BAB VI

KESIMPULAN DAN SARAN

VI.1. Kesimpulan

Tugas akhir ini berjudul "PERANCANGAN STRUKTUR GEDUNG *PUBLIK WING* RS. CIPTO MANGUNKUSUMO JAKRTA" dirancang dengan sesuai ketentuan Tata Cara Perhitungan Struktur Beton Untuk Gedung SNI 03-2847-2002, Tata Cara Perencanaan Ketahanan Gempa Untuk Bangunan Gedung SNI 03-1726-2002 serta Peraturan Pembebanan Indonesia Untuk Gedung 1983 dengan hasil :

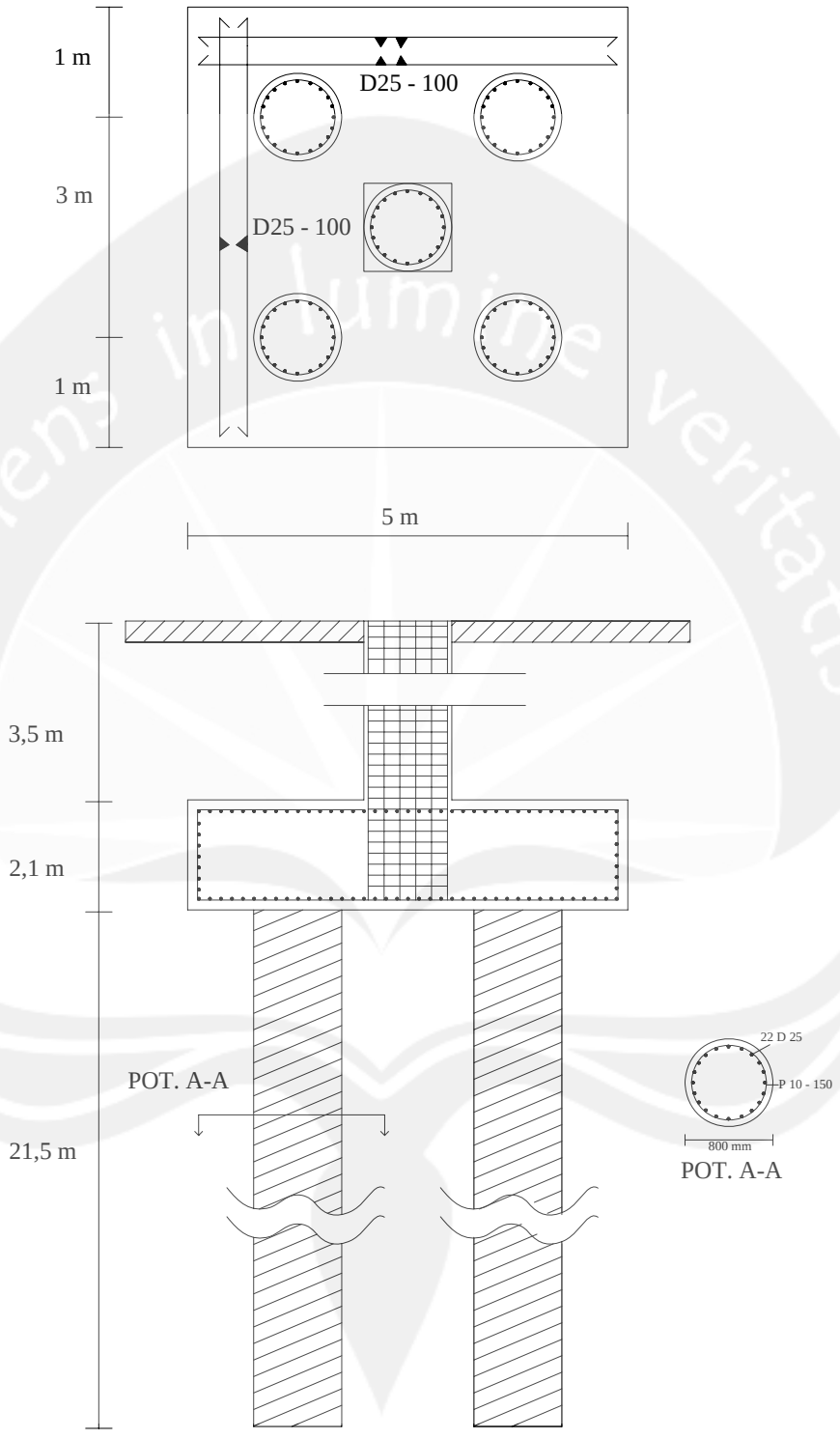
1. Pelat yang dihitung pelat dua arah yang mempunyai tebal 140 mm terdapat pada pelat lantai maupun pelat atap. Pelat dua arah tipe 2 (lantai) menggunakan tulangan pokok P10-125 untuk arah X dan P10-200 untuk arah Y sedangankan tulangan susut digunakan P10-275 untuk arah X dan Y,
2. Balok menggunakan perhitungan balok tulangan rangkap. Dimensi balok yang ditampilkan dalam hitungan adalah balok 300/650 untuk penulangan tumpuan menggunakan tulangan pokok atas 7D22 dan tulangan pokok bawah 4D22 serta penulangan pada daerah lapangan menggunakan tulangan pokok atas 4D22 dan tulangan pokok bawah 7D22, sedangkan untuk tulangan geser pada sendi plastis menggunakan tulangan 3P10-100 dan di luar sendi plastis menggunakan 2P10-120.

3. Kolom memiliki 5 tipe ukuran dan kolom yang dihitung pada kolom C91 Dimensi 800/800 memerlukan tulangan longitudinal sebesar 20D35 (3,007%). Dimensi 700/700 memerlukan tulangan longitudinal sebesar 16D35 (3,142%). Dimensi 600/600 memerlukan tulangan longitudinal sebesar 16D28 (2,737%), Dimensi 550/550 memerlukan tulangan longitudinal sebesar 16D25 (2,596%). Dimensi 450/450 memerlukan tulangan longitudinal sebesar 12D25 (2,969%).
4. Fondasi mengunakan fondasi *Boer pile* dengan kedalaman -28 m.

VI.2. Saran

Saran – saran yang dapat diberikan oleh penulis berdasarkan hasil Tugas Akhir yang telah disusun:

1. Sebelum perencanaan struktur sebaiknya dilakukan estimasi awal pada ukuran elemen struktur, sehingga tidak terjadi penentuan elemen struktur berulang-ulang.
2. Dalam perancangan elemen – elemen struktur seperti penentuan tulangan pelat, balok, dan kolom sebaiknya digunakan nilai yang diperlukan, dimana nilai tersebut lebih besar dari nilai rencana karena faktor di lapangan.
3. Pada proyek ini dianjurkan mengunakan fondasi *Boer Pile* karena letaknya yang berada di daerah padat dan Rumah Sakit.
4. Perhituangan Fondasi hendaknya juga ditinjau terhadap katahan terhadap gaya Lateral yang terjadi.



Gambar Penulangan Fondasi

C O L U M N F O R C E S

STORY	COLUMN	LOAD	LOC	P	V2	V3	T	M2	M3
LANTAI 2	C91	COMB1							
			0.0000	-6483.51	5.41	-1.68	-0.103	-3.456	11.186
			1.9250	-6442.12	5.41	-1.68	-0.103	-0.220	0.778
			3.8500	-6400.72	5.41	-1.68	-0.103	3.017	-9.629
LANTAI 2	C91	COMB2							
			0.0000	-7446.34	6.30	-1.30	-0.115	-2.283	13.215
			1.9250	-7410.86	6.30	-1.30	-0.115	0.226	1.083
			3.8500	-7375.37	6.30	-1.30	-0.115	2.735	-11.048
LANTAI 2	C91	COMB3							
			0.0000	-6680.17	128.16	13.98	-0.123	48.031	421.432
			1.9250	-6644.69	128.16	13.98	-0.123	21.110	174.731
			3.8500	-6609.21	128.16	13.98	-0.123	-5.810	-71.970
LANTAI 2	C91	COMB4							
			0.0000	-6749.59	124.49	-6.70	-1.378	-26.391	413.745
			1.9250	-6714.11	124.49	-6.70	-1.378	-13.493	174.093
			3.8500	-6678.62	124.49	-6.70	-1.378	-0.595	-65.560
LANTAI 2	C91	COMB5							
			0.0000	-6726.31	-113.14	3.99	1.168	21.316	-390.036
			1.9250	-6690.83	-113.14	3.99	1.168	13.635	-172.238
			3.8500	-6655.34	-113.14	3.99	1.168	5.953	45.559
LANTAI 2	C91	COMB6							
			0.0000	-6795.73	-116.80	-16.69	-0.087	-53.106	-397.722
			1.9250	-6760.24	-116.80	-16.69	-0.087	-20.969	-172.877
			3.8500	-6724.76	-116.80	-16.69	-0.087	11.169	51.969
LANTAI 2	C91	COMB7							
			0.0000	-6615.33	47.97	34.62	1.792	125.507	146.386
			1.9250	-6579.85	47.97	34.62	1.792	58.864	54.036
			3.8500	-6544.37	47.97	34.62	1.792	-7.778	-38.313
LANTAI 2	C91	COMB8							
			0.0000	-6629.17	-24.42	31.62	2.179	117.492	-97.054
			1.9250	-6593.69	-24.42	31.62	2.179	56.622	-50.054
			3.8500	-6558.21	-24.42	31.62	2.179	-4.249	-3.055
LANTAI 2	C91	COMB9							
			0.0000	-6846.72	35.77	-34.33	-2.389	-122.567	120.764
			1.9250	-6811.24	35.77	-34.33	-2.389	-56.480	51.909
			3.8500	-6775.76	35.77	-34.33	-2.389	9.607	-16.946
LANTAI 2	C91	COMB10							
			0.0000	-6860.57	-36.62	-37.33	-2.002	-130.582	-122.676
			1.9250	-6825.08	-36.62	-37.33	-2.002	-58.723	-52.182
			3.8500	-6789.60	-36.62	-37.33	-2.002	13.136	18.312

