Modern Poultry Housing Plans for the South Dakota 500 Hen Laying House

Agricultural Extension Service
South Dakota State College

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Modern Poultry Housing Plans
for the South Dakota 500 Hen Laying House
NOTE.- ORIENT BUILDING SO THAT IT RUNS NORTH AND SOUTH.

FLOOR PLAN
SCALE 3/8"=1'

500 HEN LAYING HOUSE
EXTENSION SERVICE
SOUTH DAKOTA STATE COLLEGE
U.S. DEPARTMENT OF AGRICULTURE
CO-OPERATING

DESIGNED BY NOEL
DRAWN BY NOEL
CHECKED BY J. H. B.
APPROVED BY J. W. H.
DATE JUNE 1954
SCALE AS SHOWN
DIRECTOR OF EXTENSION
Feed, Water and Wiring Arrangement

24' x 34' Laying House

- Oyster Shell
- Roosts
- Hanging Feeders
- Waterer
- Nesting Room
- Grit
- 8' Feeders
- Fans
- Bins
2X10 PURLIN
2X4 JOIST 2'-0" O.C.
2X4 STUDS 2' O.C.
6'-0" LONG
2X4 LET-IN BRACE

VENTILATING FANS ON SIDE OF BUILDING

SIDE ELEVATION
SCALE 3/8"=1'

OMIT POST, PURLIN, & GIRDER IF TRUSSES ARE USED

LOUVRE, 14"x24" OR EQUIVALENT AREA, IN EACH END

FRONT ELEVATION
SCALE 3/8"=1'

2X4 STUDS 2' O.C.

DOUBLE STUD SUPPORTS END OF GIRDER

3'-0"x6'-2" DOOR

GROUND LINE

6" DROP SIDING

BIN FILLING DOORS

Scoop Door Detail
SCALE 1/2"=1'

Scoop assembly is loose for easy removal

Floor of bin is 15" above pen floor

500 Hen Laying House
Extension Service
South Dakota State College
U.S. Department of Agriculture
Co-Operating

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NO. 314
DRAWN BY
CHECKED BY
DATE JUNE 1954
APPROVED BY
DIRECTOR OF EXTENSION

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ROOF TRUSS
SCALE 1/2"=1'

TOP VIEW OF BOTTOM CHORD

TOP VIEW OF TOP CHORD

1X6 COLLAR TIE
2X6, 16' LONG

2X4, 6'-6" LONG
1X4 SPlice PLATE 15' LONG
2X4, 4'-6" LONG

2X4, 16' LONG
1X4 SPlice PLATES 3' LONG

1/2" BOLTS OR 8D NAILS AS SHOWN
AND WATER-RESISTANT GLUE
AT EACH JOINT

DOOR - OPEN
FOR SUMMER

4'-0" X 7'-0" DOOR (2 REQ'D)

7'-0" X 8'-0" REMOVABLE
INSULATING BOARD PANEL

REAR ELEVATION
SCALE 3/8"=1'

DETAIL OF FAN SYSTEM
SCALE 3/4"=1'

FAN, CAPACITY
1400-1600 CFM
AT 1/8" S.P.

FAN, CAPACITY
400-500 CFM
AT 1/8" STATIC PRESSURE,
RUNS CONTINUOUSLY

NOTE: FAN CAPACITIES
SHOWN ARE FOR
500 BIRDS

500 HEN LAYING HOUSE
EXTENSION SERVICE
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SHEET 4 OF 5
DATE JUNE 1954
SCALE AS SHOWN
SCREEN PANEL
FOR LARGE DOORWAY IN SUMMER

INSULATING PANEL
FOR DOORWAY IN WINTER

CEILING

LEAVE OPEN

LEAVE OPEN

ROOST DETAIL

500 HEN LAYING HOUSE
EXTENSION SERVICE
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DATE JUNE 1954
DO NOT SCALE