

Lampiran 1. Rekapitulasi Hasil Analisis Numerik Struktur Jembatan Tipe Pratt

Beban	Camber 0%				Beban	Camber 1,17%				Beban	Camber 2,33%			
	δ struktur (mm)	Δ total (mm)	Fx Maks. (kg)			δ struktur (mm)	Δ total (mm)	Fx Maks. (kg)			δ struktur (mm)	Δ total (mm)	Fx Maks. (kg)	
			Tarik	Tekan				Tarik	Tekan				Tarik	Tekan
200	0,90	-0,90	297,45	341,46	200	0,91	69,10	297,30	341,31	200	0,91	139,09	297,24	341,25
400	1,53	-1,53	505,78	591,46	400	1,54	68,47	505,68	591,36	400	1,54	138,46	505,66	591,36
600	2,16	-2,16	714,12	814,46	600	2,16	67,84	714,05	841,41	600	2,17	137,83	714,09	841,47
800	2,79	-2,79	922,45	1091,46	800	2,79	67,21	922,43	1091,46	800	2,80	137,20	922,52	1091,59
1000	3,42	-3,42	1130,78	1341,46	1000	3,42	66,58	1130,80	1341,51	1000	3,44	136,57	1130,94	1341,70
1200	4,05	-4,05	1339,12	1591,46	1200	4,05	65,95	1339,18	1591,56	1200	4,07	135,93	1339,37	1591,81
1400	4,68	-4,68	1547,45	1841,46	1400	4,68	65,32	1547,55	1841,61	1400	4,70	135,30	1547,80	1841,92
1600	5,30	-5,30	1755,79	2091,46	1600	5,31	64,69	1755,93	2091,66	1600	5,33	134,67	1756,23	2091,03
1800	5,93	-5,93	1964,12	2341,46	1800	5,94	64,06	1964,30	2341,71	1800	5,96	134,04	1964,65	2342,15
2000	6,56	-6,56	2172,45	2591,46	2000	6,57	63,43	2172,68	2591,76	2000	6,59	133,41	2173,08	2592,26
2200	7,19	-7,19	2380,79	2841,46	2200	7,20	62,80	2381,05	2841,82	2200	7,23	132,77	2381,51	2842,37
2298,89	7,50	-7,50			2294,45	7,50	62,50			2286,85	7,50	132,50		
2400	7,82	-7,82	2589,12	3091,46	2400	7,83	62,17	2589,43	3091,87	2400	7,86	132,14	2589,93	3092,48

Lampiran 2. Rekapitulasi Hasil Analisis Numerik Struktur Jembatan Tipe Howe

[illegible]

Lampiran 3. Rekapitulasi Hasil Analisis Numerik Struktur Jembatan Tipe Warren

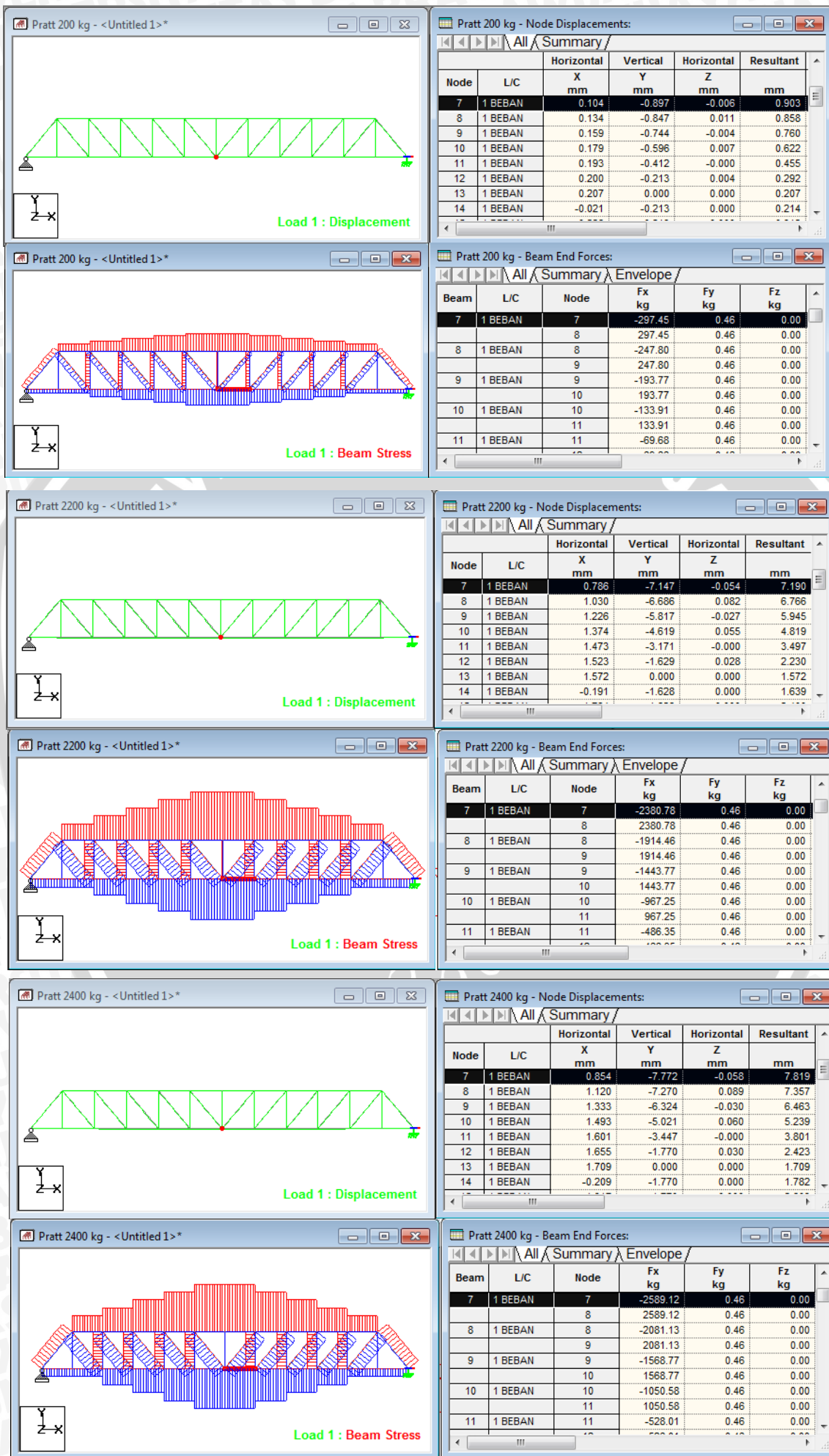
Beban	Camber 0%				Beban	Camber 1,17%				Beban	Camber 2,33%			
	δ struktur (mm)	Δ total (mm)	Fx Maks. (kg)			δ struktur (mm)	Δ total (mm)	Fx Maks. (kg)			δ struktur (mm)	Δ total (mm)	Fx Maks. (kg)	
			Tarik	Tekan				Tarik	Tekan				Tarik	Tekan
200	0,87	-0,87	297,36	341,46	200	0,88	69,12	297,37	341,45	200	0,88	139,12	297,40	341,48
400	1,48	-1,48	505,70	591,46	400	1,49	68,52	505,49	591,50	400	1,50	138,51	505,83	591,59
600	2,08	-2,08	714,03	841,46	600	2,09	67,91	714,12	841,55	600	2,11	137,89	714,25	814,70
800	2,69	-2,69	922,36	1091,46	800	2,70	67,30	922,49	1091,60	800	2,72	137,28	922,68	1091,82
1000	3,29	-3,29	1130,70	1341,46	1000	3,31	66,69	1130,87	1341,65	1000	3,33	136,67	1131,11	1341,93
1200	3,90	-3,90	1339,03	1591,46	1200	3,92	66,08	1339,24	1591,71	1200	3,94	136,06	1339,53	1592,04
1400	4,50	-4,50	1547,36	1841,46	1400	4,53	65,48	1547,62	1841,76	1400	4,56	135,45	1547,96	1842,15
1600	5,11	-5,11	1755,70	2091,46	1600	5,13	64,87	1755,99	2091,81	1600	5,17	134,83	1756,39	2092,27
1800	5,72	-5,72	1964,03	2341,46	1800	5,74	64,26	1964,37	2341,86	1800	5,78	134,22	1964,82	2342,38
2000	6,32	-6,32	2172,36	2591,46	2000	6,35	63,65	2172,74	2591,91	2000	6,39	133,61	2173,24	2592,49
2200	6,93	-6,93	2380,70	2841,46	2200	6,96	63,04	2381,12	2841,96	2200	7,00	133,00	2381,67	2842,61
2389,77	7,50	-7,50			2381,27	7,50	62,50			2362,75	7,50	132,50		
2400	7,53	-7,53	2589,03	3091,46	2400	7,56	62,44	2589,49	3092,01	2400	7,61	132,39	2590,10	3092,72

