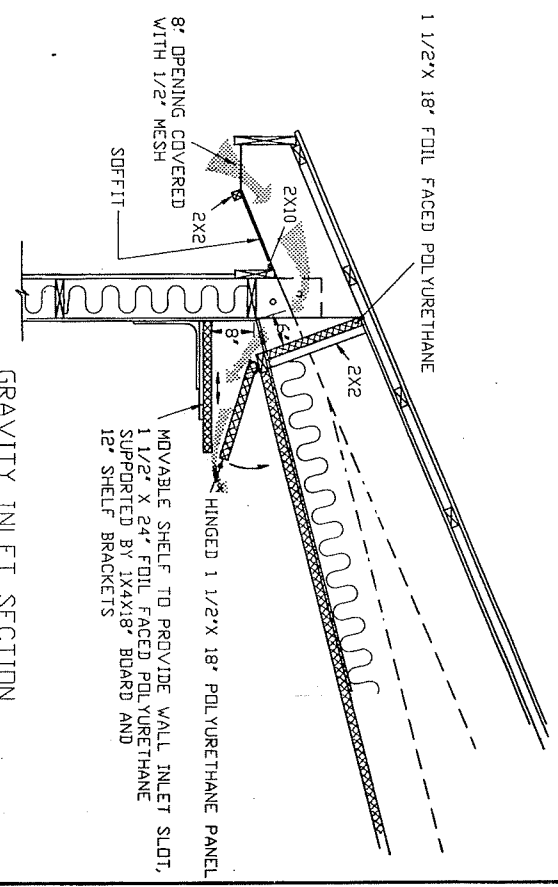


TYPICAL WALL SECTION WITH CURTAIN OPTION

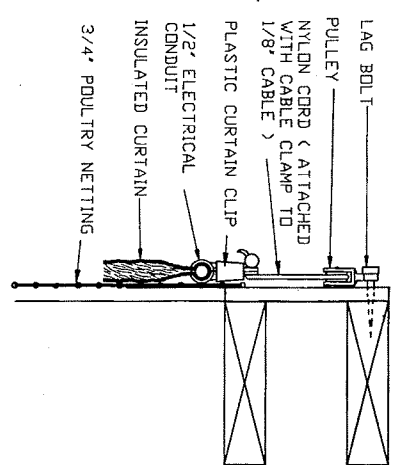
SCALE 3/4" = 1'-0"

INLET NOTES:
 Provide continuous slot along both side walls, break 6 ft. each side of fan doors. Minimum full opening of 3.5 in. (hood end) or 6.0 in. (gown out end).
 Boxed inlets 8 in. X 46 in. placed 24 ft. o.c. Use pressure setting of 0.10 in. water column all year.
Controls:
 1) Gravity inlets require no controls.
 2) Continuous hinged inlet automatically controlled to maintain negative inside house pressure of 0.10 in. water column (winter) or 0.05 in. (summer).



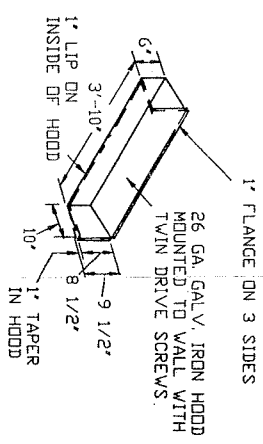
GRAVITY INLET SECTION

SCALE 3/4" = 1'-0"



