

BAB VI

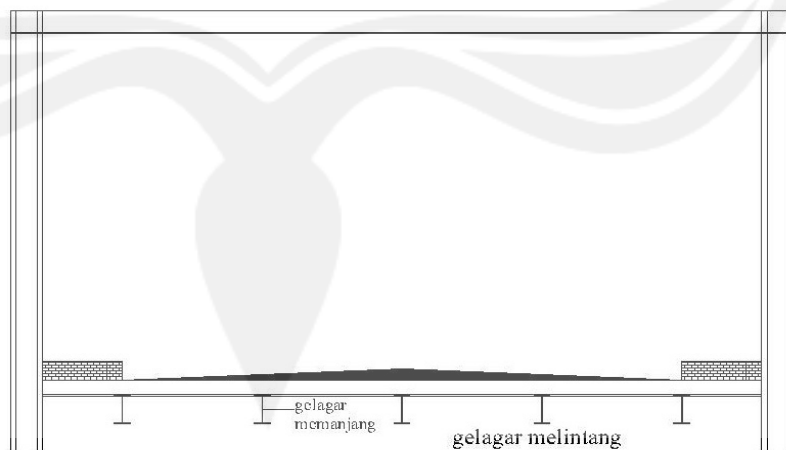
KESIMPULAN DAN SARAN

6.1. Kesimpulan

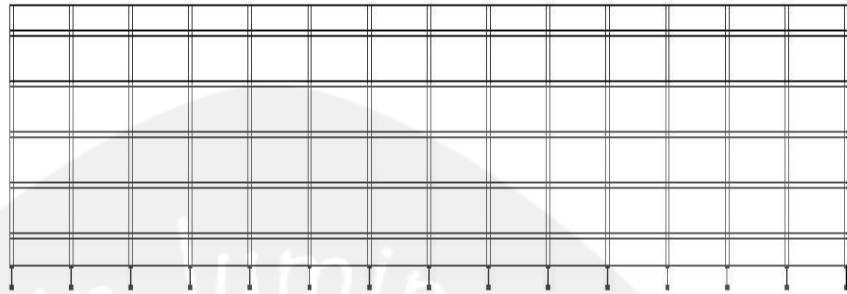
Panjang total jembatan dalam perancangan jembatan ini adalah 350 meter. Jembatan terdiri atas 5 bentang jembatan rangka baja 70 meter. Analisis Perencanaan Pembebanan Jembatan Jalan Raya didasarkan pada Pedoman Perencanaan Jembatan Jalan Raya (SKBI-1.3.28. 1987), Standar Pembebanan untuk Jembatan (RSNI T 02-2005), dan Tata Cara Perencanaan Ketahanan Gempa untuk Jembatan Jalan Raya (SNI 03-2833-1992). Dari analisis jembatan didapatkan beberapa kesimpulan :

Perancangan jembatan rangka baja :

1. Jembatan bentang 70 meter



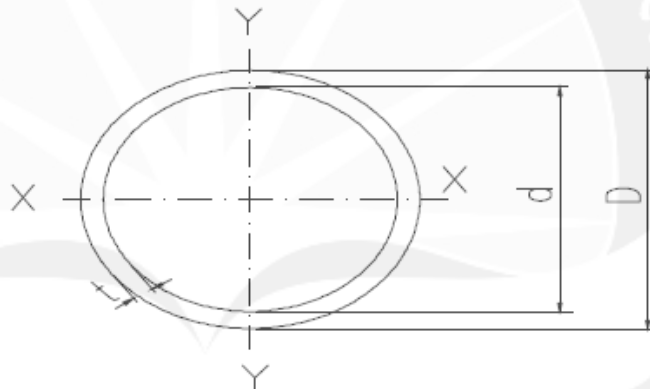
Gambar 6.1. Tampak depan jembatan



Gambar 6.2. tampak atas gelagar melintang dan gelagar memanjang

2. Tiang sandaran

Tiang sandaran menggunakan profil pipa baja dengan diameter luar 2½ inchi.



Gambar 6.3. Profil tiang sandaran

Data profil:

$$D = 76,3 \text{ mm}$$

$$d = 57,9 \text{ mm}$$

$$t = 4,2 \text{ mm}$$

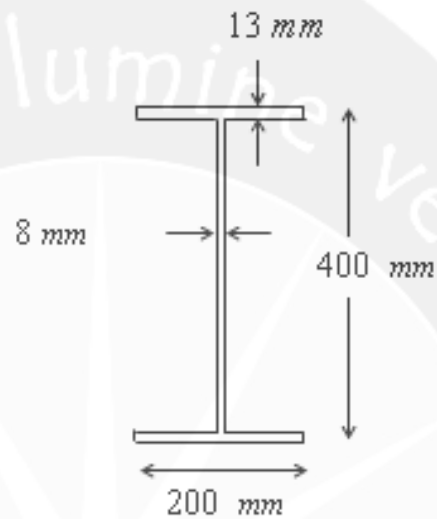
$$A = 19,4 \text{ mm}^2$$

$$I = 111,143 \text{ cm}^4$$

$$r = 2,395$$

3. Gelagar memanjang

Gelagar memanjang dengan jumlah 5 buah per bentang dengan jarak 1,75 meter.



Gambar 6.4. Profil gelagar memanjang

Gelagar memanjang menggunakan profil baja WF 400x200x8x13

Data Profil:

$$A = 84,12 \text{ cm}^2$$

$$d = 400 \text{ mm}$$

$$b_f = 200 \text{ mm}$$

$$t_f = 13 \text{ mm}$$

$$t_w = 8 \text{ mm}$$

$$r_o = 16 \text{ mm}$$

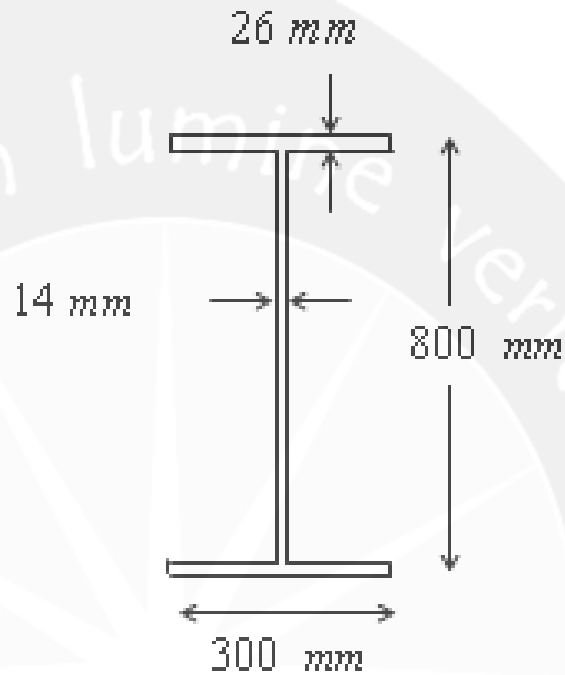
$$f_y = 250 \text{ Mpa}$$

$$r_y = 4,55 \text{ cm}$$

$$r_x = 16,8 \text{ cm.}$$

4. Gelagar melintang

Gelagar melintang menggunakan profil WF 800 x 300 x 14 x 26



Gambar 6.5. Profil gelagar melintang

Data Profil:

$$A_g = 210 \text{ kg/m}$$

$$d = 800 \text{ mm}$$

$$b_f = 300 \text{ mm}$$

$$t_f = 26 \text{ mm}$$

$$t_w = 14 \text{ mm}$$

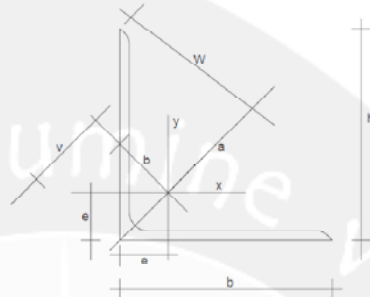
$$r_o = 28 \text{ mm}$$

$$f_y = 240 \text{ Mpa}$$

$$r_y = 6,61 \text{ cm}$$

5. Ikatan angin

Ikatan angin atas dan bawah menggunakan profil L 180x180x16.



Gambar 6.6. Profil ikatan angin

Data profil:

$$A_g = 55,4 \text{ cm}^2$$

$$I_x = I_y = 1680 \text{ cm}^4$$

$$i_x = i_y = 5,51 \text{ cm}$$

$$I_a = 2690 \text{ cm}^4$$

$$i_a = 6,96 \text{ cm}$$

$$I_b = 679 \text{ cm}^4$$

$$i_b = 3,5 \text{ cm}$$

$$e = 5,02 \text{ cm}$$

$$v = 7,11 \text{ cm}$$

$$w = 12,7 \text{ cm}.$$

6. Pelat lantai kendaraan direncanakan dengan tebal 20 cm dengan mutu beton (f'_c) = 30 MPa. Tulangan utama menggunakan D16-120mm dan tulangan sengkang D10-200mm.

7. Lapis permukaan lantai jembatan

Aspal dengan ketebalan 15 cm.

6.2. **SARAN**

Dalam menganalisa struktur jembatan, penulis menemukan banyak sekali kesulitan, ada beberapa saran yang mungkin mempermudah perancangan struktur jembatan :

1. Diperlukan kecermatan dalam menentukan ukuran elemen-elemen struktur agar tidak terjadi penentuan elemen struktur secara berulang-ulang.
2. Dalam perancangan sambungan pada elemen-elemen struktur sebaiknya digunakan alat sambung dengan bentuk dan ukuran yang hampir seragam untuk mempermudah pelaksanaan pekerjaan di lapangan.

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LAMPIRAN

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UAJY

LOAD COMBINATION MULTIPLIERS

COMBO	TYPE	CASE	FACTOR	TYPE	TITLE
COMB1	ADD			COMB1	
	DL	1.2000	STATIC(DEAD)		
	LL	1.6000	STATIC(LIVE)		

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UAJY

JOINT DISPLACEMENTS

JOINT	LOAD	U1	U2	U3	R1	R2	R3
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1 DL	0.0000	0.0000	0.0000	0.0000	1.030E-04	0.0000
1 LL	0.0000	0.0000	0.0000	0.0000	8.205E-04	0.0000
1 COMB1 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.436E-03
2 DL	0.0000	0.0000	0.0000	0.0000	-2.715E-05	0.0000
2 LL	0.0000	0.0000	0.0000	0.0000	-2.163E-04	0.0000
2 COMB1 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-3.786E-04
3 DL	0.0000	0.0000	0.0000	0.0000	8.717E-06	0.0000
3 LL	0.0000	0.0000	0.0000	0.0000	6.942E-05	0.0000
3 COMB1 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.215E-04
4 DL	0.0000	0.0000	0.0000	0.0000	-8.717E-06	0.0000
4 LL	0.0000	0.0000	0.0000	0.0000	-6.942E-05	0.0000
4 COMB1 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-1.215E-04
5 DL	0.0000	0.0000	0.0000	0.0000	2.715E-05	0.0000
5 LL	0.0000	0.0000	0.0000	0.0000	2.163E-04	0.0000
5 COMB1 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.786E-04
6 DL	0.0000	0.0000	0.0000	0.0000	-1.030E-04	0.0000

6 LL	0.0000	0.0000	0.0000	0.0000	-8.205E-04	0.0000
6 COMB1	0.0000	0.0000	0.0000	0.0000	-1.436E-03	
0.0000						

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UAJY

JOINT REACTIONS

JOINT LOAD	F1	F2	F3	M1	M2	M3
1 DL	0.0000	0.0000	0.9137	0.0000	0.0000	0.0000
1 LL	0.0000	0.0000	7.2773	0.0000	0.0000	0.0000
1 COMB1	0.0000	0.0000	12.7402	0.0000	0.0000	0.0000
0.0000						
2 DL	0.0000	0.0000	2.6114	0.0000	0.0000	0.0000
2 LL	0.0000	0.0000	20.7976	0.0000	0.0000	0.0000
2 COMB1	0.0000	0.0000	36.4098	0.0000	0.0000	0.0000
0.0000						
3 DL	0.0000	0.0000	2.2522	0.0000	0.0000	0.0000

3 LL	0.0000	0.0000	17.9369	0.0000	0.0000	0.0000
3 COMB1	0.0000	0.0000	31.4017	0.0000	0.0000	0.0000
0.0000						
4 DL	0.0000	0.0000	2.2522	0.0000	0.0000	0.0000
4 LL	0.0000	0.0000	17.9369	0.0000	0.0000	0.0000
4 COMB1	0.0000	0.0000	31.4017	0.0000	0.0000	0.0000
0.0000						
5 DL	0.0000	0.0000	2.6114	0.0000	0.0000	0.0000
5 LL	0.0000	0.0000	20.7976	0.0000	0.0000	0.0000
5 COMB1	0.0000	0.0000	36.4098	0.0000	0.0000	0.0000
0.0000						
6 DL	0.0000	0.0000	0.9137	0.0000	0.0000	0.0000
6 LL	0.0000	0.0000	7.2773	0.0000	0.0000	0.0000
6 COMB1	0.0000	0.0000	12.7402	0.0000	0.0000	0.0000
0.0000						

FRAME ELEMENT FORCES

FRAME	LOAD	LOC	P	V2	V3	T	M2	M3
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1 DL

0.00	0.00	-9.137E-01	0.00	0.00	0.00	0.00	0.00
4.4E-01	0.00	-3.360E-01	0.00	0.00	0.00	2.734E-01	
8.8E-01	0.00	2.417E-01	0.00	0.00	0.00	2.940E-01	
1.31	0.00	8.194E-01	0.00	0.00	0.00	6.189E-02	
1.75	0.00	1.40	0.00	0.00	0.00	-4.230E-01	

1 LL

0.00	0.00	-7.28	0.00	0.00	0.00	0.00	
4.4E-01	0.00	-2.68	0.00	0.00	0.00	2.18	
8.8E-01	0.00	1.93	0.00	0.00	0.00	2.34	
1.31	0.00	6.53	0.00	0.00	0.00	4.929E-01	
1.75	0.00	11.13	0.00	0.00	0.00	-3.37	

1 COMB1

0.00	0.00	-12.74	0.00	0.00	0.00	0.00	
4.4E-01	0.00	-4.69	0.00	0.00	0.00	3.81	
8.8E-01	0.00	3.37	0.00	0.00	0.00	4.10	
1.31	0.00	11.43	0.00	0.00	0.00	8.629E-01	
1.75	0.00	19.48	0.00	0.00	0.00	-5.90	

2 DL

0.00	0.00	-1.21	0.00	0.00	0.00	-4.230E-01	
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4.4E-01	0.00	-6.365E-01	0.00	0.00	0.00	-1.816E-02
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8.8E-01	0.00	-5.874E-02	0.00	0.00	0.00	1.339E-01
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1.31	0.00	5.190E-01	0.00	0.00	0.00	3.324E-02
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1.75	0.00	1.10	0.00	0.00	0.00	-3.202E-01
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2 LL

0.00	0.00	-9.67	0.00	0.00	0.00	-3.37
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4.4E-01	0.00	-5.07	0.00	0.00	0.00	-1.446E-01
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8.8E-01	0.00	-4.678E-01	0.00	0.00	0.00	1.07
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1.31	0.00	4.13	0.00	0.00	0.00	2.647E-01
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1.75	0.00	8.73	0.00	0.00	0.00	-2.55
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2 COMB1

0.00	0.00	-16.93	0.00	0.00	0.00	-5.90
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4.4E-01	0.00	-8.87	0.00	0.00	0.00	-2.532E-01
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8.8E-01	0.00	-8.190E-01	0.00	0.00	0.00	1.87
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1.31	0.00	7.24	0.00	0.00	0.00	4.634E-01
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1.75	0.00	15.29	0.00	0.00	0.00	-4.46
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3 DL

0.00	0.00	-1.16	0.00	0.00	0.00	-3.202E-01
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4.4E-01	0.00	-5.777E-01	0.00	0.00	0.00	5.894E-02
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8.8E-01	0.00	0.00	0.00	0.00	0.00	1.853E-01
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1.31	0.00	5.777E-01	0.00	0.00	0.00	5.894E-02
------	------	-----------	------	------	------	-----------

1.75	0.00	1.16	0.00	0.00	0.00	-3.202E-01
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3 LL

