Release Notes for RISAFoundation

Version 15.0.2 Enhancements/Corrections

- General:
  - Converted to cloud-based subscription licensing.

Version 15.0.1 Enhancements/Corrections

- General:
  - Added a new feature to export results spreadsheet data to Excel spreadsheets.
  - Added a button to direct users to the RISA feedback page.
  - Enhanced backward compatibility when the program cannot recognize model file data generated from future versions.
  - Resolved an issue that may cause the program to close unexpectedly during solution when a model has masonry retaining walls and certain load combinations unchecked for solution.
  - Corrected an issue where the help file shortcut (F1) for the Envelope Point Reactions spreadsheet failed to open the help file.
  - Fixed an issue where changes in one footing definition might affect design results for footings under another footing definition.
- Concrete:
  - Added a new rebar design option to optimize slab design based on average steel area per slab width instead of integer number of bars.
  - Updated program to correctly calculate Vc for longitudinal reinforcement by taking the larger value between equations a and b in Table 22.5.5.1 of ACI 318-19.
  - Implemented provisions to distinguish between the compression strength capacity of walls and columns according to CSA A23.3-14, where it was previously undifferentiated in the program.
  - Resolved several issues within the slab and Slab Region spreadsheet during adding and deleting new regions.
  - Fixed an issue where certain values in the footing shear check were displaying 'nan' when using the ACI 318-19 code.
  - Corrected the equation used to determine the axial tension capacity of concrete columns from ACI Section 22.4.3 to ACI Section 22.4.2.
- Spreadsheet:
  - Resolved an issue in the Wall Footing Definitions spreadsheet that caused the Bot Bar and Top Bar to have matching bar sizes when their cells were selected.

    - Fixed an issue that prevented the Welded Wire Reinforcement sizes from being shown in the Wall Footing Definitions spreadsheet.
- Operations:
    - Updated the program initialization behavior to ensure default files (.def) are updated properly when upgrading the programs.

Version 15.0 Enhancements/Corrections

- General:
    - Added compliance with the 2021 International Building Code.
        - Added Load Combination generation compatible with 2021 International Building Code.
    - Compatibility with RISA-3D V21.0.0 and RISAFloor V17.0.0.
- Operations:
    - Added envelope point reactions to the Point Reactions spreadsheet and Model Display view.
    - Resolved an issue that the program may close unexpectedly during opening footing detailed reports if the solution included blank load combinations.
- Analysis:
    - Improved meshing behavior by changing the default mesh size from 12mm to 600mm when the Canadian Default Region is set within the program.
    - Resolved an issue that ignored the dead load category in a nested load combination.
    - Fixed a problem where the load combinations solved with RSA scaling factors used the incorrect RSA scaling factors for the orthogonal directions.
- Printing/Reports:
    - Resolved a graphical issue for the (Global) Model Settings portion of the printed reports.
- Detail Report:
    - Updated the masonry retaining wall detail report to accurately reflect clear cover measured from the outside of the wall.
    - Improved retaining wall warning message to provide additional information within the detail report.
- Design:
    - Resolved a problem with the pedestal shear design that resulted in the use of incorrect shear force in the presence of other pedestals in the model.