Notes:
- Structural details to be designed and constructed in accordance with local codes and conditions.
- Barns with sloped resting areas are designed to use no bedding and high animal stocking densities to encourage manure movement off resting area.
- These barns are not designed to accommodate mechanical cleaning or bedding of the resting area.
- Feed management must be adjusted to account for high stocking rate and feed access.

Related Detail Sheets:
1. DIP 831 Fenceline Feed Barriers
2. DIP 841 Watering Locations for Dairy Cattle

Important Notes:
- Self cleaning will not function at low stocking densities.
- Do not use these barns if you desire reasonably clean animals.
- Do not use these barns for animals less than 6 or more than 18 months old.
**Special Notes on Manure Tank:**
- A Pennsylvania DEP Water Quality Management Permit may be required for manure tank.
- Design and construct manure tank and slats in accordance to USDA-NRCS Standard PA-313 or its equivalent.
- PA-DEP requires liquid manure tank storage to be designed by a Professional Engineer.
- In other states be sure to follow applicable water quality regulations for liquid manure tank permit, design and construction.

**Notes:**
- Structural details to be designed and constructed in accordance with local codes and conditions.
- For a self-cleaning floor rest area, use a 1" in 12" slope. Animals will have trouble negotiating steep slopes, shallow slopes will not clean.
- Solid partition for self-cleaning sloped floors.
- Extend every other partition to roof to reduce wind swirl in open front barns.
- Face open front away from prevailing winds.
- Open front facing SE will provide afternoon shading in hot weather.

**Related Detail Sheets:**
1. DIP 831 Fenceline Feed Barriers
2. DIP 822 Watering Locations for Dairy Cattle
3. DIP 801 Typical Sidewall - Outside Alley
4. DIP 861 Gates and Penwork

---

**SINGLE SLOPE HEIFER SHELTER, 500 - 1000 POUNDS, 6 GROUPS - SLOTTED FLOOR**

Tyson, Greven, MeFadden, Wilton

Date: 9/20/07

Sheet # of 4

No. DIP 571
Notes:
- Structural details to be designed and constructed in accordance with local codes and conditions.
- For a self-cleaning floor rest area, use a 1° in 12° slope. Animals will have trouble negotiating steep slopes, shallow slopes will not clean.
- Solid partition for self-cleaning sloped floors.
- Extend every other partition to roof to reduce wind swirl.
- Orient overshot ridge perpendicular to prevailing winds.
- Truss must be designed for overhang on one end.
- Roof overhang must clear feed equipment.

Related Detail Sheets:
1. DIP 831 Fenceline Feed Barriers
2. DIP 851 Freestall Crossovers and Floor Surface Details
3. DIP 841 Watering Locations for Dairy Cattle
4. DIP 801 Typical Sidewall - Outside Alley
5. DIP 811 Ridge Openings for Naturally Ventilated Dairy Shelters
6. DIP 861 Gates and Penwork
Notes:
- Structural details to be designed and constructed in accordance with local codes and conditions.
- For a self-cleaning floor rest area, use a 1" in 12" slope. Animals will have trouble negotiating steep slopes, shallow slopes will not clean.
- Solid partition for self-cleaning sloped floors.
- Orient overshot ridge perpendicular to prevailing winds.
- Door and roof structure must clear feed equipment.

Related Detail Sheets:
1. DIP 831 Fenceline Feed Barriers
2. DIP 851 Freestall Crossovers and Floor Surface Details
3. DIP 841 Watering Locations for Dairy Cattle
4. DIP 801 Typical Sidewall - Outside Alley
5. DIP 811 Ridge Openings for Naturally Ventilated Dairy Shelters
6. DIP 861 Gates and Penwork