0.00	0.00	-9.20	0.00	0.00	0.00	-2.55
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	4.4E-01	0.00	-4.60	0.00	0.00	0.00	4.694E-01
	8.8E-01	0.00	0.00	0.00	0.00	0.00	1.48
	1.31	0.00	4.60	0.00	0.00	0.00	4.694E-01
	1.75	0.00	9.20	0.00	0.00	0.00	-2.55
3	COMB1						
	0.00	0.00	-16.11	0.00	0.00	0.00	-4.46
	4.4E-01	0.00	-8.06	0.00	0.00	0.00	8.217E-01
	8.8E-01	0.00	0.00	0.00	0.00	0.00	2.58
	1.31	0.00	8.06	0.00	0.00	0.00	8.217E-01
	1.75	0.00	16.11	0.00	0.00	0.00	-4.46
4	DL						
	0.00	0.00	-1.10	0.00	0.00	0.00	-3.202E-01
	4.4E-01	0.00	-5.190E-01	0.00	0.00	0.00	3.324E-02
	8.8E-01	0.00	5.874E-02	0.00	0.00	0.00	1.339E-01
	1.31	0.00	6.365E-01	0.00	0.00	0.00	-1.816E-02
	1.75	0.00	1.21	0.00	0.00	0.00	-4.230E-01
4	LL						
	0.00	0.00	-8.73	0.00	0.00	0.00	-2.55
	4.4E-01	0.00	-4.13	0.00	0.00	0.00	2.647E-01
	8.8E-01	0.00	4.678E-01	0.00	0.00	0.00	1.07
	1.31	0.00	5.07	0.00	0.00	0.00	-1.446E-01
	1.75	0.00	9.67	0.00	0.00	0.00	-3.37
4	COMB1						
	0.00	0.00	-15.29	0.00	0.00	0.00	-4.46

4.4E-01	0.00	-7.24	0.00	0.00	0.00	4.634E-01
8.8E-01	0.00	8.190E-01	0.00	0.00	0.00	1.87
1.31	0.00	8.87	0.00	0.00	0.00	-2.532E-01
1.75	0.00	16.93	0.00	0.00	0.00	-5.90

5 DL

0.00	0.00	-1.40	0.00	0.00	0.00	-4.230E-01
4.4E-01	0.00	-8.194E-01	0.00	0.00	0.00	6.189E-02
8.8E-01	0.00	-2.417E-01	0.00	0.00	0.00	2.940E-01
1.31	0.00	3.360E-01	0.00	0.00	0.00	2.734E-01
1.75	0.00	9.137E-01	0.00	0.00	0.00	0.00

5 LL

0.00	0.00	-11.13	0.00	0.00	0.00	-3.37
4.4E-01	0.00	-6.53	0.00	0.00	0.00	4.929E-01
8.8E-01	0.00	-1.93	0.00	0.00	0.00	2.34
1.31	0.00	2.68	0.00	0.00	0.00	2.18
1.75	0.00	7.28	0.00	0.00	0.00	0.00

5 COMB1

0.00	0.00	-19.48	0.00	0.00	0.00	-5.90
4.4E-01	0.00	-11.43	0.00	0.00	0.00	8.629E-01
8.8E-01	0.00	-3.37	0.00	0.00	0.00	4.10
1.31	0.00	4.69	0.00	0.00	0.00	3.81
1.75	0.00	12.74	0.00	0.00	0.00	0.00

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UAJY

JOINT REACTIONS

JOINT LOAD		F1	F2	F3	M1	M2	M3
1	W 0.0000	5837.8237	0.0000	4822.0308	0.0000	0.0000	0.0000
27	W 0.0000	-5837.8237	0.0000	4822.0308	0.0000	0.0000	0.0000

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UAJY

FRAME ELEMENT FORCES

FRAME	LOAD	LOC	P	V2	V3	T	M2	M3
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1 W

0.00	-2000.08	-17.66	0.00	0.00	0.00	-87.91
4.50	-2000.08	-17.66	0.00	0.00	0.00	-8.42
9.00	-2000.08	-17.66	0.00	0.00	0.00	71.06

2 W

0.00	91.02	-16.21	0.00	0.00	0.00	-75.72
4.50	91.02	-16.21	0.00	0.00	0.00	-2.79
9.00	91.02	-16.21	0.00	0.00	0.00	70.15

3 W

0.00	-117.99	-13.12	0.00	0.00	0.00	-57.80
4.50	-117.99	-13.12	0.00	0.00	0.00	1.23
9.00	-117.99	-13.12	0.00	0.00	0.00	60.26

4 W

0.00	-157.31	-10.22	0.00	0.00	0.00	-46.21
4.50	-157.31	-10.22	0.00	0.00	0.00	-2.287E-01
9.00	-157.31	-10.22	0.00	0.00	0.00	45.76

5 W

0.00	-135.59	-7.30	0.00	0.00	0.00	-32.83
4.50	-135.59	-7.30	0.00	0.00	0.00	8.103E-03

9.00	-135.59	-7.30	0.00	0.00	0.00	32.85
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6 W

0.00	-140.12	-4.38	0.00	0.00	0.00	-19.69
4.50	-140.12	-4.38	0.00	0.00	0.00	8.654E-03
9.00	-140.12	-4.38	0.00	0.00	0.00	19.71

7 W

0.00	-139.78	-1.46	0.00	0.00	0.00	-6.57
4.50	-139.78	-1.46	0.00	0.00	0.00	-3.401E-03
9.00	-139.78	-1.46	0.00	0.00	0.00	6.56

8 W

0.00	-139.78	1.46	0.00	0.00	0.00	6.57
4.50	-139.78	1.46	0.00	0.00	0.00	3.401E-03
9.00	-139.78	1.46	0.00	0.00	0.00	-6.56

9 W

0.00	-140.12	4.38	0.00	0.00	0.00	19.69
4.50	-140.12	4.38	0.00	0.00	0.00	-8.654E-03
9.00	-140.12	4.38	0.00	0.00	0.00	-19.71

10 W

0.00	-135.59	7.30	0.00	0.00	0.00	32.83
4.50	-135.59	7.30	0.00	0.00	0.00	-8.103E-03

9.00	-135.59	7.30	0.00	0.00	0.00	-32.85
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11 W

0.00	-157.31	10.22	0.00	0.00	0.00	46.21
4.50	-157.31	10.22	0.00	0.00	0.00	2.287E-01
9.00	-157.31	10.22	0.00	0.00	0.00	-45.76

12 W

0.00	-117.99	13.12	0.00	0.00	0.00	57.80
4.50	-117.99	13.12	0.00	0.00	0.00	-1.23
9.00	-117.99	13.12	0.00	0.00	0.00	-60.26

13 W

0.00	91.02	16.21	0.00	0.00	0.00	75.72
4.50	91.02	16.21	0.00	0.00	0.00	2.79
9.00	91.02	16.21	0.00	0.00	0.00	-70.15

14 W

0.00	-2000.08	17.66	0.00	0.00	0.00	87.91
4.50	-2000.08	17.66	0.00	0.00	0.00	8.42
9.00	-2000.08	17.66	0.00	0.00	0.00	-71.06

15 W

0.00	-4309.92	-106.87	0.00	0.00	0.00	-97.10
1.25	-4309.92	-106.87	0.00	0.00	0.00	36.49

2.50	-4309.92	-106.87	0.00	0.00	0.00	170.07
3.75	-4309.92	-106.87	0.00	0.00	0.00	303.66
5.00	-4309.92	-106.87	0.00	0.00	0.00	437.25

16 W

0.00	-928.14	6.90	0.00	0.00	0.00	-77.43
1.25	-928.14	6.90	0.00	0.00	0.00	-86.06
2.50	-928.14	6.90	0.00	0.00	0.00	-94.68
3.75	-928.14	6.90	0.00	0.00	0.00	-103.30
5.00	-928.14	6.90	0.00	0.00	0.00	-111.93

17 W

0.00	-2332.54	54.27	0.00	0.00	0.00	345.83
1.25	-2332.54	54.27	0.00	0.00	0.00	277.99
2.50	-2332.54	54.27	0.00	0.00	0.00	210.15
3.75	-2332.54	54.27	0.00	0.00	0.00	142.30
5.00	-2332.54	54.27	0.00	0.00	0.00	74.46

18 W

0.00	-3449.51	-86.73	0.00	0.00	0.00	-195.56
1.25	-3449.51	-86.73	0.00	0.00	0.00	-87.15
2.50	-3449.51	-86.73	0.00	0.00	0.00	21.27
3.75	-3449.51	-86.73	0.00	0.00	0.00	129.69
5.00	-3449.51	-86.73	0.00	0.00	0.00	238.10

19 W

0.00	-444.24	-33.92	0.00	0.00	0.00	5.73
1.25	-444.24	-33.92	0.00	0.00	0.00	48.13
2.50	-444.24	-33.92	0.00	0.00	0.00	90.53
3.75	-444.24	-33.92	0.00	0.00	0.00	132.92
5.00	-444.24	-33.92	0.00	0.00	0.00	175.32

20 W

0.00	-5266.41	2.23	0.00	0.00	0.00	164.68
1.25	-5266.41	2.23	0.00	0.00	0.00	161.89
2.50	-5266.41	2.23	0.00	0.00	0.00	159.10
3.75	-5266.41	2.23	0.00	0.00	0.00	156.32
5.00	-5266.41	2.23	0.00	0.00	0.00	153.53

21 W

0.00	997.91	-9.64	0.00	0.00	0.00	119.47
1.25	997.91	-9.64	0.00	0.00	0.00	131.52
2.50	997.91	-9.64	0.00	0.00	0.00	143.57
3.75	997.91	-9.64	0.00	0.00	0.00	155.61
5.00	997.91	-9.64	0.00	0.00	0.00	167.66

22 W

0.00	-6703.36	-13.50	0.00	0.00	0.00	98.69
1.25	-6703.36	-13.50	0.00	0.00	0.00	115.56
2.50	-6703.36	-13.50	0.00	0.00	0.00	132.44

3.75	-6703.36	-13.50	0.00	0.00	0.00	149.31
5.00	-6703.36	-13.50	0.00	0.00	0.00	166.18

23 W

0.00	2023.81	-7.44	0.00	0.00	0.00	128.17
1.25	2023.81	-7.44	0.00	0.00	0.00	137.47
2.50	2023.81	-7.44	0.00	0.00	0.00	146.77
3.75	2023.81	-7.44	0.00	0.00	0.00	156.07
5.00	2023.81	-7.44	0.00	0.00	0.00	165.38

24 W

0.00	-7734.25	-8.05	0.00	0.00	0.00	126.62
1.25	-7734.25	-8.05	0.00	0.00	0.00	136.69
2.50	-7734.25	-8.05	0.00	0.00	0.00	146.75
3.75	-7734.25	-8.05	0.00	0.00	0.00	156.81
5.00	-7734.25	-8.05	0.00	0.00	0.00	166.87

25 W

0.00	2641.44	-4.05	0.00	0.00	0.00	141.67
1.25	2641.44	-4.05	0.00	0.00	0.00	146.74
2.50	2641.44	-4.05	0.00	0.00	0.00	151.80
3.75	2641.44	-4.05	0.00	0.00	0.00	156.86
5.00	2641.44	-4.05	0.00	0.00	0.00	161.92

26 W

0.00	-8350.67	-3.69	0.00	0.00	0.00	143.14
1.25	-8350.67	-3.69	0.00	0.00	0.00	147.75
2.50	-8350.67	-3.69	0.00	0.00	0.00	152.37
3.75	-8350.67	-3.69	0.00	0.00	0.00	156.98
5.00	-8350.67	-3.69	0.00	0.00	0.00	161.59

27 W

0.00	2847.07	0.00	0.00	0.00	0.00	154.01
1.25	2847.07	0.00	0.00	0.00	0.00	154.01
2.50	2847.07	0.00	0.00	0.00	0.00	154.01
3.75	2847.07	0.00	0.00	0.00	0.00	154.01
5.00	2847.07	0.00	0.00	0.00	0.00	154.01

28 W

0.00	-8556.39	0.00	0.00	0.00	0.00	153.69
1.25	-8556.39	0.00	0.00	0.00	0.00	153.69
2.50	-8556.39	0.00	0.00	0.00	0.00	153.69
3.75	-8556.39	0.00	0.00	0.00	0.00	153.69
5.00	-8556.39	0.00	0.00	0.00	0.00	153.69

29 W

0.00	2641.44	4.05	0.00	0.00	0.00	161.92
1.25	2641.44	4.05	0.00	0.00	0.00	156.86
2.50	2641.44	4.05	0.00	0.00	0.00	151.80
3.75	2641.44	4.05	0.00	0.00	0.00	146.74

5.00	2641.44	4.05	0.00	0.00	0.00	141.67
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30 W

0.00	-8350.67	3.69	0.00	0.00	0.00	161.59
1.25	-8350.67	3.69	0.00	0.00	0.00	156.98
2.50	-8350.67	3.69	0.00	0.00	0.00	152.37
3.75	-8350.67	3.69	0.00	0.00	0.00	147.75
5.00	-8350.67	3.69	0.00	0.00	0.00	143.14

31 W

0.00	2023.81	7.44	0.00	0.00	0.00	165.38
1.25	2023.81	7.44	0.00	0.00	0.00	156.07
2.50	2023.81	7.44	0.00	0.00	0.00	146.77
3.75	2023.81	7.44	0.00	0.00	0.00	137.47
5.00	2023.81	7.44	0.00	0.00	0.00	128.17

32 W

0.00	-7734.25	8.05	0.00	0.00	0.00	166.87
1.25	-7734.25	8.05	0.00	0.00	0.00	156.81
2.50	-7734.25	8.05	0.00	0.00	0.00	146.75
3.75	-7734.25	8.05	0.00	0.00	0.00	136.69
5.00	-7734.25	8.05	0.00	0.00	0.00	126.62

33 W

0.00	997.91	9.64	0.00	0.00	0.00	167.66
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1.25	997.91	9.64	0.00	0.00	0.00	155.61
2.50	997.91	9.64	0.00	0.00	0.00	143.57
3.75	997.91	9.64	0.00	0.00	0.00	131.52
5.00	997.91	9.64	0.00	0.00	0.00	119.47

34 W

0.00	-6703.36	13.50	0.00	0.00	0.00	166.18
1.25	-6703.36	13.50	0.00	0.00	0.00	149.31
2.50	-6703.36	13.50	0.00	0.00	0.00	132.44
3.75	-6703.36	13.50	0.00	0.00	0.00	115.56
5.00	-6703.36	13.50	0.00	0.00	0.00	98.69

35 W

0.00	-444.24	33.92	0.00	0.00	0.00	175.32
1.25	-444.24	33.92	0.00	0.00	0.00	132.92
2.50	-444.24	33.92	0.00	0.00	0.00	90.53
3.75	-444.24	33.92	0.00	0.00	0.00	48.13
5.00	-444.24	33.92	0.00	0.00	0.00	5.73

36 W

0.00	-5266.41	-2.23	0.00	0.00	0.00	153.53
1.25	-5266.41	-2.23	0.00	0.00	0.00	156.32
2.50	-5266.41	-2.23	0.00	0.00	0.00	159.10
3.75	-5266.41	-2.23	0.00	0.00	0.00	161.89
5.00	-5266.41	-2.23	0.00	0.00	0.00	164.68

37 W

0.00	-2332.54	-54.27	0.00	0.00	0.00	74.46
1.25	-2332.54	-54.27	0.00	0.00	0.00	142.30
2.50	-2332.54	-54.27	0.00	0.00	0.00	210.15
3.75	-2332.54	-54.27	0.00	0.00	0.00	277.99
5.00	-2332.54	-54.27	0.00	0.00	0.00	345.83

38 W

0.00	-3449.51	86.73	0.00	0.00	0.00	238.10
1.25	-3449.51	86.73	0.00	0.00	0.00	129.69
2.50	-3449.51	86.73	0.00	0.00	0.00	21.27
3.75	-3449.51	86.73	0.00	0.00	0.00	-87.15
5.00	-3449.51	86.73	0.00	0.00	0.00	-195.56

39 W

0.00	-4309.92	106.87	0.00	0.00	0.00	437.25
1.25	-4309.92	106.87	0.00	0.00	0.00	303.66
2.50	-4309.92	106.87	0.00	0.00	0.00	170.07
3.75	-4309.92	106.87	0.00	0.00	0.00	36.49
5.00	-4309.92	106.87	0.00	0.00	0.00	-97.10

40 W

0.00	-928.14	-6.90	0.00	0.00	0.00	-111.93
1.25	-928.14	-6.90	0.00	0.00	0.00	-103.30

2.50	-928.14	-6.90	0.00	0.00	0.00	-94.68
3.75	-928.14	-6.90	0.00	0.00	0.00	-86.06
5.00	-928.14	-6.90	0.00	0.00	0.00	-77.43

41 W

0.00	-3106.84	1.62	0.00	0.00	0.00	9.20
5.15	-3106.84	1.62	0.00	0.00	0.00	8.412E-01
10.30	-3106.84	1.62	0.00	0.00	0.00	-7.51

42 W

0.00	-2160.87	1.48	0.00	0.00	0.00	8.06
5.15	-2160.87	1.48	0.00	0.00	0.00	4.255E-01
10.30	-2160.87	1.48	0.00	0.00	0.00	-7.21

43 W

0.00	-1810.75	9.931E-01	0.00	0.00	0.00	5.40
5.15	-1810.75	9.931E-01	0.00	0.00	0.00	2.829E-01
10.30	-1810.75	9.931E-01	0.00	0.00	0.00	-4.83

