

## Bab VI Kesimpulan

### 6.1 Praktik perancangan bangunan gedung

Dari hasil perancangan struktur bangunan gedung, diperoleh kesimpulan sebagai berikut:

1. Pada atap, gording C dirancang menggunakan profil baja C150x50x20x2,5 mm dan kuda-kuda menggunakan profil 2L50x50x5 mm.
2. Penggunaan tulangan pada perancangan pelat lantai dan pelat atap

Keterangan	Tulangan	
	Arah X	Arah Y
Atap A (2,75x3,6)m	P6-200	P6-200
Atap B (3,167x3,6)m	P6-200	P6-200
Lantai C (2,75x4,4)m	P8-250	P8-250
Lantai D (3,167x4,6)m	P8-200	P8-250
Lantai E (4,167x4,6)m	P8-150	P8-150

3. Pelat tangga dan pelat bordes menggunakan tulangan tumpuan D13-150, tulangan lapangan D13-100 tulangan susut P8-200 dengan tebal pelat 130 mm.
4. Balok bordes berukuran 450x300 mm dengan tulangan tumpuan 4D13 dan tulangan lapangan 5D13.
5. Penggunaan dimensi dan tulangan pada perancangan balok

Tipe Ukuran Balok (mm)	Tulangan Balok		Sengkang Balok	
	Tumpuan	Lapangan	Tumpuan	Lapangan
250 x 350	2D16	2D16	2P8 - 150	2P8 - 150
250 x 600	4D16	3D16	2P8 - 200	2P8 - 200
300 x 300	2D19	2D19	2P10 - 150	2P10 - 150
300 x 650	6D19	3D19	2P10 - 100	2P10 - 150

6. Dimensi dan penulangan Kolom terbesar berukuran 300x300 mm dan 300 x 650 mm dengan tulangan longitudinal 8D19 dan 12D22. tulangan transversal 2P10-150 dan 2P10-150

7. Pondasi menghasilkan ukuran penampang pondasi  $P1 = 2500 \times 2500$  mm dan  $P2 = 1600 \times 1600$  mm, dengan ketebalan pondasi  $P1 = 400$  mm,  $P2 = 300$  mm. Sementara itu, pondasi  $P1$  dan  $P2$  masing-masing menggunakan tulangan berukuran  $D19 - 200$  dan  $D13 - 200$ .

### **6.2 Praktik perancangan jalan**

Berdasarkan hasil survei kecepatan kendaraan, dapat disimpulkan bahwa untuk kedua ruas di Jalan Anggajaya II baik yang ke arah Utara maupun yang ke arah Selatan, jenis kendaraan yang mendominasi adalah mobil dan sepeda motor. Untuk ruas jalan arah Selatan ke Utara kecepatan motor dan mobil terpantau stabil dan tidak ada kemacetan yang parah. Kecepatan gerobak arah Selatan ke Utara adalah yang paling mendominasi dimana kecepatan gerobak mengalami puncaknya pada pukul 11.30 – 11.45 WIB dan pukul 12.15 – 12.30. Untuk ruas jalan arah Utara ke Selatan kecepatan motor dan mobil terpantau ramai lancar.

### **6.3 Praktik perancangan bangunan air**

Dari hasil perancangan bendung, diperoleh kesimpulan sebagai berikut:

1. Debit banjir ( $Q_{50}$ ) :  $661 \text{ m}^3/\text{det}$
2. Debit andalan :  $5,6149 \text{ m}^3/\text{det}$
3. Tipe bendung : Bendung Tetap (badan bendung dari beton)
4. Tipe puncak bendung : Bulat
5. Tipe kolam olak : USBR Tipe III
6. Elevasi Mercu Bendung : 109,3202 m
7. Tinggi Mercu Bendung : 3,470164 m
8. Jumlah pintu pembilas 2 buah dengan jumlah pilar 2 buah dan jumlah pintu saluran pengambilan 2 buah dimana tinggi pintu pengambilan 2,5 m.

#### **6.4 Praktik perancangan biaya dan waktu**

Pembangunan Gedung Pendidikan FKIK, Universitas Jenderal Soedirman Purwokerto ini beralamat di Jl. Dr. Gumbreg, Mersi, Kec. Purwokerto Tim., Kabupaten Banyumas, Jawa Tengah 53112. Untuk membuat proyek ini diperlukannya estimasi biaya agar proyek dapat berjalan sesuai dengan rencana. Dari rekapitulasi *Bill of Quantity* berdasarkan harga satuan bahan bangunan Provinsi Kepulauan Riau (Batam) total keseluruhan adalah Rp 10.864.877.793,53 sedangkan rekapitulasi *Bill of Quantity* berdasarkan data di lokasi proyek gedung totalnya adalah Rp 6.990.748.217,79.

Berdasarkan *schedule* yang telah dibuat, proyek pembangunan Gedung FKIK Universitas Jenderal Soedirman tiga lantai mulai dibangun tanggal 1 Januari 2018 berdurasi 9 bulan sehingga berakhir pada tanggal 1 Oktober 2018. Setelah dimodifikasi, didapat durasi pekerjaan selama 8,5 bulan dan berakhir pada 14 September 2018 dengan *cashflow* total untuk proyek ini sebesar Rp 9.054.064.827,94.

## REFERENSI

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# LAMPIRAN



Fungsi bangunan :  a. Kantor  b. Sekolah  
Kota untuk menentukan Respon Spektrum : PANDEGLANG  
Struktur berdiri diatas tanah : Sedang  
Mutu beton : a. 20 MPa  b. 25 MPa  
Mutu baja polos (diameter < 13mm) :  a. 240 MPa  b. 250 MPa  
Mutu baja sirip (diameter  $\geq$  13mm) : a. 370 MPa  b. 400 MPa

Buatlah perancangan :

1. Tangga, balok tangga/bordes
2. Pelat lantai
3. Balok anak, balok portal
4. Kolom

### III. PONDASI

Pondasi bangunan dari beton bertulang, dengan ketentuan :

Kedalaman tanah keras ( $d$ ) :  a. 1,75 m  b. 2,25 m  
Berat volume tanah : a. 15 kN/m<sup>3</sup>  b. 16 kN/m<sup>3</sup>  
Daya dukung tanah : a. 140 kN/m<sup>2</sup>  b. 180 kN/m<sup>2</sup>

Buatlah perancangan :

1. Pondasi telapak
2. Sloof

### KETENTUAN LAIN :

1. Peraturan Pembebanan menggunakan "Beban Minimum untuk Perancangan Bangunan Gedung dan Struktur Lain" SNI1727:2013
2. Peraturan Baja menggunakan "Spesifikasi Untuk Bangunan Gedung Baja Struktural" SNI 1729:2015
3. Peraturan Beton menggunakan "Tata Cara Perhitungan Struktur Beton Untuk Bangunan Gedung" SNI 2847:2013
4. Peraturan Gempa menggunakan "Tata Cara Perencanaan Ketahanan Gempa untuk Struktur Bangunan Gedung dan Non Gedung" SNI1726:2012
5. Tugas dikerjakan dalam kelompok, tiap kelompok maksimum 2 mahasiswa
6. Analisis struktur boleh dikerjakan dengan *software*, misalnya SAP2000 atau ETABS
7. Untuk perancangan beton digunakan beban gravitasi dan kombinasi dengan beban gempa 3 dimensi.
8. Hitungan ditulis tangan menggunakan kertas HVS kwarto (A4) yang diberi margin dengan jarak: kiri 2,5 cm, kanan 1,5 cm, atas 2,5 cm dan bawah 2 cm.
9. Gambar dibuat pada kertas HVS ukuran maksimum A3. Gambar yang dibuat meliputi :
  - a. Denah rencana atap skala 1 : 100
  - b. Detail kuda-kuda skala 1 : 25 dan sambungan kuda-kuda skala 1 : 5
  - c. Penulangan tangga dan pelat lantai skala 1 : 20
  - d. Penulangan balok anak dan portal skala 1 : 20
  - e. Denah rencana pondasi skala 1 : 100 dan detail pondasi skala 1 : 20

## Lampiran 2. Perhitungan Gaya batang pada kuda-kuda

No Batang	Panjang (mm)	Beban DL (KN)	Beban LL (KN)	Beban Angin Kiri Wki (KN)	Beban Angin Kanan Wka (KN)	1,4 DL	1,2 DL+ 1,6 LL	1,2 DL + 1,3 Wki + 0,5 LL	1,2 DL + 1,3 Wka + 0,5 LL	Gaya rencana (KN)
1	1875	46.068	6.045	5.262	-9.775	64.495	64.954	65.145	45.597	65.145
2	1875	39.658	5.200	4.316	-7.888	55.521	55.910	55.800	39.935	55.910
3	1875	33.057	4.330	3.364	-5.974	46.280	46.596	46.207	34.067	46.596
4	1875	31.181	4.081	1.687	-4.188	43.653	43.947	41.651	34.013	43.947
5	1875	31.181	4.081	1.686	-4.187	43.653	43.947	41.650	34.015	43.947
6	1875	33.057	4.330	0.502	-3.111	46.280	46.596	42.486	37.789	46.596
7	1875	39.658	5.200	-1.410	-2.162	55.521	55.910	48.357	47.379	55.910
8	1875	46.068	6.045	-3.301	-1.213	64.495	64.954	54.013	56.727	64.954
9	2165.05	-53.207	-6.982	0.840	4.944	-74.490	-75.020	-66.247	-60.912	-75.020
10	2165.05	-53.121	-6.970	0.294	6.032	-74.369	-74.897	-66.848	-59.389	-74.897
11	2165.05	-38.147	-4.997	1.930	2.758	-53.406	-53.772	-45.766	-44.690	-53.772
12	2165.05	-25.152	-3.286	1.641	1.513	-35.213	-35.440	-29.692	-29.859	-35.440
13	2165.05	-25.152	-3.286	0.815	2.338	-35.213	-35.440	-30.766	-28.786	-35.440
14	2165.05	-38.147	-4.997	2.755	1.933	-53.406	-53.772	-44.693	-45.762	-53.772
15	2165.05	-53.121	-6.970	6.033	0.294	-74.369	-74.897	-59.387	-66.848	-74.897
16	2165.05	-53.207	-6.982	4.950	0.834	-74.490	-75.020	-60.904	-66.255	-75.020
17	1082.5	-7.481	-0.986	-1.094	2.188	-10.473	-10.555	-10.892	-6.626	-10.892
18	2864.06	9.748	1.285	1.443	-2.873	13.647	13.754	14.216	8.605	14.216
19	2165	-5.630	-0.742	-0.823	1.645	-7.882	-7.943	-8.197	-4.989	-8.197
20	1951.56	-6.873	-0.906	-0.986	1.989	-9.622	-9.697	-9.982	-6.115	-9.982
21	2480.36	8.703	1.147	1.258	-2.527	12.184	12.279	12.653	7.732	12.653
22	1623.75	5.412	0.712	-0.837	-0.144	7.577	7.634	5.762	6.663	7.634
23	1623.75	-2.175	-0.288	-1.935	2.061	-3.045	-3.071	-5.270	-0.075	-5.270
24	2165.05	-13.001	-1.712	-0.256	2.347	-18.201	-18.340	-16.790	-13.406	-18.340
25	2864.06	2.862	0.379	2.562	-2.726	4.007	4.041	6.955	0.080	6.955
26	2165	17.309	2.283	-0.820	-1.516	24.233	24.424	20.846	19.942	24.424
27	2165	0.006	0.001	-0.002	0.001	0.009	0.009	0.005	0.009	0.009
28	2864.06	2.862	0.379	-1.802	1.638	4.007	4.041	1.281	5.753	5.753
29	2165.05	-13.001	-1.712	3.045	-0.955	-18.201	-18.340	-12.499	-17.699	-18.340
30	1623.75	-2.175	-0.288	1.364	-1.238	-3.045	-3.071	-0.981	-4.363	-4.363
31	1623.75	5.412	0.712	-0.839	-0.142	7.577	7.634	5.760	6.666	7.634
32	2480.36	8.703	1.147	-2.522	1.253	12.184	12.279	7.739	12.646	12.646
33	1951.56	-6.873	-0.906	1.992	-0.989	-9.622	-9.697	-6.111	-9.986	-9.986
34	2165	-5.630	-0.742	1.642	-0.819	-7.882	-7.943	-4.992	-8.192	-8.192
35	2864.06	9.748	1.285	-2.872	1.442	13.647	13.754	8.607	14.215	14.215
36	1082.5	-7.481	-0.986	2.186	-1.092	-10.473	-10.555	-6.628	-10.890	-10.890

**Lampiran 3.** Perhitungan Perencanaan balok menggunakan ETABS v 9.2

LOADING COMBINATIONS				
COMBO	CASE	SCALE		
COMBO	TYPE	CASE	TYPE	FACTOR
BALOK	ENVE	COMB1	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	
	COMB3	Combo	1.0000	
	COMB2	Combo	1.0000	

BEAM FORCES									
STORY	BEAM	LOAD	LOC	P	V2	V3	T	M2	M3
KDKD	B24	BALOK MAX							
		0.1500	0.00	-0.85	0.00	0.889	0.000	7.201	
		0.6400	0.00	4.08	0.00	0.889	0.000	6.410	
		1.1300	0.00	9.42	0.00	0.889	0.000	3.263	
		1.6200	0.00	17.50	0.00	0.889	0.000	-1.808	
		2.1100	0.00	29.50	0.00	0.889	0.000	-3.085	
		2.6000	0.00	41.50	0.00	0.889	0.000	-6.775	
KDKD	B24	BALOK MIN							
		0.1500	0.00	-18.50	0.00	-0.855	0.000	-13.771	
		0.6400	0.00	-11.08	0.00	-0.855	0.000	-6.694	
		1.1300	0.00	-4.78	0.00	-0.855	0.000	-2.965	
		1.6200	0.00	0.14	0.00	-0.855	0.000	-4.182	
		2.1100	0.00	5.07	0.00	-0.855	0.000	-15.697	
		2.6000	0.00	9.99	0.00	-0.855	0.000	-33.092	
KDKD	B27	BALOK MAX							
		0.1500	0.00	-10.00	0.00	0.857	0.000	-6.782	
		0.6400	0.00	-5.07	0.00	0.857	0.000	-3.089	
		1.1300	0.00	-0.15	0.00	0.857	0.000	-1.809	
		1.6200	0.00	4.78	0.00	0.857	0.000	3.263	
		2.1100	0.00	11.08	0.00	0.857	0.000	6.410	
		2.6000	0.00	18.50	0.00	0.857	0.000	7.200	

<b>KDKD</b>	<b>B27</b>	<b>BALOK MIN</b>						
		0.1500	0.00	-41.50	0.00	-0.889	0.000	-33.093
		0.6400	0.00	-29.50	0.00	-0.889	0.000	-15.699
		1.1300	0.00	-17.50	0.00	-0.889	0.000	-4.184
		1.6200	0.00	-9.42	0.00	-0.889	0.000	-2.963
		2.1100	0.00	-4.08	0.00	-0.889	0.000	-6.688
		2.6000	0.00	0.85	0.00	-0.889	0.000	-13.761
<b>KDKD</b>	<b>B108</b>	<b>BALOK MAX</b>						
		0.1500	0.00	-51.20	0.00	0.005	0.000	-34.615
		0.6342	0.00	-45.25	0.00	0.005	0.000	-11.265
		1.1184	0.00	-39.30	0.00	0.005	0.000	9.206
		1.6026	0.00	-33.36	0.00	0.005	0.000	30.317
		2.0868	0.00	-27.41	0.00	0.005	0.000	57.930
		2.5711	0.00	-21.47	0.00	0.005	0.000	86.637
		3.0553	0.00	-15.52	0.00	0.005	0.000	109.602
		3.5395	0.00	-9.57	0.00	0.005	0.000	126.825
		4.0237	0.00	-3.63	0.00	0.005	0.000	138.307
		4.5079	0.00	2.32	0.00	0.005	0.000	144.046
		4.9921	0.00	9.33	0.00	0.005	0.000	144.043
		5.4763	0.00	17.79	0.00	0.005	0.000	138.299
		5.9605	0.00	29.65	0.00	0.005	0.000	126.813
		6.4447	0.00	41.51	0.00	0.005	0.000	109.584
		6.9289	0.00	53.37	0.00	0.005	0.000	86.614
		7.4132	0.00	65.23	0.00	0.005	0.000	57.902
		7.8974	0.00	77.08	0.00	0.005	0.000	30.340
		8.3816	0.00	88.94	0.00	0.005	0.000	9.229
		8.8658	0.00	100.80	0.00	0.005	0.000	-11.240
		9.3500	0.00	112.66	0.00	0.005	0.000	-34.588
<b>KDKD</b>	<b>B108</b>	<b>BALOK MIN</b>						
		0.1500	0.00	-112.65	0.00	-0.001	0.000	-114.318
		0.6342	0.00	-100.79	0.00	-0.001	0.000	-66.913
		1.1184	0.00	-88.93	0.00	-0.001	0.000	-33.074
		1.6026	0.00	-77.07	0.00	-0.001	0.000	-6.663
		2.0868	0.00	-65.22	0.00	-0.001	0.000	13.178
		2.5711	0.00	-53.36	0.00	-0.001	0.000	30.139
		3.0553	0.00	-41.50	0.00	-0.001	0.000	44.221
		3.5395	0.00	-29.64	0.00	-0.001	0.000	55.424
		4.0237	0.00	-17.78	0.00	-0.001	0.000	63.747
		4.5079	0.00	-9.34	0.00	-0.001	0.000	69.192
		4.9921	0.00	-2.32	0.00	-0.001	0.000	69.191
		5.4763	0.00	3.62	0.00	-0.001	0.000	63.750
		5.9605	0.00	9.57	0.00	-0.001	0.000	55.429
		6.4447	0.00	15.51	0.00	-0.001	0.000	44.230
		6.9289	0.00	21.46	0.00	-0.001	0.000	30.151
		7.4132	0.00	27.41	0.00	-0.001	0.000	13.193
		7.8974	0.00	33.35	0.00	-0.001	0.000	-6.644
		8.3816	0.00	39.30	0.00	-0.001	0.000	-33.048
		8.8658	0.00	45.24	0.00	-0.001	0.000	-66.883
		9.3500	0.00	51.19	0.00	-0.001	0.000	-114.365
<b>ATP</b>	<b>B24</b>	<b>BALOK MAX</b>						
		0.1500	0.00	7.99	0.00	0.965	0.000	15.616
		0.6400	0.00	10.54	0.00	0.965	0.000	11.102
		1.1300	0.00	13.81	0.00	0.965	0.000	5.252
		1.6200	0.00	19.02	0.00	0.965	0.000	1.540
		2.1100	0.00	23.51	0.00	0.965	0.000	2.851
		2.6000	0.00	27.01	0.00	0.965	0.000	5.120

<b>ATP</b>	<b>B24</b>	<b>BALOK MIN</b>						
		0.1500	0.00	-20.77	0.00	-0.050	0.000	-23.237
		0.6400	0.00	-17.26	0.00	-0.050	0.000	-13.881
		1.1300	0.00	-12.84	0.00	-0.050	0.000	-6.555
		1.6200	0.00	-9.16	0.00	-0.050	0.000	-3.127
		2.1100	0.00	-5.96	0.00	-0.050	0.000	-13.587
		2.6000	0.00	-3.41	0.00	-0.050	0.000	-26.004
<b>ATP</b>	<b>B27</b>	<b>BALOK MAX</b>						
		0.1500	0.00	3.39	0.00	0.051	0.000	5.100
		0.6400	0.00	5.94	0.00	0.051	0.000	2.841
		1.1300	0.00	9.14	0.00	0.051	0.000	1.536
		1.6200	0.00	12.82	0.00	0.051	0.000	5.259
		2.1100	0.00	17.24	0.00	0.051	0.000	11.114
		2.6000	0.00	20.74	0.00	0.051	0.000	15.631
<b>ATP</b>	<b>B27</b>	<b>BALOK MIN</b>						
		0.1500	0.00	-27.02	0.00	-0.963	0.000	-26.009
		0.6400	0.00	-23.52	0.00	-0.963	0.000	-13.587
		1.1300	0.00	-19.03	0.00	-0.963	0.000	-3.122
		1.6200	0.00	-13.82	0.00	-0.963	0.000	-6.542
		2.1100	0.00	-10.55	0.00	-0.963	0.000	-13.857
		2.6000	0.00	-7.99	0.00	-0.963	0.000	-23.202
<b>ATP</b>	<b>B108</b>	<b>BALOK MAX</b>						
		0.1500	0.00	-41.22	0.00	11.692	0.000	-20.672
		0.5810	0.00	-38.05	0.00	11.692	0.000	-3.573
		1.0119	0.00	-34.38	0.00	11.692	0.000	12.052
		1.4429	0.00	-30.21	0.00	11.692	0.000	25.987
		1.8738	0.00	-25.77	0.00	11.692	0.000	43.883
		2.3048	0.00	-21.78	0.00	11.692	0.000	60.542
		2.7357	0.00	-18.28	0.00	11.692	0.000	74.968
		3.1667	0.00	-15.28	0.00	11.692	0.000	87.487
		3.1667	0.00	-4.85	0.00	0.296	0.000	87.604
		3.6190	0.00	-1.69	0.00	0.296	0.000	91.178
		4.0714	0.00	2.03	0.00	0.296	0.000	94.601
		4.5238	0.00	6.28	0.00	0.296	0.000	97.777
		4.9762	0.00	11.90	0.00	0.296	0.000	97.780
		5.4286	0.00	17.83	0.00	0.296	0.000	94.609
		5.8810	0.00	22.93	0.00	0.296	0.000	91.187
		6.3333	0.00	27.20	0.00	0.296	0.000	87.617
		6.3333	0.00	44.80	0.00	-0.847	0.000	87.500
		6.7643	0.00	48.85	0.00	-0.847	0.000	74.985
		7.1952	0.00	53.65	0.00	-0.847	0.000	60.564
		7.6262	0.00	59.21	0.00	-0.847	0.000	43.909
		8.0571	0.00	65.44	0.00	-0.847	0.000	26.007
		8.4881	0.00	71.26	0.00	-0.847	0.000	12.075
		8.9190	0.00	76.33	0.00	-0.847	0.000	-3.546
		9.3500	0.00	80.64	0.00	-0.847	0.000	-20.643
<b>ATP</b>	<b>B108</b>	<b>BALOK MIN</b>						
		0.1500	0.00	-80.65	0.00	0.848	0.000	-128.203
		0.5810	0.00	-76.34	0.00	0.848	0.000	-94.348
		1.0119	0.00	-71.27	0.00	0.848	0.000	-62.514
		1.4429	0.00	-65.45	0.00	0.848	0.000	-33.025
		1.8738	0.00	-59.22	0.00	0.848	0.000	-12.019
		2.3048	0.00	-53.66	0.00	0.848	0.000	5.844
		2.7357	0.00	-48.85	0.00	0.848	0.000	22.092
		3.1667	0.00	-44.81	0.00	0.848	0.000	36.940
		3.1667	0.00	-27.21	0.00	-0.292	0.000	36.932

		3.6190	0.00	-22.94	0.00	-0.292	0.000	46.232
		4.0714	0.00	-17.84	0.00	-0.292	0.000	53.976
		4.5238	0.00	-11.91	0.00	-0.292	0.000	57.613
		4.9762	0.00	-6.29	0.00	-0.292	0.000	57.611
		5.4286	0.00	-2.03	0.00	-0.292	0.000	53.981
		5.8810	0.00	1.68	0.00	-0.292	0.000	46.239
		6.3333	0.00	4.84	0.00	-0.292	0.000	36.943
		6.3333	0.00	15.27	0.00	-11.684	0.000	36.951
		6.7643	0.00	18.27	0.00	-11.684	0.000	22.105
		7.1952	0.00	21.77	0.00	-11.684	0.000	5.860
		7.6262	0.00	25.76	0.00	-11.684	0.000	-12.000
		8.0571	0.00	30.20	0.00	-11.684	0.000	-32.995
		8.4881	0.00	34.37	0.00	-11.684	0.000	-62.479
		8.9190	0.00	38.04	0.00	-11.684	0.000	-94.310
		9.3500	0.00	41.22	0.00	-11.684	0.000	-128.161
<b>LT3</b>	<b>B24</b>	<b>BALOK MAX</b>						
		0.1500	0.00	14.37	0.00	0.472	0.000	23.997
		0.6050	0.00	16.77	0.00	0.472	0.000	17.338
		1.0600	0.00	21.29	0.00	0.472	0.000	9.283
		1.5150	0.00	30.63	0.00	0.472	0.000	2.080
		1.9700	0.00	38.41	0.00	0.472	0.000	7.410
		2.4250	0.00	43.20	0.00	0.472	0.000	10.898
<b>LT3</b>	<b>B24</b>	<b>BALOK MIN</b>						
		0.1500	0.00	-30.31	0.00	-0.900	0.000	-28.841
		0.6050	0.00	-26.67	0.00	-0.900	0.000	-16.119
		1.0600	0.00	-20.30	0.00	-0.900	0.000	-5.854
		1.5150	0.00	-14.36	0.00	-0.900	0.000	-2.476
		1.9700	0.00	-9.38	0.00	-0.900	0.000	-18.295
		2.4250	0.00	-6.26	0.00	-0.900	0.000	-36.973
<b>LT3</b>	<b>B27</b>	<b>BALOK MAX</b>						
		0.3250	0.00	6.07	0.00	0.907	0.000	10.679
		0.7800	0.00	9.19	0.00	0.907	0.000	7.276
		1.2350	0.00	14.17	0.00	0.907	0.000	2.031
		1.6900	0.00	20.11	0.00	0.907	0.000	9.330
		2.1450	0.00	26.43	0.00	0.907	0.000	17.522
		2.6000	0.00	30.07	0.00	0.907	0.000	24.251
<b>LT3</b>	<b>B27</b>	<b>BALOK MIN</b>						
		0.3250	0.00	-43.49	0.00	-0.478	0.000	-37.316
		0.7800	0.00	-38.70	0.00	-0.478	0.000	-18.506
		1.2350	0.00	-30.92	0.00	-0.478	0.000	-2.556
		1.6900	0.00	-21.58	0.00	-0.478	0.000	-5.811
		2.1450	0.00	-17.01	0.00	-0.478	0.000	-15.997
		2.6000	0.00	-14.60	0.00	-0.478	0.000	-28.573
<b>LT3</b>	<b>B103</b>	<b>BALOK MAX</b>						
		0.0000	0.00	-25.19	0.00	-0.006	0.000	-22.126
		0.4889	0.00	-22.93	0.00	-0.006	0.000	-10.321
		0.9778	0.00	-19.60	0.00	-0.006	0.000	0.120
		1.4667	0.00	-15.20	0.00	-0.006	0.000	21.936
		1.9556	0.00	-9.73	0.00	-0.006	0.000	45.636
		2.4444	0.00	0.53	0.00	-0.006	0.000	61.291
		2.9333	0.00	31.90	0.00	-0.006	0.000	56.565
		3.4222	0.00	74.44	0.00	-0.006	0.000	30.478
		3.9111	0.00	114.70	0.00	-0.006	0.000	-4.633
		4.4000	0.00	152.67	0.00	-0.006	0.000	-23.576

