

ELECTRICAL

--O-- LIGHTING OUTLET

= DUPLEX CONVENIENCE OUTLET GROUNDED SPECIAL PURPOSE OUTLETS

EG -EGG GRADER

EW-EGG WASHER

ERC-EGG ROOM COOLER

FA - FEED BIN AUGER

VF - VENTILATION FAN

- S SPST SWITCH
- Sp SPST SWITCH W/PILOT LIGHT
- ST SPDT TIME SWITCH (230 VOLTS)
- T, LOW VOLUME THERMOSTAT
- T2 MEDIUM VOLUME THERMOSTAT T3 HIGH VOLUME THERMOSTAT
- DISTRIBUTION PANEL (FUSE OR CIRCUIT BREAKER) 2222 D.P.D.T. SERVICE ENTRANCE SWITCH FOR USE WITH STAND-BY GENERATOR

NOTES:

- I. ALL PERMANENT WIRING SHOULD COMPLY WITH THE NATIONAL ELECTRIC CODE AND ANY OTHER LOCAL CODES IN AUTHORITY.
- 2. NON-METALLIC WIRING, SWITCHES, LAMPHOLDERS AND RECEP-TACLES ARE RECOMMENDED. (SEE NEC ART. 336-3)
- 3. JHP OR LARGER MOTORS SHOULD BE CONNECTED TO 230 VOLTS.
- 4. LIGHTING CIRCUITS SHOULD BE EQUALLY DIVIDED ON 115 VOLT SIDES OF THE SERVICE TO BALANCE LOAD ON SYSTEM. AMPERE LOAD ON ANY CIRCUIT SHOULD NOT EXCEED 80% OF RATING.
- 5. INCANDESCENT LAMPS, RATED AT 110 TO 120 VOLTS AND 25 WATTS ON 10'-0" CENTERS, ARE RECOMMENDED FOR USE WITH LIGHT COLOR-CEILINGS OR WITH SHALLOWDOM REFLECTORS. LAMPS SHOULD NOT BE MORE THAN 6'-O" ABOVE THE LOWEST FEEDER OR PROVIDE AT LEAST ONE FOOT CANDLE MINIMUM INTENSITY FOR BIRDS IN LOW-EST CAGES.
- 6. CONSULT WITH EQUIPMENT MANUFACTURER FOR DETAILS AND DIMENSIONS OF CAGES AND OTHER EQUIPMENT.

- THE DESIGN IS EXPANDABLE IN 8'-0" SECTIONS OF LENGTH AND IS 38'-0" WIDE.
- 2. THE WINDOWLESS, CLEAR SPAN BUILDING USES TRUSSES 4'-0" O.C. WITH CAGES HANGING FROM BOTTOM CHORD OF TRUSSES.
- 3. THREE INCHES OF INSULATION IS USED IN THE CEILING AND TWO INCHES IN WALLS
- 4 THE EGG COOLING ROOM USES TWO INCHES OF RIGID FOAM INSULATION.
- 5. THE DESIGN IS FOR EITHER FRAME OR POST CONSTRUCTION, WITH METAL ROOF AND SIDING.
- 6 THE VENTILATION SYSTEM USES EXHAUST FANS AND ADJUSTABLE SLOT INLETS,

