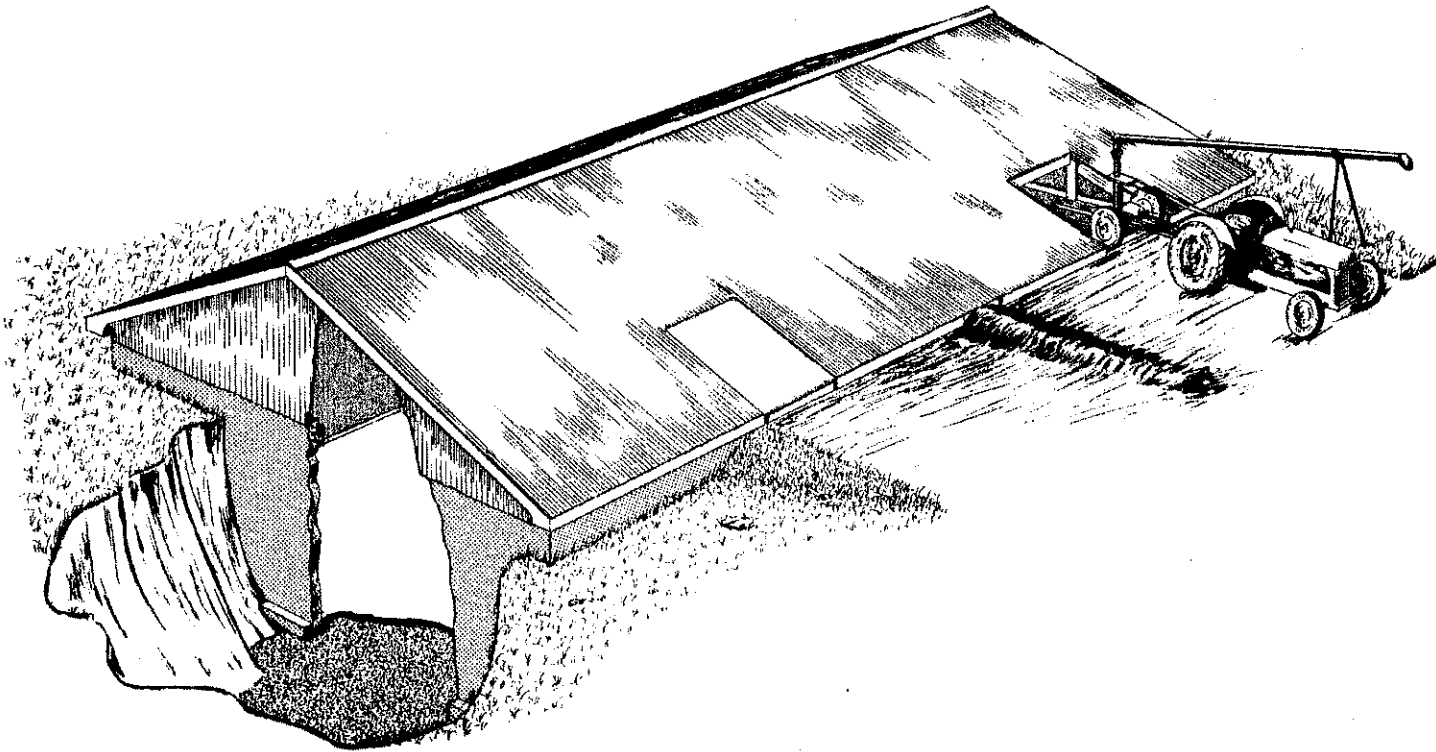


1 Include roof truss plan to suit local design load (sheet 4 of 4)

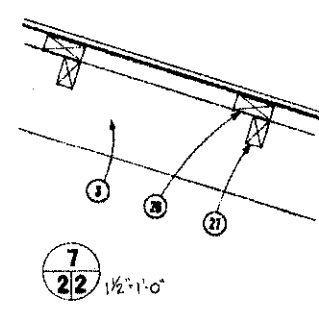
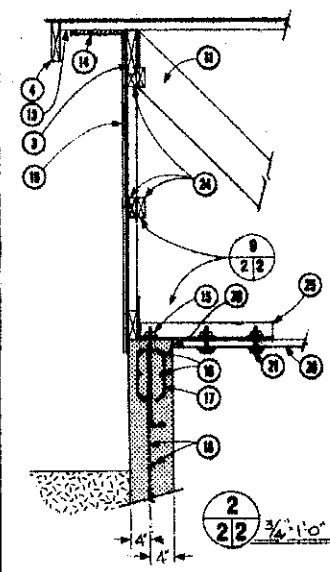
