

**SPECIFICATIONS**

Unless otherwise specified, all cast-in-place concrete is to be at least 3000 psi @ 28 days, 6% air entrained.

All reinforcing steel to be at least 40,000 psi deformed bars; provide 2" concrete cover over reinforcing steel.

All exposed steel to be galvanized or painted to resist corrosion from moisture and manure gases.

All framing lumber is No. 2 (or better), S-P-F species group, unless otherwise specified.

All wood indicated 'pressure-treated' is CCA pressure-treated to a net retention of 0.4 lb/ft<sup>3</sup> (ground contact specification, CSA-080 Wood Preservation).

All nails exposed to treated wood, humid atmosphere or weather to be hot-dip galvanized.

This plan is designed to meet the requirements of the Canadian Farm Building Code.

Notes thus marked indicate where this plan gives structural choices to be selected to meet local climatic loads (wind, snow), soil bearing capacity and other local conditions. The plan user must ensure that these requirements are met. Consult an engineer if you are not familiar with the details required.

**ONE SET OF DRAWINGS AND LEAFLETS SHOULD INCLUDE:**

CPS no.	sheet no.	Title
4311	-1-	Lambing unit
4311	-2-	Plan
4311	-3-	Cross sections
4311	-4-	Wall details
4311	-5-	Details
4311	-6-	Electrical & ventilation
4311	-7-	Truss design and spacing to suit local snow + dead load

