Release Notes for RISAFoundation

Version 13.0.4 Enhancements/Corrections

- Resolved an issue causing a false failure warning for a retaining wall.
- Resolved an issue with erroneous Mu=xx Unity Check value in the footing detail report.

Version 13.0.3 Enhancements/Corrections

- General:
    - Added the ability to verify mesh size is not set to 0, and will set a default size before solving the model.
    - Resolved an issue that caused spreadsheet results to inaccurately show N/A for Strip Results when reinforcement is set to Single Layer option.
    - Resolved an issue where the program will close unexpectedly when using the Cut tool for the soil pressure contour.
    - Corrected a graphical issue in the concrete pile reinforcements spreadsheets where the rebar was listed as "CUSTOM" instead of the actual reinforcement.

Version 13.0.2 Enhancements/Corrections

- General:
    - Resolved a display error that was reporting incorrect pile shear reinforcement spacing when utilizing pile caps.
    - Resolved a rare issue that was not allowing saved results to be read when the model file was saved to a cloud location.
    - Corrected an issue preventing the node label from being reported in a warning message in the Warning Log.
    - Resolved a meshing error caused by a mesh size of 0.
- Concrete Design:
    - Improved the footing optimization procedure to incorporate thickness considerations to achieve the required factor of safety for sliding.
    - Resolved an issue of wrong lateral pile stiffness being used in the analysis of foundation slab combined with piles.
    - Resolved a default value of -1 being used for Icr factor in the Modify Beams dialog which caused an error message.
    - Corrected a rare issue preventing the program from optimizing the design of footings.

    - Resolved an issue that spaced reinforcement at the maximum value entered in the Design Rules spreadsheet when the 'Force Top & Bottom Bars' option was selected.
- Graphical Interface:
    - Added the ability to open the Detail Reports for piles from results spreadsheets by using the Detail Report button.
    - Added the ability to display the soil pressure contour for enveloped results.
    - Resolved an issue causing the program to close unexpectedly when 'LC#' was nested in a load combination in lieu of 'L#'.
    - Corrected the behavior of nested load combinations to update automatically when rows are added or subtracted from the Load Combination spreadsheet.

Version 13.0.1 Enhancements/Corrections

- General:
    - Resolved an issue causing an erroneous message 'Failed to satisfy Top Minimum Rebar Spacing Requirement' for mat slabs using either the Single Layer or Mid-Depth Only.
    - Resolved an issue that would cause the program to close unexpectedly when attempting to view a Detail Report for a footing.

Version 13.0 Enhancements/Corrections

- General:
    - Added the ACI 318-19 concrete code for beams, columns, slabs and wall panels.
    - Added seismic factors (Omega, Rho and Ev) to the load combination generator.
    - Added the ability to consider cracked concrete sections by introducing a cracked factor, Icr.
    - Added the ability to exclude results based on selection.
    - Added the ability to include up to 100 custom other load cases.
    - Improved the Detail Report for footings by adding roof wind load categories to the loads summary table.
    - Resolved an issue causing an erroneous 'Deep Beam' warning message.
    - Fixed an issue that erroneously displayed the warning 'rebar spacing does not meet flexural min, T&S min, or strength requirements'.
- Analysis:
    - Improved the check for the tensile strain in steel by considering a more accurate reinforcement location within the slab.
    - Corrected the calculation for compression capacity of piles to consider the maximum axial strength (Pn,max) per the ACI code.

- Interaction:
    - Added the ability to transfer Response Spectra Analysis (RSA) results from RISA-3D to RISAFoundation.
    - Added the ability to recover a file if the model file closes unexpectedly while integrating with other programs.
    - Resolved an issue where custom detail reports were not retained in the original program after using the Director tool to integrate between multiple programs.
    - Resolved an issue where connection forces were not properly transferred from RISA-3D into RISAConnection when the model originated in RISAFloor.