Lampiran 4. Rekapitulasi Hasil Analisis Numerik Struktur Jembatan Tipe K

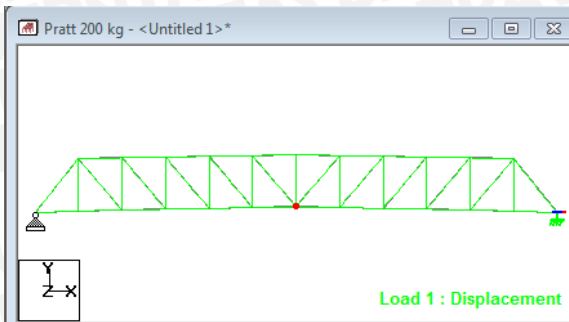
[illegible]

Lampiran 5. Analisis Numerik Struktur Jembatan Rangka Tipe Pratt

a. camber 0%

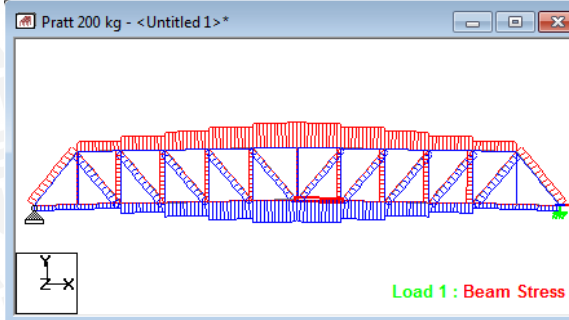


b. camber 1,17%



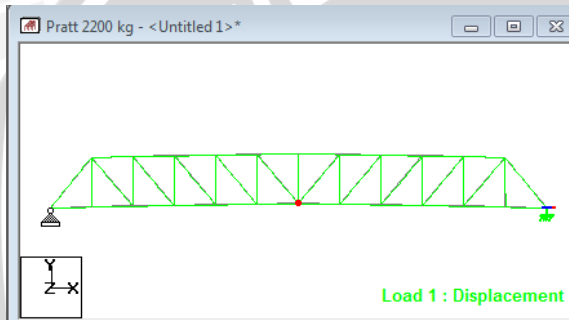
Pratt 200 kg - Node Displacements:

Node	L/C	Horizontal X mm	Vertical Y mm	Horizontal Z mm	Resultant mm
8	1 BEBAN	0.126	-0.896	-0.006	0.905
9	1 BEBAN	0.157	-0.846	0.011	0.861
10	1 BEBAN	0.185	-0.743	-0.004	0.766
11	1 BEBAN	0.207	-0.596	0.007	0.631
12	1 BEBAN	0.224	-0.412	-0.000	0.469
13	1 BEBAN	0.252	0.000	0.000	0.252
14	1 BEBAN	0.016	-0.215	0.004	0.215
15	1 BEBAN	0.237	-0.214	0.000	0.319



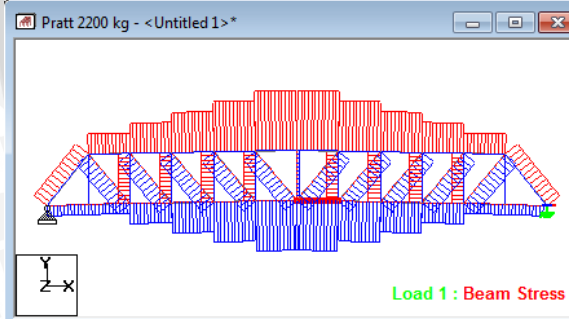
Pratt 200 kg - Beam End Forces:

Beam	L/C	Node	Fx kg	Fy kg	Fz kg
13	1 BEBAN	9	-297.30	0.46	0.00
		8	297.32	0.46	0.00
14	1 BEBAN	10	-247.66	0.46	0.00
		9	247.68	0.46	0.00
15	1 BEBAN	11	-193.65	0.46	0.00
		10	193.67	0.46	0.00
16	1 BEBAN	12	-133.82	0.46	0.00
		11	133.83	0.46	0.00
17	1 BEBAN	1	-69.64	0.46	0.00



