Release Notes for RISAFoundation 3.1

Version 3.1.0 Enhancements/Corrections

- Pile Cap Enhancements
    - Added the ability to consider soil overburden.
    - Added the ability to account for torsional shear in piles in pile caps.
    - Added the ability to add a pile location tolerance for piles in a pile cap.
    - Added DXF Export capability.
- Added ACI 318-08 Concrete code.
- Moved the definition of the yield strength of the reinforcement (Fy) from the Design Rules spreadsheet to the concrete tab of the materials spreadsheet.
- This could result in reduced backwards compatibility of Concrete Materials with older versions of the program.
- Added back in the ability of the program to launch in "Demo Mode" when a license is not detected. Feature now requires the creation of a Demo sub-folder.
- Added a feature to report the stability ratio for slabs subjected to overturning moments (Overtruning moment safety factor).
- Added buttons/icons for pile and pile cap display.
- Added DXF export of piles and pile caps.
- Added a Warning Log message when the pile cap thickness does not meet the minimum thickness requirements of the Canadian or Saudi Concrete codes.
- Corrected an issue where the "save as defaults" was not working for footing data.
- Corrected an issue where RISAFoundation could inadvertently remember internally generated spring constants.
- Corrected an issue where the Pile Results spreadsheet was not displaying the proper joint label for models originated in RISA-3D.

Version 3.1.1 Enhancements/Corrections

- Tabulated the soil bearing results browser to separately summarize the bearing results separately for each slab, grade beam or footing.
- Added the graphical display of soil bearing results for footings and grade beams to the main graphical model view.
- Updated the Assign Support Type dialog to make it easier to use.
- Added the "Solve Batch" button to the load combinations spreadsheet.
- Improved the processing time for the creation of results browsers or flat file printing.
- Added the ability to generate "ring" foundations using the circular slab generator.
- Fixed an issue where the punching shear calculation for individual piles always used the properties of the first material in the Materials spreadsheet.
- For the Canadian code, added the strain value used for the calculation of Beta in the shear capacity calculation to the detail reports for grade beams and design strips/cuts.
- Changed the logic related to minimum slab reinforcement to address the rare case where flexural minimums will control over temperature / shrinkage.
- Updated the cover threshold for slabs to 40% instead of 25%. If your cover is greater than 40% of the slab depth then RISAFoundation will make the cover 40% of the slab depth.
- Updated the "d" for footings to be equal to the footing thickness minus cover minus (1) bar diameter. Previously we considered only 1/2 of the bar diameter. The new "d" is more conservative, as we do not know how the rebar mat will be placed.
- Corrected an issue with integrated RISA-3D/RISAFoundation models where the presence of Solid Elements would cause odd display issues with RISAFoundation graphical results.
- Fixed an issue with the "Slab Rebar at Mid-Depth" in slab design rules where the program would erroneously put in top bars.