

BAB VI

KESIMPULAN DAN SARAN

VI.1. Kesimpulan

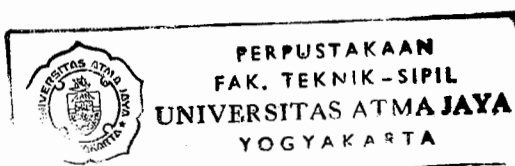
Selama penyusun menyelesaikan Tugas akhir ini, penyusun dapat menarik beberapa kesimpulan sebagai berikut :

Perencanaan struktur gedung dengan denah tidak beraturan tidak beda dengan perencanaan struktur gedung dengan denah simetris, tetapi dalam struktur gedung tidak beraturan harus dianalisis dengan metode tiga dimensi sehingga memerlukan *input* data pusat massa dan momen rotasi tingkat sedangkan untuk struktur gedung dengan denah simetri kurang diperlukan.

Pemakaian program komputer untuk membantu dalam proses analisis sangat efektif karena dapat menghemat waktu perencanaan dengan ketelitian yang cukup akurat.

Dengan *modelling structure* yang sederhana maka analisisnya juga menjadi lebih mudah dan dapat lebih cepat dalam eksekusi *software* SAP90.

Pada perancangan kapasitas, momen nominal aktual balok sangat berpengaruh pada perencanaan elemen-elemen yang lain. Maka jika dapat dirancang suatu balok secara optimal akan dapat menghemat biaya keseluruhan konstruksi.



Pengaruh beban-gempa sangat penting dalam perencanaan portal, ini dapat dilihat dari kombinasi pembebanan 5 dan 6 yaitu $U = 1,05 (D + L_R \pm E)$ yang paling berpengaruh.

VI.2. Saran-saran

Sebelum merencanakan suatu struktur gedung alangkah baiknya apabila kita tetapkan dulu metode dan program komputer yang akan kita pakai. Kemudian dipelajari dulu secara mendalam permodelan struktur yang akan kita pakai, efisiensi pemakaian *software* komputer dengan cara membaca buku atau bertanya kepada orang yang lebih mengerti.

Untuk memudahkan analisis, sebaiknya struktur digunakan siar dilatasi sehingga struktur dapat dianalisis secara statik ekuivalen.

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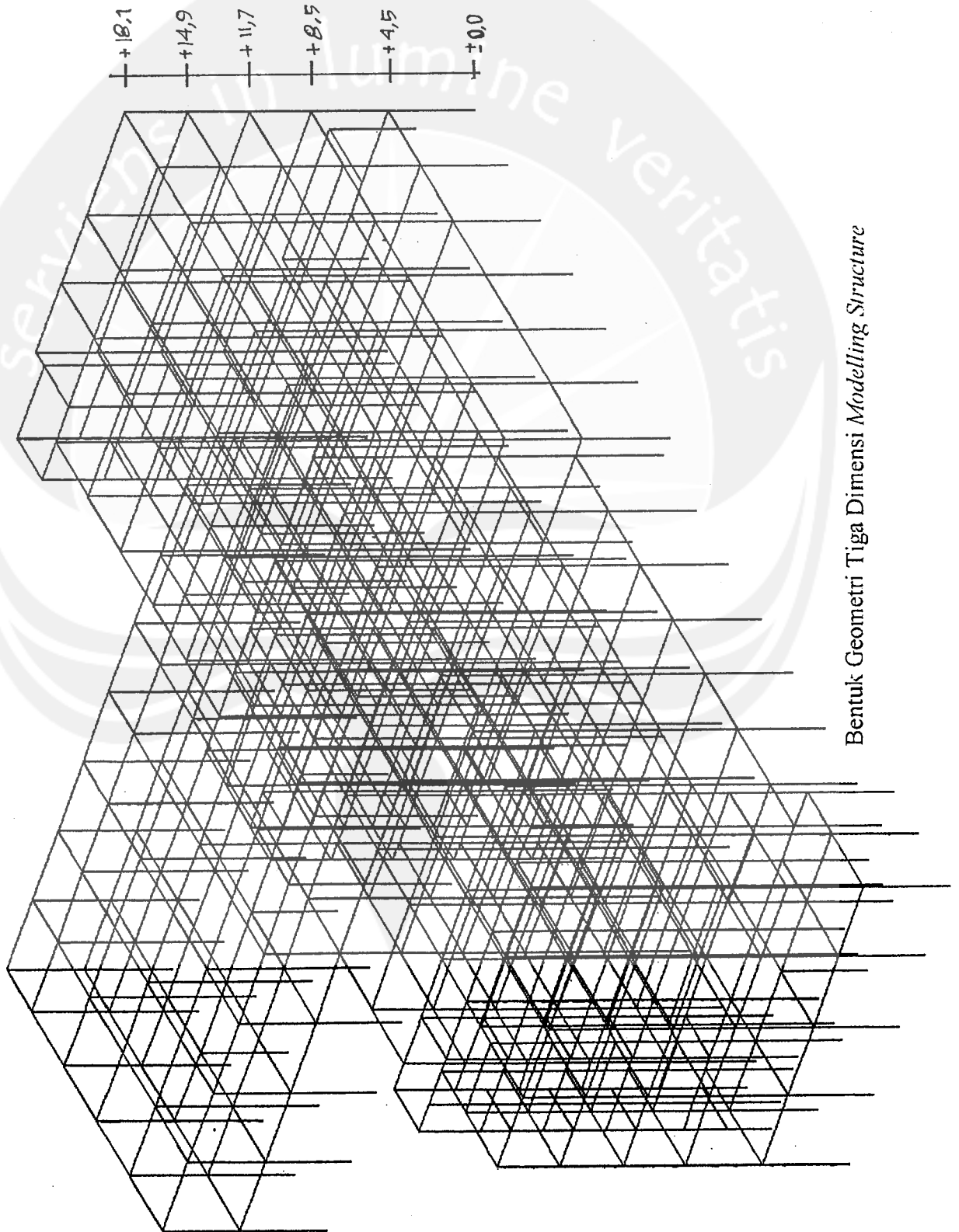
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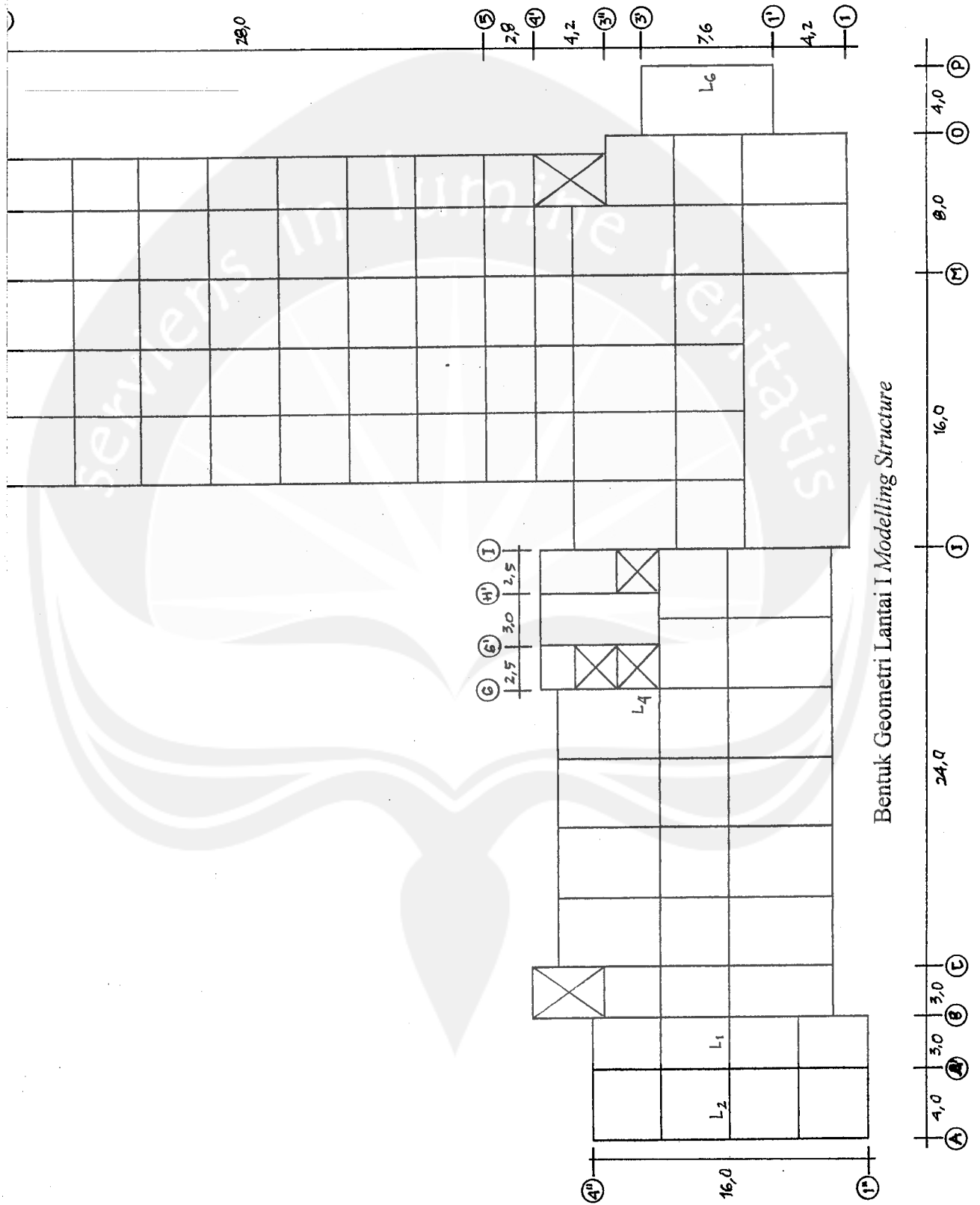
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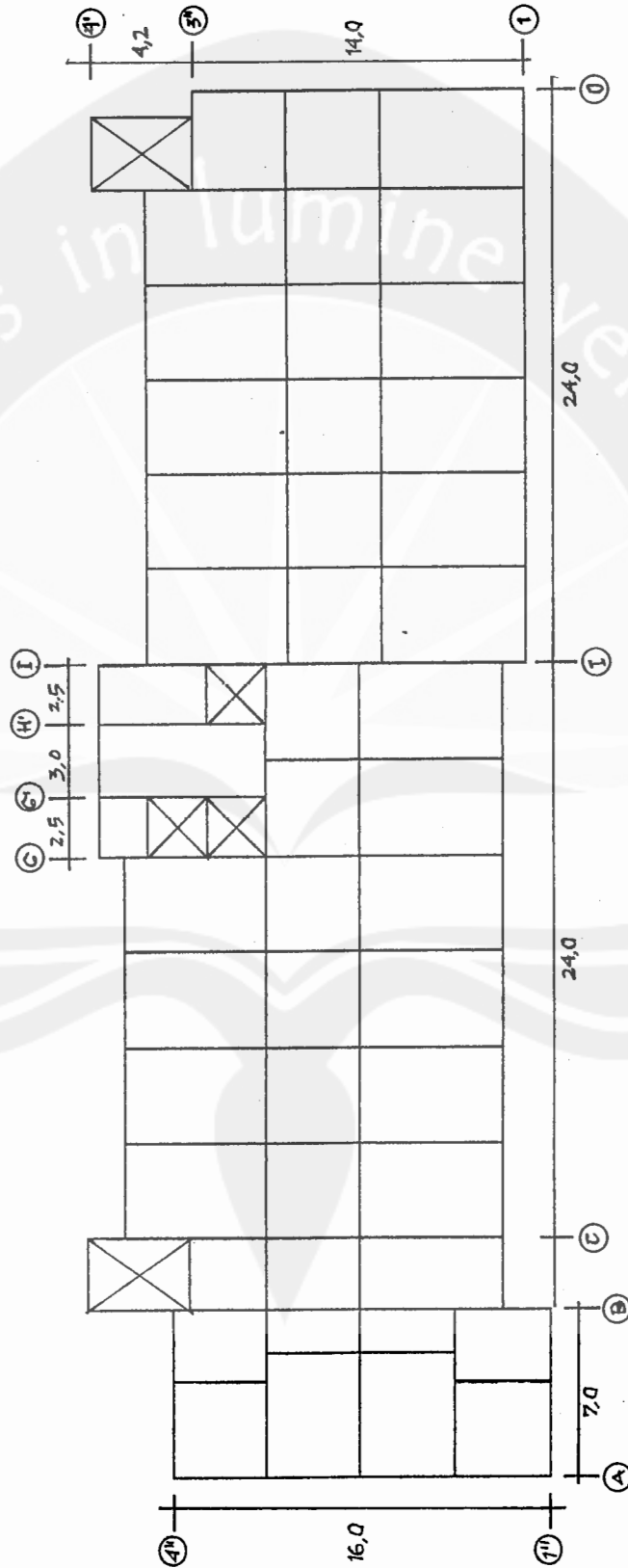
Gideon I.



Bentuk Geometri Tiga Dimensi Modelling Structure



Bentuk Geometri Lantai I Modelling Structure



Bentuk Geometri Lantai Atap - III Modelling Structure

Perencanaan Gedung Bertingkat Dengan Denah Berbentuk L

C Satuan yang dipakai adalah kN meter

C Data ini dibuat oleh Adi Sutjipto, PKS - 6095/TSS

C Universitas Atma Jaya Yogyakarta

SYSTEM

L=3 V=5

JOINTS

C *** Joint Roof ***

1	X=0	Y=0	Z=18.1	
2	X=4			
3	X=7			
4	X=7	Y=2		
5	X=10			
11	X=34			G=5,11,1
12	X=34	Y=1		
18	X=58			G=12,18,1
19	X=0	Y=4		
20	X=4			
21	X= 5.2			
22	X= 7			
23	X=0	Y= 8		
24	X= 5.2			
25	X= 7			F=4,14,1,1,21
40	X=0	Y=12		F=19,2,1,1,21
43	X= 7			F=4,5,1,1,39
49	X=28.5			
50	X=30			
51	X=31.5			
52	X=34			F=11,7,1,1,41
60	X= 7	Y=15.3		
61	X=10			
62	X=26	Y=14.5		
63	X=28.5			
64	X=31.5			
65	X=34			
66	X=54	Y=15		
67	X=57			
68	X=58			
69	X=26	Y=17		
70	X=28.5			
71	X=0	Y=16		F=1,2,1,1,70
74	X= 7	Y=18		F=4,5,1,1,70
80	X=34	Y=17		F=12,5,1,1,68
86	X= 7	Y=19.5		
87	X=10			
88	X=26	Y=19		
89	X=28.5			
90	X=31.5			
91	X=34			
92	X=54	Y=19.2		
93	X=57			
100	X=28.5871	Y=9.6705		: PUSAT MASSA

C *** Joint Fourth Floor ***

101	X=0	Y=0	Z=14.9	
102	X=4			
103	X=7			
104	X=7	Y=2		
105	X=10			
111	X=34			G=105,111,1
112	X=34	Y=1		
118	X=58			G=112,118,1
119	X=0	Y=4		
120	X=4			
121	X= 5.2			
122	X= 7			
123	X=0	Y= 8		
124	X= 5.2			
125	X= 7			F=104,14,1,1,21
140	X=0	Y=12		F=119,2,1,1,21

143	X= 7		F=104,5,1,1,39
149	X=28.5		
150	X=30		
151	X=31.5		
152	X=34		F=111,7,1,1,41
160	X= 7	Y=15.3	
161	X=10		
162	X=26	Y=14.5	
163	X=28.5		
164	X=31.5		
165	X=34		
166	X=54	Y=15	
167	X=57		
168	X=58		
169	X=26	Y=17	
170	X=28.5		
171	X= 0	Y=16	F=101,2,1,1,70
174	X= 7	Y=18	F=104,5,1,1,70
180	X=34	Y=17	F=112,5,1,1,68
186	X= 7	Y=19.5	
187	X=10		
188	X=26	Y=19	
189	X=28.5		
190	X=31.5		
191	X=34		
192	X=54	Y=19.2	
193	X=57		
200	X=28.7211	Y=9.5908	: PUSAT MASSA
C *** Joint Third Floor ***			
201	X= 0	Y= 0	Z=11.7
202	X= 4		
203	X= 7		
204	X= 7	Y= 2	
205	X=10		
211	X=34		G=205,211,1
212	X=34	Y= 1	
218	X=58		G=212,218,1
219	X= 0	Y= 4	
220	X= 4		
221	X= 5.2		
222	X= 7		
223	X= 0	Y= 8	
224	X= 5.2		
225	X= 7		F=204,14,1,1,21
240	X= 0	Y=12	F=219,2,1,1,21
243	X= 7		F=204,5,1,1,39
249	X=28.5		
250	X=30		
251	X=31.5		
252	X=34		F=211,7,1,1,41
260	X= 7	Y=15.3	
261	X=10		
262	X=26	Y=14.5	
263	X=28.5		
264	X=31.5		
265	X=34		
266	X=54	Y=15	
267	X=57		
268	X=58		
269	X=26	Y=17	
270	X=28.5		
271	X= 0	Y=16	F=201,2,1,1,70
274	X= 7	Y=18	F=204,5,1,1,70
280	X=34	Y=17	F=212,5,1,1,68
286	X= 7	Y=19.5	
287	X=10		
288	X=26	Y=19	
289	X=28.5		
290	X=31.5		
291	X=34		

292 X=54 Y=19.2
 293 X=57
 300 X=28.7211 Y=9.5908 : PUSAT MASSA
C * Joint Second Floor *****
 301 X=0 Y=0 Z=8.5
 302 X=4
 303 X=7
 304 X=7 Y=2
 305 X=10
 311 X=34 G=305,311,1
 312 X=34 Y=1
 318 X=58 G=312,318,1
 319 X=0 Y=4
 320 X=4
 321 X=5.2
 322 X=7
 323 X=0 Y=8
 324 X=5.2
 325 X=7 F=304,14,1,1,21
 340 X=0 Y=12 F=319,2,1,1,21
 343 X=7 F=304,5,1,1,39
 349 X=28.5
 350 X=30
 351 X=31.5
 352 X=34 F=311,7,1,1,41
 360 X=7 Y=15.3
 361 X=10
 362 X=26 Y=14.5
 363 X=28.5
 364 X=31.5
 365 X=34
 366 X=54 Y=15
 367 X=57
 368 X=58
 369 X=26 Y=17
 370 X=28.5
 371 X=0 Y=16 F=301,2,1,1,70
 374 X=7 Y=18 F=304,5,1,1,70
 380 X=34 Y=17 F=312,5,1,1,68
 386 X=7 Y=19.5
 387 X=10
 388 X=26 Y=19
 389 X=28.5
 390 X=31.5
 391 X=34
 392 X=54 Y=19.2
 393 X=57
 400 X=33.3996 Y=15.9689 : PUSAT MASSA
C * Joint First Floor *****
 401 X=0 Y=0 Z=4.5
 402 X=4
 403 X=7
 404 X=7 Y=2
 405 X=10
 411 X=34 G=405,411,1
 412 X=34 Y=1
 418 X=58 G=412,418,1
 419 X=0 Y=4
 420 X=4
 421 X=5.2
 422 X=7
 423 X=0 Y=8
 424 X=5.2
 425 X=7 F=404,14,1,1,21
 440 X=0 Y=12 F=419,2,1,1,21
 443 X=7 F=404,5,1,1,39
 449 X=28.5
 450 X=30
 451 X=31.5
 452 X=34 F=411,7,1,1,41

460	X= 7	Y=15.3	
461	X=10		
462	X=26	Y=14.5	
463	X=28.5		
464	X=31.5		
465	X=34		
466	X=54	Y=15	
467	X=57		
468	X=58		
469	X=26	Y=17	
470	X=28.5		
471	X= 0	Y=16	F=401,2,1,1,70
474	X= 7	Y=18	F=404,5,1,1,70
480	X=34	Y=17	F=412,5,1,1,68
486	X= 7	Y=19.5	
487	X=10		
488	X=26	Y=19	
489	X=28.5		
490	X=31.5		
491	X=34		
492	X=54	Y=19.2	
493	X=57		
500	X=34.5013	Y=17.9060	: PUSAT MASSA
C *** Joint Based Floor ***			
501	X= 0	Y= 0	Z=0
502	X= 4		
503	X= 7		
504	X= 7	Y= 2	
505	X=10		
511	X=34		G=505,511,1
512	X=34	Y= 1	
518	X=58		G=512,518,1
519	X= 0	Y= 4	
520	X= 4		
521	X= 5.2		
522	X= 7		
523	X= 0	Y= 8	
524	X= 5.2		
525	X= 7		F=504,14,1,1,21
540	X= 0	Y=12	F=519,2,1,1,21
543	X= 7		F=504,5,1,1,39
549	X=28.5		
550	X=30		
551	X=31.5		
552	X=34		F=511,7,1,1,41
560	X= 7	Y=15.3	
561	X=10		
562	X=26	Y=14.5	
563	X=28.5		
564	X=31.5		
565	X=34		
566	X=54	Y=15	
567	X=57		
568	X=58		
569	X=26	Y=17	
570	X=28.5		
571	X= 0	Y=16	F=501,2,1,1,70
574	X= 7	Y=18	F=504,5,1,1,70
580	X=34	Y=17	F=512,5,1,1,68
586	X= 7	Y=19.5	
587	X=10		
588	X=26	Y=19	
589	X=28.5		
590	X=31.5		
591	X=34		
592	X=54	Y=19.2	
593	X=57		
C *** Joint Roof 2'nd Floor ***			
601	X=38	Y=19.2	Z=8.5
604	X=50		G=601,604,1

605	X=38	Y=22		
609	X=54			G=605,609,1
610	X=57			
641	X=38	Y=46		G=605,641,6
647	X=38	Y=50		F=605,5,7,1,6
C *** Joint 1st Floor ***				
701	X=38	Y=19.2	Z=4.5	
704	X=50			G=701,704,1
705	X=38	Y=22		
709	X=54			G=705,709,1
710	X=57			
741	X=38	Y=46		G=705,741,6
747	X=38	Y=50		F=705,5,7,1,6
753	X= 4	Y= 8		
754	X=58	Y=5.2		
755	X=58	Y=12.8		
756	X=62	Y=5.2		
757	X=62	Y=12.8		
C *** Joint Based Floor ***				
801	X=38	Y=19.2	Z=0	
804	X=50			G=801,804,1
805	X=38	Y=22		
809	X=54			G=805,809,1
810	X=57			
841	X=38	Y=46		G=805,841,6
847	X=38	Y=50		F=805,5,7,1,6
853	X= 4	Y= 8		
854	X=58	Y=5.2		
855	X=58	Y=12.8		
856	X=62	Y=5.2		
857	X=62	Y=12.8		
C *** Joint Bordes Tangga ***				
1000	X= 7	Y=19.5	Z=13.38	
1001	X=10			
1002	X= 7	Y=19.5	Z=10.18	
1003	X=10			
1004	X= 7	Y=19.5	Z=7	
1005	X=10			
1006	X= 7	Y=19.5	Z=2.25	
1007	X=10			
1008	X=54	Y=19.2	Z=13.38	
1009	X=57			
1010	X=54	Y=19.2	Z=10.18	
1011	X=57			
1012	X=54	Y=19.2	Z=7	
1013	X=57			
1014	X=54	Y=19.2	Z=2.25	
1015	X=57			

RESTRAINTS

1 93 1	R=1,1,0,0,0,1
101 193 1	R=1,1,0,0,0,1
201 293 1	R=1,1,0,0,0,1
301 393 1	R=1,1,0,0,0,1
401 420 1	R=1,1,0,0,0,1
422 423 1	R=1,1,0,0,0,1
425 441 1	R=1,1,0,0,0,1
443 493 1	R=1,1,0,0,0,1
501 593 1	R=1,1,1,1,1,1
521 542 21	R=1,1,0,0,0,1
601 652 1	R=1,1,0,0,0,1
701 757 1	R=1,1,0,0,0,1
801 857 1	R=1,1,1,1,1,1
100 500 100	R=0,0,1,1,1,0

MASSES

100	M= 6468.1032, 6468.1032,0,0,0,1964281.4620
200	M=12340.1633,12340.1633,0,0,0,3705359.6390
300	M=12340.1633,12340.1633,0,0,0,3705359.6390
400	M=17763.2759,17763.2759,0,0,0,8326070.4230