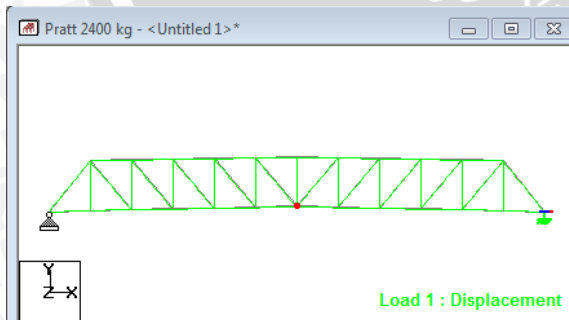
Pratt 2200 kg - Node Displacements:

Node	L/C	Horizontal X mm	Vertical Y mm	Horizontal Z mm	Resultant mm
8	1 BEBAN	0.963	-7.138	-0.054	7.203
9	1 BEBAN	1.216	-6.682	0.082	6.792
10	1 BEBAN	1.429	-5.816	-0.027	5.989
11	1 BEBAN	1.601	-4.621	0.055	4.891
12	1 BEBAN	1.723	-3.177	-0.000	3.614
13	1 BEBAN	1.925	0.000	0.000	1.925
14	1 BEBAN	0.115	-1.640	0.028	1.644
15	1 BEBAN	1.830	-1.638	0.000	2.457



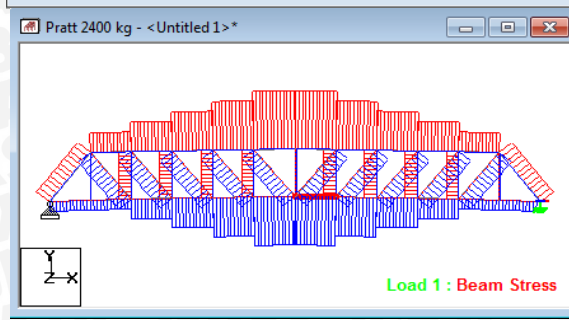
Pratt 2200 kg - Beam End Forces:

Beam	L/C	Node	Fx kg	Fy kg	Fz kg
13	1 BEBAN	9	-2381.05	0.46	0.00
		8	2381.07	0.46	0.00
14	1 BEBAN	10	-1914.66	0.46	0.00
		9	1914.68	0.46	0.00
15	1 BEBAN	11	-1443.90	0.46	0.00
		10	1443.92	0.46	0.00
16	1 BEBAN	12	-967.26	0.46	0.00
		11	967.28	0.46	0.00
17	1 BEBAN	1	-486.43	0.46	0.00



Pratt 2400 kg - Node Displacements:

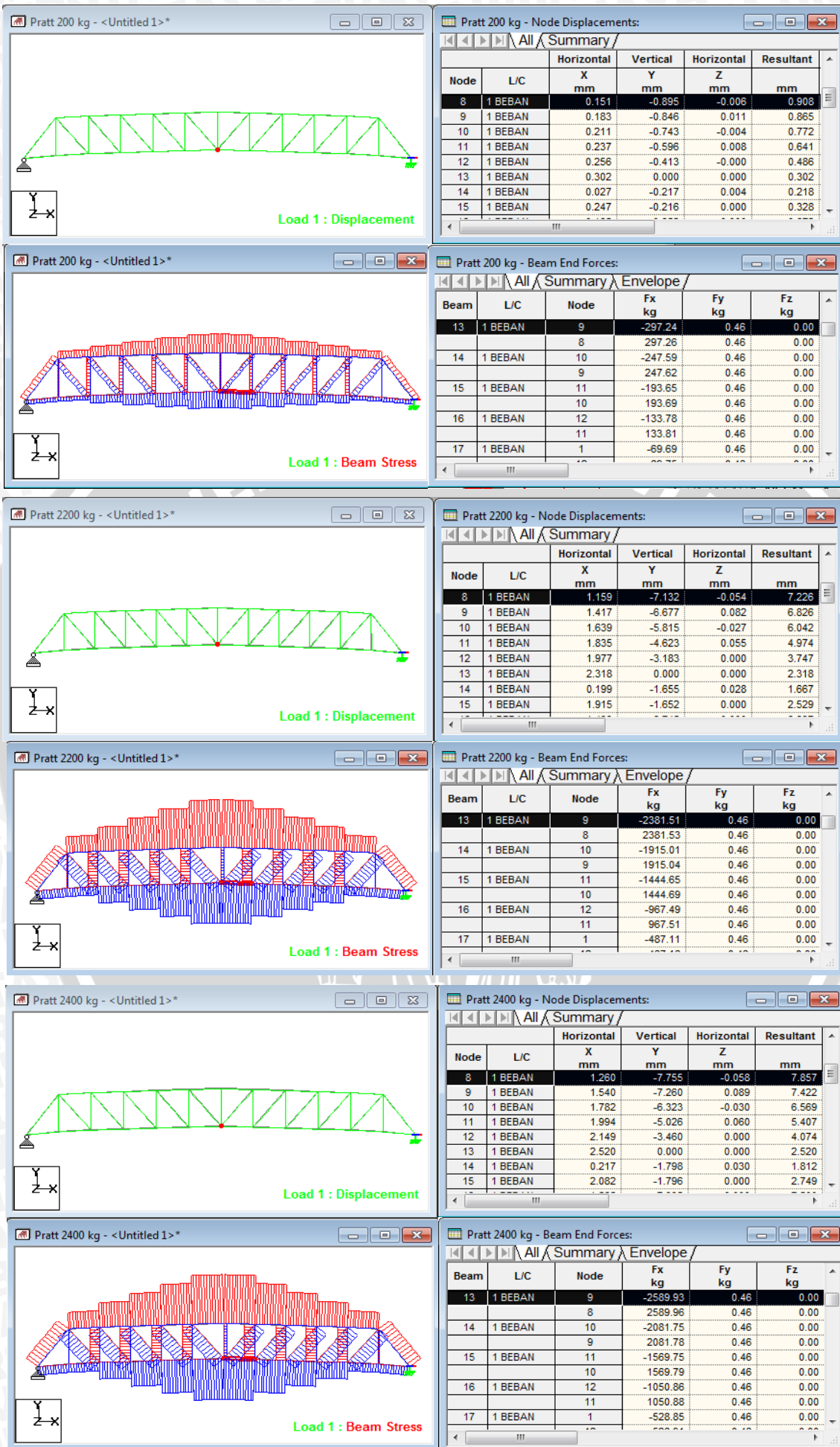
Node	L/C	Horizontal X mm	Vertical Y mm	Horizontal Z mm	Resultant mm
8	1 BEBAN	1.046	-7.762	-0.058	7.833
9	1 BEBAN	1.321	-7.265	0.089	7.385
10	1 BEBAN	1.553	-6.323	-0.030	6.511
11	1 BEBAN	1.740	-5.023	0.060	5.317
12	1 BEBAN	1.873	-3.454	-0.000	3.929
13	1 BEBAN	2.093	0.000	0.000	2.093
14	1 BEBAN	0.125	-1.782	0.030	1.787
15	1 BEBAN	1.990	-1.781	0.000	2.670



