

SUMMARY OF JULY 2005 REVISIONS -VERSION 7.11.0.8

BAR7 Version 7.11.0.8 contains the following revisions.

1. A problem has been corrected where a truss analyzed for a uniform lane load entered via the Special Live Load input gives the same incorrect result for LL forces regardless of the value entered for the Uniform Lane Load. (BAR7REV131)
2. The revision to BAR7 v7.10 (BAR7REV047) required the use of AASHTO 10.48.8.3 Equation (10-149) when calculating the allowable shear force for hybrid girders. This was causing unusually low ratings for some existing structures. A new input item (HYB) has been added to act as a switch. The purpose of this new input switch will be to select the shear rating equation to use for hybrid sections, AASHTO 10.48.8.3 equation (10-149) or equation (10-113). (BAR7REV132)
3. The revision to BAR7 v7.11.0.6 (BAR7REV128) did not change the calculation of the allowable shear force in an end panel. It simply provided a switch to disallow end panel shear governing. This sometimes resulted in a rating of 999.99 reported at that section. Instead of using the new END PANEL input switch to override the end panel shear rating, the switch is now used to determine whether to use AASHTO Equation (10-118) or (10-113). (BAR7REV133)
4. For a continuous composite girder, the program attempts to compute a negative moment rating based on the amount of reinforcement in the slab. When zero area of steel is entered for the longitudinal slab reinforcement, the program abnormally terminated with a divide by zero. A check has been added to print an input error when no longitudinal slab reinforcement is entered for a continuous composite girder. (BAR7REV134)
5. Figure 2.4.1 Standard Live Loadings has been revised to reflect the more accurate value of 13.68 kips for the first axle of the ML80 live load. (BAR7REV135)