<b>LT3</b>	<b>B103</b>	<b>BALOK MIN</b>						
		0.0000	0.00	-73.73	0.00	-0.047	0.000	-74.174
		0.4889	0.00	-69.41	0.00	-0.047	0.000	-39.090
		0.9778	0.00	-62.79	0.00	-0.047	0.000	-7.002
		1.4667	0.00	-53.89	0.00	-0.047	0.000	5.572
		1.9556	0.00	-42.69	0.00	-0.047	0.000	13.724
		2.4444	0.00	-12.95	0.00	-0.047	0.000	17.544
		2.9333	0.00	9.85	0.00	-0.047	0.000	13.953
		3.4222	0.00	22.23	0.00	-0.047	0.000	4.047
		3.9111	0.00	33.54	0.00	-0.047	0.000	-16.296
		4.4000	0.00	43.78	0.00	-0.047	0.000	-81.302
<b>LT3</b>	<b>B108</b>	<b>BALOK MAX</b>						
		0.3250	0.00	-72.59	0.00	8.407	0.000	-39.565
		0.7986	0.00	-68.25	0.00	8.407	0.000	-6.135
		1.2722	0.00	-61.90	0.00	8.407	0.000	24.763
		1.7458	0.00	-53.77	0.00	8.407	0.000	52.190
		2.2194	0.00	-46.79	0.00	8.407	0.000	92.472
		2.6931	0.00	-41.82	0.00	8.407	0.000	130.023
		3.1667	0.00	-38.85	0.00	8.407	0.000	164.802
		3.1667	0.00	0.32	0.00	0.572	0.000	163.759
		3.6190	0.00	3.11	0.00	0.572	0.000	166.918
		4.0714	0.00	7.73	0.00	0.572	0.000	167.612
		4.5238	0.00	14.18	0.00	0.572	0.000	169.279
		4.9762	0.00	24.16	0.00	0.572	0.000	169.184
		5.4286	0.00	34.05	0.00	0.572	0.000	168.077
		5.8810	0.00	40.98	0.00	0.572	0.000	167.401
		6.3333	0.00	44.95	0.00	0.572	0.000	164.260
		6.3333	0.00	107.55	0.00	12.635	0.000	164.876
		6.8069	0.00	111.78	0.00	12.635	0.000	130.297
		7.2806	0.00	119.25	0.00	12.635	0.000	92.948
		7.7542	0.00	129.96	0.00	12.635	0.000	52.657
		8.2278	0.00	142.52	0.00	12.635	0.000	25.293
		8.7014	0.00	152.21	0.00	12.635	0.000	-5.542
		9.1750	0.00	158.67	0.00	12.635	0.000	-38.910
<b>LT3</b>	<b>B108</b>	<b>BALOK MIN</b>						
		0.3250	0.00	-159.69	0.00	-12.861	0.000	-268.654
		0.7986	0.00	-153.24	0.00	-12.861	0.000	-194.422
		1.2722	0.00	-143.54	0.00	-12.861	0.000	-124.015
		1.7458	0.00	-130.99	0.00	-12.861	0.000	-58.947
		2.2194	0.00	-120.28	0.00	-12.861	0.000	-16.123
		2.6931	0.00	-112.80	0.00	-12.861	0.000	22.296
		3.1667	0.00	-108.57	0.00	-12.861	0.000	58.835
		3.1667	0.00	-45.01	0.00	-0.032	0.000	58.297
		3.6190	0.00	-41.04	0.00	-0.032	0.000	74.004
		4.0714	0.00	-34.11	0.00	-0.032	0.000	88.036
		4.5238	0.00	-24.22	0.00	-0.032	0.000	99.563
		4.9762	0.00	-14.27	0.00	-0.032	0.000	99.149
		5.4286	0.00	-7.82	0.00	-0.032	0.000	87.670
		5.8810	0.00	-3.20	0.00	-0.032	0.000	73.685
		6.3333	0.00	-0.41	0.00	-0.032	0.000	58.024
		6.3333	0.00	38.72	0.00	-8.579	0.000	58.501
		6.8069	0.00	41.68	0.00	-8.579	0.000	22.308
		7.2806	0.00	46.66	0.00	-8.579	0.000	-15.764
		7.7542	0.00	53.64	0.00	-8.579	0.000	-58.032
		8.2278	0.00	61.76	0.00	-8.579	0.000	-122.615
		8.7014	0.00	68.12	0.00	-8.579	0.000	-192.537
		9.1750	0.00	72.46	0.00	-8.579	0.000	-266.283

<b>LT2</b>	<b>B24</b>	<b>BALOK MAX</b>						
		0.1500	0.00	16.55	0.00	1.265	0.000	26.389
		0.6050	0.00	18.96	0.00	1.265	0.000	18.877
		1.0600	0.00	23.22	0.00	1.265	0.000	10.259
		1.5150	0.00	31.87	0.00	1.265	0.000	7.356
		1.9700	0.00	39.65	0.00	1.265	0.000	14.260
		2.4250	0.00	44.44	0.00	1.265	0.000	20.270
<b>LT2</b>	<b>B24</b>	<b>BALOK MIN</b>						
		0.1500	0.00	-36.79	0.00	-1.501	0.000	-32.364
		0.6050	0.00	-33.15	0.00	-1.501	0.000	-16.834
		1.0600	0.00	-26.52	0.00	-1.501	0.000	-4.051
		1.5150	0.00	-19.90	0.00	-1.501	0.000	-3.020
		1.9700	0.00	-14.92	0.00	-1.501	0.000	-18.457
		2.4250	0.00	-11.80	0.00	-1.501	0.000	-37.703
<b>LT2</b>	<b>B27</b>	<b>BALOK MAX</b>						
		0.3250	0.00	11.56	0.00	1.508	0.000	20.011
		0.7800	0.00	14.69	0.00	1.508	0.000	14.109
		1.2350	0.00	19.66	0.00	1.508	0.000	7.296
		1.6900	0.00	26.20	0.00	1.508	0.000	10.349
		2.1450	0.00	32.83	0.00	1.508	0.000	19.178
		2.6000	0.00	36.47	0.00	1.508	0.000	26.785
<b>LT2</b>	<b>B27</b>	<b>BALOK MIN</b>						
		0.3250	0.00	-44.87	0.00	-1.268	0.000	-38.188
		0.7800	0.00	-40.09	0.00	-1.268	0.000	-18.746
		1.2350	0.00	-32.31	0.00	-1.268	0.000	-3.094
		1.6900	0.00	-23.56	0.00	-1.268	0.000	-3.970
		2.1450	0.00	-19.30	0.00	-1.268	0.000	-16.659
		2.6000	0.00	-16.89	0.00	-1.268	0.000	-31.980
<b>LT2</b>	<b>B108</b>	<b>BALOK MAX</b>						
		0.3250	0.00	-66.37	0.00	12.375	0.000	-20.556
		0.7986	0.00	-62.03	0.00	12.375	0.000	9.929
		1.2722	0.00	-55.68	0.00	12.375	0.000	37.882
		1.7458	0.00	-47.55	0.00	12.375	0.000	62.363
		2.2194	0.00	-40.57	0.00	12.375	0.000	95.067
		2.6931	0.00	-35.60	0.00	12.375	0.000	129.793
		3.1667	0.00	-32.63	0.00	12.375	0.000	161.748
		3.1667	0.00	6.65	0.00	0.490	0.000	160.660
		3.6190	0.00	9.43	0.00	0.490	0.000	160.963
		4.0714	0.00	14.06	0.00	0.490	0.000	158.802
		4.5238	0.00	20.51	0.00	0.490	0.000	156.355
		4.9762	0.00	30.48	0.00	0.490	0.000	156.270
		5.4286	0.00	40.36	0.00	0.490	0.000	159.700
		5.8810	0.00	47.29	0.00	0.490	0.000	161.910
		6.3333	0.00	51.26	0.00	0.490	0.000	161.653
		6.3333	0.00	114.08	0.00	16.665	0.000	162.270
		6.8069	0.00	118.32	0.00	16.665	0.000	130.422
		7.2806	0.00	125.79	0.00	16.665	0.000	95.803
		7.7542	0.00	136.50	0.00	16.665	0.000	62.887
		8.2278	0.00	149.05	0.00	16.665	0.000	38.341
		8.7014	0.00	158.75	0.00	16.665	0.000	10.323
		9.1750	0.00	165.20	0.00	16.665	0.000	-20.228
<b>LT2</b>	<b>B108</b>	<b>BALOK MIN</b>						
		0.3250	0.00	-166.59	0.00	-16.802	0.000	-311.161
		0.7986	0.00	-160.14	0.00	-16.802	0.000	-233.661
		1.2722	0.00	-150.44	0.00	-16.802	0.000	-159.985

		1.7458	0.00	-137.89	0.00	-16.802	0.000	-91.648
		2.2194	0.00	-127.18	0.00	-16.802	0.000	-40.922
		2.6931	0.00	-119.71	0.00	-16.802	0.000	0.644
		3.1667	0.00	-115.48	0.00	-16.802	0.000	40.332
		3.1667	0.00	-51.40	0.00	0.031	0.000	39.885
		3.6190	0.00	-47.43	0.00	0.031	0.000	58.479
		4.0714	0.00	-40.50	0.00	0.031	0.000	75.396
		4.5238	0.00	-30.61	0.00	0.031	0.000	89.809
		4.9762	0.00	-20.65	0.00	0.031	0.000	89.020
		5.4286	0.00	-14.20	0.00	0.031	0.000	74.686
		5.8810	0.00	-9.57	0.00	0.031	0.000	57.846
		6.3333	0.00	-6.79	0.00	0.031	0.000	39.332
		6.3333	0.00	32.77	0.00	-12.576	0.000	39.819
		6.8069	0.00	35.73	0.00	-12.576	0.000	0.617
		7.2806	0.00	40.71	0.00	-12.576	0.000	-40.464
		7.7542	0.00	47.69	0.00	-12.576	0.000	-90.384
		8.2278	0.00	55.82	0.00	-12.576	0.000	-158.063
		8.7014	0.00	62.17	0.00	-12.576	0.000	-231.080
		9.1750	0.00	66.51	0.00	-12.576	0.000	-307.922
<b>BASE</b>	<b>B24</b>	<b>BALOK MAX</b>						
		0.0000	0.00	32.86	0.00	2.231	0.001	30.579
		0.4583	0.00	34.41	0.00	2.231	0.000	15.308
		0.9167	0.00	35.97	0.00	2.231	0.000	4.433
		1.3750	0.00	37.52	0.00	2.231	0.003	21.994
		1.8333	0.00	39.15	0.00	2.231	0.007	38.606
		2.2917	0.00	41.23	0.00	2.231	0.012	54.266
		2.7500	0.00	43.30	0.00	2.231	0.016	68.977
<b>BASE</b>	<b>B24</b>	<b>BALOK MIN</b>						
		0.0000	0.00	-43.50	-0.01	-2.145	-0.010	-33.541
		0.4583	0.00	-41.43	-0.01	-2.145	-0.006	-14.225
		0.9167	0.00	-39.35	-0.01	-2.145	-0.001	-0.967
		1.3750	0.00	-37.28	-0.01	-2.145	0.000	-17.809
		1.8333	0.00	-35.28	-0.01	-2.145	-0.001	-35.364
		2.2917	0.00	-33.72	-0.01	-2.145	-0.001	-53.632
		2.7500	0.00	-32.17	-0.01	-2.145	-0.001	-72.613
<b>BASE</b>	<b>B27</b>	<b>BALOK MAX</b>						
		0.0000	0.00	31.79	0.00	2.128	0.001	68.157
		0.4583	0.00	33.35	0.00	2.128	0.001	53.669
		0.9167	0.00	34.90	0.00	2.128	0.001	38.231
		1.3750	0.00	36.79	0.00	2.128	0.000	21.846
		1.8333	0.00	38.87	0.00	2.128	0.001	4.511
		2.2917	0.00	40.94	0.00	2.128	0.006	15.477
		2.7500	0.00	43.01	0.00	2.128	0.010	30.806
<b>BASE</b>	<b>B27</b>	<b>BALOK MIN</b>						
		0.0000	0.00	-43.67	-0.01	-2.212	-0.016	-73.113
		0.4583	0.00	-41.60	-0.01	-2.212	-0.012	-54.012
		0.9167	0.00	-39.53	-0.01	-2.212	-0.007	-35.623
		1.3750	0.00	-37.79	-0.01	-2.212	-0.003	-17.950
		1.8333	0.00	-36.23	-0.01	-2.212	0.000	-0.989
		2.2917	0.00	-34.68	-0.01	-2.212	0.000	-13.993
		2.7500	0.00	-33.12	-0.01	-2.212	-0.001	-33.024
<b>BASE</b>	<b>B108</b>	<b>BALOK MAX</b>						
		0.0000	0.00	0.01	0.00	0.013	0.001	6.670
		0.5000	0.00	0.01	0.00	0.013	0.000	10.910
		1.0000	0.00	0.01	0.00	0.013	0.000	14.302

		1.5000	0.00	0.01	0.00	0.013	0.000	16.845
		2.0000	0.00	0.01	0.00	0.013	0.000	18.541
		2.5000	0.00	0.01	0.00	0.013	0.000	20.515
		3.0000	0.00	0.85	0.00	0.013	0.000	21.649
		3.5000	0.00	2.55	0.00	0.013	0.000	21.652
		4.0000	0.00	4.24	0.00	0.013	0.000	20.524
		4.5000	0.00	5.94	0.00	0.013	0.000	19.582
		5.0000	0.00	7.91	0.00	0.013	0.000	19.601
		5.5000	0.00	10.17	0.00	0.013	0.001	20.576
		6.0000	0.00	12.43	0.00	0.013	0.002	21.734
		6.5000	0.00	14.70	0.00	0.013	0.002	21.763
		7.0000	0.00	16.96	0.00	0.013	0.003	20.663
		7.5000	0.00	19.22	0.00	0.013	0.004	18.677
		8.0000	0.00	21.48	0.00	0.013	0.005	17.007
		8.5000	0.00	23.74	0.00	0.013	0.005	14.489
		9.0000	0.00	26.01	0.00	0.013	0.006	11.123
		9.5000	0.00	28.27	0.00	0.013	0.007	6.908
<b>BASE</b>	<b>B108</b>	<b>BALOK MIN</b>						
		0.0000	0.00	-28.34	0.00	-0.006	-0.007	-66.853
		0.5000	0.00	-26.07	0.00	-0.006	-0.006	-53.250
		1.0000	0.00	-23.81	0.00	-0.006	-0.005	-40.779
		1.5000	0.00	-21.55	0.00	-0.006	-0.005	-29.438
		2.0000	0.00	-19.29	0.00	-0.006	-0.004	-19.229
		2.5000	0.00	-17.03	0.00	-0.006	-0.003	-11.278
		3.0000	0.00	-14.76	0.00	-0.006	-0.002	-4.466
		3.5000	0.00	-12.50	0.00	-0.006	-0.002	-1.807
		4.0000	0.00	-10.24	0.00	-0.006	-0.001	-1.810
		4.5000	0.00	-7.98	0.00	-0.006	0.000	-1.814
		5.0000	0.00	-5.99	0.00	-0.006	0.000	-1.818
		5.5000	0.00	-4.29	0.00	-0.006	0.000	-1.822
		6.0000	0.00	-2.60	0.00	-0.006	0.000	-1.826
		6.5000	0.00	-0.90	0.00	-0.006	0.000	-4.371
		7.0000	0.00	0.01	0.00	-0.006	0.000	-11.158
		7.5000	0.00	0.01	0.00	-0.006	0.000	-19.038
		8.0000	0.00	0.01	0.00	-0.006	0.000	-29.214
		8.5000	0.00	0.01	0.00	-0.006	0.000	-40.521
		9.0000	0.00	0.01	0.00	-0.006	0.000	-52.958
		9.5000	0.00	0.01	0.00	-0.006	-0.001	-66.527

**Lampiran 4.** Perhitungan Perencanaan Kolom menggunakan ETABS v 9.2

COMBO					CASE		SCALE	
COMBO	TYPE	CASE	TYPE	FACTOR				
<b>KOLOM</b>	<b>ENVE</b>	<b>COMB1</b>	<b>Combo</b>	<b>1.4400</b>				
	COMB4	Combo	1.4400					
	COMB5	Combo	1.4400					
	COMB6	Combo	1.4400					
	COMB7	Combo	1.4400					
	COMB8	Combo	1.4400					
	COMB9	Combo	1.4400					
	COMB10	Combo	1.4400					
	COMB11	Combo	1.4400					
	COMB12	Combo	1.4400					
	COMB13	Combo	1.4400					
	COMB14	Combo	1.4400					
	COMB15	Combo	1.4400					
	COMB16	Combo	1.4400					
	COMB17	Combo	1.4400					
	COMB18	Combo	1.4400					
	COMB3	Combo	1.4400					
	COMB2	Combo	1.4400					

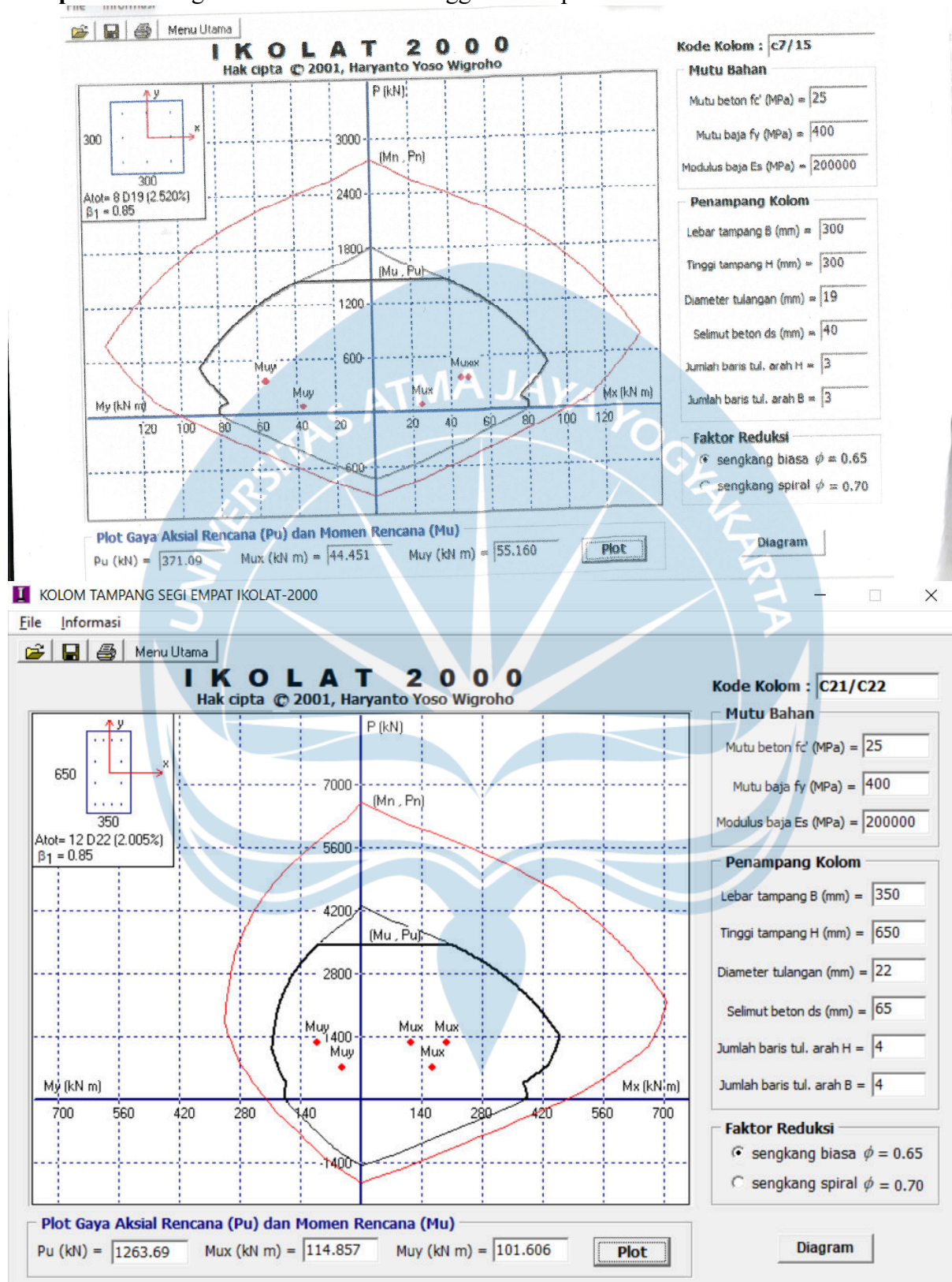
  

COLUMN FORCES									
STORY	COLUMN	LOAD	LOC	P	V2	V3	T	M2	M3
<b>KDKD</b>	<b>C7</b>	<b>KOLOM MAX</b>							
		0.0000	-10.25	5.19	19.44	0.000	9.483	-2.985	
		0.3500	-9.29	5.19	19.44	0.000	9.188	5.320	
		0.7000	-8.33	5.19	19.44	0.000	14.418	14.881	
<b>KDKD</b>	<b>C7</b>	<b>KOLOM MIN</b>							
		0.0000	-41.58	-28.05	-15.97	-0.001	1.761	-10.899	
		0.3500	-40.30	-28.05	-15.97	-0.001	0.841	-6.819	
		0.7000	-39.02	-28.05	-15.97	-0.001	-5.603	-8.378	
<b>KDKD</b>	<b>C15</b>	<b>KOLOM MAX</b>							
		0.0000	-10.26	28.06	19.48	0.000	9.514	10.895	
		0.3500	-9.30	28.06	19.48	0.000	9.199	6.846	
		0.7000	-8.34	28.06	19.48	0.000	14.421	8.387	
<b>KDKD</b>	<b>C15</b>	<b>KOLOM MIN</b>							
		0.0000	-41.55	-5.15	-15.96	-0.001	1.771	3.014	
		0.3500	-40.27	-5.15	-15.96	-0.001	0.853	-5.295	
		0.7000	-38.98	-5.15	-15.96	-0.001	-5.602	-14.856	
<b>KDKD</b>	<b>C21</b>	<b>KOLOM MAX</b>							
		0.0000	-110.94	-50.26	22.35	0.000	21.120	-24.544	
		0.1750	-110.46	-50.26	22.35	0.000	17.208	-15.748	
		0.3500	-109.97	-50.26	22.35	0.000	13.296	-5.467	
<b>KDKD</b>	<b>C21</b>	<b>KOLOM MIN</b>							
		0.0000	-232.56	-281.38	6.50	-0.001	7.775	-132.571	
		0.1750	-232.56	-281.38	6.50	-0.001	6.419	-83.330	

		0.3500	-232.56	-281.38	6.50	-0.001	5.045	-34.090
<b>KDKD</b>	<b>C22</b>	<b>KOLOM MAX</b>						
		0.0000	-110.94	281.25	22.36	0.000	21.133	132.513
		0.1750	-110.45	281.25	22.36	0.000	17.219	83.294
		0.3500	-109.97	281.25	22.36	0.000	13.306	34.075
<b>KDKD</b>	<b>C22</b>	<b>KOLOM MIN</b>						
		0.0000	-232.57	50.19	6.48	-0.001	7.765	24.505
		0.1750	-232.57	50.19	6.48	-0.001	6.409	15.722
		0.3500	-232.57	50.19	6.48	-0.001	5.038	5.490
<b>ATP</b>	<b>C7</b>	<b>KOLOM MAX</b>						
		0.0000	-20.00	16.02	13.91	-0.001	22.808	27.060
		1.6000	-15.61	16.02	13.91	-0.001	0.577	1.421
		3.2000	-11.21	16.02	13.91	-0.001	19.263	26.871
<b>ATP</b>	<b>C7</b>	<b>KOLOM MIN</b>						
		0.0000	-100.94	-18.10	-13.95	-0.008	-25.880	-31.060
		1.6000	-95.07	-18.10	-13.95	-0.008	-3.582	-2.095
		3.2000	-89.21	-18.10	-13.95	-0.008	-22.202	-24.218
<b>ATP</b>	<b>C15</b>	<b>KOLOM MAX</b>						
		0.0000	-19.99	18.08	13.89	-0.001	22.801	31.059
		1.6000	-15.59	18.08	13.89	-0.001	0.602	2.130
		3.2000	-11.20	18.08	13.89	-0.001	19.293	24.275
<b>ATP</b>	<b>C15</b>	<b>KOLOM MIN</b>						
		0.0000	-100.85	-16.04	-13.96	-0.008	-25.869	-27.040
		1.6000	-94.98	-16.04	-13.96	-0.008	-3.552	-1.383
		3.2000	-89.12	-16.04	-13.96	-0.008	-22.125	-26.800
<b>ATP</b>	<b>C21</b>	<b>KOLOM MAX</b>						
		0.0000	-210.64	10.81	14.01	-0.001	20.207	15.896
		1.4250	-206.72	10.81	14.01	-0.001	0.487	0.506
		2.8500	-202.80	10.81	14.01	-0.001	13.949	47.578
<b>ATP</b>	<b>C21</b>	<b>KOLOM MIN</b>						
		0.0000	-356.50	-40.98	-12.77	-0.008	-23.194	-69.222
		1.4250	-350.41	-40.98	-12.77	-0.008	-5.242	-10.831
		2.8500	-344.32	-40.98	-12.77	-0.008	-20.473	-14.904
<b>ATP</b>	<b>C22</b>	<b>KOLOM MAX</b>						
		0.0000	-210.66	41.01	14.00	-0.001	20.181	69.352
		1.4250	-206.74	41.01	14.00	-0.001	0.490	10.917
		2.8500	-202.82	41.01	14.00	-0.001	13.953	14.939
<b>ATP</b>	<b>C22</b>	<b>KOLOM MIN</b>						
		0.0000	-356.50	-10.77	-12.74	-0.008	-23.069	-15.763
		1.4250	-350.41	-10.77	-12.74	-0.008	-5.174	-0.412
		2.8500	-344.32	-10.77	-12.74	-0.008	-20.433	-47.517
<b>LT3</b>	<b>C7</b>	<b>KOLOM MAX</b>						
		0.0000	-55.52	6.25	19.70	0.002	33.248	10.997
		1.6000	-51.12	6.25	19.70	0.002	1.733	0.996
		3.2000	-46.73	6.25	19.70	0.002	35.936	13.996
<b>LT3</b>	<b>C7</b>	<b>KOLOM MIN</b>						
		0.0000	-231.28	-9.98	-23.62	-0.037	-39.646	-17.930
		1.6000	-225.42	-9.98	-23.62	-0.037	-1.855	-1.967
		3.2000	-219.56	-9.98	-23.62	-0.037	-29.782	-9.005
<b>LT3</b>	<b>C15</b>	<b>KOLOM MAX</b>						
		0.0000	-55.17	9.70	19.48	0.002	32.880	17.475
		1.6000	-50.77	9.70	19.48	0.002	1.714	1.955
		3.2000	-46.37	9.70	19.48	0.002	36.226	9.352