Pratt 2400 kg - Beam End Forces:

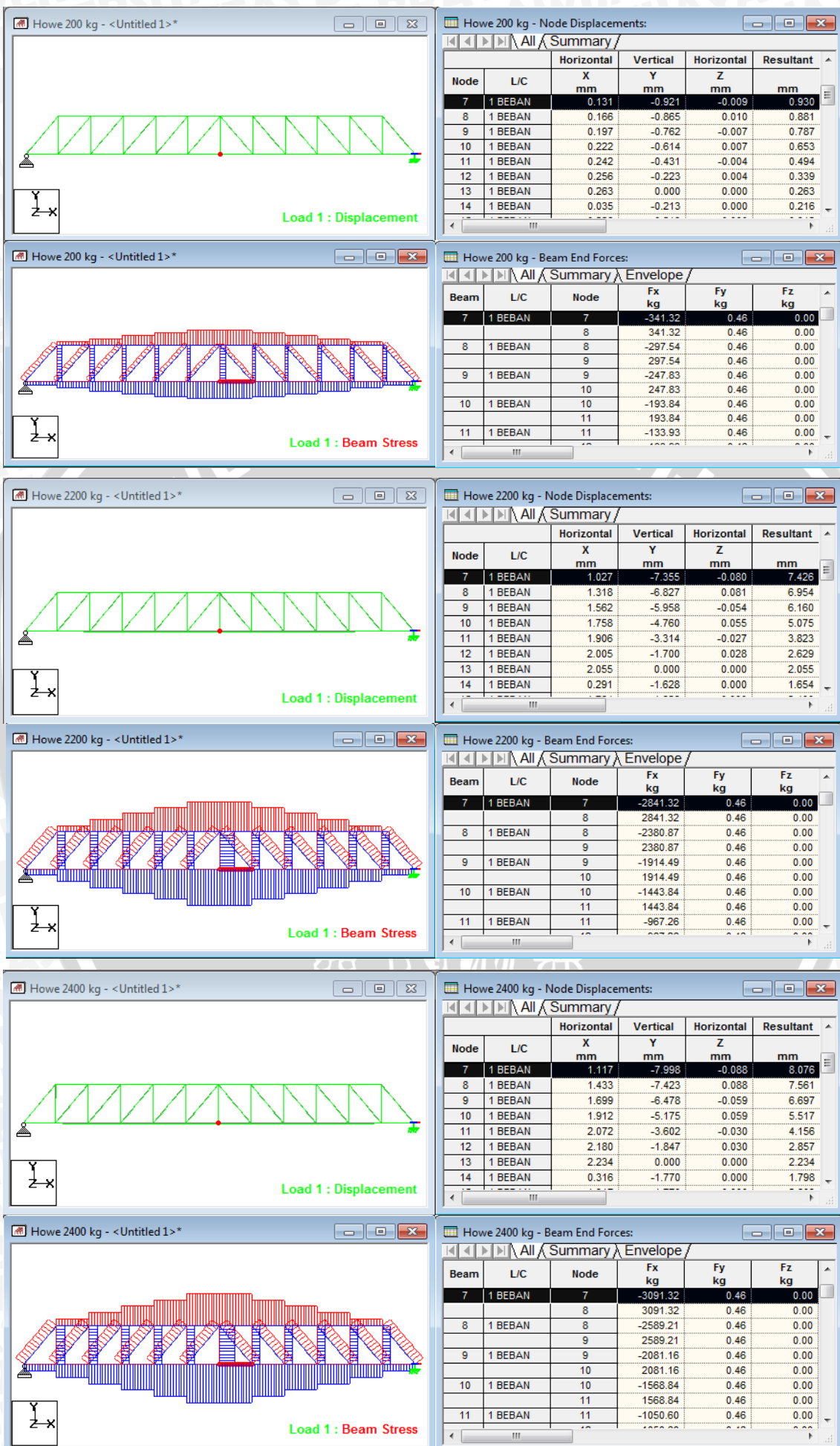
Beam	L/C	Node	Fx kg	Fy kg	Fz kg
13	1 BEBAN	9	-2589.43	0.46	0.00
		8	2589.45	0.46	0.00
14	1 BEBAN	10	-2081.36	0.46	0.00
		9	2081.38	0.46	0.00
15	1 BEBAN	11	-1568.93	0.46	0.00
		10	1568.95	0.46	0.00
16	1 BEBAN	12	-1050.61	0.46	0.00
		11	1050.62	0.46	0.00

