January 7, 2002

M E M O R A N D U M

TO: District Structures Design Engineers
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District and Central Office Construction Engineers
(Dan Foss, Henry Haggerty, Steve Benak, Jennifer Olson, Steve Wigle, Mark Croft, Jim Moulton, Jr., Walt Lange, And Anath Prasad)
District and Central Office Traffic Operations Engineers
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FROM: William N. Nickas, State Structures Design Engineer

COPIES: Prof. Marc Hoit (UF), Bob Nichols, Andre Pavlov, Charlie Harvey

SUBJECT: **Temporary Design Bulletin C-02-01**
Updated ATLAS Program Version 4.48
Effective January 7, 2002

Two errors were discovered in the ATLAS program for design/analysis of cable supported signal systems:

1. Only DL+WL load case was checked in the program's design mode.
2. A factor of safety was not applied for both the catenary and messenger cable design in the program's design mode.

The program has been corrected and now checks for both DL only and DL+WL load conditions. A factor of safety of 2.5 has been added for cable design. In some cases, results from previous versions of the program undersized both the catenary and messenger cables, particularly when ¼ inch cable sizes were recommended. The updated ATLAS program, Version 4.48, is available at the University of Florida's Bridge Software Institute (BSI) website *http://bsi-web.ce.ufl.edu/*.

WNN:phs

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