<b>LT3</b>	<b>C15</b>	<b>KOLOM MIN</b>						
		0.0000	-230.71	-6.47	-23.81	-0.037	-39.973	-11.346
		1.6000	-224.85	-6.47	-23.81	-0.037	-1.873	-0.997
		3.2000	-218.98	-6.47	-23.81	-0.037	-29.451	-13.564
<b>LT3</b>	<b>C21</b>	<b>KOLOM MAX</b>						
		0.0000	-473.48	-27.47	29.59	0.009	46.873	-50.828
		1.4250	-465.00	-27.47	29.59	0.009	4.701	-11.611
		2.8500	-456.51	-27.47	29.59	0.009	53.076	267.783
<b>LT3</b>	<b>C21</b>	<b>KOLOM MIN</b>						
		0.0000	-800.80	-201.52	-42.26	-0.134	-67.351	-306.545
		1.4250	-800.80	-201.52	-42.26	-0.134	-7.137	-22.033
		2.8500	-800.80	-201.52	-42.26	-0.134	-37.470	27.474
<b>LT3</b>	<b>C22</b>	<b>KOLOM MAX</b>						
		0.0000	-472.84	199.49	29.24	0.009	46.265	303.177
		1.4250	-464.36	199.49	29.24	0.009	4.608	22.427
		2.8500	-455.87	199.49	29.24	0.009	53.113	-26.359
<b>LT3</b>	<b>C22</b>	<b>KOLOM MIN</b>						
		0.0000	-800.19	26.66	-42.26	-0.134	-67.324	49.613
		1.4250	-800.19	26.66	-42.26	-0.134	-7.115	11.458
		2.8500	-800.19	26.66	-42.26	-0.134	-37.067	-265.365
<b>LT2</b>	<b>C7</b>	<b>KOLOM MAX</b>						
		0.0000	-87.73	21.34	26.69	0.002	52.927	44.051
		1.6000	-83.33	21.34	26.69	0.002	10.375	9.986
		3.2000	-78.93	21.34	26.69	0.002	35.964	29.249
<b>LT2</b>	<b>C7</b>	<b>KOLOM MIN</b>						
		0.0000	-372.31	-24.21	-28.41	-0.023	-54.933	-48.218
		1.6000	-366.45	-24.21	-28.41	-0.023	-9.639	-9.563
		3.2000	-360.58	-24.21	-28.41	-0.023	-32.485	-24.235
<b>LT2</b>	<b>C15</b>	<b>KOLOM MAX</b>						
		0.0000	-86.89	23.99	26.54	0.002	52.618	47.763
		1.6000	-82.50	23.99	26.54	0.002	10.291	9.479
		3.2000	-78.10	23.99	26.54	0.002	36.061	24.442
<b>LT2</b>	<b>C15</b>	<b>KOLOM MIN</b>						
		0.0000	-371.09	-21.53	-28.51	-0.023	-55.160	-44.451
		1.6000	-365.22	-21.53	-28.51	-0.023	-9.679	-10.109
		3.2000	-359.36	-21.53	-28.51	-0.023	-32.295	-29.014
<b>LT2</b>	<b>C21</b>	<b>KOLOM MAX</b>						
		0.0000	-734.63	48.63	45.38	0.007	95.507	113.946
		1.4250	-726.15	48.63	45.38	0.007	31.166	52.549
		2.8500	-717.66	48.63	45.38	0.007	42.527	162.905
<b>LT2</b>	<b>C21</b>	<b>KOLOM MIN</b>						
		0.0000	-1264.91	-125.96	-50.49	-0.082	-101.384	-196.067
		1.4250	-1264.91	-125.96	-50.49	-0.082	-29.758	-24.483
		2.8500	-1264.91	-125.96	-50.49	-0.082	-33.833	-24.653
<b>LT2</b>	<b>C22</b>	<b>KOLOM MAX</b>						
		0.0000	-733.22	124.73	45.18	0.007	95.155	193.520
		1.4250	-724.74	124.73	45.18	0.007	31.047	23.921
		2.8500	-716.25	124.73	45.18	0.007	42.397	24.408
<b>LT2</b>	<b>C22</b>	<b>KOLOM MIN</b>						
		0.0000	-1263.69	-48.86	-50.52	-0.082	-101.606	-114.857
		1.4250	-1263.69	-48.86	-50.52	-0.082	-29.890	-53.370
		2.8500	-1263.69	-48.86	-50.52	-0.082	-33.631	-161.969

Lampiran 5. Diagram intraksi kolom menggunakan aplikasi iKolat 2000

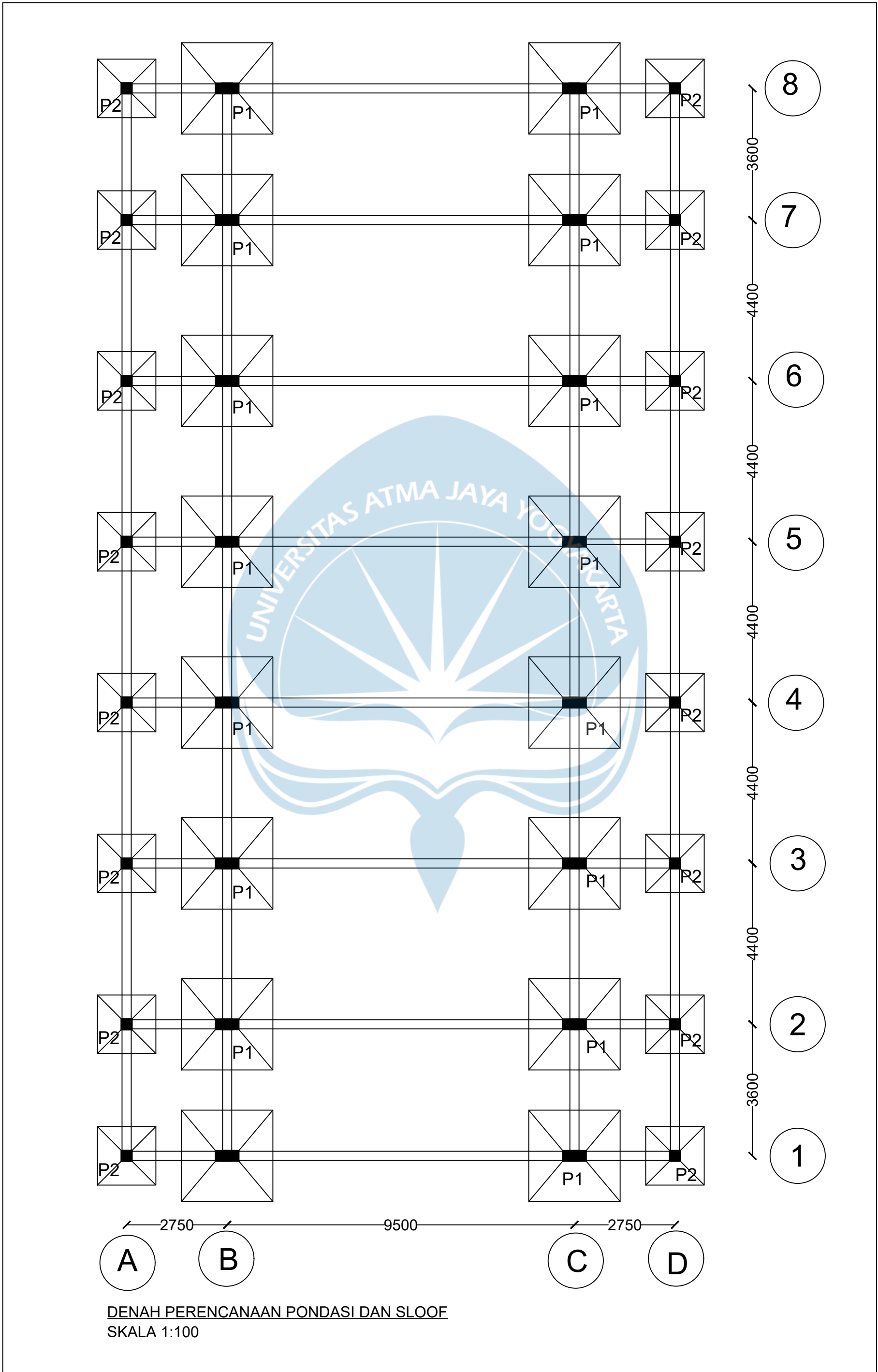


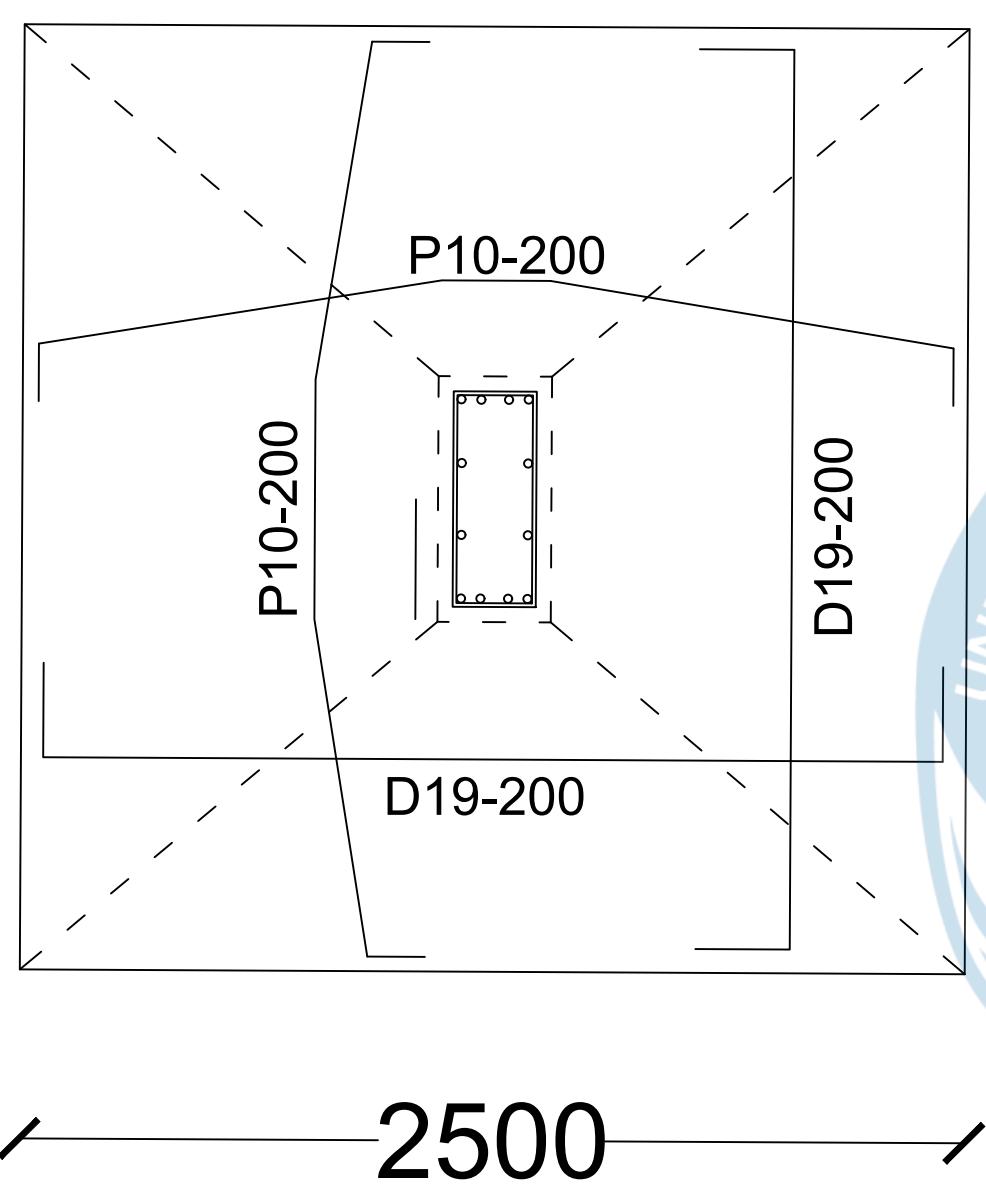
**Lampiran 6.** Perhitungan Perencanaan Pondasi menggunakan ETABS v 9.2

ETABS v9.2.0 File:HMM Units:KN-m June 19, 2019 19:40 PAGE 1								
LOADING COMBINATIONS								
COMBO	CASE	SCALE						
COMBO	TYPE	CASE	TYPE	FACTOR				
KOLOM	ENVE	COMB1	Combo	1.4400				
	COMB4	Combo		1.4400				
	COMB5	Combo		1.4400				
	COMB6	Combo		1.4400				
	COMB7	Combo		1.4400				
	COMB8	Combo		1.4400				
	COMB9	Combo		1.4400				
	COMB10	Combo		1.4400				
	COMB11	Combo		1.4400				
	COMB12	Combo		1.4400				
	COMB13	Combo		1.4400				
	COMB14	Combo		1.4400				
	COMB15	Combo		1.4400				
	COMB16	Combo		1.4400				
	COMB17	Combo		1.4400				
	COMB18	Combo		1.4400				
	COMB3	Combo		1.4400				
	COMB2	Combo		1.4400				
ETABS v9.2.0 File:HMM Units:KN-m June 19, 2019 19:40 PAGE 2								
SUPPORT REACTIONS								
STORY	POINT	LOAD	FX	FY	FZ	MX	MY	MZ
BASE	1	KOLOM Max	23.80	17.84	313.65	0.000	0.000	0.000
BASE	1	KOLOM Min	-21.91	-22.95	-53.86	0.000	0.000	0.000
BASE	2	KOLOM Max	24.16	26.58	464.70	0.000	0.000	0.000
BASE	2	KOLOM Min	-21.64	-28.58	54.78	0.000	0.000	0.000
BASE	3	KOLOM Max	24.03	25.26	459.88	0.000	0.000	0.000
BASE	3	KOLOM Min	-21.75	-25.25	118.96	0.000	0.000	0.000
BASE	4	KOLOM Max	23.92	25.46	456.30	0.000	0.000	0.000
BASE	4	KOLOM Min	-21.75	-25.60	117.73	0.000	0.000	0.000
BASE	5	KOLOM Max	24.03	25.46	454.55	0.000	0.000	0.000
BASE	5	KOLOM Min	-21.63	-25.59	117.20	0.000	0.000	0.000
BASE	6	KOLOM Max	24.09	25.13	461.13	0.000	0.000	0.000
BASE	6	KOLOM Min	-21.52	-25.40	121.49	0.000	0.000	0.000
BASE	7	KOLOM Max	24.21	28.40	465.39	0.000	0.000	0.000
BASE	7	KOLOM Min	-21.34	-26.70	57.49	0.000	0.000	0.000
BASE	8	KOLOM Max	23.88	22.84	314.34	0.000	0.000	0.000
BASE	8	KOLOM Min	-21.52	-17.93	-51.67	0.000	0.000	0.000
BASE	9	KOLOM Max	21.71	17.88	315.56	0.000	0.000	0.000
BASE	9	KOLOM Min	-24.04	-22.78	-52.94	0.000	0.000	0.000
BASE	10	KOLOM Max	21.53	26.64	466.55	0.000	0.000	0.000
BASE	10	KOLOM Min	-24.36	-28.35	56.09	0.000	0.000	0.000
BASE	11	KOLOM Max	21.70	25.36	461.06	0.000	0.000	0.000
BASE	11	KOLOM Min	-24.13	-25.10	119.48	0.000	0.000	0.000

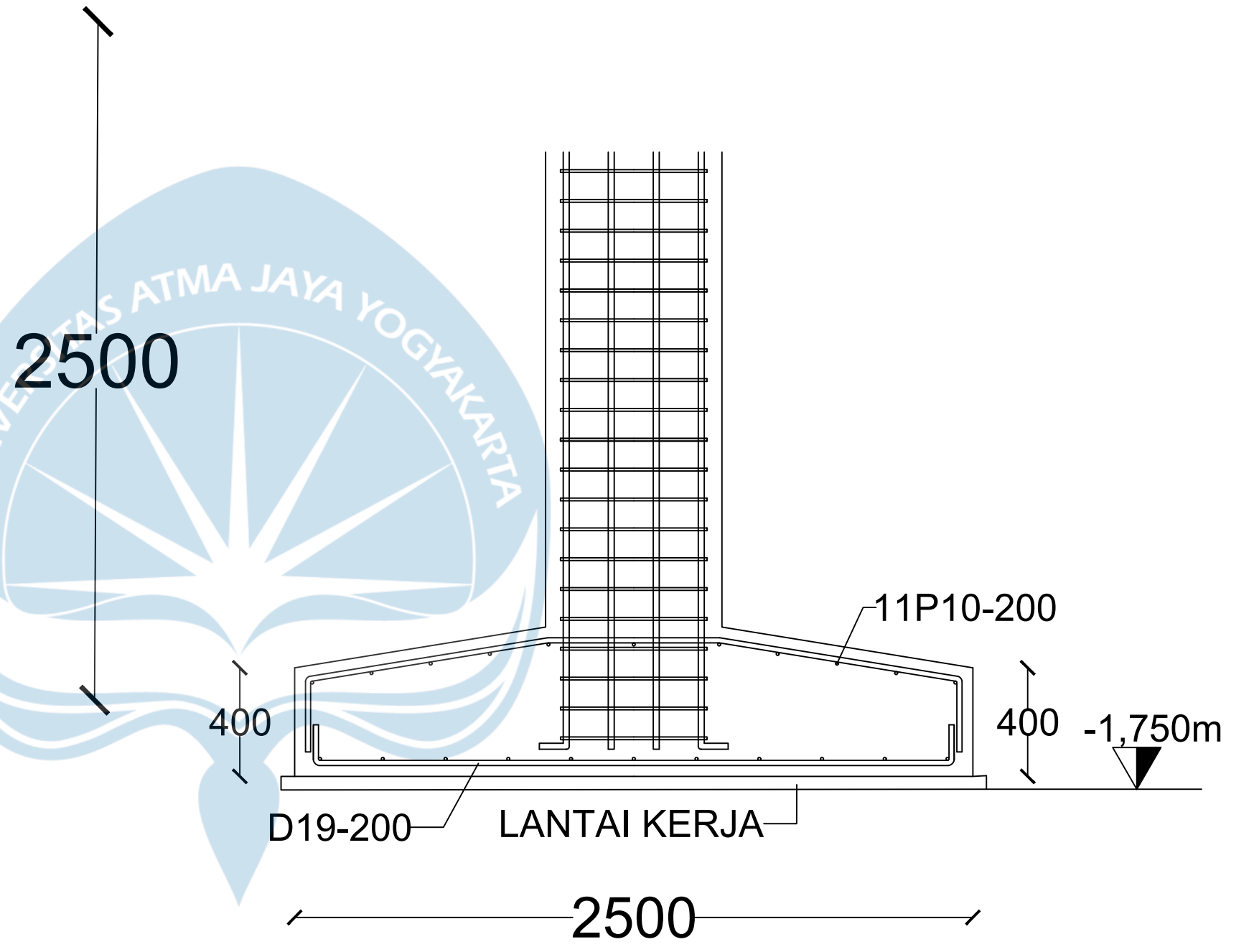
BASE	12	KOLOM Max	21.77	25.55	457.28	0.000	0.000	0.000
BASE	12	KOLOM Min	-23.91	-25.41	118.37	0.000	0.000	0.000
BASE	13	KOLOM Max	21.72	25.55	454.89	0.000	0.000	0.000
BASE	13	KOLOM Min	-23.94	-25.41	117.44	0.000	0.000	0.000
BASE	14	KOLOM Max	21.61	25.21	456.96	0.000	0.000	0.000
BASE	14	KOLOM Min	-23.84	-25.22	121.39	0.000	0.000	0.000
BASE	15	KOLOM Max	21.53	28.51	463.39	0.000	0.000	0.000
BASE	15	KOLOM Min	-23.99	-26.53	56.26	0.000	0.000	0.000
BASE	16	KOLOM Max	21.72	22.92	312.84	0.000	0.000	0.000
BASE	16	KOLOM Min	-23.53	-17.80	-53.01	0.000	0.000	0.000
BASE	17	KOLOM Max	120.76	28.12	929.08	0.000	0.000	0.000
BASE	17	KOLOM Min	-53.60	-41.37	420.35	0.000	0.000	0.000
BASE	18	KOLOM Max	53.34	28.14	927.93	0.000	0.000	0.000
BASE	18	KOLOM Min	-121.50	-41.25	420.08	0.000	0.000	0.000
BASE	19	KOLOM Max	48.85	45.18	1296.06	0.000	0.000	0.000
BASE	19	KOLOM Min	-126.34	-50.55	756.36	0.000	0.000	0.000
BASE	20	KOLOM Max	126.03	45.14	1296.13	0.000	0.000	0.000
BASE	20	KOLOM Min	-49.14	-50.74	756.51	0.000	0.000	0.000
BASE	21	KOLOM Max	125.95	50.50	1292.08	0.000	0.000	0.000
BASE	21	KOLOM Min	-48.64	-45.37	755.55	0.000	0.000	0.000
BASE	22	KOLOM Max	48.87	50.52	1291.62	0.000	0.000	0.000
BASE	22	KOLOM Min	-124.74	-45.19	754.58	0.000	0.000	0.000
BASE	23	KOLOM Max	118.25	41.21	905.87	0.000	0.000	0.000
BASE	23	KOLOM Min	-52.65	-28.08	402.30	0.000	0.000	0.000
BASE	24	KOLOM Max	53.46	41.25	906.62	0.000	0.000	0.000
BASE	24	KOLOM Min	-117.46	-27.99	403.51	0.000	0.000	0.000
BASE	25	KOLOM Max	125.84	42.98	1031.08	0.000	0.000	0.000
BASE	25	KOLOM Min	-47.04	-43.13	608.51	0.000	0.000	0.000
BASE	26	KOLOM Max	142.48	44.06	1247.16	0.000	0.000	0.000
BASE	26	KOLOM Min	-36.28	-42.40	648.55	0.000	0.000	0.000
BASE	27	KOLOM Max	139.64	42.44	1302.80	0.000	0.000	0.000
BASE	27	KOLOM Min	-38.01	-44.13	661.45	0.000	0.000	0.000
BASE	28	KOLOM Max	125.54	42.79	1052.11	0.000	0.000	0.000
BASE	28	KOLOM Min	-51.14	-42.93	644.73	0.000	0.000	0.000
BASE	29	KOLOM Max	46.99	43.07	1029.47	0.000	0.000	0.000
BASE	29	KOLOM Min	-126.10	-42.98	608.19	0.000	0.000	0.000
BASE	30	KOLOM Max	39.17	44.60	1193.76	0.000	0.000	0.000
BASE	30	KOLOM Min	-137.89	-42.15	611.55	0.000	0.000	0.000
BASE	31	KOLOM Max	40.81	42.38	1243.85	0.000	0.000	0.000
BASE	31	KOLOM Min	-134.55	-44.38	621.87	0.000	0.000	0.000
BASE	32	KOLOM Max	52.73	44.23	1124.97	0.000	0.000	0.000
BASE	32	KOLOM Min	-144.23	-44.00	695.26	0.000	0.000	0.000
Summation	0, 0,	Base KOLOM MAX	1774.09	1071.22	24849.09	362622.963	-	-
			186158.126	-17853.249				