c. camber 2,33%

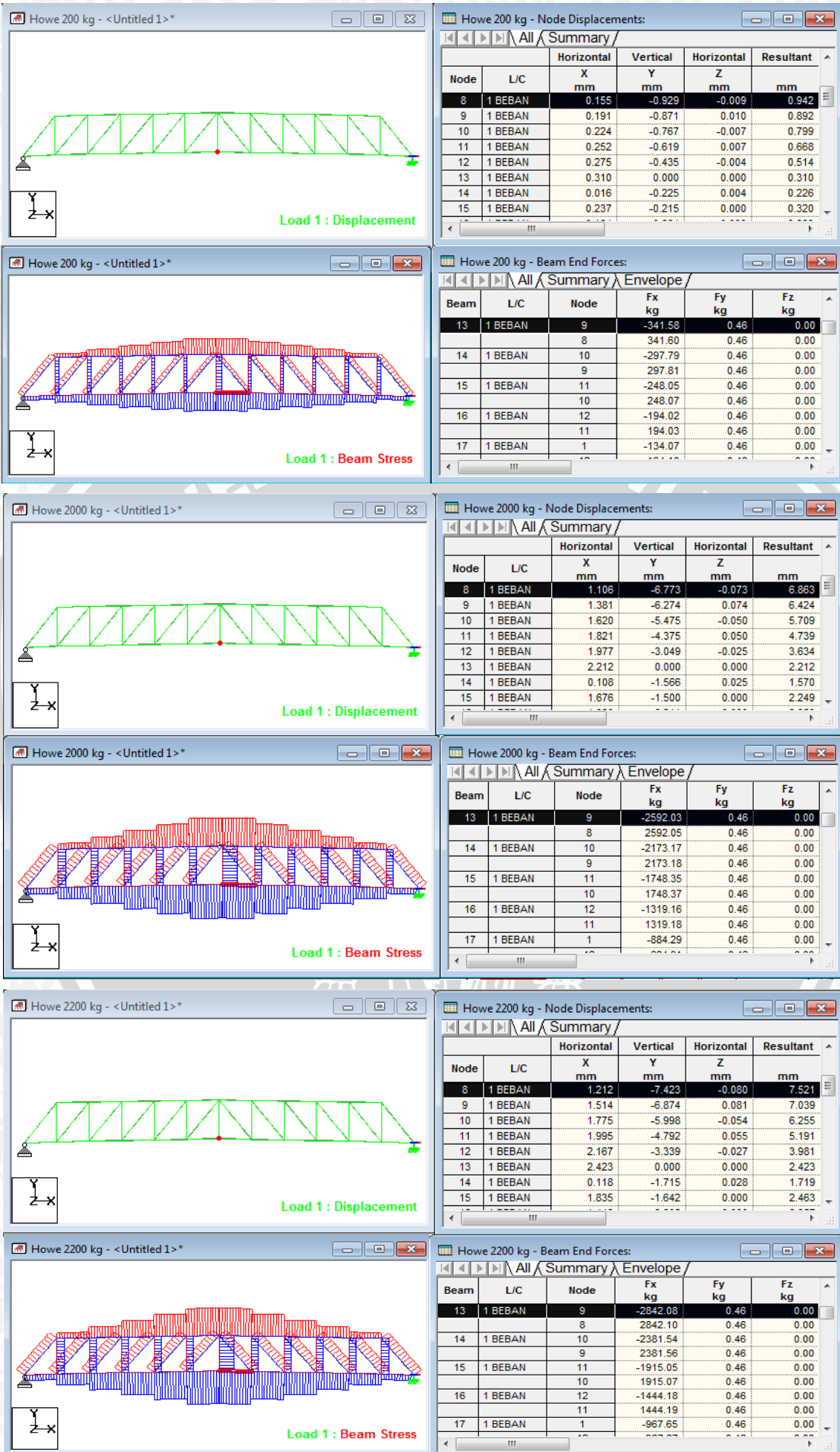


Lampiran 6. Analisis Numerik Struktur Jembatan Rangka Tipe Howe

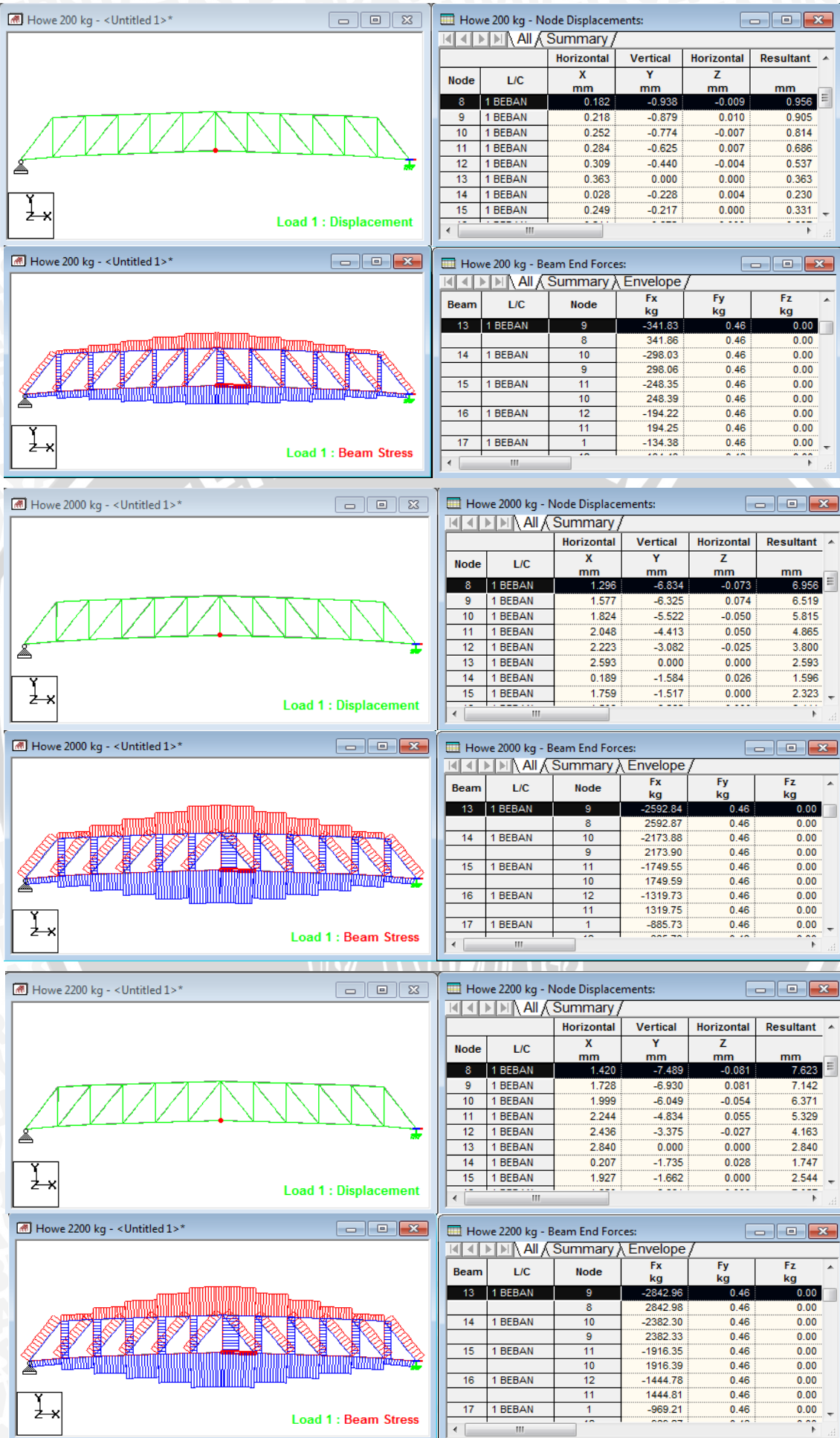