500 M=22098.7440,22098.7440,0,0,0,10489451.570

FRAME

C INFORMASI KONTROL FRAME

NM=10 NL=285 Z=-1,-1,0 NSEC=3

C MATERIAL dan DATA PROPERTIES POTONGAN

C MATERIAL BALOK

1 SH=R T=0.80,0.40 E=2.35E7 G=8.333E6

2 SH=R T=0.60,0.30 E=2.35E7 G=8.333E6

3 SH=R T=0.50,0.25 E=2.35E7 G=8.333E6

4 SH=R T=0.40,0.25 E=2.35E7 G=8.333E6

C MATERIAL KOLOM :massa kolom dihapus

5 SH=R T=0.80,0.80 E=2.35E7 M=0.6400*23 G=8.333E6

6 SH=R T=0.70,0.70 E=2.35E7 M=0.4900*23 G=8.333E6

7 SH=R T=0.60,0.60 E=2.35E7 M=0.3600*23 G=8.333E6

8 SH=R T=0.30,0.30 E=2.35E7 M=0.0900*23 G=8.333E6

9 SH=R T=0.25,0.25 E=2.35E7 M=0.0625*23 G=8.333E6

10 SH=R T=0.15,0.15 E=2.35E7 M=0.0225*23 G=8.333E6

C DATA BEBAN PADA BENTANG ELEMEN

C *** BEBAN MATI PLAT ***

1 TRAP=0,0,0,2,-3.6225*2,0,4,0,0

2 TRAP=0,0,0,2,-3.6225*4,0,4,0,0

3 TRAP=0,0,0,1.5,-3.6225*1.5,0,3,0,0

4 TRAP=0,0,0,1.5,-3.6225*3,0,3,0,0

5 TRAP=0,0,0,2,-3.6225*4,0,3,2,-3.6225*4,0,5,2,0,0

6 TRAP=0,0,0,-0.5,-3.6225*1.8,0,-1,0,0

7 TRAP=0,0,0,1,-3.6225,0,1.5,-3.6225,0,2.5,0,0

8 TRAP=0,0,0,1.25,-3.6225*1.25,0,2.5,0,0 WL=0,-3.6225*1.5,0 PLD=1.25,-36.95,0

9 TRAP=0,0,0,1.25,-3.6225*1.25,0,2.5,0,0

10 TRAP=0,0,0,1.25,-3.6225*2.5,0,2.5,0,0

11 TRAP=0,0,0,2,-3.6225*2,0,4,-3.6225*2,0,6,0,0

12 TRAP=0,0,0,2,-3.6225*4,0,4,-3.6225*4,0,6,0,0

13 TRAP=0,0,0,1,-3.6225,0,1.5,-3.6225,0,2.5,0,0 WL=0,-3.6225*2.5/3,0

14 TRAP=0,0,0,1.5,-3.6225*1.5,0,2.5,-3.6225*1.5,0,4,0,0 WL=0,-3.6225*4/3,0

15 TRAP=0,0,0,1,-3.6225,0,2,0,0 WL=0,-3.6225*1.5,0

16 TRAP=0,0,0,1.25,-3.6225*1.25,0,3.25,-3.6225*1.25,0,4.5,0,0 WL=0,-3.6225*1.5,0

17 TRAP=0,0,0,-9,-3.6225*9,0,3.1,-3.6225*9,0,4,0,0 WL=0,-3.6225*4/3,0

18 TRAP=0,0,0,2,-3.6225*2,0,4,-3.6225*2,0,6,0,0 WL=0,-4.9809,0

19 TRAP=0,0,0,-3571,-3.6225*1.5,0,-6429,-3.6225*1.5,0,-1,0,0

20 TRAP=0,0,0,2,-3.6225*4,0,3,2,-3.6225*3,0,4,-3.6225*1.2,0 WL=0,-3.6225*4/3

21 WL=0,-3.6225*1.2,0

22 TRAP=0,-3.6225*1.2,0,-1667,-3.6225*1.5,0,-1,0,0 WL=0,-3.6225*1.8/3,0

23 TRAP=0,0,0,1.5,-3.6225*1.5,0,2,-3.6225*1.5,0

24 TRAP=0,-3.6225*1.5,0,-5,-3.6225*2,0,1.5,-1.3325*2,0,2,-3.6225*1.5,0

25 TRAP=0,-3.6225*1.5,0,2.5,-3.6225*1.5,0,4,0,0 WL=0,-3.0402,0

26 TRAP=0,0,0,1.5,-3.6225*1.5,0,2.5,-3.6225*1.5,0,4,0,0 WL=0,-3.0402,0

27 TRAP=0,0,0,1.5,-1.3325*1.5,0,2.5,-3.6225*1.5,0,3.3,-3.6225*7,0 \

WL=0,-3.9368,0

28 WL=0,-3.6225*7,0

29 TRAP=0,-3.6225*7,0,-8,-3.6225*1.5,0,2,-3.6225*1.5,0

30 TRAP=0,-3.6225*1.5,0,1.5,0,0

31 TRAP=0,0,0,2,-3.6225*2,0,3,3,-3.6225*2,0 WL=0,-3.9368,0

32 TRAP=0,-3.6225*2,0,-7,-3.6225*2.5,0,1.5,-3.6225*2.5,0,2.5,-3.6225*1.5,0

33 TRAP=0,0,0,2,-3.6225*2,0,2.5,-7.245,0 WL=0,-3.6225*2.5/3,0 \

PLD=1.25,-36.95,0

34 TRAP=0,-3.6225*2,0,1.5,-3.6225*2,0,2.5,-3.6225,0 PLD=1.25,-36.95,0

35 WL=0,-3.6225,0

36 TRAP=0,-3.6225,0,1,0,0

37 TRAP=0,0,0,1,-3.6225,0

38 TRAP=0,0,0,2,-3.6225*2,0,2.5,-3.6225*1.5,0 WL=0,-3.6225*2.5/3,0

39 TRAP=0,-3.6225*1.5,0,1.5,0,0

40 TRAP=0,0,0,1.5,-3.6225*1.5,0

41 TRAP=0,-3.6225*1.5,0,-5,-3.6225*2,0,2.5,0,0 WL=0,-3.6225*2.5/3,0

42 TRAP=0,0,0,2,-3.6225*2,0,3,-3.6225,0 WL=0,-3.6225,0

43 WL=0,-4.3229*2,0

44 TRAP=0,-3.6225,0,-5,-3.6225*3,0,1,-3.6225*3,0,1.5,-3.6225,0

45 TRAP=0,-3.6225,0,1,-7.245,0,2.5,-7.245,0 WL=0,-3.6225*2.5/3,0 \

PLD=1.25,-36.95,0

46 TRAP=0,-3.6225*2,0,-5,-3.6225*2.5,0,1.25,-3.6225*2.5,0,2.5,-3.6225*1.25,0

47 TRAP=0,-3.6225*1.25,0,75,-3.6225*1.25,0,2,0,0
 48 TRAP=0,0,0,2,-3.6225*2,0,4,-3.6225*2,0 WL=0,-3.6225*4/3,0
 49 TRAP=0,-3.6225*2,0,1.5,-3.6225*2,0,2,-3.6225*1.5,0
 50 TRAP=0,-3.6225*1.5,0,-3.182,-3.6225*1.5,0,-1,0,0
 51 TRAP=0,0,0,-5,-4.5041*2,0,-1,0,0
 52 TRAP=0,0,0,2,-4.5041*4,0,4,0,0
 53 TRAP=0,0,0,1.5,-4.5041*1.5,0,3,0,0 WL=0,-14.9364,0
 54 TRAP=0,0,0,1.5,-4.5041*3,0,3,0,0
 55 TRAP=0,0,0,2,-4.5041*4,0,3,2,-4.5041*4,0,5,2,0,0
 56 TRAP=0,0,0,-0.5,-4.5041*1.8,0,-1,0,0
 57 TRAP=0,0,0,1,-4.5041,0,1.5,-4.5041,0,2,5,0,0
 58 WL=0,-4.5041*1.5,0
 59 TRAP=0,0,0,1.25,-4.5041*1.25,0,2,5,0,0
 60 TRAP=0,0,0,2,-4.5041*2,0,4,-4.5041*2,0,6,0,0
 61 TRAP=0,0,0,2,-4.5041*4,0,4,-4.5041*4,0,6,0,0
 62 TRAP=0,0,0,2,-4.5041*4,0,4,-4.5041*4,0,6,0,0 PLD=4.2,-38.7776,0
 63 TRAP=0,0,0,2,-4.5041*4,0,4,-4.5041*4,0,6,0,0 PLD=1.8,-38.7776,0
 64 TRAP=0,0,0,2,-4.5041*2,0,2.5,-4.5041*1.5,0
 65 TRAP=0,-4.5041*1.5,0,1.5,0,0
 66 TRAP=0,0,0,1.5,-4.5041*1.5,0
 67 TRAP=0,-4.5041*1.5,0,5,-4.5041*2,0,2,5,0,0
 68 TRAP=0,0,0,9,-4.5041*9,0,3,1,-4.5041*9,0,4,0,0 WL=0,-4.5041*4/3,0 \\
 PLD=2.2,-9.7979,0
 69 TRAP=0,0,0,9,-4.5041*9,0,3,1,-4.5041*9,0,4,0,0 WL=0,-4.5041*4/3,0 \\
 PLD=1.8,-9.7979,0
 70 TRAP=0,0,0,1,-4.5041,0,2,0,0 WL=0,-4.5041*1.5,0
 71 TRAP=0,0,0,1.25,-4.5041*1.25,0,3,25,-4.5041*1.25,0,4,5,0,0 WL=0,-4.5041*1.5
 72 TRAP=0,0,0,1.5,-4.5041*1.5,0,2,5,-4.5041*1.5,0,4,0,0 WL=0,-4.5041*2/3,0
 73 TRAP=0,0,0,2,-4.5041*4,0,4,0,0 WL=0,-6.1463,0 PLD=1.8,-27.4004,0,3.65, \\
 -4.115,0
 74 TRAP=0,0,0,2,-4.5041*4,0,4,0,0 WL=0,-6.1463,0 PLD=.35,-4.115,0,2,2, \\
 -27.4004,0
 75 TRAP=0,0,0,2,-4.5041*4,0,4,0,0 WL=0,-1.7258,0 PLD=7,-8.2301,0,3,3,-8.2301
 76 TRAP=0,0,0,2,-4.5041*4,0,4,0,0 WL=0,-5.022,0 PLD=7,-8.2301,0,3,3,-4.1151
 77 TRAP=0,0,0,2,-4.5041*4,0,3,2,-4.5041*4,0,4,-4.5041*1.2,0 WL=0,-4.5041*4/3
 78 WL=0,-4.5041*1.2,0
 79 TRAP=0,-4.5041*1.2,0,-1.667,-4.5041*1.5,0,-1,0,0 WL=0,-4.5041*1.8/3,0 \\
 PLD=1.1,-8.2301,0
 80 TRAP=0,0,0,2,-4.5041*4,0,4,0,0 PLD=1.5,-15.7778,0
 81 TRAP=0,0,0,2,-4.5041*2,0,3,-4.5041,0 PLD=1.5,-15.7778,0 WL=0,-26.5537,0
 82 TRAP=0,-4.5041,0,1,0,0
 83 TRAP=0,0,0,1.5,-4.5041*1.5,0,2,-4.5041*1.5,0
 84 TRAP=0,-4.5041*1.5,0,5,-4.5041*2,0,1.5,-4.5041*2,0,2,-4.5041*1.5,0 \\
 PLD=1.3,-8.2301,0
 85 TRAP=0,-4.5041*1.5,0,2.5,-4.5041*1.5,0,4,0,0 WL=0,-3.7801,0 PLD=2.2,-9.7979
 86 TRAP=0,0,0,1.5,-4.5041*1.5,0,2.5,-4.5041*1.5,0,4,0,0 WL=0,-3.7801,0 \\
 PLD=1.8,-9.7979,0
 87 TRAP=0,0,0,1.5,-4.5041*1.5,0,2.5,-4.5041*1.5,0,3,3,-4.5041*7,0 \\
 WL=0,-4.8950,0 PLD=7,-8.2301,0
 88 TRAP=0,-4.5041*7,0,-1,0,0
 89 TRAP=0,0,0,2,-4.5041*2,0,4,-4.5041*2,0,6,0,0 WL=0,-6.1931,0
 90 TRAP=0,0,0,1.5,-4.5041*1.5,0,2.5,-4.5041*1.5,0,4,0,0 WL=0,-4.5041*4/3,0
 91 TRAP=0,0,0,2,-4.5041*2,0,3,3,-4.5041*2,0 WL=0,-4.5041*4/3,0
 92 TRAP=0,-4.5041*2,0,-2.593,-4.5041*2,0,-1,0,0
 93 TRAP=0,0,0,2,-4.5041*2,0,2.5,-4.5041*2,0
 94 TRAP=0,-4.5041*2,0,1.5,-4.5041*2,0,2.5,-4.5041,0
 95 WL=0,-4.5041,0
 96 TRAP=0,0,0,2,-4.5041*4,0,4,0,0 WL=0,-1.4336,0 PLD=7,-8.2301,0
 97 WL=0,-5.3749*2,0
 98 TRAP=0,-4.5041,0,5,-4.5041*3,0,1,-4.5041*3,0,1.5,-4.5041,0
 99 TRAP=0,-4.5041,0,1,-4.5041*2,0,2.5,-4.5041*2,0
 100 TRAP=0,-4.5041*2,0,5,-4.5041*2.5,0,1.25,-4.5041*2.5,0,2.5,-4.5041*1.25,0
 101 TRAP=0,-4.5041*1.25,0,75,-4.5041*1.25,0,2,0,0
 102 TRAP=0,0,0,2,-4.5041*4,0,4,-4.5041*2,0 WL=0,-4.3604,0 PLD=1.8,-19.8028,0
 103 TRAP=0,-4.5041*2,0,2,0,0
 104 TRAP=0,0,0,1,-4.5041,0
 105 TRAP=0,0,0,1.1,-3.6225*1.1,0,2,9,-3.6225*1.1,0,4,0,0 WL=0,-4.5041*4/3,0
 106 WL=0,-7.8261,0
 107 TRAP=0,0,0,1.4,-3.6225*1.4,0,1,6,-3.6225*1.4,0,3,0,0
 108 TRAP=0,0,0,1.4,-3.6225*1.4,0,2,6,-3.6225*1.4,0,4,0,0 WL=0,-3.6225*4/3,0

109 TRAP=0,0,0,1.4,-3.6225*1.4,0,1.6,-3.6225*1.4,0,3,0,0 WL=0,-3.6225,0
 110 WL=0,-3.6225*2.2/3,0
 111 TRAP=0,0,0,-.5,-3.6225*2.2,0,-1,0,0
 112 WL=0,-3.6225*2.8/3,0
 113 TRAP=0,0,0,1.4,-3.6225*2.8,0,2.8,0,0
 114 TRAP=0,0,0,1.5,-3.6225*1.5,0,2.5,-3.6225*1.5,0,3,0,0
 115 TRAP=0,0,0,1.2,-4.5041*2.4,0
 116 TRAP=0,-4.5041*2.4,0,-1.667,-4.5041*3,0,-1,0,0
 117 TRAP=0,0,0,2,-4.5041*2,0,3,-4.5041,0 WL=0,-37.7796,0
 118 TRAP=0,0,0,1.1,-4.5041*1.1,0,2.9,-4.5041*1.1,0,4,0,0 WL=0,-4.5041*4/3,0
 119 TRAP=0,0,0,1.4,-4.5041*1.4,0,1.6,-4.5041*1.4,0,3,0,0
 120 WL=0,-3.6225*2.2/3,0
 121 TRAP=0,0,0,-.5,-4.5041*2.2,0,-1,0,0
 122 WL=0,-4.5041*2.8/3,0
 123 TRAP=0,0,0,1.4,-4.5041*2.8,0,2.8,0,0
 124 TRAP=0,-4.5041*1.5,0,.5,-4.5041*2,0,1.5,-4.5041*2,0,2,-4.5041*1.5,0
 125 TRAP=0,-4.5041*1.5,0,1.5,-4.5041*3,0,2.5,-4.5041*3,0,4,0,0
 126 TRAP=0,0,0,1.5,-4.5041*3,0,2.5,-4.5041*3,0,4,0,0
 127 TRAP=0,0,0,1.5,-4.5041*1.5,0,2.5,-4.5041*1.5,0,3.3,-4.5041*7,0 \\
 WL=0,-4.895,0
 128 WL=0,-9.7307,0
 129 TRAP=0,0,0,1.4,-4.5041*1.4,0,2.6,-4.5041*1.4,0,4,0,0 WL=0,-4.5041*4/3,0
 130 TRAP=0,0,0,1.4,-4.5041*1.4,0,1.6,-4.5041*1.4,0,3,0,0 WL=0,-4.5041,0
 131 TRAP=0,0,0,1.5,-4.5041*2,0,4,-4.5041*2,0,4.2,-4.5041*1.8,0
 132 TRAP=0,-3.6225*1.8,0,-1,-4.5041*1.8,0
 133 TRAP=0,-3.6225*1.8,0,2,-3.6225*2,0,3.8,-3.6225*2,0,4,-3.6225*1.8,0 \\
 WL=0,-4.5041*4/3,0
 134 TRAP=0,-4.5041*1.8,0,1.8,-3.6225*1.8,0
 135 TRAP=0,-4.5041*1.8,0,-.0909,-4.5041*2,0,-1,0,0
 136 TRAP=0,0,0,2,-3.6225*2,0,5.6,-3.6225,0,7.6,0,0
 137 TRAP=0,0,0,2,-4.5041*4,0,4,-4.5041*2,0
 138 WL=0,-4.5041*2.2/3,0
 C ***** BEBAN HIDUP PLAT *****
 139 TRAP=0,0,0,2,-1.4375*2,0,4,0,0
 140 TRAP=0,0,0,2,-1.4375*4,0,4,0,0
 141 TRAP=0,0,0,1.5,-1.4375*1.5,0,3,0,0
 142 TRAP=0,0,0,1.5,-1.4375*3,0,3,0,0
 143 TRAP=0,0,0,2,-1.4375*4,0,3.2,-1.4375*4,0,5.2,0,0
 144 TRAP=0,0,0,-0.5,-1.4375*1.8,0,-1,0,0
 145 TRAP=0,0,0,1,-1.4375,0,1.5,-1.4375,0,2.5,0,0
 146 TRAP=0,0,0,1.25,-1.4375*1.25,0,2.5,0,0 WL=0,-1.4375*1.5,0
 147 TRAP=0,0,0,1.25,-1.4375*1.25,0,2.5,0,0
 148 TRAP=0,0,0,1.25,-1.4375*2.5,0,2.5,0,0
 149 TRAP=0,0,0,2,-1.4375*2,0,4,-1.4375*2,0,6,0,0
 150 TRAP=0,0,0,2,-1.4375*4,0,4,-1.4375*4,0,6,0,0
 151 TRAP=0,0,0,1,-1.4375,0,1.5,-1.4375,0,2.5,0,0 WL=0,-1.4375*2.5/3,0
 152 TRAP=0,0,0,1.5,-1.4375*1.5,0,2.5,-1.4375*1.5,0,4,0,0 WL=0,-1.4375*4/3,0
 153 TRAP=0,0,0,1,-1.4375,0,2,0,0 WL=0,-1.4375*1.5,0
 154 TRAP=0,0,0,1.25,-1.4375*1.25,0,3.25,-1.4375*1.25,4.5,0,0 WL=0,-1.4375*1.5
 155 TRAP=0,0,0,9,-1.4375*9,0,3.1,-1.4375*9,0,4,0,0 WL=0,-1.4375*4/3,0
 156 TRAP=0,0,0,2,-1.4375*2,0,4,-1.4375*2,0,6,0,0 WL=0,-4.9809,0
 157 TRAP=0,0,0,-3571,-1.4375*1.5,0,-.6429,-1.4375*1.5,0,-1,0,0
 158 TRAP=0,0,0,2,-1.4375*4,0,3.2,-1.4375*3,0,4,-1.4375*1.2,0 WL=0,-1.4375*4/3
 159 WL=0,-1.4375*1.2,0
 160 TRAP=0,-1.4375*1.2,0,-.1667,-1.4375*1.5,0,-1,0,0 WL=0,-1.4375*1.8/3,0
 161 TRAP=0,0,0,1.5,-1.4375*1.5,0,2,-1.4375*1.5,0
 162 TRAP=0,-1.4375*1.5,0,.5,-1.4375*2,0,1.5,-1.3325*2,0,2,-1.4375*1.5,0
 163 TRAP=0,-1.4375*1.5,0,2.5,-1.4375*1.5,0,4,0,0 WL=0,-3.0402,0
 164 TRAP=0,0,0,1.5,-1.4375*1.5,0,2.5,-1.4375*1.5,0,4,0,0 WL=0,-3.0402,0
 165 TRAP=0,0,0,1.5,-1.3325*1.5,0,2.5,-1.4375*1.5,0,3.3,-1.4375*7,0 \\
 WL=0,-3.9368,0
 166 WL=0,-1.4375*7,0
 167 TRAP=0,-1.4375*7,0,8,-1.4375*1.5,0,2,-1.4375*1.5,0
 168 TRAP=0,-1.4375*1.5,0,1.5,0,0
 169 TRAP=0,0,0,2,-1.4375*2,0,3.3,-1.4375*2,0 WL=0,-3.9368,0
 170 TRAP=0,-1.4375*2,0,.7,-1.4375*2.5,0,1.5,-1.4375*2.5,0,2.5,-1.4375*1.5,0
 171 TRAP=0,0,0,2,-1.4375*2,0,2.5,-1.4375*2,0 WL=0,-1.4375*2.5/3,0
 172 TRAP=0,-1.4375*2,0,1.5,-1.4375*2,0,2.5,-1.4375,0
 173 WL=0,-1.4375,0
 174 TRAP=0,-1.4375,0,1,0,0

175 TRAP=0,0,0,1,-1.4375,0
 176 TRAP=0,0,0,2,-1.4375*2,0,2.5,-1.4375*1.5,0 WL=0,-1.4375*2.5/3,0
 177 TRAP=0,-1.4375*1.5,0,1.5,0,0
 178 TRAP=0,0,0,1.5,-1.4375*1.5,0
 179 TRAP=0,-1.4375*1.5,0,-.5,-1.4375*2,0,2.5,0,0 WL=0,-1.4375*2.5/3,0
 180 TRAP=0,0,0,2,-1.4375*2,0,3,-1.4375,0 WL=0,-1.4375,0
 181 WL=0,-1.7153*2,0
 182 TRAP=0,-1.4375,0,.5,-1.4375*3,0,1,-1.4375*3,0,1.5,-1.4375,0
 183 TRAP=0,-1.4375,0,1,-1.4375*2,0,2.5,-1.4375*2,0 WL=0,-1.4375*2.5/3,0
 184 TRAP=0,-1.4375*2,0,-.5,-1.4375*2.5,0,1.25,-1.4375*2.5,0,2.5,-1.4375*1.25,0
 185 TRAP=0,-1.4375*1.25,0,.75,-1.4375*1.25,0,2,0,0
 186 TRAP=0,0,0,2,-1.4375*2,0,4,-1.4375*2,0 WL=0,-1.4375*4/3,0
 187 TRAP=0,-1.4375*2,0,1.5,-1.4375*2,0,2,-1.4375*1.5,0
 188 TRAP=0,-1.4375*1.5,0,-.3182,-1.4375*1.5,0,-1,0,0
 189 TRAP=0,0,0,-.5,-2.3958*2,0,-1,0,0
 190 TRAP=0,0,0,2,-2.3958*4,0,4,0,0
 191 TRAP=0,0,0,1.5,-2.3958*1.5,0,3,0,0 WL=0,-6.0099,0
 192 TRAP=0,0,0,1.5,-2.3958*3,0,3,0,0
 193 TRAP=0,0,0,2,-2.3958*4,0,3.2,-2.3958*4,0,5.2,0,0
 194 TRAP=0,0,0,-0.5,-2.3958*1.8,0,-1,0,0
 195 TRAP=0,0,0,1,-2.3958,0,1.5,-2.3958,0,2.5,0,0
 196 WL=0,-2.3958*1.5,0
 197 TRAP=0,0,0,1.25,-2.3958*1.25,0,2.5,0,0
 198 TRAP=0,0,0,2,-2.3958*2,0,4,-2.3958*2,0,6,0,0
 199 TRAP=0,0,0,2,-2.3958*4,0,4,-2.3958*4,0,6,0,0
 200 TRAP=0,0,0,2,-2.3958*2,0,2.5,-2.3958*1.5,0
 201 TRAP=0,-2.3958*1.5,0,1.5,0,0
 202 TRAP=0,0,0,1.5,-2.3958*1.5,0
 203 TRAP=0,-2.3958*1.5,0,-.5,-2.3958*2,0,2.5,0,0
 204 TRAP=0,0,0,9,-2.3958*9,0,3.1,-2.3958*9,0,4,0,0 WL=0,-2.3958*4/3,0
 205 TRAP=0,0,0,1,-2.3958,0,2,0,0 WL=0,-2.3958*1.5,0
 206 TRAP=0,0,0,1.25,-2.3958*1.25,0,3.25,-2.3958*1.25,0,4.5,0,0 \\\nWL=0,-2.3958*1.5,0
 207 TRAP=0,0,0,1.5,-2.3958*1.5,0,2.5,-2.3958*1.5,0,4,0,0 WL=0,-2.3958*2/3,0
 208 TRAP=0,0,0,2,-2.3958*4,0,3.2,-2.3958*4,0,4,-2.3958*1.2,0 WL=0,-2.3958*4/3
 209 WL=0,-2.3958*1.2,0
 210 TRAP=0,-2.3958*1.2,0,-1667,-2.3958*1.5,0,-1,0,0 WL=0,-2.3958*1.8/3,0
 211 TRAP=0,0,0,2,-2.3958*2,0,3,-2.3958,0 WL=0,-10.6843,0
 212 TRAP=0,-2.3958,0,1,0,0
 213 TRAP=0,0,0,1.5,-2.3958*1.5,0,2,-2.3958*1.5,0
 214 TRAP=0,-2.3958*1.5,0,-.5,-2.3958*2,0,1.5,-2.3958*2,0,2,-2.3958*1.5,0
 215 TRAP=0,-2.3958*1.5,0,2.5,-2.3958*1.5,0,4,0,0 WL=0,-2.0107,0
 216 TRAP=0,0,0,1.5,-2.3958*1.5,0,2.5,-2.3958*1.5,0,4,0,0 WL=0,-2.0107,0
 217 TRAP=0,0,0,1.5,-2.3958*1.5,0,2.5,-2.3958*1.5,0,3.3,-2.3958*7,0 \\\nWL=0,-2.6037,0
 218 TRAP=0,-2.3958*7,0,-1,0,0
 219 TRAP=0,0,0,2,-2.3958*2,0,4,-2.3958*2,0,6,0,0 WL=0,-3.2942,0
 220 TRAP=0,0,0,1.5,-2.3958*1.5,0,2.5,-2.3958*1.5,0,4,0,0 WL=0,-2.3958*4/3,0
 221 TRAP=0,0,0,2,-2.3958*2,0,3.3,-2.3958*2,0 WL=0,-2.3958*4/3,0
 222 TRAP=0,-2.3958*2,0,-.2593,-2.3958*2,0,-1,0,0
 223 TRAP=0,0,0,2,-2.3958*2,0,2.5,-2.3958*2,0
 224 TRAP=0,-2.3958*2,0,1.5,-2.3958*2,0,2.5,-2.3958,0
 225 WL=0,-2.3958,0
 226 WL=0,-2.859*2,0
 227 TRAP=0,-2.3958,0,-.5,-2.3958*3,0,1,-2.3958*3,0,1.5,-2.3958,0
 228 TRAP=0,-2.3958,0,1,-2.3958*2,0,2.5,-2.3958*2,0
 229 TRAP=0,-2.3958*2,0,-.5,-2.3958*2.5,0,1.25,-2.3958*2.5,0,2.5,-2.3958*1.25,0
 230 TRAP=0,-2.3958*1.25,0,.75,-2.3958*1.25,0,2,0,0
 231 TRAP=0,0,0,2,-2.3958*4,0,4,-2.3958*2,0
 232 TRAP=0,-2.3958*2,0,2,0,0
 233 TRAP=0,0,0,1,-2.3958,0
 234 TRAP=0,0,0,1.1,-1.4375*1.1,0,2.9,-1.4375*1.1,0,4,0,0 WL=0,-2.3958*4/3,0
 235 WL=0,-3.1056,0
 236 TRAP=0,0,0,1.4,-1.4375*1.4,0,1.6,-1.4375*1.4,0,3,0,0
 237 TRAP=0,0,0,1.4,-1.4375*1.4,0,2.6,-1.4375*1.4,0,4,0,0 WL=0,-1.4375*4/3,0
 238 TRAP=0,0,0,1.4,-1.4375*1.4,0,1.6,-1.4375*1.4,0,3,0,0 WL=0,-1.4375,0
 239 WL=0,-1.4375*2.2/3,0
 240 TRAP=0,0,0,-.5,-1.4375*2.2,0,-1,0,0
 241 WL=0,-1.4375*2.8/3,0
 242 TRAP=0,0,0,1.4,-1.4375*2.8,0,2.8,0,0