Lampiran 7. Gambar denah perencanaan pondasi dan sloof

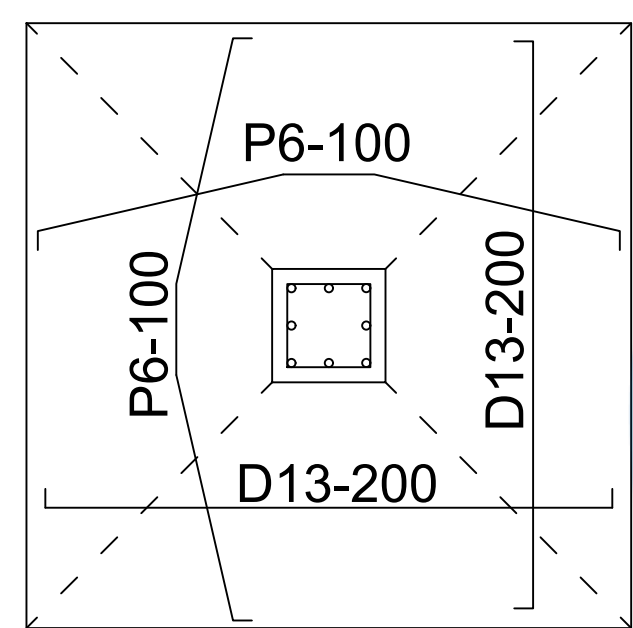




DETAIL PONDASI P1  
SKALA 1:20



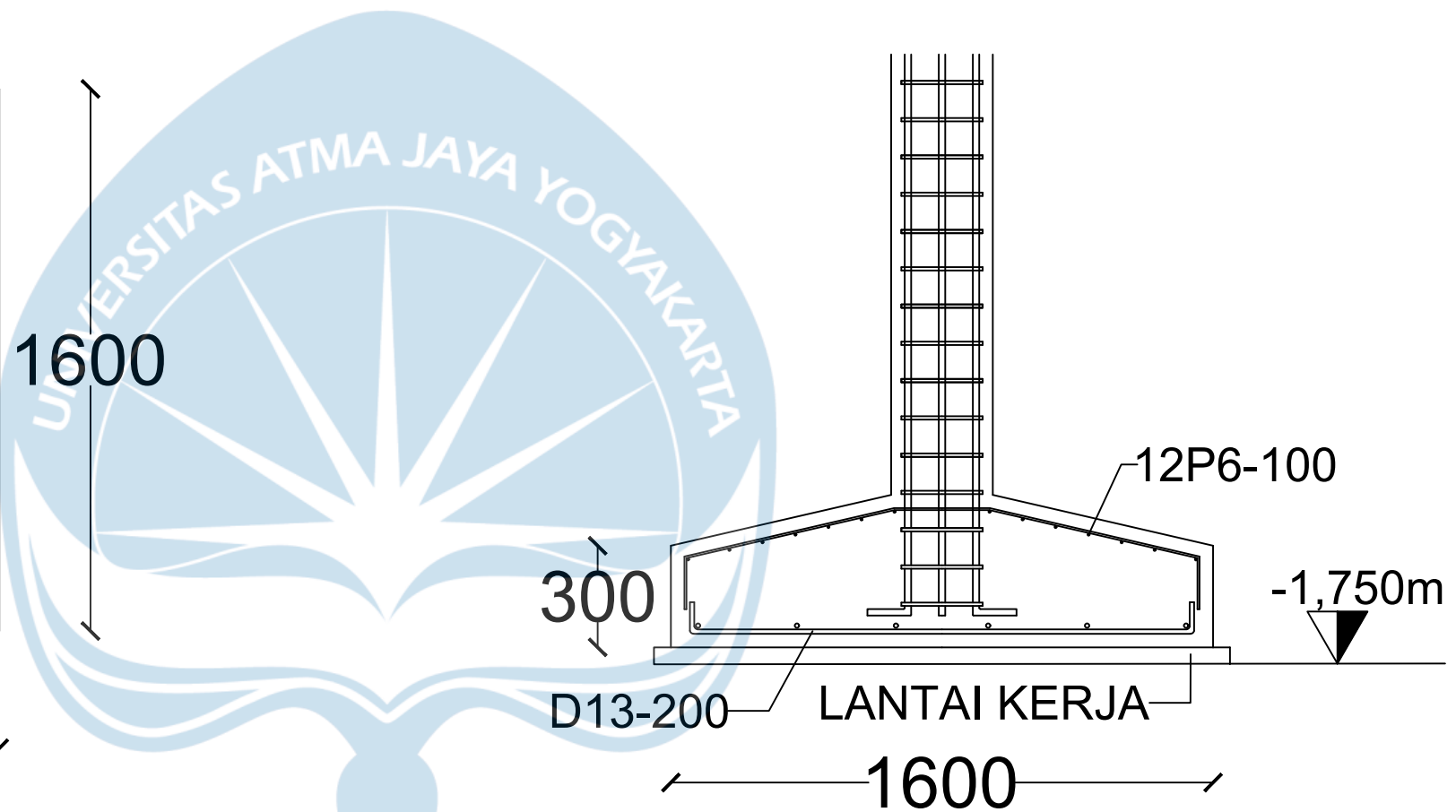
POTONGAN PONDASI P1  
SKALA 1:20



1600

DETAIL PONDASI P2

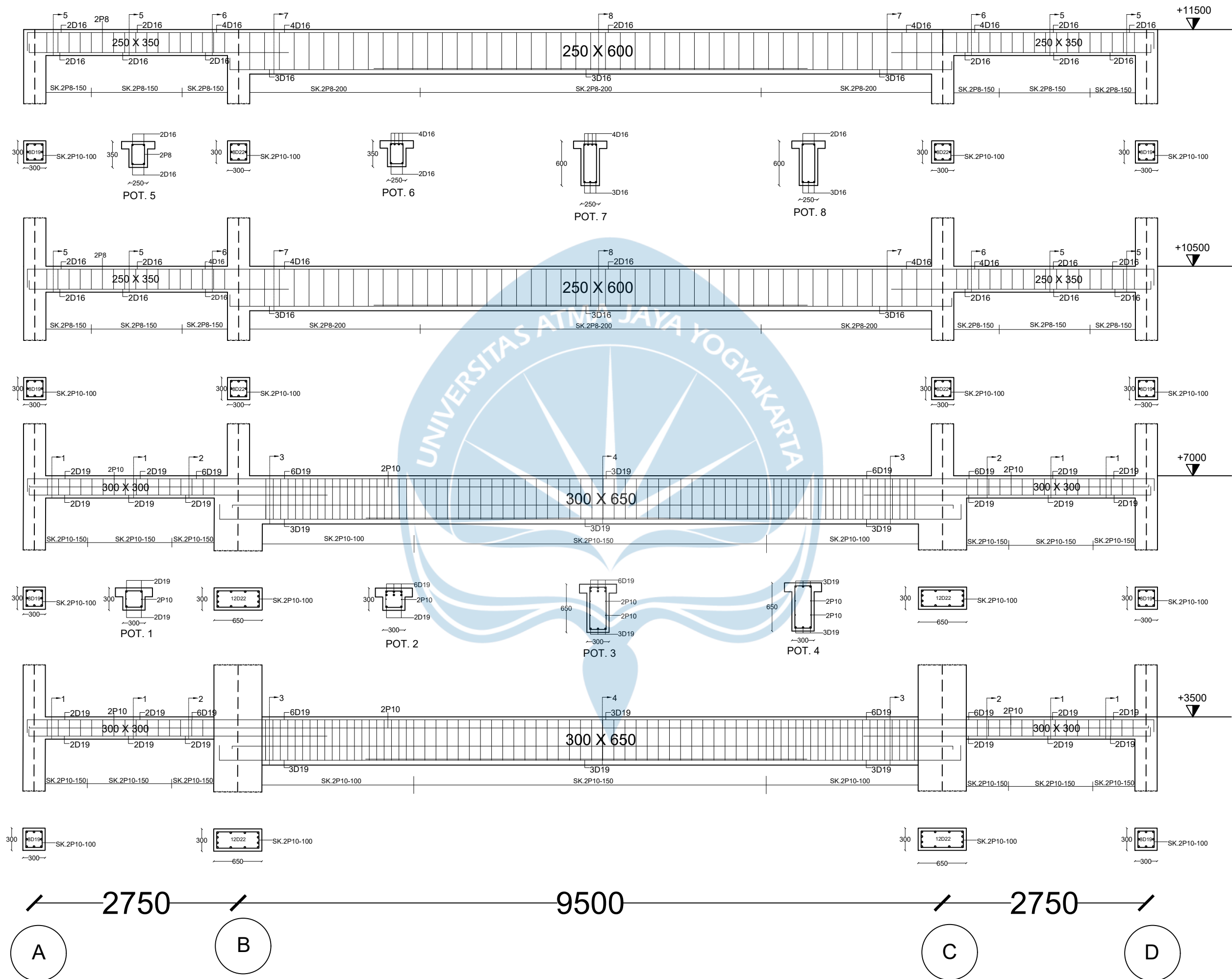
SKALA 1:20



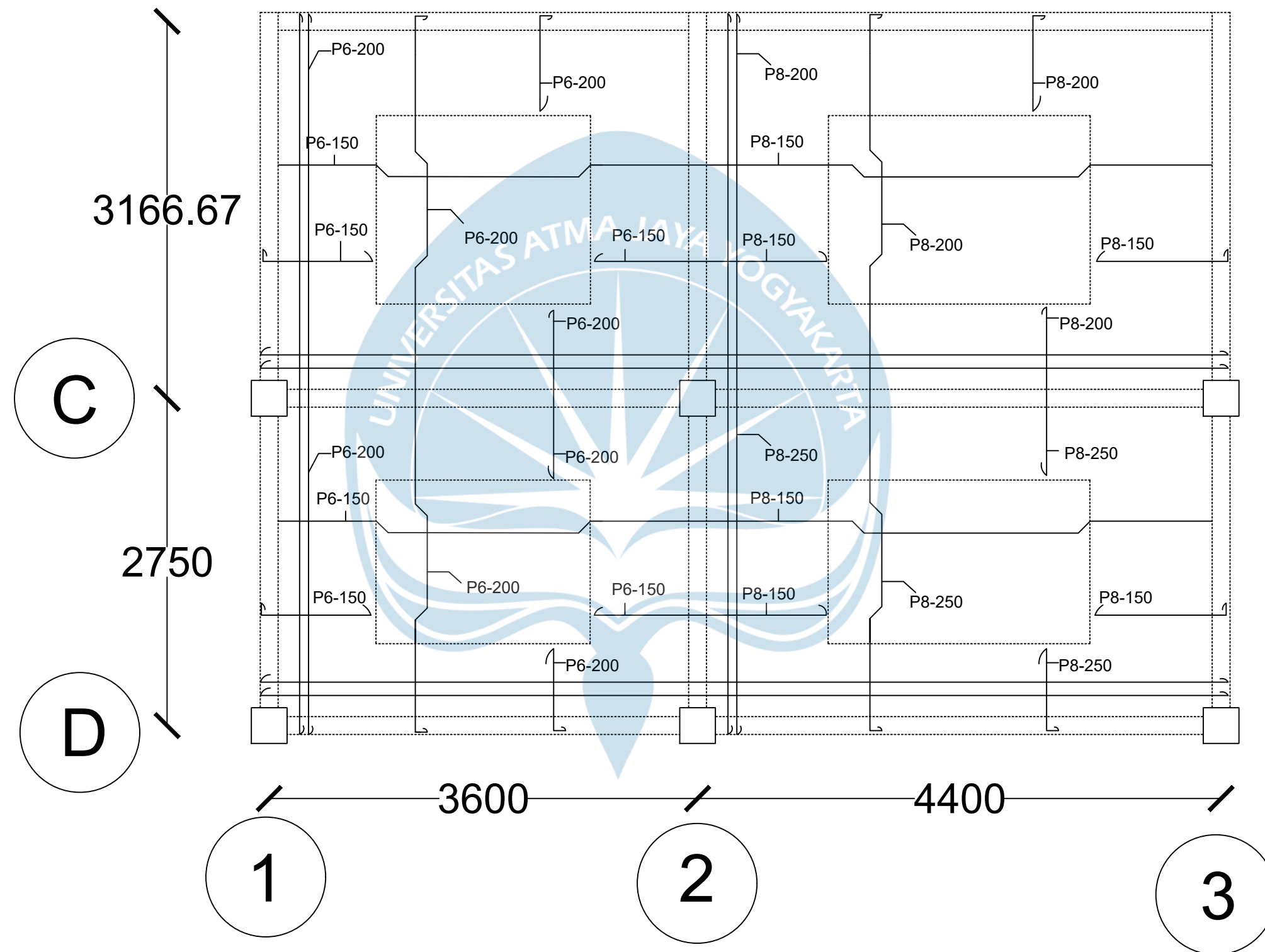
POTONGAN PONDASI P2

SKALA 1:20

Lampiran 9. Gambar penulangan portal



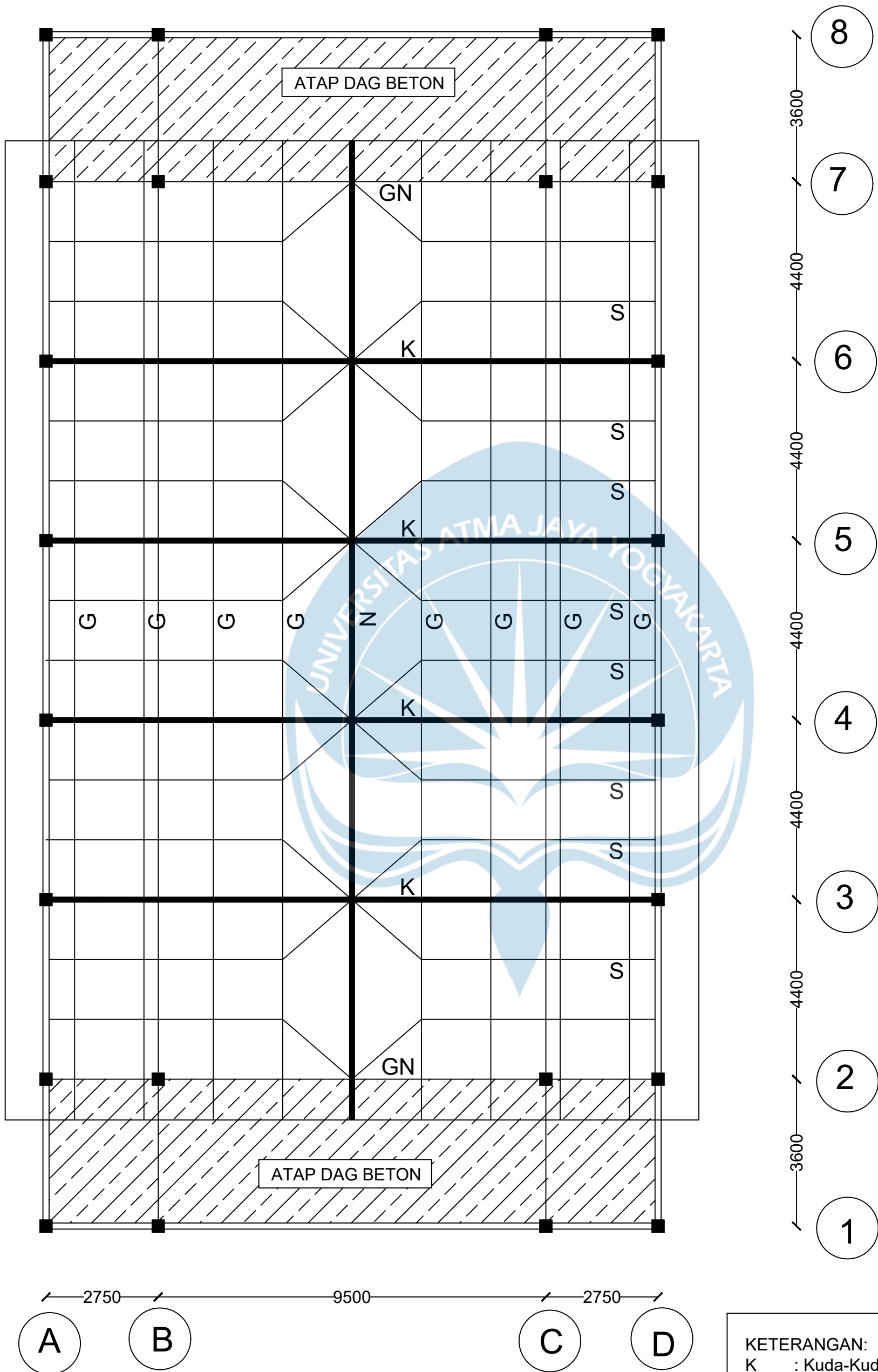
GAMBAR PENULANGAN PORTAL AS-2  
SKALA 1:50



**DETAIL PENULANGAN PELAT LANTAI**  
**SKALA 1:40**



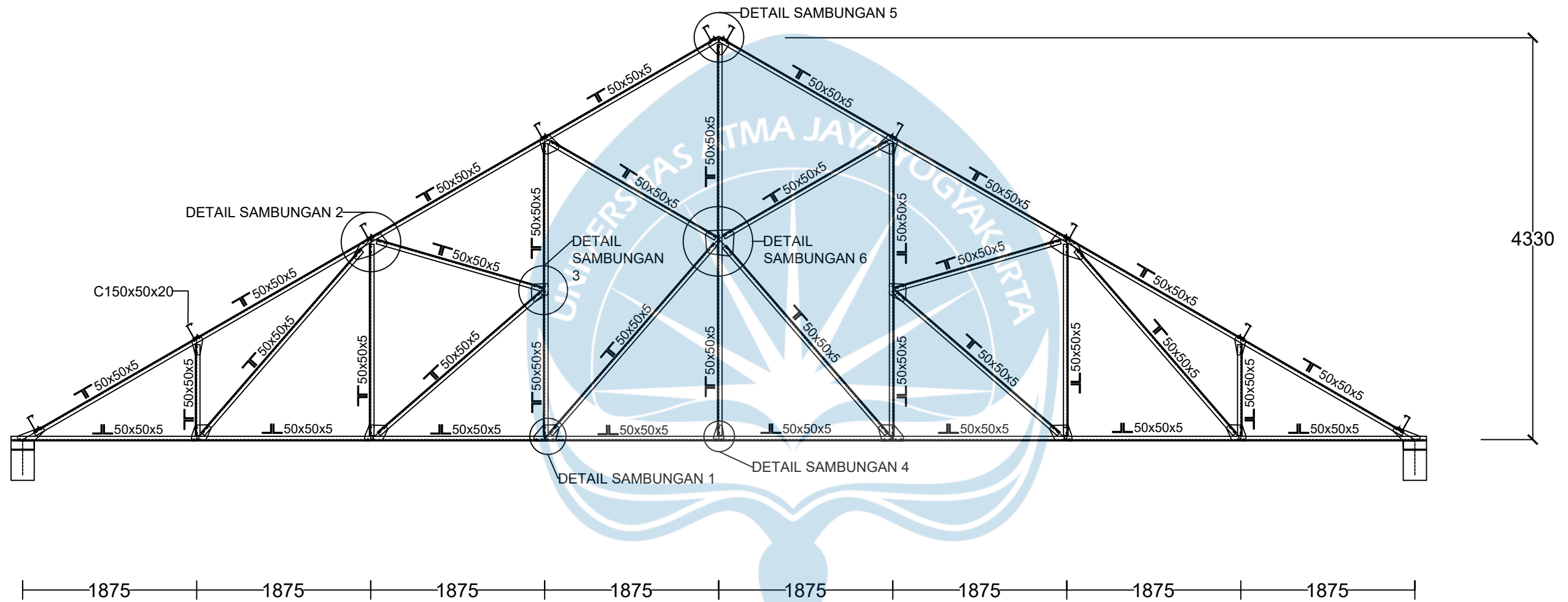
Lampiran 12. Gambar denah rencana atap



DENAH RENCANA ATAP  
SKALA 1:100

- KETERANGAN:
- K : Kuda-Kuda rangka baja
  - G : Gording C150X50X20X2,5
  - N : Nok 2C150X50X20X2,5
  - S : Sagrod Ø10mm
  - GN : Gunung-gunung Ø16mm

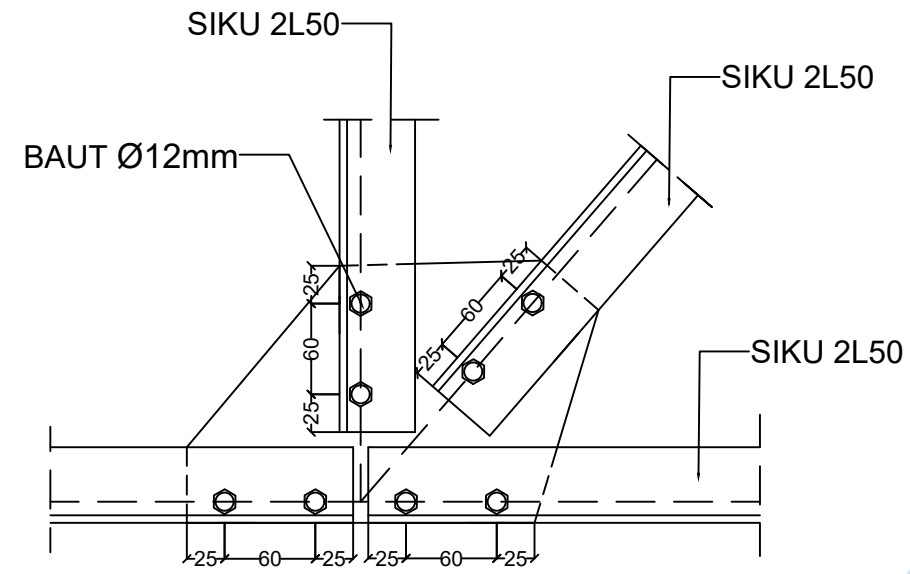
Lampiran 13. Gambar rencana kuda-kuda baja



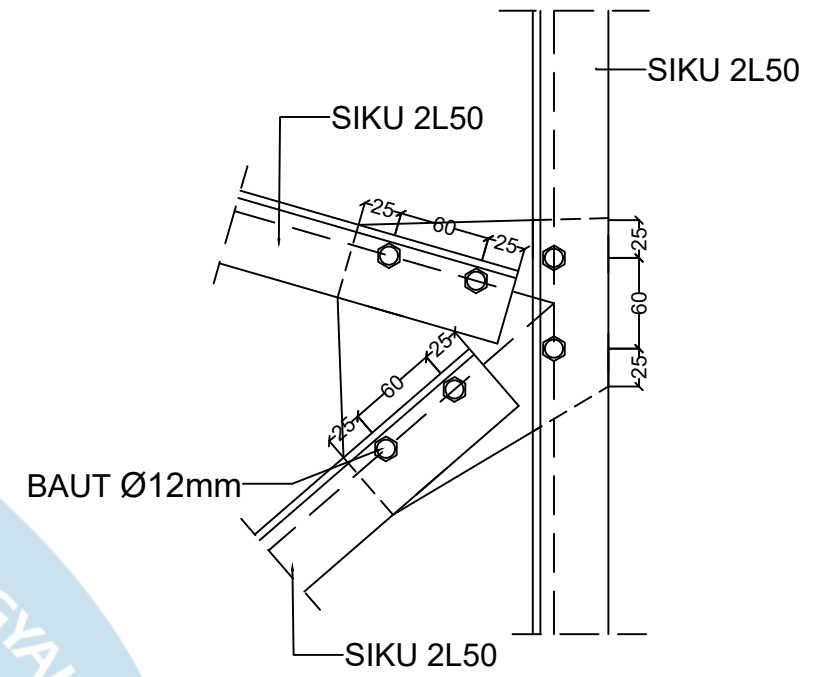
RENCANA KUDA-KUDA BAJA  
SKALA 1:50

KETERANGAN:

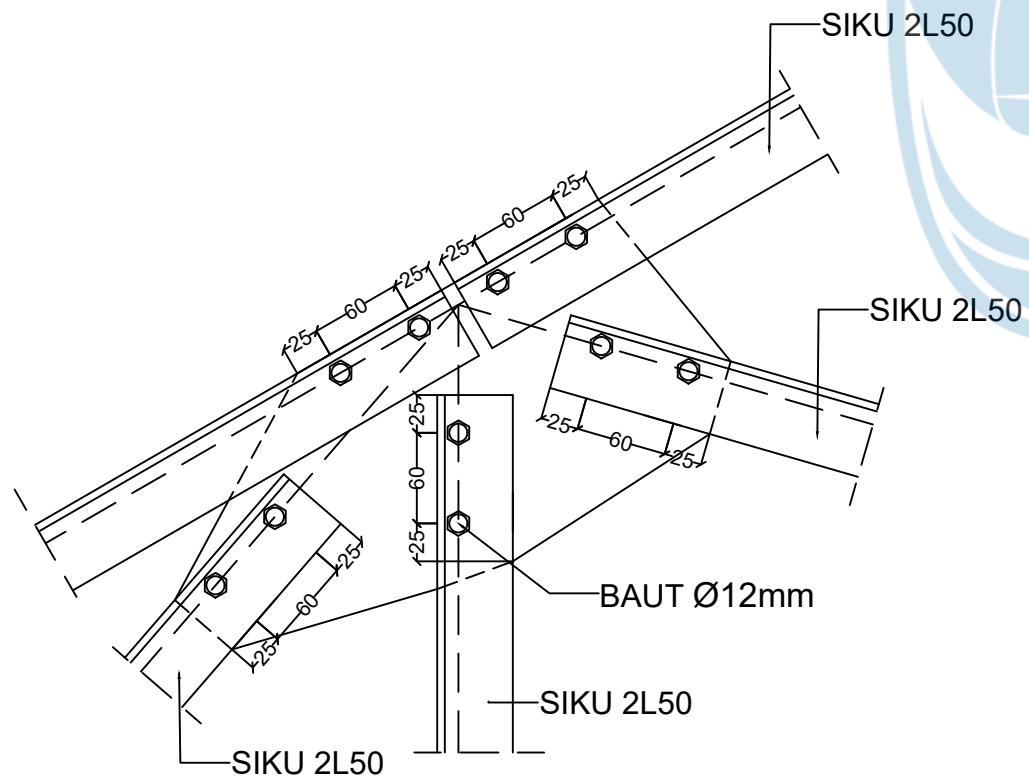
KUDA-KUDA	PROFIL	PLAT SIMPUL	SAMBUNGAN	DIAMETER BAUT
KB	L 50x50x5	8mm	BAUT	12mm



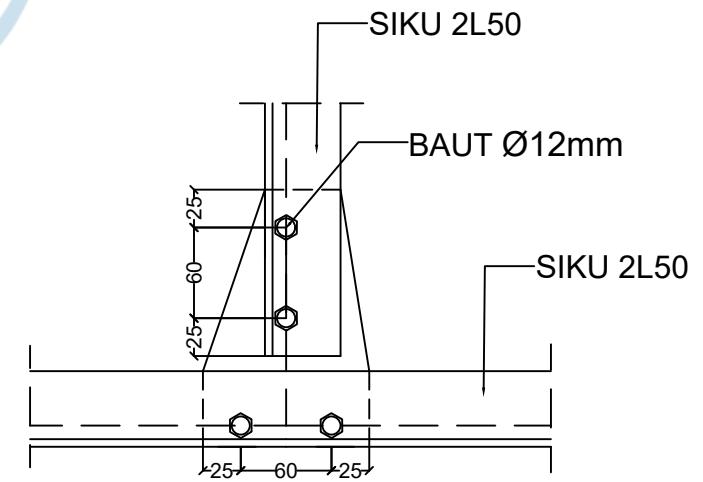
DETAIL SAMBUNGAN BAUT 1  
SKALA 1:5



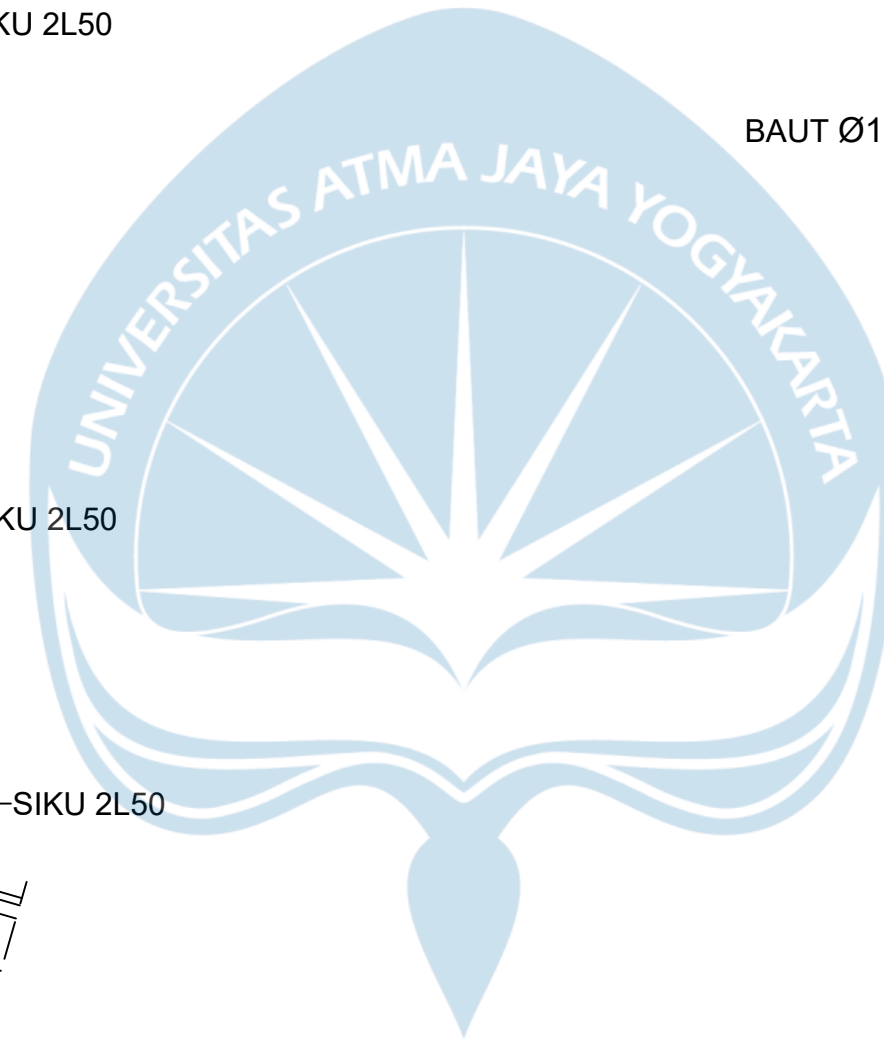
DETAIL SAMBUNGAN BAUT 3  
SKALA 1:5

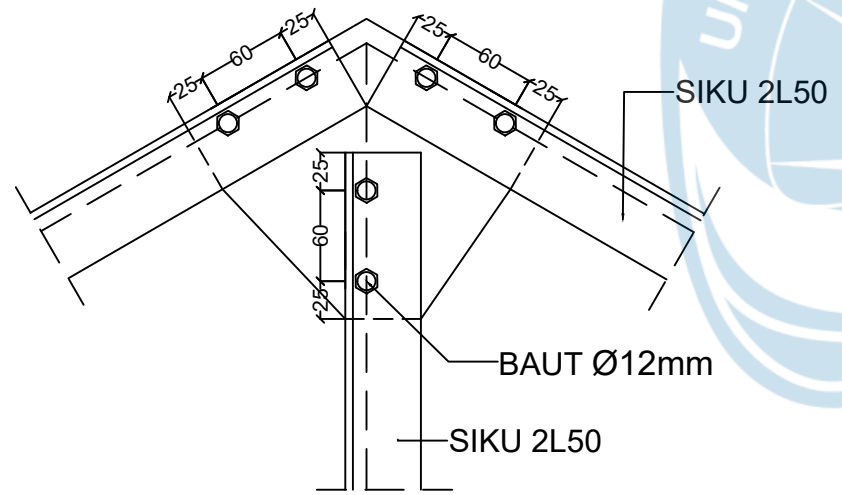
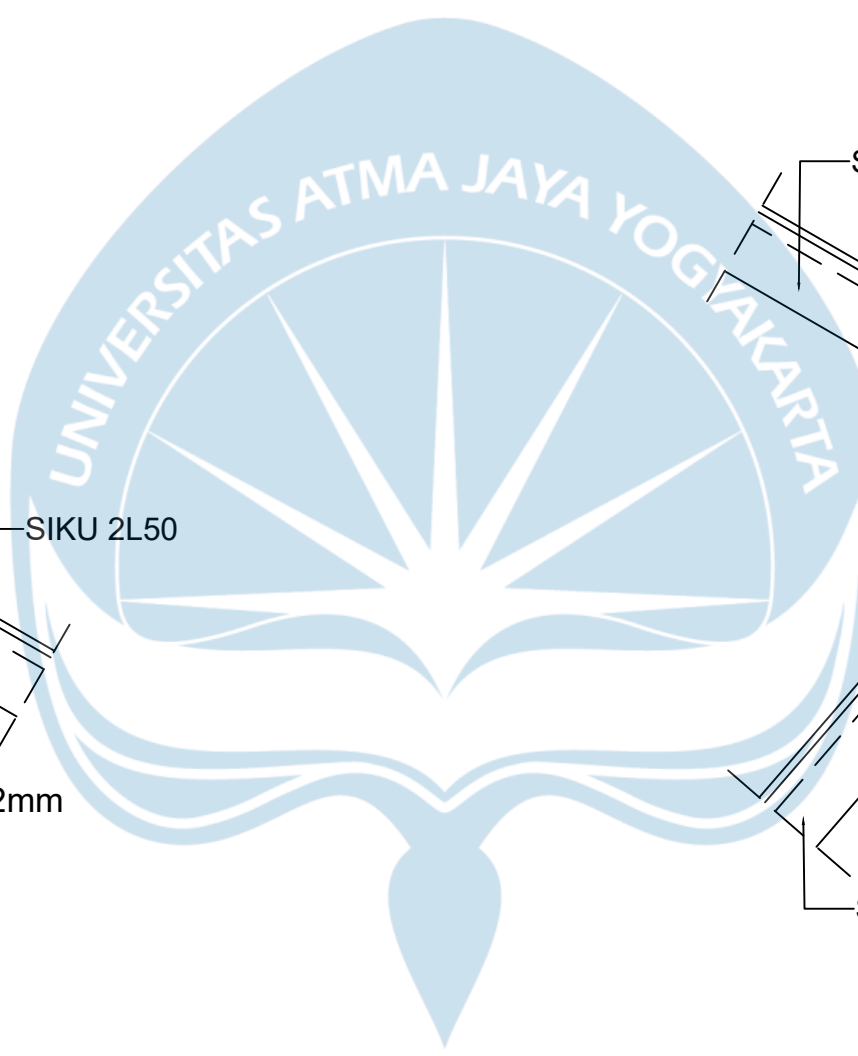