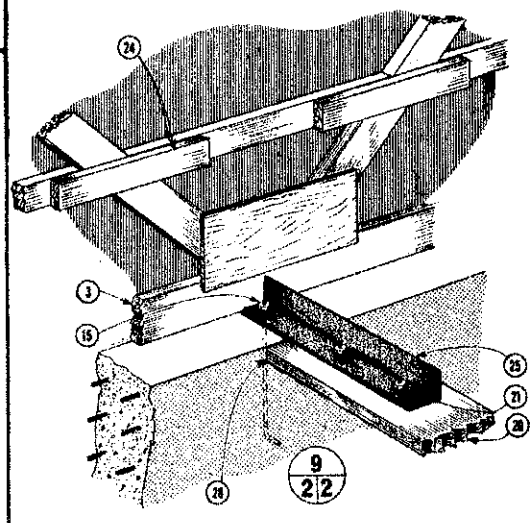
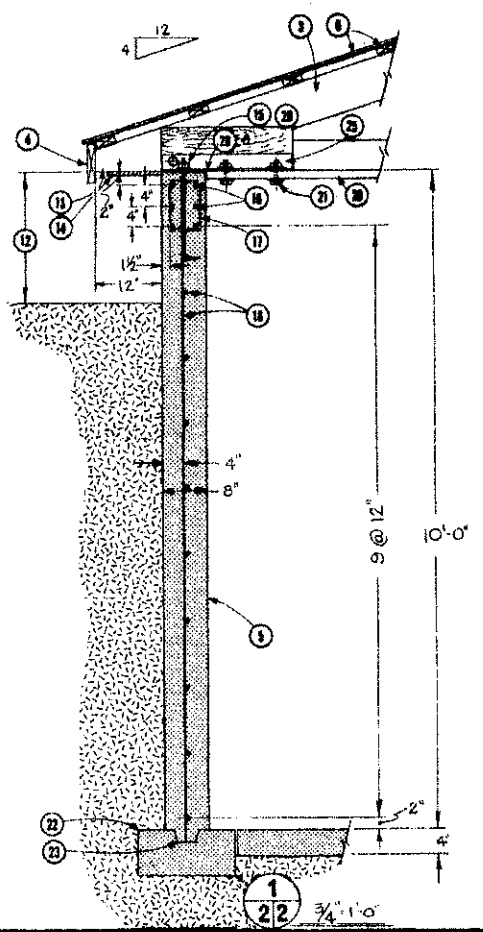
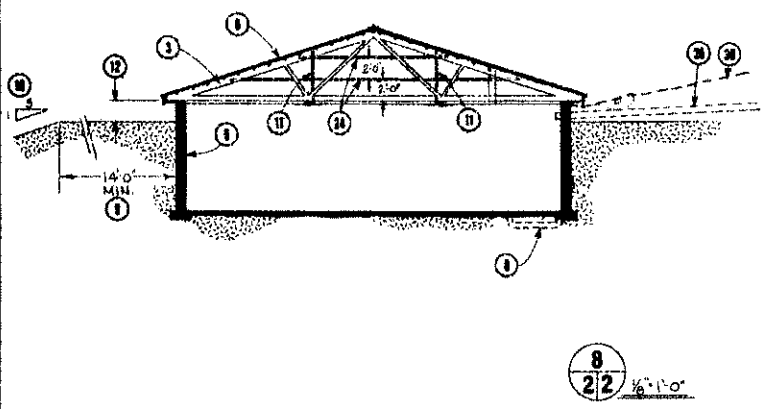
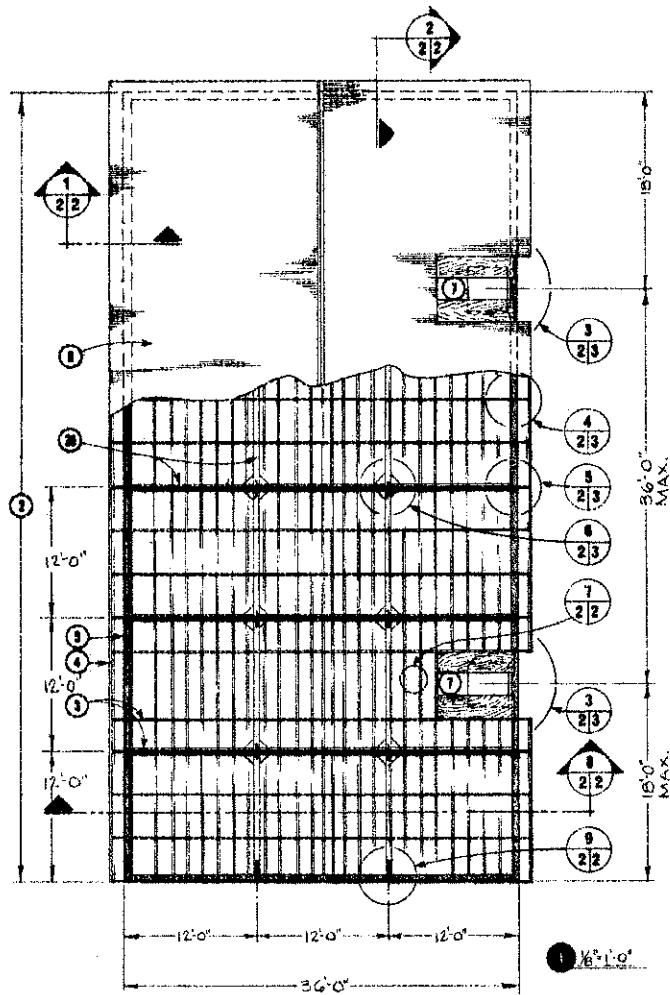