243 TRAP=0,0,0,1.5,-1.4375*1.5,0,2.5,-1.4375*1.5,0,3,0,0
 244 TRAP=0,0,0,1.2,-2.3958*2.4,0
 245 TRAP=0,-2.3958*2.4,0,-1.667,-2.3958*3,0,-1,0,0
 246 TRAP=0,0,0,1.1,-2.3958*1.1,0,2.9,-2.3958*1.1,0,4,0,0 WL=0,-2.3958*4/3,0
 247 TRAP=0,0,0,1.4,-2.3958*1.4,0,1.6,-2.3958*1.4,0,3,0,0
 248 TRAP=0,0,0,-5,-2.3958*2.2,0,-1,0,0
 249 WL=0,-2.3958*2.8/3,0
 250 TRAP=0,0,0,1.4,-2.3958*2.8,0,2.8,0,0
 251 TRAP=0,-2.3958*1.5,0,1.5,-2.3958*3,0,2.5,-2.3958*3,0,4,0,0
 252 TRAP=0,0,0,1.5,-2.3958*3,0,2.5,-2.3958*3,0,4,0,0
 253 TRAP=0,0,0,1.5,-2.3958*1.5,0,2.5,-2.3958*1.5,0,3.3,-2.3958*7,0 \ WL=0,-2.6037,0
 254 WL=0,-5.1759,0
 255 TRAP=0,0,0,1.4,-2.3958*1.4,0,2.6,-2.3958*1.4,0,4,0,0 WL=0,-3.8333*4/3,0
 256 TRAP=0,0,0,1.4,-2.3958*1.4,0,1.6,-2.3958*1.4,0,3,0,0 WL=0,-3.8333,0
 257 TRAP=0,0,0,1.5,-2.3958*2,0,4,-2.3958*2,0,4,2,-2.3958*1.8,0
 258 TRAP=0,-1.4375*1.8,0,-1,-2.3958*1.8,0
 259 TRAP=0,-1.4375*1.8,0,2,-1.4375*2,0,3.8,-1.4375*2,0,4,-1.4375*1.8,0 \ WL=0,-2.3958*4/3,0
 260 TRAP=0,-2.3958*1.8,0,1.8,-1.4375*1.8,0
 261 TRAP=0,-2.3958*1.8,0,-0.909,-2.3958*2,0,-1,0,0
 262 TRAP=0,0,0,2,-1.4375*2,0,5.6,-1.4375,0,7.6,0,0
 263 WL=0,-2.3958*2.2/3,0
 C ***** BEBAN MATI BORDES *****
 264 WL=0,-2.1783,0
 265 WL=0,-1.1402,0
 266 WL=0,-0.1586,0
 C ***** BEBAN HIDUP BORDES *****
 267 WL=0,-1.3907,0
 268 WL=0,-1.0086,0
 269 WL=0,-0.6483,0
 C *** BEBAN TANGGA ***
 270 TRAP=0,0,0,1.5,-4.5041*1.5,0,3,0,0 WL=0,-26.5537,0
 271 TRAP=0,0,0,1.5,-4.5041*1.5,0,3,0,0 WL=0,-37.7796,0
 272 TRAP=0,0,0,2,-4.5041*2,0,3,-4.5041,0 PLD=1.5,-15.7778,0 WL=0,-26.5537,0
 273 TRAP=0,0,0,1.5,-2.3958*1.5,0,3,0,0 WL=0,-10.6694,0
 274 TRAP=0,0,0,1.5,-2.3958*1.5,0,3,0,0 WL=0,-14.9024,0
 275 TRAP=0,0,0,2,-2.3958*2,0,3,-2.3958,0 WL=0,-10.6694,0
 276 TRAP=0,0,0,2,-2.3958*2,0,3,-2.3958,0 WL=0,-14.9024,0
 C *** BEBAN DINDING ***
 277 WL=0,-3.2*2.3958,0
 278 WL=0,-4*2.3958,0
 279 WL=0,-4.72*2.3958,0
 280 WL=0,-3.18*2.3958,0
 281 WL=0,-4.75*2.3958,0
 282 WL=0,-1*2.3958,0
 283 WL=0,-2.25*2.3958,0
 284 WL=0,-2.18*2.3958,0
 285 WL=0,-2.5*2.3958,0
 C DATA LOKASI ELEMEN BATANG
 C *** ELEMEN LANTAI ATAP ***
 1 2 M=2 LP=-2,0 RE=0.35,0.3 MS=100,100 NSL=0,1,139 G=1,53,70,70
 2 2 3 RE=0.3,0.3 MS=100,100 NSL=0,3,141 G=1,53,70,70
 3 4 5 RE=0.3,0.3 MS=100,100 NSL=0,3,141
 4 5 6 RE=0.3,0.3 MS=100,100 NSL=0,1,139 G=5,1,1,1
 10 12 13 RE=0.3,0.3 MS=100,100 NSL=0,1,139 G=5,1,1,1
 16 19 20 M=3 LP=-2,0 RE=0.35,0.15 MS=100,100 NSL=0,20,158 G=1,18,21,21
 17 20 21 RE=0.15,0.15 MS=100,100 NSL=0,21,159 G=1,18,21,21
 18 21 22 RE=0.15,0.15 MS=100,100 NSL=0,22,160 G=1,18,21,21
 19 23 24 M=2 LP=-2,0 RE=0.35,0.15 MS=100,100 NSL=0,5,143
 20 24 25 RE=0.15,0.3 MS=100,100 NSL=0,6,144
 21 25 26 RE=0.3,0.3 MS=100,100 NSL=0,4,142
 22 26 27 RE=0.3,0.125 MS=100,100 NSL=0,2,140 G=2,2,2,2
 23 27 28 RE=0.125,0.3 MS=100,100 NSL=0,2,140 G=2,2,2,2
 28 33 34 RE=0.3,0.125 MS=100,100 NSL=0,2,140 G=2,2,2,2
 29 34 35 RE=0.125,0.3 MS=100,100 NSL=0,2,140 G=2,2,2,2
 37 44 45 RE=0.3,0.125 MS=100,100 NSL=0,2,140 G=1,2,2,2
 38 45 46 RE=0.125,0.3 MS=100,100 NSL=0,2,140 G=1,2,2,2
 41 48 49 RE=0.3,0.15 MS=100,100 NSL=0,38,176
 42 49 50 RE=0.15,0.15 MS=100,100 NSL=0,39,177

43	50	51		RE=0.15,0.15	MS=100,100	NSL=0.40,178	
44	51	52		RE=0.15,0.3	MS=100,100	NSL=0.41,179	
45	53	54	M=2 LP=-2,0	RE=0.3,0.125	MS=100,100	NSL=0.2,140	G=2,2,2,2
46	54	55		RE=0.125,0.3	MS=100,100	NSL=0.2,140	G=2,2,2,2
51	60	61		RE=0.075,0.75	MS=100,100	NSL=0.4,142	
52	66	67	M=3 LP=-2,0	RE=0.15,0.15	MS=100,100	NSL=0.42,180	
53	67	68		RE=0.15,0.3	MS=100,100	NSL=0.36,174	
56	86	87		RE=0.3,0.3	MS=100,100	NSL=0.3,141	G=1,13,6,6
57	75	76	M=2 LP=-2,0	RE=0.3,0.3	MS=100,100	NSL=0.1,139	G=3,1,1,1
61	88	89	M=3 LP=-2,0	RE=0.3,0.3	MS=100,100	NSL=0.7,145	
62	89	90		RE=0.3,0.3	MS=100,100		
63	90	91		RE=0.3,0.3	MS=100,100	NSL=0.9,147	
64	80	81	M=2 LP=-2,0	RE=0.3,0.3	MS=100,100	NSL=0.1,139	G=4,1,1,1
70	69	70		RE=0.3,0.3	MS=100,100	NSL=0.13,151	
71	62	63		RE=0.3,0.3	MS=100,100	NSL=0.10,148	G=1,1,2,2
73	1	19	M=2 LP= 3,0	RE=0.35,0.35	MS=100,100	NSL=0.1,139	G=1,1,18,4
75	23	40		RE=0.35,0.35	MS=100,100	NSL=0.1,139	G=1,1,17,31
77	2	20	M=3 LP= 3,0	RE=0.3,0.15	MS=100,100	NSL=0.14,152	G=1,1,39,52
79	3	4	M=2 LP= 3,0	RE=0.3,0.3	MS=100,100	NSL=0.23,161	
80	4	22		RE=0.3,0.15	MS=100,100	NSL=0.24,162	
81	22	25		RE=0.15,0.3	MS=100,100	NSL=0.25,163	
82	25	43		RE=0.3,0.15	MS=100,100	NSL=0.26,164	
83	43	60		RE=0.15,0.075	MS=100,100	NSL=0.27,165	
84	60	73		RE=0.075,0.3	MS=100,100	NSL=0.28,166	
85	73	74		RE=0.3,0.3	MS=100,100	NSL=0.29,167	
86	5	26		RE=0.3,0.3	MS=100,100	NSL=0.18,156	
87	26	44		RE=0.3,0.3	MS=100,100	NSL=0.14,152	
88	44	61		RE=0.3,0.075	MS=100,100	NSL=0.31,169	
89	61	75		RE=0.075,0.3	MS=100,100	NSL=0.32,170	
90	6	27	M=3 LP= 3,0	RE=0.3,0.125	MS=100,100	NSL=0.12,150	G=1,6,2,2
91	27	45		RE=0.125,0.125	MS=100,100	NSL=0.2,140	G=1,6,2,2
92	45	76		RE=0.125,0.3	MS=100,100	NSL=0.12,150	G=1,6,2,2
93	7	28	M=2 LP= 3,0	RE=0.3,0.3	MS=100,100	NSL=0.12,150	G=1,2,39,49
94	28	46		RE=0.3,0.3	MS=100,100	NSL=0.2,140	G=1,6,2,2
99	9	30		RE=0.3,0.3	MS=100,100	NSL=0.12,150	
101	48	62		RE=0.3,0.3	MS=100,100	NSL=0.33,171	
102	62	69		RE=0.3,0.3	MS=100,100	NSL=0.34,172	
103	69	79		RE=0.3,0.3	MS=100,100	NSL=0.35,173	
104	79	88		RE=0.3,0.3	MS=100,100	NSL=0.36,174	
105	49	63		RE=0.15,0.3	MS=100,100	NSL=0.8,146	
106	63	70		RE=0.3,0.3	MS=100,100	NSL=0.8,146	
107	70	89	M=3 LP= 3,0	RE=0.3,0.3	MS=100,100	NSL=0.15,153	
108	10	31		RE=0.3,0.125	MS=100,100	NSL=0.12,150	
109	31	50		RE=0.125,0.15	MS=100,100	NSL=0.2,140	
110	51	64	M=2 LP= 3,0	RE=0.15,0.3	MS=100,100	NSL=0.8,146	
111	64	90	M=3 LP= 3,0	RE=0.3,0.3	MS=100,100	NSL=0.16,154	
112	11	33	M=2 LP= 3,0	RE=0.3,0.3	MS=100,100	NSL=0.43,181	
113	33	32		RE=0.3,0.3	MS=100,100	NSL=0.35,173	
114	32	53		RE=0.3,0.3	MS=100,100	NSL=0.44,182	
115	53	52		RE=0.3,0.3	MS=100,100	NSL=0.35,173	
116	52	65		RE=0.3,0.3	MS=100,100	NSL=0.45,183	
117	65	80		RE=0.3,0.3	MS=100,100	NSL=0.46,184	
118	80	91		RE=0.3,0.3	MS=100,100	NSL=0.47,185	
119	13	34	M=3 LP= 3,0	RE=0.3,0.125	MS=100,100	NSL=0.12,150	G=2,6,2,2
120	34	54		RE=0.125,0.125	MS=100,100	NSL=0.2,140	G=2,6,2,2
121	54	81		RE=0.125,0.3	MS=100,100	NSL=0.12,150	G=1,6,2,2
122	14	35	M=2 LP= 3,0	RE=0.3,0.3	MS=100,100	NSL=0.12,150	G=1,2,41,47
123	35	55		RE=0.3,0.3	MS=100,100	NSL=0.2,140	G=1,6,2,2
128	16	37		RE=0.3,0.3	MS=100,100	NSL=0.12,150	G=1,2,41,47
133	58	66	M=3 LP= 3,0	RE=0.125,0.15	MS=100,100	NSL=0.48,186	
134	66	85		RE=0.15,0.3	MS=100,100	NSL=0.49,187	
135	85	92		RE=0.3,0.3	MS=100,100	NSL=0.50,188	
136	18	39	M=2 LP= 3,0	RE=0.3,0.3	MS=100,100	NSL=0.11,149	
137	39	59		RE=0.3,0.3	MS=100,100	NSL=0.1,139	G=1,1,20,9
139	67	93	M=3 LP= 3,0	RE=0.15,0.3	MS=100,100	NSL=0.19,157	
140	21	24	M=4 LP= 3,0	RE=0.15,0.15	MS=100,100	NSL=0.17,155	G=1,1,3,18
142	74	86	M=2 LP= 3,0	RE=0.3,0.3	MS=100,100	NSL=0.30,168	G=1,1,1,1
144	12	11		RE=0.3,0.3	MS=100,100	NSL=0.36,174	
145	43	44	M=2 LP=-2,0	RE=0.15,0.3	MS=100,100	NSL=0.4,142	

C *** ELEMEN LANTAI 4 ***

151 101 102	M=2 LP=-2,0	RE=0.35,0.3	MS=200,200	NSL=277,51,189	G=1,53,70,70
152 102 103		RE=0.3,0.3	MS=200,200	NSL=277,53,191	G=1,53,70,70
153 104 105		RE=0.3,0.3	MS=200,200	NSL=277,53,191	
154 105 106		RE=0.3,0.3	MS=200,200	NSL=277,51,189	G=5,1,1,1
160 112 113		RE=0.3,0.3	MS=200,200	NSL=277,51,189	G=5,1,1,1
166 119 120	M=3 LP=-2,0	RE=0.35,0.15	MS=200,200	NSL=277,77,208	G=1,18,21,21
167 120 121		RE=0.15,0.15	MS=200,200	NSL=277,78,209	G=1,18,21,21
168 121 122		RE=0.15,0.15	MS=200,200	NSL=277,79,210	G=1,18,21,21
169 123 124	M=2 LP=-2,0	RE=0.35,0.15	MS=200,200	NSL=277,55,193	
170 124 125		RE=0.15,0.3	MS=200,200	NSL=277,56,194	
171 125 126		RE=0.3,0.3	MS=200,200	NSL=277,54,192	
172 126 127		RE=0.3,0.125	MS=200,200	NSL=277,73,190	G=2,2,2,2
173 127 128		RE=0.125,0.3	MS=200,200	NSL=277,74,190	G=2,2,2,2
178 133 134		RE=0.3,0.125	MS=200,200	NSL=277,73,190	G=2,2,2,2
179 134 135		RE=0.125,0.3	MS=200,200	NSL=277,74,190	G=2,2,2,2
187 144 145		RE=0.3,0.125	MS=200,200	NSL=277,73,190	G=1,2,2,2
188 145 146		RE=0.125,0.3	MS=200,200	NSL=277,74,190	G=1,2,2,2
191 148 149		RE=0.3,0.15	MS=200,200	NSL=277,64,200	
192 149 150		RE=0.15,0.15	MS=200,200	NSL=0,65,201	
193 150 151		RE=0.15,0.15	MS=200,200	NSL=0,66,202	
194 151 152		RE=0.15,0.3	MS=200,200	NSL=277,67,203	
195 153 154		RE=0.3,0.125	MS=200,200	NSL=277,73,190	G=2,2,2,2
196 154 155		RE=0.125,0.3	MS=200,200	NSL=277,74,190	G=1,2,2,2
200 158 159		RE=0.125,0.3	MS=200,200	NSL=277,80,190	
201 160 161	M=3 LP=-2,0	RE=0.075,0.075	MS=200,200	NSL=0,53,191	
202 166 167		RE=0.15,0.15	MS=200,200	NSL=0,81,211	
203 167 168		RE=0.15,0.3	MS=200,200	NSL=277,82,212	
207 175 176	M=2 LP=-2,0	RE=0.3,0.3	MS=200,200	NSL=277,54,192	G=3,1,1,1
211 188 189	M=3 LP=-2,0	RE=0.3,0.3	MS=200,200	NSL=277,57,195	
212 189 190		RE=0.3,0.3	MS=200,200	NSL=277	
213 190 191		RE=0.3,0.3	MS=200,200	NSL=277,59,197	
214 180 181	M=2 LP=-2,0	RE=0.3,0.3	MS=200,200	NSL=277,51,189	G=4,1,1,1
220 169 170		RE=0.3,0.3	MS=200,200	NSL=277,57,195	
221 162 163		RE=0.3,0.3	MS=200,200	NSL=277	
222 164 165		RE=0.3,0.3	MS=200,200	NSL=277,59,197	
223 101 119	M=2 LP= 3,0	RE=0.35,0.35	MS=200,200	NSL=277,51,189	G=1,1,18,4
225 123 140		RE=0.35,0.35	MS=200,200	NSL=277,51,189	G=1,1,17,31
227 102 120	M=3 LP= 3,0	RE=0.3,0.15	MS=200,200	NSL=277,72,207	G=1,1,39,52
229 103 104	M=2 LP= 3,0	RE=0.3,0.3	MS=200,200	NSL=277,83,213	
230 104 122		RE=0.3,0.15	MS=200,200	NSL=277,84,214	
231 122 125		RE=0.15,0.3	MS=200,200	NSL=277,85,215	
232 125 143		RE=0.3,0.15	MS=200,200	NSL=277,86,216	
233 143 160		RE=0.15,0.075	MS=200,200	NSL=277,87,217	
234 160 173		RE=0.075,0.3	MS=200,200	NSL=277,88,218	
235 173 174		RE=0.3,0.3	MS=200,200	NSL=277	
236 105 126		RE=0.3,0.3	MS=200,200	NSL=277,89,219	
237 126 144		RE=0.3,0.3	MS=200,200	NSL=0,90,220	
238 144 161		RE=0.3,0.075	MS=200,200	NSL=277,91,221	
239 161 175		RE=0.075,0.3	MS=200,200	NSL=277,92,222	
240 106 127	M=3 LP= 3,0	RE=0.3,0.125	MS=200,200	NSL=277,62,199	G=1,6,2,2
241 127 145		RE=0.125,0.125	MS=200,200	NSL=0,75,190	G=1,6,2,2
242 145 176		RE=0.125,0.3	MS=200,200	NSL=277,63,199	G=1,6,2,2
243 107 128	M=2 LP= 3,0	RE=0.3,0.3	MS=200,200	NSL=277,61,199	G=1,2,39,49
244 128 146		RE=0.3,0.3	MS=200,200	NSL=0,52,190	G=1,6,2,2
249 109 130		RE=0.3,0.3	MS=200,200	NSL=277,61,199	
251 148 162		RE=0.3,0.3	MS=200,200	NSL=277,93,223	
252 162 169		RE=0.3,0.3	MS=200,200	NSL=277,94,224	
253 169 179		RE=0.3,0.3	MS=200,200	NSL=277,95,225	
254 179 188		RE=0.3,0.3	MS=200,200	NSL=277,82,212	
255 149 163		RE=0.15,0.3	MS=200,200	NSL=277,58,196	
256 163 170		RE=0.3,0.3	MS=200,200	NSL=277,58,196	
257 170 189	M=3 LP= 3,0	RE=0.3,0.3	MS=200,200	NSL=277,70,205	
258 110 131		RE=0.3,0.125	MS=200,200	NSL=277,62,199	
259 131 150		RE=0.125,0.15	MS=200,200	NSL=0,96,190	
260 151 164	M=2 LP= 3,0	RE=0.15,0.3	MS=200,200	NSL=277,58,196	
261 164 190	M=3 LP= 3,0	RE=0.3,0.3	MS=200,200	NSL=277,71,206	
262 111 133	M=2 LP= 3,0	RE=0.3,0.3	MS=200,200	NSL=277,97,226	
263 133 132		RE=0.3,0.3	MS=200,200	NSL=277,95,225	
264 132 153		RE=0.3,0.3	MS=200,200	NSL=0,98,227	

