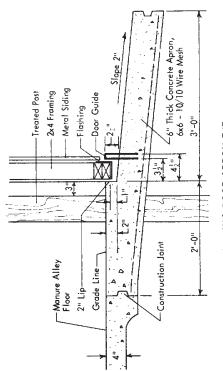


SILL SECTION 3/5



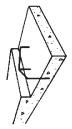
DOUBLE SLIDING DOOR 475

2x4 Framing



SLIDING DOOR APRON 5/5

Set adjustable roller guides in the concrete apron at door jamb. Use door stops as required.



"U"-Shaped Door Guide

Locate ½" dia x 20" "U"-shaped door guide at center of door opening. Breek at center to foce closing door against aprolip. Taper from 4½" end to 3½" center clearance.

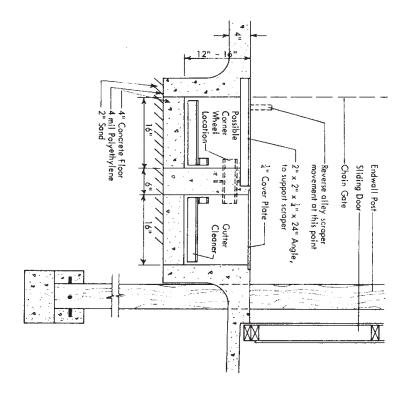
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GUTTER CLEANER CROSS-SECTION 1/6

IMPORTANT: Use a flexible gate and reverse elley scraper movement at near edge of gutter to prevent possible cow

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INSULATION DETAILS
Underlines show materials that change when insulation is added.

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