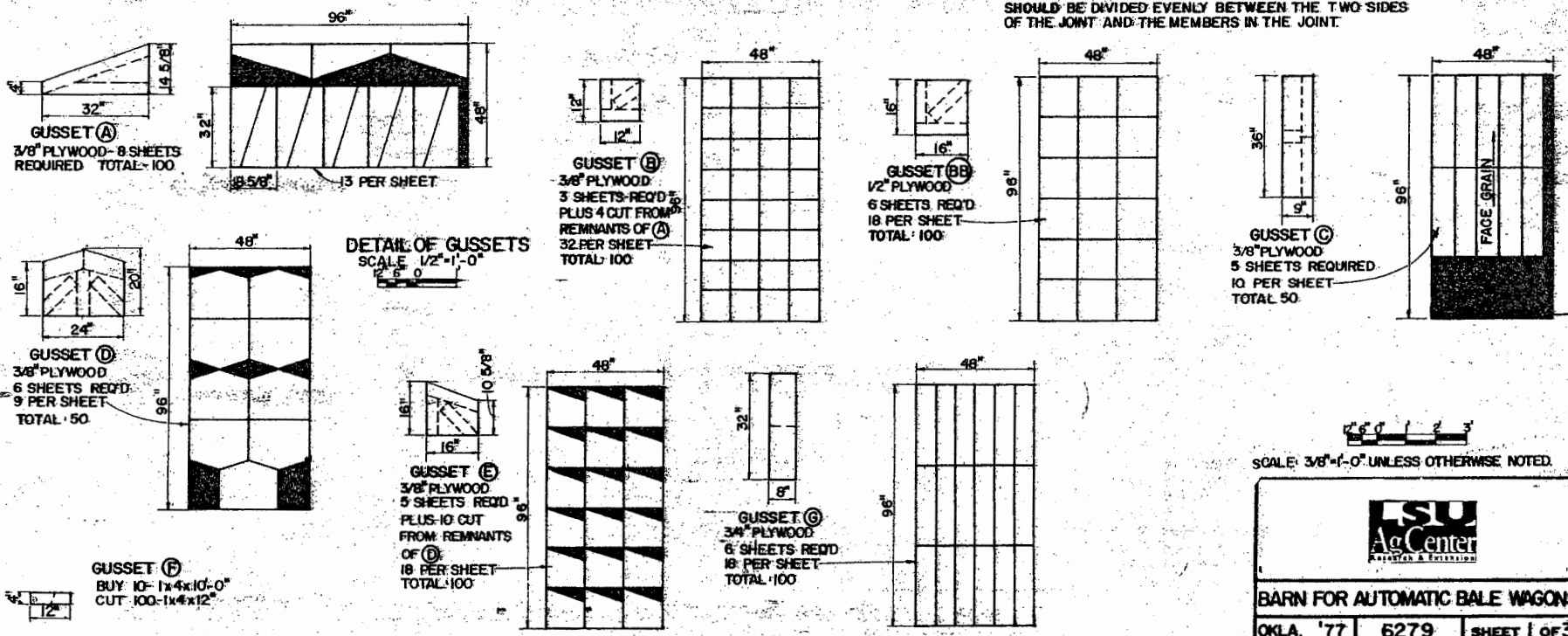


NOTE:
THE NUMBER OF NAILS SPECIFIED FOR EACH JOINT
SHOULD BE DIVIDED EVENLY BETWEEN THE TWO SIDES
OF THE JOINT AND THE MEMBERS IN THE JOINT.