265 153 152	RE=0.3,0.3	MS=200,200	NSL=277,95,225	
266 152 165	RE=0.3,0.3	MS=200,200	NSL=277,99,228	
267 165 180	RE=0.3,0.3	MS=200,200	NSL=277,100,229	
268 180 191	RE=0.3,0.3	MS=200,200	NSL=277,101,230	
269 113 134 M=3 LP= 3,0	RE=0.3,0.125	MS=200,200	NSL=277,62,199	G=2,6,2,2
270 134 154	RE=0.125,0.125	MS=200,200	NSL=0,75,190	G=1,6,2,2
271 154 181	RE=0.125,0.3	MS=200,200	NSL=277,63,199	G=1,6,2,2
272 114 135 M=2 LP= 3,0	RE=0.3,0.3	MS=200,200	NSL=277,61,199	G=1,2,41,47
273 135 155	RE=0.3,0.3	MS=200,200	NSL=0,52,190	G=1,6,2,2
278 116 137	RE=0.3,0.3	MS=200,200	NSL=277,61,199	G=1,2,41,47
282 138 158 M=3 LP= 3,0	RE=0.125,0.125	MS=200,200	NSL=0,76,190	
283 158 166	RE=0.125,0.15	MS=200,200	NSL=277,102,231	
284 166 185	RE=0.15,0.3	MS=200,200	NSL=277,103,232	
285 185 192	RE=0.3,0.3	MS=200,200	NSL=277	
286 118 139 M=2 LP= 3,0	RE=0.3,0.3	MS=200,200	NSL=277,60,198	
287 139 159	RE=0.3,0.3	MS=200,200	NSL=277,51,189	G=1,1,20,9
289 167 193 M=3 LP= 3,0	RE=0.15,0.3	MS=200,200	NSL=277	
290 121 124 M=4 LP= 3,0	RE=0.15,0.15	MS=200,200	NSL=277,68,204	
291 124 142	RE=0.15,0.15	MS=200,200	NSL=277,69,204	
292 174 186 M=2 LP= 3,0	RE=0.3,0.3	MS=200,200	NSL=277	
293 175 187	RE=0.3,0.3	MS=200,200	NSL=277	
294 112 111	RE=0.3,0.3	MS=200,200	NSL=277,104,233	
295 143 144 M=2 LP=-2,0	RE=0.15,0.3	MS=200,200	NSL=277,54,192	
C *** ELEMEN LANTAI 3 ***				
301 201 202 M=2 LP=-2,0	RE=0.35,0.3	MS=300,300	NSL=277,51,189	G=1,53,70,70
302 202 203	RE=0.3,0.3	MS=300,300	NSL=277,53,191	G=1,53,70,70
303 204 205	RE=0.3,0.3	MS=300,300	NSL=277,53,191	
304 205 206	RE=0.3,0.3	MS=300,300	NSL=277,51,189	G=5,1,1,1
310 212 213	RE=0.3,0.3	MS=300,300	NSL=277,51,189	G=5,1,1,1
316 219 220 M=3 LP=-2,0	RE=0.35,0.15	MS=300,300	NSL=277,77,208	G=1,18,21,21
317 220 221	RE=0.15,0.15	MS=300,300	NSL=277,78,209	G=1,18,21,21
318 221 222	RE=0.15,0.15	MS=300,300	NSL=277,79,210	G=1,18,21,21
319 223 224 M=2 LP=-2,0	RE=0.35,0.15	MS=300,300	NSL=277,55,193	
320 224 225	RE=0.15,0.3	MS=300,300	NSL=277,56,194	
321 225 226	RE=0.3,0.3	MS=300,300	NSL=277,54,192	
322 226 227	RE=0.3,0.125	MS=300,300	NSL=277,73,190	G=2,2,2,2
323 227 228	RE=0.125,0.3	MS=300,300	NSL=277,74,190	G=2,2,2,2
328 233 234	RE=0.3,0.125	MS=300,300	NSL=277,73,190	G=2,2,2,2
329 234 235	RE=0.125,0.3	MS=300,300	NSL=277,74,190	G=2,2,2,2
337 244 245	RE=0.3,0.125	MS=300,300	NSL=277,73,190	G=1,2,2,2
338 245 246	RE=0.125,0.3	MS=300,300	NSL=277,74,190	G=1,2,2,2
341 248 249	RE=0.3,0.15	MS=300,300	NSL=277,64,200	
342 249 250	RE=0.15,0.15	MS=300,300	NSL=0,65,201	
343 250 251	RE=0.15,0.15	MS=300,300	NSL=0,66,202	
344 251 252	RE=0.15,0.3	MS=300,300	NSL=277,67,203	
345 253 254	RE=0.3,0.125	MS=300,300	NSL=277,73,190	G=2,2,2,2
346 254 255	RE=0.125,0.3	MS=300,300	NSL=277,74,190	G=1,2,2,2
350 258 259	RE=0.125,0.3	MS=300,300	NSL=277,80,190	
351 260 261 M=3 LP=-2,0	RE=0.075,0.075	MS=300,300	NSL=0,53,191	
352 266 267	RE=0.15,0.15	MS=300,300	NSL=0,81,211	
353 267 268	RE=0.15,0.3	MS=300,300	NSL=277,82,212	
357 275 276 M=2 LP=-2,0	RE=0.3,0.3	MS=300,300	NSL=277,54,192	G=3,1,1,1
361 288 289 M=3 LP=-2,0	RE=0.3,0.3	MS=300,300	NSL=277,57,195	
362 289 290	RE=0.3,0.3	MS=300,300	NSL=277	
363 290 291	RE=0.3,0.3	MS=300,300	NSL=277,59,197	
364 280 281 M=2 LP=-2,0	RE=0.3,0.3	MS=300,300	NSL=277,51,189	G=4,1,1,1
370 269 270	RE=0.3,0.3	MS=300,300	NSL=277,57,195	
371 262 263	RE=0.3,0.3	MS=300,300	NSL=277	
372 264 265	RE=0.3,0.3	MS=300,300	NSL=277,59,197	
373 201 219 M=2 LP= 3,0	RE=0.35,0.35	MS=300,300	NSL=277,51,189	G=1,1,18,4
375 223 240	RE=0.35,0.35	MS=300,300	NSL=277,51,189	G=1,1,17,31
377 202 220 M=3 LP= 3,0	RE=0.3,0.15	MS=300,300	NSL=277,72,207	G=1,1,39,52
379 203 204 M=2 LP= 3,0	RE=0.3,0.3	MS=300,300	NSL=277,83,213	
380 204 222	RE=0.3,0.15	MS=300,300	NSL=277,84,214	
381 222 225	RE=0.15,0.3	MS=300,300	NSL=277,85,215	
382 225 243	RE=0.3,0.15	MS=300,300	NSL=0,86,216	
383 243 260	RE=0.15,0.075	MS=300,300	NSL=277,87,217	
384 260 273	RE=0.075,0.3	MS=300,300	NSL=277,88,218	
385 273 274	RE=0.3,0.3	MS=300,300	NSL=277	
386 205 226	RE=0.3,0.3	MS=300,300	NSL=277,89,219	

387 226 244	RE=0.3,0.3	MS=300,300	NSL=0,90,220	
388 244 261	RE=0.3,0.075	MS=300,300	NSL=277,91,221	
389 261 275	RE=0.075,0.3	MS=300,300	NSL=277,92,222	
390 206 227 M=3 LP= 3,0	RE=0.3,0.125	MS=300,300	NSL=277,62,199	G=1,6,2,2
391 227 245	RE=0.125,0.125	MS=300,300	NSL=0,75,190	G=1,6,2,2
392 245 276	RE=0.125,0.3	MS=300,300	NSL=277,63,199	G=1,6,2,2
393 207 228 M=2 LP= 3,0	RE=0.3,0.3	MS=300,300	NSL=277,61,199	G=1,2,39,49
394 228 246	RE=0.3,0.3	MS=300,300	NSL=0,52,190	G=1,6,2,2
399 209 230	RE=0.3,0.3	MS=300,300	NSL=277,61,199	
401 248 262	RE=0.3,0.3	MS=300,300	NSL=277,93,223	
402 262 269	RE=0.3,0.3	MS=300,300	NSL=277,94,224	
403 269 279	RE=0.3,0.3	MS=300,300	NSL=277,95,225	
404 279 288	RE=0.3,0.3	MS=300,300	NSL=277,82,212	
405 249 263	RE=0.15,0.3	MS=300,300	NSL=277,58,196	
406 263 270	RE=0.3,0.3	MS=300,300	NSL=277,58,196	
407 270 289 M=3 LP= 3,0	RE=0.3,0.3	MS=300,300	NSL=277,70,205	
408 210 231	RE=0.3,0.125	MS=300,300	NSL=277,62,199	
409 231 250	RE=0.125,0.15	MS=300,300	NSL=0,96,190	
410 251 264 M=2 LP= 3,0	RE=0.15,0.3	MS=300,300	NSL=277,58,196	
411 264 290 M=3 LP= 3,0	RE=0.3,0.3	MS=300,300	NSL=277,71,206	
412 211 233 M=2 LP= 3,0	RE=0.3,0.3	MS=300,300	NSL=277,97,226	
413 233 232	RE=0.3,0.3	MS=300,300	NSL=277,95,225	
414 232 253	RE=0.3,0.3	MS=300,300	NSL=0,98,227	
415 253 252	RE=0.3,0.3	MS=300,300	NSL=277,95,225	
416 252 265	RE=0.3,0.3	MS=300,300	NSL=277,99,228	
417 265 280	RE=0.3,0.3	MS=300,300	NSL=277,100,229	
418 280 291	RE=0.3,0.3	MS=300,300	NSL=277,101,230	
419 213 234 M=3 LP= 3,0	RE=0.3,0.125	MS=300,300	NSL=277,62,199	G=2,6,2,2
420 234 254	RE=0.125,0.125	MS=300,300	NSL=0,75,190	G=1,6,2,2
421 254 281	RE=0.125,0.3	MS=300,300	NSL=277,63,199	G=1,6,2,2
422 214 235 M=2 LP= 3,0	RE=0.3,0.3	MS=300,300	NSL=277,61,199	G=1,2,41,47
423 235 255	RE=0.3,0.3	MS=300,300	NSL=0,52,190	G=1,6,2,2
428 216 237	RE=0.3,0.3	MS=300,300	NSL=277,61,199	G=1,2,41,47
432 238 258 M=3 LP= 3,0	RE=0.125,0.125	MS=300,300	NSL=0,76,190	
433 258 266	RE=0.125,0.15	MS=300,300	NSL=277,102,231	
434 266 285	RE=0.15,0.3	MS=300,300	NSL=277,103,232	
435 285 292	RE=0.3,0.3	MS=300,300	NSL=277	
436 218 239 M=2 LP= 3,0	RE=0.3,0.3	MS=300,300	NSL=277,60,198	
437 239 259	RE=0.3,0.3	MS=300,300	NSL=277,51,189	G=1,1,20,9
439 267 293 M=3 LP= 3,0	RE=0.15,0.3	MS=300,300	NSL=277	
440 221 224 M=4 LP= 3,0	RE=0.15,0.15	MS=300,300	NSL=277,68,204	
441 224 242	RE=0.15,0.15	MS=300,300	NSL=277,69,204	
442 274 286 M=2 LP= 3,0	RE=0.3,0.3	MS=300,300	NSL=277	
443 275 287	RE=0.3,0.3	MS=300,300	NSL=277	
444 212 211	RE=0.3,0.3	MS=300,300	NSL=277,104,233	
445 243 244 M=2 LP=-2,0	RE=0.15,0.3	MS=300,300	NSL=277,54,192	
C *** ELEMEN LANTAI 2 ***				
451 301 302 M=2 LP=-2,0	RE=0.4,0.35	MS=400,400	NSL=277,51,189	G=1,53,70,70
452 302 303	RE=0.35,0.35	MS=400,400	NSL=277,53,191	G=1,53,70,70
453 304 305	RE=0.35,0.35	MS=400,400	NSL=277,53,191	
454 305 306	RE=0.35,0.35	MS=400,400	NSL=277,51,189	G=5,1,1,1
460 312 313	RE=0.35,0.35	MS=400,400	NSL=277,51,189	G=5,1,1,1
466 319 320 M=3 LP=-2,0	RE=0.4,0.3	MS=400,400	NSL=277,77,208	G=1,18,21,21
467 320 321	RE=0.3,0.3	MS=400,400	NSL=277,78,209	G=1,18,21,21
468 321 322	RE=0.3,0.3	MS=400,400	NSL=277,79,210	G=1,18,21,21
469 323 324 M=2 LP=-2,0	RE=0.4,0.3	MS=400,400	NSL=277,55,193	
470 324 325	RE=0.3,0.35	MS=400,400	NSL=277,56,194	
471 325 326	RE=0.35,0.35	MS=400,400	NSL=277,54,192	
472 326 327	RE=0.35,0.15	MS=400,400	NSL=277,73,190	G=2,2,2,2
473 327 328	RE=0.15,0.35	MS=400,400	NSL=277,74,190	G=2,2,2,2
478 333 334	RE=0.35,0.15	MS=400,400	NSL=277,73,190	G=2,2,2,2
479 334 335	RE=0.15,0.35	MS=400,400	NSL=277,74,190	G=2,2,2,2
487 344 345	RE=0.35,0.15	MS=400,400	NSL=277,73,190	G=1,2,2,2
488 345 346	RE=0.15,0.35	MS=400,400	NSL=277,74,190	G=1,2,2,2
491 348 349	RE=0.35,0.3	MS=400,400	NSL=277,64,200	
492 349 350	RE=0.3,0.3	MS=400,400	NSL=277,65,201	
493 350 351	RE=0.3,0.3	MS=400,400	NSL=0,66,202	
494 351 352	RE=0.3,0.35	MS=400,400	NSL=0,67,203	
495 353 354	RE=0.35,0.15	MS=400,400	NSL=277,73,190	G=2,2,2,2
496 354 355	RE=0.15,0.35	MS=400,400	NSL=277,74,190	G=1,2,2,2

500 358 359		RE=0.15,0.35	MS=400,400	NSL=277,80,190
501 360 361	M=3 LP=-2,0	RE=0.125,0.125	MS=400,400	NSL=0,270,273
502 366 367		RE=0.3,0.3	MS=400,400	NSL=0,272,275
503 367 368		RE=0.3,0.35	MS=400,400	NSL=277,82,212
507 375 376	M=2 LP=-2,0	RE=0.35,0.35	MS=400,400	NSL=277,54,192 G=3,1,1,1
511 388 389	M=3 LP=-2,0	RE=0.35,0.35	MS=400,400	NSL=277,57,195
512 389 390		RE=0.35,0.35	MS=400,400	NSL=277
513 390 391		RE=0.35,0.35	MS=400,400	NSL=277,59,197
514 380 381	M=2 LP=-2,0	RE=0.35,0.35	MS=400,400	NSL=277,51,189
515 381 382		RE=0.35,0.35	MS=400,400	NSL=277,105,234 G=3,1,1,1
519 392 393	M=3 LP=-2,0	RE=0.35,0.35	MS=400,400	NSL=284,107,236
520 369 370	M=2 LP=-2,0	RE=0.35,0.35	MS=400,400	NSL=277,57,195
521 362 363		RE=0.35,0.35	MS=400,400	NSL=277
522 364 365		RE=0.35,0.35	MS=400,400	NSL=277,59,197
523 301 319	M=2 LP= 3,0	RE=0.4,0.4	MS=400,400	NSL=277,51,189 G=1,1,18,4
525 323 340		RE=0.4,0.4	MS=400,400	NSL=277,51,189 G=1,1,17,31
527 302 320	M=3 LP= 3,0	RE=0.35,0.3	MS=400,400	NSL=277,72,207
528 341 372	M=3 LP= 3,0	RE=0.3,0.35	MS=400,400	NSL=277,72,207
529 303 304	M=2 LP= 3,0	RE=0.35,0.35	MS=400,400	NSL=277,83,213
530 304 322		RE=0.35,0.3	MS=400,400	NSL=277,84,214
531 322 325		RE=0.3,0.35	MS=400,400	NSL=277,85,215
532 325 343		RE=0.35,0.3	MS=400,400	NSL=277,86,216
533 343 360		RE=0.3,0.125	MS=400,400	NSL=277,87,217
534 360 373		RE=0.125,0.35	MS=400,400	NSL=277,88,218
535 373 374		RE=0.35,0.35	MS=400,400	NSL=277
536 305 326		RE=0.35,0.35	MS=400,400	NSL=277,89,219
537 326 344		RE=0.35,0.35	MS=400,400	NSL=0,90,220
538 344 361		RE=0.35,0.125	MS=400,400	NSL=277,91,221
539 361 375		RE=0.125,0.35	MS=400,400	NSL=277,92,222
540 306 327	M=3 LP= 3,0	RE=0.35,0.15	MS=400,400	NSL=277,62,199 G=1,6,2,2
541 327 345		RE=0.15,0.15	MS=400,400	NSL=0,75,190 G=1,6,2,2
542 345 376		RE=0.15,0.35	MS=400,400	NSL=277,63,199 G=1,6,2,2
543 307 328	M=2 LP= 3,0	RE=0.35,0.35	MS=400,400	NSL=277,61,199 G=1,2,39,49
544 328 346		RE=0.35,0.35	MS=400,400	NSL=0,52,190 G=1,6,2,2
549 309 330		RE=0.35,0.35	MS=400,400	NSL=277,61,199
551 348 362		RE=0.35,0.35	MS=400,400	NSL=277,93,223
552 362 369		RE=0.35,0.35	MS=400,400	NSL=277,94,224
553 369 379		RE=0.35,0.35	MS=400,400	NSL=277,95,225
554 379 388		RE=0.35,0.35	MS=400,400	NSL=277,82,212
555 349 363		RE=0.3,0.35	MS=400,400	NSL=277,58,196
556 363 370		RE=0.35,0.35	MS=400,400	NSL=277,58,196
557 370 389	M=3 LP= 3,0	RE=0.35,0.35	MS=400,400	NSL=277,70,205
558 310 331		RE=0.35,0.15	MS=400,400	NSL=277,62,199
559 331 350		RE=0.15,0.3	MS=400,400	NSL=0,96,190
560 351 364	M=2 LP= 3,0	RE=0.3,0.35	MS=400,400	NSL=277,58,196
561 364 390	M=3 LP= 3,0	RE=0.35,0.35	MS=400,400	NSL=277,71,206
562 311 333	M=2 LP= 3,0	RE=0.35,0.35	MS=400,400	NSL=277,97,226
563 333 332		RE=0.35,0.35	MS=400,400	NSL=277,95,225
564 332 353		RE=0.35,0.35	MS=400,400	NSL=0,98,227
565 353 352		RE=0.35,0.35	MS=400,400	NSL=277,95,225
566 352 365		RE=0.35,0.35	MS=400,400	NSL=277,99,228
567 365 380		RE=0.35,0.35	MS=400,400	NSL=277,100,229
568 380 391		RE=0.35,0.35	MS=400,400	NSL=277,101,230
569 313 334	M=3 LP= 3,0	RE=0.35,0.15	MS=400,400	NSL=277,62,199 G=2,6,2,2
570 334 354		RE=0.15,0.15	MS=400,400	NSL=0,75,190 G=1,6,2,2
571 354 381		RE=0.15,0.35	MS=400,400	NSL=277,63,199 G=1,6,2,2
572 314 335	M=2 LP= 3,0	RE=0.35,0.35	MS=400,400	NSL=277,61,199 G=1,2,41,47
573 335 355		RE=0.35,0.35	MS=400,400	NSL=0,52,190 G=1,6,2,2
578 316 337		RE=0.35,0.35	MS=400,400	NSL=277,61,199 G=1,2,41,47
582 338 358	M=3 LP= 3,0	RE=0.15,0.15	MS=400,400	NSL=0,76,190
583 358 366		RE=0.15,0.3	MS=400,400	NSL=277,102,231
584 366 385		RE=0.3,0.35	MS=400,400	NSL=277,103,232
585 385 392		RE=0.35,0.35	MS=400,400	NSL=277,110,239
586 318 339	M=2 LP= 3,0	RE=0.35,0.35	MS=400,400	NSL=277,60,198
587 339 359		RE=0.35,0.35	MS=400,400	NSL=277,51,189 G=1,1,20,9
589 367 393	M=3 LP= 3,0	RE=0.3,0.35	MS=400,400	NSL=277
590 321 324	M=4 LP= 3,0	RE=0.3,0.3	MS=400,400	NSL=277,68,204
591 324 342		RE=0.3,0.3	MS=400,400	NSL=277,69,204
592 374 386	M=2 LP= 3,0	RE=0.35,0.35	MS=400,400	NSL=277
593 375 387		RE=0.35,0.35	MS=400,400	NSL=277

594 312 311		RE=0.35,0.35	MS=400,400	NSL=277,104,233	
595 343 344 M=2 LP=-2,0		RE=0.3,0.35	MS=400,400	NSL=277,54,192	
596 601 602		RE=0.4,0.35	MS=400,400	NSL=277,106,235	G=2,1,1,1
599 604 392		RE=0.35,0.35	MS=400,400	NSL=277,106,235	
600 605 606 M=3 LP=-2,0		RE=0.4,0.35	MS=400,400	NSL=277,108,237	
601 606 607		RE=0.35,0.35	MS=400,400	NSL=277,108,237	G=2,1,1,1
604 609 610		RE=0.35,0.35	MS=400,400	NSL=277,109,238	
605 611 612 M=2 LP=-2,0		RE=0.4,0	MS=400,400	NSL=0,2,140	
606 612 613		RE=0,0.35	MS=400,400	NSL=0,2,140	G=2,10,12,12
607 613 614		RE=0.35,0	MS=400,400	NSL=0,2,140	G=2,10,12,12
608 614 615		RE=0,0.35	MS=400,400	NSL=0,2,140	
609 615 616		RE=0.35,0.35	MS=400,400	NSL=0,4,142	G=2,10,12,12
610 617 618 M=3 LP=-2,0		RE=0.4,0.35	MS=400,400	NSL=0,2,140	
611 618 619		RE=0.35,0	MS=400,400	NSL=0,2,140	
612 619 620		RE=0,0.35	MS=400,400	NSL=0,2,140	
613 620 621		RE=0.35,0.35	MS=400,400	NSL=0,2,140	
614 621 622		RE=0.35,0.35	MS=400,400	NSL=0,4,142	G=2,10,12,12
615 623 624 M=2 LP=-2,0		RE=0.4,0	MS=400,400	NSL=0,2,140	
618 626 628		RE=0.35,0.35	MS=400,400	NSL=0,2,140	
620 629 630 M=3 LP=-2,0		RE=0.4,0.35	MS=400,400	NSL=0,2,140	
621 630 631		RE=0.35,0	MS=400,400	NSL=0,2,140	
622 631 632		RE=0,0.35	MS=400,400	NSL=0,2,140	
623 632 633		RE=0.35,0.35	MS=400,400	NSL=0,2,140	
625 635 636 M=2 LP=-2,0		RE=0.4,0	MS=400,400	NSL=0,2,140	
628 638 639		RE=0,0.35	MS=400,400	NSL=0,2,140	
630 641 642 M=3 LP=-2,0		RE=0.4,0.35	MS=400,400	NSL=0,2,140	
631 642 643		RE=0.35,0	MS=400,400	NSL=0,2,140	
632 643 644		RE=0,0.35	MS=400,400	NSL=0,2,140	
633 644 645		RE=0.35,0.35	MS=400,400	NSL=0,2,140	
635 647 648 M=2 LP=-2,0		RE=0.4,0.4	MS=400,400	NSL=0,1,139	G=3,1,1,1
639 651 652		RE=0.4,0.4	MS=400,400	NSL=0,3,141	
640 381 601 M=2 LP= 3,0		RE=0.35,0.4	MS=400,400	NSL=0,110,239	
641 382 602 M=3 LP= 3,0		RE=0.35,0.35	MS=400,400	NSL=0,111,240	G=1,2,2,2
642 383 603 M=2 LP= 3,0		RE=0.35,0.35	MS=400,400	NSL=0,111,240	
644 601 605		RE=0.4,0.4	MS=400,400	NSL=0,112,241	
645 602 606 M=3 LP= 3,0		RE=0.35,0.35	MS=400,400	NSL=0,113,242	G=1,2,2,2
646 603 607 M=2 LP= 3,0		RE=0.35,0.35	MS=400,400	NSL=0,113,242	G=1,2,-211,2
649 393 610		RE=0.35,0.35	MS=400,400	NSL=0,112,241	
650 605 611		RE=0.4,0.4	MS=400,400	NSL=0,1,139	G=6,6,6,6
651 606 612 M=3 LP= 3,0		RE=0.35,0	MS=400,400	NSL=0,2,140	G=2,12,12,12
652 607 613 M=2 LP= 3,0		RE=0.35,0	MS=400,400	NSL=0,2,140	
653 608 614 M=3 LP= 3,0		RE=0.35,0	MS=400,400	NSL=0,2,140	G=2,12,12,12
654 609 615 M=2 LP= 3,0		RE=0.35,0.35	MS=400,400	NSL=0,14,152	G=5,6,6,6
655 610 616		RE=0.35,0.35	MS=400,400	NSL=0,114,243	G=5,6,6,6
657 612 618 M=3 LP= 3,0		RE=0,0.35	MS=400,400	NSL=0,2,140	G=2,12,12,12
658 613 619 M=2 LP= 3,0		RE=0.35,0	MS=400,400	NSL=0,2,140	G=2,12,12,12
664 619 625		RE=0,0.35	MS=400,400	NSL=0,2,140	G=1,12,12,12
659 614 620 M=3 LP= 3,0		RE=0,0.35	MS=400,400	NSL=0,2,140	G=2,12,12,12
687 642 648		RE=0.35,0.4	MS=400,400	NSL=0,2,140	
688 643 649 M=2 LP= 3,0		RE=0,0.4	MS=400,400	NSL=0,2,140	
689 644 650 M=3 LP= 3,0		RE=0.35,0.4	MS=400,400	NSL=0,2,140	
690 645 651 M=2 LP= 3,0		RE=0.35,0.4	MS=400,400	NSL=0,14,152	
691 646 652		RE=0.35,0.4	MS=400,400	NSL=0,114,243	
C *** ELEMEN LANTAI I ***					
701 401 402 M=2 LP=-2,0		RE=0.4,0.35	MS=500,500	NSL=278,51,189	G=1,55,70,70
702 402 403		RE=0.35,0.35	MS=500,500	NSL=278,53,191	G=1,55,70,70
703 404 405		RE=0.35,0.35	MS=500,500	NSL=278,53,191	
704 405 406		RE=0.35,0.35	MS=500,500	NSL=278,51,189	G=5,1,1,1
710 412 413		RE=0.35,0.35	MS=500,500	NSL=278	G=3,1,1,1
714 416 417		RE=0.35,0.35	MS=500,500	NSL=278,51,189	G=1,1,1,1
716 419 420 M=3 LP=-2,0		RE=0.4,0.3	MS=500,500	NSL=278,52,190	G=1,19,21,21
717 420 421 M=2 LP=-2,0		RE=0.3,0.3	MS=500,500	NSL=278,115,244	G=1,19,21,21
718 421 422		RE=0.3,0.3	MS=500,500	NSL=278,116,245	G=1,19,21,21
719 423 753 M=1 LP=-2,0		RE=0.4,0.35	MS=500,500	NSL=278,52,190	
720 753 424		RE=0.35,0.3	MS=500,500	NSL=278,115,244	
721 424 425		RE=0.3,0.35	MS=500,500	NSL=278,116,245	
722 425 426 M=2 LP=-2,0		RE=0.35,0.35	MS=500,500	NSL=278,54,192	
723 426 427		RE=0.35,0.15	MS=500,500	NSL=278,52,190	G=2,2,2,2
724 427 428		RE=0.15,0.35	MS=500,500	NSL=278,52,190	G=2,2,2,2
729 433 434		RE=0.35,0.15	MS=500,500	NSL=278,51,189	G=1,2,2,2