7. THE MANURE IS REMOVED FREQUENTLY BY SCRAPER AND DEPOSITED IN A LOADER OR STORAGE AREA.

BASED ON: W.VA. UNIV. PLAN PO-123

COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS

STATE OF MISSISSIPPI

MISSISSIPPI STATE UNIVERSITY

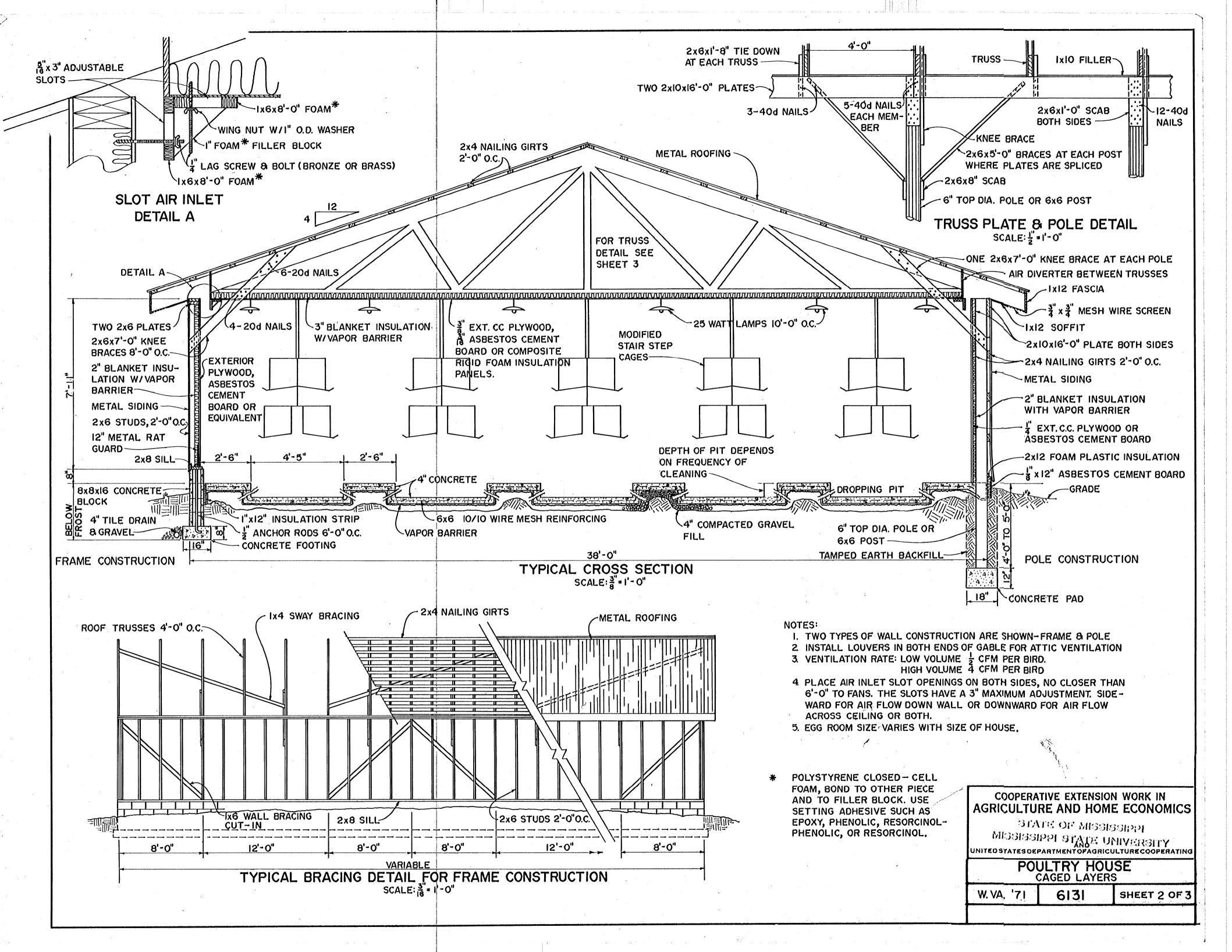
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UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