44 W

0.00	-1396.41	7.989E-01	0.00	0.00	0.00	4.51
5.15	-1396.41	7.989E-01	0.00	0.00	0.00	4.000E-01
10.30	-1396.41	7.989E-01	0.00	0.00	0.00	-3.71

45 W

0.00	-971.20	5.320E-01	0.00	0.00	0.00	3.15
5.15	-971.20	5.320E-01	0.00	0.00	0.00	4.089E-01
10.30	-971.20	5.320E-01	0.00	0.00	0.00	-2.33

46 W

0.00	-552.41	2.725E-01	0.00	0.00	0.00	1.83
5.15	-552.41	2.725E-01	0.00	0.00	0.00	4.245E-01
10.30	-552.41	2.725E-01	0.00	0.00	0.00	-9.783E-01

47 W

0.00	-132.27	1.444E-02	0.00	0.00	0.00	5.042E-01
5.15	-132.27	1.444E-02	0.00	0.00	0.00	4.298E-01
10.30	-132.27	1.444E-02	0.00	0.00	0.00	3.554E-01

48 W

0.00	287.67	-2.451E-01	0.00	0.00	0.00	-8.365E-01
5.15	287.67	-2.451E-01	0.00	0.00	0.00	4.252E-01
10.30	287.67	-2.451E-01	0.00	0.00	0.00	1.69

49 W

0.00	708.95	-5.031E-01	0.00	0.00	0.00	-2.18
5.15	708.95	-5.031E-01	0.00	0.00	0.00	4.111E-01
10.30	708.95	-5.031E-01	0.00	0.00	0.00	3.00

50 W

0.00	1123.93	-7.541E-01	0.00	0.00	0.00	-3.51
5.15	1123.93	-7.541E-01	0.00	0.00	0.00	3.710E-01
10.30	1123.93	-7.541E-01	0.00	0.00	0.00	4.25

51 W

0.00	1548.74	-1.08	0.00	0.00	0.00	-5.12
5.15	1548.74	-1.08	0.00	0.00	0.00	4.144E-01
10.30	1548.74	-1.08	0.00	0.00	0.00	5.95

52 W

0.00	2046.68	-1.12	0.00	0.00	0.00	-5.54
5.15	2046.68	-1.12	0.00	0.00	0.00	2.210E-01
10.30	2046.68	-1.12	0.00	0.00	0.00	5.98

53 W

0.00	1872.33	-1.36	0.00	0.00	0.00	-7.63
5.15	1872.33	-1.36	0.00	0.00	0.00	-6.306E-01
10.30	1872.33	-1.36	0.00	0.00	0.00	6.37

54 W

0.00	1872.33	-1.36	0.00	0.00	0.00	-7.63
5.15	1872.33	-1.36	0.00	0.00	0.00	-6.306E-01
10.30	1872.33	-1.36	0.00	0.00	0.00	6.37

55 W

0.00	2046.68	-1.12	0.00	0.00	0.00	-5.54
5.15	2046.68	-1.12	0.00	0.00	0.00	2.210E-01
10.30	2046.68	-1.12	0.00	0.00	0.00	5.98

56 W

0.00	1548.74	-1.08	0.00	0.00	0.00	-5.12
5.15	1548.74	-1.08	0.00	0.00	0.00	4.144E-01
10.30	1548.74	-1.08	0.00	0.00	0.00	5.95

57 W

0.00	1123.93	-7.541E-01	0.00	0.00	0.00	-3.51
5.15	1123.93	-7.541E-01	0.00	0.00	0.00	3.710E-01
10.30	1123.93	-7.541E-01	0.00	0.00	0.00	4.25

58 W

0.00	708.95	-5.031E-01	0.00	0.00	0.00	-2.18
5.15	708.95	-5.031E-01	0.00	0.00	0.00	4.111E-01
10.30	708.95	-5.031E-01	0.00	0.00	0.00	3.00

59 W

0.00	287.67	-2.451E-01	0.00	0.00	0.00	-8.365E-01
5.15	287.67	-2.451E-01	0.00	0.00	0.00	4.252E-01
10.30	287.67	-2.451E-01	0.00	0.00	0.00	1.69

60 W

0.00	-132.27	1.444E-02	0.00	0.00	0.00	5.042E-01
5.15	-132.27	1.444E-02	0.00	0.00	0.00	4.298E-01
10.30	-132.27	1.444E-02	0.00	0.00	0.00	3.554E-01

61 W

0.00	-552.41	2.725E-01	0.00	0.00	0.00	1.83
5.15	-552.41	2.725E-01	0.00	0.00	0.00	4.245E-01
10.30	-552.41	2.725E-01	0.00	0.00	0.00	-9.783E-01

62 W

0.00	-971.20	5.320E-01	0.00	0.00	0.00	3.15
5.15	-971.20	5.320E-01	0.00	0.00	0.00	4.089E-01
10.30	-971.20	5.320E-01	0.00	0.00	0.00	-2.33

63 W

0.00	-1396.41	7.989E-01	0.00	0.00	0.00	4.51
5.15	-1396.41	7.989E-01	0.00	0.00	0.00	4.000E-01
10.30	-1396.41	7.989E-01	0.00	0.00	0.00	-3.71

64 W

0.00	-1810.75	9.931E-01	0.00	0.00	0.00	5.40
5.15	-1810.75	9.931E-01	0.00	0.00	0.00	2.829E-01
10.30	-1810.75	9.931E-01	0.00	0.00	0.00	-4.83

65 W

0.00	-2160.87	1.48	0.00	0.00	0.00	8.06
5.15	-2160.87	1.48	0.00	0.00	0.00	4.255E-01
10.30	-2160.87	1.48	0.00	0.00	0.00	-7.21

66 W

0.00	-3106.84	1.62	0.00	0.00	0.00	9.20
5.15	-3106.84	1.62	0.00	0.00	0.00	8.412E-01
10.30	-3106.84	1.62	0.00	0.00	0.00	-7.51

3/17/14 15:32:26

UAJY

JOINT REACTIONS

JOINT LOAD		F1	F2	F3	M1	M2	M3
1	W 0.0000	0.0000	0.0000	15322.0342	0.0000	0.0000	0.0000
29	W 0.0000	0.0000	0.0000	15322.0342	0.0000	0.0000	0.0000

3/17/14 15:32:26

UAJY

FRAME ELEMENT FORCES

FRAME	LOAD	LOC	P	V2	V3	T	M2	M3
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1 W

0.00	-7552.01	-676.54	0.00	0.00	0.00	-3189.64
4.50	-7552.01	-676.54	0.00	0.00	0.00	-145.19
9.00	-7552.01	-676.54	0.00	0.00	0.00	2899.25

2 W

0.00	-575.32	-863.37	0.00	0.00	0.00	-3952.11
4.50	-575.32	-863.37	0.00	0.00	0.00	-66.97
9.00	-575.32	-863.37	0.00	0.00	0.00	3818.17

3 W

0.00	-810.22	-698.39	0.00	0.00	0.00	-3125.46
4.50	-810.22	-698.39	0.00	0.00	0.00	17.29
9.00	-810.22	-698.39	0.00	0.00	0.00	3160.04

4 W

0.00	-869.72	-560.26	0.00	0.00	0.00	-2523.96
4.50	-869.72	-560.26	0.00	0.00	0.00	-2.79
9.00	-869.72	-560.26	0.00	0.00	0.00	2518.39

5 W

0.00	-852.66	-420.08	0.00	0.00	0.00	-1890.03
4.50	-852.66	-420.08	0.00	0.00	0.00	3.451E-01

9.00	-852.66	-420.08	0.00	0.00	0.00	1890.72
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6 W

0.00	-855.51	-280.06	0.00	0.00	0.00	-1260.32
4.50	-855.51	-280.06	0.00	0.00	0.00	-3.236E-02
9.00	-855.51	-280.06	0.00	0.00	0.00	1260.25

7 W

0.00	-855.15	-140.03	0.00	0.00	0.00	-630.14
4.50	-855.15	-140.03	0.00	0.00	0.00	1.746E-03
9.00	-855.15	-140.03	0.00	0.00	0.00	630.14

8 W

0.00	-855.19	0.00	0.00	0.00	0.00	0.00
4.50	-855.19	0.00	0.00	0.00	0.00	0.00
9.00	-855.19	0.00	0.00	0.00	0.00	0.00

9 W

0.00	-855.15	140.03	0.00	0.00	0.00	630.14
4.50	-855.15	140.03	0.00	0.00	0.00	-1.746E-03
9.00	-855.15	140.03	0.00	0.00	0.00	-630.14

10 W

0.00	-855.51	280.06	0.00	0.00	0.00	1260.32
4.50	-855.51	280.06	0.00	0.00	0.00	3.236E-02

9.00	-855.51	280.06	0.00	0.00	0.00	-1260.25
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11 W

0.00	-852.66	420.08	0.00	0.00	0.00	1890.03
4.50	-852.66	420.08	0.00	0.00	0.00	-3.451E-01
9.00	-852.66	420.08	0.00	0.00	0.00	-1890.72

12 W

0.00	-869.72	560.26	0.00	0.00	0.00	2523.96
4.50	-869.72	560.26	0.00	0.00	0.00	2.79
9.00	-869.72	560.26	0.00	0.00	0.00	-2518.39

13 W

0.00	-810.22	698.39	0.00	0.00	0.00	3125.46
4.50	-810.22	698.39	0.00	0.00	0.00	-17.29
9.00	-810.22	698.39	0.00	0.00	0.00	-3160.04

14 W

0.00	-575.32	863.37	0.00	0.00	0.00	3952.11
4.50	-575.32	863.37	0.00	0.00	0.00	66.97
9.00	-575.32	863.37	0.00	0.00	0.00	-3818.17

15 W

0.00	-7552.01	676.54	0.00	0.00	0.00	3189.64
4.50	-7552.01	676.54	0.00	0.00	0.00	145.19

9.00	-7552.01	676.54	0.00	0.00	0.00	-2899.25
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16 W

0.00	4324.91	-1208.19	0.00	0.00	0.00	-3202.59
1.25	4324.91	-1208.19	0.00	0.00	0.00	-1692.35
2.50	4324.91	-1208.19	0.00	0.00	0.00	-182.10
3.75	4324.91	-1208.19	0.00	0.00	0.00	1328.14
5.00	4324.91	-1208.19	0.00	0.00	0.00	2838.38

17 W

0.00	-3693.41	-1032.50	0.00	0.00	0.00	-2911.19
1.25	-3693.41	-1032.50	0.00	0.00	0.00	-1620.56
2.50	-3693.41	-1032.50	0.00	0.00	0.00	-329.93
3.75	-3693.41	-1032.50	0.00	0.00	0.00	960.70
5.00	-3693.41	-1032.50	0.00	0.00	0.00	2251.33

18 W

0.00	11223.65	-630.56	0.00	0.00	0.00	-1144.10
1.25	11223.65	-630.56	0.00	0.00	0.00	-355.89
2.50	11223.65	-630.56	0.00	0.00	0.00	432.31
3.75	11223.65	-630.56	0.00	0.00	0.00	1220.51
5.00	11223.65	-630.56	0.00	0.00	0.00	2008.72

19 W

0.00	-11115.80	-747.07	0.00	0.00	0.00	-1594.61
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1.25	-11115.80	-747.07	0.00	0.00	0.00	-660.77
2.50	-11115.80	-747.07	0.00	0.00	0.00	273.07
3.75	-11115.80	-747.07	0.00	0.00	0.00	1206.92
5.00	-11115.80	-747.07	0.00	0.00	0.00	2140.76

20 W

0.00	17312.76	-594.36	0.00	0.00	0.00	-1141.62
1.25	17312.76	-594.36	0.00	0.00	0.00	-398.67
2.50	17312.76	-594.36	0.00	0.00	0.00	344.28
3.75	17312.76	-594.36	0.00	0.00	0.00	1087.23
5.00	17312.76	-594.36	0.00	0.00	0.00	1830.18

21 W

0.00	-17182.32	-571.16	0.00	0.00	0.00	-1045.67
1.25	-17182.32	-571.16	0.00	0.00	0.00	-331.72
2.50	-17182.32	-571.16	0.00	0.00	0.00	382.22
3.75	-17182.32	-571.16	0.00	0.00	0.00	1096.17
5.00	-17182.32	-571.16	0.00	0.00	0.00	1810.11

22 W

0.00	22168.56	-450.20	0.00	0.00	0.00	-714.33
1.25	22168.56	-450.20	0.00	0.00	0.00	-151.57
2.50	22168.56	-450.20	0.00	0.00	0.00	411.18
3.75	22168.56	-450.20	0.00	0.00	0.00	973.93
5.00	22168.56	-450.20	0.00	0.00	0.00	1536.68

23 W

0.00	-22034.76	-453.52	0.00	0.00	0.00	-728.53
1.25	-22034.76	-453.52	0.00	0.00	0.00	-161.64
2.50	-22034.76	-453.52	0.00	0.00	0.00	405.26
3.75	-22034.76	-453.52	0.00	0.00	0.00	972.15
5.00	-22034.76	-453.52	0.00	0.00	0.00	1539.05

24 W

0.00	25809.17	-323.04	0.00	0.00	0.00	-368.64
1.25	25809.17	-323.04	0.00	0.00	0.00	35.16
2.50	25809.17	-323.04	0.00	0.00	0.00	438.96
3.75	25809.17	-323.04	0.00	0.00	0.00	842.76
5.00	25809.17	-323.04	0.00	0.00	0.00	1246.56

25 W

0.00	-25676.49	-322.67	0.00	0.00	0.00	-367.01
1.25	-25676.49	-322.67	0.00	0.00	0.00	36.33
2.50	-25676.49	-322.67	0.00	0.00	0.00	439.67
3.75	-25676.49	-322.67	0.00	0.00	0.00	843.01
5.00	-25676.49	-322.67	0.00	0.00	0.00	1246.35

26 W

0.00	28236.68	-193.69	0.00	0.00	0.00	-23.97
1.25	28236.68	-193.69	0.00	0.00	0.00	218.14

2.50	28236.68	-193.69	0.00	0.00	0.00	460.26
3.75	28236.68	-193.69	0.00	0.00	0.00	702.37
5.00	28236.68	-193.69	0.00	0.00	0.00	944.49

27 W

0.00	-28103.80	-193.72	0.00	0.00	0.00	-24.11
1.25	-28103.80	-193.72	0.00	0.00	0.00	218.04
2.50	-28103.80	-193.72	0.00	0.00	0.00	460.19
3.75	-28103.80	-193.72	0.00	0.00	0.00	702.35
5.00	-28103.80	-193.72	0.00	0.00	0.00	944.50

28 W

0.00	29450.38	-64.57	0.00	0.00	0.00	309.25
1.25	29450.38	-64.57	0.00	0.00	0.00	389.96
2.50	29450.38	-64.57	0.00	0.00	0.00	470.67
3.75	29450.38	-64.57	0.00	0.00	0.00	551.38
5.00	29450.38	-64.57	0.00	0.00	0.00	632.09

29 W

0.00	-29317.52	-64.57	0.00	0.00	0.00	309.25
1.25	-29317.52	-64.57	0.00	0.00	0.00	389.96
2.50	-29317.52	-64.57	0.00	0.00	0.00	470.67
3.75	-29317.52	-64.57	0.00	0.00	0.00	551.39
5.00	-29317.52	-64.57	0.00	0.00	0.00	632.10

30 W

0.00	29450.38	64.57	0.00	0.00	0.00	632.09
1.25	29450.38	64.57	0.00	0.00	0.00	551.38
2.50	29450.38	64.57	0.00	0.00	0.00	470.67
3.75	29450.38	64.57	0.00	0.00	0.00	389.96
5.00	29450.38	64.57	0.00	0.00	0.00	309.25

31 W

0.00	-29317.52	64.57	0.00	0.00	0.00	632.10
1.25	-29317.52	64.57	0.00	0.00	0.00	551.39
2.50	-29317.52	64.57	0.00	0.00	0.00	470.67
3.75	-29317.52	64.57	0.00	0.00	0.00	389.96
5.00	-29317.52	64.57	0.00	0.00	0.00	309.25

32 W

0.00	28236.68	193.69	0.00	0.00	0.00	944.49
1.25	28236.68	193.69	0.00	0.00	0.00	702.37
2.50	28236.68	193.69	0.00	0.00	0.00	460.26
3.75	28236.68	193.69	0.00	0.00	0.00	218.14
5.00	28236.68	193.69	0.00	0.00	0.00	-23.97

33 W

0.00	-28103.80	193.72	0.00	0.00	0.00	944.50
1.25	-28103.80	193.72	0.00	0.00	0.00	702.35
2.50	-28103.80	193.72	0.00	0.00	0.00	460.19

3.75	-28103.80	193.72	0.00	0.00	0.00	218.04
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5.00	-28103.80	193.72	0.00	0.00	0.00	-24.11
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34 W