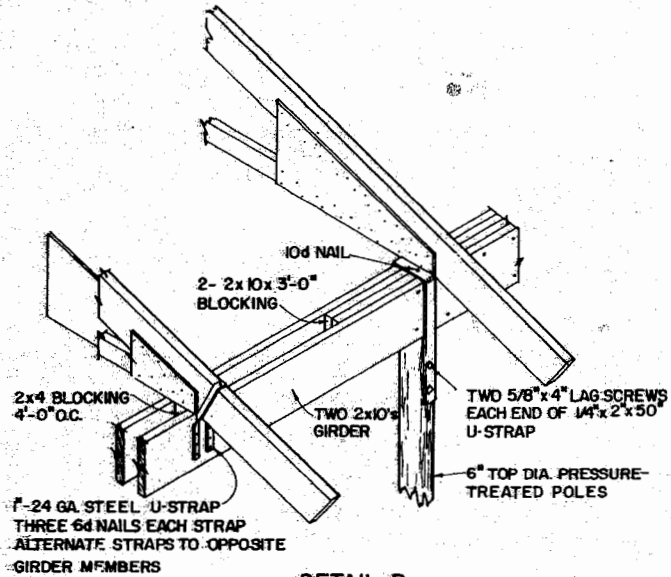


SCALE: 3/8" = 1'-0" UNLESS OTHERWISE NOTED.

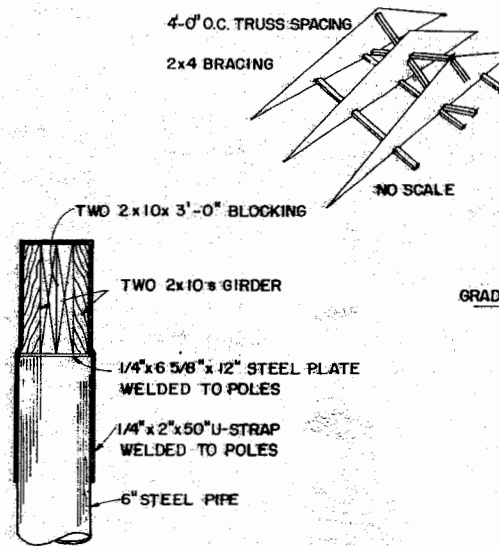
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BARN FOR AUTOMATIC BALE WAGONS

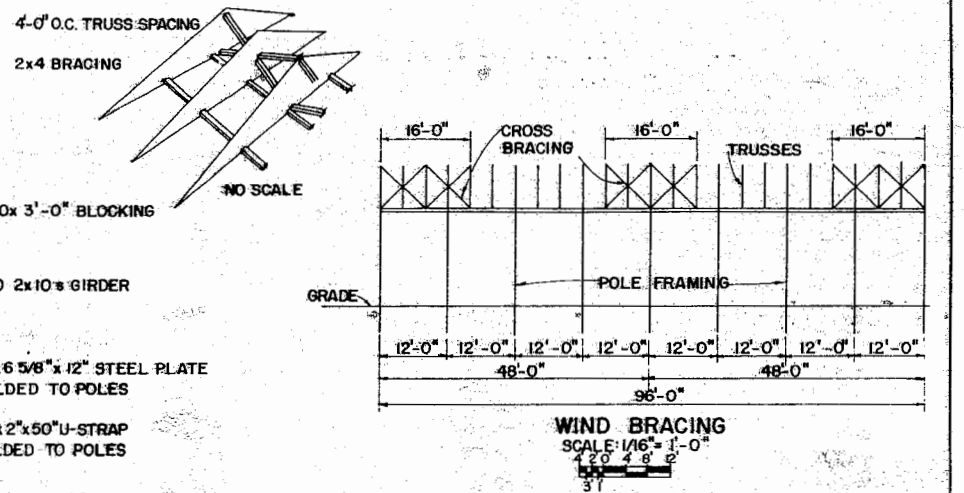
OKLA. '77 6279 SHEET 1 OF 3



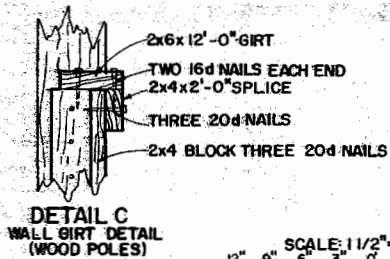
DETAIL A
(WOOD POLES)
SCALE: 3/4" = 1'-0"
1 2 3 4 5 6 7 8 9 10



