

# PennDOT e-Notification

Bureau of Solutions Management  
Highway Applications Division



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## **BPLRFD**

No. 009  
September 25, 2023

## **Release of Version 1.11.0.0**

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The Department's LRFD Bearing Pad Design and Analysis (BPLRFD) program has been revised as described in the attached "Summary of September 2023 Revisions – Version 1.11.0.0".

The new version has been placed on PennDOT servers for use by the Districts. Consultants and others, who have a current license agreement for **BPLRFD Version 1.10.0.0**, can obtain the updated version by submitting an [Update Request Form](#) along with an **update fee of \$100 for private organizations and \$50 for governmental agencies**. Updates for **BPLRFD Version 1.9.0.0 or earlier** will require an **additional fee**. For BPLRFD update fee details, refer to the [BPLRFD Fee Schedule](#). The update fee is waived for federal and state transportation agencies.

Once payment is received, an e-mail will be sent with download instructions. A valid e-mail address must be provided on the Update Form to receive the download instructions.

Please direct any questions concerning the above to:

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Attachment

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Archived copies of all previously distributed e-Notifications can be obtained from the PENNDOT LRFD and Engineering Programs website at <http://penndot.engrprograms.com/home> and clicking on "e-Notification" and then "Mailing List Archives."

## **SUMMARY OF SEPTEMBER 2023 REVISIONS - VERSION 1.11.0.0**

Since the release of BPLRFD Version 1.10.0.0 several revision requests and user requested enhancements have been received. This release of BPLRFD Version 1.11.0.0 contains the following revisions and enhancements.

### **General Program Revisions**

1. The program now computes and reports the moment transferred to the substructure due to the deformation of an elastomeric element based on the LRFD Specifications Equation 14.6.3.2-3 (Request 127).
2. The program has been updated to address the change of approval authority from Chief Bridge Engineer (CBE) to District Bridge Engineer (DBE) (Requests 128 and 134).
3. An error in the source code was fixed to ensure that all dead and live load combinations are calculated to determine the maximum shear strain due to axial load for Method B calculations (Request 129).
4. A discrepancy between the User's Manual and the BPLRFD.PD file regarding the Minimum Pad Thickness has been resolved (Request 135).

### **Programming Revisions**

5. An x64 build option has been added to BPLRFD to match the programs used by APRAS. (Request 132).

### **User's Manual Revisions**

6. The consideration of beam dapping and sole plates has been added to the description in section 5.9 of the UM and the Help files for the TOL tab and the corresponding commands, tolLong and tolTrans. (Request 130).
7. The fax number has been removed from Chapter 9 of the User's Manual and the revision request template because it is no longer monitored. (Request 133).
8. Windows 8.1 operating system has been removed from the User's Manual as a supported operating system. (Request 137).