730 434 435	RE=0.15,0.35	MS=500,500	NSL=278,51,189	G=1,2,2,2
733 437 438	RE=0.35,0.15	MS=500,500	NSL=278,52,190	
734 438 439	RE=0.15,0.35	MS=500,500	NSL=278,52,190	
738 443 444	RE=0.30,0.35	MS=500,500	NSL=278,54,192	
739 444 445	RE=0.35,0.15	MS=500,500	NSL=278,52,190	G=1,2,2,2
740 445 446	RE=0.15,0.35	MS=500,500	NSL=278,52,190	G=1,2,2,2
743 448 449	RE=0.35,0.3	MS=500,500	NSL=278,64,200	
744 449 450	RE=0.3,0.3	MS=500,500	NSL=0,65,201	
745 450 451	RE=0.3,0.3	MS=500,500	NSL=0,66,202	
746 451 452	RE=0.3,0.35	MS=500,500	NSL=278,67,203	
747 453 454	RE=0.35,0.15	MS=500,500	NSL=278,52,190	G=2,2,2,2
748 454 455	RE=0.15,0.35	MS=500,500	NSL=278,52,190	G=2,2,2,2
753 460 461 M=3 LP=-2,0	RE=0.125,0.125	MS=500,500	NSL=0,271,274	
754 466 467	RE=0.3,0.3	MS=500,500	NSL=0,117,276	
755 467 468	RE=0.3,0.35	MS=500,500	NSL=278,82,212	
759 475 476 M=2 LP=-2,0	RE=0.35,0.35	MS=500,500	NSL=278,54,192	G=3,1,1,1
763 488 489 M=3 LP=-2,0	RE=0.35,0.35	MS=500,500	NSL=278,57,195	
764 489 490	RE=0.35,0.35	MS=500,500	NSL=278	
765 490 491	RE=0.35,0.35	MS=500,500	NSL=278,59,197	
766 480 481 M=2 LP=-2,0	RE=0.35,0.35	MS=500,500	NSL=278,51,189	
767 481 482	RE=0.35,0.35	MS=500,500	NSL=278,118,246	G=3,1,1,1
771 492 493 M=3 LP=-2,0	RE=0.35,0.35	MS=500,500	NSL=285,119,247	
772 469 470 M=2 LP=-2,0	RE=0.35,0.35	MS=500,500	NSL=278,57,195	
773 462 463	RE=0.35,0.35	MS=500,500	NSL=278	
774 464 465	RE=0.35,0.35	MS=500,500	NSL=278,59,197	
775 401 419 M=2 LP= 3,0	RE=0.4,0.4	MS=500,500	NSL=278,51,189	G=1,1,18,4
777 423 440	RE=0.4,0.4	MS=500,500	NSL=278,51,189	G=1,1,17,31
779 402 420 M=3 LP= 3,0	RE=0.35,0.3	MS=500,500	NSL=278,72,207	
780 420 753	RE=0.3,0.35	MS=500,500	NSL=278,72,207	
781 753 441	RE=0.35,0.3	MS=500,500	NSL=278,72,207	
782 441 472 M=3 LP= 3,0	RE=0.3,0.35	MS=500,500	NSL=278,72,207	
783 403 404 M=2 LP= 3,0	RE=0.35,0.35	MS=500,500	NSL=278,83,213	
784 404 422	RE=0.35,0.3	MS=500,500	NSL=278,124,214	
785 422 425	RE=0.3,0.35	MS=500,500	NSL=278,125,251	
786 425 443	RE=0.35,0.3	MS=500,500	NSL=278,126,252	
787 443 460	RE=0.3,0.125	MS=500,500	NSL=278,127,253	
788 460 473	RE=0.125,0.35	MS=500,500	NSL=278,88,218	
789 473 474	RE=0.35,0.35	MS=500,500	NSL=278	G=1,1,1,12
791 405 426	RE=0.35,0.35	MS=500,500	NSL=278,89,219	
792 426 444	RE=0.35,0.35	MS=500,500	NSL=0,90,220	
793 444 461	RE=0.35,0.125	MS=500,500	NSL=278,91,221	
794 461 475	RE=0.125,0.35	MS=500,500	NSL=278,92,222	
795 406 427 M=3 LP= 3,0	RE=0.35,0.15	MS=500,500	NSL=278,61,199	G=1,6,2,2
796 427 445	RE=0.15,0.15	MS=500,500	NSL=0,52,190	G=1,6,2,2
797 445 476	RE=0.15,0.35	MS=500,500	NSL=278,61,199	G=1,6,2,2
798 407 428 M=2 LP= 3,0	RE=0.35,0.35	MS=500,500	NSL=278,61,199	G=1,2,39,49
799 428 446	RE=0.35,0.35	MS=500,500	NSL=0,52,190	G=1,6,2,2
804 409 430	RE=0.35,0.35	MS=500,500	NSL=278,61,199	
806 448 462	RE=0.35,0.35	MS=500,500	NSL=278,93,223	
807 462 469	RE=0.35,0.35	MS=500,500	NSL=278,94,224	
808 469 479	RE=0.35,0.35	MS=500,500	NSL=278,95,225	
809 479 488	RE=0.35,0.35	MS=500,500	NSL=278,82,212	
810 449 463	RE=0.3,0.35	MS=500,500	NSL=278,58,196	
811 463 470	RE=0.35,0.35	MS=500,500	NSL=278,58,196	
812 470 489 M=3 LP= 3,0	RE=0.35,0.35	MS=500,500	NSL=278,70,205	
813 410 431	RE=0.35,0.15	MS=500,500	NSL=278,61,199	
814 431 450	RE=0.15,0.3	MS=500,500	NSL=0,52,190	
815 451 464 M=2 LP= 3,0	RE=0.3,0.35	MS=500,500	NSL=278,58,196	
816 464 490 M=3 LP= 3,0	RE=0.35,0.35	MS=500,500	NSL=278,71,206	
817 412 411 M=2 LP= 3,0	RE=0.35,0.35	MS=500,500	NSL=278,104,233	
818 411 433	RE=0.35,0.35	MS=500,500	NSL=278,97,226	
819 433 432	RE=0.35,0.35	MS=500,500	NSL=278,95,225	
820 432 453	RE=0.35,0.35	MS=500,500	NSL=0,98,227	
821 453 452	RE=0.35,0.35	MS=500,500	NSL=278,95,225	
822 452 465	RE=0.35,0.35	MS=500,500	NSL=278,99,228	
823 465 480	RE=0.35,0.35	MS=500,500	NSL=278,100,229	
824 480 491	RE=0.35,0.35	MS=500,500	NSL=278,101,230	
825 434 454	RE=0.15,0.15	MS=500,500	NSL=0,52,190	G=1,4,2,2
826 454 481	RE=0.15,0.35	MS=500,500	NSL=278,61,199	G=1,4,2,2
827 435 455	RE=0.35,0.35	MS=500,500	NSL=0,52,190	G=1,5,2,2

828 455 482		RE=0.35,0.35	MS=500,500	NSL=278,61,199	G=1,5,2,2
831 416 437		RE=0.35,0.35	MS=500,500	NSL=278,60,198	
834 417 438	M=3 LP= 3,0	RE=0.35,0.15	MS=500,500	NSL=278,61,199	
835 438 458		RE=0.15,0.15	MS=500,500	NSL=0,52,190	
836 458 466		RE=0.15,0.3	MS=500,500	NSL=278,137,231	
837 466 485		RE=0.3,0.35	MS=500,500	NSL=278,103,232	
838 485 492	M=1 LP= 3,0	RE=0.35,0.35	MS=500,500	NSL=278,138,263	
839 418 754	M=2 LP= 3,0	RE=0.35,0	MS=500,500	NSL=278,131,257	
840 754 439		RE=0,0.35	MS=500,500	NSL=278,132,258	
841 439 459		RE=0.35,0.35	MS=500,500	NSL=278,133,259	
842 459 755		RE=0.35,0	MS=500,500	NSL=278,134,260	
843 755 468		RE=0,0.35	MS=500,500	NSL=278,135,261	
844 467 493	M=3 LP= 3,0	RE=0.3,0.35	MS=500,500	NSL=278	
845 756 757		RE=0.3,0.3	MS=500,500	NSL=278,136,262	
846 754 756	M=3 LP=-2,0	RE=0,0.3	MS=500,500	NSL=278,1,139	G=1,1,1,1
848 701 702	M=2 LP=-2,0	RE=0.4,0.35	MS=500,500	NSL=278,128,254	G=2,1,1,1
851 704 492		RE=0.35,0.35	MS=500,500	NSL=278,128,254	
852 705 706	M=1 LP=-2,0	RE=0.4,0.35	MS=500,500	NSL=278,129,255	
853 706 707		RE=0.35,0.35	MS=500,500	NSL=278,129,255	G=2,1,1,1
856 709 710		RE=0.35,0.35	MS=500,500	NSL=278,130,256	
857 711 712		RE=0.4,0	MS=500,500	NSL=278,52,190	
858 712 713		RE=0,0.35	MS=500,500	NSL=278,52,190	G=1,2,2,2
859 713 714		RE=0.35,0	MS=500,500	NSL=278,52,190	
861 715 716		RE=0.35,0.35	MS=500,500	NSL=278,54,192	G=2,10,12,12
862 717 718	M=3 LP=-2,0	RE=0.4,0.35	MS=500,500	NSL=278,52,190	
863 718 719		RE=0.35,0.35	MS=500,500	NSL=278,52,190	G=2,1,1,1
866 721 722		RE=0.35,0.35	MS=500,500	NSL=278,54,192	G=2,10,12,12
867 723 724	M=1 LP=-2,0	RE=0.4,0	MS=500,500	NSL=278,52,190	G=1,10,12,12
868 724 725		RE=0,0.35	MS=500,500	NSL=278,52,190	G=1,2,2,2
869 725 726		RE=0.35,0	MS=500,500	NSL=278,52,190	G=1,10,12,12
872 729 730	M=3 LP=-2,0	RE=0.4,0.35	MS=500,500	NSL=278,52,190	G=1,10,12,12
873 730 731		RE=0.35,0.35	MS=500,500	NSL=278,52,190	G=2,1,1,1
878 736 737		RE=0,0.35	MS=500,500	NSL=278,52,190	G=1,2,2,2
883 742 743		RE=0.4,0.35	MS=500,500	NSL=278,52,190	G=2,1,1,1
887 747 748	M=1 LP=-2,0	RE=0.4,0.4	MS=500,500	NSL=278,51,189	G=3,1,1,1
891 751 752		RE=0.4,0.4	MS=500,500	NSL=278,53,191	
892 481 701	M=1 LP= 3,0	RE=0.35,0.4	MS=500,500	NSL=278,138,263	
893 482 702	M=2 LP= 3,0	RE=0.35,0.35	MS=500,500	NSL=278,121,248	G=2,1,1,1
896 701 705	M=1 LP= 3,0	RE=0.4,0.4	MS=500,500	NSL=278,122,249	
897 702 706	M=2 LP= 3,0	RE=0.35,0.35	MS=500,500	NSL=278,123,250	G=1,2,2,2
898 703 707	M=1 LP= 3,0	RE=0.35,0.35	MS=500,500	NSL=278,123,250	G=1,2,-211,2
901 493 710	M=2 LP= 3,0	RE=0.35,0.35	MS=500,500	NSL=278,122,249	
902 705 711	M=1 LP= 3,0	RE=0.4,0.4	MS=500,500	NSL=278,51,189	G=6,6,6,6
903 706 712	M=2 LP= 3,0	RE=0.35,0	MS=500,500	NSL=278,52,190	G=2,12,12,12
904 707 713	M=1 LP= 3,0	RE=0.35,0.35	MS=500,500	NSL=278,52,190	G=5,6,6,6
905 708 714	M=2 LP= 3,0	RE=0.35,0	MS=500,500	NSL=278,52,190	G=2,12,12,12
906 709 715	M=1 LP= 3,0	RE=0.35,0.35	MS=500,500	NSL=278,90,220	G=5,6,6,6
907 710 716	M=2 LP= 3,0	RE=0.35,0.35	MS=500,500	NSL=278,51,189	G=5,6,6,6
909 712 718		RE=0,0.35	MS=500,500	NSL=278,52,190	G=2,12,12,12
911 714 720		RE=0,0.35	MS=500,500	NSL=278,52,190	G=2,12,12,12
939 742 748		RE=0.35,0.4	MS=500,500	NSL=278,52,190	
940 743 749	M=1 LP= 3,0	RE=0.35,0.4	MS=500,500	NSL=278,52,190	
941 744 750	M=2 LP= 3,0	RE=0.35,0.4	MS=500,500	NSL=278,52,190	
942 745 751	M=1 LP= 3,0	RE=0.35,0.4	MS=500,500	NSL=278,90,220	
943 746 752	M=2 LP= 3,0	RE=0.35,0.4	MS=500,500	NSL=278,51,189	
944 475 487	M=1 LP= 3,0	RE=0.35,0.35	MS=500,500	NSL=278	
C *** Balok Bordes ***					
206 1000 1001	M=3 LP=-2,0	RE=0.3,0.3	NSL=279,264,267		
219 1008 1009		RE=0.3,0.3	NSL=279,264,267		
356 1002 1003		RE=0.3,0.3	NSL=277,264,267		
369 1010 1011		RE=0.3,0.3	NSL=277,264,267		
506 1004 1005		RE=0.35,0.35	NSL=280,265,268		
758 1006 1007		RE=0.35,0.35	NSL=281,266,269		
2018 1012 1013		RE=0.35,0.35	NSL=282,265,268		
2019 1014 1015		RE=0.35,0.35	NSL=283,266,269		
C *** Kolom lantai 4 ***					
1000 1 101	M=6 LP= 3,0	MS=100,200	G=1,18,18,18		
1001 2 102	M=7 LP= 3,0	MS=100,200	G=16,1,1,1		
1019 20 120	M=8 LP= 3,0	MS=100,200	G=2,1,1,1		
1022 23 123	M=6 LP= 3,0	MS=100,200	G=1,17,17,17		

1023	24	124	M=8	LP= 3,0	MS=100,200	
1024	25	125	M=7	LP= 3,0	MS=100,200	
1025	26	126			MS=100,200	G=3,2,2,2
1026	27	127	M=9	LP= 3,0	MS=100,200	G=2,2,2,2
1032	33	133	M=7	LP= 3,0	MS=100,200	G=3,2,2,2
1033	34	134	M=9	LP= 3,0	MS=100,200	G=2,2,2,2
1040	41	141	M=8	LP= 3,0	MS=100,200	G=2,1,1,1
1043	44	144	M=7	LP= 3,0	MS=100,200	G=2,2,2,2
1044	45	145	M=9	LP= 3,0	MS=100,200	G=1,2,2,2
1048	49	149	M=8	LP= 3,0	MS=100,200	G=2,1,1,1
1051	52	152	M=7	LP= 3,0	MS=100,200	
1052	53	153			MS=100,200	G=3,2,2,2
1053	54	154	M=9	LP= 3,0	MS=100,200	G=2,2,2,2
1059	60	160	M=10	LP= 3,0	MS=100,200	G=1,1,1,1
1061	62	162	M=7	LP= 3,0	MS=100,200	G=3,1,1,1
1065	66	166	M=8	LP= 3,0	MS=100,200	G=1,1,1,1
1067	68	168	M=7	LP= 3,0	MS=100,200	
1068	69	169			MS=100,200	G=1,1,1,1
1070	71	171	M=6	LP= 3,0	MS=100,200	
1071	72	172	M=7	LP= 3,0	MS=100,200	G=21,1,1,1
C **** Kolom lantai 3 ***						
1100	101	201	M=6	LP= 3,0	MS=200,300	G=1,18,18,18
1101	102	202	M=7	LP= 3,0	MS=200,300	G=16,1,1,1
1119	120	220	M=8	LP= 3,0	MS=200,300	G=2,1,1,1
1122	123	223	M=6	LP= 3,0	MS=200,300	G=1,17,17,17
1123	124	224	M=8	LP= 3,0	MS=200,300	
1124	125	225	M=7	LP= 3,0	MS=200,300	
1125	126	226			MS=200,300	G=3,2,2,2
1126	127	227	M=9	LP= 3,0	MS=200,300	G=2,2,2,2
1132	133	233	M=7	LP= 3,0	MS=200,300	G=3,2,2,2
1133	134	234	M=9	LP= 3,0	MS=200,300	G=2,2,2,2
1140	141	241	M=8	LP= 3,0	MS=200,300	G=2,1,1,1
1143	144	244	M=7	LP= 3,0	MS=200,300	G=2,2,2,2
1144	145	245	M=9	LP= 3,0	MS=200,300	G=1,2,2,2
1148	149	249	M=8	LP= 3,0	MS=200,300	G=2,1,1,1
1151	152	252	M=7	LP= 3,0	MS=200,300	
1152	153	253			MS=200,300	G=3,2,2,2
1153	154	254	M=9	LP= 3,0	MS=200,300	G=2,2,2,2
1159	160	260	M=10	LP= 3,0	MS=200,300	G=1,1,1,1
1161	162	262	M=7	LP= 3,0	MS=200,300	G=3,1,1,1
1165	166	266	M=8	LP= 3,0	MS=200,300	G=1,1,1,1
1167	168	268	M=7	LP= 3,0	MS=200,300	
1168	169	269			MS=200,300	G=1,1,1,1
1170	171	271	M=6	LP= 3,0	MS=200,300	
1171	172	272	M=7	LP= 3,0	MS=200,300	G=13,1,1,1
1185	186	1000				
1186	187	1001				
1187	188	288			MS=200,300	G=3,1,1,1
1191	192	1008				
1192	193	1009				
2000	1000	286				
2001	1001	287				
2010	1008	292				
2011	1009	293				
C **** Kolom lantai 2 ***						
1200	201	301	M=6	LP= 3,0	MS=300,400	G=1,18,18,18
1201	202	302	M=7	LP= 3,0	MS=300,400	G=16,1,1,1
1219	220	320	M=8	LP= 3,0	MS=300,400	G=2,1,1,1
1222	223	323	M=6	LP= 3,0	MS=300,400	G=1,17,17,17
1223	224	324	M=8	LP= 3,0	MS=300,400	
1224	225	325	M=7	LP= 3,0	MS=300,400	
1225	226	326			MS=300,400	G=3,2,2,2
1226	227	327	M=9	LP= 3,0	MS=300,400	G=2,2,2,2
1232	233	333	M=7	LP= 3,0	MS=300,400	G=3,2,2,2
1233	234	334	M=9	LP= 3,0	MS=300,400	G=2,2,2,2
1240	241	341	M=8	LP= 3,0	MS=300,400	G=2,1,1,1
1243	244	344	M=7	LP= 3,0	MS=300,400	G=2,2,2,2
1244	245	345	M=9	LP= 3,0	MS=300,400	G=1,2,2,2
1248	249	349	M=8	LP= 3,0	MS=300,400	G=2,1,1,1
1251	252	352	M=7	LP= 3,0	MS=300,400	

1252 253 353		MS=300,400	G=3,2,2,2
1253 254 354	M=9	LP= 3,0 MS=300,400	G=2,2,2,2
1259 260 360	M=10	LP= 3,0 MS=300,400	G=1,1,1,1
1261 262 362	M=7	LP= 3,0 MS=300,400	G=3,1,1,1
1265 266 366	M=8	LP= 3,0 MS=300,400	G=1,1,1,1
1267 268 368	M=7	LP= 3,0 MS=300,400	
1268 269 369		MS=300,400	G=1,1,1,1
1270 271 371	M=6	LP= 3,0 MS=300,400	
1271 272 372	M=7	LP= 3,0 MS=300,400	G=13,1,1,1
1285 286 1002			
1286 287 1003			
1287 288 388		MS=300,400	G=3,1,1,1
1291 292 1010			
1292 293 1011			
2002 1002 386			
2003 1003 387			
2012 1010 392			
2013 1011 393			
C **** Kolom lantai 1 ***			
1300 301 401	M=5	LP= 3,0 MS=400,500	G=1,18,18,18
1301 302 402	M=6	LP= 3,0 MS=400,500	G=16,1,1,1
1319 320 420	M=7	LP= 3,0 MS=400,500	G=2,1,1,1
1322 323 423	M=5	LP= 3,0 MS=400,500	G=1,17,17,17
1323 324 424	M=7	LP= 3,0 MS=400,500	
1324 325 425	M=6	LP= 3,0 MS=400,500	
1325 326 426		MS=400,500	G=3,2,2,2
1326 327 427	M=8	LP= 3,0 MS=400,500	G=2,2,2,2
1332 333 433	M=6	LP= 3,0 MS=400,500	G=3,2,2,2
1333 334 434	M=8	LP= 3,0 MS=400,500	G=2,2,2,2
1340 341 441	M=7	LP= 3,0 MS=400,500	G=2,1,1,1
1343 344 444	M=6	LP= 3,0 MS=400,500	G=2,2,2,2
1344 345 445	M=8	LP= 3,0 MS=400,500	G=1,2,2,2
1348 349 449	M=7	LP= 3,0 MS=400,500	G=2,1,1,1
1351 352 452	M=6	LP= 3,0 MS=400,500	
1352 353 453		MS=400,500	G=3,2,2,2
1353 354 454	M=8	LP= 3,0 MS=400,500	G=2,2,2,2
1359 360 460	M=9	LP= 3,0 MS=400,500	G=1,1,1,1
1361 362 462	M=6	LP= 3,0 MS=400,500	G=3,1,1,1
1365 366 466	M=7	LP= 3,0 MS=400,500	G=1,1,1,1
1367 368 468	M=6	LP= 3,0 MS=400,500	
1368 369 469		MS=400,500	G=1,1,1,1
1370 371 471	M=5	LP= 3,0 MS=400,500	
1371 372 472	M=6	LP= 3,0 MS=400,500	G=13,1,1,1
1385 386 1004			
1386 387 1005			
1387 388 488		MS=400,500	G=3,1,1,1
1391 392 1012			
1392 393 1013			
2004 1004 486			
2005 1005 487			
2014 1012 492			
2015 1013 493			
1500 601 701	M=5	LP= 3,0 MS=400,500	
1501 602 702	M=6	LP= 3,0 MS=400,500	G=2,1,1,1
1505 605 705	M=5	LP= 3,0 MS=400,500	G=7,6,6,6
1506 606 706	M=6	LP= 3,0 MS=400,500	G=3,12,12,12
1507 607 707		MS=400,500	
1508 608 708		MS=400,500	G=3,12,12,12
1509 609 709		MS=400,500	G=6,6,6,6
1510 610 710		MS=400,500	G=6,6,6,6
1548 648 748	M=5	LP= 3,0 MS=400,500	G=4,1,1,1
2020 613 713	M=6	LP= 3,0	
2021 625 725			
2022 637 737			
C **** Kolom lantai dasar ***			
1400 401 501	M=5	LP= 3,0 MS=500,0	G=1,18,18,18
1401 402 502	M=6	LP= 3,0 MS=500,0	G=16,1,1,1
1419 420 520	M=7	LP= 3,0 MS=500,0	G=1,2,2,2
1422 423 523	M=5	LP= 3,0 MS=500,0	G=1,17,17,17
1423 753 853	M=6	LP= 3,0 MS=500,0	

1424 425 525			MS=500,0	
1425 426 526			MS=500,0	G=3,2,2,2
1426 427 527	M=8	LP= 3,0	MS=500,0	G=2,2,2,2
1432 433 533	M=6	LP= 3,0	MS=500,0	G=3,2,2,2
1433 434 534	M=8	LP= 3,0	MS=500,0	G=2,2,2,2
1440 441 541	M=7	LP= 3,0	MS=500,0	G=1,2,2,2
1443 444 544	M=6	LP= 3,0	MS=500,0	G=2,2,2,2
1444 445 545	M=8	LP= 3,0	MS=500,0	G=1,2,2,2
1448 449 549	M=7	LP= 3,0	MS=500,0	G=2,1,1,1
1451 452 552	M=6	LP= 3,0	MS=500,0	
1452 453 553			MS=500,0	G=3,2,2,2
1453 454 554	M=8	LP= 3,0	MS=500,0	G=2,2,2,2
1459 460 560	M=9	LP= 3,0	MS=500,0	G=1,1,1,1
1461 462 562	M=6	LP= 3,0	MS=500,0	G=3,1,1,1
1465 466 566	M=7	LP= 3,0	MS=500,0	G=1,1,1,1
1467 468 568	M=6	LP= 3,0	MS=500,0	
1468 469 569			MS=500,0	G=1,1,1,1
1470 471 571	M=5	LP= 3,0	MS=500,0	
1471 472 572	M=6	LP= 3,0	MS=500,0	G=13,1,1,1
1485 486 1006				
1486 487 1007				
1487 488 588			MS=500,0	G=3,1,1,1
1491 492 1014				
1492 493 1015				
2006 1006 586				
2007 1007 587				
2016 1014 592				
2017 1015 593				
1600 701 801	M=5	LP= 3,0	MS=500,0	
1601 702 802	M=6	LP= 3,0	MS=500,0	G=2,1,1,1
1605 705 805	M=5	LP= 3,0	MS=500,0	G=7,6,6,6
1606 706 806	M=6	LP= 3,0	MS=500,0	G=3,12,12,12
1607 707 807			MS=500,0	G=6,6,6,6
1608 708 808			MS=500,0	G=3,12,12,12
1609 709 809			MS=500,0	G=6,6,6,6
1610 710 810			MS=500,0	G=6,6,6,6
1648 748 848	M=5	LP= 3,0	MS=500,0	G=4,1,1,1
1653 756 856	M=7	LP= 3,0	MS=500,0	G=1,1,1,1
2025 421 521			MS=500,0	G=1,1,3,3
2027 442 542			MS=500,0	