INSULATED CURTAIN DETAIL

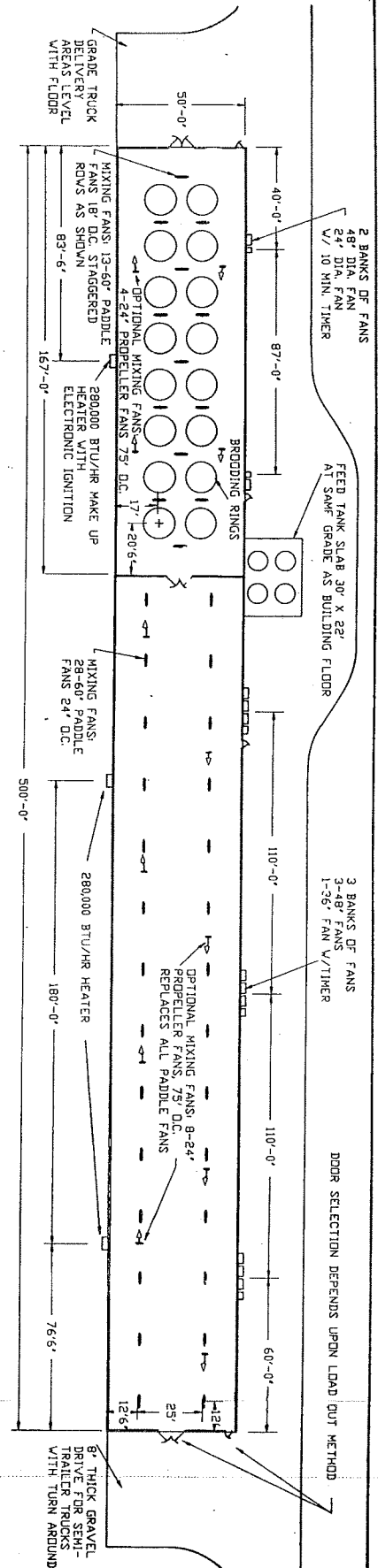
NOT TO SCALE



AIR INLET HOOD DETAIL

NOT TO SCALE

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TURKEY BROODING AND GROW OUT FACILITY	6413	NY 88	SHEET 1 OF 3



BROODING SECTION

PLAN VIEW

ROW OUT SECTION

SCALE 1" = 30'

VENTILATION AND HEATING CONTROL GUIDELINES

Moisture Control/Ventilation: Moisture ventilation requirements will require 0.05 to 0.20 cfm per lb dry weight, depending upon inside to outside absolute humidity differences. Use variable speed controllers to operate mixing fans in both brooding and grow out sections. Use a minimum of 3 speed selections. Adjust speeds to promote comfort, but avoid chilling of young poults. When mixing fans in each building section into 2 separate sections, use a single control.

Temperature Control: Exhaust fans and heaters should be controlled by mechanical switches activated by thermostat. Provide one thermostat for each side wall curtain. Set thermostat on inward wall curtain at DRT and at Heater. Control each heating unit by a separate thermostat. Set thermostat at DRT - 2°F (Heater 4°F Grow out section).

Micro-processor Controls: For tighter control of temperature spread between stages, commercial micro-processor controllers can be used, which maintain typical temperature ranges between heating and cooling of 3 to 4°F.

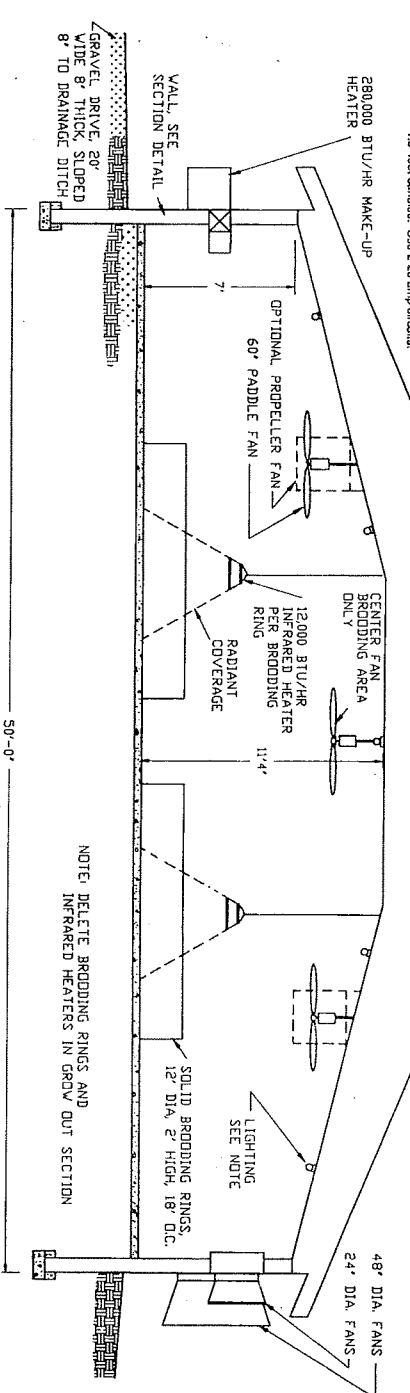
See sheet #2 for management and housing guidelines.