DETAIL B'
(STEEL POLES)
SCALE: 1/2" = 1'-0"

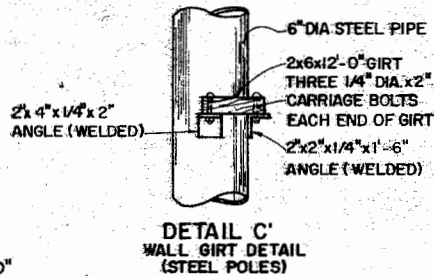


WIND BRACING
SCALE: 1/16" = 1'-0"
1 2 3 4 5 6 7 8 9 10

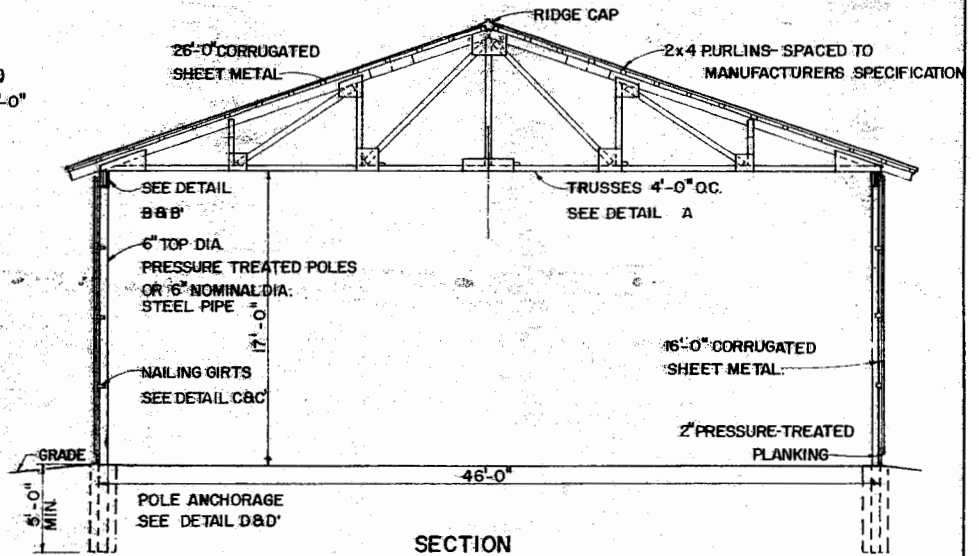


DETAIL C
WALL GIRTS
(WOOD POLES)

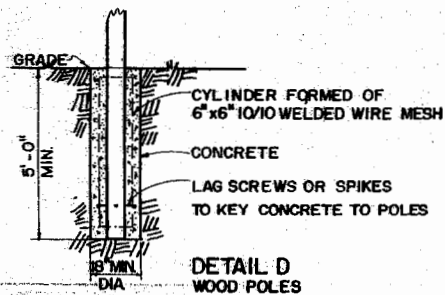
SCALE: 1 1/2" = 1'-0"
1 2 3 4 5 6 7 8 9 10



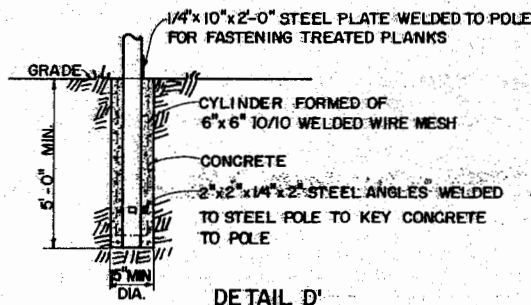
DETAIL C'
WALL GIRTS
(STEEL POLES)



SECTION
SCALE: 3/16" = 1'-0"
1 2 3 4 5 6 7 8 9 10



DETAIL D
WOOD POLES



DETAIL D'
STEEL POLES

SCALE: 3/8" = 1'-0" UNLESS OTHERWISE NOTED.