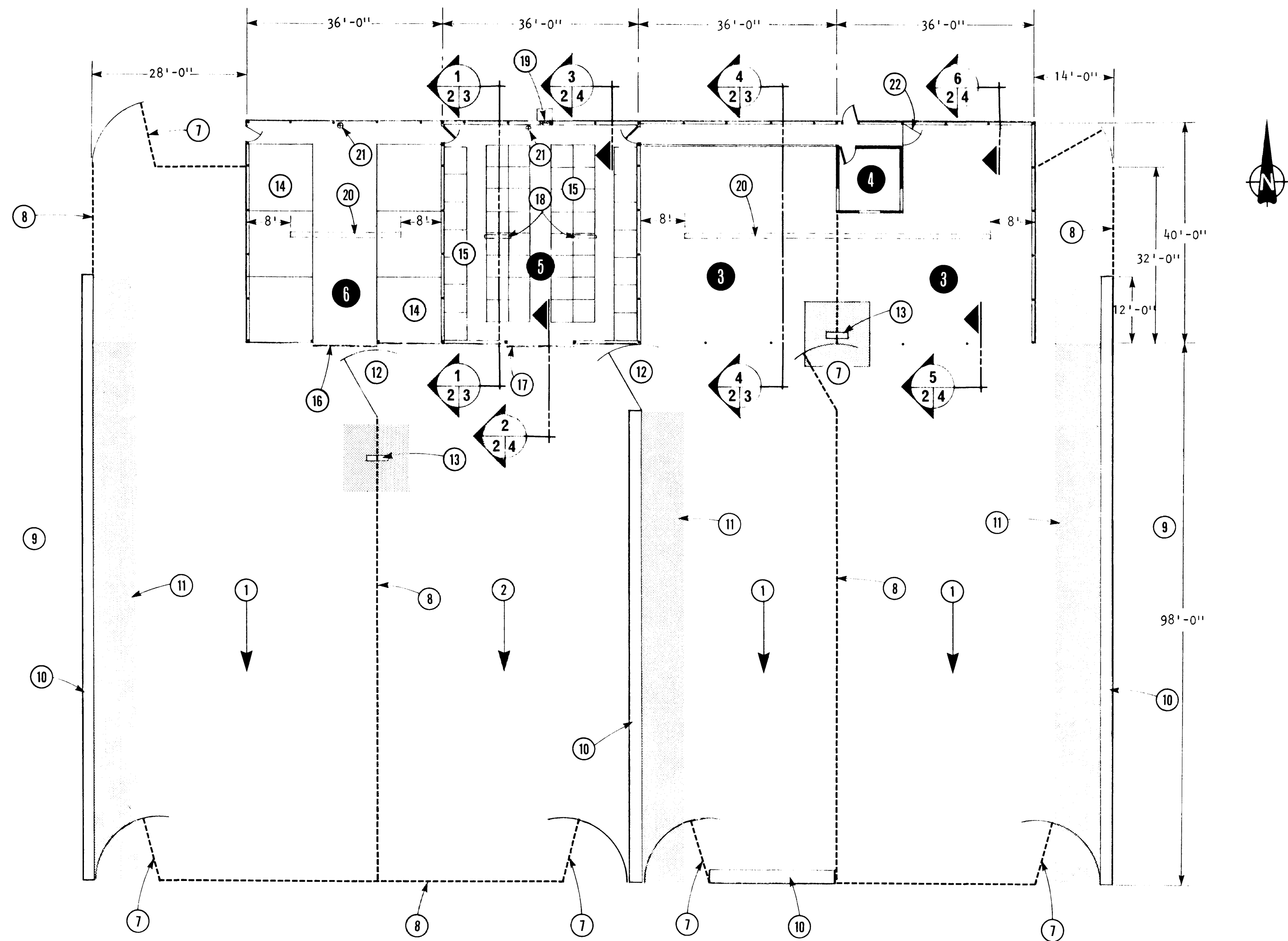
**AND LEAFLETS**

4311	Lambing unit
4616	Sheep fence/line feeder, steel posts
4617	Sheep fence/line feeder, wood posts
4813	Sheep corral fencing and gates
4831	Portable claiming pen
8363	Farm fences
9102	Truss erecting and bracing
9301	Roof purlins

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	LAMBING UNIT
	PLAN

DESIGNED <i>E. HARDEA</i>	DATE NOV/75	PLAN <b>4311</b>									
DRAWN <i>J.E.T.</i>	REVISED 88-11										
TRACED	<table border="1"> <tr> <td>A</td> <td>DETAIL NUMBER</td> <td>A</td> </tr> <tr> <td>B/C</td> <td>ORIGINATES ON SHEET</td> <td>B</td> </tr> <tr> <td></td> <td>DRAWN ON SHEET</td> <td>C</td> </tr> </table>	A	DETAIL NUMBER	A	B/C	ORIGINATES ON SHEET	B		DRAWN ON SHEET	C	SHEET 1 OF 6
A	DETAIL NUMBER	A									
B/C	ORIGINATES ON SHEET	B									
	DRAWN ON SHEET	C									
CHECKED <i>J.E.T.</i>											