DETAIL SAMBUNGAN BAUT 2  
SKALA 1:5

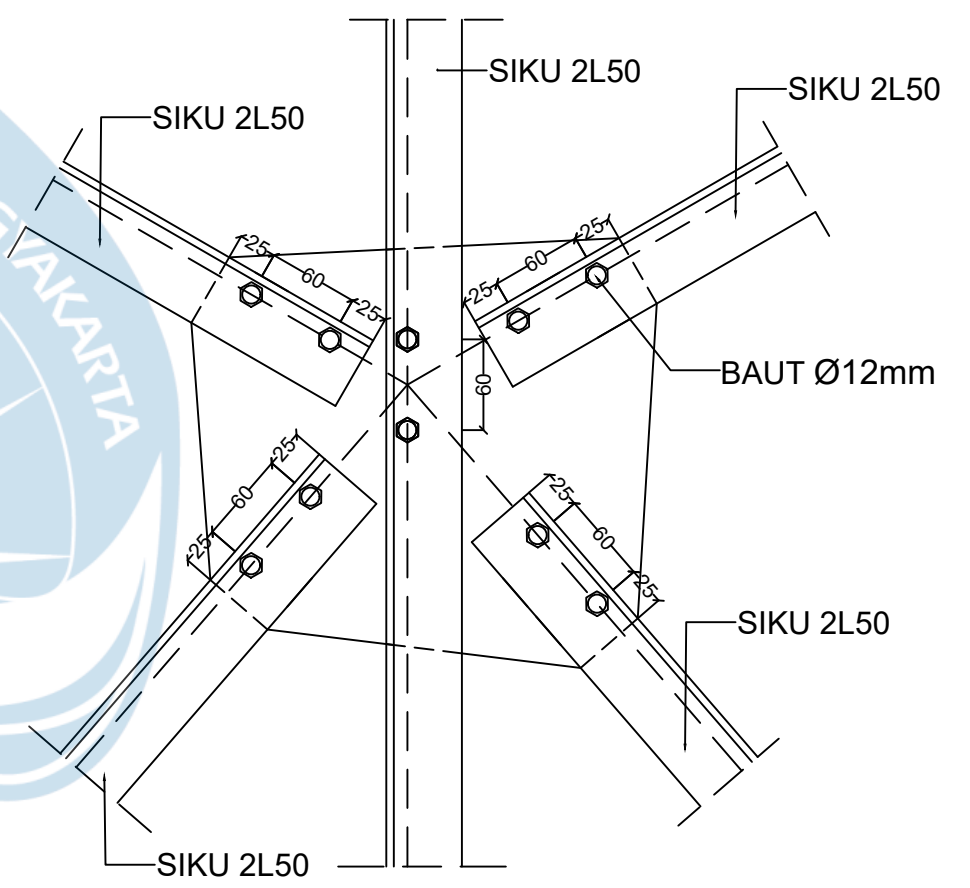


DETAIL SAMBUNGAN BAUT 4  
SKALA 1:5

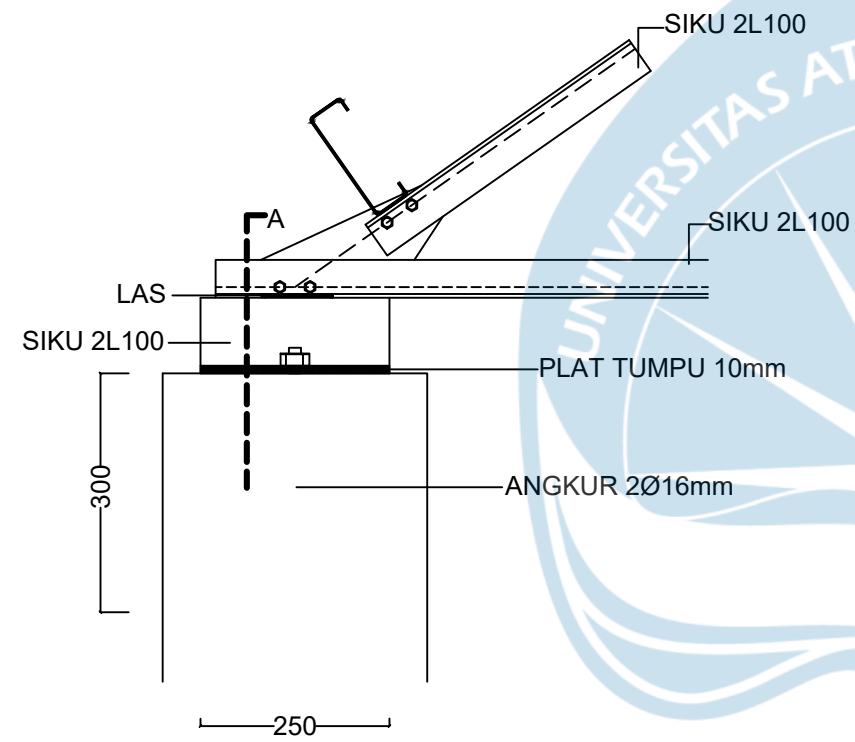




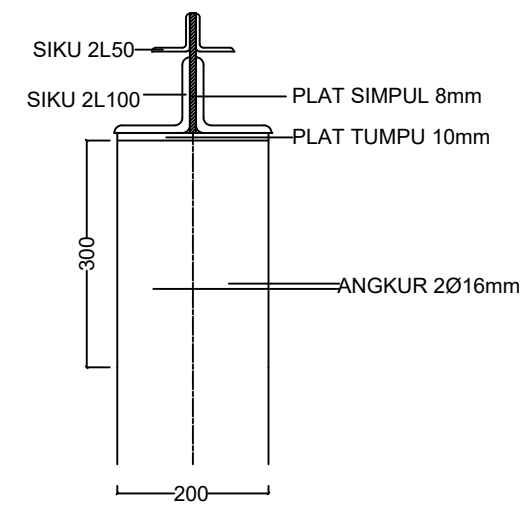
DETAIL SAMBUNGAN BAUT 5  
SKALA 1:5



DETAIL SAMBUNGAN BAUT 6  
SKALA 1:5



DETAIL DUDUKAN KUDA-KUDA  
 SKALA 1:10



POTONGAN A  
 SKALA 1:10

## Lampiran 15. Survei volume lalu lintas

### SURVEI VOLUME LALU LINTAS

Lokasi :

Ruas Jalan Anggajaya II, Condongcatur, Kecamatan Depok, Kabupaten Sleman, Daerah Istimewa Yogyakarta

Hari/tanggal :

Sabtu, 10 Februari 2018

#### 1. Arah Selatan Ke Utara

Waktu		Jenis Kendaraan								Cuaca	
		Bermotor				Tidak Bermotor					
		Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda		Gerobak
Pagi	06.45 - 07.00	9	0	121	0	0	0	0	4	0	Cerah
	07.00 - 07.15	11	0	100	0	1	0	0	1	0	
	07.15 - 07.30	15	0	132	0	0	0	0	3	0	
	07.30 - 07.45	8	1	116	0	0	0	0	1	0	
	07.45 - 08.00	16	0	180	0	1	0	0	2	1	
	08.00 - 08.15	19	0	149	0	1	0	0	0	1	
	08.15 - 08.30	16	0	113	0	1	0	0	1	0	
08.30 - 08.45	21	1	171	0	0	0	0	0	0		
Siang	11.30 - 11.45	18	0	165	0	0	1	0	1	2	Cerah
	11.45 - 12.00	14	0	134	0	1	0	0	1	0	
	12.00 - 12.15	23	0	191	0	0	0	0	1	0	
	12.15 - 12.30	32	0	147	0	3	0	0	0	1	
	12.30 - 12.45	25	0	176	0	1	0	0	1	1	
	12.45 - 13.00	29	0	177	0	0	0	0	2	0	
	13.00 - 13.15	29	1	173	0	1	0	0	0	0	
13.15 - 13.30	30	0	145	0	0	0	0	1	0		
Sore	16.00 - 16.15	13	0	145	0	0	0	0	1	0	Cerah
	16.15 - 16.30	14	0	151	0	2	21	0	2	0	
	16.30 - 16.45	22	0	132	0	0	5	0	3	0	
	16.45 - 17.00	19	0	110	0	0	0	0	1	0	
	17.00 - 17.15	15	0	203	0	0	0	0	4	0	
	17.15 - 17.30	13	0	164	0	0	0	0	2	0	
	17.30 - 17.45	20	0	176	0	0	2	0	1	0	
17.45 - 18.00	27	0	173	0	1	2	0	1	0		

## 2. Arah Utara Ke Selatan

Waktu		Jenis Kendaraan									Cuaca
		Bermotor					Tidak Bermotor				
		Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak	
Pagi	06.45 - 07.00	43	0	324	0	1	1	0	3	0	Cerah
	07.00 - 07.15	41	1	262	0	1	0	1	2	0	
	07.15 - 07.30	44	0	271	5	0	3	0	3	0	
	07.30 - 07.45	44	0	380	0	0	1	1	5	0	
	07.45 - 08.00	57	0	380	2	0	0	0	3	0	
	08.00 - 08.15	56	0	283	0	0	2	0	5	0	
	08.15 - 08.30	54	0	276	0	1	2	0	4	1	
08.30 - 08.45	54	0	298	0	0	1	0	2	0		
Siang	11.30 - 11.45	84	0	241	0	2	1	0	1	0	Cerah
	11.45 - 12.00	60	0	237	0	1	1	0	1	0	
	12.00 - 12.15	56	0	220	0	3	6	0	1	1	
	12.15 - 12.30	61	0	275	0	1	1	0	2	0	
	12.30 - 12.45	65	0	265	0	1	2	1	2	0	
	12.45 - 13.00	58	0	263	0	3	1	0	1	0	
	13.00 - 13.15	69	0	296	0	2	1	0	1	0	
13.15 - 13.30	63	0	294	0	1	1	0	2	0		
Sore	16.00 - 16.15	45	0	344	0	0	3	0	5	0	Cerah
	16.15 - 16.30	74	0	350	0	0	3	0	3	0	
	16.30 - 16.45	60	0	295	0	1	0	0	0	2	
	16.45 - 17.00	65	0	291	0	0	4	0	3	0	
	17.00 - 17.15	62	0	291	0	1	0	0	2	0	
	17.15 - 17.30	66	0	300	0	0	0	0	2	0	
	17.30 - 17.45	56	0	226	0	0	0	0	0	1	
17.45 - 18.00	55	0	216	0	1	0	0	6	0		

## Lampiran 16. Survei Kecepatan Tempuh Kendaraan

### SURVEI KECEPATAN ARUS LALU LINTAS

Lokasi :

Ruas Jalan Anggajaya II, Condongcatur, Kecamatan Depok, Kabupaten Sleman, Daerah Istimewa Yogyakarta

Hari/tanggal :

Sabtu, 10 Februari 2018

#### 1. Arah Selatan Ke Utara

##### A. 06.45 - 07.00 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	8	-	4	-	-	-	-	10	-
2	6	-	2	-	-	-	-	11.2	-
3	5	-	4	-	-	-	-	10.4	-
4	8	-	5	-	-	-	-	12.6	-
5	6.8	-	4	-	-	-	-	-	-
6	6.6	-	5	-	-	-	-	-	-
7	6	-	7	-	-	-	-	-	-
8	4.9	-	9	-	-	-	-	-	-
9	4.6	-	3	-	-	-	-	-	-
10	-	-	4	-	-	-	-	-	-
11	-	-	5	-	-	-	-	-	-
12	-	-	6	-	-	-	-	-	-
13	-	-	7	-	-	-	-	-	-
14	-	-	3	-	-	-	-	-	-
15	-	-	6	-	-	-	-	-	-
Jumlah	55.9	-	74	-	-	-	-	44.2	-
Rata-rata	6.211111	-	4.933333	-	-	-	-	11.05	-

##### B. 07.00 - 07.15 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	5.8	-	5	-	9.1	-	-	12	-
2	7.4	-	7.1	-	-	-	-	-	-
3	8	-	3.8	-	-	-	-	-	-
4	5	-	6.8	-	-	-	-	-	-
5	4.9	-	7.7	-	-	-	-	-	-
6	6.5	-	9.1	-	-	-	-	-	-
7	4.8	-	8.7	-	-	-	-	-	-
8	5.4	-	7.4	-	-	-	-	-	-
9	8	-	5.9	-	-	-	-	-	-
10	7.5	-	7.4	-	-	-	-	-	-
11	6.9	-	4.7	-	-	-	-	-	-
12	-	-	5.8	-	-	-	-	-	-
13	-	-	6.4	-	-	-	-	-	-
14	-	-	6.3	-	-	-	-	-	-
15	-	-	6.9	-	-	-	-	-	-
Jumlah	70.2	-	99	-	9.1	-	-	12	-
Rata-rata	6.381818	-	6.6	-	9.1	-	-	12	-

C. 07.15 - 07.30 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	6.7	-	5.2	-	-	-	-	11.3	-
2	6.3	-	4.9	-	-	-	-	12.6	-
3	4.8	-	5.5	-	-	-	-	10.4	-
4	7.8	-	4.5	-	-	-	-	-	-
5	6.6	-	5.2	-	-	-	-	-	-
6	6.4	-	6.2	-	-	-	-	-	-
7	4.5	-	10.2	-	-	-	-	-	-
8	5	-	11.1	-	-	-	-	-	-
9	8.8	-	6.8	-	-	-	-	-	-
10	3.8	-	7.2	-	-	-	-	-	-
11	3	-	8.8	-	-	-	-	-	-
12	6.1	-	4.3	-	-	-	-	-	-
13	10.1	-	4.9	-	-	-	-	-	-
14	4.3	-	6.5	-	-	-	-	-	-
15	4.7	-	4.9	-	-	-	-	-	-
Jumlah	88.9		96.2					34.3	
Rata-rata	5.926667		6.413333					11.43333	

D. 07.30 - 07.45 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	4	8.3	9.6	-	-	-	-	10.6	-
2	5	-	5.5	-	-	-	-	-	-
3	7.4	-	6.6	-	-	-	-	-	-
4	5.1	-	10.2	-	-	-	-	-	-
5	7.5	-	10.5	-	-	-	-	-	-
6	7.7	-	6.2	-	-	-	-	-	-
7	8	-	7.4	-	-	-	-	-	-
8	6.2	-	7.6	-	-	-	-	-	-
9	-	-	5.8	-	-	-	-	-	-
10	-	-	7.6	-	-	-	-	-	-
11	-	-	7.3	-	-	-	-	-	-
12	-	-	9.4	-	-	-	-	-	-
13	-	-	9.6	-	-	-	-	-	-
14	-	-	8.8	-	-	-	-	-	-
15	-	-	5.8	-	-	-	-	-	-
Jumlah	50.9	8.3	117.9					10.6	
Rata-rata	6.3625	8.3	7.86					10.6	

E. 07.45 - 08.00 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	7.1	-	5.8	-	9.5	-	-	11.9	-
2	10.6	-	5.3	-	-	-	-	10.7	-
3	11.6	-	5	-	-	-	-	-	-
4	12.7	-	10	-	-	-	-	-	-
5	6.4	-	7.5	-	-	-	-	-	-
6	8	-	6.2	-	-	-	-	-	-
7	7.2	-	4.8	-	-	-	-	-	-
8	6.7	-	6.7	-	-	-	-	-	-
9	8	-	8.4	-	-	-	-	-	-
10	8.4	-	11	-	-	-	-	-	-
11	7.1	-	7.7	-	-	-	-	-	-
12	9	-	7.6	-	-	-	-	-	-
13	6.7	-	8.1	-	-	-	-	-	-
14	7.4	-	8.2	-	-	-	-	-	-
15	10	-	6.7	-	-	-	-	-	-
Jumlah	126.9		109		9.5			22.6	
Rata-rata	8.46		7.266667		9.5			11.3	

F. 08.00 - 08.15 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	7.2	-	5.2	-	10	-	-	-	15.8
2	7.8	-	8.6	-	-	-	-	-	-
3	9.1	-	6.4	-	-	-	-	-	-
4	9.7	-	10.2	-	-	-	-	-	-
5	6.9	-	9.8	-	-	-	-	-	-
6	8.8	-	6.8	-	-	-	-	-	-
7	6.9	-	7.7	-	-	-	-	-	-
8	7	-	7.6	-	-	-	-	-	-
9	5.6	-	7.7	-	-	-	-	-	-
10	7.2	-	6	-	-	-	-	-	-
11	7.2	-	5.6	-	-	-	-	-	-
12	8	-	4.8	-	-	-	-	-	-
13	6	-	6.2	-	-	-	-	-	-
14	6.7	-	6.3	-	-	-	-	-	-
15	7.3	-	7.5	-	-	-	-	-	-
Jumlah	111.4		106.4		10				15.8
Rata-rata	7.426667		7.093333		10				15.8

G. 08.15 - 08.30 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	7.3	-	7.3	-	8.7	-	-	9.7	-
2	6.7	-	8.8	-	-	-	-	-	-
3	9.4	-	10.2	-	-	-	-	-	-
4	7.2	-	9.6	-	-	-	-	-	-
5	7.2	-	8.4	-	-	-	-	-	-
6	6.9	-	11.2	-	-	-	-	-	-
7	7.6	-	10.8	-	-	-	-	-	-
8	7.1	-	9.2	-	-	-	-	-	-
9	5.2	-	6.1	-	-	-	-	-	-
10	8	-	6.2	-	-	-	-	-	-
11	8.4	-	6.3	-	-	-	-	-	-
12	6.3	-	7.1	-	-	-	-	-	-
13	7.1	-	6.4	-	-	-	-	-	-
14	9	-	7.5	-	-	-	-	-	-
15	7.2	-	10.6	-	-	-	-	-	-
Jumlah	110.6		125.7		8.7			9.7	
Rata-rata	7.373333		8.38		8.7			9.7	

H. 08.30 - 8.45 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	4.9	8.5	4.6	0	0	0	0	0	0
2	5.2		13.4						
3	10.2		4.2						
4	6.3		7.5						
5	5.8		6.1						
6	7.2		8.1						
7	6.2		5.6						
8	8.2		6.1						
9	4.7		8.1						
10	6.3		5.6						
11	8		6.1						
12	7		5.8						
13	6.3		6.4						
14	6.9		6.9						
15	7		5.9						
Jumlah	100.2	8.5	100.4						
Rata-rata	6.68	8.5	6.693333						

I. 11.30 - 11.45 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	5.7	-	6.7	-	-	18.7	-	12.6	32.4
2	6.1	-	7.1	-	-	-	-	-	35.2
3	5.7	-	5.2	-	-	-	-	-	-
4	5.9	-	4.5	-	-	-	-	-	-
5	7.3	-	6.1	-	-	-	-	-	-
6	6.1	-	7.5	-	-	-	-	-	-
7	6.2	-	6.1	-	-	-	-	-	-
8	7	-	5.3	-	-	-	-	-	-
9	8.4	-	8.1	-	-	-	-	-	-
10	6.7	-	6.8	-	-	-	-	-	-
11	6.9	-	9.1	-	-	-	-	-	-
12	7.3	-	5.7	-	-	-	-	-	-
13	5.9	-	6.3	-	-	-	-	-	-
14	5.3	-	6.6	-	-	-	-	-	-
15	6.8	-	8.8	-	-	-	-	-	-
Jumlah	97.3	-	99.9	-	-	18.7	-	12.6	67.6
Rata-rata	6.486667		6.66			18.7		12.6	33.8

J. 11.45 - 12.00 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	7.7	-	7.2	-	10.3	-	-	11.3	-
2	10.2	-	6.7	-	-	-	-	-	-
3	7.5	-	6.3	-	-	-	-	-	-
4	7.5	-	8.6	-	-	-	-	-	-
5	8.2	-	7.1	-	-	-	-	-	-
6	6.9	-	8.7	-	-	-	-	-	-
7	5.5	-	6.7	-	-	-	-	-	-
8	9.2	-	5.9	-	-	-	-	-	-
9	9.1	-	10.3	-	-	-	-	-	-
10	8.4	-	9.8	-	-	-	-	-	-
11	4	-	10.1	-	-	-	-	-	-
12	6.4	-	7.5	-	-	-	-	-	-
13	7.3	-	4.2	-	-	-	-	-	-
14	6.2	-	7.4	-	-	-	-	-	-
15		-	5.1	-	-	-	-	-	-
Jumlah	104.1		111.6		10.3			11.3	
Rata-rata	7.435714		7.44		10.3			11.3	

K. 12.00 - 12.15 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	4.8	-	6.4	-	-	-	-	10.7	-
2	5.4	-	6.6	-	-	-	-	-	-
3	5.2	-	6.4	-	-	-	-	-	-
4	4.7	-	5.8	-	-	-	-	-	-
5	6.8	-	7.5	-	-	-	-	-	-
6	6.7	-	6.8	-	-	-	-	-	-
7	10.8	-	4.6	-	-	-	-	-	-
8	6.6	-	3.8	-	-	-	-	-	-
9	4.9	-	6.8	-	-	-	-	-	-
10	5.8	-	5.8	-	-	-	-	-	-
11	6.1	-	7.5	-	-	-	-	-	-
12	8.3	-	5.3	-	-	-	-	-	-
13	7.8	-	6.7	-	-	-	-	-	-
14	6.1	-	8.2	-	-	-	-	-	-
15	11.1	-	8	-	-	-	-	-	-
Jumlah	101.1		96.2					10.7	
Rata-rata	6.74		6.413333					10.7	

L. 12.15 - 12.30 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	5.7	-	3.9	-	15.2	-	-	-	32.3
2	6.1	-	5.1	-	13.5	-	-	-	-
3	7.2	-	8.2	-	12.6	-	-	-	-
4	6.3	-	5.3	-	-	-	-	-	-
5	6.3	-	5.7	-	-	-	-	-	-
6	7	-	4.8	-	-	-	-	-	-
7	12.8	-	7.1	-	-	-	-	-	-
8	16.5	-	12.1	-	-	-	-	-	-
9	8	-	11.5	-	-	-	-	-	-
10	5	-	16.8	-	-	-	-	-	-
11	11.8	-	16.4	-	-	-	-	-	-
12	5.8	-	4.8	-	-	-	-	-	-
13	6.8	-	6.7	-	-	-	-	-	-
14	5.9	-	3.1	-	-	-	-	-	-
15	5.6	-	9.5	-	-	-	-	-	-
Jumlah	116.8		121		41.3				32.3
Rata-rata	7.786667		8.066667		13.76667				32.3

M. 12.30 - 12.45 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	7.2	-	4.3	-	9	-	-	10.7	31.3
2	7.5	-	4.1	-	-	-	-	-	-
3	5.6	-	5.4	-	-	-	-	-	-
4	6.2	-	6.1	-	-	-	-	-	-
5	7.2	-	12.2	-	-	-	-	-	-
6	7.3	-	12.4	-	-	-	-	-	-
7	9.4	-	11.8	-	-	-	-	-	-
8	10.1	-	5.4	-	-	-	-	-	-
9	9	-	3.7	-	-	-	-	-	-
10	3.9	-	3.1	-	-	-	-	-	-
11	8.1	-	9.9	-	-	-	-	-	-
12	6.3	-	9.7	-	-	-	-	-	-
13	5.2	-	11.4	-	-	-	-	-	-
14	6.6	-	11	-	-	-	-	-	-
15	8	-	10.7	-	-	-	-	-	-
Jumlah	107.6		121.2		9			10.7	31.3
Rata-rata	7.173333		8.08		9			10.7	31.3

N. 12.45 - 13.00 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	7.1	-	6.3	-	-	-	-	14.2	-
2	8.4	-	5.8	-	-	-	-	12.3	-
3	7.6	-	4.3	-	-	-	-	-	-
4	5.9	-	3.3	-	-	-	-	-	-
5	7.6	-	4.1	-	-	-	-	-	-
6	4.6	-	4.9	-	-	-	-	-	-
7	9.5	-	7.1	-	-	-	-	-	-
8	6.2	-	4.9	-	-	-	-	-	-
9	4.1	-	4.6	-	-	-	-	-	-
10	4.7	-	5.1	-	-	-	-	-	-
11	5.6	-	6.2	-	-	-	-	-	-
12	6.3	-	4.1	-	-	-	-	-	-
13	7.6	-	4.8	-	-	-	-	-	-
14	8.8	-	8.9	-	-	-	-	-	-
15	6.2	-	5.1	-	-	-	-	-	-
Jumlah	100.2		79.5					26.5	
Rata-rata	6.68		5.3					13.25	

O. 13.00 - 13.15 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	5.6	10.7	8.3	-	9.8	-	-	-	-
2	6.2	-	5.7	-	-	-	-	-	-
3	3.3	-	6.8	-	-	-	-	-	-
4	5.7	-	6.1	-	-	-	-	-	-
5	6.3	-	4.2	-	-	-	-	-	-
6	4	-	6.5	-	-	-	-	-	-
7	6.4	-	6.9	-	-	-	-	-	-
8	8	-	6.1	-	-	-	-	-	-
9	7.6	-	6.6	-	-	-	-	-	-
10	7.4	-	6.4	-	-	-	-	-	-
11	4	-	3.4	-	-	-	-	-	-
12	5.2	-	3.8	-	-	-	-	-	-
13	9.3	-	6.5	-	-	-	-	-	-
14	10.4	-	7.3	-	-	-	-	-	-
15	8.3	-	6.8	-	-	-	-	-	-
Jumlah	97.7	10.7	91.4	-	9.8	-	-	-	-
Rata-rata	6.513333	10.7	6.093333	-	9.8	-	-	-	-

