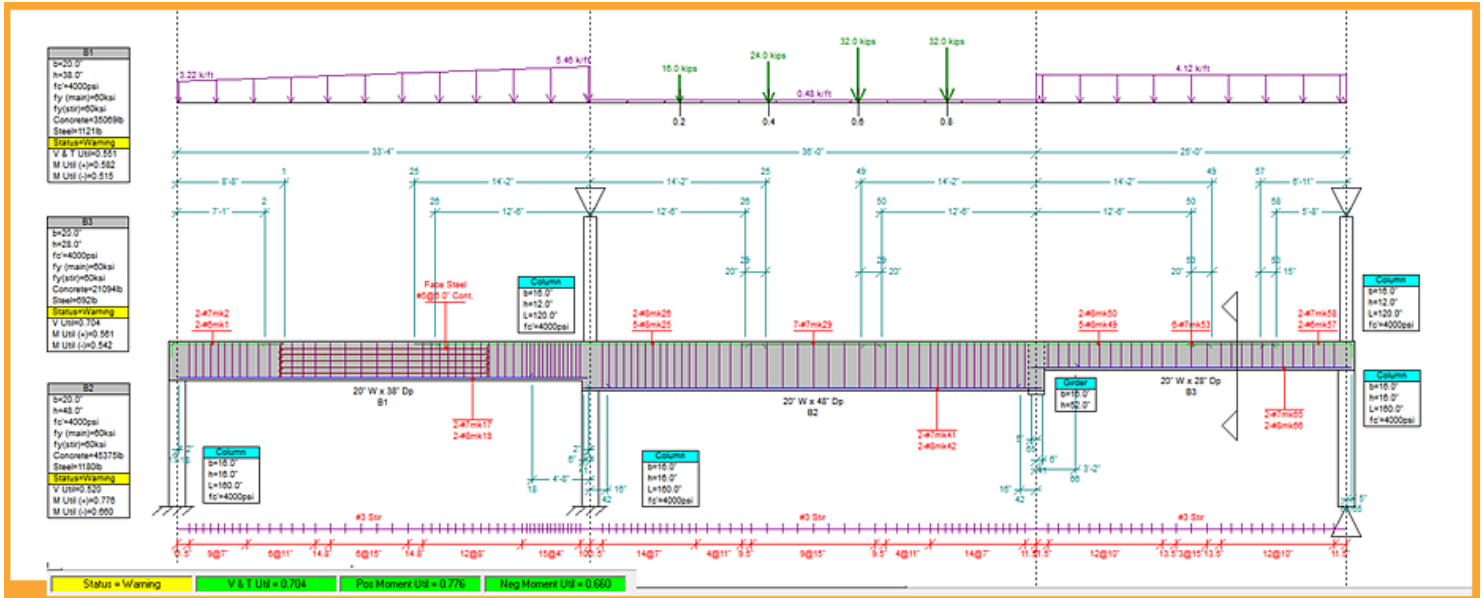
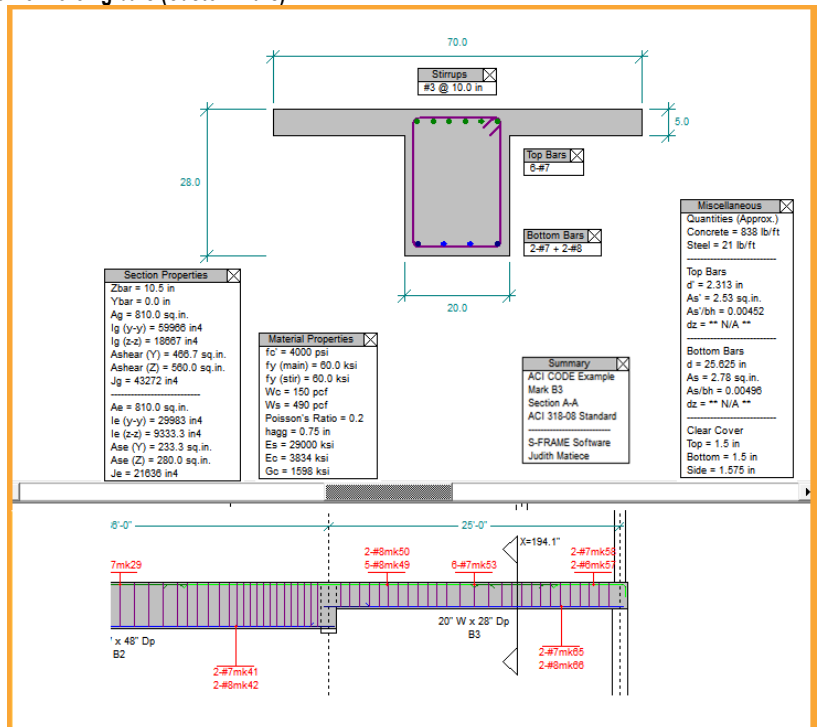


Code check, Auto-Design and Detail Continuous Concrete Beams having Varying Sections.