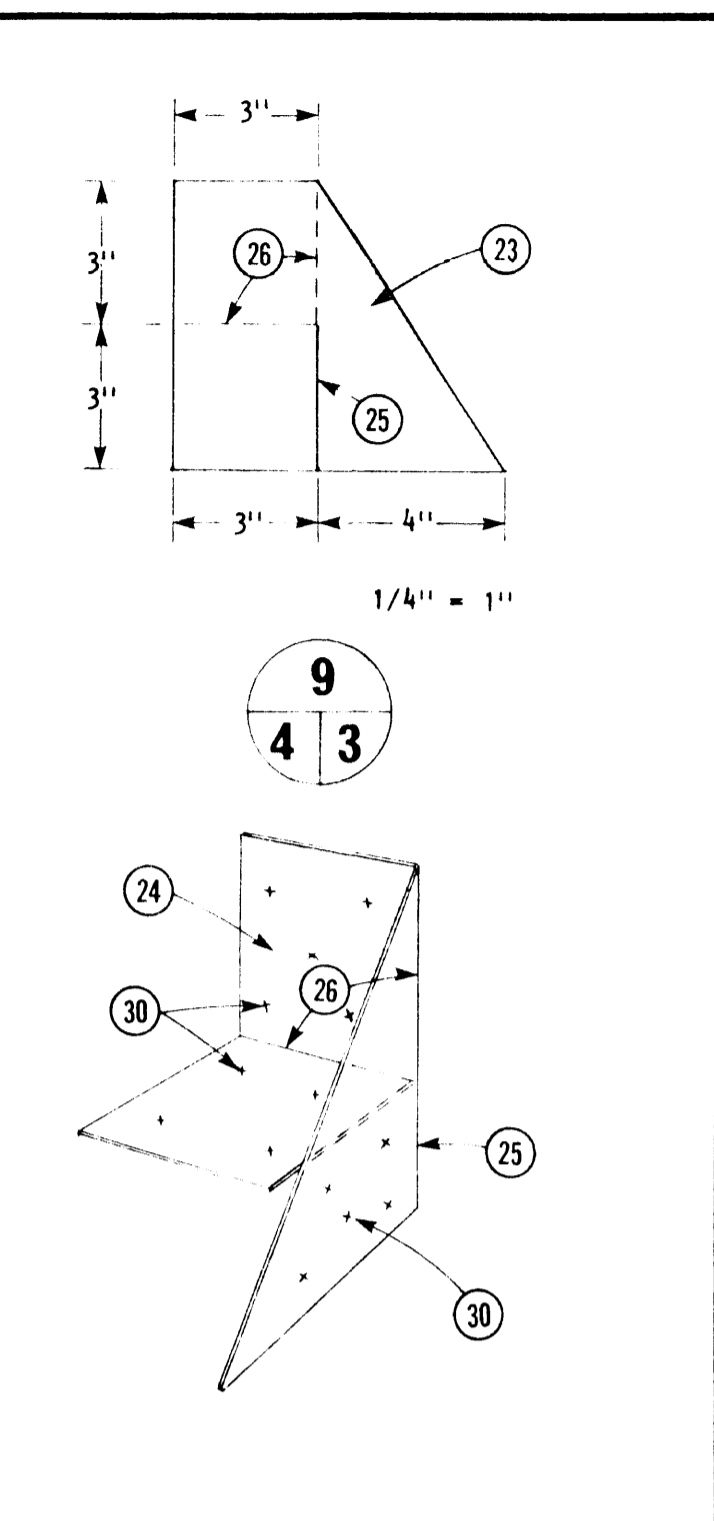
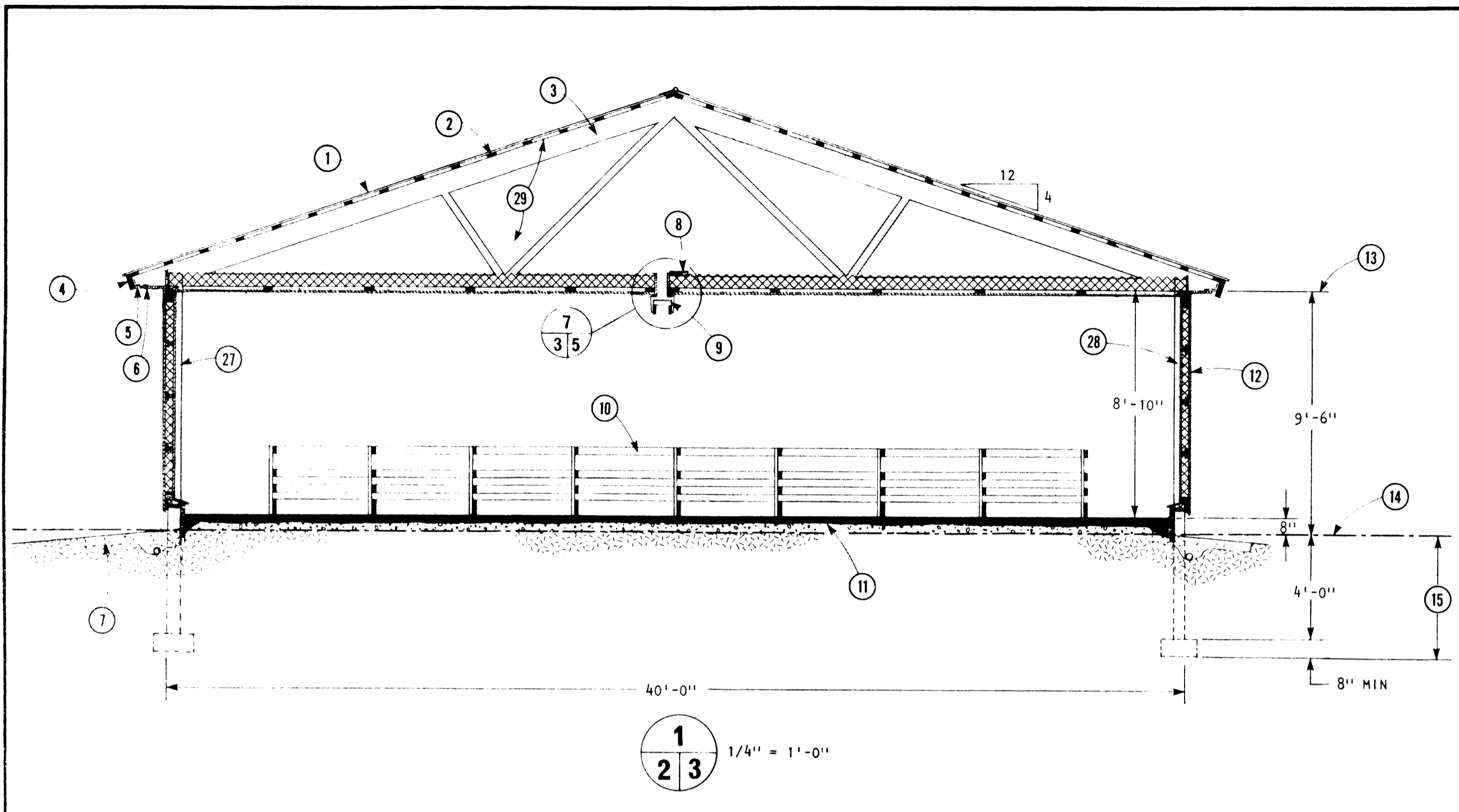
1. earth feedlot, slope to south at 2% minimum to 8% maximum
2. spare lot, slope to south
3. lambing pen
4. insulated observation room 12' x 12' approx. windows in 3 walls
5. claiming section (insulated)
6. hardening section
7. 12' gate to match 8' windbreak fence, plan 8363
8. 8' high, 20% porosity windbreak fence
9. feed alley
10. fenceline feeder (leaflets 4616, 4617)
11. concrete apron at least as wide as cleaning tractor (6' min.), slope 3/4" to 1" per foot away from fenceline feeder
12. 12' gate (leaflet 4813)
13. heated waterer
14. 12' x 12' hardening pens, removable partitions
15. claiming pens 4' x 4' or 4' x 5' (leaflet 4831)
16. 12' sliding door
17. 12' sliding door, insulated
18. adjustable baffled ceiling slot air inlet, 4' long, see 7/3/5
19. exhaust fan installation, see electrical and ventilation sheet 6
20. optional 3" open ridge vent, over
21. frost-proof water hydrant, location may vary
22. gate to close 3'-6" passage