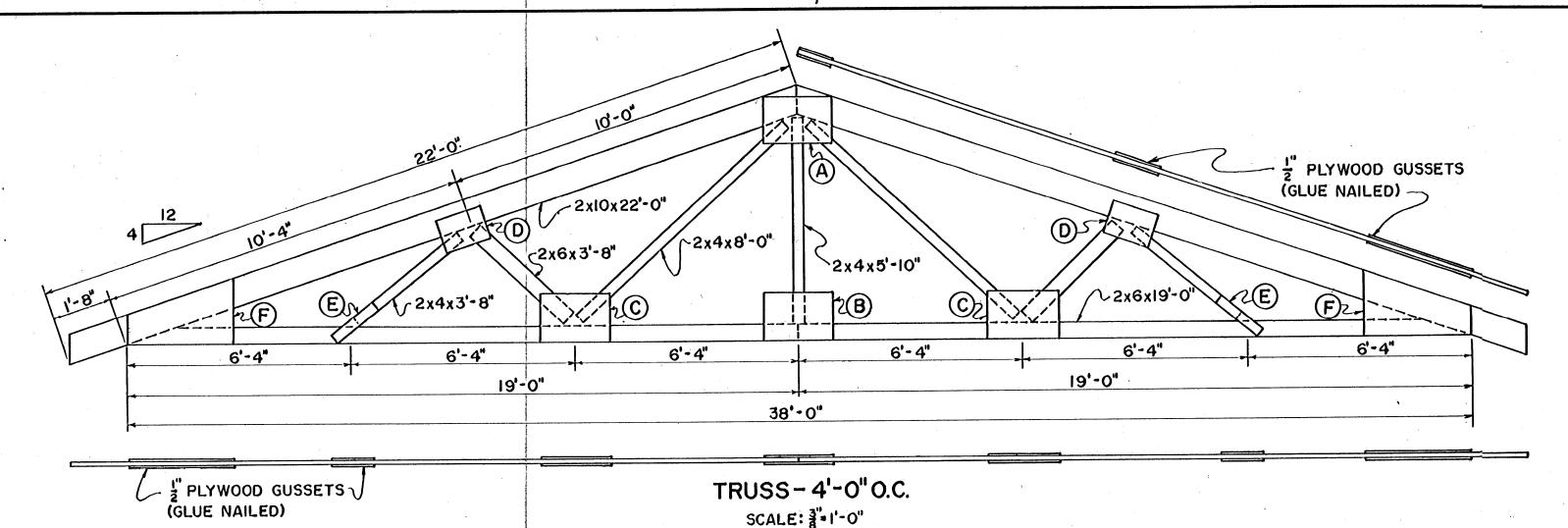
POULTRY HOUSE CAGED LAYERS

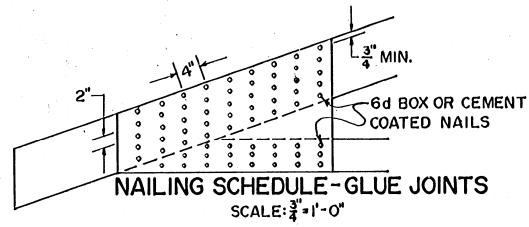
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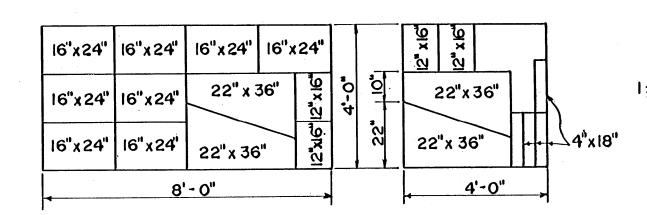






GUSSET PLATES

- I. EACH JOINT REQUIRES TWO GUSSETS, ONE ON EACH SIDE.
- 2. ALL GUSSET PLATES ARE $\frac{1}{2}$ C-C EXTERIOR PLYWOOD, SANDED TO SMOOTH AND EVEN FINISH FOR THE GLUED TRUSS.
- 3. MEMBERS MUST BE SURFACED AND CLEAN.
- 4. MOISTURE CONTENT SHOULD NOT EXCEED 15%.
- 5. USE RESORCINOL RESIN GLUE AND 6d BOX NAILS.
- 6. MIX GLUE ACCORDING TO MFR. SPECIFICATIONS AND APPLY TO BOTH SURFACES TO BE JOINED. FASTEN GUSSET PLATES IN PLACE WITH NAILS AS SHOWN ABOVE. ENOUGH GLUE SHOULD BE APPLIED SO IT OOZES OUT FROM JOINT WHEN NAILED.
- 7. GLUED TRUSS MAY BE MOVED CAREFULLY FROM THE JIG IMMEDIATELY AFTER GUSSET PLATES HAVE BEEN APPLIED.
- 8. TRUSSES MUST BE STACKED IN HORIZONTAL POSITION FOR AT LEAST 24 HOURS AFTER ASSEMBLY.
- 9. FABRICATE AT TEMPERATURE OF 70° OR SLIGHTLY HIGHER. KEEP MIXED GLUE BELOW 85°F.