BYM	REVISIONS	CHECKED	DATE	APPROVED

CANADA FARM BUILDING PLAN SERVICE

RECTANGULAR ROOFED MANURE TANK

DESIGNED <i>J. E. J.</i>	DATE JUNE-72	PLAN 3253 SHEET 1 OF 4
DRAWN <i>LEO BIAIS</i>	REVISED	
TRACED	SCALE N/A	
CHECKED <i>H.A.J.</i>		



1. plan view of manure tank (metal roofing partly removed) 3950 cu. ft. storage per 12'-0" length, based on 9.5' liquid depth
2. length may vary in multiples of 12'-0" (draw @ 72'-0")
3. select roof trusses for "dead load" (weight of roof) plus full "ground snow" load (see National Bldg. Code Suppl. 4, Part D). If tank roof is beside another higher roof, allow for additional snow which drifts and slides from the higher roof (see National Bldg. Code Commentary No. 2, Suppl. 4). Also:
 - (a) Trusses at access hatch to be repositioned to suit pump manufacturer
 - (b) Trusses on the 12'-0" multiple to be braced as shown in 2/22, 3/22
 - (c) End wall trusses to have gussets on inside face only
4. 2" x 8" face board
5. tank wall, 3000 psi concrete or better. Rebars 60,000 psi yield strength
6. metal roofing on 2" x 4" purlins @ 18" o.c., for ground snow load up to 42 psf
7. access hatch (cover removed) 1 req'd per 36'-0" length
8. 4'-0" x 4'-0" x 1'-0" deep sump in floor for agitator pump (1 req'd. under every access hatch)
9. this soil bank is necessary to take advantage of the passive pressure of the soil. Compact soil in 12" layers after installing trusses 1 and bracing 2
10. max. slope
11. 2" x 6" x 6' brace and truss to 20
12. may vary, 8" min. to 2'-0" max.
13. 2" air inlet, continuous
14. 3/4" x 10" wood soffit
15. 1/2" # x 14" anchor bolts @ 4'-0" o.c. side walls @ 12'-0" o.c. end walls
16. 1" # rebars, 18" lap joints, continuous (typical)
17. 3/8" # stirrups, 24" o.c. (typical)
18. 1/2" # rebars @ 12" o.c. both ways (typical)
19. exterior cladding
20. 2" x 8" brace @ 12'-0" o.c.
21. 1/2" # x 3/4" machine bolts, nuts & washers
22. 8" x 18" concrete footing
23. 2" x 4" keyway
24. 2 - 2" x 4" blocking along end wall truss
25. 2 1/2" x 3" x 3" x 24" long angle, drill for 1/2" # bolts & paint with rust inhibitor
26. 2" x 4" purlins
27. 2" x 3" stiffeners wherever trusses are over 4'-0" o.c.
28. tight fit, wood to concrete
29. 8" diam. (or larger) pipe, slope 1/8" min. from barn to storage. Locate pipe outlet as close as possible to top of tank wall
30. earth cover over manure pipe to minimize freezing