0.00	25809.17	323.04	0.00	0.00	0.00	1246.56
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1.25	25809.17	323.04	0.00	0.00	0.00	842.76
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2.50	25809.17	323.04	0.00	0.00	0.00	438.96
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3.75	25809.17	323.04	0.00	0.00	0.00	35.16
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5.00	25809.17	323.04	0.00	0.00	0.00	-368.64
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35 W

0.00	-25676.49	322.67	0.00	0.00	0.00	1246.35
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1.25	-25676.49	322.67	0.00	0.00	0.00	843.01
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2.50	-25676.49	322.67	0.00	0.00	0.00	439.67
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3.75	-25676.49	322.67	0.00	0.00	0.00	36.33
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5.00	-25676.49	322.67	0.00	0.00	0.00	-367.01
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36 W

0.00	22168.56	450.20	0.00	0.00	0.00	1536.68
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1.25	22168.56	450.20	0.00	0.00	0.00	973.93
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2.50	22168.56	450.20	0.00	0.00	0.00	411.18
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3.75	22168.56	450.20	0.00	0.00	0.00	-151.57
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5.00	22168.56	450.20	0.00	0.00	0.00	-714.33
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37 W

0.00	-22034.76	453.52	0.00	0.00	0.00	1539.05
1.25	-22034.76	453.52	0.00	0.00	0.00	972.15
2.50	-22034.76	453.52	0.00	0.00	0.00	405.26
3.75	-22034.76	453.52	0.00	0.00	0.00	-161.64
5.00	-22034.76	453.52	0.00	0.00	0.00	-728.53

38 W

0.00	17312.76	594.36	0.00	0.00	0.00	1830.18
1.25	17312.76	594.36	0.00	0.00	0.00	1087.23
2.50	17312.76	594.36	0.00	0.00	0.00	344.28
3.75	17312.76	594.36	0.00	0.00	0.00	-398.67
5.00	17312.76	594.36	0.00	0.00	0.00	-1141.62

39 W

0.00	-17182.32	571.16	0.00	0.00	0.00	1810.11
1.25	-17182.32	571.16	0.00	0.00	0.00	1096.17
2.50	-17182.32	571.16	0.00	0.00	0.00	382.22
3.75	-17182.32	571.16	0.00	0.00	0.00	-331.72
5.00	-17182.32	571.16	0.00	0.00	0.00	-1045.67

40 W

0.00	11223.65	630.56	0.00	0.00	0.00	2008.72
1.25	11223.65	630.56	0.00	0.00	0.00	1220.51
2.50	11223.65	630.56	0.00	0.00	0.00	432.31
3.75	11223.65	630.56	0.00	0.00	0.00	-355.89

5.00	11223.65	630.56	0.00	0.00	0.00	-1144.10
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41 W

0.00	-11115.80	747.07	0.00	0.00	0.00	2140.76
1.25	-11115.80	747.07	0.00	0.00	0.00	1206.92
2.50	-11115.80	747.07	0.00	0.00	0.00	273.07
3.75	-11115.80	747.07	0.00	0.00	0.00	-660.77
5.00	-11115.80	747.07	0.00	0.00	0.00	-1594.61

42 W

0.00	4324.91	1208.19	0.00	0.00	0.00	2838.38
1.25	4324.91	1208.19	0.00	0.00	0.00	1328.14
2.50	4324.91	1208.19	0.00	0.00	0.00	-182.10
3.75	4324.91	1208.19	0.00	0.00	0.00	-1692.35
5.00	4324.91	1208.19	0.00	0.00	0.00	-3202.59

43 W

0.00	-3693.41	1032.50	0.00	0.00	0.00	2251.33
1.25	-3693.41	1032.50	0.00	0.00	0.00	960.70
2.50	-3693.41	1032.50	0.00	0.00	0.00	-329.93
3.75	-3693.41	1032.50	0.00	0.00	0.00	-1620.56
5.00	-3693.41	1032.50	0.00	0.00	0.00	-2911.19

44 W

0.00	-7507.87	2.55	0.00	0.00	0.00	12.95
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5.15	-7507.87	2.55	0.00	0.00	0.00	-1.552E-01
10.30	-7507.87	2.55	0.00	0.00	0.00	-13.26

45 W

0.00	-6210.31	2.87	0.00	0.00	0.00	15.87
5.15	-6210.31	2.87	0.00	0.00	0.00	1.12
10.30	-6210.31	2.87	0.00	0.00	0.00	-13.64

46 W

0.00	-5102.90	2.16	0.00	0.00	0.00	12.07
5.15	-5102.90	2.16	0.00	0.00	0.00	9.765E-01
10.30	-5102.90	2.16	0.00	0.00	0.00	-10.12

47 W

0.00	-4003.79	1.70	0.00	0.00	0.00	9.91
5.15	-4003.79	1.70	0.00	0.00	0.00	1.15
10.30	-4003.79	1.70	0.00	0.00	0.00	-7.62

48 W

0.00	-2897.97	1.20	0.00	0.00	0.00	7.42
5.15	-2897.97	1.20	0.00	0.00	0.00	1.23
10.30	-2897.97	1.20	0.00	0.00	0.00	-4.97

49 W

0.00	-1793.65	7.117E-01	0.00	0.00	0.00	4.95
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5.15	-1793.65	7.117E-01	0.00	0.00	0.00	1.29
10.30	-1793.65	7.117E-01	0.00	0.00	0.00	-2.38

50 W

0.00	-689.09	2.188E-01	0.00	0.00	0.00	2.44
5.15	-689.09	2.188E-01	0.00	0.00	0.00	1.31
10.30	-689.09	2.188E-01	0.00	0.00	0.00	1.883E-01

51 W

0.00	415.44	-2.740E-01	0.00	0.00	0.00	-9.547E-02
5.15	415.44	-2.740E-01	0.00	0.00	0.00	1.31
10.30	415.44	-2.740E-01	0.00	0.00	0.00	2.73

52 W

0.00	1519.94	-7.667E-01	0.00	0.00	0.00	-2.66
5.15	1519.94	-7.667E-01	0.00	0.00	0.00	1.29
10.30	1519.94	-7.667E-01	0.00	0.00	0.00	5.23

53 W

0.00	2624.66	-1.26	0.00	0.00	0.00	-5.26
5.15	2624.66	-1.26	0.00	0.00	0.00	1.23
10.30	2624.66	-1.26	0.00	0.00	0.00	7.71

54 W

0.00	3728.20	-1.75	0.00	0.00	0.00	-7.86
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5.15	3728.20	-1.75	0.00	0.00	0.00	1.13
10.30	3728.20	-1.75	0.00	0.00	0.00	10.13

55 W

0.00	4834.11	-2.27	0.00	0.00	0.00	-10.64
5.15	4834.11	-2.27	0.00	0.00	0.00	1.05
10.30	4834.11	-2.27	0.00	0.00	0.00	12.75

56 W

0.00	5988.62	-2.65	0.00	0.00	0.00	-12.80
5.15	5988.62	-2.65	0.00	0.00	0.00	8.541E-01
10.30	5988.62	-2.65	0.00	0.00	0.00	14.51

57 W

0.00	6207.49	-2.57	0.00	0.00	0.00	-14.49
5.15	6207.49	-2.57	0.00	0.00	0.00	-1.28
10.30	6207.49	-2.57	0.00	0.00	0.00	11.94

58 W

0.00	6207.49	-2.57	0.00	0.00	0.00	-14.49
5.15	6207.49	-2.57	0.00	0.00	0.00	-1.28
10.30	6207.49	-2.57	0.00	0.00	0.00	11.94

59 W

0.00	5988.62	-2.65	0.00	0.00	0.00	-12.80
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5.15	5988.62	-2.65	0.00	0.00	0.00	8.541E-01
10.30	5988.62	-2.65	0.00	0.00	0.00	14.51

60 W

0.00	4834.11	-2.27	0.00	0.00	0.00	-10.64
5.15	4834.11	-2.27	0.00	0.00	0.00	1.05
10.30	4834.11	-2.27	0.00	0.00	0.00	12.75

61 W

0.00	3728.20	-1.75	0.00	0.00	0.00	-7.86
5.15	3728.20	-1.75	0.00	0.00	0.00	1.13
10.30	3728.20	-1.75	0.00	0.00	0.00	10.13

62 W

0.00	2624.66	-1.26	0.00	0.00	0.00	-5.26
5.15	2624.66	-1.26	0.00	0.00	0.00	1.23
10.30	2624.66	-1.26	0.00	0.00	0.00	7.71

63 W

0.00	1519.94	-7.667E-01	0.00	0.00	0.00	-2.66
5.15	1519.94	-7.667E-01	0.00	0.00	0.00	1.29
10.30	1519.94	-7.667E-01	0.00	0.00	0.00	5.23

64 W

0.00	415.44	-2.740E-01	0.00	0.00	0.00	-9.547E-02
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5.15	415.44	-2.740E-01	0.00	0.00	0.00	1.31
10.30	415.44	-2.740E-01	0.00	0.00	0.00	2.73

65 W

0.00	-689.09	2.188E-01	0.00	0.00	0.00	2.44
5.15	-689.09	2.188E-01	0.00	0.00	0.00	1.31
10.30	-689.09	2.188E-01	0.00	0.00	0.00	1.883E-01

66 W

0.00	-1793.65	7.117E-01	0.00	0.00	0.00	4.95
5.15	-1793.65	7.117E-01	0.00	0.00	0.00	1.29
10.30	-1793.65	7.117E-01	0.00	0.00	0.00	-2.38

67 W

0.00	-2897.97	1.20	0.00	0.00	0.00	7.42
5.15	-2897.97	1.20	0.00	0.00	0.00	1.23
10.30	-2897.97	1.20	0.00	0.00	0.00	-4.97

68 W

0.00	-4003.79	1.70	0.00	0.00	0.00	9.91
5.15	-4003.79	1.70	0.00	0.00	0.00	1.15
10.30	-4003.79	1.70	0.00	0.00	0.00	-7.62

69 W

0.00	-5102.90	2.16	0.00	0.00	0.00	12.07
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5.15	-5102.90	2.16	0.00	0.00	0.00	9.765E-01
10.30	-5102.90	2.16	0.00	0.00	0.00	-10.12

70 W

0.00	-6210.31	2.87	0.00	0.00	0.00	15.87
5.15	-6210.31	2.87	0.00	0.00	0.00	1.12
10.30	-6210.31	2.87	0.00	0.00	0.00	-13.64

71 W

0.00	-7507.87	2.55	0.00	0.00	0.00	12.95
5.15	-7507.87	2.55	0.00	0.00	0.00	-1.552E-01
10.30	-7507.87	2.55	0.00	0.00	0.00	-13.26

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UAJY

LOAD COMBINATION MULTIPLIERS

COMBO	TYPE	CASE	FACTOR	TYPE	TITLE
COMB2	ADD			COMB2	
	DL	1.2000	STATIC(DEAD)		
	LL	1.6000	STATIC(LIVE)		

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UAJY

JOINT REACTIONS

JOINT	LOAD	F1	F2	F3	M1	M2	M3
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1	DL	0.0000	0.0000	187914.7188	0.0000	0.0000
	0.0000					
1	LL	0.0000	0.0000	112903.0000	0.0000	0.0000
	0.0000					
1	COMB2	0.0000	0.0000	406142.4625	0.0000	0.0000
	0.0000					
15	DL	0.0000	0.0000	187914.7188	0.0000	0.0000
	0.0000					
15	LL	0.0000	0.0000	112903.0000	0.0000	0.0000
	0.0000					
15	COMB2	0.0000	0.0000	406142.4625	0.0000	0.0000
	0.0000					

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UAJY

FRAME ELEMENT FORCES

FRAME	LOAD	LOC	P	V2	V3	T	M2	M3
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1 DL

0.00	74052.72	-3371.14	0.00	0.00	0.00	-7112.00
1.25	74052.72	-3371.14	0.00	0.00	0.00	-2898.08
2.50	74052.72	-3371.14	0.00	0.00	0.00	1315.84
3.75	74052.72	-3371.14	0.00	0.00	0.00	5529.76
5.00	74052.72	-3371.14	0.00	0.00	0.00	9743.68

1 LL

0.00	44010.53	-2018.47	0.00	0.00	0.00	-4256.69
1.25	44010.53	-2018.47	0.00	0.00	0.00	-1733.60
2.50	44010.53	-2018.47	0.00	0.00	0.00	789.49
3.75	44010.53	-2018.47	0.00	0.00	0.00	3312.58
5.00	44010.53	-2018.47	0.00	0.00	0.00	5835.66

1 COMB2

0.00	159280.11	-7274.92	0.00	0.00	0.00	-15345.11
1.25	159280.11	-7274.92	0.00	0.00	0.00	-6251.46
2.50	159280.11	-7274.92	0.00	0.00	0.00	2842.19
3.75	159280.11	-7274.92	0.00	0.00	0.00	11935.83
5.00	159280.11	-7274.92	0.00	0.00	0.00	21029.48

2 DL

0.00	207797.39	-2902.59	0.00	0.00	0.00	-4065.93
1.25	207797.39	-2902.59	0.00	0.00	0.00	-437.69
2.50	207797.39	-2902.59	0.00	0.00	0.00	3190.54
3.75	207797.39	-2902.59	0.00	0.00	0.00	6818.78
5.00	207797.39	-2902.59	0.00	0.00	0.00	10447.01

2 LL

0.00	123496.13	-1720.89	0.00	0.00	0.00	-2397.57
1.25	123496.13	-1720.89	0.00	0.00	0.00	-246.46
2.50	123496.13	-1720.89	0.00	0.00	0.00	1904.64
3.75	123496.13	-1720.89	0.00	0.00	0.00	4055.75
5.00	123496.13	-1720.89	0.00	0.00	0.00	6206.86

2 COMB2

0.00	446950.67	-6236.52	0.00	0.00	0.00	-8715.23
1.25	446950.67	-6236.52	0.00	0.00	0.00	-919.57
2.50	446950.67	-6236.52	0.00	0.00	0.00	6876.08
3.75	446950.67	-6236.52	0.00	0.00	0.00	14671.73
5.00	446950.67	-6236.52	0.00	0.00	0.00	22467.39

3 DL

0.00	320455.00	-2468.16	0.00	0.00	0.00	-1677.61
1.25	320455.00	-2468.16	0.00	0.00	0.00	1407.59
2.50	320455.00	-2468.16	0.00	0.00	0.00	4492.78
3.75	320455.00	-2468.16	0.00	0.00	0.00	7577.98
5.00	320455.00	-2468.16	0.00	0.00	0.00	10663.17

3 LL

0.00	190448.89	-1467.27	0.00	0.00	0.00	-995.40
1.25	190448.89	-1467.27	0.00	0.00	0.00	838.69
2.50	190448.89	-1467.27	0.00	0.00	0.00	2672.78
3.75	190448.89	-1467.27	0.00	0.00	0.00	4506.87
5.00	190448.89	-1467.27	0.00	0.00	0.00	6340.97

3 COMB2

0.00	689264.23	-5309.43	0.00	0.00	0.00	-3605.78
1.25	689264.23	-5309.43	0.00	0.00	0.00	3031.01
2.50	689264.23	-5309.43	0.00	0.00	0.00	9667.79
3.75	689264.23	-5309.43	0.00	0.00	0.00	16304.57
5.00	689264.23	-5309.43	0.00	0.00	0.00	22941.35

4 DL

0.00	410440.84	-1897.81	0.00	0.00	0.00	945.71
1.25	410440.84	-1897.81	0.00	0.00	0.00	3317.98
2.50	410440.84	-1897.81	0.00	0.00	0.00	5690.24
3.75	410440.84	-1897.81	0.00	0.00	0.00	8062.50
5.00	410440.84	-1897.81	0.00	0.00	0.00	10434.76

4 LL

0.00	243927.59	-1127.83	0.00	0.00	0.00	565.47
1.25	243927.59	-1127.83	0.00	0.00	0.00	1975.26
2.50	243927.59	-1127.83	0.00	0.00	0.00	3385.04
3.75	243927.59	-1127.83	0.00	0.00	0.00	4794.83
5.00	243927.59	-1127.83	0.00	0.00	0.00	6204.61

4 COMB2

0.00	882813.16	-4081.90	0.00	0.00	0.00	2039.61
1.25	882813.16	-4081.90	0.00	0.00	0.00	7141.98
2.50	882813.16	-4081.90	0.00	0.00	0.00	12244.35
3.75	882813.16	-4081.90	0.00	0.00	0.00	17346.72
5.00	882813.16	-4081.90	0.00	0.00	0.00	22449.09

5 DL

0.00	477944.75	-1358.96	0.00	0.00	0.00	3158.51
1.25	477944.75	-1358.96	0.00	0.00	0.00	4857.21
2.50	477944.75	-1358.96	0.00	0.00	0.00	6555.91
3.75	477944.75	-1358.96	0.00	0.00	0.00	8254.62
5.00	477944.75	-1358.96	0.00	0.00	0.00	9953.32