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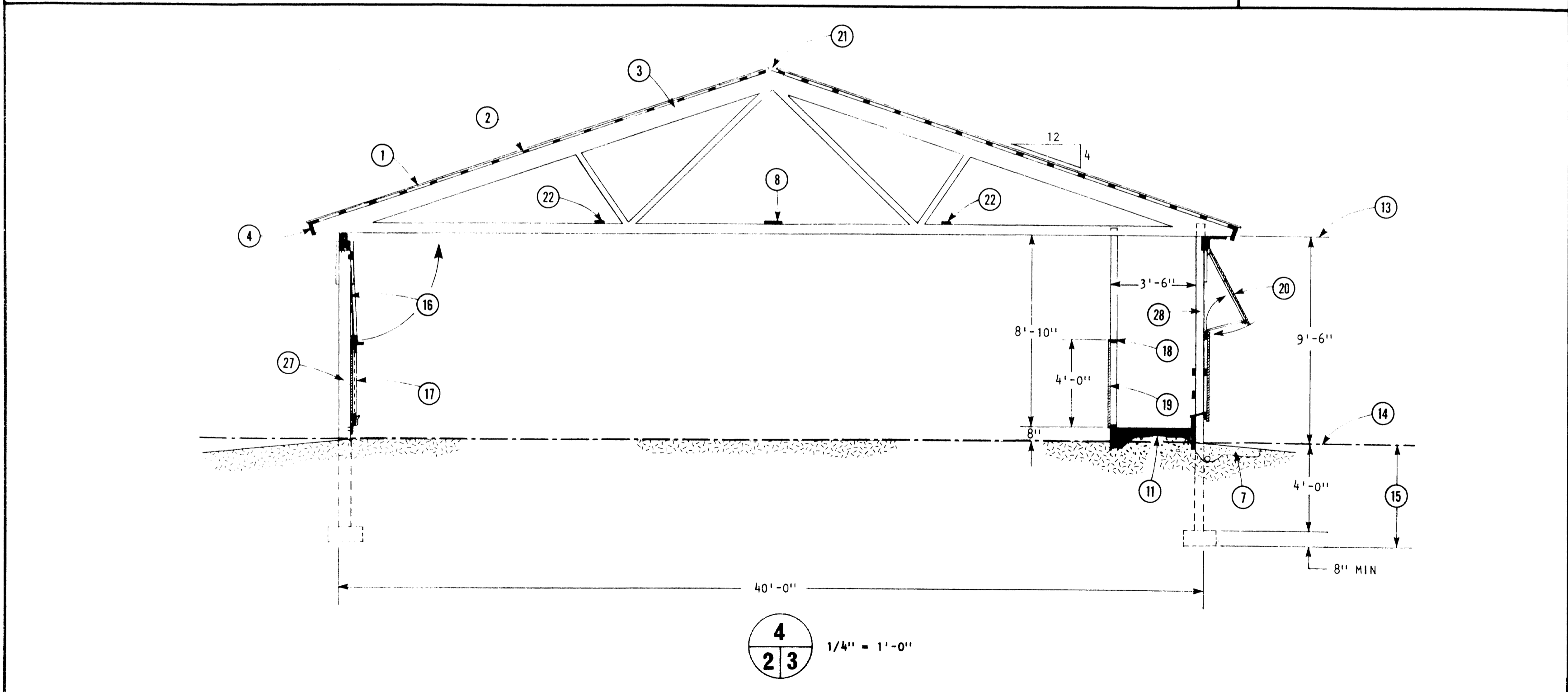
**CANADA**  
PLAN SERVICE