BARN FOR AUTOMATIC BALE WAGONS
OKLA. '77 6279 SHEET 2 OF 3

BILL OF MATERIALS - BASIC BUILDING (46' x 96') - NO SIDES

POLES

WOOD - 6" MINIMUM TOP DIAMETER
10" MINIMUM BUTT DIAMETER. SELECT POLES THAT ARE STRAIGHT OR
18 - 22'-0" LENGTH (396 LIN. FT.)

STEEL - 6" NOMINAL DIAMETER STEEL PIPE
6.625" OUTSIDE DIAMETER, .280" WALL
THICKNESS. SELECT PIPE THAT IS FREE
OF DEEP RUST PITS AND APPLY RUST-PROOF
PAINT AFTER ERECTION. HOLES MUST NOT
BE DRILLED THRU THE POLES.
18 - 22'-0" LENGTH (396 LIN. FT.)

GIRDERS

BUY	CUT	
40 - 2 x 10 x 12'-0"	32 - 2 x 10 x 12'-0"	(800 BD. FT.)

28 - 2 x 10 x 3'-0"
8 - 2 x 10 x 1'-6"

BLOCKING - 2 - 2 x 4 x 12'-0"	32 - 2 x 4 x 9"	(16 BD. FT.)
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NAILS - 15 LBS. 10d COMMON NAILS

PURLINS - USE LAP NAILING WITH TWO 10d RING-SHANK HARDENED NAILS PER MEMBER.
224 - 2 x 4 x 14'-0" (OR NUMBER REQUIRED BY ROOF MANUFACTURER'S SPECIFIED SPACING).
(2070 BD. FT.)

NAILS - 28 LBS. 10d RING-SHANK HARDENED NAILS

ROOFING - 98 SHEETS 26'-0" CORRUGATED METAL ROOFING (51 SQUARES)

SIDING FOR GABLE ENDS - 24 SHEETS 9'-0" OR 12 SHEETS 18'-0"
CORRUGATED METAL SIDING (432 SQ. FT. = 5 SQUARES)

RIDGE CAP - 100 LIN. FT.

NAILS - 280 LBS. LEAD-HEAD, SCREW-SHANK, GALVANIZED ROOFING NAILS

TRUSSES - USE CONSTRUCTION OR NO. 2 YELLOW PINE OR BETTER

	BUY	CUT	
UPPER CHORD	50 - 2 x 8 x 20'-0"	50 - 2 x 8 x 20'-0"	(1,334 BD. FT.)
UPPER CHORD	25 - 2 x 8 x 12'-0"	50 - 2 x 8 x 6'-0"	(400 BD. FT.)
LOWER CHORD	50 - 2 x 4 x 24'-0"	50 - 2 x 4 x 23'-0"	(800 BD. FT.)
WEB	13 - 2 x 4 x 12'-0"	50 - 2 x 4 x 3'-0"	(104 BD. FT.)
WEB	50 - 2 x 4 x 10'-0"	50 - 2 x 4 x 10'-0"	(334 BD. FT.)
WEB	25 - 2 x 4 x 12'-0"	50 - 2 x 4 x 6'-0"	(200 BD. FT.)
WEB	50 - 2 x 4 x 12'-0"	50 - 2 x 4 x 11'-0"	(400 BD. FT.)
KINGPOST	13 - 2 x 4 x 16'-0"	25 - 2 x 4 x 8'-0"	(132 BD. FT.)

GUSSETS - CC EXTERIOR GRADE PLYWOOD.

28 SHEETS 3/8"	SEE CUTTING DIAGRAMS
6 SHEETS 1/2"	
6 SHEETS 3/4"	
10 - 1 x 4 x 10'-0"	

NAILS - 100 LBS. 10d HELICALLY-THREADED HARDENED NAILS

WIND BRACING - 24 - 2 x 4 x 12'-0" BOTTOM CHORD	(192 BD. FT.)
12 - 2 x 4 x 12'-0" CROSS BRACING	(96 BD. FT.)