P. 13.15 - 13.30 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	5.2	0	13	0	0	0	0	15.3	0
2	4.9		2.8						
3	5		3.7						
4	7.9		6.4						
5	8.6		6.5						
6	13.4		6.1						
7	4.6		7.3						
8	4.8		7.8						
9	5.8		5.9						
10	6.9		5.5						
11	7.1		6.8						
12	10		3.8						
13	7.6		5.9						
14	8.8		6.4						
15	11.4		8						
Jumlah	112		95.9					15.3	
Rata-rata	7.466667		6.393333					15.3	

Q. 16.00 - 16.15 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	7.3	-	10.1	-	-	-	-	15.2	-
2	6.3	-	6.2	-	-	-	-	-	-
3	5.9	-	11.2	-	-	-	-	-	-
4	5.4	-	9.6	-	-	-	-	-	-
5	6	-	8	-	-	-	-	-	-
6	10.1	-	6.5	-	-	-	-	-	-
7	4.5	-	5.8	-	-	-	-	-	-
8	6.1	-	7.7	-	-	-	-	-	-
9	5	-	5.2	-	-	-	-	-	-
10	6.3	-	4.5	-	-	-	-	-	-
11	6	-	6.7	-	-	-	-	-	-
12	5.4	-	13.3	-	-	-	-	-	-
13	8.8	-	5.2	-	-	-	-	-	-
14		-	8.5	-	-	-	-	-	-
15		-	5.4	-	-	-	-	-	-
Jumlah	83.1	-	113.9	-	-	-	-	15.2	-
Rata-rata	6.392308	-	7.593333	-	-	-	-	15.2	-

R. 16.15 - 16.30 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	5.7	-	6.7	-	9.4	22.4	-	16.3	-
2	3.7	-	8.6	-	11.2	21.8	-	14.5	-
3	6.3	-	15.2	-	-	21.3	-	-	-
4	5.3	-	7	-	-	20.7	-	-	-
5	4.4	-	10.6	-	-	22.6	-	-	-
6	7.9	-	8.7	-	-	21.9	-	-	-
7	9.1	-	6.2	-	-	20.5	-	-	-
8	6.4	-	8.4	-	-	19.8	-	-	-
9	5.6	-	10.9	-	-	22.1	-	-	-
10	6.6	-	4.7	-	-	20.3	-	-	-
11	7.2	-	9.1	-	-	24.8	-	-	-
12	5	-	7.7	-	-	21.2	-	-	-
13	5.3	-	10	-	-	21	-	-	-
14	6.7	-	11.1	-	-	22.5	-	-	-
15		-	6.6	-	-	19.6	-	-	-
Jumlah	85.2		131.5		20.6	322.5		30.8	
Rata-rata	5.68		8.766667		10.3	21.5		15.4	

S. 16.30 - 16.45 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	3	-	9.2	-	-	23.6	-	16.3	-
2	4.4	-	6.6	-	-	21.6	-	12.6	-
3	5.8	-	11.5	-	-	20	-	18	-
4	3.4	-	6.9	-	-	21.9	-	-	-
5	3.9	-	5.8	-	-	22.5	-	-	-
6	8.3	-	8.6	-	-	-	-	-	-
7	6.2	-	7.2	-	-	-	-	-	-
8	7.1	-	5.5	-	-	-	-	-	-
9	4.1	-	7.6	-	-	-	-	-	-
10	5.6	-	11.5	-	-	-	-	-	-
11	7.8	-	7.6	-	-	-	-	-	-
12	6.7	-	9.7	-	-	-	-	-	-
13	6.6	-	7	-	-	-	-	-	-
14	8.5	-	12.7	-	-	-	-	-	-
15	6.3	-	7.8	-	-	-	-	-	-
Jumlah	87.7		125.2			109.6		46.9	
Rata-rata	5.846667		8.346667			21.92		15.63333	

T. 16.45 - 17.00 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	6.9	-	11.2	-	-	-	-	15.2	-
2	7.5	-	9	-	-	-	-	-	-
3	6.9	-	8.8	-	-	-	-	-	-
4	8.2	-	6.8	-	-	-	-	-	-
5	6.1	-	9.3	-	-	-	-	-	-
6	5.7	-	7	-	-	-	-	-	-
7	7.8	-	5.8	-	-	-	-	-	-
8	8.9	-	13.6	-	-	-	-	-	-
9	6.7	-	8.1	-	-	-	-	-	-
10	5.4	-	4.7	-	-	-	-	-	-
11	6	-	6.5	-	-	-	-	-	-
12	7.5	-	7.6	-	-	-	-	-	-
13	8.2	-	6.9	-	-	-	-	-	-
14	7.2	-	5.5	-	-	-	-	-	-
15	8	-	4.7	-	-	-	-	-	-
Jumlah	107		115.5					15.2	
Rata-rata	7.133333		7.7					15.2	

U. 17.00 - 17.15 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	14.7	-	14.4	-	-	-	-	10.6	-
2	10.5	-	7.2	-	-	-	-	12.3	-
3	9.7	-	5.7	-	-	-	-	11.7	-
4	6.2	-	7.7	-	-	-	-	13.5	-
5	8.9	-	11	-	-	-	-	-	-
6	8.7	-	10.1	-	-	-	-	-	-
7	4.7	-	7.1	-	-	-	-	-	-
8	6.9	-	14.6	-	-	-	-	-	-
9	7	-	11.4	-	-	-	-	-	-
10	8.3	-	10.1	-	-	-	-	-	-
11	8.6	-	8.5	-	-	-	-	-	-
12	6.7	-	5.3	-	-	-	-	-	-
13	8.4	-	6.8	-	-	-	-	-	-
14	9	-	7.2	-	-	-	-	-	-
15	6.3	-	8.7	-	-	-	-	-	-
Jumlah	124.6		135.8					48.1	
Rata-rata	8.306667		9.053333					12.025	

V. 17.15 - 17.30 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	10.1	-	12	-	-	-	-	13.4	-
2	6.8	-	10.3	-	-	-	-	11.7	-
3	7.7	-	5.3	-	-	-	-	-	-
4	3.5	-	10.8	-	-	-	-	-	-
5	11.7	-	10.9	-	-	-	-	-	-
6	6.6	-	6	-	-	-	-	-	-
7	5	-	9.7	-	-	-	-	-	-
8	7.9	-	11.2	-	-	-	-	-	-
9	7.6	-	10.8	-	-	-	-	-	-
10	7.8	-	5.7	-	-	-	-	-	-
11	7.4	-	6.5	-	-	-	-	-	-
12	8.6	-	5.3	-	-	-	-	-	-
13	6.8	-	7.3	-	-	-	-	-	-
14	-	-	13.6	-	-	-	-	-	-
15	-	-	11.7	-	-	-	-	-	-
Jumlah	97.5		137.1					25.1	
Rata-rata	7.5		9.14					12.55	

W. 17.30 - 17.45 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	7.9	-	6.3	-	-	21.6	-	12.3	-
2	9.4	-	4.1	-	-	19.8	-	-	-
3	9.2	-	4	-	-	-	-	-	-
4	9.1	-	8.3	-	-	-	-	-	-
5	11	-	11.7	-	-	-	-	-	-
6	10.4	-	15.9	-	-	-	-	-	-
7	5.5	-	7.5	-	-	-	-	-	-
8	6.6	-	5.5	-	-	-	-	-	-
9	7.2	-	4.6	-	-	-	-	-	-
10	5.5	-	3.8	-	-	-	-	-	-
11	8	-	8.7	-	-	-	-	-	-
12	3.4	-	4	-	-	-	-	-	-
13	5.5	-	8.8	-	-	-	-	-	-
14	3.3	-	11.7	-	-	-	-	-	-
15	6.5	-	6	-	-	-	-	-	-
Jumlah	108.5		110.9			41.4		12.3	
Rata-rata	7.233333		7.393333			20.7		12.3	

X. 17.45 - 18.00 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	8.4	-	6.1	-	8.6	22.8	-	5.7	-
2	6.8	-	5.6	-	-	21.2	-	-	-
3	6.9	-	7.6	-	-	-	-	-	-
4	9.6	-	9.2	-	-	-	-	-	-
5	5.4	-	6.4	-	-	-	-	-	-
6	5.8	-	9.9	-	-	-	-	-	-
7	5.5	-	5.1	-	-	-	-	-	-
8	7.8	-	11	-	-	-	-	-	-
9	10.7	-	5.2	-	-	-	-	-	-
10	7.6	-	6.5	-	-	-	-	-	-
11	8.8	-	10.3	-	-	-	-	-	-
12	7.5	-	8.9	-	-	-	-	-	-
13	5.5	-	7.6	-	-	-	-	-	-
14	6.3	-	4.6	-	-	-	-	-	-
15	7.1	-	7.2	-	-	-	-	-	-
Jumlah	109.7		111.2		8.6	44		5.7	
Rata-rata	7.313333		7.413333		8.6	22		5.7	

2. Arah Utara ke Selatan

A. 06.45 - 07.00 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	5.5	-	7	-	9.6	20.5	-	18.3	-
2	6	-	5	-	-	-	-	15.6	-
3	5.4	-	6	-	-	-	-	16.4	-
4	11	-	6	-	-	-	-	-	-
5	8	-	3	-	-	-	-	-	-
6	5	-	6.2	-	-	-	-	-	-
7	5.2	-	4.3	-	-	-	-	-	-
8	10.3	-	4.2	-	-	-	-	-	-
9	5.2	-	6	-	-	-	-	-	-
10	5	-	4.4	-	-	-	-	-	-
11	4	-	5	-	-	-	-	-	-
12	6	-	6	-	-	-	-	-	-
13	6.6	-	6.2	-	-	-	-	-	-
14	4.7	-	5.7	-	-	-	-	-	-
15	7	-	6.6	-	-	-	-	-	-
Jumlah	94.9	-	81.6	-	9.6	20.5	-	50.3	-
Rata-rata	6.326667	-	5.44	-	9.6	20.5	-	16.76667	-

B. 07.00 - 07.15 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	6.6	8.2	5	-	8.8	-	14.4	9	-
2	8	-	4	-	-	-	-	9.2	-
3	8.9	-	5	-	-	-	-	-	-
4	10.6	-	6	-	-	-	-	-	-
5	5.3	-	7.2	-	-	-	-	-	-
6	6.6	-	8	-	-	-	-	-	-
7	8.4	-	6.4	-	-	-	-	-	-
8	8.3	-	7	-	-	-	-	-	-
9	11.3	-	8.2	-	-	-	-	-	-
10	9	-	8.7	-	-	-	-	-	-
11	7	-	5	-	-	-	-	-	-
12	5.6	-	6.2	-	-	-	-	-	-
13	8.3	-	15	-	-	-	-	-	-
14	7.6	-	6	-	-	-	-	-	-
15	7.8	-	7.1	-	-	-	-	-	-
Jumlah	119.3	8.2	104.8		8.8		14.4	18.2	
Rata-rata	7.953333	8.2	6.986667		8.8		14.4	9.1	

C. 07.15 - 07.30 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	20	-	6.2	10	-	21.8	-	8	-
2	21	-	7.2	10.2	-	20	-	9.2	-
3	8.4	-	8.1	10.5	-	22.5	-	14.2	-
4	8	-	3.4	11.2	-	-	-	-	-
5	7.2	-	6.1	11	-	-	-	-	-
6	7	-	6.3	-	-	-	-	-	-
7	6	-	5	-	-	-	-	-	-
8	7	-	6	-	-	-	-	-	-
9	5.7	-	5.2	-	-	-	-	-	-
10	10	-	5.7	-	-	-	-	-	-
11	6	-	5.8	-	-	-	-	-	-
12	6.3	-	4.9	-	-	-	-	-	-
13	7	-	6.2	-	-	-	-	-	-
14	8	-	8	-	-	-	-	-	-
15	8	-	8.2	-	-	-	-	-	-
Jumlah	135.6		92.3	52.9		64.3		31.4	
Rata-rata	9.04		6.153333	10.58		21.43333		10.46667	

D. 07.30 - 07.45 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	6.2	-	6	-	-	22.3	18.6	10.4	-
2	9	-	7	-	-	-	-	8	-
3	6	-	6.2	-	-	-	-	8.9	-
4	5.6	-	5.8	-	-	-	-	9.4	-
5	8	-	6.7	-	-	-	-	11.3	-
6	7	-	6.4	-	-	-	-	-	-
7	6.7	-	7.3	-	-	-	-	-	-
8	5.6	-	5.3	-	-	-	-	-	-
9	7.5	-	7	-	-	-	-	-	-
10	5.8	-	6.7	-	-	-	-	-	-
11	6.5	-	7.2	-	-	-	-	-	-
12	7.3	-	6.3	-	-	-	-	-	-
13	7	-	7.4	-	-	-	-	-	-
14	6	-	6.7	-	-	-	-	-	-
15	8	-	8.1	-	-	-	-	-	-
Jumlah	102.2		100.1			22.3	18.6	48	
Rata-rata	6.813333		6.673333			22.3	18.6	9.6	

E. 07.45 - 08.00 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	6.5	-	8	8.4	-	-	-	12.3	-
2	6	-	7.8	8	-	-	-	11	-
3	7	-	7	-	-	-	-	10.3	-
4	5	-	7	-	-	-	-	-	-
5	11	-	8	-	-	-	-	-	-
6	6	-	6.7	-	-	-	-	-	-
7	7	-	5.4	-	-	-	-	-	-
8	7.5	-	6	-	-	-	-	-	-
9	5	-	6.4	-	-	-	-	-	-
10	10	-	5.8	-	-	-	-	-	-
11	11	-	6.7	-	-	-	-	-	-
12	11	-	6	-	-	-	-	-	-
13	5.7	-	6.6	-	-	-	-	-	-
14	5.6	-	7.4	-	-	-	-	-	-
15	6	-	5.4	-	-	-	-	-	-
Jumlah	5.7		100.2	16.4				33.6	
Rata-rata	0.38		6.68	8.2				11.2	

F. 08.00 - 08.15 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	6	-	5.7	-	-	20	-	8	-
2	4	-	6.2	-	-	21.3	-	8.5	-
3	6.5	-	6.4	-	-	-	-	9	-
4	8	-	7.8	-	-	-	-	8	-
5	8.2	-	7.5	-	-	-	-	9.4	-
6	4.7	-	7.8	-	-	-	-	-	-
7	4.5	-	7.2	-	-	-	-	-	-
8	7.9	-	6.8	-	-	-	-	-	-
9	5	-	7.6	-	-	-	-	-	-
10	4.2	-	5.1	-	-	-	-	-	-
11	4.8	-	5.4	-	-	-	-	-	-
12	4.4	-	5.7	-	-	-	-	-	-
13	6.2	-	6.9	-	-	-	-	-	-
14	5.4	-	9.9	-	-	-	-	-	-
15	7.8	-	7.1	-	-	-	-	-	-
Jumlah	87.6		103.1			41.3		42.9	
Rata-rata	5.84		6.873333			20.65		8.58	

G. 08.15 - 08.30 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	5	-	6.9	-	10	19.5	-	8	21
2	4.7	-	8.2	-	-	21	-	8	-
3	3.7	-	6.1	-	-	-	-	6.2	-
4	7	-	6.7	-	-	-	-	7.4	-
5	6.5	-	7.2	-	-	-	-	-	-
6	5	-	6.4	-	-	-	-	-	-
7	5.2	-	9	-	-	-	-	-	-
8	9.5	-	6.7	-	-	-	-	-	-
9	9	-	10.4	-	-	-	-	-	-
10	8	-	5.9	-	-	-	-	-	-
11	7	-	7.1	-	-	-	-	-	-
12	4.6	-	5.8	-	-	-	-	-	-
13	4	-	6.5	-	-	-	-	-	-
14	5	-	8	-	-	-	-	-	-
15	7	-	5	-	-	-	-	-	-
Jumlah	91.2		105.9		10	40.5		29.6	21
Rata-rata	6.08		7.06		10	20.25		7.4	21

H. 08.30 - 08.45 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	5.8	-	5.7	-	-	20.7	-	8	-
2	7.4	-	11.9	-	-	-	-	9.6	-
3	8.5	-	7.4	-	-	-	-	-	-
4	8.2	-	7	-	-	-	-	-	-
5	8	-	6.5	-	-	-	-	-	-
6	9	-	8.2	-	-	-	-	-	-
7	8.2	-	7.8	-	-	-	-	-	-
8	7.2	-	5.6	-	-	-	-	-	-
9	6	-	7.3	-	-	-	-	-	-
10	6.8	-	4.9	-	-	-	-	-	-
11	9.5	-	6.2	-	-	-	-	-	-
12	6.3	-	8.2	-	-	-	-	-	-
13	4.4	-	6.3	-	-	-	-	-	-
14	5.2	-	9	-	-	-	-	-	-
15	4.8	-	7.7	-	-	-	-	-	-
Jumlah	105.3		109.7			20.7		17.6	
Rata-rata	7.02		7.313333			20.7		8.8	

I. 11.30 - 11.45 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	7.3	-	7.3	-	16.6	19.3	-	10	-
2	8	-	9.6	-	6.7	-	-	-	-
3	7.4	-	7	-	-	-	-	-	-
4	8.2	-	7.3	-	-	-	-	-	-
5	8.9	-	7.2	-	-	-	-	-	-
6	9.2	-	7	-	-	-	-	-	-
7	7.6	-	5.7	-	-	-	-	-	-
8	6.8	-	5.5	-	-	-	-	-	-
9	5.6	-	8.4	-	-	-	-	-	-
10	9.5	-	14.2	-	-	-	-	-	-
11	6.1	-	13.3	-	-	-	-	-	-
12	6.7	-	10.2	-	-	-	-	-	-
13	9.1	-	10.5	-	-	-	-	-	-
14	15	-	7.8	-	-	-	-	-	-
15	9.5	-	6.2	-	-	-	-	-	-
Jumlah	124.9		127.2		23.3	19.3		10	
Rata-rata	8.326667		8.48		11.65	19.3		10	

J. 11.45 - 12.00 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	8	-	8.7	-	7.4	20	-	8	-
2	7	-	7.3	-	-	-	-	-	-
3	8.5	-	8.2	-	-	-	-	-	-
4	9	-	4.6	-	-	-	-	-	-
5	7.2	-	8.9	-	-	-	-	-	-
6	7.5	-	12.75	-	-	-	-	-	-
7	6.5	-	7.9	-	-	-	-	-	-
8	7	-	6.2	-	-	-	-	-	-
9	8.7	-	8.3	-	-	-	-	-	-
10	10.2	-	10.4	-	-	-	-	-	-
11	5.2	-	6.6	-	-	-	-	-	-
12	7.8	-	8	-	-	-	-	-	-
13	6.8	-	7.7	-	-	-	-	-	-
14	8	-	9.8	-	-	-	-	-	-
15	7.6	-	9	-	-	-	-	-	-
Jumlah	115		124.35		7.4	20		8	
Rata-rata	7.666667		8.29		7.4	20		8	

K. 12.00 - 12.15 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	5	-	6	-	7	21	-	8	21
2	8	-	7.6	-	6	19.6	-	-	-
3	7	-	11.1	-	10	20	-	-	-
4	9.8	-	12.1	-	-	22	-	-	-
5	7.3	-	10.7	-	-	19.4	-	-	-
6	6.9	-	6.7	-	-	20	-	-	-
7	9	-	5.6	-	-	-	-	-	-
8	7.5	-	8.1	-	-	-	-	-	-
9	7.4	-	6.4	-	-	-	-	-	-
10	8	-	9	-	-	-	-	-	-
11	4.6	-	9.2	-	-	-	-	-	-
12	7.8	-	8	-	-	-	-	-	-
13	7.5	-	10	-	-	-	-	-	-
14	8.5	-	9	-	-	-	-	-	-
15	7.6	-	6.7	-	-	-	-	-	-
Jumlah	111.9		126.2		23	122		8	21
Rata-rata	7.46		8.413333		7.666667	20.33333		8	21

L. 12.15 - 12.30 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	9.5	-	5.8	-	5.8	19.4	-	17.5	-
2	8.5	-	8.2	-	-	-	-	18.3	-
3	7.6	-	6.9	-	-	-	-	-	-
4	8.3	-	6	-	-	-	-	-	-
5	7.7	-	8.6	-	-	-	-	-	-
6	5.5	-	6.6	-	-	-	-	-	-
7	9.8	-	10.8	-	-	-	-	-	-
8	10	-	6.1	-	-	-	-	-	-
9	10	-	6.8	-	-	-	-	-	-
10	9.5	-	7.9	-	-	-	-	-	-
11	14.5	-	4.1	-	-	-	-	-	-
12	8.8	-	5.4	-	-	-	-	-	-
13	8	-	9.5	-	-	-	-	-	-
14	6.9	-	7.4	-	-	-	-	-	-
15	8.5	-	7.6	-	-	-	-	-	-
Jumlah	133.1		107.7		5.8	19.4		35.8	
Rata-rata	8.873333		7.18		5.8	19.4		17.9	

M. 12.30 - 12.45 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	7.2	-	6.1	-	9	20.3	19.4	9.5	-
2	10.5	-	9.4	-	-	21	-	10.7	-
3	9	-	10.3	-	-	-	-	-	-
4	8.5	-	7	-	-	-	-	-	-
5	8	-	6.1	-	-	-	-	-	-
6	8.5	-	7.5	-	-	-	-	-	-
7	9.2	-	4.8	-	-	-	-	-	-
8	6.4	-	6.7	-	-	-	-	-	-
9	7	-	4	-	-	-	-	-	-
10	4.6	-	6.5	-	-	-	-	-	-
11	8.2	-	4.9	-	-	-	-	-	-
12	8.6	-	9.8	-	-	-	-	-	-
13	7.6	-	6.4	-	-	-	-	-	-
14	7.5	-	5.5	-	-	-	-	-	-
15	6.2	-	4.8	-	-	-	-	-	-
Jumlah	117		99.8		9	41.3	19.4	20.2	
Rata-rata	7.8		6.653333		9	20.65	19.4	10.1	

N. 12.45 - 13.00 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	8.7	-	6.9	-	8.6	21	-	9.2	-
2	8.3	-	6.4	-	8	-	-	-	-
3	6.8	-	5.9	-	7.2	-	-	-	-
4	7.9	-	8.5	-	-	-	-	-	-
5	8.2	-	6.5	-	-	-	-	-	-
6	7.3	-	7.5	-	-	-	-	-	-
7	10	-	7.4	-	-	-	-	-	-
8	5.2	-	8.4	-	-	-	-	-	-
9	6.7	-	4.4	-	-	-	-	-	-
10	8.7	-	7	-	-	-	-	-	-
11	6.9	-	6.6	-	-	-	-	-	-
12	6.8	-	4.9	-	-	-	-	-	-
13	7.2	-	8.6	-	-	-	-	-	-
14	8.4	-	3.5	-	-	-	-	-	-
15	7.2	-	5.3	-	-	-	-	-	-
Jumlah	111.4		97.8		23.8	21		9.2	
Rata-rata	7.426667		6.52		7.933333	21		9.2	

O. 13.00 - 13.15 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	8.3	-	6.2	-	9.2	20.7	-	11.5	-
2	6.8	-	3.7	-	8	-	-	-	-
3	7.9	-	8.4	-	-	-	-	-	-
4	7.3	-	6	-	-	-	-	-	-
5	8.2	-	6.6	-	-	-	-	-	-
6	10	-	5.8	-	-	-	-	-	-
7	5.2	-	8.6	-	-	-	-	-	-
8	6.7	-	6.1	-	-	-	-	-	-
9	8.7	-	4.4	-	-	-	-	-	-
10	6.9	-	5.4	-	-	-	-	-	-
11	6.8	-	14.2	-	-	-	-	-	-
12	7.2	-	7	-	-	-	-	-	-
13	8.4	-	6.5	-	-	-	-	-	-
14	7.2	-	7.4	-	-	-	-	-	-
15	5.8	-	6.1	-	-	-	-	-	-
Jumlah	111.4		102.4		17.2	20.7		11.5	
Rata-rata	7.426667		6.826667		8.6	20.7		11.5	

P. 13.15 - 13.30 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	9.5	-	10.4	-	5.3	18.6	-	12.5	-
2	12.5	-	6.7	-	-	-	-	13.2	-
3	9.2	-	7	-	-	-	-	-	-
4	6.7	-	12.9	-	-	-	-	-	-
5	7.2	-	5.9	-	-	-	-	-	-
6	13	-	15.3	-	-	-	-	-	-
7	10.5	-	7.9	-	-	-	-	-	-
8	7.8	-	5.5	-	-	-	-	-	-
9	5.2	-	4.6	-	-	-	-	-	-
10	13	-	6.7	-	-	-	-	-	-
11	6.5	-	4.3	-	-	-	-	-	-
12	11	-	5.3	-	-	-	-	-	-
13	6.5	-	3.2	-	-	-	-	-	-
14	10.2	-	5.3	-	-	-	-	-	-
15	8.7	-	7.2	-	-	-	-	-	-
Jumlah	137.5		108.2		5.3	18.6		25.7	
Rata-rata	9.166667		7.213333		5.3	18.6		12.85	

Q. 16.00 - 16.15 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	9.5	-	7.6	-	-	21	-	12.4	-
2	9	-	6.5	-	-	19.7	-	11	-
3	7	-	12.2	-	-	20.4	-	10.8	-
4	7.5	-	7.1	-	-	-	-	-	-
5	6.2	-	5.5	-	-	-	-	-	-
6	8.5	-	9.3	-	-	-	-	-	-
7	5.7	-	8.7	-	-	-	-	-	-
8	8	-	7.4	-	-	-	-	-	-
9	8.2	-	7.2	-	-	-	-	-	-
10	5.5	-	8.7	-	-	-	-	-	-
11	7.2	-	6.8	-	-	-	-	-	-
12	5.7	-	8.5	-	-	-	-	-	-
13	6	-	4	-	-	-	-	-	-
14	5.2	-	4.2	-	-	-	-	-	-
15	5.5	-	5.9	-	-	-	-	-	-
Jumlah	104.7		109.6			61.1		34.2	
Rata-rata	6.98		7.306667			20.36667		11.4	

R. 16.15 - 16.30 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	8	-	5.1	-	-	20	-	9.2	-
2	7.2	-	3.3	-	-	21.2	-	7.5	-
3	5.6	-	10.3	-	-	19.5	-	10	-
4	7.5	-	6.1	-	-	-	-	-	-
5	9.3	-	10.8	-	-	-	-	-	-
6	8.6	-	8.3	-	-	-	-	-	-
7	6.2	-	11	-	-	-	-	-	-
8	12.2	-	9.8	-	-	-	-	-	-
9	6.2	-	5.5	-	-	-	-	-	-
10	6	-	3.4	-	-	-	-	-	-
11	7.6	-	6.9	-	-	-	-	-	-
12	10.5	-	8.9	-	-	-	-	-	-
13	7.6	-	9.6	-	-	-	-	-	-
14	6.3	-	8.2	-	-	-	-	-	-
15	7.8	-	6.7	-	-	-	-	-	-
Jumlah	116.6		113.9			60.7		26.7	
Rata-rata	7.773333		7.593333			20.23333		8.9	