LIGHTING NOTES:

Brooding: 5 rows equally spaced, 8' o.c., 13 watt, 800 lumens per bulb (14.5 watt draw)

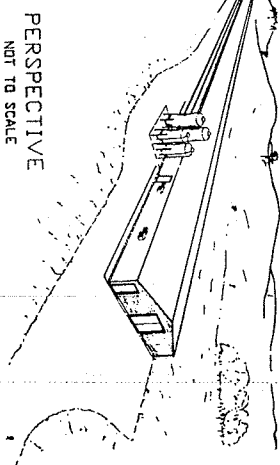
Grow out: 3 rows equally spaced, 8' o.c., 13 watt, 800 lumens per bulb (14.5 watt draw) screw in fluorescent bulbs that provide 1.5 foot candles. Use 2-20 amp circuits.

TRUSS, SEE SHEET 3



TYPICAL CROSS SECTION

SCALE 1/4" = 1'-0"



GENERAL RECOMMENDATIONS:

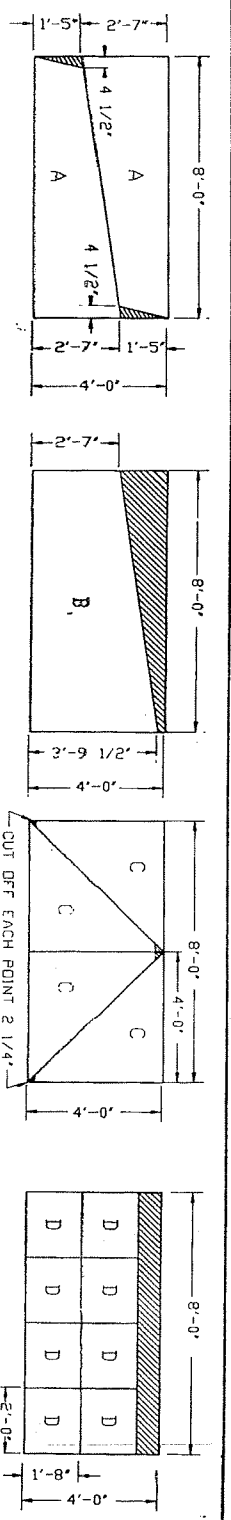
1. Determine if water supply is pure and sufficient.
2. Check with electric utility about easements and service.
3. Check with local governments about zoning and building restrictions or required permits.
4. Check dimensions of manufactured equipment to be installed before starting construction.
5. All unions in contact with concrete or soil should be pressure washed before pouring.
6. All electrical fixtures should be moisture resistant industrial grade and U.L. approved.
7. All doors to be well fitted inside frames with positive stops and assembly air-tight. All wall and ceiling construction to be air-tight.

