# Release Notes for RISAFloor Version 3.0

## Version 3.0.1 Enhancements / Corrections

### *Enhanced General Design Features*

- Added Gravity Design of Wood, Concrete, and Cold Formed Columns
- Added Ability to Manage Column Stacks and Column Splices
- Added Ability to Change the Bottom Elevation of Columns to account for varying ground floor elevations
- Added Ability to Account for Edge Parapet Columns
- Greatly Modified/Enhanced the Column Results Browsers
- Added a Column Detail Report
- Added Ability to Apply User Design Rules to Column Members
- Added a Wall Results Browser

### *Enhanced Wood Design Features*

- Added Glu-Lam Design per the 2001 NDS

### *Enhanced Concrete Design Features*

- Added User Defined Reinforcement Layouts for Flexure and Shear for Both Beams and Columns
- Added New Zealand Concrete Design NZS3101 -1995
- Added Australian Concrete Design AS 3600 -2001

### *Enhanced Steel Design Features*

- Added New Zealand Hot Rolled Steel Design NZS 3404-1:1997
- Added Australian Hot Rolled Steel Design AS 4100-1998
- Added US Cold Formed Steel Design AISI 2001
- Added Mexican Cold Formed Steel Design AISI 2001/CANACERO
- Added Canadian Cold Formed Steel Design AISI 2001/CSA S136-01
- Added New Hot Rolled Steel Shapes per the LRFD 3rd Edition Manual
- Added New AISI and SSMA Shapes per the AISI 2001 Manual
- Added support for Back to Back CS and CU channels
- Added support for Front to Front CS and CU channels
- Corrected bug in the steel joist design related to the application of negative loads

### *Enhanced Analysis Features*

- Improved Lateral Wall Meshing in RISA-3D
- Improved Vibration Calculations to Account for the Girder Panel Mode Weights that are lost directly into column supports
- Added the infrastructure for switching between Skyline and Sparse solvers

### *Enhanced Loading Features*

- Added Load Combination Generation Options

- Added California Building Code (CBC 2001) to Seismic Load Generator
- Added Ability to Specify a 'Base Elevation' for Seismic Load Generation to account for sloped sites and/or basements
- Added Ability to Specify a 'Base Elevation' for Wind Load Generation to account for sloped sites and/or basements
- Added Ability to Account for Edge Parapet Columns for Wind Load Generation
- Added Ability to Generate Code Specific Load Combinations from a User Editable XML File
- Improved Load Attribution Routine to Eliminate Polygon Errors
- Improved Load Attribution Routine to Handle Most Cases with 'Concave Circuits'
- Corrected bug with 2 way load attribution
- Corrected bug with the attribution of tapered loads to slab edges
- Corrected problem with area load attribution related to the application of negative area loads

### *Enhanced Graphics and Drawing Features*

- Added Dynamic Zoom, Pan, and Rotate to All Model View Windows
- Added Ability to Generate Infill Beams in a 'Concave Circuit'
- Added a Hot Key Command (F5) to Call Up a Distance Measuring Tool
- Added Expanded Font Control in Tools - Preferences
- Accelerated Model Rendering - Up to 5x Faster
- Added Translucent Plate and Member Rendering and Member Diagram Graphics
- Corrected Graphical Display of Lcomp-top and Lcomp-Bottom. They now display "segment" rather than "-2" when the segment command is used for the beam.

### *Enhanced Interaction with Other Software*

- Linked to Revit Structure
- Added Ability to Import Walls from a DXF File
- Added link to RISAFoundation

### *Miscellaneous Enhancements / Corrections*

- Added Registry Entry for User to Specify a Server List for License Management
- Modified Network Versions to Check Licensing Less Frequently than the Stand Alone Versions
- Corrected bug where the program was not recognizing that user took control of a center of mass node in RISA-3D by applying a joint load
- Corrected error in Diaphragm connectivity in 3D diaphragms related to re-entrant corners

### *Features Specific to the Indian Region*

- IS 456 : 2000 — Plain and Reinforced Concrete Code of Practice
- IS 800 : 1998 — Code of Practice for General Construction in Steel
- IS 875 (Part 3) : 1987 — Code of Practice for Design Loads (Wind Loads)
- IS 1893 : 2002 — Criteria for Earthquake Resistance Design of Structure
- Load Combinations can be automatically generated from the following codes:
    - IS 456 : 2000 — LSD (Collapse)
    - IS 456 : 2000 — LSD (Serviceability)
    - IS 1893 : 2002 — LSD
    - IS 875 (Part 5) : 1987 — WSD
- Added Pre-Generated Indian Materials:

- Standard Indian Concrete Materials (M15, M20, etc.)
- Standard Indian Steel Materials (Fe-410, Fe-570, etc.)