5 LL

0.00	284045.22	-807.64	0.00	0.00	0.00	1880.37
1.25	284045.22	-807.64	0.00	0.00	0.00	2889.92
2.50	284045.22	-807.64	0.00	0.00	0.00	3899.46
3.75	284045.22	-807.64	0.00	0.00	0.00	4909.00
5.00	284045.22	-807.64	0.00	0.00	0.00	5918.55

5 COMB2

0.00	1028006.05	-2922.97	0.00	0.00	0.00	6798.80
1.25	1028006.05	-2922.97	0.00	0.00	0.00	10452.52
2.50	1028006.05	-2922.97	0.00	0.00	0.00	14106.23
3.75	1028006.05	-2922.97	0.00	0.00	0.00	17759.95
5.00	1028006.05	-2922.97	0.00	0.00	0.00	21413.66

6 DL

0.00	522946.16	-814.97	0.00	0.00	0.00	5100.29
1.25	522946.16	-814.97	0.00	0.00	0.00	6119.00
2.50	522946.16	-814.97	0.00	0.00	0.00	7137.72
3.75	522946.16	-814.97	0.00	0.00	0.00	8156.43
5.00	522946.16	-814.97	0.00	0.00	0.00	9175.15

6 LL

0.00	310789.59	-484.34	0.00	0.00	0.00	3034.38
1.25	310789.59	-484.34	0.00	0.00	0.00	3639.81
2.50	310789.59	-484.34	0.00	0.00	0.00	4245.23
3.75	310789.59	-484.34	0.00	0.00	0.00	4850.65
5.00	310789.59	-484.34	0.00	0.00	0.00	5456.08

6 COMB2

0.00	1124798.74	-1752.91	0.00	0.00	0.00	10975.36
1.25	1124798.74	-1752.91	0.00	0.00	0.00	13166.50
2.50	1124798.74	-1752.91	0.00	0.00	0.00	15357.63
3.75	1124798.74	-1752.91	0.00	0.00	0.00	17548.77
5.00	1124798.74	-1752.91	0.00	0.00	0.00	19739.90

7 DL

0.00	545446.94	-271.69	0.00	0.00	0.00	6748.90
1.25	545446.94	-271.69	0.00	0.00	0.00	7088.51
2.50	545446.94	-271.69	0.00	0.00	0.00	7428.12
3.75	545446.94	-271.69	0.00	0.00	0.00	7767.73
5.00	545446.94	-271.69	0.00	0.00	0.00	8107.35

7 LL

0.00	324161.81	-161.46	0.00	0.00	0.00	4014.16
1.25	324161.81	-161.46	0.00	0.00	0.00	4215.99
2.50	324161.81	-161.46	0.00	0.00	0.00	4417.82
3.75	324161.81	-161.46	0.00	0.00	0.00	4619.65
5.00	324161.81	-161.46	0.00	0.00	0.00	4821.48

7 COMB2

0.00	1173195.23	-584.37	0.00	0.00	0.00	14521.33
1.25	1173195.23	-584.37	0.00	0.00	0.00	15251.79
2.50	1173195.23	-584.37	0.00	0.00	0.00	15982.26
3.75	1173195.23	-584.37	0.00	0.00	0.00	16712.72
5.00	1173195.23	-584.37	0.00	0.00	0.00	17443.18

8 DL

0.00	545446.94	271.69	0.00	0.00	0.00	8107.35
1.25	545446.94	271.69	0.00	0.00	0.00	7767.73
2.50	545446.94	271.69	0.00	0.00	0.00	7428.12
3.75	545446.94	271.69	0.00	0.00	0.00	7088.51
5.00	545446.94	271.69	0.00	0.00	0.00	6748.90

8 LL

0.00	324161.81	161.46	0.00	0.00	0.00	4821.48
1.25	324161.81	161.46	0.00	0.00	0.00	4619.65
2.50	324161.81	161.46	0.00	0.00	0.00	4417.82
3.75	324161.81	161.46	0.00	0.00	0.00	4215.99
5.00	324161.81	161.46	0.00	0.00	0.00	4014.16

8 COMB2

0.00	1173195.23	584.37	0.00	0.00	0.00	17443.18
1.25	1173195.23	584.37	0.00	0.00	0.00	16712.72
2.50	1173195.23	584.37	0.00	0.00	0.00	15982.26
3.75	1173195.23	584.37	0.00	0.00	0.00	15251.79
5.00	1173195.23	584.37	0.00	0.00	0.00	14521.33

9 DL

0.00	522946.16	814.97	0.00	0.00	0.00	9175.15
1.25	522946.16	814.97	0.00	0.00	0.00	8156.43
2.50	522946.16	814.97	0.00	0.00	0.00	7137.72
3.75	522946.16	814.97	0.00	0.00	0.00	6119.00
5.00	522946.16	814.97	0.00	0.00	0.00	5100.29

9 LL

0.00	310789.59	484.34	0.00	0.00	0.00	5456.08
1.25	310789.59	484.34	0.00	0.00	0.00	4850.65
2.50	310789.59	484.34	0.00	0.00	0.00	4245.23
3.75	310789.59	484.34	0.00	0.00	0.00	3639.81
5.00	310789.59	484.34	0.00	0.00	0.00	3034.38

9 COMB2

0.00	1124798.74	1752.91	0.00	0.00	0.00	19739.90
1.25	1124798.74	1752.91	0.00	0.00	0.00	17548.77
2.50	1124798.74	1752.91	0.00	0.00	0.00	15357.63
3.75	1124798.74	1752.91	0.00	0.00	0.00	13166.50
5.00	1124798.74	1752.91	0.00	0.00	0.00	10975.36

10 DL

0.00	477944.75	1358.96	0.00	0.00	0.00	9953.32
1.25	477944.75	1358.96	0.00	0.00	0.00	8254.62
2.50	477944.75	1358.96	0.00	0.00	0.00	6555.91
3.75	477944.75	1358.96	0.00	0.00	0.00	4857.21

5.00	477944.75	1358.96	0.00	0.00	0.00	3158.51
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10 LL

0.00	284045.22	807.64	0.00	0.00	0.00	5918.55
1.25	284045.22	807.64	0.00	0.00	0.00	4909.00
2.50	284045.22	807.64	0.00	0.00	0.00	3899.46
3.75	284045.22	807.64	0.00	0.00	0.00	2889.92
5.00	284045.22	807.64	0.00	0.00	0.00	1880.37

10 COMB2

0.00	1028006.05	2922.97	0.00	0.00	0.00	21413.66
1.25	1028006.05	2922.97	0.00	0.00	0.00	17759.95
2.50	1028006.05	2922.97	0.00	0.00	0.00	14106.23
3.75	1028006.05	2922.97	0.00	0.00	0.00	10452.52
5.00	1028006.05	2922.97	0.00	0.00	0.00	6798.80

11 DL

0.00	410440.84	1897.81	0.00	0.00	0.00	10434.76
1.25	410440.84	1897.81	0.00	0.00	0.00	8062.50
2.50	410440.84	1897.81	0.00	0.00	0.00	5690.24
3.75	410440.84	1897.81	0.00	0.00	0.00	3317.98
5.00	410440.84	1897.81	0.00	0.00	0.00	945.71

11 LL

0.00	243927.59	1127.83	0.00	0.00	0.00	6204.61
1.25	243927.59	1127.83	0.00	0.00	0.00	4794.83
2.50	243927.59	1127.83	0.00	0.00	0.00	3385.04
3.75	243927.59	1127.83	0.00	0.00	0.00	1975.26

5.00	243927.59	1127.83	0.00	0.00	0.00	565.47
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11 COMB2

0.00	882813.16	4081.90	0.00	0.00	0.00	22449.09
1.25	882813.16	4081.90	0.00	0.00	0.00	17346.72
2.50	882813.16	4081.90	0.00	0.00	0.00	12244.35
3.75	882813.16	4081.90	0.00	0.00	0.00	7141.98
5.00	882813.16	4081.90	0.00	0.00	0.00	2039.61

12 DL

0.00	320455.00	2468.16	0.00	0.00	0.00	10663.17
1.25	320455.00	2468.16	0.00	0.00	0.00	7577.98
2.50	320455.00	2468.16	0.00	0.00	0.00	4492.78
3.75	320455.00	2468.16	0.00	0.00	0.00	1407.59
5.00	320455.00	2468.16	0.00	0.00	0.00	-1677.61

12 LL

0.00	190448.89	1467.27	0.00	0.00	0.00	6340.97
1.25	190448.89	1467.27	0.00	0.00	0.00	4506.87
2.50	190448.89	1467.27	0.00	0.00	0.00	2672.78
3.75	190448.89	1467.27	0.00	0.00	0.00	838.69
5.00	190448.89	1467.27	0.00	0.00	0.00	-995.40

12 COMB2

0.00	689264.23	5309.43	0.00	0.00	0.00	22941.35
1.25	689264.23	5309.43	0.00	0.00	0.00	16304.57
2.50	689264.23	5309.43	0.00	0.00	0.00	9667.79
3.75	689264.23	5309.43	0.00	0.00	0.00	3031.01

5.00	689264.23	5309.43	0.00	0.00	0.00	-3605.78
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13 DL

0.00	207797.39	2902.59	0.00	0.00	0.00	10447.01
1.25	207797.39	2902.59	0.00	0.00	0.00	6818.78
2.50	207797.39	2902.59	0.00	0.00	0.00	3190.54
3.75	207797.39	2902.59	0.00	0.00	0.00	-437.69
5.00	207797.39	2902.59	0.00	0.00	0.00	-4065.93

13 LL

0.00	123496.13	1720.89	0.00	0.00	0.00	6206.86
1.25	123496.13	1720.89	0.00	0.00	0.00	4055.75
2.50	123496.13	1720.89	0.00	0.00	0.00	1904.64
3.75	123496.13	1720.89	0.00	0.00	0.00	-246.46
5.00	123496.13	1720.89	0.00	0.00	0.00	-2397.57

13 COMB2

0.00	446950.67	6236.52	0.00	0.00	0.00	22467.39
1.25	446950.67	6236.52	0.00	0.00	0.00	14671.73
2.50	446950.67	6236.52	0.00	0.00	0.00	6876.08
3.75	446950.67	6236.52	0.00	0.00	0.00	-919.57
5.00	446950.67	6236.52	0.00	0.00	0.00	-8715.23

14 DL

0.00	74052.72	3371.14	0.00	0.00	0.00	9743.68
1.25	74052.72	3371.14	0.00	0.00	0.00	5529.76
2.50	74052.72	3371.14	0.00	0.00	0.00	1315.84

3.75	74052.72	3371.14	0.00	0.00	0.00	-2898.08
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5.00	74052.72	3371.14	0.00	0.00	0.00	-7112.00
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14 LL

0.00	44010.53	2018.47	0.00	0.00	0.00	5835.66
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1.25	44010.53	2018.47	0.00	0.00	0.00	3312.58
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2.50	44010.53	2018.47	0.00	0.00	0.00	789.49
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3.75	44010.53	2018.47	0.00	0.00	0.00	-1733.60
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5.00	44010.53	2018.47	0.00	0.00	0.00	-4256.69
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14 COMB2

0.00	159280.11	7274.92	0.00	0.00	0.00	21029.48
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1.25	159280.11	7274.92	0.00	0.00	0.00	11935.83
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2.50	159280.11	7274.92	0.00	0.00	0.00	2842.19
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3.75	159280.11	7274.92	0.00	0.00	0.00	-6251.46
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5.00	159280.11	7274.92	0.00	0.00	0.00	-15345.11
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15 DL

0.00	-145261.75	-4233.30	0.00	0.00	0.00	-9581.67
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1.25	-145261.75	-4233.30	0.00	0.00	0.00	-4290.05
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2.50	-145261.75	-4233.30	0.00	0.00	0.00	1001.57
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3.75	-145261.75	-4233.30	0.00	0.00	0.00	6293.20
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5.00	-145261.75	-4233.30	0.00	0.00	0.00	11584.82
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15 LL

0.00	-86830.05	-2516.48	0.00	0.00	0.00	-5692.70
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1.25	-86830.05	-2516.48	0.00	0.00	0.00	-2547.10
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2.50	-86830.05	-2516.48	0.00	0.00	0.00	598.49
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3.75	-86830.05	-2516.48	0.00	0.00	0.00	3744.09
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5.00	-86830.05	-2516.48	0.00	0.00	0.00	6889.68
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15 COMB2

0.00	-313242.19	-9106.32	0.00	0.00	0.00	-20606.32
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1.25	-313242.19	-9106.32	0.00	0.00	0.00	-9223.42
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2.50	-313242.19	-9106.32	0.00	0.00	0.00	2159.47
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3.75	-313242.19	-9106.32	0.00	0.00	0.00	13542.37
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5.00	-313242.19	-9106.32	0.00	0.00	0.00	24925.27
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16 DL

0.00	-268948.28	-2610.68	0.00	0.00	0.00	-2560.52
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1.25	-268948.28	-2610.68	0.00	0.00	0.00	702.83
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2.50	-268948.28	-2610.68	0.00	0.00	0.00	3966.18
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3.75	-268948.28	-2610.68	0.00	0.00	0.00	7229.54
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5.00	-268948.28	-2610.68	0.00	0.00	0.00	10492.88
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16 LL

0.00	-160342.38	-1551.91	0.00	0.00	0.00	-1519.94
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1.25	-160342.38	-1551.91	0.00	0.00	0.00	419.96
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2.50	-160342.38	-1551.91	0.00	0.00	0.00	2359.85
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3.75	-160342.38	-1551.91	0.00	0.00	0.00	4299.74
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5.00	-160342.38	-1551.91	0.00	0.00	0.00	6239.64
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16 COMB2

0.00	-579285.74	-5615.88	0.00	0.00	0.00	-5504.52
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1.25	-579285.74	-5615.88	0.00	0.00	0.00	1515.33
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2.50	-579285.74	-5615.88	0.00	0.00	0.00	8535.18
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3.75	-579285.74	-5615.88	0.00	0.00	0.00	15555.03
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5.00	-579285.74	-5615.88	0.00	0.00	0.00	22574.88
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17 DL

0.00	-370191.25	-2183.40	0.00	0.00	0.00	-330.36
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1.25	-370191.25	-2183.40	0.00	0.00	0.00	2398.89
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2.50	-370191.25	-2183.40	0.00	0.00	0.00	5128.14
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3.75	-370191.25	-2183.40	0.00	0.00	0.00	7857.38
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5.00	-370191.25	-2183.40	0.00	0.00	0.00	10586.63
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17 LL

0.00	-220510.50	-1297.49	0.00	0.00	0.00	-192.67
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1.25	-220510.50	-1297.49	0.00	0.00	0.00	1429.20
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2.50	-220510.50	-1297.49	0.00	0.00	0.00	3051.07
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3.75	-220510.50	-1297.49	0.00	0.00	0.00	4672.94
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5.00	-220510.50	-1297.49	0.00	0.00	0.00	6294.80
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17 COMB2

0.00	-797046.30	-4696.07	0.00	0.00	0.00	-704.70
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1.25	-797046.30	-4696.07	0.00	0.00	0.00	5165.39
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2.50	-797046.30	-4696.07	0.00	0.00	0.00	11035.47
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3.75	-797046.30	-4696.07	0.00	0.00	0.00	16905.56
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5.00	-797046.30	-4696.07	0.00	0.00	0.00	22775.64
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18 DL

0.00	-448947.22	-1629.36	0.00	0.00	0.00	2084.64
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1.25	-448947.22	-1629.36	0.00	0.00	0.00	4121.34
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2.50	-448947.22	-1629.36	0.00	0.00	0.00	6158.05
3.75	-448947.22	-1629.36	0.00	0.00	0.00	8194.76
5.00	-448947.22	-1629.36	0.00	0.00	0.00	10231.46

18 LL

0.00	-267315.31	-968.35	0.00	0.00	0.00	1242.12
1.25	-267315.31	-968.35	0.00	0.00	0.00	2452.55
2.50	-267315.31	-968.35	0.00	0.00	0.00	3662.99
3.75	-267315.31	-968.35	0.00	0.00	0.00	4873.43
5.00	-267315.31	-968.35	0.00	0.00	0.00	6083.86

18 COMB2

0.00	-966441.16	-3504.60	0.00	0.00	0.00	4488.95
1.25	-966441.16	-3504.60	0.00	0.00	0.00	8869.70
2.50	-966441.16	-3504.60	0.00	0.00	0.00	13250.44
3.75	-966441.16	-3504.60	0.00	0.00	0.00	17631.19
5.00	-966441.16	-3504.60	0.00	0.00	0.00	22011.94