LANTAI 2	C91	COMB11						
		0.0000	-4110.19	125.96	14.26	-0.084	48.346	416.768
		1.9250	-4083.58	125.96	14.26	-0.084	20.898	174.304
		3.8500	-4056.97	125.96	14.26	-0.084	-6.550	-68.160
LANTAI 2	C91	COMB12						
		0.0000	-4179.61	122.29	-6.43	-1.339	-26.076	409.082
		1.9250	-4153.00	122.29	-6.43	-1.339	-13.705	173.666
		3.8500	-4126.39	122.29	-6.43	-1.339	-1.335	-61.749
LANTAI 2	C91	COMB13						
		0.0000	-4156.33	-115.34	4.26	1.207	21.632	-394.699
		1.9250	-4129.72	-115.34	4.26	1.207	13.423	-172.665
		3.8500	-4103.11	-115.34	4.26	1.207	5.214	49.369
LANTAI 2	C91	COMB14						
		0.0000	-4225.75	-119.00	-16.42	-0.048	-52.790	-402.386
		1.9250	-4199.14	-119.00	-16.42	-0.048	-21.181	-173.304
		3.8500	-4172.53	-119.00	-16.42	-0.048	10.429	55.779
LANTAI 2	C91	COMB15						
		0.0000	-4045.35	45.77	34.89	1.831	125.822	141.722
		1.9250	-4018.74	45.77	34.89	1.831	58.652	53.610
		3.8500	-3992.13	45.77	34.89	1.831	-8.517	-34.503
LANTAI 2	C91	COMB16						
		0.0000	-4059.20	-26.62	31.90	2.218	117.808	-101.718
		1.9250	-4032.58	-26.62	31.90	2.218	56.410	-50.481
		3.8500	-4005.97	-26.62	31.90	2.218	-4.988	0.755
LANTAI 2	C91	COMB17						
		0.0000	-4276.75	33.57	-34.06	-2.350	-122.252	116.100
		1.9250	-4250.14	33.57	-34.06	-2.350	-56.692	51.482
		3.8500	-4223.53	33.57	-34.06	-2.350	8.867	-13.136
LANTAI 2	C91	COMB18						
		0.0000	-4290.59	-38.82	-37.06	-1.963	-130.266	-127.340
		1.9250	-4263.98	-38.82	-37.06	-1.963	-58.935	-52.609
		3.8500	-4237.37	-38.82	-37.06	-1.963	12.396	22.122
LANTAI 2	C91	COMB19 MAX						
		0.0000	-4045.35	128.16	34.89	2.218	125.822	421.432
		1.9250	-4018.74	128.16	34.89	2.218	58.864	174.731
		3.8500	-3992.13	128.16	34.89	2.218	13.136	55.779
LANTAI 2	C91	COMB19 MIN						
		0.0000	-7446.34	-119.00	-37.33	-2.389	-130.582	-402.386
		1.9250	-7410.86	-119.00	-37.33	-2.389	-58.935	-173.304
		3.8500	-7375.37	-119.00	-37.33	-2.389	-8.517	-71.970
LANTAI 2	C91	COMBGRAV						
		0.0000	-6737.95	5.68	-1.35	-0.105	-2.538	11.855
		1.9250	-6702.47	5.68	-1.35	-0.105	0.071	0.927
		3.8500	-6666.98	5.68	-1.35	-0.105	2.679	-10.000
LANTAI 2	C91	2EX1						

		0.0000	46.14	241.30	9.99	-1.291	26.715	811.468
		1.9250	46.14	241.30	9.99	-1.291	7.475	346.970
		3.8500	46.14	241.30	9.99	-1.291	-11.764	-117.528
LANTAI 2	C91	2EX2						
		0.0000	-46.14	-241.30	-9.99	1.291	-26.715	-811.468
		1.9250	-46.14	-241.30	-9.99	1.291	-7.475	-346.970
		3.8500	-46.14	-241.30	-9.99	1.291	11.764	117.528
LANTAI 2	C91	COMBGSRY1						
		0.0000	-6969.34	-6.53	-70.31	-4.286	-250.611	-13.767
		1.9250	-6933.86	-6.53	-70.31	-4.286	-115.274	-1.200
		3.8500	-6898.38	-6.53	-70.31	-4.286	20.064	11.367
LANTAI 2	C91	COMBGSRY2						
		0.0000	-6506.55	17.88	67.60	4.076	245.536	37.477
		1.9250	-6471.07	17.88	67.60	4.076	115.415	3.055
		3.8500	-6435.59	17.88	67.60	4.076	-14.705	-31.368
LANTAI 2	C91	COMBGSRX1						
		0.0000	-6784.09	-235.62	-11.35	1.186	-29.252	-799.613
		1.9250	-6748.60	-235.62	-11.35	1.186	-7.405	-346.042
		3.8500	-6713.12	-235.62	-11.35	1.186	14.443	107.528
LANTAI 2	C91	COMBGSRX2						
		0.0000	-6691.81	246.97	8.64	-1.396	24.177	823.323
		1.9250	-6656.33	246.97	8.64	-1.396	7.546	347.897
		3.8500	-6620.85	246.97	8.64	-1.396	-9.085	-127.529
LANTAI 2	C91	2EY1						
		0.0000	231.40	12.21	68.95	4.181	248.074	25.622
		1.9250	231.40	12.21	68.95	4.181	115.345	2.127
		3.8500	231.40	12.21	68.95	4.181	-17.385	-21.367
LANTAI 2	C91	2EY2						
		0.0000	-231.40	-12.21	-68.95	-4.181	-248.074	-25.622
		1.9250	-231.40	-12.21	-68.95	-4.181	-115.345	-2.127
		3.8500	-231.40	-12.21	-68.95	-4.181	17.385	21.367

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S T O R Y D A T A

STORY	SIMILAR TO	HEIGHT	ELEVATION
DAK RUANG L	None	4.000	39.600
ATAP	LANTAI 8	4.000	35.600
LANTAI 8	None	4.000	31.600
LANTAI 7	LANTAI 8	4.000	27.600
LANTAI 6	LANTAI 8	4.000	23.600
LANTAI 5	LANTAI 8	4.000	19.600
LANTAI 4	LANTAI 8	4.000	15.600
LANTAI 3	LANTAI 8	4.000	11.600
LANTAI 2	LANTAI 8	4.500	7.600
LANTAI 1	LANTAI 8	3.100	3.100
BASE	None	0.000	

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W A L L C O N N E C T I V I T Y D A T A

WALL	POINT 1	POINT 2	POINT 3	POINT 4	PT1 STORY	PT2 STORY	PT3 STORY	PT4 STORY
W8	130	131	131	130	Below	Below	Same	Same
W9	144	145	145	144	Below	Below	Same	Same
W10	363	364	364	363	Below	Below	Same	Same
W11	365	362	362	365	Below	Below	Same	Same
W12	378	381	381	378	Below	Below	Same	Same
W13	380	379	379	380	Below	Below	Same	Same

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F L O O R C O N N E C T I V I T Y D A T A

FLOOR	POINT	POINT	POINT	POINT
F18	96	113	125	151
	110	109	148	108
F19	132	133	143	142
F20	147	146	148	149
F21	255-1	258-1	259-1	256-1
F22	273-1	276-1	278-1	275-1
F23	280-1	282-1	283-1	394-1

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N U L L A R E A C O N N E C T I V I T Y D A T A

AREA	POINT 1	POINT 2	POINT 3	POINT 4	PT1 STORY	PT2 STORY	PT3 STORY	PT4 STORY

A56	226	348	349	98	Same	Same	Same	Same
A57	349	350	228	98	Same	Same	Same	Same
A58	190	287	288	115	Same	Same	Same	Same
A59	115	192	351	288	Same	Same	Same	Same
A60	352	194	117	353	Same	Same	Same	Same
A61	353	354	196	117	Same	Same	Same	Same
A62	230	355	356	100	Same	Same	Same	Same
A63	100	356	357	232	Same	Same	Same	Same
A64	358	199	119	359	Same	Same	Same	Same
A65	234	360	361	102	Same	Same	Same	Same
A66	362	363	364	365	Same	Same	Same	Same
A67	366	367	368	369	Same	Same	Same	Same
A68	370	120	201	371	Same	Same	Same	Same
A69	103	372	373	236	Same	Same	Same	Same
A70	374	375	376	377	Same	Same	Same	Same
A71	378	379	380	381	Same	Same	Same	Same
A72	382	203	122	383	Same	Same	Same	Same
A73	383	122	205	384	Same	Same	Same	Same
A74	238	385	386	105	Same	Same	Same	Same
A75	105	240	387	386	Same	Same	Same	Same
A76	388	207	124	389	Same	Same	Same	Same
A77	389	124	209	390	Same	Same	Same	Same
A78	242	391	392	107	Same	Same	Same	Same
A79	107	392	393	244	Same	Same	Same	Same
A80	148	285	286	109	Same	Same	Same	Same
A81	280	282	283	394	Same	Same	Same	Same