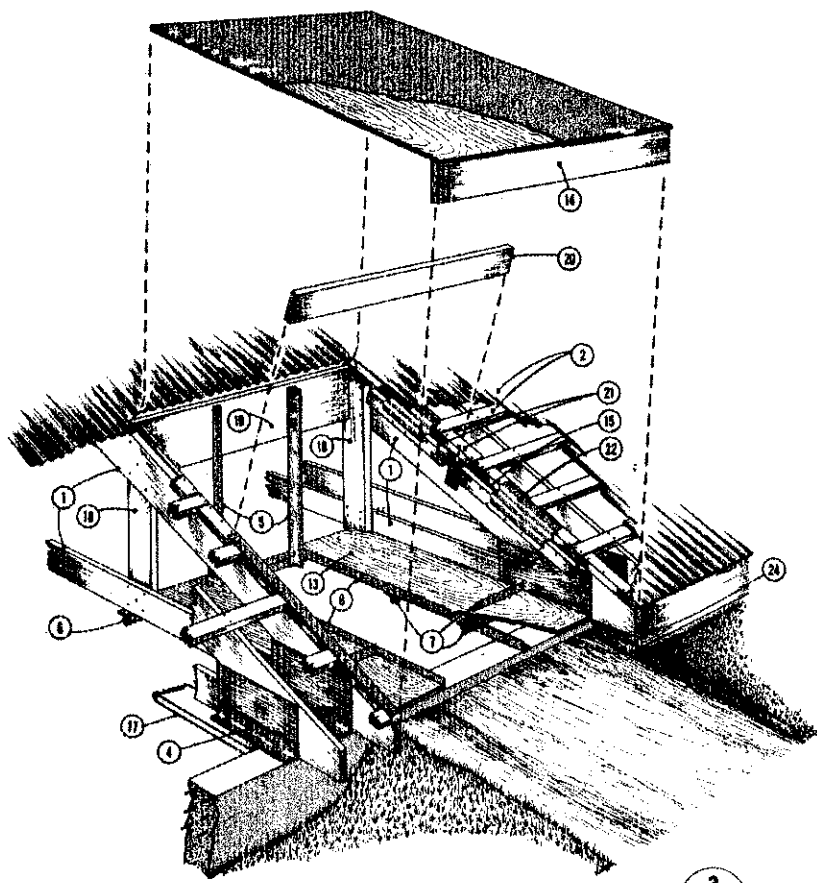
SYM	REVISIONS	CHECKED	DATE	APPROVED

CANADA FARM BUILDING PLAN SERVICE

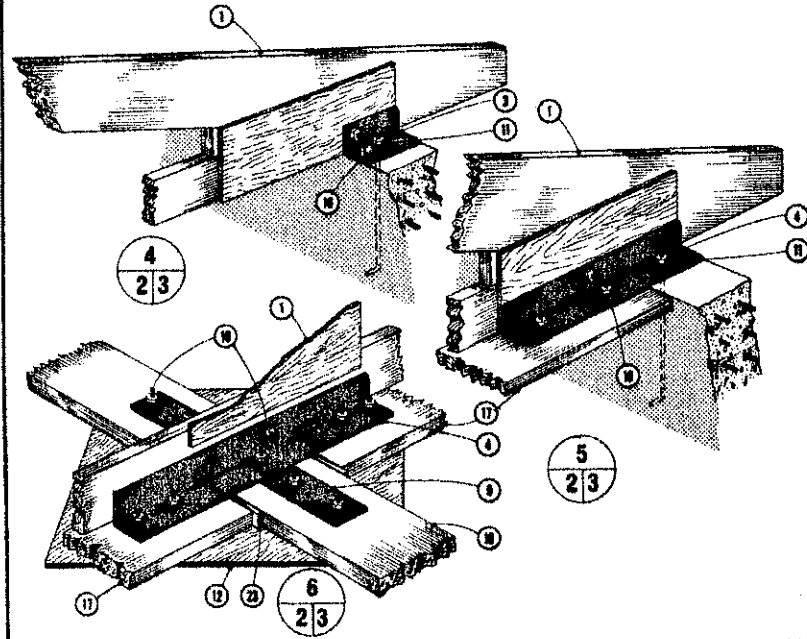
FLOOR PLAN SECTIONS & DETAILS

DESIGNED J.E.T.	DATE JUNE-72	PLAN
DRAWN LEO BLAIS	REVISED	3253
TRACED	SCALE	SHEET 2 OF 4
CHECKED H.A.J.	AS SHOWN	

A	A Detail No.
B	B Sheet No. On Which Detail Originates
C	C Sheet No. On Which Detail is Shown



3
2/3



4
2/3

5
2/3

6
2/3

1. roof truss
2. metal roofing on 2" x 4" purlins @ 18" o.c.
3. 3" x 3" x 1/2" x 8" long angle, drill for 1/4" # bolts @ unbraced trusses
4. 3" x 3" x 1/2" x 24" long angle, drill for 1/2" # bolts
5. 2" x 2" x 1/2" angle hangers, 3 - 1/2" # x 2 1/2" bolts to 2" x 10" joist
6. 2" x 2" x 1/2" cross angle (see pump manufacturer for length) weld to angle hangers & lag screw to bottom chord of truss
7. 3 - 2" x 2" x 1/2" intermediate angles x 2'-0" long, weld to seat angle & lag screw to bottom chord of truss - 2 under and 1 on top as wheel stop
8. 3" x 3" x 3/8" seat angles x 6'-8" long. Weld to 6 & anchor to concrete wall
9. 1/8" x 3" x 24" long steel strap. Drill for 1/4" # bolts
10. 1/2" # x 3 1/2" bolts, nuts & washers
11. 1/2" # x 14" anchor-bolts @ 4'-0" o.c. side walls except at each access hatch