SPEC

A=0 S=9.81 D=0.05

0.0	0.050	0.050
0.5	0.050	0.050
2.0	0.025	0.025
3.0	0.025	0.025

COMBO

1	C=1,1	
2	C=0,0,1	
3	D=1	
4	C=1.2,1.2,1.6	
5	C=1.05,1.05,0.84	D=1.05
6	C=1.05,1.05,0.84	D=-1.05
7	C=0.9,0.9	D=0.9
8	C=0.9,0.9	D=-0.9

Perencanaan Gedung Bertingkat Dengan Denah Berbentuk L

SPECTRUM INPUT DATA

AMPLITUDE MULTIPLIER ---- "S"- 9.810
 DAMPING RATIO ----- "D"- 0.050
 ANGLE OF S1 WITH X-AXIS -- "A"- 0.000

MODE NUMBER	FREQUENCY			SPECTRAL		
	RAD./SEC	CYCLES/SEC	PERIOD-SEC (D)	ACCELERATION	VELOCITY	DISPLACEMENT
1	4.10	0.65	1.532588(1) ✓	0.322	0.078	0.019
			(2)	0.322	0.078	0.019
			(Z)	0.000	0.000	0.000
2	4.52	0.72	1.389039(1) ✓	0.345	0.076	0.017
			(2)	0.345	0.076	0.017
			(Z)	0.000	0.000	0.000
3	6.27	1.00	1.001900(1)	0.408	0.065	0.010
			(2)	0.408	0.065	0.010
			(Z)	0.000	0.000	0.000
4	11.54	1.84	0.544344(1)	0.483	0.042	0.004
			(2)	0.483	0.042	0.004
			(Z)	0.000	0.000	0.000
5	11.75	1.87	0.534636(1)	0.485	0.041	0.004
			(2)	0.485	0.041	0.004
			(Z)	0.000	0.000	0.000

MODAL AMPLITUDE FACTORS

AT 0.00 AND -90.00 DEGREES

MODE NUMBER	PERIOD	1-DIRECTION	2-DIRECTION	Z-DIRECTION
1	1.533	-4.090736	1.926275	0.000000
2	1.389	-1.826966	-3.866646	0.000000
3	1.002	-0.929110	0.332106	0.000000
4	0.544	-0.102922	-0.453717	0.000000
5	0.535	0.411334	-0.140893	0.000000

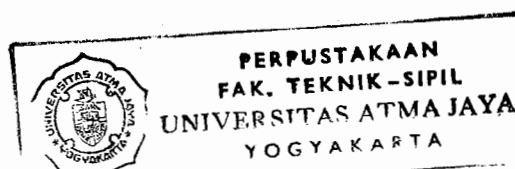
MODAL CORRELATION FACTORS

	1	2	3	4	5
1	1.00	0.51	0.05	0.01	0.01
2	0.51	1.00	0.08	0.01	0.01
3	0.05	0.08	1.00	0.02	0.02
4	0.01	0.01	0.02	1.00	0.97
5	0.01	0.01	0.02	0.97	1.00

BASE REACTION FORCES

AT 0.00 AND -90.00 DEGREES

MODE NUMBER	1-DIR FORCE	2-DIR FORCE	Z-DIR FORCE	1-DIR MOMENT	2-DIR MOMENT	Z-DIR MOMENT
1	-0.16244E+05	0.76492E+04	0.10682E+01	-0.95159E+05	-0.20001E+06	0.29896E+06
2	0.94774E+04	0.20058E+05	0.21705E+01	-0.24595E+06	0.11532E+06	0.49841E+06
3	-0.34717E+04	0.12409E+04	0.16459E+01	-0.14722E+05	-0.38645E+05	0.23991E+06
4	0.17589E+04	0.77539E+04	0.34440E+01	-0.17980E+05	-0.17674E+04	0.28935E+06
5	-0.70367E+04	0.24103E+04	0.74998E+00	-0.40503E+04	-0.95908E+04	0.20072E+06
CQC	0.20622E+05	0.23150E+05	0.46777E+01	0.26507E+06	0.23627E+06	0.73662E+06



No. EL	Load Comb.	Dist. Endl.	1 - 2 Plane		Axial Force	! - 3 Plane		Axial Torq.
			Shear	Moment		Shear	Moment	
28								
	1	0.000			0.000			-0.319
		0.300	54.635	-76.204		0.000	0.000	
		2.088	39.231	11.090		0.000	0.000	
		3.875	26.038	65.977		0.000	0.000	
		4.000			0.000			-0.319
	2	0.000			0.000			0.215
		0.300	14.824	-18.540		0.000	0.000	
		2.088	8.712	3.844		0.000	0.000	
		3.875	3.476	13.369		0.000	0.000	
		4.000			0.000			0.215
	3	0.000			0.000			5.085
		0.300	22.549	72.005		0.000	0.000	
		2.088	22.549	33.057		0.000	0.000	
		3.875	22.549	15.806		0.000	0.000	
		4.000			0.000			5.085
	4	0.000			0.000			-0.038
		0.300	89.281	-121.108		0.000	0.000	
		2.088	61.016	19.459		0.000	0.000	
		3.875	36.808	100.562		0.000	0.000	
		4.000			0.000			-0.038
	5	0.000			0.000			5.185
		0.300	93.496	-19.982		0.000	0.000	
		2.088	72.187	49.583		0.000	0.000	
		3.875	53.936	97.101		0.000	0.000	
		4.000			0.000			5.185
	6	0.000			0.000			-5.494
		0.300	46.144	-171.193		0.000	0.000	
		2.088	24.834	-19.835		0.000	0.000	
		3.875	6.584	63.909		0.000	0.000	
		4.000			0.000			-5.494
	7	0.000			0.000			4.289
		0.300	69.466	-3.778		0.000	0.000	
		2.088	55.602	39.732		0.000	0.000	
		3.875	43.728	73.604		0.000	0.000	
		4.000			0.000			4.289
	8	0.000			0.000			-4.864
		0.300	28.878	-133.388		0.000	0.000	
		2.088	15.014	-19.770		0.000	0.000	
		3.875	3.140	45.154		0.000	0.000	
		4.000			0.000			-4.864
178								
	1	0.000			0.000			3.415
		0.300	104.400	-116.908		0.000	0.000	
		2.088	33.157	26.873		0.000	0.000	
		3.875	-12.053	44.198		0.000	0.000	
		4.000			0.000			3.415
	2	0.000			0.000			0.541
		0.300	19.795	-24.104		0.000	0.000	
		2.088	9.607	4.423		0.000	0.000	
		3.875	0.881	11.517		0.000	0.000	
		4.000			0.000			0.541
	3	0.000			0.000			6.732
		0.300	41.738	128.973		0.000	0.000	
		2.088	41.738	55.317		0.000	0.000	
		3.875	41.738	24.866		0.000	0.000	
		4.000			0.000			6.732

No. EL	Load Comb.	Dist. Endl.	1 - 2 Plane		Axial Force	! - 3 Plane		Axial Torq.
			Shear	Moment		Shear	Moment	
	4	0.000			0.000			4.964
		0.300	156.952	-178.856		0.000	0.000	
		2.088	55.159	39.324		0.000	0.000	
		3.875	-13.053	71.465		0.000	0.000	
		4.000			0.000			4.964
	5	0.000			0.000			11.110
		0.300	170.073	-7.579		0.000	0.000	
		2.088	86.709	90.015		0.000	0.000	
		3.875	31.909	82.191		0.000	0.000	
		4.000			0.000			11.110
	6	0.000			0.000			-3.029
		0.300	82.423	-278.422		0.000	0.000	
		2.088	-0.940	-26.152		0.000	0.000	
		3.875	-55.740	29.973		0.000	0.000	
		4.000			0.000			-3.029
	7	0.000			0.000			9.133
		0.300	131.524	10.858		0.000	0.000	
		2.088	67.405	73.971		0.000	0.000	
		3.875	26.716	62.158		0.000	0.000	
		4.000			0.000			9.133
	8	0.000			0.000			-2.985
		0.300	56.396	-221.293		0.000	0.000	
		2.088	-7.723	-25.600		0.000	0.000	
		3.875	-48.412	17.399		0.000	0.000	
		4.000			0.000			-2.985
328	1	0.000			0.000			3.373
		0.300	100.018	-108.398		0.000	0.000	
		2.088	28.775	27.550		0.000	0.000	
		3.875	-16.435	37.043		0.000	0.000	
		4.000			0.000			3.373
	2	0.000			0.000			0.568
		0.300	18.442	-21.441		0.000	0.000	
		2.088	8.255	4.669		0.000	0.000	
		3.875	-0.471	9.345		0.000	0.000	
		4.000			0.000			0.568
	3	0.000			0.000			8.386
		0.300	61.059	188.517		0.000	0.000	
		2.088	61.059	80.077		0.000	0.000	
		3.875	61.059	33.317		0.000	0.000	
		4.000			0.000			8.386
	4	0.000			0.000			4.956
		0.300	149.530	-164.382		0.000	0.000	
		2.088	47.737	40.530		0.000	0.000	
		3.875	-20.476	59.404		0.000	0.000	
		4.000			0.000			4.956
	5	0.000			0.000			12.824
		0.300	184.623	66.115		0.000	0.000	
		2.088	101.259	116.930		0.000	0.000	
		3.875	46.459	81.728		0.000	0.000	
		4.000			0.000			12.824
	6	0.000			0.000			-4.787
		0.300	56.399	-329.771		0.000	0.000	
		2.088	-26.964	-51.231		0.000	0.000	
		3.875	-81.764	11.762		0.000	0.000	
		4.000			0.000			-4.787
	7	0.000			0.000			10.583
		0.300	144.969	72.108		0.000	0.000	

No. EL	Load Comb.	Dist. Endi.	1 - 2 Plane		Axial Force	! - 3 Plane		Axial Torq.
			Shear	Moment		Shear	Moment	
		2.088	80.850	96.865		0.000	0.000	
		3.875	40.161	63.324		0.000	0.000	
		4.000			0.000			10.583
	8	0.000			0.000			-4.512
		0.300	35.064	-267.223		0.000	0.000	
		2.088	-29.056	-47.274		0.000	0.000	
		3.875	-69.744	3.353		0.000	0.000	
		4.000			0.000			-4.512
478								
	1	0.000			0.000			3.647
		0.350	91.935	-92.777		0.000	0.000	
		2.100	21.141	25.868		0.000	0.000	
		3.850	-23.305	22.729		0.000	0.000	
		4.000			0.000			3.647
	2	0.000			0.000			0.635
		0.350	16.725	-18.074		0.000	0.000	
		2.100	6.501	4.349		0.000	0.000	
		3.850	-2.094	6.066		0.000	0.000	
		4.000			0.000			0.635
	3	0.000			0.000			7.027
		0.350	66.693	194.550		0.000	0.000	
		2.100	66.693	78.323		0.000	0.000	
		3.850	66.693	40.780		0.000	0.000	
		4.000			0.000			7.027
	4	0.000			0.000			5.394
		0.350	137.083	-140.251		0.000	0.000	
		2.100	35.772	38.000		0.000	0.000	
		3.850	-31.315	36.981		0.000	0.000	
		4.000			0.000			5.394
	5	0.000			0.000			11.742
		0.350	180.609	91.679		0.000	0.000	
		2.100	97.687	113.053		0.000	0.000	
		3.850	43.799	71.781		0.000	0.000	
		4.000			0.000			11.742
	6	0.000			0.000			-3.014
		0.350	40.554	-316.875		0.000	0.000	
		2.100	-42.368	-51.425		0.000	0.000	
		3.850	-96.256	-13.858		0.000	0.000	
		4.000			0.000			-3.014
	7	0.000			0.000			9.607
		0.350	142.765	91.595		0.000	0.000	
		2.100	79.051	93.771		0.000	0.000	
		3.850	39.049	57.159		0.000	0.000	
		4.000			0.000			9.607
	8	0.000			0.000			-3.041
		0.350	22.718	-258.594		0.000	0.000	
		2.100	-40.996	-47.210		0.000	0.000	
		3.850	-80.998	-16.246		0.000	0.000	
		4.000			0.000			-3.041
729								
	1	0.000			0.000			-0.954
		0.350	44.349	-47.237		0.000	0.000	
		2.100	17.967	9.264		0.000	0.000	
		3.850	-6.882	16.951		0.000	0.000	
		4.000			0.000			-0.954
	2	0.000			0.000			-0.449
		0.350	8.809	-9.932		0.000	0.000	
		2.100	3.697	2.061		0.000	0.000	
		3.850	-0.600	3.701		0.000	0.000	

No. EL	Load Comb.	Dist. Endi.	1 - 2 Plane		Axial Force	! - 3 Plane		Axial Torq.
			Shear	Moment		Shear	Moment	
		4.000			0.000			-0.449
3		0.000			0.000			3.589
		0.350	64.512	187.638		0.000	0.000	
		2.100	64.512	74.921		0.000	0.000	
		3.850	64.512	38.849		0.000	0.000	
		4.000			0.000			3.589
4		0.000			0.000			-1.863
		0.350	67.314	-72.575		0.000	0.000	
		2.100	27.477	14.414		0.000	0.000	
		3.850	-9.219	26.264		0.000	0.000	
		4.000			0.000			-1.863
5		0.000			0.000			2.390
		0.350	121.703	139.078		0.000	0.000	
		2.100	89.709	90.126		0.000	0.000	
		3.850	60.007	61.699		0.000	0.000	
		4.000			0.000			2.390
6		0.000			0.000			-5.147
		0.350	-13.771	-254.961		0.000	0.000	
		2.100	-45.765	-67.209		0.000	0.000	
		3.850	-75.468	-19.883		0.000	0.000	
		4.000			0.000			-5.147
7		0.000			0.000		2.372	
		0.350	97.974	126.361		0.000	0.000	
		2.100	74.231	75.767		0.000	0.000	
		3.850	51.866	50.220		0.000	0.000	
		4.000			0.000		2.372	
8		0.000			0.000			-4.088
		0.350	-18.147	-211.387		0.000	0.000	
		2.100	-41.890	-59.092		0.000	0.000	
		3.850	-64.255	-19.707		0.000	0.000	
		4.000			0.000			-4.088

No. EL	Load Comb.	Dist. Endi.	1 - 2 Plane		Axial Force	! - 3 Plane		Axial Torq.
			Shear	Moment		Shear	Moment	
112								
1		0.000			0.000			1.449
		0.300	24.158	-22.734		0.000	0.000	
		2.500	5.137	9.491		0.000	0.000	
		4.700	-13.884	-0.130		0.000	0.000	
		5.000			0.000			1.449
2		0.000			0.000			0.400
		0.300	8.633	-7.024		0.000	0.000	
		2.500	1.086	3.667		0.000	0.000	
		4.700	-6.461	-2.246		0.000	0.000	
		5.000			0.000			0.400
3		0.000			0.000			0.614
		0.300	83.998	192.648		0.000	0.000	
		2.500	83.998	7.929		0.000	0.000	
		4.700	83.998	176.949		0.000	0.000	
		5.000			0.000			0.614
4		0.000			0.000			2.379
		0.300	42.803	-38.520		0.000	0.000	
		2.500	7.902	17.256		0.000	0.000	
		4.700	-26.998	-3.750		0.000	0.000	
		5.000			0.000			2.379
5		0.000			0.000			2.502
		0.300	120.816	172.509		0.000	0.000	
		2.500	94.504	21.371		0.000	0.000	
		4.700	68.193	183.774		0.000	0.000	
		5.000			0.000			2.502
6		0.000			0.000			1.213
		0.300	-55.580	-232.052		0.000	0.000	
		2.500	-81.891	4.720		0.000	0.000	
		4.700	-108.203	-187.820		0.000	0.000	
		5.000			0.000			1.213
7		0.000			0.000			1.857
		0.300	97.340	152.922		0.000	0.000	
		2.500	80.222	15.678		0.000	0.000	
		4.700	63.103	159.137		0.000	0.000	
		5.000			0.000			1.857
8		0.000			0.000			0.752
		0.300	-53.856	-193.844		0.000	0.000	
		2.500	-70.975	1.405		0.000	0.000	
		4.700	-88.093	-159.372		0.000	0.000	
		5.000			0.000			0.752
113								
1		0.000			0.000			-12.151
		0.300	-9.889	3.094		0.000	0.000	
		0.500	-10.614	1.044		0.000	0.000	
		0.700	-11.338	-1.152		0.000	0.000	
		1.000			0.000			-12.151
2		0.000			0.000			-3.312
		0.300	-1.275	-0.639		0.000	0.000	
		0.500	-1.562	-0.922		0.000	0.000	
		0.700	-1.850	-1.264		0.000	0.000	
		1.000			0.000			-3.312
3		0.000			0.000			1.836
		0.300	112.070	17.703		0.000	0.000	
		0.500	112.070	21.778		0.000	0.000	
		0.700	112.070	40.496		0.000	0.000	
		1.000			0.000			1.836

No. EL	Load Comb.	Dist. Endi.	1 - 2 Plane		Axial Force	! - 3 Plane		Axial Torq.
			Shear	Moment		Shear	Moment	
	4	0.000			0.000			-19.880
		0.300	-13.907	2.691		0.000	0.000	
		0.500	-15.236	-0.224		0.000	0.000	
		0.700	-16.566	-3.404		0.000	0.000	
		1.000			0.000			-19.880
	5	0.000			0.000			-13.613
		0.300	106.219	21.300		0.000	0.000	
		0.500	105.216	23.188		0.000	0.000	
		0.700	104.214	40.250		0.000	0.000	
		1.000			0.000			-13.613
	6	0.000			0.000			-17.468
		0.300	-129.128	-15.876		0.000	0.000	
		0.500	-130.130	-22.546		0.000	0.000	
		0.700	-131.132	-44.791		0.000	0.000	
		1.000			0.000			-17.468
	7	0.000			0.000			-9.284
		0.300	91.962	18.717		0.000	0.000	
		0.500	91.310	20.539		0.000	0.000	
		0.700	90.658	-35.410		0.000	0.000	
		1.000			0.000			-9.284
	8	0.000			0.000			-12.588
		0.300	-109.763	-13.148		0.000	0.000	
		0.500	-110.415	-18.661		0.000	0.000	
		0.700	-111.067	-37.483		0.000	0.000	
		1.000			0.000			-12.588
262	1	0.000			0.000			1.168
		0.300	46.079	-39.095		0.000	0.000	
		2.500	5.563	17.710		0.000	0.000	
		4.700	-34.953	-14.619		0.000	0.000	
		5.000			0.000			1.168
	2	0.000			0.000			0.228
		0.300	13.744	-10.930		0.000	0.000	
		2.500	1.165	5.470		0.000	0.000	
		4.700	-11.415	-5.805		0.000	0.000	
		5.000			0.000			0.228
	3	0.000			0.000			0.714
		0.300	110.362	248.490		0.000	0.000	
		2.500	110.362	5.795		0.000	0.000	
		4.700	110.362	237.109		0.000	0.000	
		5.000			0.000			0.714
	4	0.000			0.000			1.766
		0.300	77.286	-64.403		0.000	0.000	
		2.500	8.539	30.005		0.000	0.000	
		4.700	-60.207	-26.830		0.000	0.000	
		5.000			0.000			1.766
	5	0.000			0.000			2.167
		0.300	175.809	210.683		0.000	0.000	
		2.500	122.700	29.276		0.000	0.000	
		4.700	69.591	228.739		0.000	0.000	
		5.000			0.000			2.167
	6	0.000			0.000			0.669
		0.300	-55.952	-311.146		0.000	0.000	
		2.500	-109.061	17.106		0.000	0.000	
		4.700	-162.170	-269.191		0.000	0.000	
		5.000			0.000			0.669
	7	0.000			0.000			1.694
		0.300	140.797	188.455		0.000	0.000	

No. EL	Load Comb.	Dist. Endi.	1 - 2 Plane		Axial Force	! - 3 Plane		Axial Torq.
			Shear	Moment		Shear	Moment	
		2.500	104.333	21.155		0.000	0.000	
		4.700	67.868	200.242		0.000	0.000	
		5.000			0.000			1.694
	8	0.000			0.000			0.409
		0.300	-57.855	-258.827		0.000	0.000	
		2.500	-94.320	10.724		0.000	0.000	
		4.700	-130.784	-226.555		0.000	0.000	
		5.000			0.000			0.409
263								
	1	0.000			0.000			-9.600
		0.300	-5.824	-3.143		0.000	0.000	
		0.500	-8.258	-4.551		0.000	0.000	
		0.700	-10.692	-6.446		0.000	0.000	
		1.000			0.000			-9.600
	2	0.000			0.000			-1.828
		0.300	-2.331	-1.598		0.000	0.000	
		0.500	-2.810	-2.112		0.000	0.000	
		0.700	-3.289	-2.722		0.000	0.000	
		1.000			0.000			-1.828
	3	0.000			0.000			1.265
		0.300	293.936	89.945		0.000	0.000	
		0.500	293.936	32.015		0.000	0.000	
		0.700	293.936	29.523		0.000	0.000	
		1.000			0.000			1.265
	4	0.000			0.000			-14.444
		0.300	-10.718	-6.328		0.000	0.000	
		0.500	-14.406	-8.841		0.000	0.000	
		0.700	-18.094	-12.091		0.000	0.000	
		1.000			0.000			-14.444
	5	0.000			0.000			-10.286
		0.300	300.560	89.800		0.000	0.000	
		0.500	297.602	27.062		0.000	0.000	
		0.700	294.643	21.944		0.000	0.000	
		1.000			0.000			-10.286
	6	0.000			0.000			-12.944
		0.300	-316.706	-99.085		0.000	0.000	
		0.500	-319.665	-40.168		0.000	0.000	
		0.700	-322.623	-40.055		0.000	0.000	
		1.000			0.000			-12.944
	7	0.000			0.000			-7.501
		0.300	259.301	78.122		0.000	0.000	
		0.500	257.110	24.717		0.000	0.000	
		0.700	254.920	20.769		0.000	0.000	
		1.000			0.000			-7.501
	8	0.000			0.000			-9.778
		0.300	-269.784	-83.780		0.000	0.000	
		0.500	-271.975	-32.909		0.000	0.000	
		0.700	-274.166	-32.373		0.000	0.000	
		1.000			0.000			-9.778
412								
	1	0.000			0.000			1.171
		0.300	45.266	-37.381		0.000	0.000	
		2.500	4.750	17.637		0.000	0.000	
		4.700	-35.766	-16.480		0.000	0.000	
		5.000			0.000			1.171
	2	0.000			0.000			0.241
		0.300	13.560	-10.549		0.000	0.000	
		2.500	0.980	5.445		0.000	0.000	
		4.700	-11.599	-6.235		0.000	0.000	

No. EL	Load Comb.	Dist. Endi.	1 - 2 Plane		Axial Force	! - 3 Plane		Axial Torq.
			Shear	Moment		Shear	Moment	
		5.000			0.000			0.241
	3	0.000			0.000			0.933
		0.300	130.614	292.798		0.000	0.000	
		2.500	130.614	5.593		0.000	0.000	
		4.700	130.614	281.907		0.000	0.000	
		5.000			0.000			0.933
	4	0.000			0.000			1.791
		0.300	76.016	-61.736		0.000	0.000	
		2.500	7.269	29.877		0.000	0.000	
		4.700	-61.477	-29.752		0.000	0.000	
		5.000			0.000			1.791
	5	0.000			0.000			2.412
		0.300	196.064	259.327		0.000	0.000	
		2.500	142.956	28.966		0.000	0.000	
		4.700	89.847	273.461		0.000	0.000	
		5.000			0.000			2.412
	6	0.000			0.000			0.453
		0.300	-78.224	-355.550		0.000	0.000	
		2.500	-131.333	17.220		0.000	0.000	
		4.700	-184.442	-318.544		0.000	0.000	
		5.000			0.000			0.453
	7	0.000			0.000			1.894
		0.300	158.292	229.876		0.000	0.000	
		2.500	121.827	20.907		0.000	0.000	
		4.700	85.363	238.884		0.000	0.000	
		5.000			0.000			1.894
	8	0.000			0.000			0.214
		0.300	-76.813	-297.162		0.000	0.000	
		2.500	-113.277	10.840		0.000	0.000	
		4.700	-149.741	-268.549		0.000	0.000	
		5.000			0.000			0.214
413								
	1	0.000			0.000			-9.736
		0.300	-6.502	-3.480		0.000	0.000	
		0.500	-8.937	-5.024		0.000	0.000	
		0.700	-11.371	-7.055		0.000	0.000	
		1.000			0.000			-9.736
	2	0.000			0.000			-1.967
		0.300	-1.547	-1.905		0.000	0.000	
		0.500	-2.026	-2.263		0.000	0.000	
		0.700	-2.505	-2.716		0.000	0.000	
		1.000			0.000			-1.967
	3	0.000			0.000			1.566
		0.300	528.885	148.492		0.000	0.000	
		0.500	528.885	42.902		0.000	0.000	
		0.700	528.885	63.315		0.000	0.000	
		1.000			0.000		1.566	
	4	0.000			0.000			-14.831
		0.300	-10.277	-7.225		0.000	0.000	
		0.500	-13.965	-9.649		0.000	0.000	
		0.700	-17.653	-12.811		0.000	0.000	
		1.000			0.000			-14.831
	5	0.000			0.000			-10.231
		0.300	547.203	150.662		0.000	0.000	
		0.500	544.245	37.871		0.000	0.000	
		0.700	541.286	56.792		0.000	0.000	
		1.000			0.000			-10.231