M A S S S O U R C E D A T A

MASS LATERAL LUMP MASS
FROM MASS ONLY AT STORIES

Masses & LoaYes Yes

M A S S S O U R C E L O A D S

LOAD MULTIPLIER

LL 0.3000
SDL 1.0000

D I A P H R A G M M A S S D A T A

STORY	DIAPHRAGM	MASS-X	MASS-Y	MMI	X-M	Y-M
DAK RUANG L	D10	314.6705	314.6705	118801.6458	55.409	12.000
ATAP	D9	1935.5492	1935.54921486619.9053		47.811	12.063
LANTAI 8	D8	2428.5846	2428.58462013457.4405		46.280	12.040

LANTAI 7	D7	2429.7542	2429.75422015638.1957	46.298	12.038
LANTAI 6	D6	2429.4550	2429.45502015622.5260	46.299	12.038
LANTAI 5	D5	2482.0424	2482.04242068018.2777	46.321	12.041
LANTAI 4	D4	2542.1984	2542.19842127154.0739	46.341	12.045
LANTAI 3	D3	2542.1984	2542.19842127154.0739	46.341	12.045
LANTAI 2	D2	2564.9229	2564.92292147774.7829	46.348	12.046
LANTAI 1	D1	2569.1733	2569.17332155288.1584	46.303	12.055

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A S S E M B L E D P O I N T M A S S E S

STORY	POINT	UX	UY	UZ	RX	RY	RZ
DAK RUANG L	3974	314.670476	314.670476	0.000000	0.000000		
0.000000118801.64584							
ATAP	3975	1935.549228	1935.549228	0.000000	0.000000		
0.0000001486619.9053							
LANTAI 8	3976	2428.584640	2428.584640	0.000000	0.000000		
0.0000002013457.4405							
LANTAI 7	3977	2429.754229	2429.754229	0.000000	0.000000		
0.0000002015638.1957							
LANTAI 6	3978	2429.454979	2429.454979	0.000000	0.000000		
0.0000002015622.5260							
LANTAI 5	3979	2482.042429	2482.042429	0.000000	0.000000		
0.0000002068018.2777							
LANTAI 4	3980	2542.198429	2542.198429	0.000000	0.000000		
0.0000002127154.0739							
LANTAI 3	3981	2542.198429	2542.198429	0.000000	0.000000		
0.0000002127154.0739							
LANTAI 2	3982	2564.922870	2564.922870	0.000000	0.000000		
0.0000002147774.7829							
LANTAI 1	3983	2569.173289	2569.173289	0.000000	0.000000		
0.0000002155288.1584							
BASE	96	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	97	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	98	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	99	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	100	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	101	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	102	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	103	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	104	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	105	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	106	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	107	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	108	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	109	2.346486	2.346486	0.000000	0.000000	0.000000	0.000000
BASE	110	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	111	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	112	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	113	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	114	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	115	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	116	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000

BASE	117	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	118	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	119	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	120	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	121	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	122	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	123	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	124	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	125	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	126	2.380800	2.380800	0.000000	0.000000	0.000000	0.000000
BASE	127	2.380800	2.380800	0.000000	0.000000	0.000000	0.000000
BASE	128	2.380800	2.380800	0.000000	0.000000	0.000000	0.000000
BASE	129	2.380800	2.380800	0.000000	0.000000	0.000000	0.000000
BASE	130	6.100800	6.100800	0.000000	0.000000	0.000000	0.000000
BASE	131	6.100800	6.100800	0.000000	0.000000	0.000000	0.000000
BASE	132	2.380800	2.380800	0.000000	0.000000	0.000000	0.000000
BASE	133	2.380800	2.380800	0.000000	0.000000	0.000000	0.000000
BASE	134	2.380800	2.380800	0.000000	0.000000	0.000000	0.000000
BASE	135	2.380800	2.380800	0.000000	0.000000	0.000000	0.000000
BASE	136	2.380800	2.380800	0.000000	0.000000	0.000000	0.000000
BASE	137	2.380800	2.380800	0.000000	0.000000	0.000000	0.000000
BASE	138	2.380800	2.380800	0.000000	0.000000	0.000000	0.000000
BASE	139	2.380800	2.380800	0.000000	0.000000	0.000000	0.000000
BASE	140	2.380800	2.380800	0.000000	0.000000	0.000000	0.000000
BASE	141	2.380800	2.380800	0.000000	0.000000	0.000000	0.000000
BASE	142	2.380800	2.380800	0.000000	0.000000	0.000000	0.000000
BASE	143	2.380800	2.380800	0.000000	0.000000	0.000000	0.000000
BASE	144	6.100800	6.100800	0.000000	0.000000	0.000000	0.000000
BASE	145	6.100800	6.100800	0.000000	0.000000	0.000000	0.000000
BASE	146	2.380800	2.380800	0.000000	0.000000	0.000000	0.000000
BASE	147	2.380800	2.380800	0.000000	0.000000	0.000000	0.000000
BASE	148	2.904486	2.904486	0.000000	0.000000	0.000000	0.000000
BASE	149	2.380800	2.380800	0.000000	0.000000	0.000000	0.000000
BASE	151	1.822800	1.822800	0.000000	0.000000	0.000000	0.000000
BASE	362	1.581000	1.581000	0.000000	0.000000	0.000000	0.000000
BASE	363	1.581000	1.581000	0.000000	0.000000	0.000000	0.000000
BASE	364	1.581000	1.581000	0.000000	0.000000	0.000000	0.000000
BASE	365	1.581000	1.581000	0.000000	0.000000	0.000000	0.000000
BASE	366	1.185430	1.185430	0.000000	0.000000	0.000000	0.000000
BASE	369	1.185430	1.185430	0.000000	0.000000	0.000000	0.000000
BASE	378	1.581000	1.581000	0.000000	0.000000	0.000000	0.000000
BASE	379	1.581000	1.581000	0.000000	0.000000	0.000000	0.000000
BASE	380	1.581000	1.581000	0.000000	0.000000	0.000000	0.000000
BASE	381	1.581000	1.581000	0.000000	0.000000	0.000000	0.000000
DAK RUANG L	All	314.670476	314.670476	0.000000	0.000000		
0.000000118801.64584							
ATAP	All	1935.549228	1935.549228	0.000000	0.000000	0.0000001486619.9053	
LANTAI 8	All	2428.584640	2428.584640	0.000000	0.000000		
0.0000002013457.4405							
LANTAI 7	All	2429.754229	2429.754229	0.000000	0.000000		
0.0000002015638.1957							
LANTAI 6	All	2429.454979	2429.454979	0.000000	0.000000		
0.0000002015622.5260							
LANTAI 5	All	2482.042429	2482.042429	0.000000	0.000000		
0.0000002068018.2777							

LANTAI 4 All 2542.198429 2542.198429 0.000000 0.000000
0.0000002127154.0739
LANTAI 3 All 2542.198429 2542.198429 0.000000 0.000000
0.0000002127154.0739
LANTAI 2 All 2564.922870 2564.922870 0.000000 0.000000
0.0000002147774.7829
LANTAI 1 All 2569.173289 2569.173289 0.000000 0.000000
0.0000002155288.1584
BASE All 144.592232 144.592232 0.000000 0.000000 0.000000 0.000000
Totals All 22383.14122822383.141228 0.000000 0.000000 0.00000018275529.080

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G R O U P M A S S D A T A

GROUP NAME	SELF MASS	SELF WEIGHT	TOTAL MASS-X	TOTAL MASS-Y	TOTAL MASS-Z
ALL	14382.9974	143829.974	23106.3971	23106.3971	0.0000

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M A T E R I A L L I S T B Y E L E M E N T T Y P E

ELEMENT TYPE	MATERIAL	TOTAL MASS tons	NUMBER PIECES	NUMBER STUDS
Column	CONC	2227.60	543	
Beam	CONC	4696.35	1543	0
Wall	CONC	644.72		
Floor	CONC	7097.90		

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M A T E R I A L L I S T B Y S E C T I O N

SECTION	ELEMENT TYPE	NUMBER PIECES	TOTAL LENGTH meters	TOTAL MASS tons	NUMBER STUDS
K450X450	Column	2	4.000	1.98	
B350X550	Beam	6	48.000	22.61	0
B350X600	Beam	12	96.000	46.56	0
B350X650	Beam	8	64.000	33.63	0
B250X350	Beam	9	15.075	3.23	0
B300X450	Beam	8	36.500	11.00	0
K40X40	Column	30	58.700	22.99	
K45X45	Column	16	64.000	31.72	
K60X60	Column	96	384.000	338.32	
K55X55	Column	124	496.000	367.20	
K70X70	Column	155	607.600	728.63	
K80X80	Column	120	470.400	736.78	
B30X60	Beam	225	1683.000	678.46	0
B30X65	Beam	180	1476.000	646.64	0

B35X55	Beam	513	3387.600	1591.90	0
B35X60	Beam	216	1656.000	772.50	0
B35X65	Beam	162	1296.000	659.77	0
B25X45	Beam	204	842.000	230.05	0
WALL250	Wall			644.72	
P140	Floor			7097.90	

