

## MANURE STORAGE / DEAD BIRD COMPOSTING FACILITY DESIGN WORKSHEET

Conservation District: \_\_\_\_\_ Location: \_\_\_\_\_

Cooperator: \_\_\_\_\_ Field Office: \_\_\_\_\_

Identification No.: \_\_\_\_\_ Field No. \_\_\_\_\_

### TRUSS DESIGN

Metal \_\_\_\_\_ or Wood \_\_\_\_\_

Minimum design load = \_\_\_\_\_ psf live load plus dead load of roof.

50-yr Mean Recurrence Interval Wind Speed: \_\_\_\_\_ mph

Eave Overhang: \_\_\_\_\_ ft (2.5 ft max.)

Roof Slope: 3:12 \_\_\_\_\_ 4:12 \_\_\_\_\_

Truss span between supports \_\_\_\_\_ ft.

Supplier designed Yes \_\_\_\_\_ No \_\_\_\_\_ If Yes attach copy of design computations certified by a registered engineer. If No state designer and approving engineer.

Designed by: \_\_\_\_\_ Approved by: \_\_\_\_\_

### POST DESIGN

Post height: \_\_\_\_\_ ft. Post spacing (C-C): \_\_\_\_\_ ft.

50-yr Mean Recurrence Interval Wind Speed: \_\_\_\_\_ mph

Bracing? Yes \_\_\_\_\_ No \_\_\_\_\_ Span between posts: \_\_\_\_\_ ft.

Design chart used: Table \_\_\_\_\_ (from Florida Engineering Technical Note FL-ENG-23)

Post size from Table \_\_\_\_\_

Nominal \_\_\_ x \_\_\_

Full size \_\_\_ x \_\_\_

Pole \_\_\_\_\_

(Circle type to be used)

### POST EMBEDMENT DEPTH

Foundation description: Soil Name \_\_\_\_\_

Unified classification symbol \_\_\_\_\_

General description (excavated, compacted fill, depth to seasonal water table, etc.) of foundation material \_\_\_\_\_

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NOTE: Designs for structures on weak, soft, wet or highly plastic soils must be checked by an Engineer.

Soil Bearing Pressure: \_\_\_\_\_ psf      Post Height: \_\_\_\_\_ ft

Are posts encased in a concrete floor slab? Yes \_\_\_\_\_ No \_\_\_\_\_

If Yes, embedment = \_\_\_\_\_ feet minimum from Table \_\_\_\_\_, FL-ENG-23

If No, embedment = \_\_\_\_\_ feet minimum from Table \_\_\_\_\_, FL-ENG-23

### BEAM (GIRDER) DESIGN

Are trusses supported by beam? Yes \_\_\_\_\_ No \_\_\_\_\_

If No: No beam needed for most certified metal trusses.

If Yes: Supports trusses only, from Table \_\_\_\_\_, FL-ENG-23  
\_\_\_\_\_ - 2" X \_\_\_\_\_ (dressed) with/without beam braces.

### PURLIN DESIGN

Distance between trusses, \_\_\_\_\_ ft. = Purlin Span

Purlin size, from Table \_\_\_\_\_, FL-ENG-23

Laid flat: \_\_\_\_\_ x \_\_\_\_\_

On edge: \_\_\_\_\_ x \_\_\_\_\_

(Circle type to be used)

Designed by: _____	Date: _____
Checked by: _____	Date: _____
Approved by: _____	Date: _____