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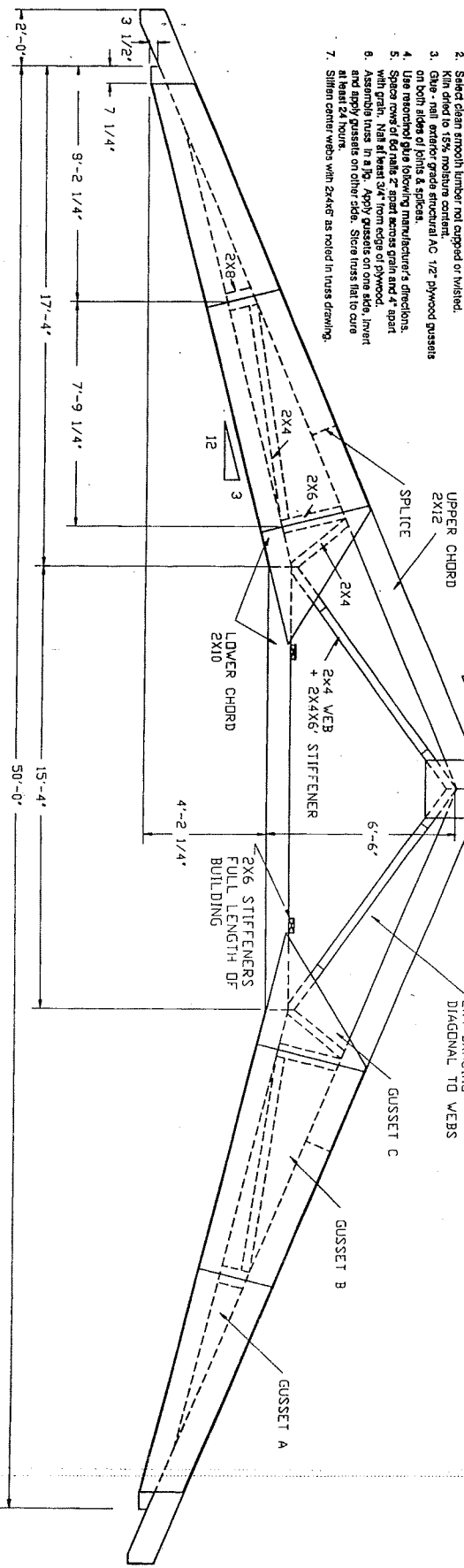
UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

TURKEY BROODING AND GROW OUT FACILITY

NY 88 6413 SHEET 2 OF 3



- TRUSS NOTES:
1. Design loads: (Truss spacing 4' o.c.)
vertical: 160 psf (60 psf x 4')
combined: 80 psf (to peak) lateral
+ 75 psf vertical
Allowable fiber stress: 1450 psi
Allowable shear: 90 psi
 2. Select clean smooth lumber not cupped or twisted.
Kiln dried to 15% moisture content.
 3. Gable - nail exterior grade structural AC 1/2" plywood gussets on both sides of joints & splices.
 4. Use manufacturer glue following manufacturer's directions.
 5. Space rows of 60 nails 2" apart across grain and 4" apart with grain. Nail at least 3/4" from edge of plywood.
 6. Split truss in 1/2". Apply gussets on one side, invert and apply gussets on other side. Slice truss flat to cure at least 24 hours.
 7. Stiffen center webs with 2x4x6" as noted in truss drawing.



MANAGEMENT AND HOUSING GUIDELINES

DENSITY:	1-10 DAYS	TO 8 WEEKS
HEATING:	BROOD TEMP. SCHEDULE	68° F OR AMBIENT TEMPERATURE
WATERERS:	WATERERS:	ADD 8 GALLON DRINKERS IN EACH BROODING RING.
FEEDERS:	FEEDERS:	14 TURKEY TYPE PANS PER 1,000 BIRDS. 10 TO 12 POLY FEEDERS PER RING (25 TO 30 PER 1,000 PDLTS) FOR FIRST 10 DAYS.
SAFETY:	SAFETY:	PROVIDE STANDBY POWER GENERATOR (20 TO 30 KW UNIT) AND AUTOMATIC SWITCHING AND AUTOMATIC-DIAL ALARMS.

COOPERATIVE EXTENSION SERVICE
STATE OF NEW YORK
SUNY STATE UNIVERSITY
SCHOOL OF AGRICULTURE AND APPLIED SCIENCE
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TURKEY BROODING AND GROW OUT FACILITY

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NY 88 6413 SHEET 3 OF 3

WIND BRACING DETAIL
NOT TO SCALE