ETABS v8.4.5 File:TA_RSCM-11832 Units:KN-m February 19, 2009 6:26 PAGE 16

M A T E R I A L L I S T B Y S T O R Y

STORY	ELEMENT TYPE	MATERIAL	TOTAL WEIGHT tons	FLOOR AREA m2	UNIT WEIGHT kg/m2	NUMBER PIECES	NUMBER STUDS
DAK RUANG L	Column	CONC	42.68	520.250	82.0399	30	
DAK RUANG L	Beam	CONC	127.63	520.250	245.3199	41	0
DAK RUANG L	Floor	CONC	178.25	520.250	342.6246		
ATAP	Column	CONC	177.94	2244.000	79.2979	57	
ATAP	Beam	CONC	511.19	2244.000	227.8035	166	0
ATAP	Wall	CONC	72.44	2244.000	32.2819		
ATAP	Floor	CONC	768.85	2244.000	342.6246		
LANTAI 8	Column	CONC	178.36	2244.000	79.4833	57	
LANTAI 8	Beam	CONC	512.00	2244.000	228.1655	167	0
LANTAI 8	Wall	CONC	72.44	2244.000	32.2819		
LANTAI 8	Floor	CONC	768.85	2244.000	342.6246		
LANTAI 7	Column	CONC	177.94	2244.000	79.2979	57	
LANTAI 7	Beam	CONC	512.02	2244.000	228.1716	167	0
LANTAI 7	Wall	CONC	72.44	2244.000	32.2819		
LANTAI 7	Floor	CONC	768.85	2244.000	342.6246		
LANTAI 6	Column	CONC	177.94	2244.000	79.2979	57	
LANTAI 6	Beam	CONC	512.02	2244.000	228.1716	167	0
LANTAI 6	Wall	CONC	72.44	2244.000	32.2819		
LANTAI 6	Floor	CONC	768.85	2244.000	342.6246		
LANTAI 5	Column	CONC	300.63	2244.000	133.9700	57	
LANTAI 5	Beam	CONC	504.30	2244.000	224.7323	167	0
LANTAI 5	Wall	CONC	72.44	2244.000	32.2819		
LANTAI 5	Floor	CONC	768.85	2244.000	342.6246		
LANTAI 4	Column	CONC	300.63	2244.000	133.9700	57	
LANTAI 4	Beam	CONC	504.30	2244.000	224.7323	167	0
LANTAI 4	Wall	CONC	72.44	2244.000	32.2819		
LANTAI 4	Floor	CONC	768.85	2244.000	342.6246		
LANTAI 3	Column	CONC	300.63	2244.000	133.9700	57	
LANTAI 3	Beam	CONC	504.30	2244.000	224.7323	167	0
LANTAI 3	Wall	CONC	72.44	2244.000	32.2819		
LANTAI 3	Floor	CONC	768.85	2244.000	342.6246		

LANTAI 2	Column	CONC	338.21	2244.000	150.7162	57	
LANTAI 2	Beam	CONC	504.30	2244.000	224.7323	167	0
LANTAI 2	Wall	CONC	81.50	2244.000	36.3172		
LANTAI 2	Floor	CONC	768.85	2244.000	342.6246		
LANTAI 1	Column	CONC	232.63	2244.000	103.6697	57	
LANTAI 1	Beam	CONC	504.30	2244.000	224.7323	167	0
LANTAI 1	Wall	CONC	56.14	2244.000	25.0185		
LANTAI 1	Floor	CONC	768.85	2244.000	342.6246		
SUM	Column	CONC	2227.60	20716.250	107.5293	543	
SUM	Beam	CONC	4696.35	20716.250	226.6990	1543	0
SUM	Wall	CONC	644.72	20716.250	31.1215		
SUM	Floor	CONC	7097.90	20716.250	342.6246		
TOTAL	All	All	14666.58	20716.250	707.9744	2086	0

M A T E R I A L P R O P E R T Y D A T A

MATERIAL NAME	MATERIAL TYPE	DESIGN TYPE	DIR/PLANE	MODULUS OF ELASTICITY	POISSON'S RATIO	THERMAL COEFF	SHEAR MODULUS
STEEL	Iso	Steel	All	199947978.80	0.3000	1.1700E-05	76903068.77
CONC	Ortho	Concrete	1 / 12	20000000.000	0.2000	9.9000E-06	8333333.300
		Concrete	2 / 13	20000000.000	0.2000	9.9000E-06	8333333.300
		Concrete	3 / 23	20000000.000	0.2000	9.9000E-06	8333333.300
OTHER	Iso	None	All	199947978.80	0.3000	1.1700E-05	76903068.77

M A T E R I A L P R O P E R T Y M A S S A N D W E I G H T

MATERIAL NAME	MASS PER UNIT VOL	WEIGHT PER UNIT VOL
STEEL	7.8271E+00	7.6820E+01
CONC	2.4000E+00	2.4000E+01
OTHER	7.8271E+00	7.6820E+01

M A T E R I A L D E S I G N D A T A F O R S T E E L M A T E R I A L S

MATERIAL NAME	STEEL FY	STEEL FU	STEEL COST ($)
STEEL	344737.894	448159.263	271447.16

M A T E R I A L D E S I G N D A T A F O R C O N C R E T E M A T E R I A L S

MATERIAL NAME	LIGHTWEIGHT CONCRETE	CONCRETE FC	REBAR FY	REBAR FYS	LIGHTWT REDUC FACT

CONC No 35000.000 400000.000 240000.000 N/A

F R A M E S E C T I O N P R O P E R T Y D A T A

FRAME SECTION NAME	MATERIAL NAME	SECTION SHAPE NAME	NAME OR NAME IN SECTION DATABASE FILE	CONC COL	CONC BEAM
K450X450	CONC	Rectangular	Yes		
K500X500	CONC	Rectangular	Yes		
K550X550	CONC	Rectangular	Yes		
K600X600	CONC	Rectangular	Yes		
K650X650	CONC	Rectangular	Yes		
K700X700	CONC	Rectangular	Yes		
K750X750	CONC	Rectangular	Yes		
K800X800	CONC	Rectangular	Yes		
B350X550	CONC	Rectangular			Yes
B350X600	CONC	Rectangular			Yes
B350X650	CONC	Rectangular			Yes
B250X350	CONC	Rectangular			Yes
B300X450	CONC	Rectangular			Yes
K850X850	CONC	Rectangular	Yes		
B350X700	CONC	Rectangular			Yes
B400X700	CONC	Rectangular			Yes
B450X700	CONC	Rectangular			Yes
B500X800	CONC	Rectangular			Yes
B550X800	CONC	Rectangular	Yes		
B550X850	CONC	Rectangular			Yes
B450X750	CONC	Rectangular			Yes
B500X700	CONC	Rectangular	Yes		
B550X700	CONC	Rectangular			Yes
B600X800	CONC	Rectangular			Yes
B650X800	CONC	Rectangular			Yes
B550X750	CONC	Rectangular			Yes
B500X950	CONC	Rectangular	Yes		
K40X40	CONC	Rectangular	Yes		
K45X45	CONC	Rectangular	Yes		
K50X50	CONC	Rectangular	Yes		
K60X60	CONC	Rectangular	Yes		
K55X55	CONC	Rectangular	Yes		
K65X65	CONC	Rectangular	Yes		
K70X70	CONC	Rectangular	Yes		
K75X75	CONC	Rectangular	Yes		
K85X85	CONC	Rectangular	Yes		
K90X90	CONC	Rectangular	Yes		
K80X80	CONC	Rectangular	Yes		
B350X750	CONC	Rectangular			Yes
B450X800	CONC	Rectangular			Yes
B350X800	CONC	Rectangular			Yes
B450X850	CONC	Rectangular			Yes
B400X800	CONC	Rectangular			Yes
B500X750	CONC	Rectangular			Yes

B30X55	CONC	Rectangular	Yes
B30X60	CONC	Rectangular	Yes
B30X65	CONC	Rectangular	Yes
B35X55	CONC	Rectangular	Yes
B35X60	CONC	Rectangular	Yes
B35X65	CONC	Rectangular	Yes
B25X45	CONC	Rectangular	Yes