19 DL

0.00	-505198.50	-1086.74	0.00	0.00	0.00	4166.57
1.25	-505198.50	-1086.74	0.00	0.00	0.00	5525.00
2.50	-505198.50	-1086.74	0.00	0.00	0.00	6883.43
3.75	-505198.50	-1086.74	0.00	0.00	0.00	8241.85
5.00	-505198.50	-1086.74	0.00	0.00	0.00	9600.28

19 LL

0.00	-300745.50	-645.85	0.00	0.00	0.00	2479.49
1.25	-300745.50	-645.85	0.00	0.00	0.00	3286.80

2.50	-300745.50	-645.85	0.00	0.00	0.00	4094.11
3.75	-300745.50	-645.85	0.00	0.00	0.00	4901.42
5.00	-300745.50	-645.85	0.00	0.00	0.00	5708.73

19 COMB2

0.00	-1087431.00	-2337.45	0.00	0.00	0.00	8967.06
1.25	-1087431.00	-2337.45	0.00	0.00	0.00	11888.87
2.50	-1087431.00	-2337.45	0.00	0.00	0.00	14810.68
3.75	-1087431.00	-2337.45	0.00	0.00	0.00	17732.49
5.00	-1087431.00	-2337.45	0.00	0.00	0.00	20654.30

20 DL

0.00	-538949.75	-543.37	0.00	0.00	0.00	5960.77
1.25	-538949.75	-543.37	0.00	0.00	0.00	6639.98
2.50	-538949.75	-543.37	0.00	0.00	0.00	7319.19
3.75	-538949.75	-543.37	0.00	0.00	0.00	7998.39
5.00	-538949.75	-543.37	0.00	0.00	0.00	8677.60

20 LL

0.00	-320803.88	-322.92	0.00	0.00	0.00	3545.77
1.25	-320803.88	-322.92	0.00	0.00	0.00	3949.42
2.50	-320803.88	-322.92	0.00	0.00	0.00	4353.08
3.75	-320803.88	-322.92	0.00	0.00	0.00	4756.73
5.00	-320803.88	-322.92	0.00	0.00	0.00	5160.38

20 COMB2

0.00	-1160025.90	-1168.72	0.00	0.00	0.00	12826.15
1.25	-1160025.90	-1168.72	0.00	0.00	0.00	14287.05

2.50	-1160025.90	-1168.72	0.00	0.00	0.00	15747.94
3.75	-1160025.90	-1168.72	0.00	0.00	0.00	17208.84
5.00	-1160025.90	-1168.72	0.00	0.00	0.00	18669.74

21 DL

0.00	-550200.06	0.00	0.00	0.00	0.00	7464.45
1.25	-550200.06	0.00	0.00	0.00	0.00	7464.45
2.50	-550200.06	0.00	0.00	0.00	0.00	7464.45
3.75	-550200.06	0.00	0.00	0.00	0.00	7464.45
5.00	-550200.06	0.00	0.00	0.00	0.00	7464.45

21 LL

0.00	-327489.97	0.00	0.00	0.00	0.00	4439.41
1.25	-327489.97	0.00	0.00	0.00	0.00	4439.41
2.50	-327489.97	0.00	0.00	0.00	0.00	4439.41
3.75	-327489.97	0.00	0.00	0.00	0.00	4439.41
5.00	-327489.97	0.00	0.00	0.00	0.00	4439.41

21 COMB2

0.00	-1184224.03	0.00	0.00	0.00	0.00	16060.39
1.25	-1184224.03	0.00	0.00	0.00	0.00	16060.39
2.50	-1184224.03	0.00	0.00	0.00	0.00	16060.39
3.75	-1184224.03	0.00	0.00	0.00	0.00	16060.39
5.00	-1184224.03	0.00	0.00	0.00	0.00	16060.39

22 DL

0.00	-538949.75	543.37	0.00	0.00	0.00	8677.60
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1.25	-538949.75	543.37	0.00	0.00	0.00	7998.39
2.50	-538949.75	543.37	0.00	0.00	0.00	7319.19
3.75	-538949.75	543.37	0.00	0.00	0.00	6639.98
5.00	-538949.75	543.37	0.00	0.00	0.00	5960.77

22 LL

0.00	-320803.88	322.92	0.00	0.00	0.00	5160.38
1.25	-320803.88	322.92	0.00	0.00	0.00	4756.73
2.50	-320803.88	322.92	0.00	0.00	0.00	4353.08
3.75	-320803.88	322.92	0.00	0.00	0.00	3949.42
5.00	-320803.88	322.92	0.00	0.00	0.00	3545.77

22 COMB2

0.00	-1160025.90	1168.72	0.00	0.00	0.00	18669.74
1.25	-1160025.90	1168.72	0.00	0.00	0.00	17208.84
2.50	-1160025.90	1168.72	0.00	0.00	0.00	15747.94
3.75	-1160025.90	1168.72	0.00	0.00	0.00	14287.05
5.00	-1160025.90	1168.72	0.00	0.00	0.00	12826.15

23 DL

0.00	-505198.50	1086.74	0.00	0.00	0.00	9600.28
1.25	-505198.50	1086.74	0.00	0.00	0.00	8241.85
2.50	-505198.50	1086.74	0.00	0.00	0.00	6883.43
3.75	-505198.50	1086.74	0.00	0.00	0.00	5525.00
5.00	-505198.50	1086.74	0.00	0.00	0.00	4166.57

23 LL

0.00	-300745.50	645.85	0.00	0.00	0.00	5708.73
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1.25	-300745.50	645.85	0.00	0.00	0.00	4901.42
2.50	-300745.50	645.85	0.00	0.00	0.00	4094.11
3.75	-300745.50	645.85	0.00	0.00	0.00	3286.80
5.00	-300745.50	645.85	0.00	0.00	0.00	2479.49

23 COMB2

0.00	-1087431.00	2337.45	0.00	0.00	0.00	20654.30
1.25	-1087431.00	2337.45	0.00	0.00	0.00	17732.49
2.50	-1087431.00	2337.45	0.00	0.00	0.00	14810.68
3.75	-1087431.00	2337.45	0.00	0.00	0.00	11888.87
5.00	-1087431.00	2337.45	0.00	0.00	0.00	8967.06

24 DL

0.00	-448947.22	1629.36	0.00	0.00	0.00	10231.46
1.25	-448947.22	1629.36	0.00	0.00	0.00	8194.76
2.50	-448947.22	1629.36	0.00	0.00	0.00	6158.05
3.75	-448947.22	1629.36	0.00	0.00	0.00	4121.34
5.00	-448947.22	1629.36	0.00	0.00	0.00	2084.64

24 LL

0.00	-267315.31	968.35	0.00	0.00	0.00	6083.86
1.25	-267315.31	968.35	0.00	0.00	0.00	4873.43
2.50	-267315.31	968.35	0.00	0.00	0.00	3662.99
3.75	-267315.31	968.35	0.00	0.00	0.00	2452.55
5.00	-267315.31	968.35	0.00	0.00	0.00	1242.12

24 COMB2

0.00	-966441.16	3504.60	0.00	0.00	0.00	22011.94
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1.25	-966441.16	3504.60	0.00	0.00	0.00	17631.19
2.50	-966441.16	3504.60	0.00	0.00	0.00	13250.44
3.75	-966441.16	3504.60	0.00	0.00	0.00	8869.70
5.00	-966441.16	3504.60	0.00	0.00	0.00	4488.95

25 DL

0.00	-370191.25	2183.40	0.00	0.00	0.00	10586.63
1.25	-370191.25	2183.40	0.00	0.00	0.00	7857.38
2.50	-370191.25	2183.40	0.00	0.00	0.00	5128.14
3.75	-370191.25	2183.40	0.00	0.00	0.00	2398.89
5.00	-370191.25	2183.40	0.00	0.00	0.00	-330.36

25 LL

0.00	-220510.50	1297.49	0.00	0.00	0.00	6294.80
1.25	-220510.50	1297.49	0.00	0.00	0.00	4672.94
2.50	-220510.50	1297.49	0.00	0.00	0.00	3051.07
3.75	-220510.50	1297.49	0.00	0.00	0.00	1429.20
5.00	-220510.50	1297.49	0.00	0.00	0.00	-192.67

25 COMB2

0.00	-797046.30	4696.07	0.00	0.00	0.00	22775.64
1.25	-797046.30	4696.07	0.00	0.00	0.00	16905.56
2.50	-797046.30	4696.07	0.00	0.00	0.00	11035.47
3.75	-797046.30	4696.07	0.00	0.00	0.00	5165.39
5.00	-797046.30	4696.07	0.00	0.00	0.00	-704.70

26 DL

0.00	-268948.28	2610.68	0.00	0.00	0.00	10492.88
1.25	-268948.28	2610.68	0.00	0.00	0.00	7229.54
2.50	-268948.28	2610.68	0.00	0.00	0.00	3966.18
3.75	-268948.28	2610.68	0.00	0.00	0.00	702.83
5.00	-268948.28	2610.68	0.00	0.00	0.00	-2560.52

26 LL

0.00	-160342.38	1551.91	0.00	0.00	0.00	6239.64
1.25	-160342.38	1551.91	0.00	0.00	0.00	4299.74
2.50	-160342.38	1551.91	0.00	0.00	0.00	2359.85
3.75	-160342.38	1551.91	0.00	0.00	0.00	419.96
5.00	-160342.38	1551.91	0.00	0.00	0.00	-1519.94

26 COMB2

0.00	-579285.74	5615.88	0.00	0.00	0.00	22574.88
1.25	-579285.74	5615.88	0.00	0.00	0.00	15555.03
2.50	-579285.74	5615.88	0.00	0.00	0.00	8535.18
3.75	-579285.74	5615.88	0.00	0.00	0.00	1515.33
5.00	-579285.74	5615.88	0.00	0.00	0.00	-5504.52

27 DL

0.00	-145261.75	4233.30	0.00	0.00	0.00	11584.82
1.25	-145261.75	4233.30	0.00	0.00	0.00	6293.20
2.50	-145261.75	4233.30	0.00	0.00	0.00	1001.57
3.75	-145261.75	4233.30	0.00	0.00	0.00	-4290.05
5.00	-145261.75	4233.30	0.00	0.00	0.00	-9581.67

27 LL

0.00	-86830.05	2516.48	0.00	0.00	0.00	6889.68
1.25	-86830.05	2516.48	0.00	0.00	0.00	3744.09
2.50	-86830.05	2516.48	0.00	0.00	0.00	598.49
3.75	-86830.05	2516.48	0.00	0.00	0.00	-2547.10
5.00	-86830.05	2516.48	0.00	0.00	0.00	-5692.70

27 COMB2

0.00	-313242.19	9106.32	0.00	0.00	0.00	24925.27
1.25	-313242.19	9106.32	0.00	0.00	0.00	13542.37
2.50	-313242.19	9106.32	0.00	0.00	0.00	2159.47
3.75	-313242.19	9106.32	0.00	0.00	0.00	-9223.42
5.00	-313242.19	9106.32	0.00	0.00	0.00	-20606.32

28 DL

0.00	-188206.72	1804.31	0.00	0.00	0.00	7112.00
3.25	-188206.72	1804.31	0.00	0.00	0.00	1247.98
6.50	-188206.72	1804.31	0.00	0.00	0.00	-4616.04

28 LL

0.00	-111837.92	1078.94	0.00	0.00	0.00	4256.69
3.25	-111837.92	1078.94	0.00	0.00	0.00	750.14
6.50	-111837.92	1078.94	0.00	0.00	0.00	-2756.42

28 COMB2

0.00	-404788.74	3891.48	0.00	0.00	0.00	15345.11
3.25	-404788.74	3891.48	0.00	0.00	0.00	2697.79
6.50	-404788.74	3891.48	0.00	0.00	0.00	-9949.52

29 DL

0.00	-157153.00	2266.51	0.00	0.00	0.00	8372.40
3.25	-157153.00	2266.51	0.00	0.00	0.00	1006.24
6.50	-157153.00	2266.51	0.00	0.00	0.00	-6359.93

29 LL

0.00	-92076.62	1356.32	0.00	0.00	0.00	5011.27
3.25	-92076.62	1356.32	0.00	0.00	0.00	603.22
6.50	-92076.62	1356.32	0.00	0.00	0.00	-3804.84

29 COMB2

0.00	-335906.19	4889.93	0.00	0.00	0.00	18064.91
3.25	-335906.19	4889.93	0.00	0.00	0.00	2172.63
6.50	-335906.19	4889.93	0.00	0.00	0.00	-13719.65

30 DL

0.00	-129758.13	1733.04	0.00	0.00	0.00	7235.27
3.25	-129758.13	1733.04	0.00	0.00	0.00	1602.89
6.50	-129758.13	1733.04	0.00	0.00	0.00	-4029.50

30 LL

0.00	-75789.87	1036.27	0.00	0.00	0.00	4321.27
3.25	-75789.87	1036.27	0.00	0.00	0.00	953.38
6.50	-75789.87	1036.27	0.00	0.00	0.00	-2414.52

30 COMB2

0.00	-276973.54	3737.69	0.00	0.00	0.00	15596.35
3.25	-276973.54	3737.69	0.00	0.00	0.00	3448.86
6.50	-276973.54	3737.69	0.00	0.00	0.00	-8698.63

31 DL

0.00	-101297.55	1396.40	0.00	0.00	0.00	6629.92
3.25	-101297.55	1396.40	0.00	0.00	0.00	2091.62
6.50	-101297.55	1396.40	0.00	0.00	0.00	-2446.68

31 LL

0.00	-58876.89	836.48	0.00	0.00	0.00	3962.92
3.25	-58876.89	836.48	0.00	0.00	0.00	1244.36
6.50	-58876.89	836.48	0.00	0.00	0.00	-1474.20

31 COMB2

0.00	-215760.08	3014.05	0.00	0.00	0.00	14296.58
3.25	-215760.08	3014.05	0.00	0.00	0.00	4500.93
6.50	-215760.08	3014.05	0.00	0.00	0.00	-5294.72

32 DL

0.00	-72926.85	1027.82	0.00	0.00	0.00	5791.90
3.25	-72926.85	1027.82	0.00	0.00	0.00	2451.48
6.50	-72926.85	1027.82	0.00	0.00	0.00	-888.95

32 LL

0.00	-42015.98	617.42	0.00	0.00	0.00	3464.78
3.25	-42015.98	617.42	0.00	0.00	0.00	1458.17
6.50	-42015.98	617.42	0.00	0.00	0.00	-548.44

32 COMB2

0.00	-154737.79	2221.26	0.00	0.00	0.00	12493.93
3.25	-154737.79	2221.26	0.00	0.00	0.00	5274.85

6.50	-154737.79	2221.26	0.00	0.00	0.00	-1944.24
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33 DL

0.00	-44551.19	663.61	0.00	0.00	0.00	4860.16
3.25	-44551.19	663.61	0.00	0.00	0.00	2703.41
6.50	-44551.19	663.61	0.00	0.00	0.00	546.66

33 LL

0.00	-25152.33	400.97	0.00	0.00	0.00	2911.05
3.25	-25152.33	400.97	0.00	0.00	0.00	1607.90
6.50	-25152.33	400.97	0.00	0.00	0.00	304.75

33 COMB2

0.00	-93705.15	1437.89	0.00	0.00	0.00	10489.86
3.25	-93705.15	1437.89	0.00	0.00	0.00	5816.73
6.50	-93705.15	1437.89	0.00	0.00	0.00	1143.60

34 DL

0.00	-16175.35	298.88	0.00	0.00	0.00	3814.36
3.25	-16175.35	298.88	0.00	0.00	0.00	2843.00
6.50	-16175.35	298.88	0.00	0.00	0.00	1871.63

34 LL

0.00	-8288.54	184.21	0.00	0.00	0.00	2289.53
3.25	-8288.54	184.21	0.00	0.00	0.00	1690.86
6.50	-8288.54	184.21	0.00	0.00	0.00	1092.19

34 COMB2

0.00	-32672.08	653.39	0.00	0.00	0.00	8240.48
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3.25	-32672.08	653.39	0.00	0.00	0.00	6116.97
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6.50	-32672.08	653.39	0.00	0.00	0.00	3993.46
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35 DL

0.00	12200.37	-65.80	0.00	0.00	0.00	2657.10
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3.25	12200.37	-65.80	0.00	0.00	0.00	2870.94
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6.50	12200.37	-65.80	0.00	0.00	0.00	3084.79
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35 LL

0.00	8575.17	-32.52	0.00	0.00	0.00	1601.76
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3.25	8575.17	-32.52	0.00	0.00	0.00	1707.46
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6.50	8575.17	-32.52	0.00	0.00	0.00	1813.16
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35 COMB2

0.00	28360.72	-130.99	0.00	0.00	0.00	5751.34
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3.25	28360.72	-130.99	0.00	0.00	0.00	6177.07
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6.50	28360.72	-130.99	0.00	0.00	0.00	6602.81
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36 DL