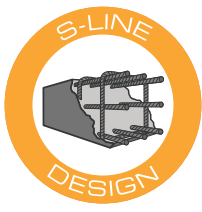


Beam Elevation View

- Easy, intuitive interface - simply drag lines to change dimensions or click on hot-spots to change reinforcing.
- Support for ACI 318-08, 05, 02, & 99, CSA A23.3-04 & 94, BS 8110:1997 & 1985, CP 65:1999.
- Support for fiber-reinforced concrete beams (ACI 318-08 only) and minimum shear reinforcing requirements.
- American, British, Canadian, Korean, Singaporean, or define your own set of reinforcing bars (Custom Bars).
- Design of T-beams, L-beams, slab bands and rectangular beams.
- Rectangular and circular columns as well as girder supports.
- Standard and user defined reinforcing styles are available.
- Combined moment, shear and torsion design for all codes.
- CSA-A23.3 simplified or general method of shear and torsion design.
- Automatic generation of pattern loading and load combinations .
- Apply moment redistribution.
- Apply distributed or concentrated vertical and torsional loads.
- Apply distributed or concentrated vertical and torsional loads to members.
- Apply moment redistribution to check for adequate rotational capacity
- Automatic design with beam section and/or reinforcement optimization.
- Choose a variety of reinforcing styles to serve as a guideline.
- Automatic generation of pattern loading and load combinations.
- Perform short and long term (cracked section) deflection estimation.
- Full graphical output including capacity envelopes on shear, moment and torsion diagrams.
- View Results Report (displaying status levels or code violations) and clause references with on-line help for details.
- Export to AutoCAD® and Microsoft Word®.