F R A M E S E C T I O N P R O P E R T Y D A T A

FRAME SECTION NAME	SECTION DEPTH	FLANGE WIDTH TOP	FLANGE THICK TOP	WEB THICK	FLANGE WIDTH BOT	FLANGE THICK BOT
K450X450	0.4500	0.4500	0.0000	0.0000	0.0000	0.0000
K500X500	0.5000	0.5000	0.0000	0.0000	0.0000	0.0000
K550X550	0.5500	0.5500	0.0000	0.0000	0.0000	0.0000
K600X600	0.6000	0.6000	0.0000	0.0000	0.0000	0.0000
K650X650	0.6500	0.6500	0.0000	0.0000	0.0000	0.0000
K700X700	0.7000	0.7000	0.0000	0.0000	0.0000	0.0000
K750X750	0.7500	0.7500	0.0000	0.0000	0.0000	0.0000
K800X800	0.8000	0.8000	0.0000	0.0000	0.0000	0.0000
B350X550	0.5500	0.3500	0.0000	0.0000	0.0000	0.0000
B350X600	0.6000	0.3500	0.0000	0.0000	0.0000	0.0000
B350X650	0.6500	0.3500	0.0000	0.0000	0.0000	0.0000
B250X350	0.3500	0.2500	0.0000	0.0000	0.0000	0.0000
B300X450	0.4500	0.3000	0.0000	0.0000	0.0000	0.0000
K850X850	0.8500	0.8500	0.0000	0.0000	0.0000	0.0000
B350X700	0.7000	0.3500	0.0000	0.0000	0.0000	0.0000
B400X700	0.7000	0.4000	0.0000	0.0000	0.0000	0.0000
B450X700	0.7000	0.4500	0.0000	0.0000	0.0000	0.0000
B500X800	0.8000	0.5000	0.0000	0.0000	0.0000	0.0000
B550X800	0.8000	0.5500	0.0000	0.0000	0.0000	0.0000
B550X850	0.8500	0.5500	0.0000	0.0000	0.0000	0.0000
B450X750	0.7500	0.4500	0.0000	0.0000	0.0000	0.0000
B500X700	0.7000	0.5000	0.0000	0.0000	0.0000	0.0000
B550X700	0.7000	0.5500	0.0000	0.0000	0.0000	0.0000
B600X800	0.8000	0.6000	0.0000	0.0000	0.0000	0.0000
B650X800	0.8000	0.6500	0.0000	0.0000	0.0000	0.0000
B550X750	0.7500	0.5500	0.0000	0.0000	0.0000	0.0000
B500X950	0.9500	0.5000	0.0000	0.0000	0.0000	0.0000
K40X40	0.4000	0.4000	0.0000	0.0000	0.0000	0.0000
K45X45	0.4500	0.4500	0.0000	0.0000	0.0000	0.0000
K50X50	0.5000	0.5000	0.0000	0.0000	0.0000	0.0000
K60X60	0.6000	0.6000	0.0000	0.0000	0.0000	0.0000
K55X55	0.5500	0.5500	0.0000	0.0000	0.0000	0.0000
K65X65	0.6500	0.6500	0.0000	0.0000	0.0000	0.0000
K70X70	0.7000	0.7000	0.0000	0.0000	0.0000	0.0000
K75X75	0.7500	0.7500	0.0000	0.0000	0.0000	0.0000
K85X85	0.8500	0.8500	0.0000	0.0000	0.0000	0.0000
K90X90	0.9000	0.9000	0.0000	0.0000	0.0000	0.0000
K80X80	0.8000	0.8000	0.0000	0.0000	0.0000	0.0000
B350X750	0.7500	0.3500	0.0000	0.0000	0.0000	0.0000

B450X800	0.8000	0.4500	0.0000	0.0000	0.0000	0.0000
B350X800	0.8000	0.3500	0.0000	0.0000	0.0000	0.0000
B450X850	0.8500	0.4500	0.0000	0.0000	0.0000	0.0000
B400X800	0.8000	0.4000	0.0000	0.0000	0.0000	0.0000
B500X750	0.7500	0.5000	0.0000	0.0000	0.0000	0.0000
B30X55	0.5500	0.3000	0.0000	0.0000	0.0000	0.0000
B30X60	0.6000	0.3000	0.0000	0.0000	0.0000	0.0000
B30X65	0.6500	0.3000	0.0000	0.0000	0.0000	0.0000
B35X55	0.5500	0.3500	0.0000	0.0000	0.0000	0.0000
B35X60	0.6000	0.3500	0.0000	0.0000	0.0000	0.0000
B35X65	0.6500	0.3500	0.0000	0.0000	0.0000	0.0000
B25X45	0.4500	0.2500	0.0000	0.0000	0.0000	0.0000

F R A M E S E C T I O N P R O P E R T Y D A T A

FRAME SECTION NAME	SECTION AREA	TORSIONAL CONSTANT	MOMENTS OF INERTIA I33	I22	SHEAR AREAS A2	A3
K450X450	0.2025	0.0058	0.0034	0.0034	0.1688	0.1688
K500X500	0.2500	0.0088	0.0052	0.0052	0.2083	0.2083
K550X550	0.3025	0.0129	0.0076	0.0076	0.2521	0.2521
K600X600	0.3600	0.0183	0.0108	0.0108	0.3000	0.3000
K650X650	0.4225	0.0251	0.0149	0.0149	0.3521	0.3521
K700X700	0.4900	0.0338	0.0200	0.0200	0.4083	0.4083
K750X750	0.5625	0.0446	0.0264	0.0264	0.4688	0.4688
K800X800	0.6400	0.0577	0.0341	0.0341	0.5333	0.5333
B350X550	0.1925	0.0048	0.0049	0.0020	0.1604	0.1604
B350X600	0.2100	0.0055	0.0063	0.0021	0.1750	0.1750
B350X650	0.2275	0.0062	0.0080	0.0023	0.1896	0.1896
B250X350	0.0875	0.0010	0.0009	0.0005	0.0729	0.0729
B300X450	0.1350	0.0024	0.0023	0.0010	0.1125	0.1125
K850X850	0.7225	0.0735	0.0435	0.0435	0.6021	0.6021
B350X700	0.2450	0.0069	0.0100	0.0025	0.2042	0.2042
B400X700	0.2800	0.0096	0.0114	0.0037	0.2333	0.2333
B450X700	0.3150	0.0128	0.0129	0.0053	0.2625	0.2625
B500X800	0.4000	0.0204	0.0213	0.0083	0.3333	0.3333
B550X800	0.4400	0.0255	0.0235	0.0111	0.3667	0.3667
B550X850	0.4675	0.0282	0.0281	0.0118	0.3896	0.3896
B450X750	0.3375	0.0143	0.0158	0.0057	0.2813	0.2813
B500X700	0.3500	0.0163	0.0143	0.0073	0.2917	0.2917
B550X700	0.3850	0.0202	0.0157	0.0097	0.3208	0.3208
B600X800	0.4800	0.0311	0.0256	0.0144	0.4000	0.4000
B650X800	0.5200	0.0371	0.0277	0.0183	0.4333	0.4333
B550X750	0.4125	0.0228	0.0193	0.0104	0.3438	0.3438
B500X950	0.4750	0.0265	0.0357	0.0099	0.3958	0.3958
K40X40	0.1600	0.0036	0.0021	0.0021	0.1333	0.1333
K45X45	0.2025	0.0058	0.0034	0.0034	0.1688	0.1688
K50X50	0.2500	0.0088	0.0052	0.0052	0.2083	0.2083
K60X60	0.3600	0.0183	0.0108	0.0108	0.3000	0.3000
K55X55	0.3025	0.0129	0.0076	0.0076	0.2521	0.2521
K65X65	0.4225	0.0251	0.0149	0.0149	0.3521	0.3521
K70X70	0.4900	0.0338	0.0200	0.0200	0.4083	0.4083

K75X75	0.5625	0.0446	0.0264	0.0264	0.4688	0.4688
K85X85	0.7225	0.0735	0.0435	0.0435	0.6021	0.6021
K90X90	0.8100	0.0924	0.0547	0.0547	0.6750	0.6750
K80X80	0.6400	0.0577	0.0341	0.0341	0.5333	0.5333
B350X750	0.2625	0.0076	0.0123	0.0027	0.2188	0.2188
B450X800	0.3600	0.0158	0.0192	0.0061	0.3000	0.3000
B350X800	0.2800	0.0083	0.0149	0.0029	0.2333	0.2333
B450X850	0.3825	0.0173	0.0230	0.0065	0.3188	0.3188
B400X800	0.3200	0.0117	0.0171	0.0043	0.2667	0.2667
B500X750	0.3750	0.0183	0.0176	0.0078	0.3125	0.3125
B30X55	0.1650	0.0033	0.0042	0.0012	0.1375	0.1375
B30X60	0.1800	0.0037	0.0054	0.0014	0.1500	0.1500
B30X65	0.1950	0.0042	0.0069	0.0015	0.1625	0.1625
B35X55	0.1925	0.0048	0.0049	0.0020	0.1604	0.1604
B35X60	0.2100	0.0055	0.0063	0.0021	0.1750	0.1750
B35X65	0.2275	0.0062	0.0080	0.0023	0.1896	0.1896
B25X45	0.1125	0.0015	0.0019	0.0006	0.0938	0.0938

F R A M E S E C T I O N P R O P E R T Y D A T A

	SECTION MODULI		PLASTIC MODULI		RADIUS OF GYRATION	
FRAME SECTION NAME	S33	S22	Z33	Z22	R33	R22
K450X450	0.0152	0.0152	0.0228	0.0228	0.1299	0.1299
K500X500	0.0208	0.0208	0.0313	0.0313	0.1443	0.1443
K550X550	0.0277	0.0277	0.0416	0.0416	0.1588	0.1588
K600X600	0.0360	0.0360	0.0540	0.0540	0.1732	0.1732
K650X650	0.0458	0.0458	0.0687	0.0687	0.1876	0.1876
K700X700	0.0572	0.0572	0.0858	0.0858	0.2021	0.2021
K750X750	0.0703	0.0703	0.1055	0.1055	0.2165	0.2165
K800X800	0.0853	0.0853	0.1280	0.1280	0.2309	0.2309
B350X550	0.0176	0.0112	0.0265	0.0168	0.1588	0.1010
B350X600	0.0210	0.0123	0.0315	0.0184	0.1732	0.1010
B350X650	0.0246	0.0133	0.0370	0.0199	0.1876	0.1010
B250X350	0.0051	0.0036	0.0077	0.0055	0.1010	0.0722
B300X450	0.0101	0.0068	0.0152	0.0101	0.1299	0.0866
K850X850	0.1024	0.1024	0.1535	0.1535	0.2454	0.2454
B350X700	0.0286	0.0143	0.0429	0.0214	0.2021	0.1010
B400X700	0.0327	0.0187	0.0490	0.0280	0.2021	0.1155
B450X700	0.0368	0.0236	0.0551	0.0354	0.2021	0.1299
B500X800	0.0533	0.0333	0.0800	0.0500	0.2309	0.1443
B550X800	0.0587	0.0403	0.0880	0.0605	0.2309	0.1588
B550X850	0.0662	0.0429	0.0993	0.0643	0.2454	0.1588
B450X750	0.0422	0.0253	0.0633	0.0380	0.2165	0.1299
B500X700	0.0408	0.0292	0.0613	0.0438	0.2021	0.1443
B550X700	0.0449	0.0353	0.0674	0.0529	0.2021	0.1588
B600X800	0.0640	0.0480	0.0960	0.0720	0.2309	0.1732
B650X800	0.0693	0.0563	0.1040	0.0845	0.2309	0.1876
B550X750	0.0516	0.0378	0.0773	0.0567	0.2165	0.1588
B500X950	0.0752	0.0396	0.1128	0.0594	0.2742	0.1443
K40X40	0.0107	0.0107	0.0160	0.0160	0.1155	0.1155
K45X45	0.0152	0.0152	0.0228	0.0228	0.1299	0.1299
K50X50	0.0208	0.0208	0.0313	0.0313	0.1443	0.1443

