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# HORSE BARN & ARENA



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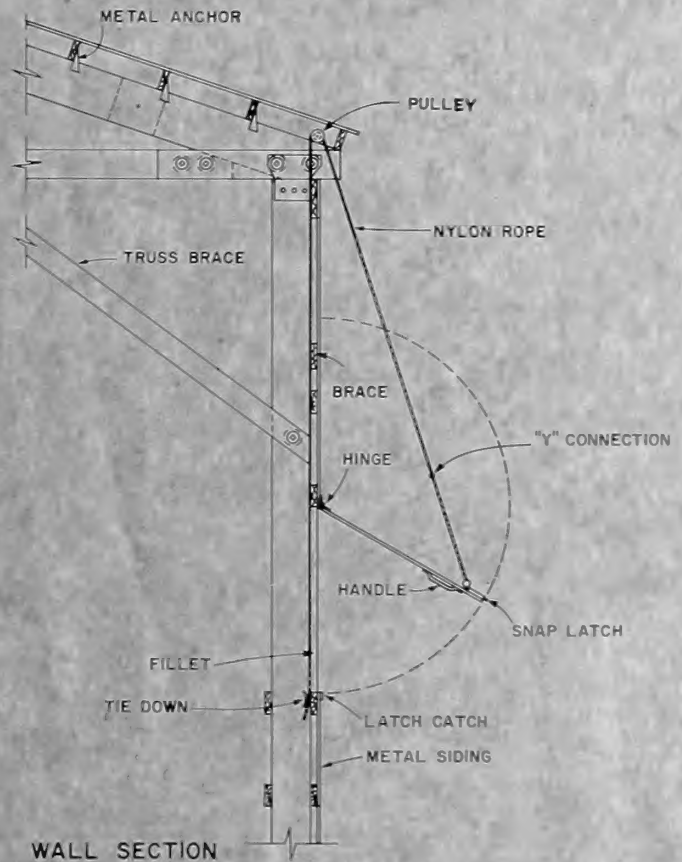
This horse barn and arena is designed for a variety of uses. To construct a building easily adaptable for different uses, it must be post free; that is, free of interior posts.

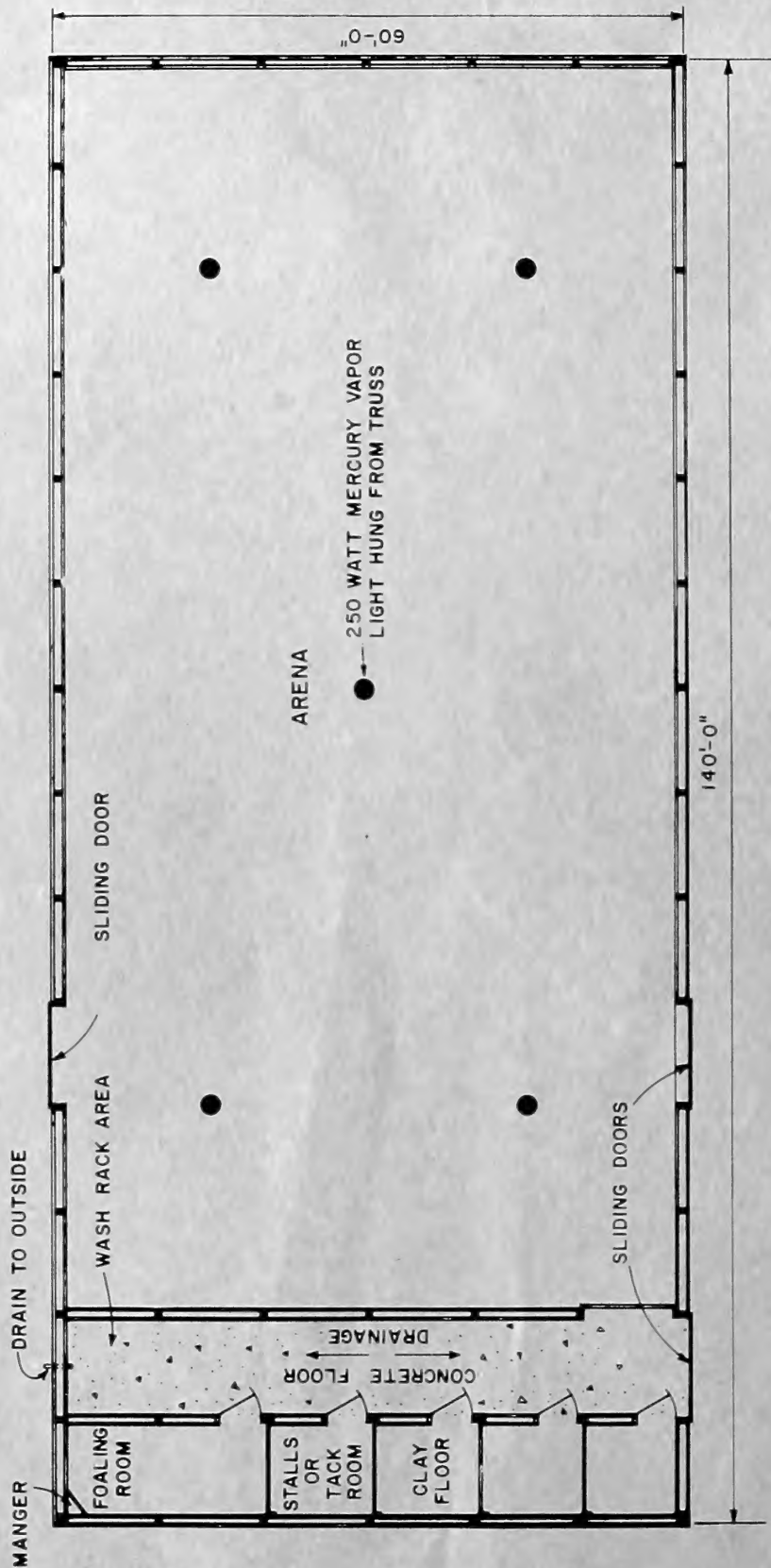
This 60-foot-wide and 140-foot-long barn is designed for low-cost pole or post construction. It is sheathed with metal roofing and siding. The working drawings include construction details for building the trusses; the total load, live plus dead, equals 32 pounds per square foot. There is a 10-foot spacing between each truss. The proper camber may be introduced by raising the lower chord  $1\frac{1}{2}$  inches at the center during fabrication.

When making the truss all lumber should be structural grade with minimum allowable working stresses in pounds per square inch as follows: 800 PSI compression parallel to the grain, 1,200 PSI extreme fiber in bending, and 1,600,000 PSI modulus of elasticity.

Complete working drawings may be obtained from the extension agricultural engineer at your State university. There may be a small charge to cover cost of printing.

If you do not know the location of your State university, send your request to Agricultural Engineer, Extension Service, U.S. Department of Agriculture, Washington, D.C. 20250. He will forward your request to the correct university. ORDER PLAN NO. 6171, HORSE BARN AND ARENA.





FLOOR PLAN