0.00	40576.18	-430.47	0.00	0.00	0.00	1388.12
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3.25	40576.18	-430.47	0.00	0.00	0.00	2787.14
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6.50	40576.18	-430.47	0.00	0.00	0.00	4186.17
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36 LL

0.00	25438.94	-249.25	0.00	0.00	0.00	847.61
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3.25	25438.94	-249.25	0.00	0.00	0.00	1657.66
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6.50	25438.94	-249.25	0.00	0.00	0.00	2467.72
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36 COMB2

0.00	89393.73	-915.36	0.00	0.00	0.00	3021.92
3.25	89393.73	-915.36	0.00	0.00	0.00	5996.83
6.50	89393.73	-915.36	0.00	0.00	0.00	8971.75

37 DL

0.00	68951.26	-795.20	0.00	0.00	0.00	7.13
3.25	68951.26	-795.20	0.00	0.00	0.00	2591.53
6.50	68951.26	-795.20	0.00	0.00	0.00	5175.94

37 LL

0.00	42302.27	-466.01	0.00	0.00	0.00	26.88
3.25	42302.27	-466.01	0.00	0.00	0.00	1541.41
6.50	42302.27	-466.01	0.00	0.00	0.00	3055.94

37 COMB2

0.00	150425.14	-1699.86	0.00	0.00	0.00	51.56
3.25	150425.14	-1699.86	0.00	0.00	0.00	5576.10
6.50	150425.14	-1699.86	0.00	0.00	0.00	11100.64

38 DL

0.00	97332.71	-1159.95	0.00	0.00	0.00	-1484.35
3.25	97332.71	-1159.95	0.00	0.00	0.00	2285.48
6.50	97332.71	-1159.95	0.00	0.00	0.00	6055.32

38 LL

0.00	59169.42	-682.76	0.00	0.00	0.00	-859.46
3.25	59169.42	-682.76	0.00	0.00	0.00	1359.51
6.50	59169.42	-682.76	0.00	0.00	0.00	3578.49

38 COMB2

0.00	211470.32	-2484.36	0.00	0.00	0.00	-3156.36
3.25	211470.32	-2484.36	0.00	0.00	0.00	4917.80
6.50	211470.32	-2484.36	0.00	0.00	0.00	12991.97

39 DL

0.00	125665.81	-1520.20	0.00	0.00	0.00	-3087.54
3.25	125665.81	-1520.20	0.00	0.00	0.00	1853.10
6.50	125665.81	-1520.20	0.00	0.00	0.00	6793.74

39 LL

0.00	76007.45	-896.98	0.00	0.00	0.00	-1812.57
3.25	76007.45	-896.98	0.00	0.00	0.00	1102.61
6.50	76007.45	-896.98	0.00	0.00	0.00	4017.79

39 COMB2

0.00	272410.89	-3259.40	0.00	0.00	0.00	-6605.16
3.25	272410.89	-3259.40	0.00	0.00	0.00	3987.90
6.50	272410.89	-3259.40	0.00	0.00	0.00	14580.96

40 DL

0.00	154312.44	-1949.96	0.00	0.00	0.00	-4889.35
3.25	154312.44	-1949.96	0.00	0.00	0.00	1448.03
6.50	154312.44	-1949.96	0.00	0.00	0.00	7785.40

40 LL

0.00	93036.28	-1151.66	0.00	0.00	0.00	-2880.99
3.25	93036.28	-1151.66	0.00	0.00	0.00	861.89

6.50	93036.28	-1151.66	0.00	0.00	0.00	4604.78
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40 COMB2

0.00	334032.98	-4182.61	0.00	0.00	0.00	-10476.81
3.25	334032.98	-4182.61	0.00	0.00	0.00	3116.66
6.50	334032.98	-4182.61	0.00	0.00	0.00	16710.13

41 DL

0.00	181302.44	-1600.44	0.00	0.00	0.00	-5437.21
3.25	181302.44	-1600.44	0.00	0.00	0.00	-235.79
6.50	181302.44	-1600.44	0.00	0.00	0.00	4965.62

41 LL

0.00	109056.95	-947.42	0.00	0.00	0.00	-3221.96
3.25	109056.95	-947.42	0.00	0.00	0.00	-142.84
6.50	109056.95	-947.42	0.00	0.00	0.00	2936.28

41 COMB2

0.00	392054.04	-3436.40	0.00	0.00	0.00	-11679.80
3.25	392054.04	-3436.40	0.00	0.00	0.00	-511.50
6.50	392054.04	-3436.40	0.00	0.00	0.00	10656.80

42 DL

0.00	181302.44	-1600.44	0.00	0.00	0.00	-5437.21
3.25	181302.44	-1600.44	0.00	0.00	0.00	-235.79
6.50	181302.44	-1600.44	0.00	0.00	0.00	4965.62

42 LL

0.00	109056.95	-947.42	0.00	0.00	0.00	-3221.96
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3.25	109056.95	-947.42	0.00	0.00	0.00	-142.84
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6.50	109056.95	-947.42	0.00	0.00	0.00	2936.28
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42 COMB2

0.00	392054.04	-3436.40	0.00	0.00	0.00	-11679.80
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3.25	392054.04	-3436.40	0.00	0.00	0.00	-511.50
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6.50	392054.04	-3436.40	0.00	0.00	0.00	10656.80
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43 DL

0.00	154312.44	-1949.96	0.00	0.00	0.00	-4889.35
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3.25	154312.44	-1949.96	0.00	0.00	0.00	1448.03
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6.50	154312.44	-1949.96	0.00	0.00	0.00	7785.40
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43 LL

0.00	93036.28	-1151.66	0.00	0.00	0.00	-2880.99
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3.25	93036.28	-1151.66	0.00	0.00	0.00	861.89
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6.50	93036.28	-1151.66	0.00	0.00	0.00	4604.78
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43 COMB2

0.00	334032.98	-4182.61	0.00	0.00	0.00	-10476.81
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3.25	334032.98	-4182.61	0.00	0.00	0.00	3116.66
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6.50	334032.98	-4182.61	0.00	0.00	0.00	16710.13
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44 DL

0.00	125665.81	-1520.20	0.00	0.00	0.00	-3087.54
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3.25	125665.81	-1520.20	0.00	0.00	0.00	1853.10
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6.50	125665.81	-1520.20	0.00	0.00	0.00	6793.74
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44 LL

0.00	76007.45	-896.98	0.00	0.00	0.00	-1812.57
3.25	76007.45	-896.98	0.00	0.00	0.00	1102.61
6.50	76007.45	-896.98	0.00	0.00	0.00	4017.79

44 COMB2

0.00	272410.89	-3259.40	0.00	0.00	0.00	-6605.16
3.25	272410.89	-3259.40	0.00	0.00	0.00	3987.90
6.50	272410.89	-3259.40	0.00	0.00	0.00	14580.96

45 DL

0.00	97332.71	-1159.95	0.00	0.00	0.00	-1484.35
3.25	97332.71	-1159.95	0.00	0.00	0.00	2285.48
6.50	97332.71	-1159.95	0.00	0.00	0.00	6055.32

45 LL

0.00	59169.42	-682.76	0.00	0.00	0.00	-859.46
3.25	59169.42	-682.76	0.00	0.00	0.00	1359.51
6.50	59169.42	-682.76	0.00	0.00	0.00	3578.49

45 COMB2

0.00	211470.32	-2484.36	0.00	0.00	0.00	-3156.36
3.25	211470.32	-2484.36	0.00	0.00	0.00	4917.80
6.50	211470.32	-2484.36	0.00	0.00	0.00	12991.97

46 DL

0.00	68951.26	-795.20	0.00	0.00	0.00	7.13
3.25	68951.26	-795.20	0.00	0.00	0.00	2591.53
6.50	68951.26	-795.20	0.00	0.00	0.00	5175.94

46 LL

0.00	42302.27	-466.01	0.00	0.00	0.00	26.88
3.25	42302.27	-466.01	0.00	0.00	0.00	1541.41
6.50	42302.27	-466.01	0.00	0.00	0.00	3055.94

46 COMB2

0.00	150425.14	-1699.86	0.00	0.00	0.00	51.56
3.25	150425.14	-1699.86	0.00	0.00	0.00	5576.10
6.50	150425.14	-1699.86	0.00	0.00	0.00	11100.64

47 DL

0.00	40576.18	-430.47	0.00	0.00	0.00	1388.12
3.25	40576.18	-430.47	0.00	0.00	0.00	2787.14
6.50	40576.18	-430.47	0.00	0.00	0.00	4186.17

47 LL

0.00	25438.94	-249.25	0.00	0.00	0.00	847.61
3.25	25438.94	-249.25	0.00	0.00	0.00	1657.66
6.50	25438.94	-249.25	0.00	0.00	0.00	2467.72

47 COMB2

0.00	89393.73	-915.36	0.00	0.00	0.00	3021.92
3.25	89393.73	-915.36	0.00	0.00	0.00	5996.83
6.50	89393.73	-915.36	0.00	0.00	0.00	8971.75

48 DL

0.00	12200.37	-65.80	0.00	0.00	0.00	2657.10
3.25	12200.37	-65.80	0.00	0.00	0.00	2870.94

6.50	12200.37	-65.80	0.00	0.00	0.00	3084.79
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48 LL

0.00	8575.17	-32.52	0.00	0.00	0.00	1601.76
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3.25	8575.17	-32.52	0.00	0.00	0.00	1707.46
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6.50	8575.17	-32.52	0.00	0.00	0.00	1813.16
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48 COMB2

0.00	28360.72	-130.99	0.00	0.00	0.00	5751.34
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3.25	28360.72	-130.99	0.00	0.00	0.00	6177.07
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6.50	28360.72	-130.99	0.00	0.00	0.00	6602.81
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49 DL

0.00	-16175.35	298.88	0.00	0.00	0.00	3814.36
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3.25	-16175.35	298.88	0.00	0.00	0.00	2843.00
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6.50	-16175.35	298.88	0.00	0.00	0.00	1871.63
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49 LL

0.00	-8288.54	184.21	0.00	0.00	0.00	2289.53
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3.25	-8288.54	184.21	0.00	0.00	0.00	1690.86
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6.50	-8288.54	184.21	0.00	0.00	0.00	1092.19
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49 COMB2

0.00	-32672.08	653.39	0.00	0.00	0.00	8240.48
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3.25	-32672.08	653.39	0.00	0.00	0.00	6116.97
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6.50	-32672.08	653.39	0.00	0.00	0.00	3993.46
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50 DL

0.00	-44551.19	663.61	0.00	0.00	0.00	4860.16
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3.25	-44551.19	663.61	0.00	0.00	0.00	2703.41
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6.50	-44551.19	663.61	0.00	0.00	0.00	546.66
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50 LL

0.00	-25152.33	400.97	0.00	0.00	0.00	2911.05
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3.25	-25152.33	400.97	0.00	0.00	0.00	1607.90
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6.50	-25152.33	400.97	0.00	0.00	0.00	304.75
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50 COMB2

0.00	-93705.15	1437.89	0.00	0.00	0.00	10489.86
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3.25	-93705.15	1437.89	0.00	0.00	0.00	5816.73
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6.50	-93705.15	1437.89	0.00	0.00	0.00	1143.60
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51 DL

0.00	-72926.85	1027.82	0.00	0.00	0.00	5791.90
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3.25	-72926.85	1027.82	0.00	0.00	0.00	2451.48
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6.50	-72926.85	1027.82	0.00	0.00	0.00	-888.95
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51 LL

0.00	-42015.98	617.42	0.00	0.00	0.00	3464.78
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3.25	-42015.98	617.42	0.00	0.00	0.00	1458.17
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6.50	-42015.98	617.42	0.00	0.00	0.00	-548.44
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51 COMB2

0.00	-154737.79	2221.26	0.00	0.00	0.00	12493.93
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3.25	-154737.79	2221.26	0.00	0.00	0.00	5274.85
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6.50	-154737.79	2221.26	0.00	0.00	0.00	-1944.24
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52 DL

0.00	-101297.55	1396.40	0.00	0.00	0.00	6629.92
3.25	-101297.55	1396.40	0.00	0.00	0.00	2091.62
6.50	-101297.55	1396.40	0.00	0.00	0.00	-2446.68

52 LL

0.00	-58876.89	836.48	0.00	0.00	0.00	3962.92
3.25	-58876.89	836.48	0.00	0.00	0.00	1244.36
6.50	-58876.89	836.48	0.00	0.00	0.00	-1474.20

52 COMB2

0.00	-215760.08	3014.05	0.00	0.00	0.00	14296.58
3.25	-215760.08	3014.05	0.00	0.00	0.00	4500.93
6.50	-215760.08	3014.05	0.00	0.00	0.00	-5294.72

53 DL

0.00	-129758.13	1733.04	0.00	0.00	0.00	7235.27
3.25	-129758.13	1733.04	0.00	0.00	0.00	1602.89
6.50	-129758.13	1733.04	0.00	0.00	0.00	-4029.50

53 LL

0.00	-75789.87	1036.27	0.00	0.00	0.00	4321.27
3.25	-75789.87	1036.27	0.00	0.00	0.00	953.38
6.50	-75789.87	1036.27	0.00	0.00	0.00	-2414.52

53 COMB2

0.00	-276973.54	3737.69	0.00	0.00	0.00	15596.35
3.25	-276973.54	3737.69	0.00	0.00	0.00	3448.86
6.50	-276973.54	3737.69	0.00	0.00	0.00	-8698.63

54 DL

0.00	-157153.00	2266.51	0.00	0.00	0.00	8372.40
3.25	-157153.00	2266.51	0.00	0.00	0.00	1006.24
6.50	-157153.00	2266.51	0.00	0.00	0.00	-6359.93

54 LL

0.00	-92076.62	1356.32	0.00	0.00	0.00	5011.27
3.25	-92076.62	1356.32	0.00	0.00	0.00	603.22
6.50	-92076.62	1356.32	0.00	0.00	0.00	-3804.84

54 COMB2

0.00	-335906.19	4889.93	0.00	0.00	0.00	18064.91
3.25	-335906.19	4889.93	0.00	0.00	0.00	2172.63
6.50	-335906.19	4889.93	0.00	0.00	0.00	-13719.65

55 DL

0.00	-188206.72	1804.31	0.00	0.00	0.00	7112.00
3.25	-188206.72	1804.31	0.00	0.00	0.00	1247.98
6.50	-188206.72	1804.31	0.00	0.00	0.00	-4616.04

55 LL

0.00	-111837.92	1078.94	0.00	0.00	0.00	4256.69
3.25	-111837.92	1078.94	0.00	0.00	0.00	750.14
6.50	-111837.92	1078.94	0.00	0.00	0.00	-2756.42

55 COMB2

0.00	-404788.74	3891.48	0.00	0.00	0.00	15345.11
3.25	-404788.74	3891.48	0.00	0.00	0.00	2697.79
6.50	-404788.74	3891.48	0.00	0.00	0.00	-9949.52



