

## Timber Design Projects

THA Engineering Solutions routinely provides structural engineering services to design and detail construction plans for timber buildings. Structures are designed to meet applicable Codes. Commercial or public access buildings are designed to meet requirements of the State Building Code as required by state with jurisdiction.



Bob Roberts Motor Sales – Owensboro, KY



Cattle Farm Covered Stack Pad, Loretto, KY  
Client: NRCS – State of Kentucky

## Timber

Timber buildings are chosen because of the efficiency and versatility of the structure which has several advantages:

- 1) Constructed of readily available materials.
- 2) Typically in the dry in a matter of days.
- 3) Maximum flexibility in finishing the interior.

## Agriculture Buildings

THA has designed several timber buildings for application for Kentucky Division of Conservation Cost Share Program. These structures typically include chicken litter storage buildings and cattle feed buildings with stack areas. The buildings are designed to comply with NRCS Code No. 313 (Conservation Practice Standard and Construction Specifications).



Myer Creek Park 4-H Activity Center, Calhoun, KY  
Client: McLean Co. Fiscal Court / AFS Construction

## Design Considerations

Timber is a very resilient material and very forgiving in short-term loading conditions. One key to designing a timber building is to size the columns and other structural members to resist bending and shear in wind and live load conditions. The foundation is designed to prevent lateral movements and column settlement and to prevent the wind from “picking-up” the relatively light structure.