a. camber 0%



b. camber 1,17%

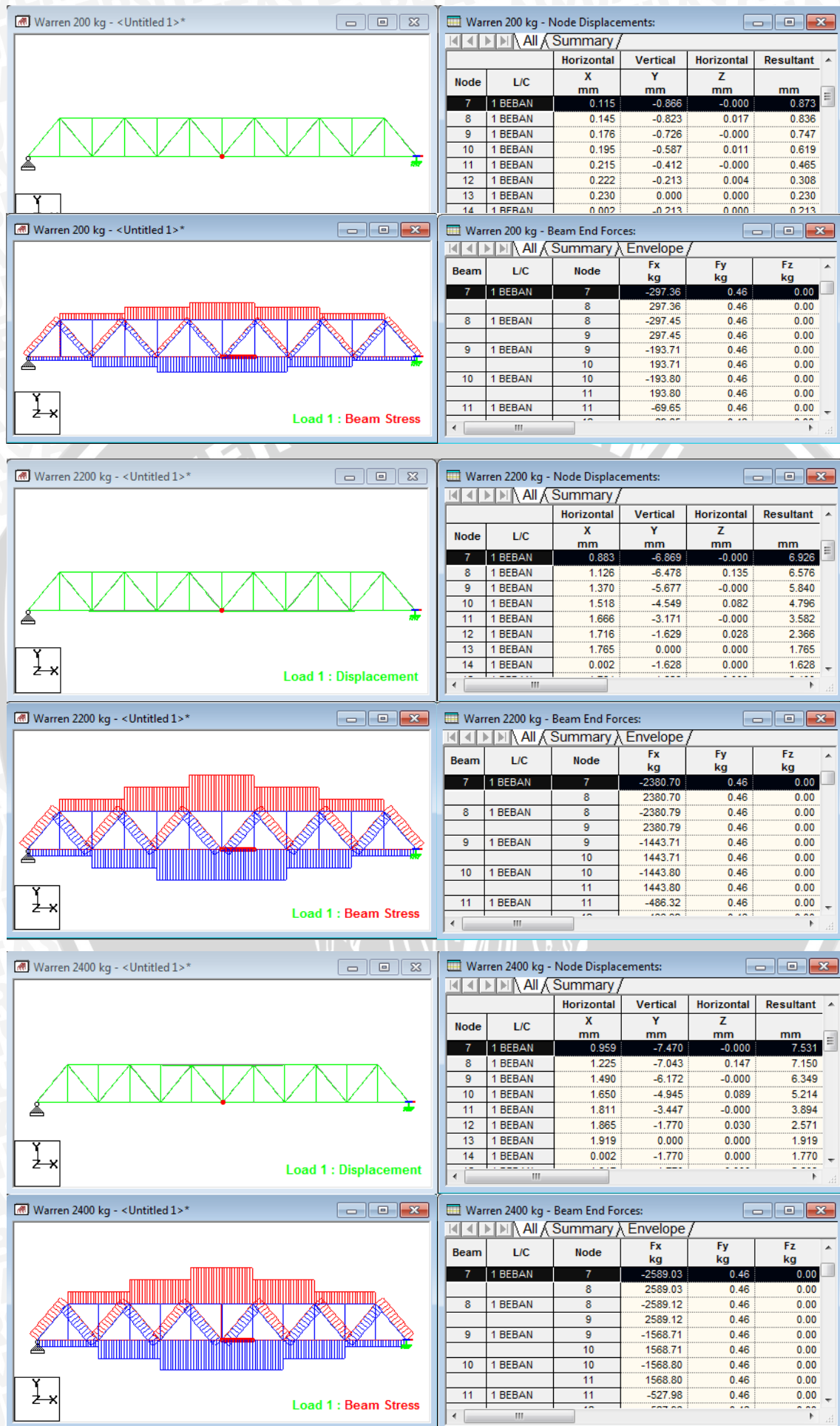


c. camber 2,33%

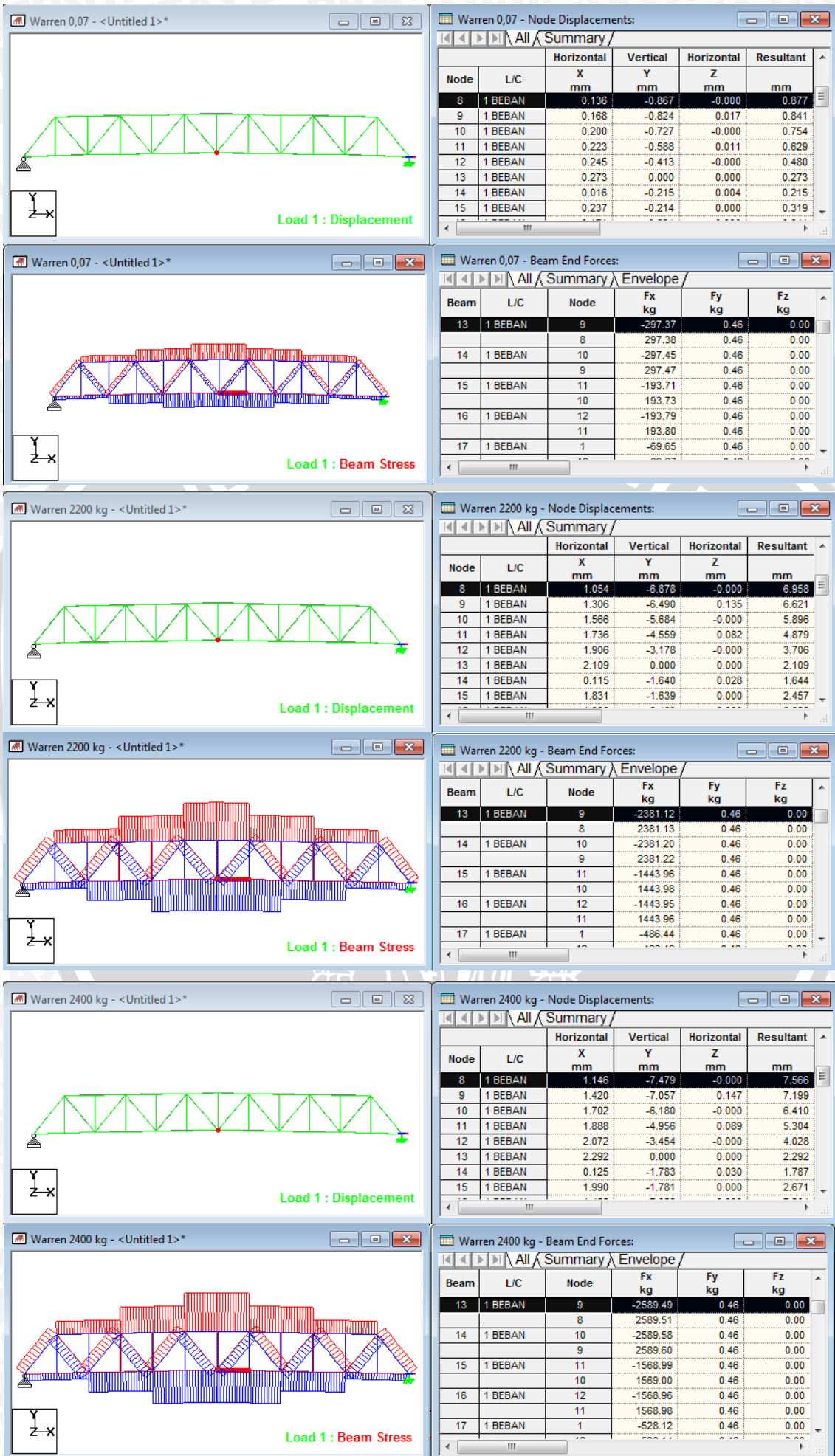


Lampiran 7. Analisis Numerik