PLAN

DESIGNED <i>E. HARDER</i>	DATE NOV/75	PLAN
DRAWN <i>[Signature]</i>	REVISED	4311
TRACED	DETAIL NUMBER <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">A</span>	SHEET 2 OF 6
CHECKED <i>J. E. T.</i>	ORIGINATES ON SHEET <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">B</span> DRAWN ON SHEET <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</span>	



1. metal roofing over 1/2" wood fiberboard, or asphalt shingles on 3/8" plywood sheathing
2. 2" x 4" roof purlins not over 24" o.c., space to suit roofing material and local roof load (leaflet 8300)
3. 40' trusses @ 4' o.c., double vertical cross-bracing to (22) between end pairs of trusses, 4 locations
4. 2" x 8" face board
5. 2" vent slot, 1/2" x 1/2" galv. bird screen
6. 3/4" soffit
7. 3' wide x 4" deep coarse gravel splash pad with field tile or perforated drain tubing, to outlet
8. 2" x 8" walk plank
9. ceiling slot air inlet with adjustable baffle, see sheet 6 for adjustment
10. claiming pens (leaflet 4831)
11. levelled & compacted sand fill, 6-mil polyethylene moisture barrier, 4" concrete floor
12. insulated post frame wall, see (3) (2/4)
13. top of plate
14. datum line
15. footing to below frost, if soil susceptible to heaving
16. hinged reinforced polyethylene curtain, see (5) (2/4)
17. 12' x 4' removable winter panel, see (5) (2/4)
18. 2" x 4" horizontals between studs 8' o.c.
19. 3/8" plywood or aspenite, 2" x 4" verticals between (18) @ 2' o.c.
20. 3/8" x 8' x 4' exterior plywood doors (cont.) for summer ventilation
21. optional 3" open ridge vent, stops 8' from each end of lambing & hardening areas; soak exposed truss connections with wood preservative
22. 2" x 4" stiffeners, continuous
23. cutting layout of roof truss anchor, from 24 gage galv. steel sheet
24. truss anchor after bending
25. cut line
26. fold lines
27. pressure-treated Jack pine or Douglas fir poles 12' o.c., see (13), sht. 6 for size
28. pressure-treated Jack pine or Douglas fir poles 8' o.c., see (13), sht. 6 for size
29. plywood on trusses & blocking between purlins, at both sides of claiming area
30. centre-punch holes for 2 1/2" nails



