STRUCTURES DESIGN BULLETIN 14-01

(FHWA Approved: January 21, 2014)

DATE: January 21, 2014

TO: District Directors of Operations, District Directors of Production, District Design Engineers, District Construction Engineers, District Geotechnical Engineers, District Structures Design Engineers

FROM: Robert V. Robertson, P. E., State Structures Design Engineer

COPIES: Brian Blanchard, Tom Byron, Duane Brautigam, David Sadler, Jeffrey Ger (FHWA)

SUBJECT: Buried Footings for Land Piers

This bulletin implements new Structures Design Guidelines language that emphasizes the current policy on the use of buried footings for land piers.

REQUIREMENTS

1. Add the following new paragraph and figure to Structures Design Guidelines 3.11.2:

C. Completely bury all spread, pile supported or drilled shaft supported footings, grade beams and other similar components used for land piers. Provide a minimum of three feet from the finish grade to the top of the footing. Provide this minimum embedment for footings buried in sloped embankments as shown in Figure 3.11.2-1. Mounding of fill above the adjacent finish grade so as to bury a footing is not permitted.
2. Add the following new paragraph to Structures Design Guidelines 3.11.5:

D. If a tension tie is used between columns or column footings, completely bury the tension tie and provide a minimum of three feet from the finish grade to the top of the tension tie.

3. Delete Structures Detailing Manual 13.5.G and insert the following:

G. Footing depths below the finish grade.

4. Delete Structures Detailing Manual Figure 13.5-4.

IMPLEMENTATION

This is a clarification of existing policy valid for all projects and as such no changes in projects are anticipated.

CONTACT

Robert V. Robertson, P.E.
State Structures Design Engineer
Florida Department of Transportation
605 Suwannee Street, MS 33
Tallahassee, FL 32399-0450
Phone (850)-414-4267
Robert.Robertson2@dot.state.fl.us

RVR/CEB