Struktur Jembatan Rangka Tipe Warren

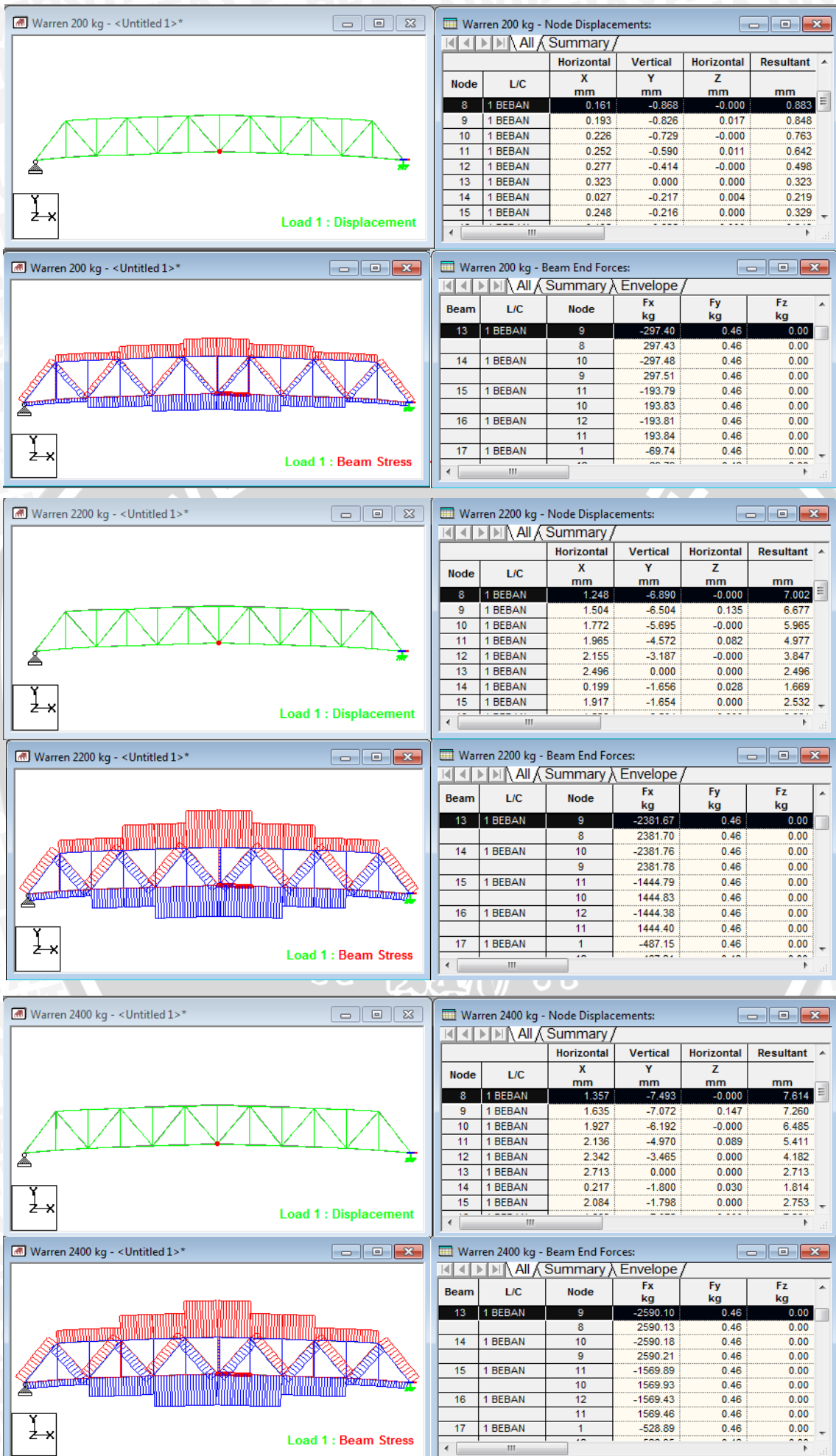
a. camber 0%



b. camber 1,17%

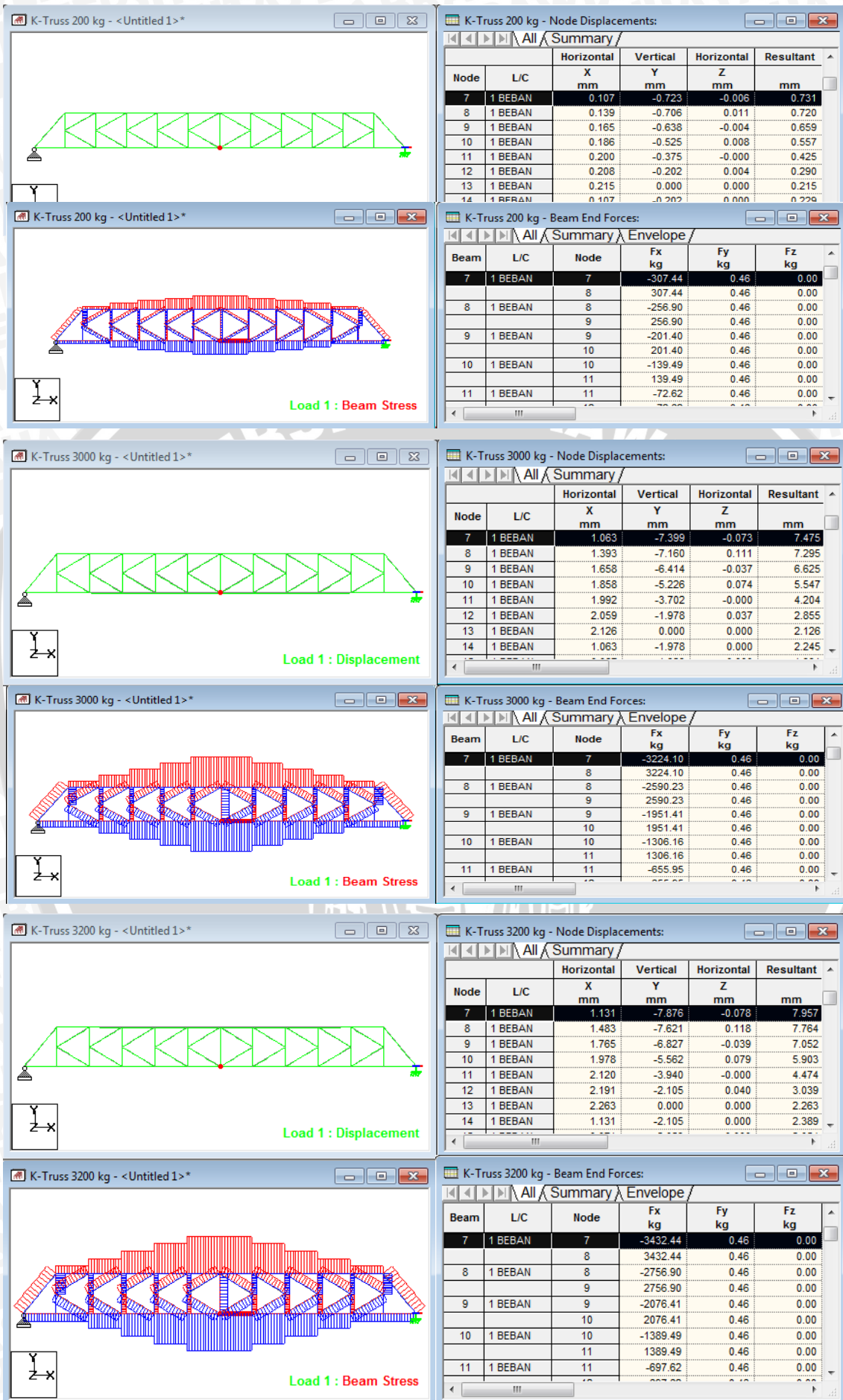


c. camber 2,33%