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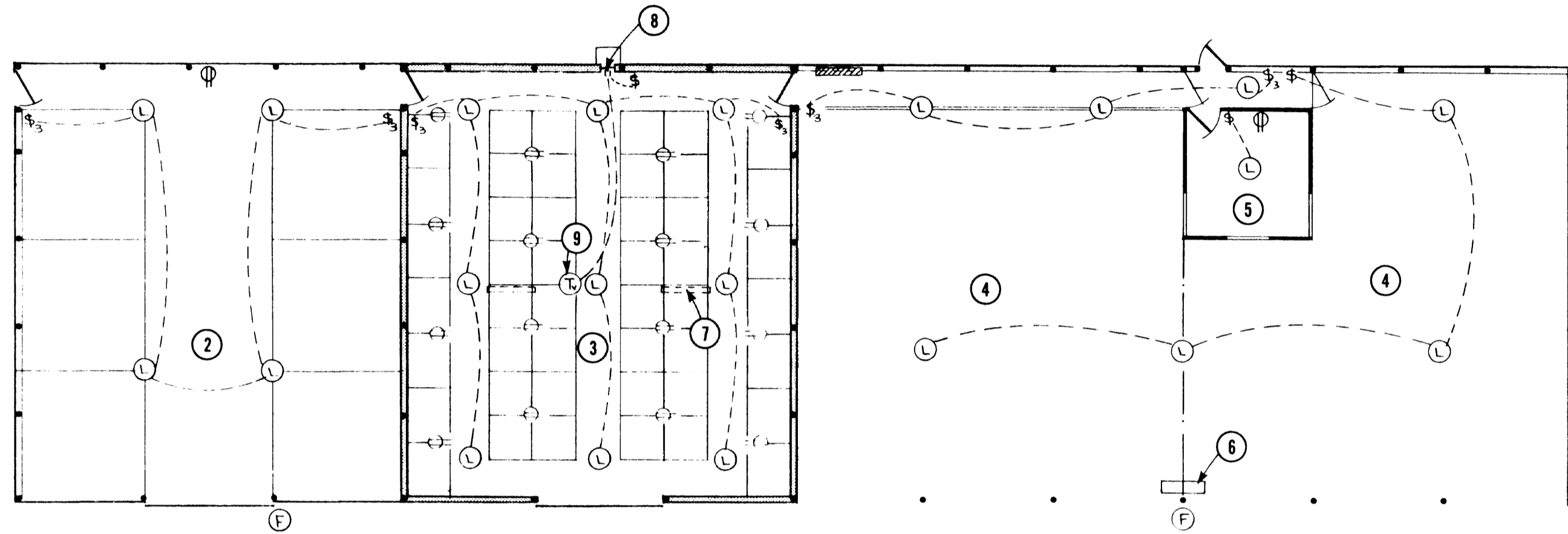
**CROSS SECTIONS**

DESIGNED HARDEK	DATE NOV/75	<b>PLAN 4311</b>
DRAWN [Signature]	REVISED 88-11	
TRACED	DETAIL NUMBER A	<b>SHEET 3 OF 6</b>
CHECKED J.E.T.	ORIGINATES ON SHEET B DRAWN ON SHEET C	









1. electrical plan
2. hardening section
3. claiming section (insulated)
4. lambing pen
5. insulated observation room
6. heated waterer
7. ceiling air inlet (see sheet 5), closed below +10°F, open 3/4" above +10°F
8. ventilation exhaust fan, 2-speed 800 cfm high, 500 cfm low, with manual speed switch; use low speed in cold weather or when room is partly filled
9. ventilation thermostat; hung 3' from ceiling; set to start fan @ 62°F
10. supplementary heating based on 80% max. R.H. with one 100-lb ewe and 1.5 lambs in each of 46 claiming pens; if room is too wet, connect more heat lamps
11. table of steel gusset sizes for plate beam (3), sht. 5
12. table of scab sizes for plate beam (4), sht. 5
13. pole selection chart

- LEGEND**
- ⊖ - duplex convenience outlet
  - \$ - single pole switch
  - \$₃ - three way switch
  - L - 100 watt incandescent lampholder
  - F - flood light
  - ⊖ - ventilation thermostat
  - ▨ - distribution panel

