

December 2007, Issue No. Nine

Welcome back to **INSIDE BUILD-MASTER !**

Computer Aided Building Design methods have come a long way from Continuous Beam Analysis Programs, Plane Frame Analysis to Space Frame Analysis, and Design of Individual Components to Automated Floor Designs programs.

It spite of the programs available, when it comes to finalizing the Number and Diameter of Reinforcement bars to be provided in RCC Beams, one has to refer to the floor plan and design outputs repetitively. Some designers write values of Area of Bars required at various positions in beams on the floor plan drawings, before providing the steel bars. This is a good practice especially when the design prepared by a junior engineer is to be checked by the senior person in an organization.

Ensoft has introduced a new feature in latest Version of Build-Master 2005; dated **August 2007**, for displaying RCC Design Schedule data of beam, slab, column and footings on plan layout itself. This utility will now display the reinforcement bar details, i.e. Numbers, Diameter and Spacing of bars of design output on the single line floor plan. Forces and moments can also be displayed on the plan along-with the required bar areas.

A new menu '**Modify Schedule Using Plan Layout**' is added in Build-Master. In earlier versions, design schedule can be either edited by Tree like Edit Control or Tabular Grid Control menu. Number and Diameter of bars to be provided can now be edited directly on the plan layout itself. Changes made will be saved in database files and Design Schedule drawings updated automatically. This utility will not only eliminate repetitive reference to the floor plans & design schedules, but also save valuable time of the designers.

The procedure for using this exciting new feature is highlighted here in brief.

Editing Column Design Outputs on Plan Layout

Ensoft Build-Master 2005 - [Project View : C:\Bm2005Projects\BUL9\BUL9.frm]

Project Floor Frames Tools Utilities View Window Help

Select Floor...
 Input Plan
 Edit Plan Data
 Plan Drawings
 Grid Analysis
 RCC Design
 Modify Schedule
 Estimate
 Schedule Drawings

Beam
 Slab
 Column
 Footing

Using Tree Control
 Using Grid Control
 Using Plan Layout

Editing Column Reinforcement Steel Details

Column Design Data like Width, Depth, Main Bars, Area Required can be displayed at Selected Levels on Plan.

Column Loads & Moments can also be displayed on plan for easy grouping.

Show Column Data

Show Numbers:
 Beam Nos
 Slab Nos
 Column Nos
 Node Nos

Select Levels and Combinations:
 Multiple Levels
 Multiple Combinations
 Value Wise Groups(1-5)
 Levels... Combinations... 5

Show Column Data:
 Column Width
 Main Bars
 Axial Load
 Moment X
 Shear X
 Area Required
 Column Depth
 Links
 Conc. Grade
 Moment Y
 Shear Y
 Area Provided

Show data for selected Columns only

Select OK Cancel

BUL9 TYP Plinth X=24.560 Y=7.268

Ensoft Build-Master 2005 - [Column ScheduleEdit - BUL9-TYP]

File View Edit Settings Window Help

Column Size
 Main Reinforcement
 Link Reinforcement

6 CWxCD 230x450 MB 12 T16 AR 20.91	6 CWxCD 230x450 MB 8 T12 AR 8.28
5 CWxCD 230x450 MB 10 T16 AR 19.46	5 CWxCD 230x450 MB 8 T16 AR 10.56
4 CWxCD 230x450 MB 12 T16 AR 23.60	4 CWxCD 230x450 MB 12 T16 AR 20.91
3 CWxCD 230x450 MB 16 T16 AR 24.84	3 CWxCD 230x450 MB 16 T16 AR 29.19
2 CWxCD 230x450 MB 16 T16 AR 31.26	2 CWxCD 230x500 MB 16 T20 AR 32.43
1 CWxCD 230x450 MB 16 T16 AR 29.19	1 CWxCD 230x600 MB 16 T20 AR 33.40
1 CL 96.840 Mx 0.000 My 2.050	1 CL 173.960 Mx 0.000 My 0.000
2 CL 79.910 Mx 0.000 My 3.030	2 CL 142.410 Mx 0.000 My 0.000
3 CL 63.440 Mx 0.000 My 3.080	3 CL 112.760 Mx 0.000 My 0.000
4 CL 47.330 Mx 0.000 My 3.240	4 CL 84.190 Mx 0.000 My 0.000
5 CL 31.450 Mx 0.000 My 3.250	5 CL 56.390 Mx 0.000 My 0.000
6 CL 15.850 Mx 0.000 My 4.360	6 CL 29.570 Mx 0.000 My 0.000
6 CWxCD 230x450 MB 16 T16 AR 25.05	6 CWxCD 230x450 MB 8 T16 AR 12.63
5 CWxCD 230x450 MB 10 T16 AR 19.25	5 CWxCD 230x450 MB 8 T16 AR 12.83
4 CWxCD 230x450 MB 12 T16 AR 22.56	4 CWxCD 230x450 MB 10 T16 AR 18.01
3 CWxCD 230x450 MB 12 T16 AR 22.36	3 CWxCD 230x450 MB 16 T16 AR 25.05
2 CWxCD 230x450 MB 12 T16 AR 22.98	2 CWxCD 230x450 MB 16 T16 AR 29.19
1 CWxCD 230x450 MB 16 T16 AR 25.05	1 CWxCD 230x475 MB 16 T16 AR 30.81
1 CL 71.570 Mx 0.870 My 1.620	1 CL 134.520 Mx 1.160 My 0.000
2 CL 60.530 Mx 1.350 My 2.400	2 CL 112.380 Mx 1.840 My 0.000
3 CL 48.800 Mx 1.510 My 2.450	3 CL 90.220 Mx 2.090 My 0.000
4 CL 36.710 Mx 1.690 My 2.590	4 CL 67.890 Mx 2.360 My 0.000
5 CL 24.350 Mx 1.680 My 2.600	5 CL 45.480 Mx 2.360 My 0.000
6 CL 11.620 Mx 2.740 My 3.540	6 CL 23.040 Mx 3.820 My 0.000