CONCRETE - 5 CU. YDS. - TO SET POLES

MISCELLANEOUS - 18 - 1/4" x 2" x 50" STEEL U STRAPS
50 - 1" x 24 GAGE x 30" METAL U STRAPS (PLUMBER'S STRAP)
2 LB. 6d COMMON NAILS
400 SQ. FT. 6" x 6" 10/16 WELDED WIRE MESH CUT
18 - 4'-6" x 5'-0" PIECES TO FORM REINFORCING CYLINDERS

WOOD POLES ONLY - 72 - 5/8" x 4" LAG SCREWS FOR U STRAPS
72 - 1/2" x 5" LAG SCREWS OR SPIKES FOR POLE ANCHORAGE

STEEL POLES ONLY - 18 - 1/4" x 6" x 12" STEEL PLATES FOR GIRDER SUPPORT
72 - 3" x 3" x 4" x 1/4" ANGLES FOR POLE ANCHORAGE

ADDITIONAL MATERIALS FOR SIDES AND ONE END

POLES

3 - 6" DIA. TOP PRESSURE-TREATED WOOD OR
3 - 6" NOMINAL DIA. STEEL PIPE POLES - 22'-0" LONG
CONCRETE - 1 CU. YD. REQUIRED TO SET POLES.
REINFORCING MESH AND UPLIFT KEYS NOT REQUIRED.

TREATED PLANKS

40 - 2 x 6 x 12'-0" OR	
20 - 2 x 12 x 12'-0"	(480 BD. FT.)

WALL GIRTS

50 - 2 x 6 x 12'-0"	(720 BD. FT.)
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SIDING

SIDE WALLS

96 SHEETS 16'-0" CORRUGATED METAL SIDING (3,072 SQ. FT. - 31 SQUARES)

END WALL

23 SHEETS 17'-0" CORRUGATED METAL SIDING (782 SQ. FT. - 8 SQUARES)

CORNER FLASHING - 40 LIN. FT.

NAILS - 200 LBS. LEAD-HEAD, SCREW-SHANK, GALVANIZED ROOFING NAILS

WOOD POLES ONLY

SPLICE AND GIRT FASTENING

	BUY	CUT
	11 - 2 x 4 x 12'-0"	51 - 2 x 4 x 2'-0"
	(88 BD. FT.)	18 - 2 x 4 x 1'-6"
NAILS - 4 LB. 12d RING-SHANK HARDENED		
2 LB. 16d RING-SHANK HARDENED		

TREATED PLANK FASTENING

NAILS - 3 LB. 16d RING-SHANK HARDENED

STEEL POLES ONLY

SPLICE AND GIRT FASTENING

	BUY	CUT
	2" x 2" x 169 LIN. FT.	51 - 2" x 2" x 2'-0"
	ANGLE IRON	18 - 2" x 2" x 1'-6"
		120 - 2" x 2" x 4"
BOLTS - 360 - 1/4" DIA. x 2" CARRIAGE BOLTS		

TREATED PLANK FASTENING - PLATES WELDED TO POLES

	BUY	CUT
	310 SQ. FT. OF	17 - 1/4" x 10" x 2'-0"
	1/4" STEEL PLATES	6 - 1/4" x 10" x 1'-6"
BOLTS - 52 - 3/8" DIA. x 2 1/2" MACHINE BOLTS WITH LARGE WASHERS		



BARN FOR AUTOMATIC BALE WAGONS

OKLA. '77	6279	SHEET 3 OF 3
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Disclaimer

This site makes available conceptual plans that can be helpful in developing building layouts and selecting equipment for various agricultural applications. These plans do not necessarily represent the most current technology or construction codes. They are not construction plans and do not replace the need for competent design assistance in developing safe, legal and well-functioning agricultural building system. The LSU Agriculture Center, the Mid-West Plan Service, the United States Department of Agriculture and none of the cooperating land-grant universities warranty these plans.