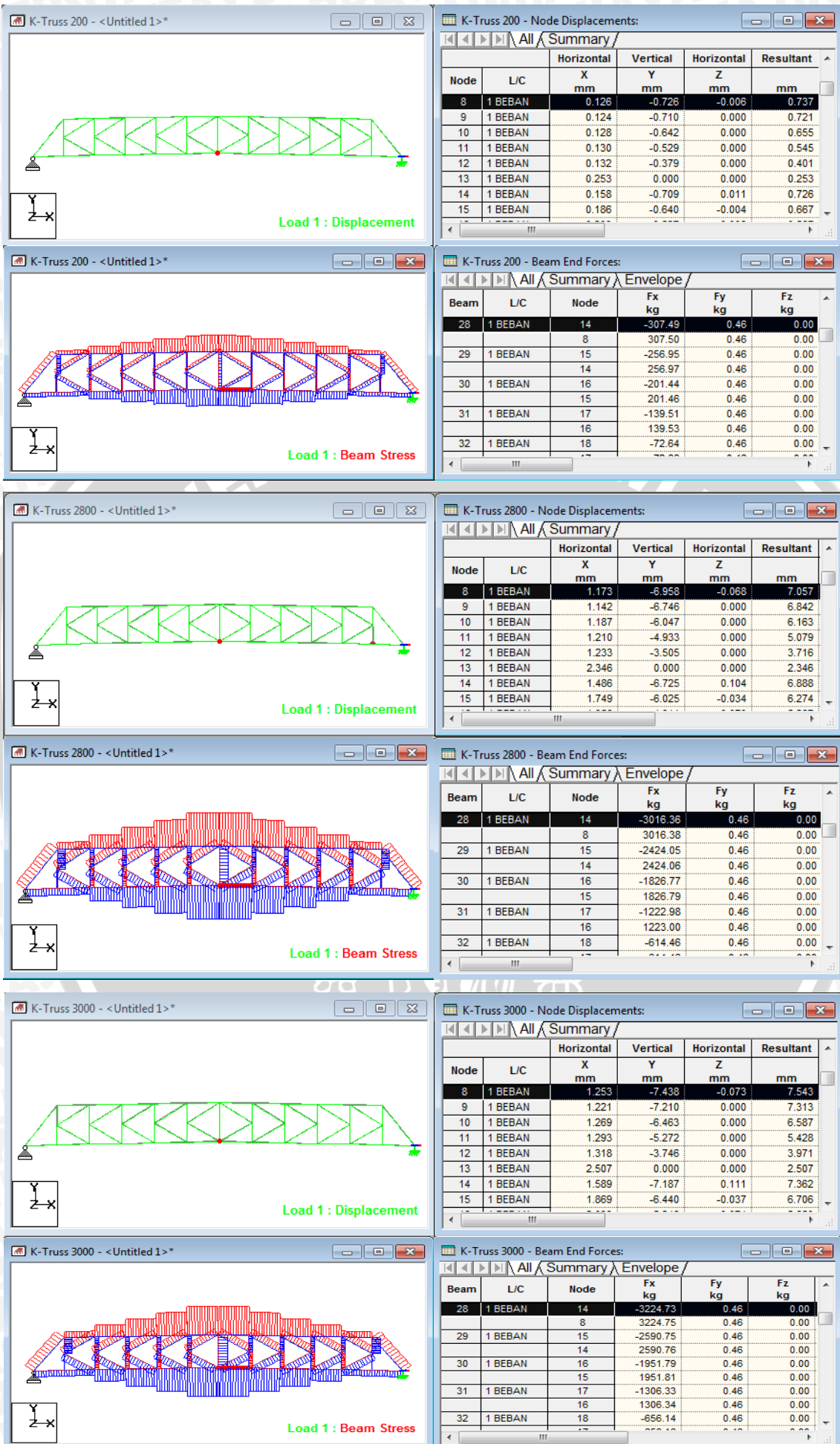


Lampiran 8. Analisis Numerik Struktur Jembatan Rangka Tipe K

a. camber 0%



b. camber 1,17%



c. camber 2,33%