K60X60	0.0360	0.0360	0.0540	0.0540	0.1732	0.1732
K55X55	0.0277	0.0277	0.0416	0.0416	0.1588	0.1588
K65X65	0.0458	0.0458	0.0687	0.0687	0.1876	0.1876
K70X70	0.0572	0.0572	0.0858	0.0858	0.2021	0.2021
K75X75	0.0703	0.0703	0.1055	0.1055	0.2165	0.2165
K85X85	0.1024	0.1024	0.1535	0.1535	0.2454	0.2454
K90X90	0.1215	0.1215	0.1823	0.1823	0.2598	0.2598
K80X80	0.0853	0.0853	0.1280	0.1280	0.2309	0.2309
B350X750	0.0328	0.0153	0.0492	0.0230	0.2165	0.1010
B450X800	0.0480	0.0270	0.0720	0.0405	0.2309	0.1299
B350X800	0.0373	0.0163	0.0560	0.0245	0.2309	0.1010
B450X850	0.0542	0.0287	0.0813	0.0430	0.2454	0.1299
B400X800	0.0427	0.0213	0.0640	0.0320	0.2309	0.1155
B500X750	0.0469	0.0313	0.0703	0.0469	0.2165	0.1443
B30X55	0.0151	0.0083	0.0227	0.0124	0.1588	0.0866
B30X60	0.0180	0.0090	0.0270	0.0135	0.1732	0.0866
B30X65	0.0211	0.0098	0.0317	0.0146	0.1876	0.0866
B35X55	0.0176	0.0112	0.0265	0.0168	0.1588	0.1010
B35X60	0.0210	0.0123	0.0315	0.0184	0.1732	0.1010
B35X65	0.0246	0.0133	0.0370	0.0199	0.1876	0.1010
B25X45	0.0084	0.0047	0.0127	0.0070	0.1299	0.0722

F R A M E S E C T I O N W E I G H T S A N D M A S S E S

FRAME SECTION NAME	TOTAL WEIGHT	TOTAL MASS
K450X450	19.4400	1.9440
K500X500	0.0000	0.0000
K550X550	0.0000	0.0000
K600X600	0.0000	0.0000
K650X650	0.0000	0.0000
K700X700	0.0000	0.0000
K750X750	0.0000	0.0000
K800X800	0.0000	0.0000
B350X550	221.7600	22.1760
B350X600	456.6240	45.6624
B350X650	329.7840	32.9784
B250X350	31.6575	3.1658
B300X450	107.8920	10.7892
K850X850	0.0000	0.0000
B350X700	0.0000	0.0000
B400X700	0.0000	0.0000
B450X700	0.0000	0.0000
B500X800	0.0000	0.0000
B550X800	0.0000	0.0000
B550X850	0.0000	0.0000
B450X750	0.0000	0.0000
B500X700	0.0000	0.0000
B550X700	0.0000	0.0000
B600X800	0.0000	0.0000
B650X800	0.0000	0.0000
B550X750	0.0000	0.0000
B500X950	0.0000	0.0000

K40X40	225.4080	22.5408
K45X45	311.0400	31.1040
K50X50	0.0000	0.0000
K60X60	3317.7600	331.7760
K55X55	3600.9600	360.0960
K65X65	0.0000	0.0000
K70X70	7145.3760	714.5376
K75X75	0.0000	0.0000
K85X85	0.0000	0.0000
K90X90	0.0000	0.0000
K80X80	7225.3440	722.5344
B350X750	0.0000	0.0000
B450X800	0.0000	0.0000
B350X800	0.0000	0.0000
B450X850	0.0000	0.0000
B400X800	0.0000	0.0000
B500X750	0.0000	0.0000
B30X55	0.0000	0.0000
B30X60	6653.4480	665.3448
B30X65	6341.4000	634.1400
B35X55	15611.2110	1561.1211
B35X60	7575.6240	757.5624
B35X65	6470.1000	647.0100
B25X45	2255.9850	225.5985

C O N C R E T E C O L U M N D A T A

FRAME SECTION NAME	REINF CONFIGURATION LONGIT	REINF LATERAL	NUM BARS SIZE/TYPE	NUM BARS 3DIR/2DIR	BAR CIRCULAR COVER
K450X450	Rectangular Ties	#9/Design	3/3	N/A	0.0457
K500X500	Rectangular Ties	#9/Design	3/3	N/A	0.0457
K550X550	Rectangular Ties	#9/Design	3/3	N/A	0.0457
K600X600	Rectangular Ties	#9/Design	3/3	N/A	0.0457
K650X650	Rectangular Ties	#9/Design	3/3	N/A	0.0457
K700X700	Rectangular Ties	#9/Design	3/3	N/A	0.0457
K750X750	Rectangular Ties	#9/Design	3/3	N/A	0.0457
K800X800	Rectangular Ties	#9/Design	3/3	N/A	0.0457
K850X850	Rectangular Ties	#9/Design	3/3	N/A	0.0750
B550X800	Rectangular Ties	#9/Design	3/3	N/A	0.0800
B500X700	Rectangular Ties	#9/Design	3/3	N/A	0.0457
B500X950	Rectangular Ties	#9/Design	3/3	N/A	0.0850
K40X40	Rectangular Ties	25M/Design	4/3	N/A	0.0400
K45X45	Rectangular Ties	25M/Design	4/4	N/A	0.0450
K50X50	Rectangular Ties	#8/Design	5/5	N/A	0.0500
K60X60	Rectangular Ties	30M/Design	6/5	N/A	0.0550
K55X55	Rectangular Ties	30M/Design	5/5	N/A	0.0600
K65X65	Rectangular Ties	30M/Design	6/5	N/A	0.0650
K70X70	Rectangular Ties	30M/Design	6/6	N/A	0.0457
K75X75	Rectangular Ties	35M/Design	6/5	N/A	0.0750
K85X85	Rectangular Ties	35M/Design	7/7	N/A	0.0850

K90X90	Rectangular Ties	35M/Design	7/7	N/A	0.0457
K80X80	Rectangular Ties	35M/Design	6/6	N/A	0.0457

C O N C R E T E B E A M D A T A

FRAME SECTION NAME	TOP COVER	BOT COVER	TOP LEFT AREA	TOP RIGHT AREA	BOT LEFT AREA	BOT RIGHT AREA
B350X550	0.0550	0.0550	0.000	0.000	0.000	0.000
B350X600	0.0600	0.0600	0.000	0.000	0.000	0.000
B350X650	0.0650	0.0650	0.000	0.000	0.000	0.000
B250X350	0.0350	0.0350	0.000	0.000	0.000	0.000
B300X450	0.0400	0.0400	0.000	0.000	0.000	0.000
B350X700	0.0650	0.0650	0.000	0.000	0.000	0.000
B400X700	0.0700	0.0700	0.000	0.000	0.000	0.000
B450X700	0.0700	0.0700	0.000	0.000	0.000	0.000
B500X800	0.0800	0.0800	0.000	0.000	0.000	0.000
B550X850	0.0850	0.0850	0.000	0.000	0.000	0.000
B450X750	0.0750	0.0750	0.000	0.000	0.000	0.000
B550X700	0.0700	0.0700	0.000	0.000	0.000	0.000
B600X800	0.0457	0.0457	0.000	0.000	0.000	0.000
B650X800	0.0800	0.0800	0.000	0.000	0.000	0.000
B550X750	0.0750	0.0750	0.000	0.000	0.000	0.000
B350X750	0.0750	0.0750	0.000	0.000	0.000	0.000
B450X800	0.0800	0.0800	0.000	0.000	0.000	0.000
B350X800	0.0800	0.0800	0.000	0.000	0.000	0.000
B450X850	0.0850	0.0850	0.000	0.000	0.000	0.000
B400X800	0.0800	0.0800	0.000	0.000	0.000	0.000
B500X750	0.0750	0.0750	0.000	0.000	0.000	0.000
B30X55	0.0550	0.0550	0.000	0.000	0.000	0.000
B30X60	0.0600	0.0600	0.000	0.000	0.000	0.000
B30X65	0.0650	0.0650	0.000	0.000	0.000	0.000
B35X55	0.0550	0.0550	0.000	0.000	0.000	0.000
B35X60	0.0600	0.0600	0.000	0.000	0.000	0.000
B35X65	0.0650	0.0650	0.000	0.000	0.000	0.000
B25X45	0.0450	0.0450	0.000	0.000	0.000	0.000