1

**10**

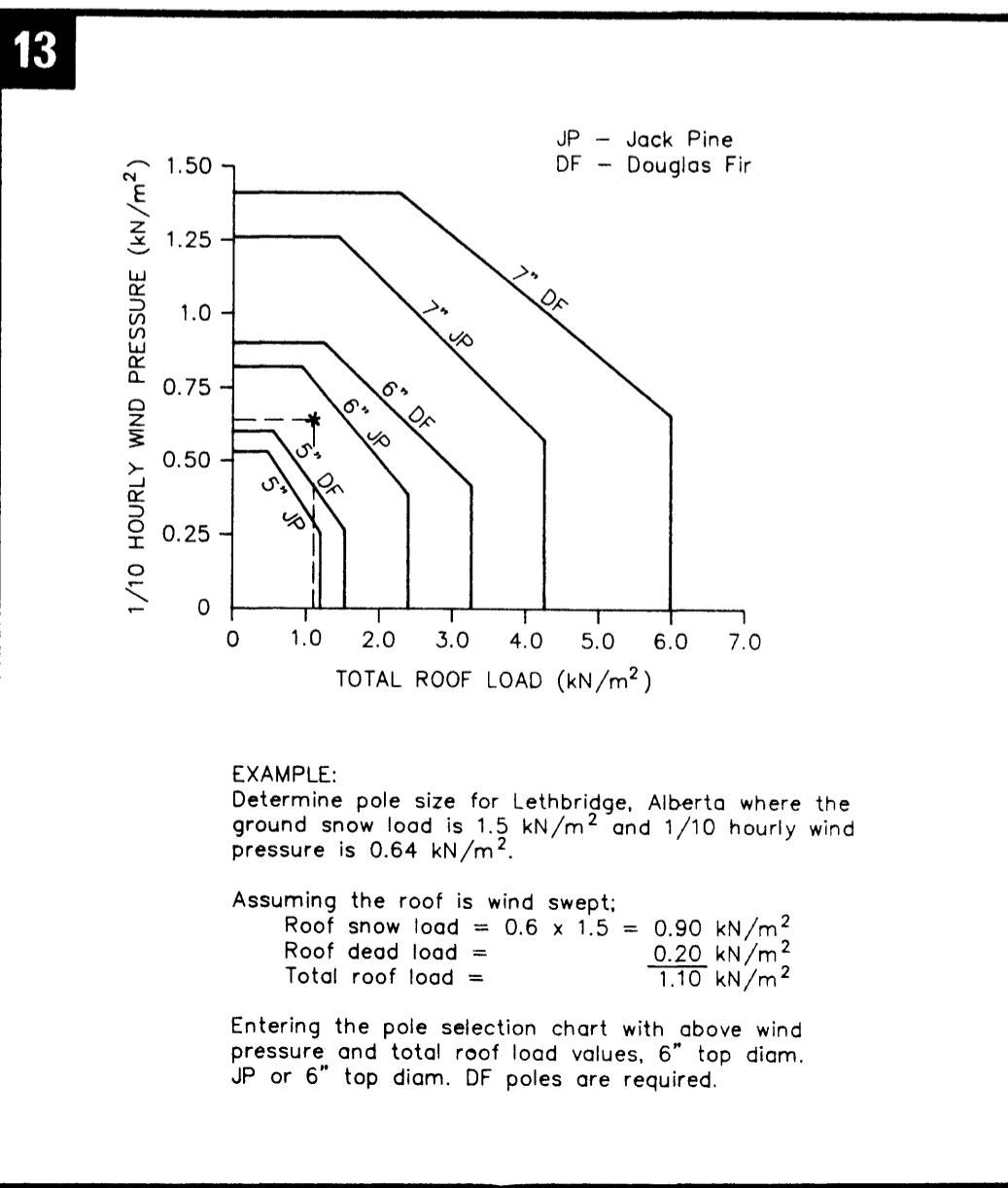
Outside Temp. (°F)	Heating Required		No. of 250-w Heat lamps
	(BTU/hr)	(Kw)	
+10°	8,900	2.5	10
0°	14,000	4.1	16
-10°	19,000	5.6	22
-20°	23,400	6.9	28
-30°	27,700	8.1	32

**11**

Beam size S-P-F	No. of 2 1/2" conc. or 4" spiral nails		Gusset size
2 x 8	6		8" x 7 1/4"
2 x 10	8		8" x 9 1/4"
2 x 12	10		8" x 11 1/4"
<b>D. Fir-L</b>			
2 x 8	6		8" x 7 1/4"
2 x 10	8		8" x 9 1/4"
2 x 12	10		8" x 11 1/4"

**12**

Beam size S-P-F	5" spiral nails in beam & scab	Scab size round poles
2 x 8	15	2 x 8 x 18"
2 x 10	23	2 x 10 x 28"
2 x 12	29	2 x 12 x 37"
<b>D. Fir-L</b>		
2 x 8	9	2 x 6 x 8"
2 x 10	13	2 x 6 x 12"
2 x 12	18	2 x 8 x 20"



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ELECTRICAL & VENTILATION

DESIGNED J.E.T.	DATE NOV/75	PLAN 4311
DRAWN [Signature]	REVISED 88-11	
TRACED	DETAIL NUMBER A	SHEET 6 OF 6
CHECKED J.E.T.	ORIGINATES ON SHEET B DRAWN ON SHEET C	