



LARS Bridge CONNECT Edition V10 Update 08 Release Notes August 2019

LARS Bridge CONNECT Edition V10 Update 08 is a maintenance release with several bug fixes including:

Bug Fixes:

- The issue related to program showing unsymmetrical shear rating factor for inventory has been fixed. Now the program shows symmetrical inventory shear rating factor.
- The issue related to how the program is using the wheel spacing for calculating LLDF if more than one lane is allowed has been fixed. For two lanes, the program uses 6 ft distance between wheels of adjacent vehicles.
- The issue related to program showing incorrect LLDF for interior and exterior girder for single lane and multi lane condition has been fixed.
- Shear reinforcement spacing incorrectly imported from AASHTOWare BrR. This issue has been fixed. Now program shows actual spacing of the imported model.
- The issue of adding or removing the stiffeners and bracing does not affect the shear rating has been fixed. Now the shear rating shows different results when user adds or removes the bracings.

- The issue related to the system factor when entered is being applied to the strength moment and shear. This issue has been fixed for prestressed concrete bridge and now the program uses system factor of 1.0 at the strength limit state for shear as per MBE 6A.4.2.4.
- The issue related to incorrect rating factor being generated for prestressed concrete beams near the interior support has been fixed. The program was showing -999.99 for the service load, which has been fixed, and in the current version, program will show positive value for rating factor at the support location.
- The issue related to the program not multiplying the rating factor by 40 tons for lane type legal load as per MBE 6A.8.3 has been fixed. Now the program shows a corrected load after multiplying the land type legal load by rating factor.
- The issue related to the program calculating incorrect moment of inertia has been fixed.
- The issue related to the program is calculating the M_{cr} value incorrectly has been fixed.
- The issue related to the LARS not reporting M_{cr} and related values in the negative moment region has been fixed. Now user will be able to see the M_{cr} in the negative moment in the report generated.
- The issue related to the LARS assigning the lowest LL factor for legal loads instead of assigning the most conservative LL factor has been fixed. With this enhancement in place, the conservative LL factor is used by the program for legal load.
- The issue related to the program was using incorrect effective depth d' and was calculating f_{pc} value incorrectly has been fixed.
- The issue related to the program calculating incorrect V_c values and showing unsymmetrical V_c values in the shear capacity report is fixed.
- The issue related to program calculating incorrect Moment and shear Live load values (without impact) for Timber and steel beam has been fixed. Now with the new version of LARS, the Moment and shear Live load values (without impact) for Timber and steel beam are matching.
- The issue related to the program showing incorrect shear capacity for PSC girder at a CP when Slab-Steel- Area Type rebar is assigned has been fixed. With current enhancement, the program calculates accurate shear capacity at the CP near support.

IMPORTANT NOTICE:

LARS Connector v10.08 supports the latest version of BrR (BrR 6.8.3). For a successful connection between LARS Connector v10.08 and BrR versions 6.8.2, 6.8.1 and 6.8.0, the file **abnsys.dll** in the BrR installation folder (e.g. C:\Program Files (x86)\AASHTOWare\BrDR682 or C:\Program Files\AASHTOWare\BrDR682) should be copied and pasted to LARS Connector installation folder (e.g. C:\BKey\ConnectorBrR68).