S H E L L S E C T I O N P R O P E R T Y D A T A

SHELL SECTION	MATERIAL NAME	SHELL TYPE	LOAD DIST ONE WAY	MEMBRANE THICK	BENDING THICK	TOTAL WEIGHT	TOTAL MASS
WALL250	CONC	Shell-Thin	No	0.2500	0.2500	6322.5600	632.2560
P140	CONC	Membrane	No	0.1400	0.1400	69606.6000	6960.6600
DECK1	CONC	Membrane	No	0.0889	0.0889	0.0000	0.0000
PLANK1	CONC	Membrane	Yes	0.2500	0.2500	0.0000	0.0000

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D E C K S E C T I O N P R O P E R T Y D A T A

DECK SECTION	DECK TYPE	SLAB MATERIAL	DECK MATERIAL	DECK SHEAR THICK	DECK UNIT WT
DECK1	Filled	CONC	N/A	N/A	1.1012E-01

D E C K S E C T I O N S H E A R S T U D D A T A

DECK SECTION	STUD DIAM	STUD HEIGHT	STUD FU
DECK1	0.0191	0.1524	413685.473

D E C K S E C T I O N G E O M E T R Y D A T A

DECK SECTION	SLAB DEPTH	RIB DEPTH	RIB WIDTH	RIB SPACING
DECK1	0.0889	0.0762	0.1524	0.3048

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L I N K P R O P E R T Y D A T A

LINK: NLPR1
TYPE: Damper

MASS	WEIGHT	INERTIA 1	INERTIA 2	INERTIA 3	P-D M2I	P-D M2J	P-D M3I	P-D M3J
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

DOF	KE	CE	DJ	K	C	C EXP
U1	0.0000	0.0000	N/A	---	---	---

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S T A T I C L O A D C A S E S

STATIC CASE	CASE TYPE	AUTO LAT LOAD	SELF WT MULTIPLIER
DL	DEAD	N/A	1.0000
LL	LIVE	N/A	0.0000
SDL	SUPER DEAD	N/A	0.0000
EX	QUAKE	USER_LOADS	0.0000

EY QUAKE USER_LOADS 0.0000

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R E S P O N S E S P E C T R U M C A S E S

RESP SPEC CASE: SNI2002

BASIC RESPONSE SPECTRUM DATA

MODAL COMBO	DIRECTION COMBO	MODAL DAMPING	SPECTRUM ANGLE	TYPICAL ECCEN
CQC	SRSS	0.0500	0.0000	0.0000

RESPONSE SPECTRUM FUNCTION ASSIGNMENT DATA

DIRECTION	FUNCTION	SCALE FACT
U1	WG3SDG	9.8100
U2	WG3SDG	9.8100
UZ	WG3SDG	9.8100

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L O A D I N G C O M B I N A T I O N S

COMBO	COMBO TYPE	CASE	CASE TYPE	SCALE FACTOR
COMB1	ADD	DL	Static	1.4000
	SDL	Static	1.4000	
COMB2	ADD	DL	Static	1.2000
	LL	Static	1.6000	
	SDL	Static	1.2000	
COMB3	ADD	DL	Static	1.2000
	LL	Static	1.0000	
	SDL	Static	1.2000	
	EX	Static	1.0000	
	EY	Static	0.3000	
COMB4	ADD	DL	Static	1.2000
	LL	Static	1.0000	
	SDL	Static	1.2000	
	EX	Static	1.0000	
	EY	Static	-0.3000	
COMB5	ADD	DL	Static	1.2000
	LL	Static	1.0000	
	SDL	Static	1.2000	
	EX	Static	-1.0000	
	EY	Static	0.3000	
COMB6	ADD	DL	Static	1.2000
	LL	Static	1.0000	
	SDL	Static	1.2000	
	EX	Static	-1.0000	

	EY	Static	-0.3000	
COMB7	ADD	DL	Static	1.2000
	LL	Static	1.0000	
	SDL	Static	1.2000	
	EX	Static	0.3000	
	EY	Static	1.0000	
COMB8	ADD	DL	Static	1.2000
	LL	Static	1.0000	
	SDL	Static	1.2000	
	EX	Static	-0.3000	
	EY	Static	1.0000	
COMB9	ADD	DL	Static	1.2000
	LL	Static	1.0000	
	SDL	Static	1.2000	
	EX	Static	0.3000	
	EY	Static	-1.0000	
COMB10	ADD	DL	Static	1.2000
	LL	Static	1.0000	
	SDL	Static	1.2000	
	EX	Static	-0.3000	
	EY	Static	-1.0000	
COMB11	ADD	DL	Static	0.9000
	SDL	Static	0.9000	
	EX	Static	1.0000	
	EY	Static	0.3000	
COMB12	ADD	DL	Static	0.9000
	SDL	Static	0.9000	
	EX	Static	1.0000	
	EY	Static	-0.3000	
COMB13	ADD	DL	Static	0.9000
	SDL	Static	0.9000	
	EX	Static	-1.0000	
	EY	Static	0.3000	
COMB14	ADD	DL	Static	0.9000
	SDL	Static	0.9000	
	EX	Static	-1.0000	
	EY	Static	-0.3000	
COMB15	ADD	DL	Static	0.9000
	SDL	Static	0.9000	
	EX	Static	0.3000	
	EY	Static	1.0000	
COMB16	ADD	DL	Static	0.9000
	SDL	Static	0.9000	
	EX	Static	-0.3000	
	EY	Static	1.0000	
COMB17	ADD	DL	Static	0.9000
	SDL	Static	0.9000	
	EX	Static	0.3000	
	EY	Static	-1.0000	
COMB18	ADD	DL	Static	0.9000
	SDL	Static	0.9000	
	EX	Static	-0.3000	
	EY	Static	-1.0000	
COMB19	ENVE	COMB1	Combo	1.0000
	COMB2	Combo	1.0000	

	COMB3	Combo		1.0000
	COMB4	Combo		1.0000
	COMB5	Combo		1.0000
	COMB6	Combo		1.0000
	COMB7	Combo		1.0000
	COMB8	Combo		1.0000
	COMB9	Combo		1.0000
	COMB10	Combo		1.0000
	COMB11	Combo		1.0000
	COMB12	Combo		1.0000
	COMB13	Combo		1.0000
	COMB14	Combo		1.0000
	COMB15	Combo		1.0000
	COMB16	Combo		1.0000
	COMB17	Combo		1.0000
	COMB18	Combo		1.0000
DWAL1	ADD	DL	Static	1.4000
	SDL	Static		1.4000
DWAL2	ADD	DL	Static	1.4000
	LL	Static		1.7000
	SDL	Static		1.4000
DWAL3	ADD	DL	Static	1.5400
	LL	Static		0.5500
	SDL	Static		1.5400
	EX	Static		1.6500
DWAL4	ADD	DL	Static	1.5400
	LL	Static		0.5500
	SDL	Static		1.5400
	EX	Static		-1.6500
DWAL5	ADD	DL	Static	1.5400
	LL	Static		0.5500
	SDL	Static		1.5400
	EY	Static		1.6500
DWAL6	ADD	DL	Static	1.5400
	LL	Static		0.5500
	SDL	Static		1.5400
	EY	Static		-1.6500
DWAL7	ADD	DL	Static	0.7700
	SDL	Static		0.7700
	EX	Static		1.6500
DWAL8	ADD	DL	Static	0.7700
	SDL	Static		0.7700
	EX	Static		-1.6500
DWAL9	ADD	DL	Static	0.7700
	SDL	Static		0.7700
	EY	Static		1.6500
DWAL10	ADD	DL	Static	0.7700
	SDL	Static		0.7700
	EY	Static		-1.6500
DWAL11	ADD	DL	Static	1.5400
	LL	Static		0.5500
	SDL	Static		1.5400
	SNI2002	Spectra		1.6500
DWAL12	ADD	DL	Static	0.7700
	SDL	Static		0.7700

	SNI2002	Spectra	1.6500	
COMBGRAV	ADD	DL	Static	1.2000
	SDL	Static	1.2000	
	LL	Static	1.0000	
2EX1	ADD	EX	Static	2.0000
2EX2	ADD	EX	Static	-2.0000
COMBGSRY1	ADD	DL	Static	1.2000
	SDL	Static	1.2000	
	LL	Static	1.0000	
	EY	Static	-2.0000	
COMBGSRY2	ADD	DL	Static	1.2000
	SDL	Static	1.2000	
	LL	Static	1.0000	
	EY	Static	2.0000	
COMBGSRX1	ADD	DL	Static	1.2000
	SDL	Static	1.2000	
	LL	Static	1.0000	
	EX	Static	-2.0000	
COMBGSRX2	ADD	DL	Static	1.2000
	SDL	Static	1.2000	
	LL	Static	1.0000	
	EX	Static	2.0000	
2EY1	ADD	EY	Static	2.0000
2EY2	ADD	EY	Static	-2.0000

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A U T O S E I S M I C U S E R L O A D S
Case: EY

AUTO SEISMIC INPUT DATA

Additional Eccentricity = 5%

SPECIFIED AUTO SEISMIC LOADS AT DIAPHRAGM CENTER OF MASS

STORY	DIAPHRAGM	FX	FY	MZ
DAK RUANG L	D10	0.00	368.71	0.000
ATAP	D9	0.00	2038.84	0.000
LANTAI 8	D8	0.00	2270.75	0.000
LANTAI 7	D7	0.00	1984.27	0.000
LANTAI 6	D6	0.00	1696.49	0.000
LANTAI 5	D5	0.00	1439.45	0.000
LANTAI 4	D4	0.00	1173.45	0.000
LANTAI 3	D3	0.00	872.56	0.000
LANTAI 2	D2	0.00	576.79	0.000
LANTAI 1	D1	0.00	235.66	0.000