No. El.	Load Comb.	Dist. Endi.	1 - 2 Plane		Axial Force	! - 3 Plane		Axial Torq.
			Shear	Moment		Shear	Moment	
	6	0.000			0.000			-13.520
		0.300	-563.456	-161.171		0.000	0.000	
		0.500	-566.415	-52.223		0.000	0.000	
		0.700	-569.373	-76.169		0.000	0.000	
		1.000			0.000			-13.520
	7	0.000			0.000			-7.353
		0.300	470.145	130.511		0.000	0.000	
		0.500	467.954	34.090		0.000	0.000	
		0.700	465.763	50.635		0.000	0.000	
		1.000			0.000			-7.353
	8	0.000			0.000			-10.172
		0.300	-481.849	-136.775		0.000	0.000	
		0.500	-484.040	-43.133		0.000	0.000	
		0.700	-486.230	-63.333		0.000	0.000	
		1.000			0.000			-10.172
562 -----								
	1	0.000			0.000			0.897
		0.350	43.496	-34.457		0.000	0.000	
		2.500	3.900	16.494		0.000	0.000	
		4.650	-35.695	-17.685		0.000	0.000	
		5.000			0.000			0.897
	2	0.000			0.000			0.177
		0.350	13.100	-9.860		0.000	0.000	
		2.500	0.806	5.089		0.000	0.000	
		4.650	-11.488	-6.394		0.000	0.000	
		5.000			0.000			0.177
	3	0.000			0.000			0.640
		0.350	121.225	265.386		0.000	0.000	
		2.500	121.225	4.964		0.000	0.000	
		4.650	121.225	255.890		0.000	0.000	
		5.000			0.000			0.640
	4	0.000			0.000			1.359
		0.350	73.154	-57.124		0.000	0.000	
		2.500	5.970	27.935		0.000	0.000	
		4.650	-61.214	-31.452		0.000	0.000	
		5.000			0.000			1.359
	5	0.000			0.000			1.762
		0.350	183.961	234.194		0.000	0.000	
		2.500	132.059	26.806		0.000	0.000	
		4.650	80.157	244.745		0.000	0.000	
		5.000			0.000			1.762
	6	0.000			0.000			0.418
		0.350	-70.612	-323.118		0.000	0.000	
		2.500	-122.514	16.381		0.000	0.000	
		4.650	-174.416	-292.625		0.000	0.000	
		5.000			0.000			0.418
	7	0.000			0.000			1.383
		0.350	148.249	207.837		0.000	0.000	
		2.500	112.613	19.313		0.000	0.000	
		4.650	76.977	214.385		0.000	0.000	
		5.000			0.000			1.383
	8	0.000			0.000			0.231
		0.350	-69.957	-269.859		0.000	0.000	
		2.500	-105.592	10.376		0.000	0.000	
		4.650	-141.228	-246.218		0.000	0.000	
		5.000			0.000			0.231
563 -----								
	1	0.000			0.000			-7.475
		0.350	-7.042	-4.937		0.000	0.000	

No. EL	Load Comb.	Dist. Endi.	1 - 2 Plane		Axial Force	! - 3 Plane		Axial Torq.		
			Shear	Moment		Shear	Moment			
		0.500	-8.867	-6.130	0.000	0.000	0.000	-7.475		
		0.650	-10.693	-7.597		0.000	0.000			
		1.000								
		2	0.000				0.000			-1.410
		0.350	-0.985	-2.403		0.000	0.000			
		0.500	-1.344	-2.578	0.000	0.000	0.000	-1.410		
		0.650	-1.703	-2.807		0.000	0.000			
		1.000								
		3	0.000				0.000			1.128
		0.350	517.200	124.784		0.000	0.000			
		0.500	517.200	47.421	0.000	0.000	0.000	1.128		
		0.650	517.200	31.043		0.000	0.000			
		1.000								
		4	0.000				0.000			-11.227
		0.350	-10.026	-9.770		0.000	0.000			
		0.500	-12.791	-11.481	0.000	0.000	0.000	-11.227		
		0.650	-15.557	-13.607		0.000	0.000			
		1.000								
		5	0.000				0.000			-7.850
		0.350	534.839	123.821		0.000	0.000			
		0.500	532.620	41.190	0.000	0.000	0.000	-7.850		
		0.650	530.401	22.260		0.000	0.000			
		1.000								
		6	0.000				0.000			-10.217
		0.350	-551.281	-138.226		0.000	0.000			
		0.500	-553.500	-58.394	0.000	0.000	0.000	-10.217		
		0.650	-555.718	-42.930		0.000	0.000			
		1.000								
		7	0.000				0.000			-5.713
		0.350	459.142	107.863		0.000	0.000			
		0.500	457.499	37.162	0.000	0.000	0.000	-5.713		
		0.650	455.856	21.101		0.000	0.000			
		1.000								
		8	0.000				0.000			-7.742
		0.350	-471.817	-116.749		0.000	0.000			
		0.500	-473.460	-48.196	0.000	0.000	0.000	-7.742		
		0.650	-475.104	-34.776		0.000	0.000			
		1.000								
		818								
		1	0.000				0.000			0.418
		0.350	45.827	-33.832	0.000	0.000	0.000	0.418		
		2.500	2.111	17.701		0.000	0.000			
		4.650	-41.605	-24.755		0.000	0.000			
		5.000								
		2	0.000				0.000			0.089
		0.350	12.717	-9.157	0.000	0.000	0.000	0.089		
		2.500	0.423	4.968		0.000	0.000			
		4.650	-11.871	-7.338		0.000	0.000			
		5.000								
		3	0.000				0.000			0.556
		0.350	90.145	196.346	0.000	0.000	0.000	0.556		
		2.500	90.145	2.775		0.000	0.000			
		4.650	90.145	191.282		0.000	0.000			
		5.000								
		4	0.000				0.000			0.644
		0.350	75.339	-55.249	0.000	0.000	0.000	0.644		
		2.500	3.210	29.191		0.000	0.000			
		4.650	-68.919	-41.447		0.000	0.000			

No. EL	Load Comb.	Dist. Endi. 5.000	1 - 2 Plane		Axial Force 0.000	! - 3 Plane		Axial Torq. 0.644
			Shear	Moment		Shear	Moment	
5	0.000				0.000			1.098
	0.350		153.452	162.948		0.000	0.000	
	2.500		97.224	25.673		0.000	0.000	
	4.650		40.995	168.690		0.000	0.000	
	5.000				0.000			1.098
6	0.000				0.000			-0.070
	0.350		-35.852	-249.379		0.000	0.000	
	2.500		-92.080	19.846		0.000	0.000	
	4.650		-148.309	-233.003		0.000	0.000	
	5.000				0.000			-0.070
7	0.000				0.000			0.876
	0.350		122.374	146.263		0.000	0.000	
	2.500		83.030	18.428		0.000	0.000	
	4.650		43.686	149.875		0.000	0.000	
	5.000				0.000			0.876
8	0.000				0.000			-0.125
	0.350		-39.886	-207.160		0.000	0.000	
	2.500		-79.230	13.434		0.000	0.000	
	4.650		-118.575	-194.433		0.000	0.000	
	5.000				0.000			-0.125
819								
1	0.000				0.000			-3.153
	0.350		3.919	-9.033		0.000	0.000	
	0.500		1.806	-8.603		0.000	0.000	
	0.650		-0.307	-8.491		0.000	0.000	
	1.000				0.000			-3.153
2	0.000				0.000			-0.812
	0.350		1.648	-3.114		0.000	0.000	
	0.500		1.289	-2.893		0.000	0.000	
	0.650		0.929	-2.727		0.000	0.000	
	1.000				0.000			-0.812
3	0.000				0.000			1.067
	0.350		649.611	134.657		0.000	0.000	
	0.500		649.611	37.925		0.000	0.000	
	0.650		649.611	61.106		0.000	0.000	
	1.000				0.000			1.067
4	0.000				0.000			-5.083
	0.350		7.340	-15.821		0.000	0.000	
	0.500		4.229	-14.953		0.000	0.000	
	0.650		1.119	-14.552		0.000	0.000	
	1.000			0.000				-5.083
5	0.000				0.000			-2.873
	0.350		687.592	129.289		0.000	0.000	
	0.500		685.071	28.357		0.000	0.000	
	0.650		682.550	52.955		0.000	0.000	
	1.000				0.000			-2.873
6	0.000				0.000			-5.114
	0.350		-676.592	-153.489		0.000	0.000	
	0.500		-679.113	-51.285		0.000	0.000	
	0.650		-681.633	-75.368		0.000	0.000	
	1.000				0.000			-5.114
7	0.000				0.000			-1.878
	0.350		588.178	113.061		0.000	0.000	
	0.500		586.276	26.389		0.000	0.000	
	0.650		584.374	47.354		0.000	0.000	
	1.000				0.000			-1.878

No. EL	Load Comb.	Dist. Endi.	1 - 2 Plane		Axial Force	! - 3 Plane		Axial Torq.
			Shear	Moment		Shear	Moment	
	8	0.000			0.000			-3.798
		0.350	-581.123	-129.320		0.000	0.000	
		0.500	-583.024	-41.875		0.000	0.000	
		0.650	-584.926	-62.637		0.000	0.000	
		1.000			0.000			-3.798



No. EL	Load Comb.	Dist. Endi.	1 - 2 Plane		Axial Force	! - 3 Plane		Axial Torq.	
			Shear	Moment		Shear	Moment		
1032	1	0.000			-62.636			0.026	
		0.000	7.085	-10.263		-47.230	79.059		
		1.600	7.085	1.073		-47.230	3.492		
		3.200	7.085	12.409		-47.230	-72.075		
		3.200				-62.636			0.026
	2	0.000				-21.600			0.014
		0.000	2.696	-4.233			-10.879	19.302	
		1.600	2.696	0.080			-10.879	1.896	
		3.200	2.696	4.393			-10.879	-15.510	
		3.200				-21.600			0.014
	3	0.000				189.630			3.829
		0.000	101.311	186.296			28.080	79.145	
		1.600	101.311	25.502			28.080	37.198	
		3.200	101.311	138.367			28.080	23.244	
		3.200				189.630			3.829
	4	0.000				-109.724			0.054
		0.000	12.815	-19.088			-74.081	125.754	
		1.600	12.815	1.416			-74.081	7.224	
		3.200	12.815	21.920			-74.081	-111.306	
		3.200				-109.724			0.054
5	0.000				115.199			4.059	
	0.000	116.080	181.280			-29.245	182.328		
	1.600	116.080	27.971			-29.245	44.317		
	3.200	116.080	162.006			-29.245	-64.301		
	3.200				115.199			4.059	
6	0.000				-283.024			-3.981	
	0.000	-96.673	-209.943			-88.213	16.123		
	1.600	-96.673	-25.583			-88.213	-33.799		
	3.200	-96.673	-128.566			-88.213	-113.114		
	3.200				-283.024			-3.981	
7	0.000				114.294			3.469	
	0.000	97.556	158.430			-17.235	142.384		
	1.600	97.556	23.918			-17.235	36.621		
	3.200	97.556	135.699			-17.235	-43.948		
	3.200				114.294			3.469	
8	0.000				-227.040			-3.422	
	0.000	-84.803	-176.903			-67.778	-0.078		
	1.600	-84.803	-21.986			-67.778	-30.335		
	3.200	-84.803	-113.362			-67.778	-85.788		
	3.200				-227.040			-3.422	
1132	1	0.000			-209.891			0.034	
		0.000	9.278	-14.996			-41.417	66.088	
		1.600	9.278	-0.151			-41.417	-0.179	
		3.200	9.278	14.693			-41.417	-66.446	
		3.200				-209.891			0.034
	2	0.000				-53.129			0.017
		0.000	2.866	-4.628			-7.924	12.520	
		1.600	2.866	-0.042			-7.924	-0.159	
		3.200	2.866	4.544			-7.924	-12.837	
		3.200				-53.129			0.017
	3	0.000				150.200			5.812
		0.000	186.863	315.567			62.677	138.352	
		1.600	186.863	20.988			62.677	43.414	
		3.200	186.863	282.979			62.677	68.861	
		3.200				150.200			5.812

No. EL	Load Comb.	Dist. EndL	1 - 2 Plane		Axial Force	1 - 3 Plane		Axial Torq.
			Shear	Moment		Shear	Moment	
	4	0.000			-336.875			0.067
		0.000	15.719	-25.400		-62.378	99.337	
		1.600	15.719	-0.249		-62.378	-0.468	
		3.200	15.719	24.902		-62.378	-100.274	
		3.200			-336.875			0.067
	5	0.000			-107.304			6.152
		0.000	208.355	311.712		15.667	225.178	
		1.600	208.355	21.843		15.667	45.264	
		3.200	208.355	316.373		15.667	-8.247	
		3.200			-107.304			6.152
	6	0.000			-422.723			-6.053
		0.000	-184.057	-350.978		-115.954	-65.360	
		1.600	-184.057	-22.232		-115.954	-45.906	
		3.200	-184.057	-277.884		-115.954	-152.855	
		3.200			-422.723			-6.053
	7	0.000			-53.722			5.261
		0.000	176.526	270.514		19.134	183.996	
		1.600	176.526	18.753		19.134	38.912	
		3.200	176.526	267.905		19.134	2.174	
		3.200			-53.722			5.261
	8	0.000			-324.082			-5.200
		0.000	-159.827	-297.506		-93.684	-65.037	
		1.600	-159.827	-19.026		-93.684	-39.234	
		3.200	-159.827	-241.458		-93.684	-121.776	
		3.200			-324.082			-5.200
1232								
	1	0.000			-352.898			0.029
		0.000	8.785	-14.641		-36.715	61.753	
		1.600	8.785	-0.586		-36.715	3.009	
		3.200	8.785	13.469		-36.715	-55.736	
		3.200			-352.898			0.029
	2	0.000			-84.274			0.014
		0.000	2.664	-4.447		-7.022	11.971	
		1.600	2.664	-0.184		-7.022	0.736	
		3.200	2.664	4.079		-7.022	-10.499	
		3.200			-84.274			0.014
	3	0.000			410.452			6.762
		0.000	233.581	360.600		99.109	155.613	
		1.600	233.581	22.595		99.109	30.750	
		3.200	233.581	387.732		99.109	167.233	
		3.200			410.452			6.762
	4	0.000			-558.316			0.056
		0.000	14.804	-24.684		-55.293	93.257	
		1.600	14.804	-0.998		-55.293	4.788	
		3.200	14.804	22.689		-55.293	-83.681	
		3.200			-558.316			0.056
	5	0.000			-10.359			7.141
		0.000	256.722	359.522		59.615	238.290	
		1.600	256.722	22.955		59.615	36.065	
		3.200	256.722	424.687		59.615	108.253	
		3.200			-10.359			7.141
	6	0.000			-872.307			-7.058
		0.000	-233.798	-397.739		-148.513	-88.497	
		1.600	-233.798	-24.495		-148.513	-28.510	
		3.200	-233.798	-389.550		-148.513	-242.936	
		3.200			-872.307			-7.058
	7	0.000			51.798			6.111
		0.000	218.129	311.363		56.154	195.629	

No. El.	Load Comb.	Dist. Endi.	1 - 2 Plane		Axial Force	! - 3 Plane		Axial Torq.
			Shear	Moment		Shear	Moment	
		1.600	218.129	19.808		56.154	30.382	
		3.200	218.129	361.081		56.154	100.348	
		3.200			51.798			6.111
	8	0.000			-687.015			-6.060
		0.000	-202.317	-337.717		-122.241	-84.474	
		1.600	-202.317	-20.863		-122.241	-24.967	
		3.200	-202.317	-336.837		-122.241	-200.672	
		3.200			-687.015			-6.060
-----1332-----								
	1	0.000			-489.578			-0.013
		0.000	8.807	-18.267		-26.135	61.822	
		2.000	8.807	-0.652		-26.135	9.551	
		4.000	8.807	16.963		-26.135	-42.719	
		4.000			-489.578			-0.013
	2	0.000			-114.635			0.001
		0.000	2.425	-5.116		-5.095	11.910	
		2.000	2.425	-0.266		-5.095	1.719	
		4.000	2.425	4.584		-5.095	-8.472	
		4.000			-114.635			0.001
	3	0.000			719.257			10.638
		0.000	137.627	255.711		41.034	92.567	
		2.000	137.627	36.786		41.034	43.512	
		4.000	137.627	298.073		41.034	93.210	
		4.000			719.257			10.638
	4	0.000			-770.911			-0.013
		0.000	14.449	-30.105		-39.515	93.242	
		2.000	14.449	-1.208		-39.515	14.212	
		4.000	14.449	27.690		-39.515	-64.818	
		4.000			-770.911			-0.013
	5	0.000			144.869			11.157
		0.000	155.793	245.019		11.363	172.113	
		2.000	155.793	37.717		11.363	57.160	
		4.000	155.793	334.639		11.363	45.899	
		4.000			144.869			11.157
	6	0.000			-1365.570			-11.182
		0.000	-133.223	-291.974		-74.808	-22.278	
		2.000	-133.223	-39.532		-74.808	-34.214	
		4.000	-133.223	-291.314		-74.808	-149.842	
		4.000			-1365.570			-11.182
	7	0.000			206.711			9.562
		0.000	131.791	213.700		13.409	138.950	
		2.000	131.791	32.521		13.409	47.757	
		4.000	131.791	283.533		13.409	45.442	
		4.000			206.711			9.562
	8	0.000			-1087.951			-9.586
		0.000	-115.937	-246.580		-60.452	-27.671	
		2.000	-115.937	-33.693		-60.452	-30.564	
		4.000	-115.937	-252.999		-60.452	-122.337	
		4.000			-1087.951			-9.586
-----1432-----								
	1	0.000			-595.128			-0.021
		0.000	3.453	-11.377		-5.502	17.120	
		2.250	3.453	-3.608		-5.502	4.740	
		4.500	3.453	4.161		-5.502	-7.639	
		4.500			-595.128			-0.021
	2	0.000			-139.950			-0.003
		0.000	0.903	-2.973		-1.150	3.677	
		2.250	0.903	-0.941		-1.150	1.090	
		4.500	0.903	1.090		-1.150	-1.497	

No. EL	Load Comb.	Dist. Endi.	1 - 2 Plane		Axial Force	! - 3 Plane		Axial Torq.
			Shear	Moment		Shear	Moment	
		4.500			-139.950			-0.003
3	0.000				1163.083			8.050
	0.000		165.496	290.478		128.202	136.664	
	2.250		165.496	84.534		128.202	155.626	
	4.500		165.496	455.223		128.202	442.915	
	4.500				1163.083			8.050
4	0.000				-938.074			-0.030
	0.000		5.589	-18.410		-8.442	26.426	
	2.250		5.589	-5.836		-8.442	7.432	
	4.500		5.589	6.738		-8.442	-11.562	
	4.500				-938.074			-0.030
5	0.000				478.794			8.427
	0.000		178.155	290.559		127.869	164.561	
	2.250		178.155	84.181		127.869	169.300	
	4.500		178.155	483.270		127.869	455.783	
	4.500				478.794			8.427
6	0.000				-1963.680			-8.477
	0.000		-169.387	-319.446		-141.355	-122.433	
	2.250		-169.387	-93.340		-141.355	-157.514	
	4.500		-169.387	-472.699		-141.355	-474.339	
	4.500				-1963.680			-8.477
7	0.000				511.159			7.226
	0.000		152.054	251.191		110.430	138.405	
	2.250		152.054	72.833		110.430	144.330	
	4.500		152.054	413.446		110.430	391.749	
	4.500				511.159			7.226
8	0.000				-1582.390			-7.264
	0.000		-145.839	-271.670		-120.333	-107.590	
	2.250		-145.839	-79.328		-120.333	-135.797	
	4.500		-145.839	-405.956		-120.333	-405.498	
	4.500				-1582.390			-7.264

DIAGRAM INTERAKSI KOLOM IKOLAT UERSI 4.0
 Berdasarkan SK SNI T-15-1991-03

FILE : SKRIPSI1

DATA KOLOM	
f_c'	= 25 MPa
f_y	= 400 MPa
β_1	= 0.85
Faktor ϕ	= 0.76
h	= 600 mm
b	= 600 mm
d_s	= 40 mm
Tul.	= 20 D 22
f	= 2.112 %
M_{max}	= 6401.9
M_{min}	= 839.4
M_o	= 583.9

Haryanto Yoso Wigroho
 JTS-FT-UAJY-Juni 1994

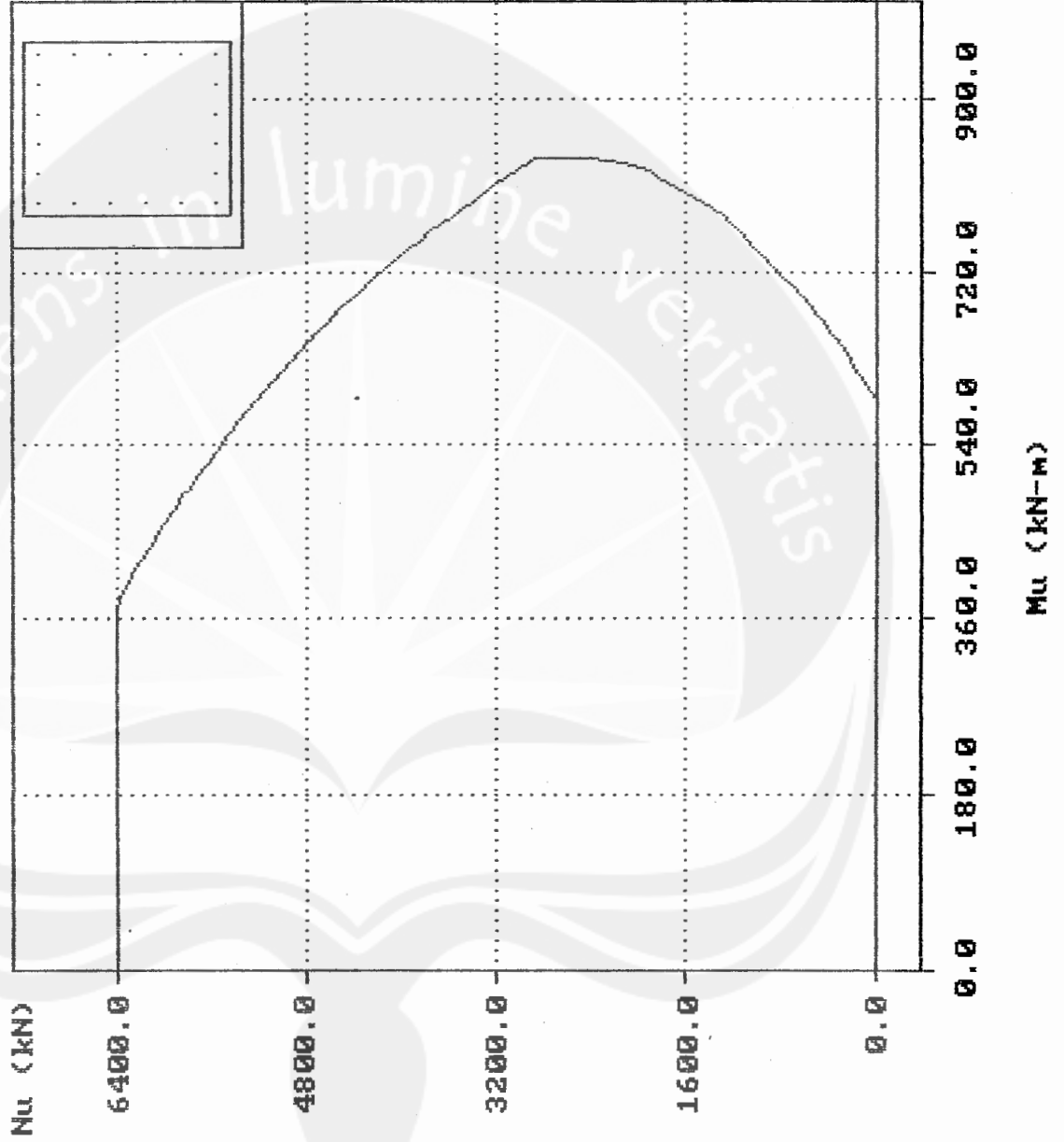
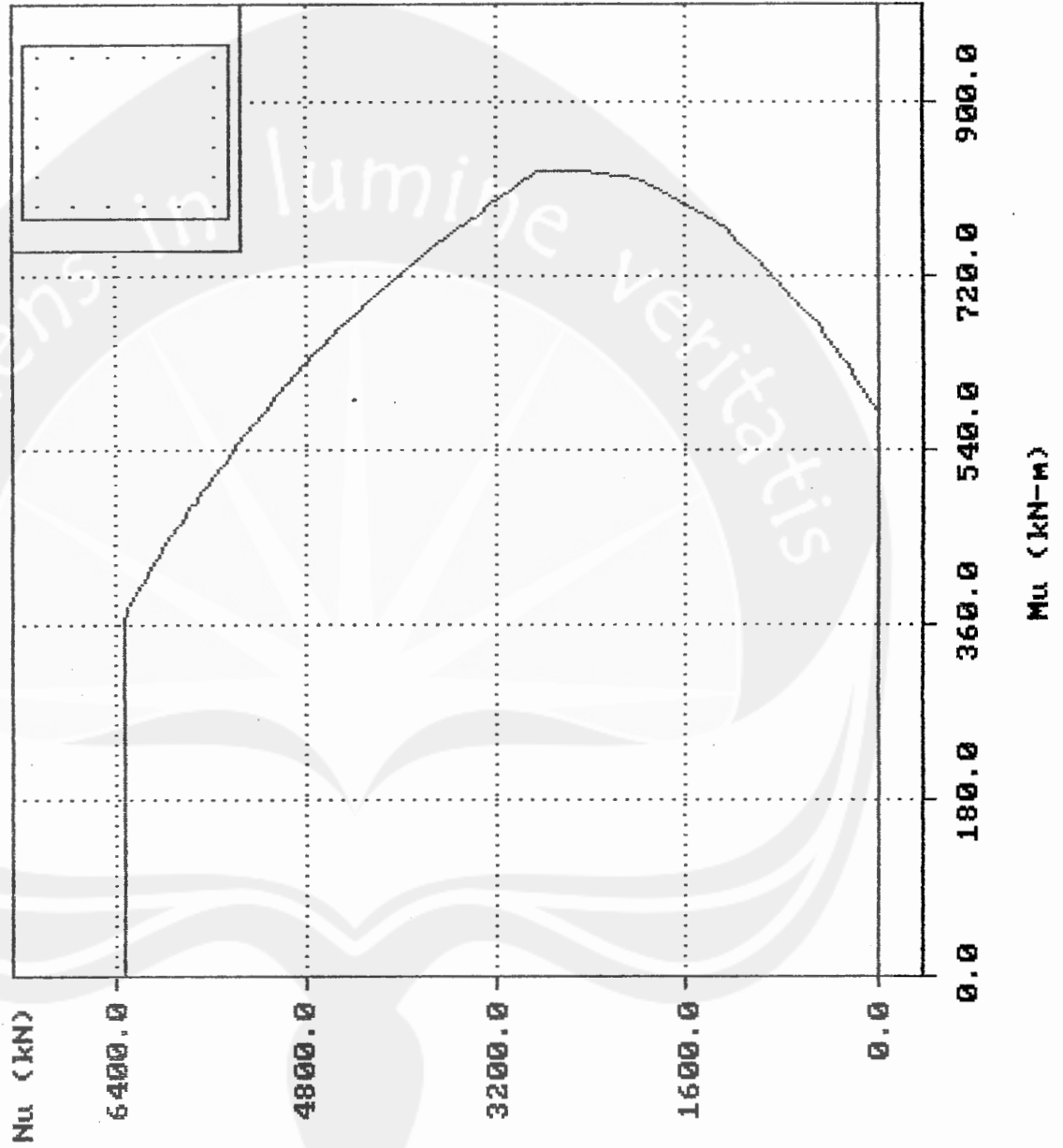