CUTTING DIAGRAM FOR GUSSETS

SCALE: 3 1'-0"

DESIGN LOADS

COMBINED ROOF LOAD: 35 PSF-HP
CEILING LOAD: 10 PSF CEILING AREA
CONCENTRATED LOAD: 300 LBS. AT EACH JOINT
ALONG LOWER CHORD

BASIC LUMBER STRESS

f = 1500 PSI BENDING & DIRECT TENSION. c = 1200 PSI COMPRESSION PARALLEL TO GRAIN. E = 1,760,000 PSI MODULUS OF ELASTICITY.

LUMBER

NO.1 SOUTHERN PINE OR DOUGLAS FIR

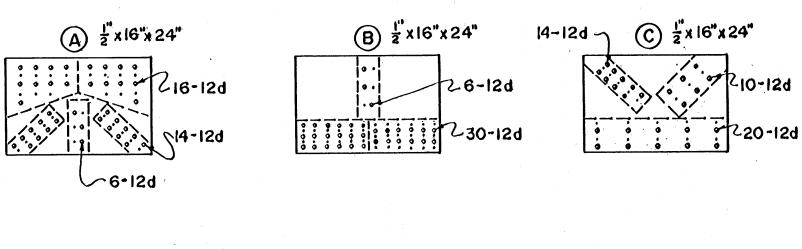
FABRICATION

DIRECTION OF FACE GRAIN OF GUSSETS B AND F
MUST BE PARALLEL TO LOWER CHORD.
CUT ALL MEMBERS FOR ONE TRUSS AND ASSEMBLE.
USE THIS TRUSS AS A PATTERN, BUILD A JIG TO
ASSEMBLE THE REMAINING TRUSSES.
ALL TRUSS MEMBERS ARE IN THE SAME PLANE

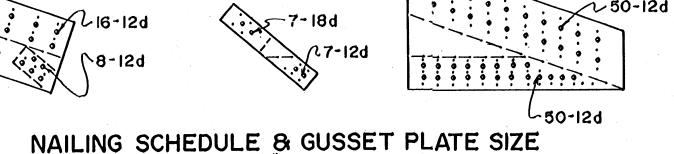
BILL OF MATERIALS FOR ONE TRUSS LUMBER AND PLYWOOD

	FBM
2 - 2x10x22'-0"	74
2-2x6x20'-0"	40
1-2x6 x8'-0"	8
2 - 2x4 x12'-0"	16
1-2x4x6'-0"	4
TOTAL FBM	142

 $1\frac{1}{2}$ -4'-0" x 8'-0" SHEETS OF $\frac{1}{2}$ "
EXTERIOR C.C. PLYWOOD



½"x4"x8"



SCALE: 3" = 1'-0"

I. NAILS HELICALLY THREADED 12d. 2. USE NAIL SCHEDULE AS SHOWN ABOVE.

 $\frac{1}{2}$ x12"x16"

10-12d

- 3. NAILS SHOWN BY CIRCLES (*) ARE DRIVEN FROM NEAR SIDE; REMAINING NAILS SHOWN BY DOTS (*) ARE DRIVEN FROM FAR SIDE.
- 4. ALL NAILS MUST BE CLINCHED.
- 5. NAIL SIZE, TYPE, SPACING AND NUMBER ARE CRITICAL. USE A TEMPLATE TO ASSURE PROPER SPACING AND NUMBER OF NAILS AT EACH JOINT.
- 6. MINIMUM SPACING OF NAILS ALL JOINTS $2\frac{1}{4}$ PARALLEL TO GRAIN $\frac{3}{4}$ ACROSS GRAIN AND AT EDGES.
- 7. SPACE NAILS FARTHER APART WHERE POSSIBLE.

COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS BY ATE OF MISSISSIPPI MISSISSIPPI STATE UNIVERSITY UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING POULTRY HOUSE

<u>|</u>"x22"x36"

POULTRY HOUSE
CAGED LAYERS
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