Beam Section View



Reinforcing Styles

Ok Help Reset Defaults Recall Styles Save Styles

Top Bars Bottom Bars Miscellaneous

Other Parameters

Lap Coefficient: 1.00 x Ld
 Short Span: 0.60 x L
 Rho (Gross): 0.0080

Bar Size: b / db 16.0
 Min: 0.625 in
 Max: 1.375 in

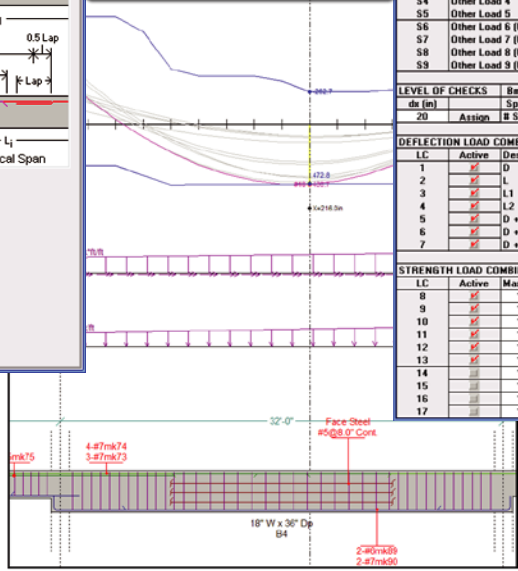
Bar Coating: Normal

Curtailment & Area Coefficients

k1	0.500	c1	0.333
k2	0.250	c2	0.667
k3	0.250	c3	N/A
k4	0.400	c4	0.167
k5	0.250		

Reinforcing Styles

Capacity Envelopes



Pattern Loading & Load Combinations

Load Cases and Combinations

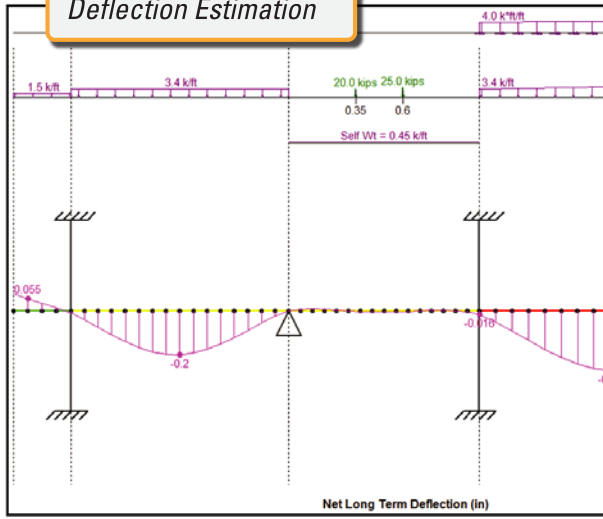
LOAD CASES	Definition	B1	B2	B3	B4	B5
D	Dead Load	✓	✓	✓	✓	✓
L	Full Live Load	✓	✓	✓	✓	✓
L1	Live Load 1	✓	✓	✓	✓	✓
L2	Live Load 2	✓	✓	✓	✓	✓
L3	Live Load 3	✓	✓	✓	✓	✓
L4	Live Load 4	✓	✓	✓	✓	✓
L5	Live Load 5	✓	✓	✓	✓	✓
L6	Live Load 6 (Use)	✓	✓	✓	✓	✓
L7	Live Load 7 (Use)	✓	✓	✓	✓	✓
L8	Live Load 8 (Use)	✓	✓	✓	✓	✓
L9	Live Load 9 (Use)	✓	✓	✓	✓	✓
S	Full Other Load	✓	✓	✓	✓	✓
S1	Other Load 1	✓	✓	✓	✓	✓
S2	Other Load 2	✓	✓	✓	✓	✓
S3	Other Load 3	✓	✓	✓	✓	✓
S4	Other Load 4	✓	✓	✓	✓	✓
S5	Other Load 5	✓	✓	✓	✓	✓
S6	Other Load 6 (Use)	✓	✓	✓	✓	✓
S7	Other Load 7 (Use)	✓	✓	✓	✓	✓
S8	Other Load 8 (Use)	✓	✓	✓	✓	✓
S9	Other Load 9 (Use)	✓	✓	✓	✓	✓

LEVEL OF CHECKS	Span (in)	B1	B2	B3	B4	B5
db (in)	84	320	280	384	84	84
20	Assion	8 Stations	5	17	17	5

DEFLECTION LOAD COMBINATIONS (Service Loads)	LC	Active	Description	Deflection Limits	Max (in)		
2	✓	✓	D	Immediate Deflection	Span / 360	1.00	
3	✓	✓	L1	Immediate Deflection	Long Term	Span / 480	1.00
4	✓	✓	L2	Immediate Deflection			
5	✓	✓	D + L	Long Term Net Deflection	Partition Installation		
6	✓	✓	D + L1	Long Term Net Deflection	Alter	1 in	
7	✓	✓	D + L2	Long Term Net Deflection	(Long Term Deflection Only)		

STRENGTH LOAD COMBINATIONS (Factored Loads)	LC	Active	Max Dead Load	Loaded Live Spans	Min Dead Load	Loaded Other Spans
8	✓	✓	1.20	x D + 1.60 x L + 1.20 x D + 0.00 x S	1.20	x D + 0.00 x S
9	✓	✓	1.20	x D + 1.60 x L1 + 1.20 x D + 0.00 x S1	1.20	x D + 0.00 x S1
10	✓	✓	1.20	x D + 1.60 x L2 + 1.20 x D + 0.00 x S2	1.20	x D + 0.00 x S2
11	✓	✓	1.20	x D + 1.60 x L3 + 1.20 x D + 0.00 x S3	1.20	x D + 0.00 x S3
12	✓	✓	1.20	x D + 1.60 x L4 + 1.20 x D + 0.00 x S4	1.20	x D + 0.00 x S4
13	✓	✓	1.20	x D + 1.60 x L5 + 1.20 x D + 0.00 x S5	1.20	x D + 0.00 x S5
14	✓	✓	1.20	x D + 1.60 x L6 + 1.20 x D + 0.00 x S6	1.20	x D + 0.00 x S6
15	✓	✓	1.20	x D + 1.60 x L7 + 1.20 x D + 0.00 x S7	1.20	x D + 0.00 x S7
16	✓	✓	1.20	x D + 1.60 x L8 + 1.20 x D + 0.00 x S8	1.20	x D + 0.00 x S8
17	✓	✓	1.20	x D + 1.60 x L9 + 1.20 x D + 0.00 x S9	1.20	x D + 0.00 x S9

Deflection Estimation



Moment Redistribution