DIAGRAM INTERAKSI KOLOM IKOLAT VERSI 4.0

Berdasarkan SK SNI T-15-1991-03

FILE : SKRIPSI2

DATA KOLOM	
f_c'	= 25 MPa
f_y	= 400 MPa
ρ_l	= 0.85
Faktor ϕ	= 0.75
h	= 600 mm
b	= 600 mm
d_s	= 40 mm
Tul.	= 20 D 22
ρ	= 2.112 %
Nmax	= 6317.7
Mmax	= 828.4
Mo	= 576.2



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DIAGRAM INTERAKSI KOLOM IKOLAT UERSI 4.0

Berdasarkan SK SNI T-15-1991-03

FILE : SKRIPSI3

DATA KOLOM	
$f_c' = 25$ MPa	
$f_y = 400$ MPa	
$\rho_l = 0.85$	
Faktor $\phi = 0.70$	
$h = 600$ mm	
$b = 600$ mm	
$d_s = 40$ mm	
Tul. = 20 D 22	
$\rho = 2.112$ %	
Nmax = 5896.5	
Mmax = 773.2	
Mo = 537.8	

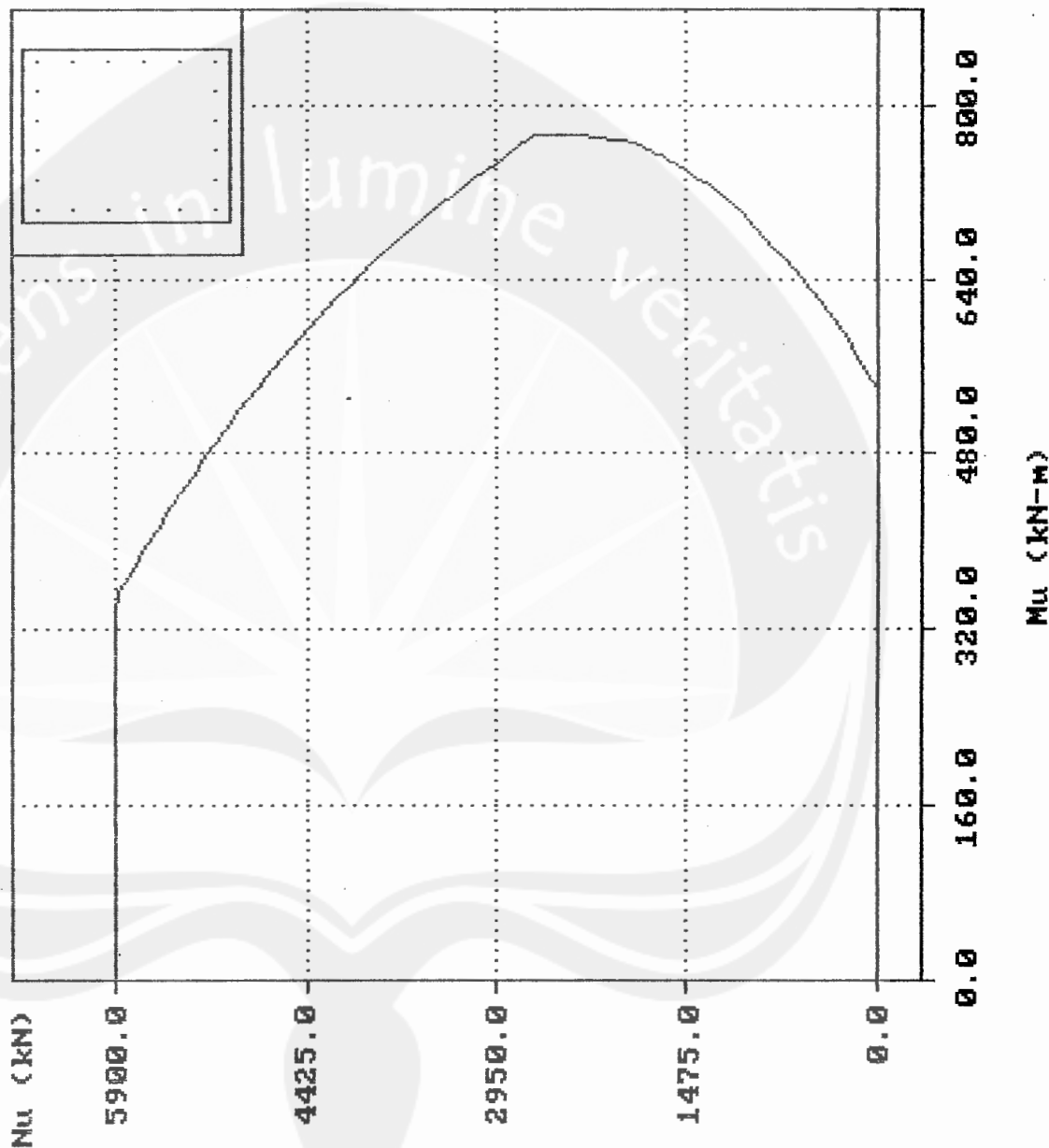
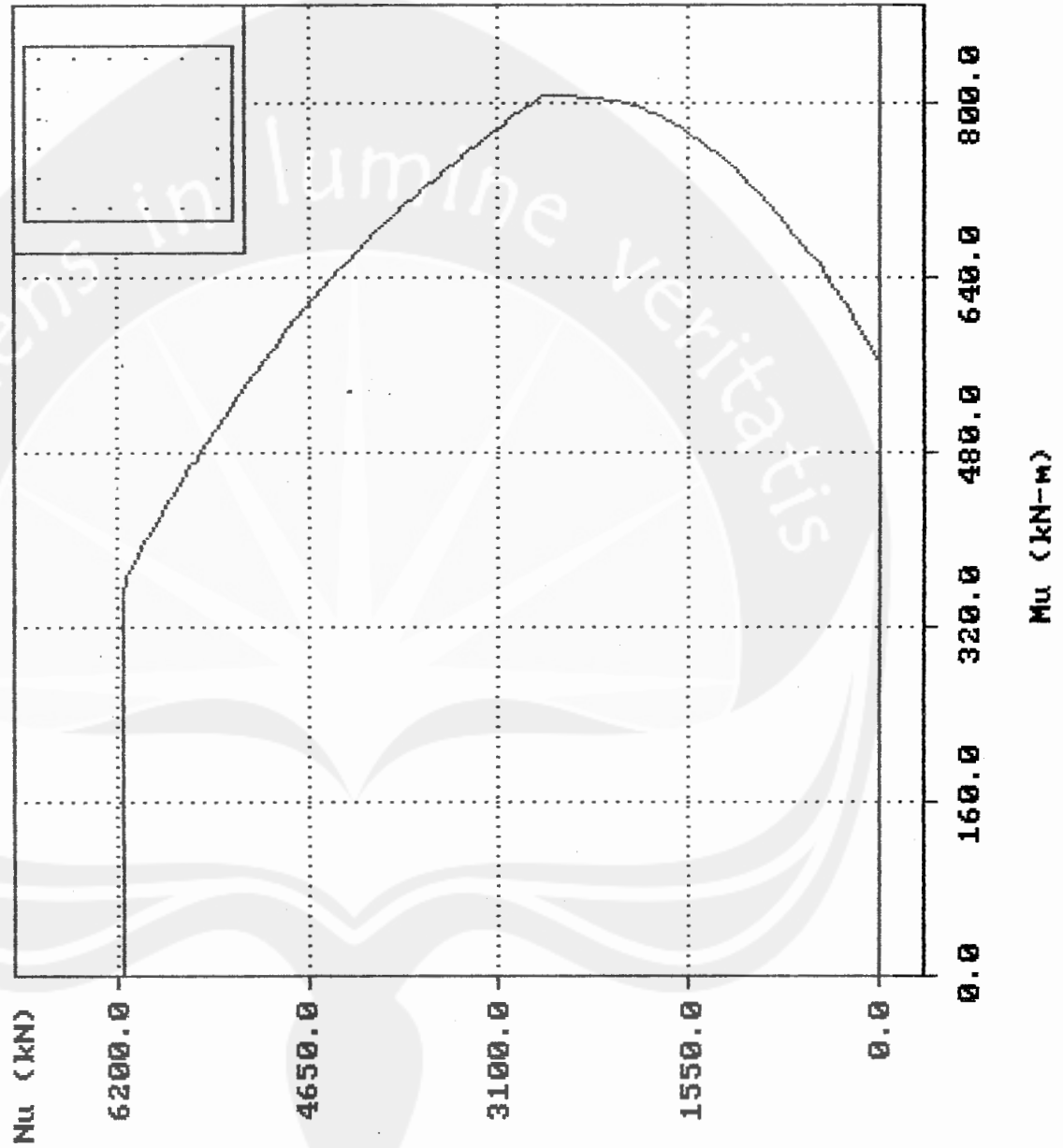


DIAGRAM INTERAKSI KOLOM IKOLAT VERSI 4.0

Berdasarkan SK SNI T-15-1991-03

FILE : SKRIPSI4

DATA KOLOM	
f_c'	= 25 MPa
f_y	= 400 MPa
ρ_l	= 0.85
Faktor ϕ	= 0.73
h	= 600 mm
b	= 600 mm
d_s	= 40 mm
Tul.	= 20 D 22
ρ	= 2.112 %
N_{max}	= 6149.2
M_{max}	= 806.3
M_o	= 560.9



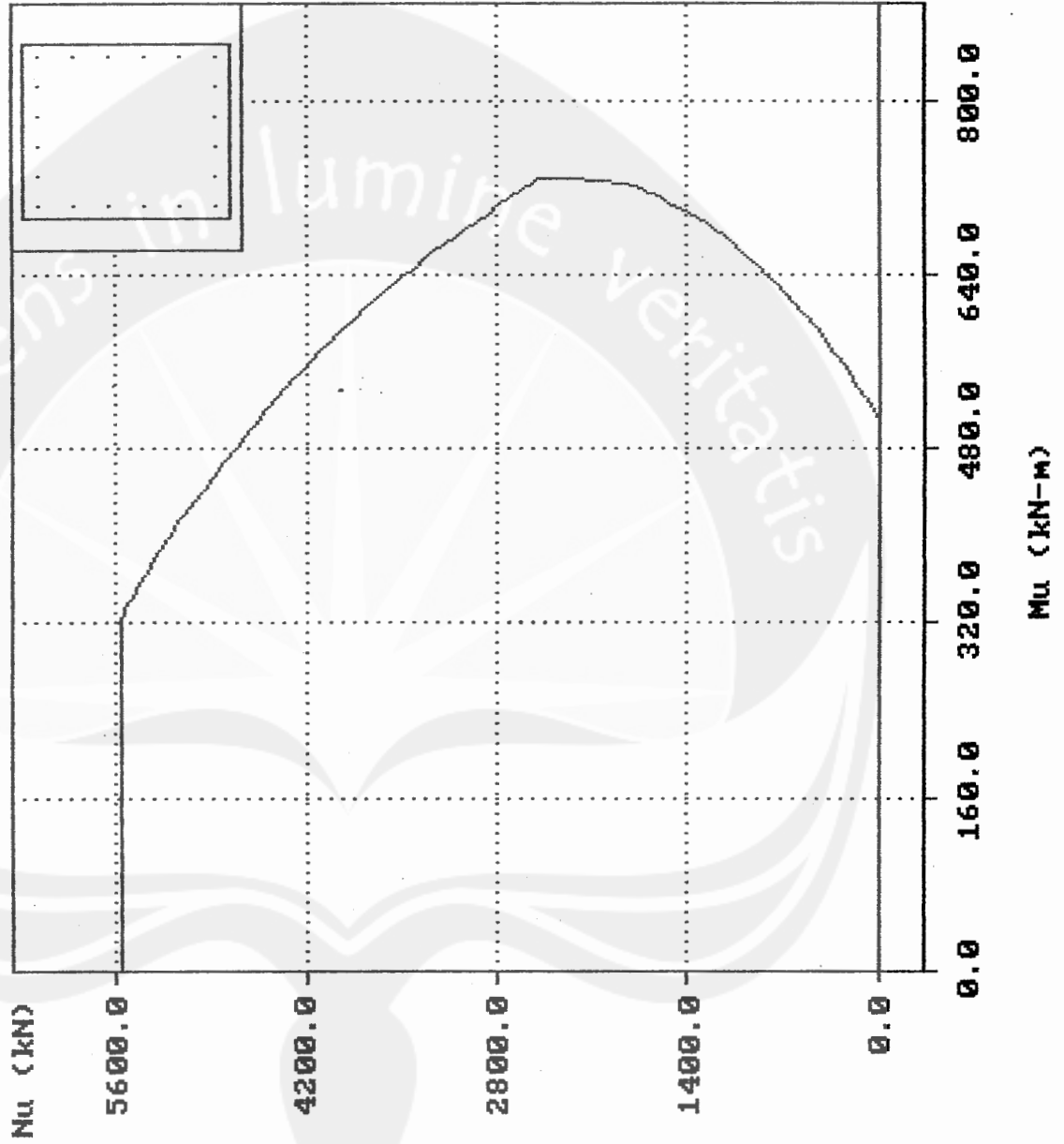
Haryanto, Yoso, Wigroho
JIS-FT-DAJY-Juni 1994

DIAGRAM INTERAKSI KOLOM IKOLAT VERSI 4.0

Berdasarkan SK SNI T-15-1991-03

FILE : SKRIPSIS15

DATA KOLOM	
f_c'	= 25 MPa
f_y	= 400 MPa
β_1	= 0.85
Faktor ϕ	= 0.66
h	= 600 MM
b	= 600 MM
d_s	= 40 MM
Tul.	= 20 D 22
ρ	= 2.112 %
N_{max}	= 5559.6
M_{max}	= 729.0
M_o	= 507.1



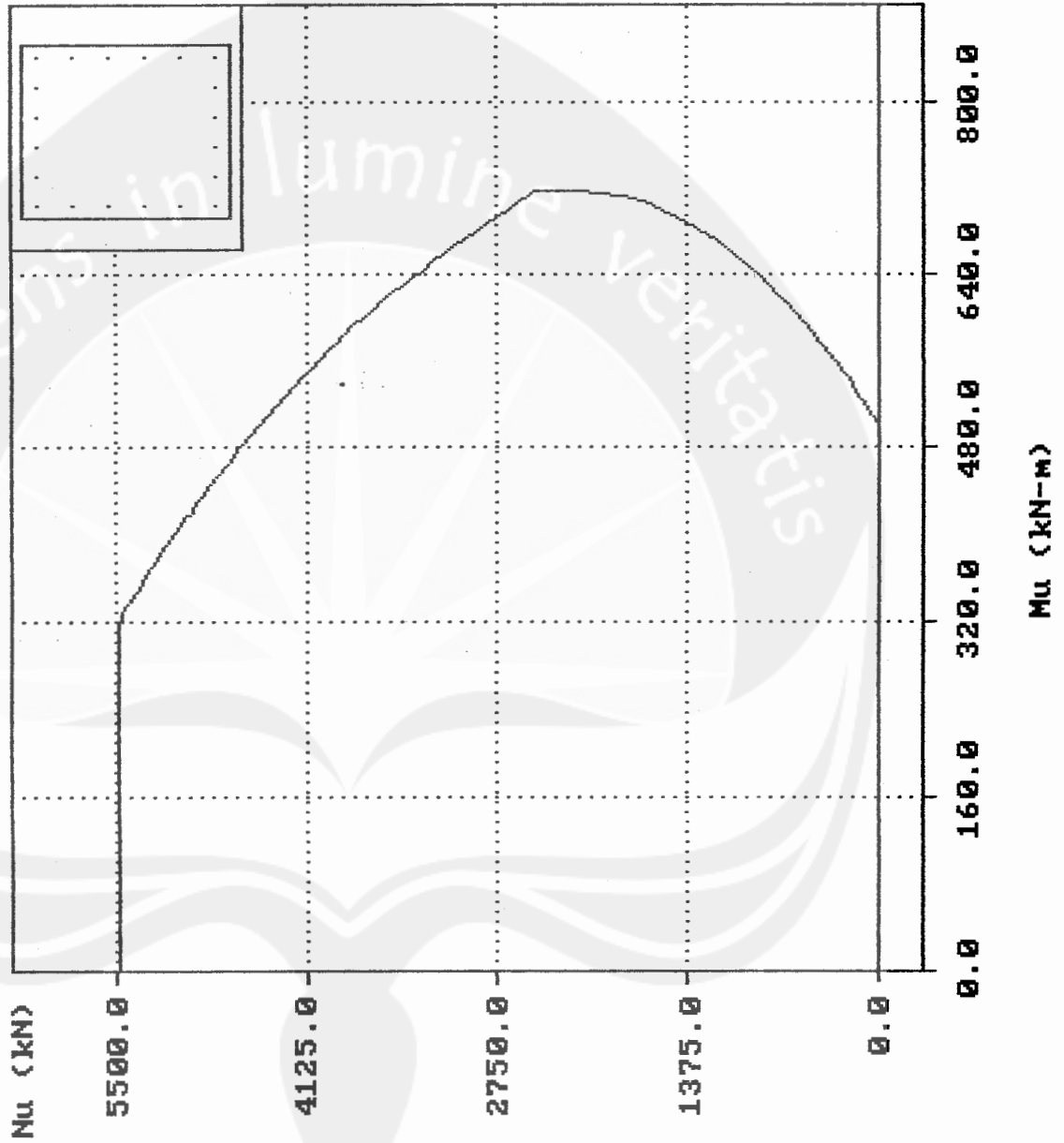
Haryanto Yoso Wigroho
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DIAGRAM INTERAKSI KOLOM IKOLAT VERSI 4.0

Berdasarkan SK SNI T-15-1991-03

FILE : SKRIPSI6

DATA KOLOM	
f_c'	= 25 MPa
f_y	= 400 MPa
β_1	= 0.85
Faktor ϕ	= 0.65
h	= 600 mm
b	= 600 mm
d_s	= 40 mm
Tul.	= 20 D 22
ρ	= 2.112 %
N _{max}	= 5475.3
M _{max}	= 717.9
M _o	= 499.4



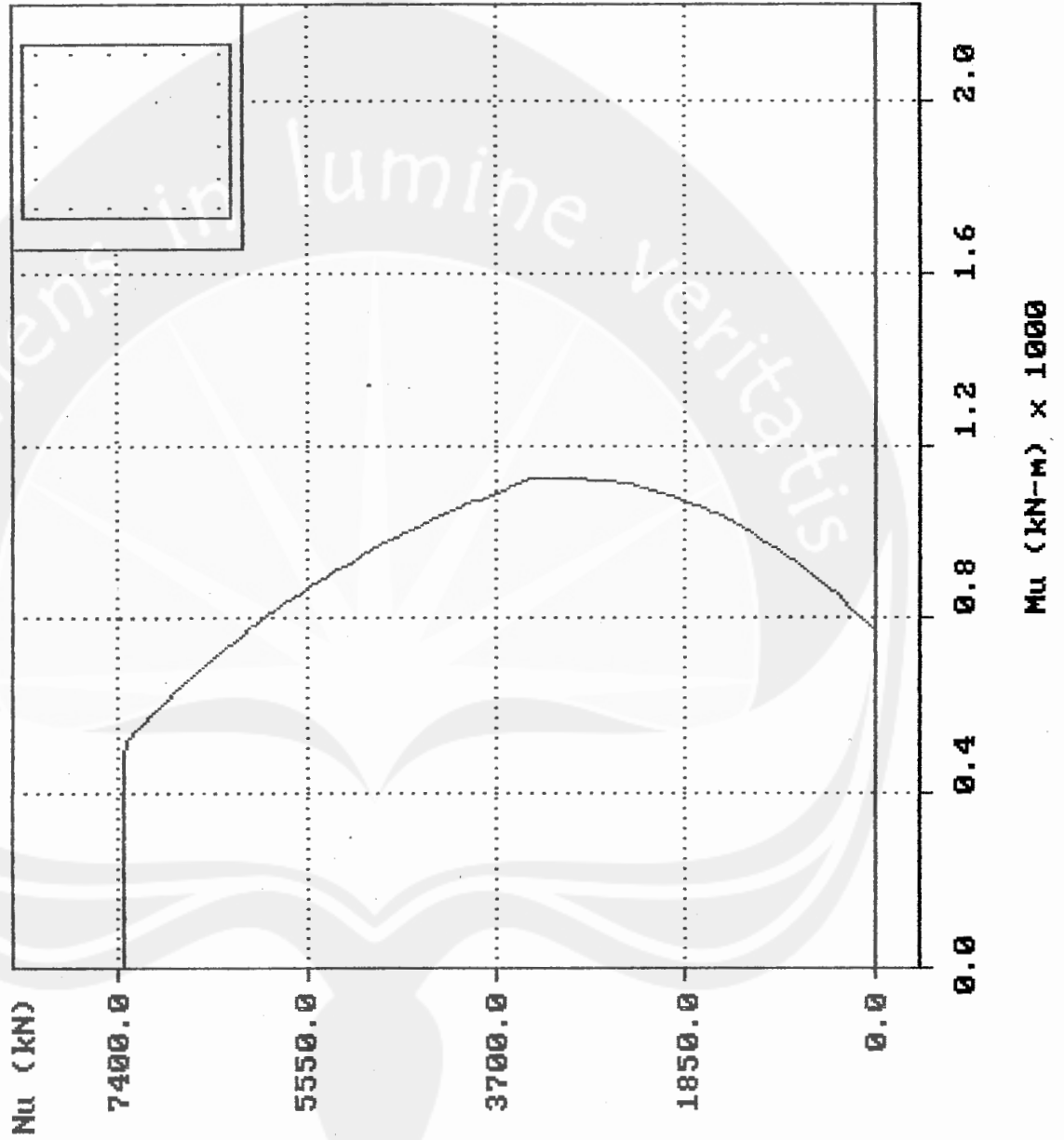
Haryanto, Yoso, Migroho
JTS-FT-UAJY-Juni 1994

DIAGRAM INTERAKSI KOLOM IKOLAT VERSI 4.0

Berdasarkan SK SNI T-15-1991-03

FILE : SKRIPSI17

DATA KOLOM	
f_c'	= 25 MPa
f_y	= 400 MPa
β_1	= 0.85
Faktor ϕ	= 0.65
h	= 700 MM
b	= 700 MM
d_s	= 40 MM
Tul.	= 20 D 25
ρ	= 2.004 %
M_{max}	= 7348.1
M_{min}	= 1125.0
M_o	= 768.8



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