

RELEASE NOTES

for

BRASS-CULVERT™ Version 3.5

September 2019

General

The BRASS™ incident tracking system can be found at www.wydot-brass.com. Users without an account on the incident tracking system can request an account by clicking on the "Open a Technical Support Account" link/button and e-mailing the address or calling the phone number listed. A username and password will be created and sent to the user. All BRASS™ technical support questions should be logged in this system.

Program Maintenance

The following issues were addressed for this release. The incident number is listed in parentheses after each issue if applicable.

Maintenance

- Updated the GUI grid control to use Spread .NET Version 12. (1528)
- Updated the GUI to reference the .NET Framework 4.7.2. (1551)
- Updated the translator to reference the .NET Framework 4.7.2. (1552)
- Updated the installation with respect to the Start Menu format to create an individual menu for this application. Windows 10 is only a one-tier menu system, so using an overall BRASS menu to house submenus for all the BRASS applications could no longer be done. (1576)
- Updated the various stylesheets (save, output, and translator summary) from Version 1.0 to Version 3.0. (1591)
- Migrated the help system from the .doc-based RoboHelp 8 help to a .htm-based RoboHelp 2019. The resulting help system is still a .chm file. (1595)
- Revised the GUI to check the status of the backup file and issue a detailed message when the file's read-only attribute is checked. If this is not done, a cryptic message is issued and the data file will not open. (1630)
- Revised the reinforcement input on the Structure tab to allow users to omit reinforcement in the outside face of the exterior walls. (1634)

Bug Fixes

- Corrected an error transferring rebar from the UI to the engine. The reinforcement at the top of the exterior wall was erroneously copied to the bottom of the exterior wall. (1565)
- Corrected an output error that caused the program to crash when some data sets were analyzed more than once. (1607)
- Corrected a units error in the results of the crack control computations. (1612)
- Corrected a units error in the table heading for the crack control output. (1621)
- Corrected an error in the application of the “% Dynamic Load Allowance” and the “Fixed Dynamic Load Allowance %” inputs. (1647)
- Corrected an output error in the reinforcement summary table and added a note to clarify multiple presence for legal and permit rating. (1651)

Program Verification

Regression testing was performed on BRASS-CULVERT™ using its feature that allows automatically-varying geometry and load parameters. The results of the new version were compared to the previous version and examined for any unexpected results. See the separate release testing report for details.