AUTO SEISMIC CALCULATION RESULTS

AUTO SEISMIC STORY FORCES

STORY	FX	FY	FZ	MX	MY	MZ
DAK RUANG L (Forces reported at X = 55.4094, Y = 12.0000, Z = 39.6000)						
	0.00	368.71	0.00	0.000	0.000	1179.861
ATAP (Forces reported at X = 47.8112, Y = 12.0628, Z = 35.6000)						
	0.00	2038.84	0.00	0.000	0.000	9684.510
LANTAI 8 (Forces reported at X = 46.2799, Y = 12.0396, Z = 31.6000)						
	0.00	2270.75	0.00	0.000	0.000	10786.083
LANTAI 7 (Forces reported at X = 46.2982, Y = 12.0378, Z = 27.6000)						
	0.00	1984.27	0.00	0.000	0.000	9425.293
LANTAI 6 (Forces reported at X = 46.2990, Y = 12.0381, Z = 23.6000)						
	0.00	1696.49	0.00	0.000	0.000	8058.316
LANTAI 5 (Forces reported at X = 46.3206, Y = 12.0414, Z = 19.6000)						
	0.00	1439.45	0.00	0.000	0.000	6837.364
LANTAI 4 (Forces reported at X = 46.3412, Y = 12.0446, Z = 15.6000)						
	0.00	1173.45	0.00	0.000	0.000	5573.878
LANTAI 3 (Forces reported at X = 46.3412, Y = 12.0446, Z = 11.6000)						
	0.00	872.56	0.00	0.000	0.000	4144.679
LANTAI 2 (Forces reported at X = 46.3482, Y = 12.0463, Z = 7.6000)						
	0.00	576.79	0.00	0.000	0.000	2739.753
LANTAI 1 (Forces reported at X = 46.3029, Y = 12.0550, Z = 3.1000)						
	0.00	235.66	0.00	0.000	0.000	1119.383

AUTOSEISMIC DIAPHRAGM FORCES

STORY	DIAPHRAGM	FX	FY	FZ	MX	MY	MZ
DAK RUANG L	D10 (Forces reported at X = 55.4094, Y = 12.0000, Z = 39.6000)						
		0.00	368.71	0.00	0.000	0.000	1179.861
ATAP	D9 (Forces reported at X = 47.8112, Y = 12.0628, Z = 35.6000)						
		0.00	2038.84	0.00	0.000	0.000	9684.510
LANTAI 8	D8 (Forces reported at X = 46.2799, Y = 12.0396, Z = 31.6000)						
		0.00	2270.75	0.00	0.000	0.000	10786.083
LANTAI 7	D7 (Forces reported at X = 46.2982, Y = 12.0378, Z = 27.6000)						
		0.00	1984.27	0.00	0.000	0.000	9425.293
LANTAI 6	D6 (Forces reported at X = 46.2990, Y = 12.0381, Z = 23.6000)						
		0.00	1696.49	0.00	0.000	0.000	8058.316
LANTAI 5	D5 (Forces reported at X = 46.3206, Y = 12.0414, Z = 19.6000)						

0.00 1439.45 0.00 0.000 0.000 6837.364

LANTAI 4 D4 (Forces reported at X = 46.3412, Y = 12.0446, Z = 15.6000)
0.00 1173.45 0.00 0.000 0.000 5573.878

LANTAI 3 D3 (Forces reported at X = 46.3412, Y = 12.0446, Z = 11.6000)
0.00 872.56 0.00 0.000 0.000 4144.679

LANTAI 2 D2 (Forces reported at X = 46.3482, Y = 12.0463, Z = 7.6000)
0.00 576.79 0.00 0.000 0.000 2739.753

LANTAI 1 D1 (Forces reported at X = 46.3029, Y = 12.0550, Z = 3.1000)
0.00 235.66 0.00 0.000 0.000 1119.383

A U T O S E I S M I C U S E R L O A D S
Case: EX

AUTO SEISMIC INPUT DATA

Additional Eccentricity = 5%

SPECIFIED AUTO SEISMIC LOADS AT DIAPHRAGM CENTER OF MASS

STORY	DIAPHRAGM	FX	FY	MZ
DAK RUANG L	D10	368.71	0.00	0.000
ATAP	D9	2038.84	0.00	0.000
LANTAI 8	D8	2270.75	0.00	0.000
LANTAI 7	D7	1984.27	0.00	0.000
LANTAI 6	D6	1696.49	0.00	0.000
LANTAI 5	D5	1439.45	0.00	0.000
LANTAI 4	D4	1173.45	0.00	0.000
LANTAI 3	D3	872.56	0.00	0.000
LANTAI 2	D2	576.79	0.00	0.000
LANTAI 1	D1	235.66	0.00	0.000

AUTO SEISMIC CALCULATION RESULTS

AUTO SEISMIC STORY FORCES

STORY FX FY FZ MX MY MZ

DAK RUANG L (Forces reported at X = 55.4094, Y = 12.0000, Z = 39.6000)
368.71 0.00 0.00 0.000 0.000 -147.483

ATAP (Forces reported at X = 47.8112, Y = 12.0628, Z = 35.6000)
2038.84 0.00 0.00 0.000 0.000 -2446.613

LANTAI 8 (Forces reported at X = 46.2799, Y = 12.0396, Z = 31.6000)

2270.75 0.00 0.00 0.000 0.000 -2724.905

LANTAI 7 (Forces reported at X = 46.2982, Y = 12.0378, Z = 27.6000)
1984.27 0.00 0.00 0.000 0.000 -2381.127

LANTAI 6 (Forces reported at X = 46.2990, Y = 12.0381, Z = 23.6000)
1696.49 0.00 0.00 0.000 0.000 -2035.785

LANTAI 5 (Forces reported at X = 46.3206, Y = 12.0414, Z = 19.6000)
1439.45 0.00 0.00 0.000 0.000 -1727.334

LANTAI 4 (Forces reported at X = 46.3412, Y = 12.0446, Z = 15.6000)
1173.45 0.00 0.00 0.000 0.000 -1408.138

LANTAI 3 (Forces reported at X = 46.3412, Y = 12.0446, Z = 11.6000)
872.56 0.00 0.00 0.000 0.000 -1047.077

LANTAI 2 (Forces reported at X = 46.3482, Y = 12.0463, Z = 7.6000)
576.79 0.00 0.00 0.000 0.000 -692.148

LANTAI 1 (Forces reported at X = 46.3029, Y = 12.0550, Z = 3.1000)
235.66 0.00 0.00 0.000 0.000 -282.791

AUTOSEISMIC DIAPHRAGM FORCES

STORY	DIAPHRAGM	FX	FY	FZ	MX	MY	MZ

DAK RUANG L D10 (Forces reported at X = 55.4094, Y = 12.0000, Z = 39.6000)
368.71 0.00 0.00 0.000 0.000 -147.483

ATAP D9 (Forces reported at X = 47.8112, Y = 12.0628, Z = 35.6000)
2038.84 0.00 0.00 0.000 0.000 -2446.613

LANTAI 8 D8 (Forces reported at X = 46.2799, Y = 12.0396, Z = 31.6000)
2270.75 0.00 0.00 0.000 0.000 -2724.905

LANTAI 7 D7 (Forces reported at X = 46.2982, Y = 12.0378, Z = 27.6000)
1984.27 0.00 0.00 0.000 0.000 -2381.127

LANTAI 6 D6 (Forces reported at X = 46.2990, Y = 12.0381, Z = 23.6000)
1696.49 0.00 0.00 0.000 0.000 -2035.785

LANTAI 5 D5 (Forces reported at X = 46.3206, Y = 12.0414, Z = 19.6000)
1439.45 0.00 0.00 0.000 0.000 -1727.334

LANTAI 4 D4 (Forces reported at X = 46.3412, Y = 12.0446, Z = 15.6000)
1173.45 0.00 0.00 0.000 0.000 -1408.138

LANTAI 3 D3 (Forces reported at X = 46.3412, Y = 12.0446, Z = 11.6000)
872.56 0.00 0.00 0.000 0.000 -1047.077

LANTAI 2 D2 (Forces reported at X = 46.3482, Y = 12.0463, Z = 7.6000)
576.79 0.00 0.00 0.000 0.000 -692.148

LANTAI 1 D1 (Forces reported at X = 46.3029, Y = 12.0550, Z = 3.1000)

235.66	0.00	0.00	0.000	0.000	-282.791

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R E S P O N S E S P E C T R U M F U N C T I O N - U S E R

FUNCTION NAME: WG3SDG

PERIOD	ACCEL
0.0000	0.0719
0.2000	0.1719
0.6000	0.1719
0.7000	0.1473
0.8000	0.1289
0.9000	0.1146
1.0000	0.1031
1.1000	0.0938
1.2000	0.0859
1.3000	0.0793
1.4000	0.0737
1.5000	0.0688
1.6000	0.0645
1.7000	0.0607
1.8000	0.0573
1.9000	0.0543
2.0000	0.0516
2.1000	0.0491
2.2000	0.0469
2.3000	0.0448
2.4000	0.0430
2.5000	0.0413
2.6000	0.0397
2.7000	0.0382
2.8000	0.0368
2.9000	0.0356
3.0000	0.0344