12. 1/2" x 24" x 24" plywood gusset at each brace joint, 1/4" bolts thru
13. 3/4" fir plywood platform
14. 3/4" fir plywood access hatch (cover top with 28 ga. galv. steel & wrap edges 4 sides, nail from below, no exposed nailing) fascia board to be fastened in place to coincide with fascia board of manure tank.
15. 1/2" plywood blocking between gussets of truss
16. 2" x 8" x 12'-0" brace @ 12'-0" o.c., ends to butt tightly under the truss at brace joint
17. 2" x 8" x 11'-5 1/2" brace under trusses @ 12'-0" o.c. Fit ends tightly
18. 2" x 8" hanger notched for 18 & nailed to truss with 20 - 3 1/2" nails
19. 2" x 10" joist between trusses
20. 2" x 6" joist (loose) supported on metal joist hangers
21. 2" x 4" cleat & blocking between purlins
22. galvanized flashing continuous, notch for 22
23. hardwood wedges, tighten after wood has seasoned in place
24. hasp and lock, 2 corners

A
B
C

A Detail No.
B Sheet No. On Which Detail Originates
C Sheet No. On Which Detail is Shown

SYM	REVISIONS	CHECKED	DATE	APPROVED

CANADA FARM BUILDING PLAN SERVICE

ROOF DETAILS		PLAN
DESIGNED J.E.T.	DATE JUNE-72	3253 SHEET 3 OF 4
DRAWN LEO BIRIA	REVISED	
TRACED	SCALE 1/4"	
CHECKED H.A.J.		