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YOGYAKARTA

JEMBATAN RANGKA BAJA
350 METER

LAMPIRAN GAMBAR
JEMBATAN RANGKA BAJA

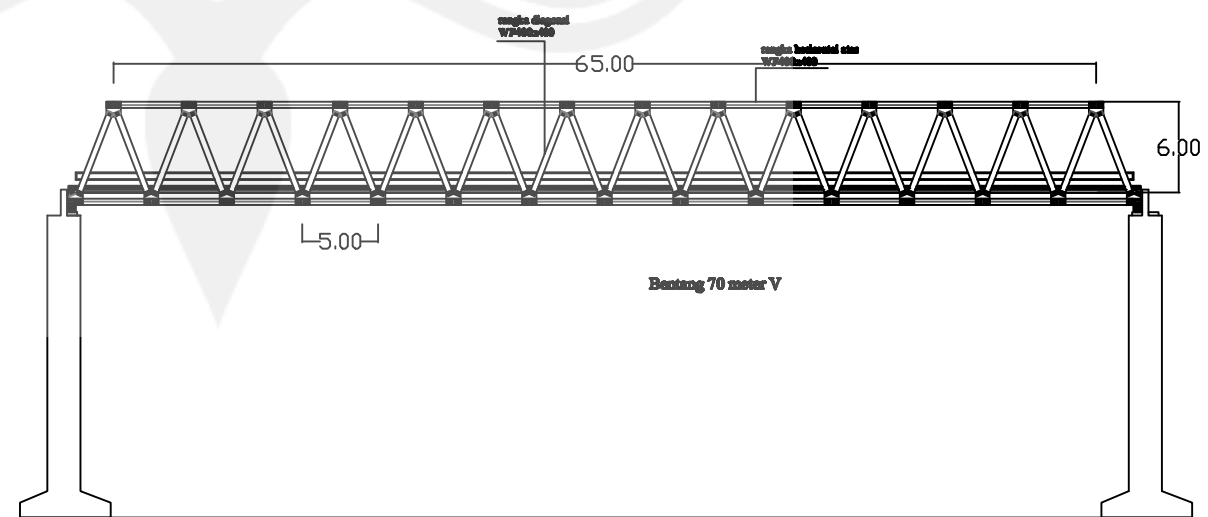
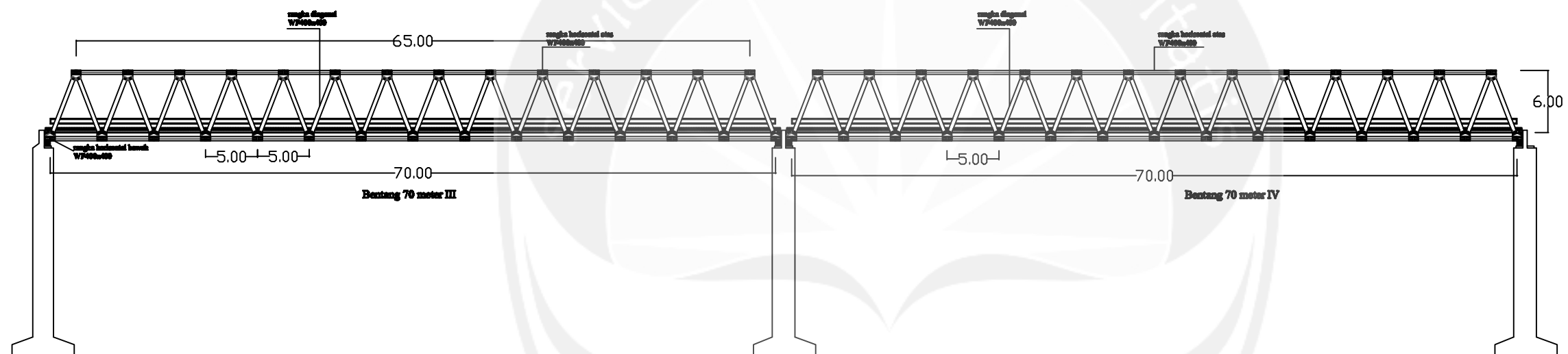
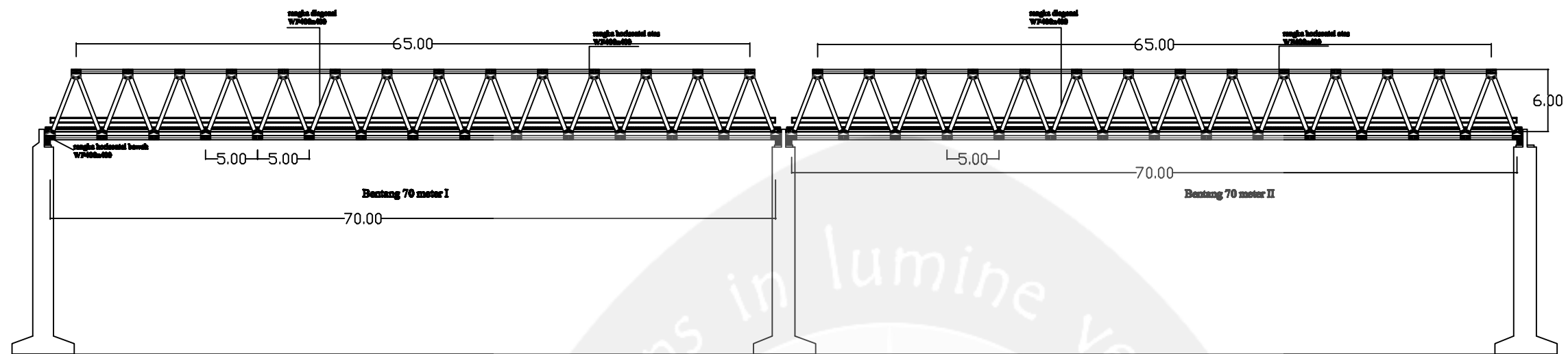
DIGAMBAR OLEH :
ARINI HAPPY KURNIAWAN
NO MHS : 08021709

DIBAHKAN OLEH:

F. X. PRANOTO DIRSAN
PUTRA, S.T., M.Eng

SKALA
1:500

SHIBET
1





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YOGYAKARTA

TAMPAK ATAS DAN
TAMPAK BAWAH
JEMBATAN RANGKA BAJA
300 METER

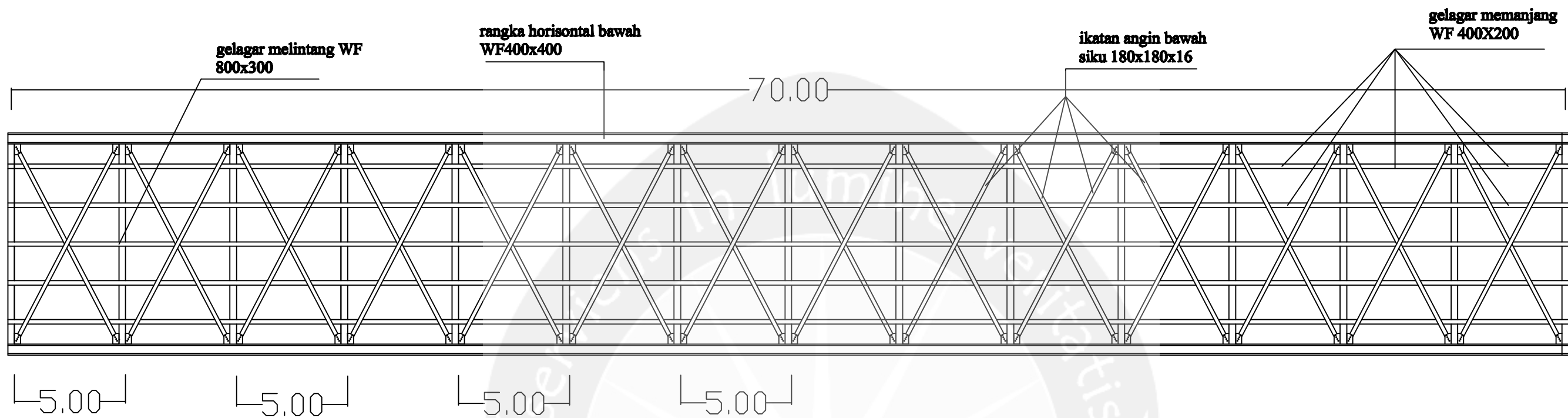
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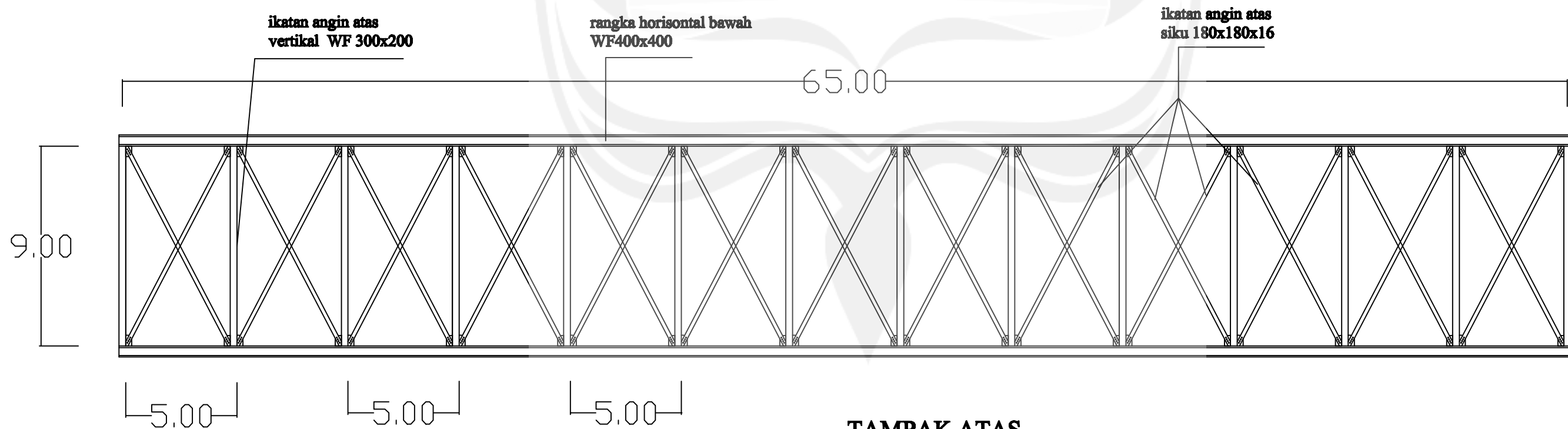
DIBAHKAN OLEH :

F. X. PRANOTO DIRSAN
PUTRA, ST., M.Eng

SKALA
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SHEET
3



TAMPAK BAWAH



TAMPAK ATAS



FAKULTAS TEKNIK
UNIVERSITAS ATMA JAYA
YOGYAKARTA

TAMPAK DEPAN
JEMBATAN RANGKA BAJA
70 METER

LAMPIRAN GAMBAR
JEMBATAN RANGKA BAJA

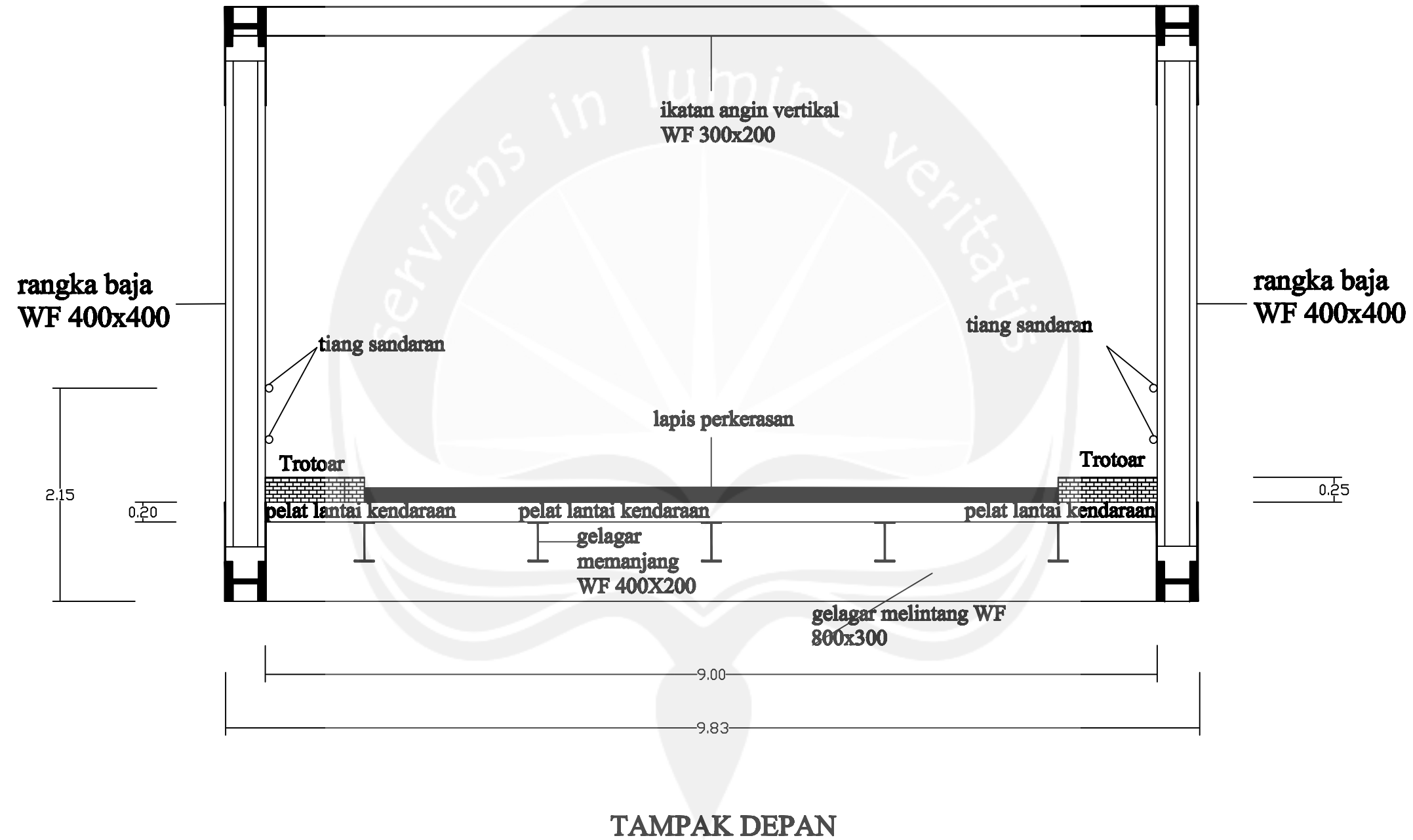
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ARINI HAPPY KURNIAWAN
NO MHS : 08021708

DIBAHKAN OLEH :

P. X. PRANOTO DIBHAK
PUTRA, S.T., M.Eng

SKALA
1:50

SHIBET
4





FAKULTAS TEKNIK
UNIVERSITAS ATMA JAYA
YOGYAKARTA

TAMPAK SAMPING
JEMBATAN RANGKA BAJA
200 METER

LAMPIRAN GAMBAR
JEMBATAN RANGKA BAJA

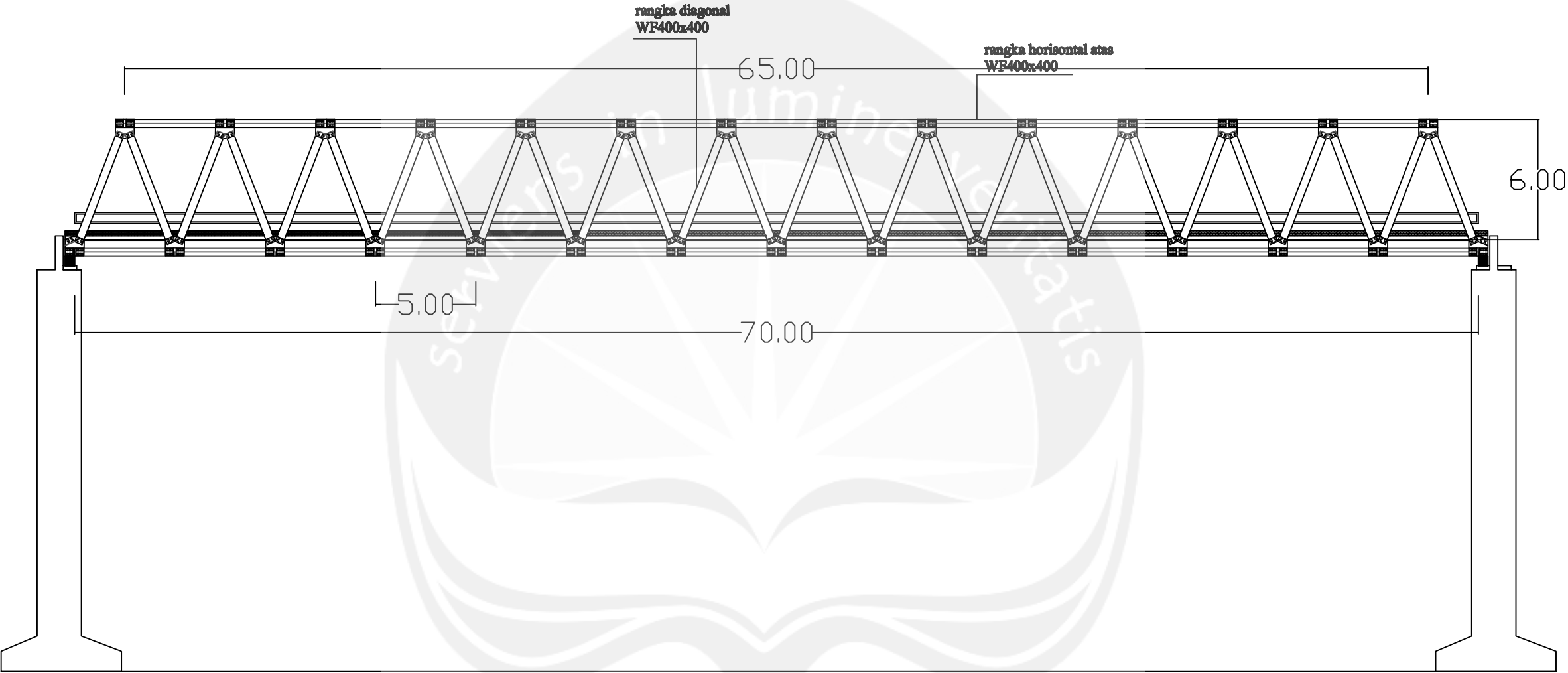
DIGAMBAR OLEH :
ABRI HAPPI KURNIAWAN
NO MHS : 09021709

DIBAHKAN OLEH:

P. X. PRANOTO DIRSAN
PUTRA, S.T., M.Eng

SKALA
1:250

REVISI
2



TAMPAK SAMPING