

What do we do with the old buildings?

- Raze it?
www.strongoakswoodshop.com
- Remodel it?
- Retrofit it?
- > 50% of new?



Evaluate the Foundation



Cracks, settling, shifting?

Loose / missing mortar?

Spalling?



Evaluate the Roof



Outside

- *Check roof covering and flashing*
- *Valleys, shed roofs, cupolas, etc.*



Evaluate the Roof

Inside

- Water stains
- Mold
- Rotted sheathing
- Rusted metal plates



Evaluate the Location

- Topography*
- Access to and from*
- Pick-up and delivery*
- Expandability*
- Environmentally Friendly*



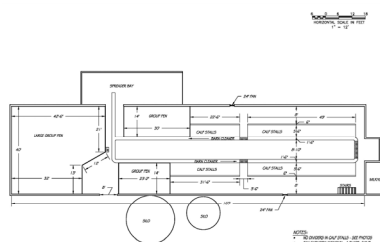
Evaluate the Exterior Walls

- Walls straight?
- Joist & rafter bearing surface
- Clean joint & cable



Evaluate the Building Size

- Interior big enough*
- Room to install the equipment*
- Adequate clearances*



Evaluate the Interior

- Location of gutters & drains*
- Condition of floors above & below*
- Free-span space*
- Accommodate equipment?*
- Grade A requirements?*





Evaluate the Doorways

- Large enough*
- Conveniently located*
- Need to be moved or restructured*




Evaluate the Ambient Environment

Air tight?
 Insulated?
 Condition of insulation?
 Heating & Ventilation?

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Biosecurity

Typical pathogen load?
 Adequately cleaned & sanitized?
 Fit for neonates?






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Evaluate the Utilities

Condition of plumbing & wiring?
 Water supply?
 Natural gas / propane?
 Electrical entrance?
 Feed, water, manure handling?
 Labor efficiency?

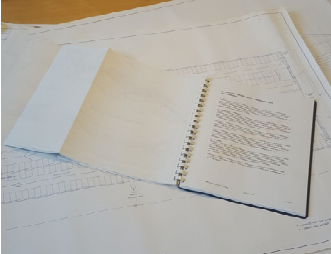




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Do Sweat the Details

Detail Drawings & Spec's a must
 Spec Book has final say
 Copies to key employees & service people
 Minimizes change orders






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Fire Safety

- Outlets clean & functioning
- Fans
- Light fixtures
- Extension cords
- Cobwebs & chaff






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Livestock Enterprises

How much / many of product?
 How much room?
 Build for the animal
 Ancillary Structures?






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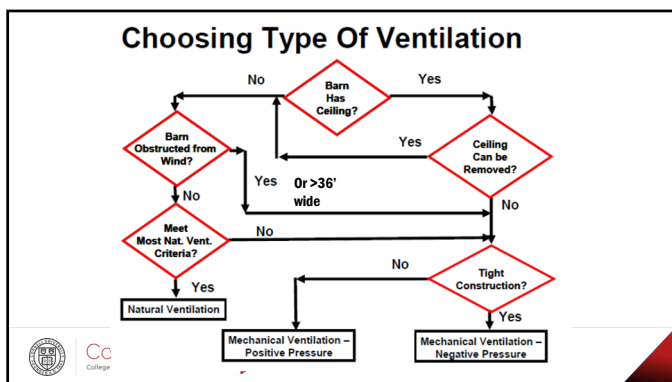
Ventilation System Options

- Natural
- Natural Assisted/Mechanical Assist
- Mechanical
 - Positive pressure
 - Negative Pressure
 - Neutral Pressure


Necessity

- Every operation regardless of size
- Treat
- Sort
- Spray
- Weigh
- Tag
- Preg Check
- Receive
- Ship

Benefits



- Direction and Control of Animal Movement
 - > $m_1v_1 + m_2v_2 = m_1v_1' + m_2v_2'$
- Safety of Personnel and Animal
- Reduction of Cost and Labor Requirements
 - > Less time vet is on site, less cost for visit
- Ability to Treat Animals on Site – no transport costs



Ventilation



Requirements:

- Varies by species and maturity
- Building requirements usually exceed animal requirements – aim for larger number
 - > 40 - 60 air changes per hour (ACH) in hot weather
 - > 20 - 30 ACH in mild weather
 - > 4 ACH in cold weather
- Velocity > 60 fpm ≈ draft (cold weather)
- What counts is what is happening at nose level

Location, Location, Location

- Convenient for Moving Cattle In & Out
 - > Central location
 - > Slightly uphill
- Security
 - > Theft, vandalism, fire
 - > Biosecurity
- Neighbors
- Expandability
- Easy Access to Supplies
 - > table – supplies, records
 - > vet truck – tools handy

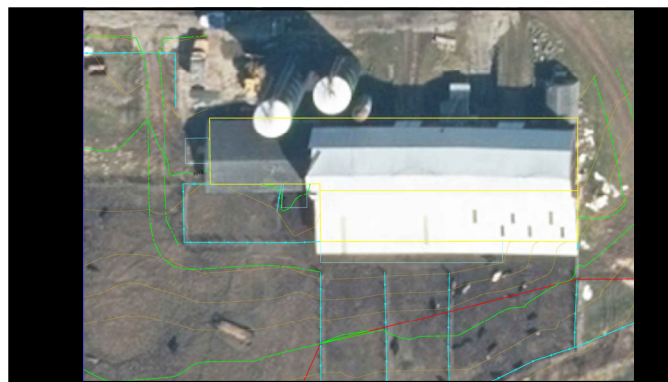
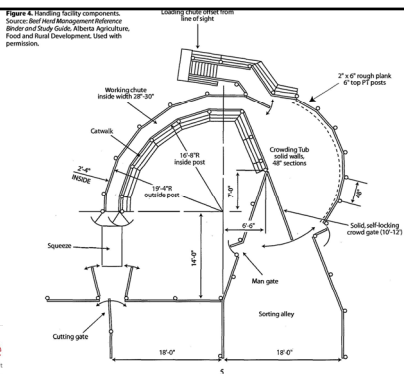
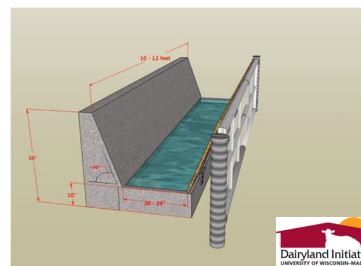
Location, Location, Location

- Protection from the Elements
- Shadows
- Indoor
 - > Climate controlled
 - > Proper lighting
- Sufficient Headroom



Footbath

- Periodic treatment for digital dermatitis, foot rot, etc.
- 10' – 12' long, 2' wide
- Sloped sides
- Side gate exit
- Locate for ease of cleanout
- CuSO₄, ZnSO₄, Formaldehyde



Scales

- Nice to have
- \$\$\$
- Place ahead of squeeze chute / headgate to calc treatment
- Needs sturdy, steady floor
- Serviceability