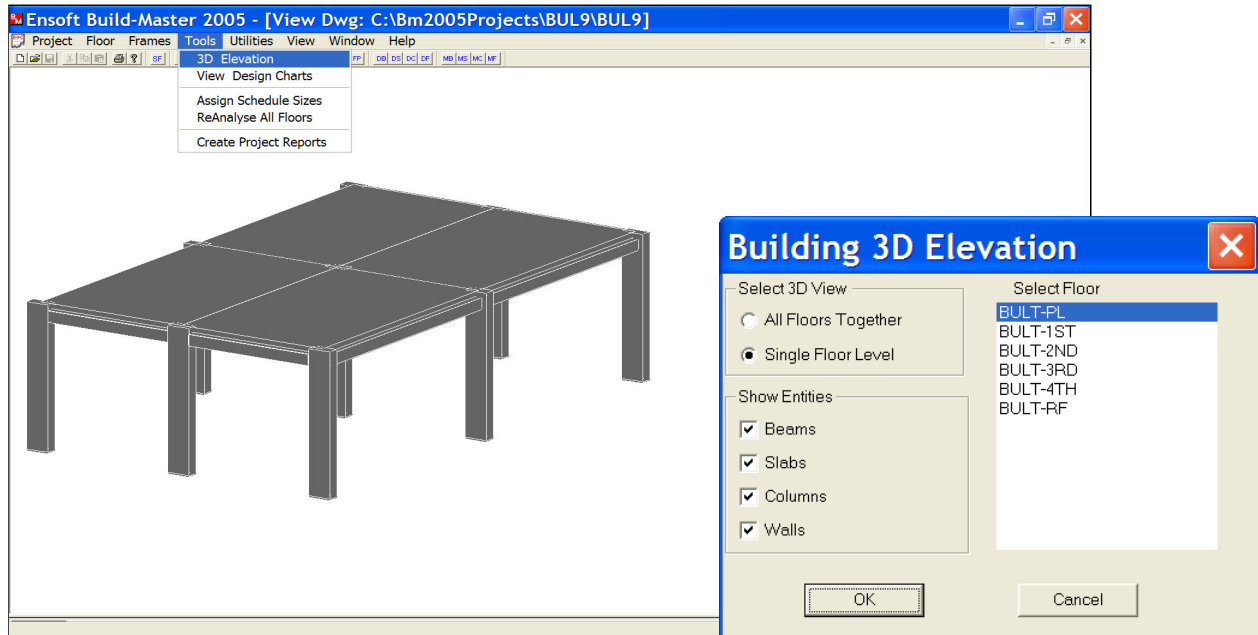
Ready Dimension : m Distance : mt X=0.749 Y=4.648

X= BUL9 TYP Plinth X=4.778 Y=7.190

Column Sizes & Steel Bar Details can be Edited at Multiple Levels on Plan

Floor wise 3D Elevation

In earlier version schematic 3D elevation of the Building was being generated for all the floors together. It was cumbersome to view details of the individual floors then. But now in this new version, 3D elevation can be generated for a single floor as well. Data checking of wall heights & thicknesses, beam & column sizes and slab thicknesses has become easier, since these entities can be viewed one by one.



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