S. 16.30 - 16.45 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	6.5	-	7.9	-	13.9	-	-	-	21.4
2	7.8	-	14.4	-	-	-	-	-	24.4
3	5.3	-	13	-	-	-	-	-	-
4	8.2	-	9.4	-	-	-	-	-	-
5	5.2	-	8.1	-	-	-	-	-	-
6	6.2	-	4.4	-	-	-	-	-	-
7	8.2	-	8.2	-	-	-	-	-	-
8	8.6	-	7.3	-	-	-	-	-	-
9	7.5	-	4.6	-	-	-	-	-	-
10	8.2	-	7.7	-	-	-	-	-	-
11	7.6	-	18.4	-	-	-	-	-	-
12	6.5	-	6.4	-	-	-	-	-	-
13	8.3	-	10	-	-	-	-	-	-
14	8	-	7.2	-	-	-	-	-	-
15	8.5	-	7.6	-	-	-	-	-	-
Jumlah	110.6		134.6		13.9				45.8
Rata-rata	7.373333		8.973333		13.9				22.9

T. 16.45 - 17.00 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	8	-	8.6	-	-	21.3	-	8.5	-
2	8.5	-	8.1	-	-	20	-	6.8	-
3	6.7	-	7.4	-	-	19.4	-	8.5	-
4	7.2	-	6.7	-	-	21.7	-	-	-
5	5.5	-	9.5	-	-	-	-	-	-
6	6.5	-	7.5	-	-	-	-	-	-
7	7.7	-	15.7	-	-	-	-	-	-
8	7.2	-	7.7	-	-	-	-	-	-
9	5.4	-	5.8	-	-	-	-	-	-
10	5.2	-	5.7	-	-	-	-	-	-
11	6.4	-	5.2	-	-	-	-	-	-
12	6.5	-	6.4	-	-	-	-	-	-
13	7.2	-	5.9	-	-	-	-	-	-
14	7.8	-	6.1	-	-	-	-	-	-
15	8	-	7.4	-	-	-	-	-	-
Jumlah	103.8		113.7			82.4		23.8	
Rata-rata	6.92		7.58			20.6		7.933333	

U. 17.00 - 17.15 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	5.6	-	7.3	-	9	-	-	9.5	-
2	6.2	-	12.2	-	-	-	-	8.5	-
3	7.6	-	4.3	-	-	-	-	-	-
4	11.5	-	7.8	-	-	-	-	-	-
5	9.6	-	8.9	-	-	-	-	-	-
6	8.3	-	15.4	-	-	-	-	-	-
7	6.7	-	6.8	-	-	-	-	-	-
8	5.8	-	6.5	-	-	-	-	-	-
9	6.5	-	7.5	-	-	-	-	-	-
10	7.6	-	9.4	-	-	-	-	-	-
11	5.8	-	10.3	-	-	-	-	-	-
12	6.2	-	7	-	-	-	-	-	-
13	7.5	-	7	-	-	-	-	-	-
14	8	-	5.3	-	-	-	-	-	-
15	6	-	5.4	-	-	-	-	-	-
Jumlah	108.9		121.1		9			18	
Rata-rata	7.26		8.073333		9			9	

V. 17.15 - 17.30 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	6.2	-	6.3	-	-	-	-	9.6	-
2	5.5	-	7.1	-	-	-	-	11.3	-
3	8	-	10.7	-	-	-	-	-	-
4	7.2	-	7.9	-	-	-	-	-	-
5	8.8	-	8.7	-	-	-	-	-	-
6	9.2	-	4.3	-	-	-	-	-	-
7	8.5	-	10.1	-	-	-	-	-	-
8	7.5	-	8	-	-	-	-	-	-
9	7	-	8.1	-	-	-	-	-	-
10	6.2	-	7.6	-	-	-	-	-	-
11	6.5	-	6.7	-	-	-	-	-	-
12	8.2	-	7.9	-	-	-	-	-	-
13	7.6	-	4.9	-	-	-	-	-	-
14	9.2	-	8.9	-	-	-	-	-	-
15	6.3	-	4.4	-	-	-	-	-	-
Jumlah	111.9		111.6					20.9	
Rata-rata	7.46		7.44					10.45	

W. 17.30 - 17.45 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	9.5	-	6.5	-	-	-	-	-	34
2	8.5	-	6.6	-	-	-	-	-	-
3	5.9	-	7.9	-	-	-	-	-	-
4	6.3	-	6.4	-	-	-	-	-	-
5	7.2	-	5.7	-	-	-	-	-	-
6	6	-	6.5	-	-	-	-	-	-
7	7.5	-	4.8	-	-	-	-	-	-
8	7	-	5.5	-	-	-	-	-	-
9	8.8	-	6.7	-	-	-	-	-	-
10	9	-	7.5	-	-	-	-	-	-
11	9.2	-	4.6	-	-	-	-	-	-
12	6.5	-	3.4	-	-	-	-	-	-
13	6.8	-	5	-	-	-	-	-	-
14	8	-	5.3	-	-	-	-	-	-
15	8.2	-	6.1	-	-	-	-	-	-
Jumlah	114.4		88.5						34
Rata-rata	7.626667		5.9						34

X. 17.45 - 18.00 WIB

	Mobil	Becak Motor	Motor	Bus	Truck	Pejalan	Becak	Sepeda	Gerobak
1	5.5	-	5.1	-	5.3	-	-	8.5	-
2	6.3	-	4.4	-	-	-	-	9.2	-
3	5.2	-	4.3	-	-	-	-	9.2	-
4	7	-	3.3	-	-	-	-	9.2	-
5	6.2	-	4	-	-	-	-	10.2	-
6	7	-	7.4	-	-	-	-	8.9	-
7	6	-	5.6	-	-	-	-	-	-
8	8.5	-	5.2	-	-	-	-	-	-
9	7.5	-	6.4	-	-	-	-	-	-
10	6.3	-	7.6	-	-	-	-	-	-
11	6	-	6.9	-	-	-	-	-	-
12	6.2	-	5.2	-	-	-	-	-	-
13	6.5	-	6.1	-	-	-	-	-	-
14	6.3	-	11.3	-	-	-	-	-	-
15	5.7	-	3.5	-	-	-	-	-	-
Jumlah	96.2		86.3		5.3			55.2	
Rata-rata	6.413333		5.753333		5.3			9.2	

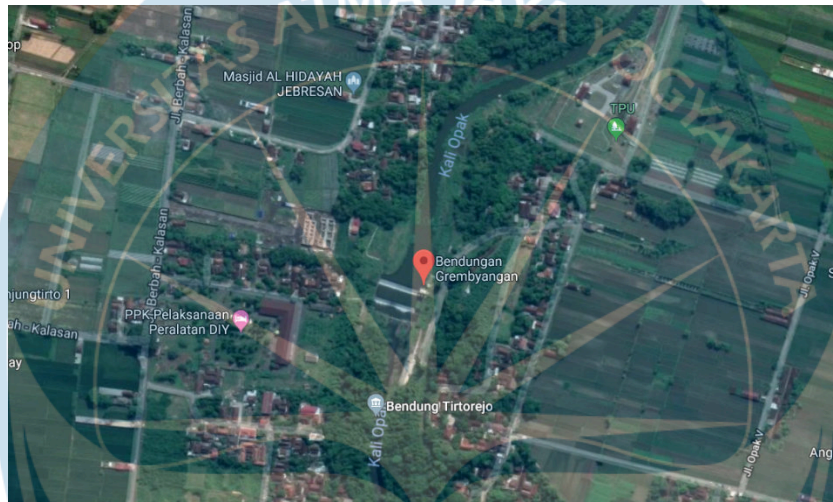


## Lampiran 17. Ruang lingkup bendung Gremyangan

Ruang lingkup pada Laporan ini adalah perencanaan bendung dengan data sebagai berikut:

1. Nama Bendung : Bendung Gremyangan
2. Lokasi : Madurejo, Sleman, Yogyakarta
3. Koordinat :  $-7^{\circ}79047S$   
 $110^{\circ}46641"E$

Gambar :

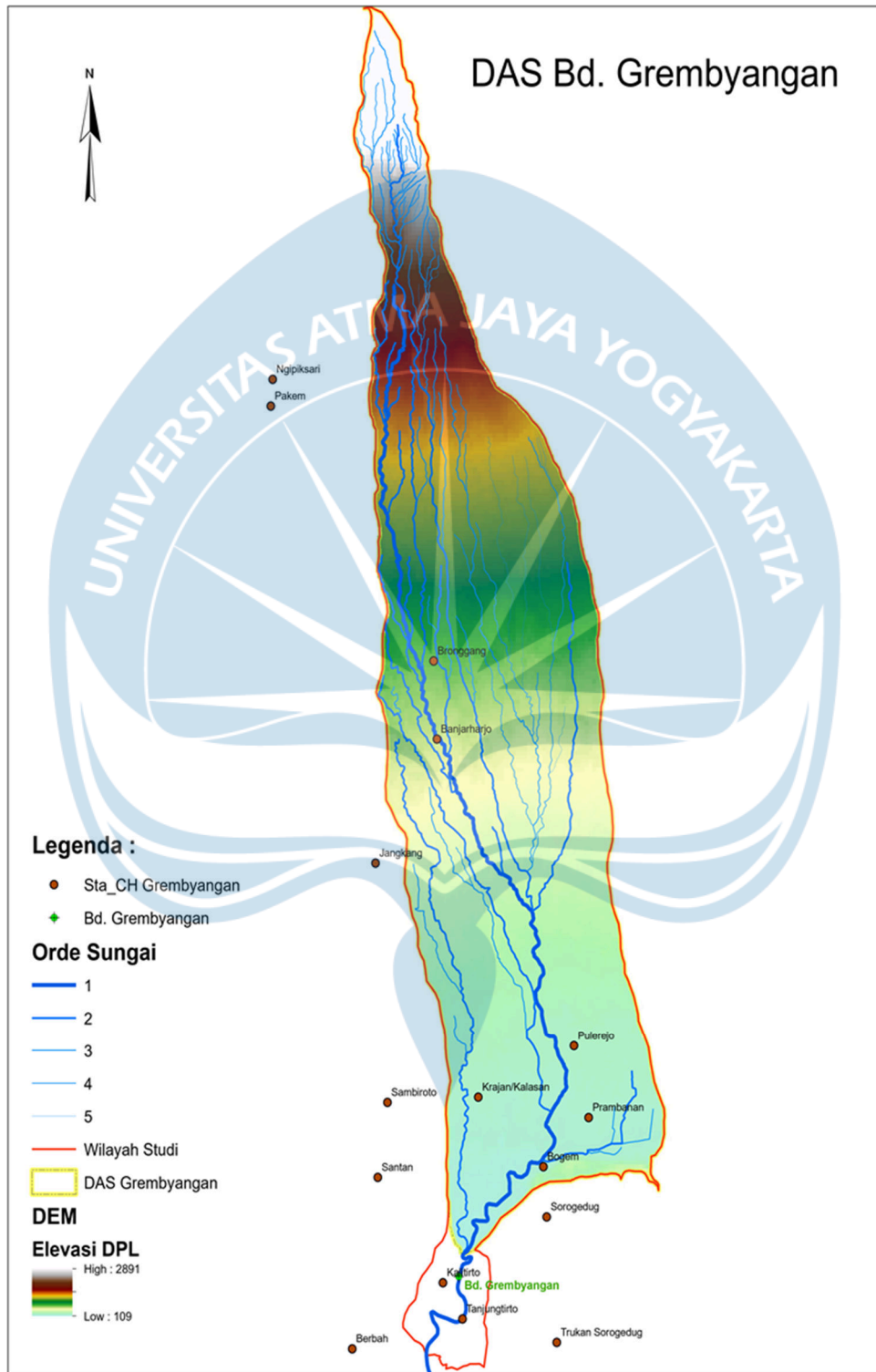




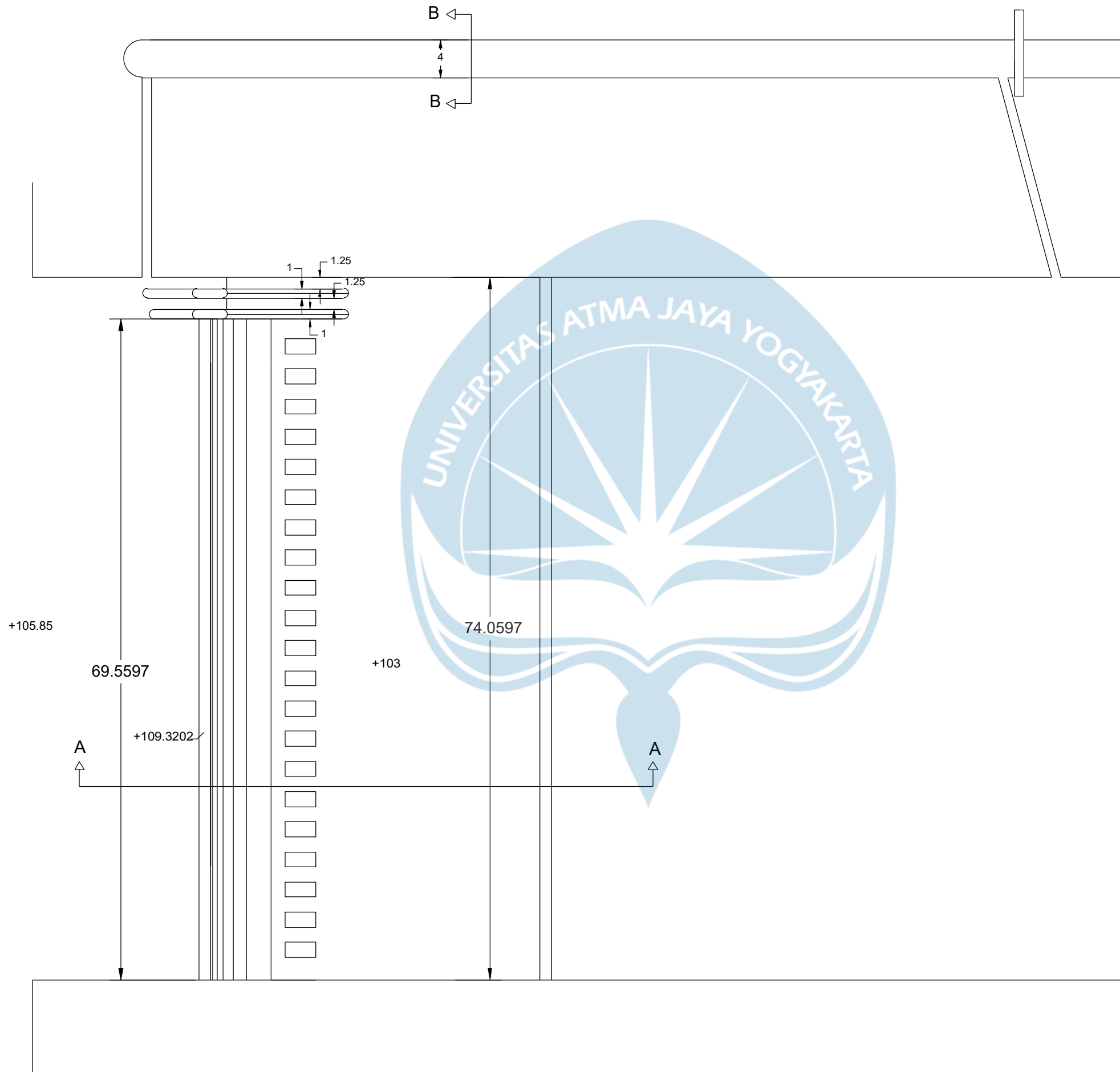
**Lampiran 18.** Gambar poligon *thiessen* DAS bendung Grembyangan



Lampiran 19. Gambar DAS bendung Gremyangan



Lampiran 20. Gambar Teknik Bendung Grembyangan



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BANGUNAN AIR**



PROGRAM STUDI  
TEKNIK SIPIL  
FAKULTAS TEKNIK  
UNIVERSITAS ATMAJAYA  
YOGYAKARTA

Dosen:

**Dr. Tania Edna Bhakty**

Disusun  
Oleh:

**Kristian Nodi A**  
(160216462)  
**Michael Tangguh W.A**  
(160216489)  
**Edo Duardo**  
(160216494)  
**Erwin**  
(160216568)  
**Yoshua Yordan D**  
(160216570)

Gambar:

Denah Bendung

Skala:

1 : 450

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BANGUNAN AIR**



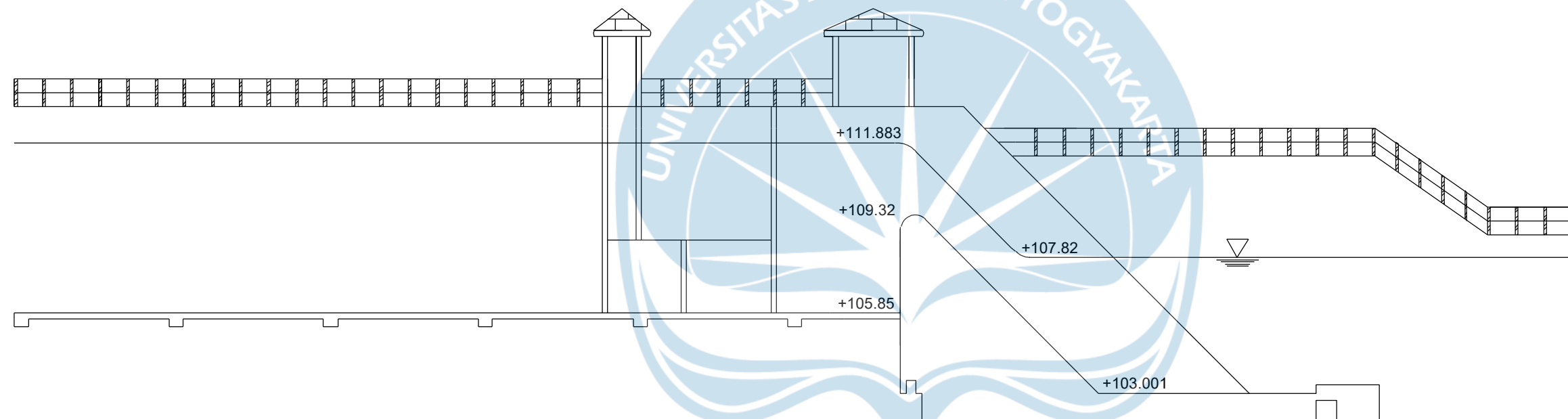
PROGRAM STUDI  
TEKNIK SIPIL  
FAKULTAS TEKNIK  
UNIVERSITAS ATMAJAYA  
YOGYAKARTA

Dosen:  
**Dr. Tania Edna Bhakty**

Disusun  
Oleh:  
**Kristian Nodi A**  
(160216462) **Michael**  
**Tangguh W.A**  
(160216489)  
**Edo Duardo**  
(160216494)  
**Erwin**  
(160216568)  
**Yoshua Yordan D**  
(160216570)

Gambar:  
Potongan Bendung A - A

Skala:  
1 : 200



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BANGUNAN AIR**



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FAKULTAS TEKNIK  
UNIVERSITAS ATMAJAYA  
YOGYAKARTA

Dosen:

**Dr. Tania Edna Bhakty**

Disusun  
Oleh: **Kristian  
Nodi A**  
(160216462)

**Michael Tangguh W.A**  
(160216489) **Edo  
Duardo**  
(160216494)

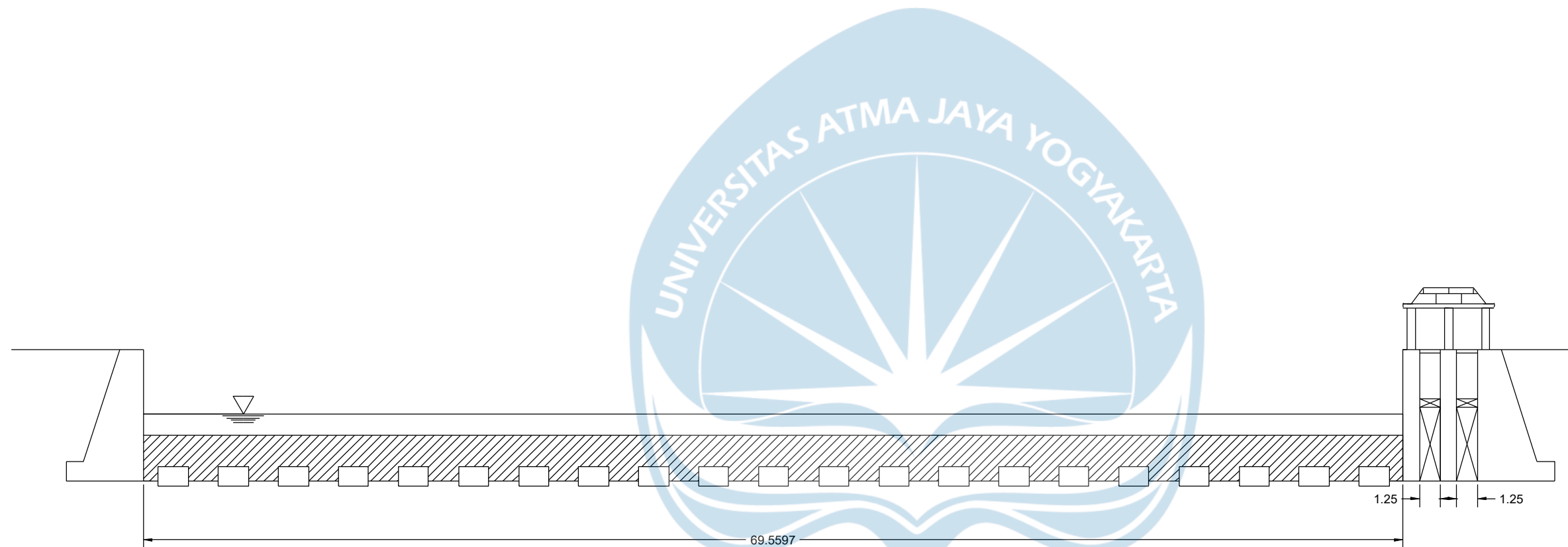
**Erwin**  
(160216568)  
**Yoshua Yordan D**  
(160216570)

Gambar:

Tampak Depan

Skala:

1 : 300



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BANGUNAN AIR**



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FAKULTAS TEKNIK  
UNIVERSITAS ATMAJAYA  
YOGYAKARTA

Dosen:

**Dr. Tania Edna Bhakty**

Disusun

Oleh: **Kristian**

**Nodi A**

(160216462)

**Michael Tangguh W.A**

(160216489)

**Edo Duardo**

(160216494)

**Erwin**

(160216568)

**Yoshua Yordan D**

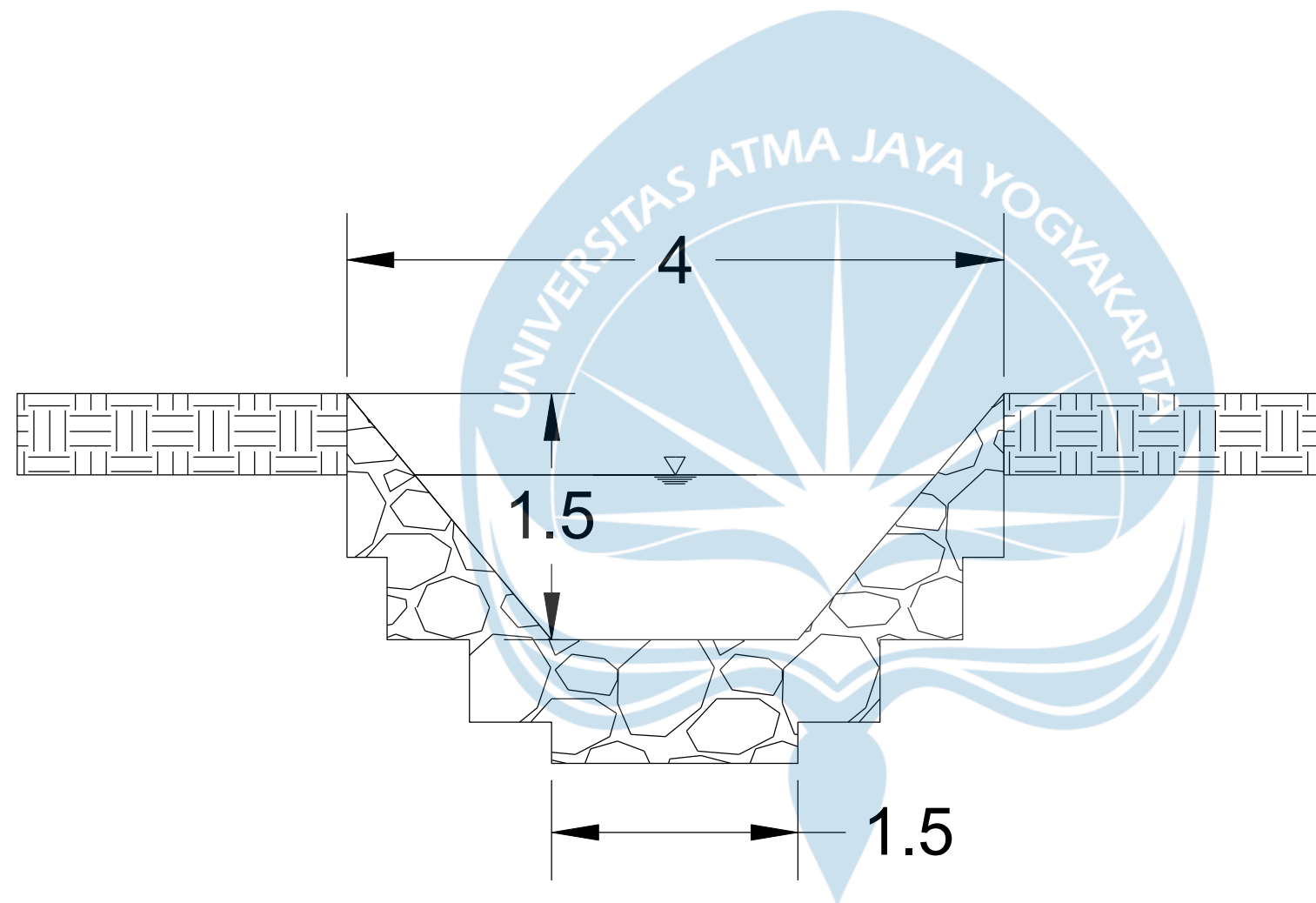
(160216570)

Gambar:

Potongan Kantong Lumpur  
B - B

Skala:

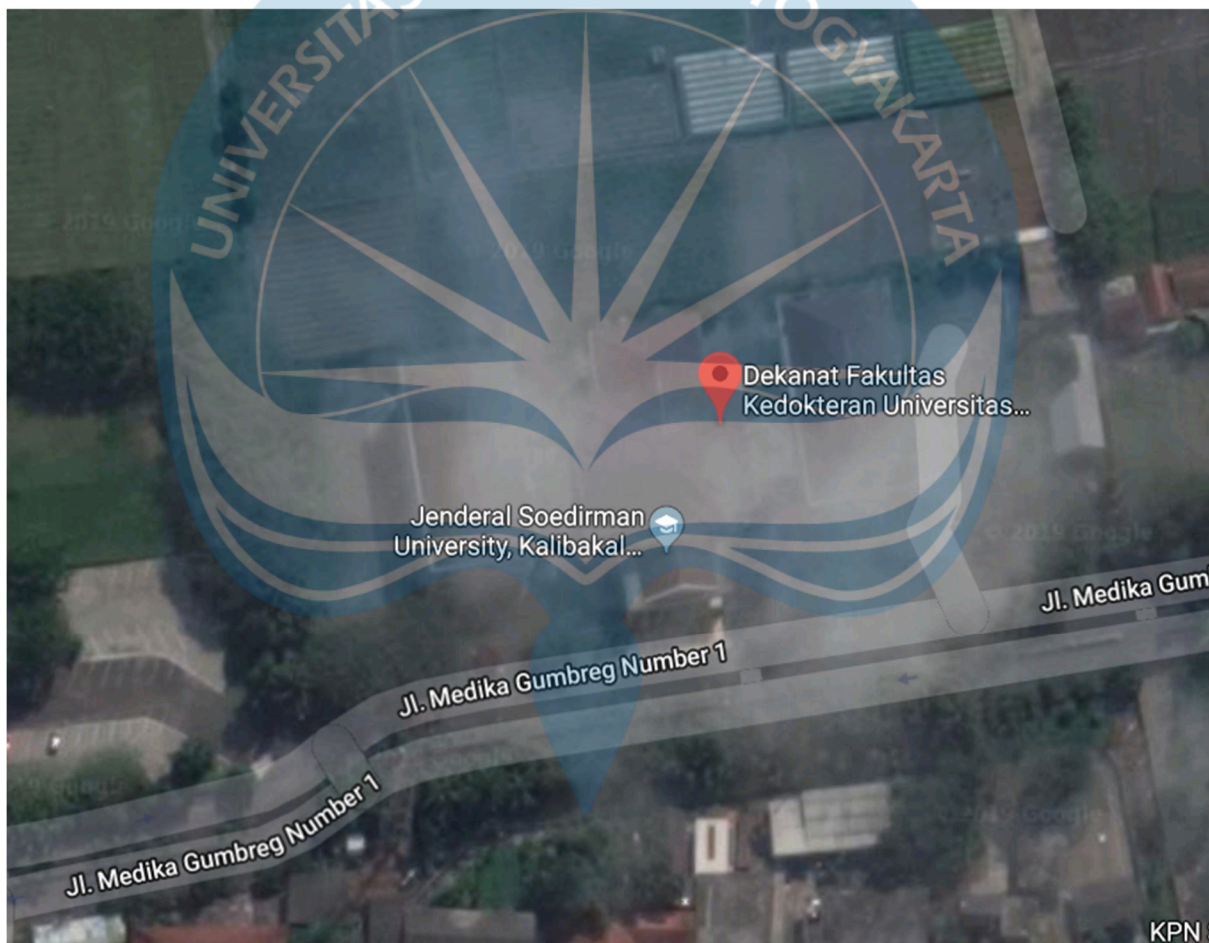
1 : 40



## Lampiran 21. Denah Lokasi Proyek

Pembangunan Gedung Pendidikan FKIK, Universitas Jenderal Soedirman Purwokerto ini beralamat di Jl. Dr. Gumbreg, Mersi, Kec. Purwokerto Tim., Kabupaten Banyumas, Jawa Tengah 53112. Lokasi ini secara geografis memiliki batas-batas wilayah sebagai berikut :

Sebelah Utara : Persawahan  
Sebelah Selatan : Kalibakal Campus  
Sebelah Timur : Parkiran  
Sebelah Barat : Warung



**Lampiran 22. Bill of quantity**

No	Uraian Pekerjaan	Volume		Harga Satuan Rp.	Jumlah Harga Rp.
A.	PEKERJAAN PERSIAPAN :				
	Pembersihan Lapangan	3367.2	m2	Rp25,000.00	Rp84,180,000.00
	Bouwplank	119.2	m'	Rp133,899.00	Rp15,960,760.80
	Pagar proyek dari seng tingg 1,8 m'	238.4	m'	Rp806,897.60	Rp192,364,387.84
	total				Rp292,505,148.64

No	Uraian Pekerjaan	Volume		Harga Satuan Rp.	Jumlah Harga Rp.
B.	PEKERJAAN FONDASI, STRUKTUR DAN ATAP :				
I	PEKERJAAN TANAH				
	Galian Tanah Struktur	482.232	m3	Rp144,000.00	Rp69,441,408.00
	Urug Kembali	151.9853905	m3	Rp48,000.00	Rp7,295,298.75
	total				Rp76,736,706.75

No	Uraian Pekerjaan	Volume		Harga Satuan Rp.	Jumlah Harga Rp.
II	PEKERJAAN BETON BERTULANG				
A.	PONDASI				
	Pekerjaan Pondasi Batu Belah	85.9232	m3	Rp929,203.20	Rp79,840,112.39
	Pekerjaan Pondasi Foot Plat P1				
	Beton $f_c = \dots$ Mpa	35.4618093	m3	Rp1,139,693.25	Rp40,415,584.84
	Besi Tulangan D22	3969.8368	kg	Rp11,129.00	Rp44,180,313.75
	Besi Tulangan P10 K1	567.4382952	kg	Rp11,129.00	Rp6,315,020.79
	Besi Tulangan P10 K2	189.1460984	kg	Rp11,129.00	Rp2,105,006.93
	Bekesting	36.96	m2	Rp297,467.05	Rp10,994,382.17
	Pekerjaan Pondasi Foot Plat P2				
	Beton $f_c = \dots$ Mpa	18.24368622	m3	Rp1,139,693.25	Rp20,792,206.11
	Besi Tulangan D19	1823.025	kg	Rp11,129.00	Rp20,288,445.23
	Besi Tulangan P10 K1	93.38653606	kg	Rp11,129.00	Rp1,039,298.76
	Besi Tulangan P10 K2	373.5461443	kg	Rp11,129.00	Rp4,157,195.04
	Bekesting	21	m2	Rp297,467.05	Rp6,246,808.05
	Pekerjaan Pondasi Foot Plat P3				
	Beton $f_c = \dots$ Mpa	14.07830399	m3	Rp1,139,693.25	Rp16,044,948.08
	Besi Tulangan D19	1391.52	kg	Rp11,129.00	Rp15,486,226.08
	Besi Tulangan P10 K2	349.6158549	kg	Rp11,129.00	Rp3,890,874.85
	Bekesting	16.8	m2	Rp297,467.05	Rp4,997,446.44
	Pekerjaan Pondasi Foot Plat P4				
	Beton $f_c = \dots$ Mpa	6.254845176	m3	Rp1,139,693.25	Rp7,128,604.85
	Besi Tulangan D16	2019.5968	kg	Rp11,129.00	Rp22,476,092.79
	Besi Tulangan P10 K4	206.864978	kg	Rp11,129.00	Rp2,302,200.34
	Bekesting	11.52	m2	Rp297,467.05	Rp3,426,820.42
	total				Rp312,127,587.90

No	Uraian Pekerjaan	Volume		Harga Satuan Rp.	Jumlah Harga Rp.
B.	LANTAI 1				
1	Pasir Urug Fondasi	46.673	m3	Rp263,600.00	Rp12,303,002.80
2	Lantai kerja 1:3:5 bwh pondasi	9.862	m3	Rp840,364.21	Rp8,287,671.80
3	Beton Kolom Struktur				
	Kolom K1 (50 x50)				
	Beton f'c = Mpa	11.2875	m3	Rp1,139,693.25	Rp12,864,287.60
	Besi Tulangan D19	1793.2768	kg	Rp11,129.00	Rp19,957,377.51
	Besi Tulangan P10	367.164	kg	Rp11,129.00	Rp4,086,168.16
	Bekesting	90.3	m2	Rp589,290.10	Rp53,212,896.03
	Kolom K2 (50x50)				
	Beton f'c = Mpa	17.8	m3	Rp1,139,693.25	Rp20,286,539.92
	Besi Tulangan D19	2113.5048	kg	Rp11,129.00	Rp23,521,194.92
	Besi Tulangan P10	582.8	kg	Rp11,129.00	Rp6,485,981.20
	Bekesting	142.4	m2	Rp589,290.10	Rp83,914,910.24
	Kolom K3 (40x40)				
	Beton f'c = Mpa	1.856	m3	Rp1,139,693.25	Rp2,115,270.68
	Besi Tulangan D19	112.9272	kg	Rp11,129.00	Rp1,256,766.81
	Besi Tulangan D16	112.24928	kg	Rp11,129.00	Rp1,249,222.24
	Besi Tulangan P10	100.936	kg	Rp11,129.00	Rp1,123,316.74
	Bekesting	18.56	m2	Rp589,290.10	Rp10,937,224.26
	Kolom K4 (20x40)				
	Beton f'c = Mpa	3.12	m3	Rp1,139,693.25	Rp3,555,842.95
	Besi Tulangan D16	573.35976	kg	Rp11,129.00	Rp6,380,920.77
	Besi Tulangan P10	319.3248	kg	Rp11,129.00	Rp3,553,765.70
	Bekesting	46.8	m2	Rp589,290.10	Rp27,578,776.68
4	Beton Sloof Struktur				
	Beton f'c =...Mpa	30.06	m3	Rp1,139,693.25	Rp34,259,179.21
	Besi tulangan D16	3486.112	kg/m'	Rp11,129.00	Rp38,796,940.45
	Besi Tulangan P10	1974.6752	kg	Rp11,129.00	Rp21,976,160.30
	Bekesting	90.18	m2	Rp316,889.05	Rp28,577,054.53
5	Beton BALOK INDUK				
	Beton f'c =...Mpa	41.41625	m3	Rp1,139,693.25	Rp47,201,820.73
	Besi tulangan D25	8180.483454	kg	Rp11,129.00	Rp91,040,600.36
	Besi Tulangan P12	409.4568	kg	Rp11,129.00	Rp4,556,844.73
	Besi Tulangan P10	2231.9504	kg	Rp11,129.00	Rp24,839,376.00
	Bekesting	347.31016	m2	Rp600,395.50	Rp208,523,457.17
6	Beton Balok Anak				
	Beton f'c =...Mpa	25.482	m3	Rp1,139,693.25	Rp29,041,663.50
	Besi tulangan D16	7792.5265	kg	Rp11,129.00	Rp86,723,027.42
	Besi Tulangan P8	2000.7648	kg	Rp11,129.00	Rp22,266,511.46
	Bekesting	242.079	m2	Rp600,395.50	Rp145,343,142.24
7	Beton Plat Kanopi				
	Beton f'c =...Mpa	3.8115	m3	Rp1,139,693.25	Rp4,343,940.84
	Besi tulangan P10	1521.5	m'	Rp11,129.00	Rp16,932,773.50
	Bekesting	40.585	m2	Rp822,333.80	Rp33,374,417.27
8	Beton Plat Lantai				
	Beton f'c =...Mpa	68.05185	m3	Rp1,139,693.25	Rp77,558,234.37
	Besi tulangan P8	4451.3931	kg	Rp11,129.00	Rp49,539,553.81
	Bekesting	567.09875	m2	Rp822,333.80	Rp466,344,470.06
	total				Rp1,733,910,304.95

No	Uraian Pekerjaan	Volume		Harga Satuan Rp.	Jumlah Harga Rp.
C.	LANTAI 2				
1	Beton Kolom Struktur				
	Kolom K1 (50x50)				
	Beton f <sub>c</sub> = Mpa	4.2	m3	Rp1,139,693.25	Rp4,786,711.67
	Besi Tulangan D19	599.424	kg	Rp11,129.00	Rp6,670,989.70
	Besi Tulangan P10	75.2928	kg	Rp11,129.00	Rp837,933.57
	Bekesting	33.6	m2	Rp589,290.10	Rp19,800,147.36
	Kolom K2 (50x50)				
	Beton f <sub>c</sub> = Mpa	14.7	m3	Rp1,139,693.25	Rp16,753,490.83
	Besi Tulangan D19	1573.488	kg	Rp11,129.00	Rp17,511,347.95
	Besi Tulangan P10	263.5248	kg	Rp11,129.00	Rp2,932,767.50
	Bekesting	117.6	m2	Rp589,290.10	Rp69,300,515.76
	Kolom K4 (20x40)				
	Beton f <sub>c</sub> = Mpa	2.016	m3	Rp1,139,693.25	Rp2,297,621.60
	Besi Tulangan D16	337.176	kg	Rp11,129.00	Rp3,752,431.70
	Besi Tulangan P10	148.6512	kg	Rp11,129.00	Rp1,654,339.20
	Bekesting	30.24	m2	Rp589,290.10	Rp17,820,132.62
2	Beton BALOK INDUK				
	Beton f <sub>c</sub> =...Mpa	41.41625	m3	Rp1,139,693.25	Rp47,201,820.73
	Besi tulangan D25	8180.483454	kg	Rp11,129.00	Rp91,040,600.36
	Besi Tulangan P12	409.4568	kg	Rp11,129.00	Rp4,556,844.73
	Besi Tulangan P10	2231.9504	kg	Rp11,129.00	Rp24,839,376.00
	Bekesting	347.31016	m2	Rp600,395.50	Rp208,523,457.17
3	Beton Balok Anak				
	Beton f <sub>c</sub> =...Mpa	25.482	m3	Rp1,139,693.25	Rp29,041,663.50
	Besi tulangan D16	7792.5265	kg	Rp11,129.00	Rp86,723,027.42
	Besi Tulangan P8	2000.7648	kg	Rp11,129.00	Rp22,266,511.46
	Bekesting	242.079	m2	Rp600,395.50	Rp145,343,142.24
4	Beton Plat Lantai				
	Beton f <sub>c</sub> =...Mpa	68.05185	m3	Rp1,139,693.25	Rp77,558,234.37
	Besi tulangan P8	4451.3931	kg	Rp11,129.00	Rp49,539,553.81
	Bekesting	567.09875	m2	Rp822,333.80	Rp466,344,470.06
	total				Rp1,417,097,131.32

No	Uraian Pekerjaan	Volume		Harga Satuan Rp.	Jumlah Harga Rp.
D.	LANTAI 3				
1	Beton Kolom Struktur				
	Kolom K3 (40x40)				
	Beton f <sub>c</sub> = Mpa	12.096	m3	Rp1,139,693.25	Rp13,785,729.60
	Besi Tulangan D19	674.352	kg	Rp11,129.00	Rp7,504,863.41
	Besi Tulangan D16	674.352	kg	Rp11,129.00	Rp7,504,863.41
	Besi Tulangan P10	611.1216	kg	Rp11,129.00	Rp6,801,172.29
	Bekesting	120.96	m2	Rp589,290.10	Rp71,280,530.50
	Kolom K4 (20x40)				
	Beton f <sub>c</sub> = Mpa	2.016	m3	Rp1,139,693.25	Rp2,297,621.60
	Besi Tulangan D16	337.176	kg	Rp11,129.00	Rp3,752,431.70
	Besi Tulangan P10	148.6512	kg	Rp11,129.00	Rp1,654,339.20
	Bekesting	30.24	m2	Rp589,290.10	Rp17,820,132.62
2	Beton BALOK INDUK				
	Beton f <sub>c</sub> =...Mpa	27.145	m3	Rp1,139,693.25	Rp30,936,973.38

	Besi tulangan D25	4644.82205	kg	Rp11,129.00	Rp51,692,224.59
	Besi Tulangan P12	284.9592	kg	Rp11,129.00	Rp3,171,310.94
	Besi Tulangan P10	1541.6796	kg	Rp11,129.00	Rp17,157,352.27
	Bekesting	198.4024938	m2	Rp600,395.50	Rp119,119,964.45
3	Beton Balok Anak				
	Beton f'c = ... Mpa	1.344	m3	Rp1,139,693.25	Rp1,531,747.73
	Besi tulangan D16	390.445	kg	Rp11,129.00	Rp4,345,262.41
	Besi Tulangan P8	101.1096	kg	Rp11,129.00	Rp1,125,248.74
	Bekesting	16.025	m2	Rp600,395.50	Rp9,621,337.89
7	Beton Plat Lantai				
	Beton f'c = ... Mpa	6.009	m3	Rp1,139,693.25	Rp6,848,416.76
	Besi tulangan P8	769.4547	kg	Rp11,129.00	Rp8,563,261.36
	Bekesting	60.09	m2	Rp822,333.80	Rp49,414,038.04
total					Rp435,928,822.89

No	Uraian Pekerjaan	Volume		Harga Satuan Rp.	Jumlah Harga Rp.
III	PEKERJAAN ATAP				
1	Kuda Kuda Baja ringan	1019.023225	m2	Rp150,000.00	Rp152,853,483.77
2	Atap selulosa bitumen	1019.023225	m2	Rp127,796.00	Rp130,227,092.08
3	Bubungan	88.15605973	m'	Rp366,290.00	Rp32,290,683.12
4	saringan talang	21	bh	Rp218,456.25	Rp4,587,581.25
5	Pipa Talang PVC 4"	265.65	m'	Rp353,440.00	Rp93,891,336.00
6	Listplank	91	m'	Rp70,094.00	Rp6,378,554.00
total					Rp420,228,730.21

No	Uraian Pekerjaan	Volume		Harga Satuan Rp.	Jumlah Harga Rp.
C.	PEKERJAAN TANGGA				
I	TANGGA TYPE A				
1	Plat dan anak Tangga				
	Beton f'c = ... Mpa	8.06953127	m3	Rp1,139,693.25	Rp9,196,790.35
	Besi Tulangan P8	250.476192	kg	Rp11,129.00	Rp2,787,549.54
	Besi Tulangan P10	200.56256	kg	Rp11,129.00	Rp2,232,060.73
	Besi Tulangan D16	826.0020665	kg	Rp11,129.00	Rp9,192,577.00
	Bekesting	54.58900355	m2	Rp550,445.58	Rp30,048,275.45
2	Plat Bordes				
	Beton f'c = ... Mpa	2.156	m3	Rp1,139,693.25	Rp2,457,178.66
	Besi Tulangan P10	195.3	kg	Rp11,129.00	Rp2,173,493.70
	Besi Tulangan D16	423.124	kg	Rp11,129.00	Rp4,708,947.00
	Bekesting	11.9	m2	Rp822,333.80	Rp9,785,772.22
3	Balok Bordes				
	Beton f'c = ... Mpa	0.308	m3	Rp1,139,693.25	Rp351,025.52
	Besi Tulangan P10	22.878	kg/m'	Rp11,129.00	Rp254,609.26
	Besi Tulangan D19	54.635	kg	Rp11,129.00	Rp608,032.92
	Bekesting	3.08	m2	Rp600,395.50	Rp1,849,218.14
total					Rp75,645,530.48

No	Uraian Pekerjaan	Volume		Harga Satuan Rp.	Jumlah Harga Rp.
II	TANGGA TYPE B				
1	Plat dan anak Tangga				
	Beton f'c = ... Mpa	5.517094393	m3	Rp1,139,693.25	Rp6,287,795.26

	Besi Tulangan P8	180.05688	kg	Rp11,129.00	Rp2,003,853.02
	Besi Tulangan P10	133.672	kg	Rp11,129.00	Rp1,487,635.69
	Besi Tulangan D16	590.0014761	kg	Rp11,129.00	Rp6,566,126.43
	Bekesting	39.22052175	m2	Rp550,445.58	Rp21,588,762.64
2	Plat Bordes				
	Beton f'c = .... Mpa	1.71	m3	Rp1,139,693.25	Rp1,948,875.46
	Besi Tulangan P10	109.12	kg	Rp11,129.00	Rp1,214,396.48
	Besi Tulangan D16	325.48	kg	Rp11,129.00	Rp3,622,266.92
	Bekesting	9.75	m2	Rp822,333.80	Rp8,017,754.55
3	Balok Bordes				
	Beton f'c = .... Mpa	0.228	m3	Rp1,139,693.25	Rp259,850.06
	Besi Tulangan P10	17.856	kg/m'	Rp11,129.00	Rp198,719.42
	Besi Tulangan D19	40.6975	kg	Rp11,129.00	Rp452,922.48
	Bekesting	2.28	m2	Rp600,395.50	Rp1,368,901.74
	total				Rp55,017,860.16

No	Uraian Pekerjaan	Volume		Harga Satuan Rp.	Jumlah Harga Rp.
<b>D. PEKERJAAN FINISHING ARSITEKTUR</b>					
I	LANTAI 1				
A.	PEK. PAS. KOSEN :				
1	Pekerjaan Jendela				
	Jendela J2				
	kusen aluminium	98.2	m'	Rp72,620.00	Rp7,131,284.00
	Kaca T 8 mm	31.95	m2	Rp198,320.00	Rp6,336,324.00
	karet	111.8	m'	Rp69,094.00	Rp7,724,709.20
2	Pekerjaan Bouven				
	Bouven BV1				
	kusen aluminium	10.4	m'	Rp72,620.00	Rp755,248.00
	Kaca T 5 mm	1.28	m2	Rp192,160.00	Rp245,964.80
	Bouven BV2				
	kusen aluminium	9.4	m'	Rp72,620.00	Rp682,628.00
	Kaca T 5 mm	1.28	m2	Rp192,160.00	Rp245,964.80
	Bouven BV3				
	kusen aluminium	12.8	m'	Rp72,620.00	Rp929,536.00
	Kaca T 5 mm	1.92	m2	Rp192,160.00	Rp368,947.20
	Bouven BV4				
	kusen aluminium	3.3	m'	Rp72,620.00	Rp239,646.00
	Kaca T 5 mm	1.38	m2	Rp192,160.00	Rp265,180.80
3	Pekerjaan Partisi				
	Partisi PTS 1				
	Partisy double kalsiboard 6 mm + rangka metal + cat	26.1	m2	Rp167,880.00	Rp4,381,668.00
	Partisi PTS 2				
	Partisy double kalsiboard 6 mm + rangka metal + cat	15.675	m2	Rp167,880.00	Rp2,631,519.00
	Partisi PTS 3				
	Kaca T 5 mm	4	m2	Rp192,160.00	Rp768,640.00
	daun Pintu HPL Double	2	bh	Rp1,551,750.00	Rp3,103,500.00
	Partisy double kalsiboard 6 mm + rangka metal + cat	36.32	m2	Rp167,880.00	Rp6,097,401.60
	Engsel Pintu	8	bh	Rp83,300.00	Rp666,400.00
	Handle pintu double	2	bh	Rp333,800.00	Rp667,600.00

	Partisi PTS 4				
	Kaca T 5 mm	4	m2	Rp192,160.00	Rp768,640.00
	daun Pintu HPL Double	2	bh	Rp1,551,750.00	Rp3,103,500.00
	Partisy double kalsiboard 6 mm + rangka metal + cat	36.32	m2	Rp167,880.00	Rp6,097,401.60
	Engsel Pintu	8	bh	Rp83,300.00	Rp666,400.00
	Handle pintu double	2	bh	Rp333,800.00	Rp667,600.00
	Partisi PTS 5				
	Kaca T 5 mm	4	m2	Rp192,160.00	Rp768,640.00
	daun Pintu HPL Double	2	bh	Rp1,551,750.00	Rp3,103,500.00
	Partisy double kalsiboard 6 mm + rangka metal + cat	33.92	m2	Rp167,880.00	Rp5,694,489.60
	Engsel Pintu	8	bh	Rp83,300.00	Rp666,400.00
	Handle pintu double	2	bh	Rp333,800.00	Rp667,600.00
	Partisi PTS 6				
	Kaca T 5 mm	2	m2	Rp192,160.00	Rp384,320.00
	daun Pintu HPL Double	1	bh	Rp1,551,750.00	Rp1,551,750.00
	Partisy double kalsiboard 6 mm + rangka metal + cat	16.96	m2	Rp167,880.00	Rp2,847,244.80
	Engsel Pintu	4	bh	Rp83,300.00	Rp333,200.00
	Handle pintu double	1	bh	Rp333,800.00	Rp333,800.00
	Partisi PTS 7				
	Kaca T 5 mm	1.46	m2	Rp192,160.00	Rp280,553.60
	daun Pintu HPL Double	1	bh	Rp1,551,750.00	Rp1,551,750.00
	Partisy double kalsiboard 6 mm + rangka metal + cat	5.425	m2	Rp167,880.00	Rp910,749.00
	Engsel Pintu	4	bh	Rp83,300.00	Rp333,200.00
	Handle pintu double	1	bh	Rp333,800.00	Rp333,800.00
	Partisi PTS 8				
	Partisy double kalsiboard 6 mm + rangka metal + cat	45.6	m2	Rp167,880.00	Rp7,655,328.00
<b>B.</b>	<b>PEK. PLAFOND :</b>				
	Plafond kalsiboard rangka hollow	652.435	m2	Rp385,280.00	Rp251,370,156.80
	List tepi profil gypsum	425.45	m'	Rp37,230.00	Rp15,839,503.50
<b>C.</b>	<b>PEK. PASANG LANTAI TANGGA</b>				
	TANGGA TYPE A				
	Lt. keramik 40/40 cm	47.2664	m2	Rp286,346.68	Rp13,534,576.72
	TANGGA TYPE A				
	Lt. keramik 40/40 cm	38.76	m2	Rp286,346.68	Rp11,098,797.32
<b>D.</b>	<b>PEK. PASANG LANTAI DAN DINDING :</b>				
	Lt. keramik 40/40 cm	595.0920833	m2	Rp286,346.68	Rp170,402,642.36
	Lt. keramik 40/40 cm anti selip	47.33125	m2	Rp286,346.68	Rp13,553,146.30
	Lt. keramik 20/20 cm anti selip	16.85041667	m2	Rp380,069.00	Rp6,404,321.01
	Urug pasir bawah lantai	65.927375	m3	Rp263,600.00	Rp17,378,456.05
	Lantai Kerja 1 : 3 : 5	32.9636875	m3	Rp840,364.21	Rp27,701,503.08
	Dinding keramik 20x25 cm Lavatory	41.7375	m2	Rp291,709.00	Rp12,175,204.39
	Keramik Border	27.825	m'	Rp320,836.40	Rp8,927,272.83
	Plint lantai keramik	182.725	m'	Rp39,305.70	Rp7,182,134.03
<b>D.</b>	<b>PEK. PAS. BT. BATA / PLESTERAN :</b>				
	Pas. bt. bata 1 : 3	370.83625	m2	Rp558,431.30	Rp207,086,569.17
	Pas. bt. bata 1:5	107.92	m2	Rp544,829.60	Rp58,798,010.43
	Pas. bt. bata 1:2 (40 + 30)	113.89	m2	Rp571,719.00	Rp65,113,076.91
	Plesteran 1:5	209.095	m2	Rp89,081.68	Rp18,626,533.88
	Plesteran 1:3	590.08125	m2	Rp92,257.72	Rp54,439,550.74

E.	PEK. CAT-CATAN :				
	Cat Tembok Exterior	398.65	m2	Rp45,032.00	Rp17,952,006.80
	Cat Tembok Interior	666.625	m2	Rp33,826.00	Rp22,549,257.25
	Cat Plafond	652.435	m2	Rp33,412.00	Rp21,799,158.22
F	INSTALASI PENERANGAN LANTAI I				
	Lampu RMO TL 2 x 36 W	37	bh	Rp112,500.00	Rp4,162,500.00
	Lampu RMO TL 1 x 36 W	4	bh	Rp82,500.00	Rp330,000.00
	Down light essential 11 W	29	bh	Rp50,500.00	Rp1,464,500.00
	Lampu SL 18 W	8	bh	Rp40,500.00	Rp324,000.00
	Lampu baret TL 18 W	2	bh	Rp40,500.00	Rp81,000.00
	Stop kontak 3 phasa 1500 VA	18	ttk	Rp50,500.00	Rp909,000.00
	Stop kontak 200 W	5	ttk	Rp42,500.00	Rp212,500.00
	Saklar tunggal	9	bh	Rp46,500.00	Rp418,500.00
	Saklar ganda	11	bh	Rp54,500.00	Rp599,500.00
	Saklar hotel	2	bh	Rp44,500.00	Rp89,000.00
	Instalasi stop kontak dan titik lampu	103	ttk	Rp47,500.00	Rp4,892,500.00
	Grid swithch	2	bh	Rp47,500.00	Rp95,000.00
	Rak kabel	46	m'	Rp48,250.00	Rp2,219,500.00
G	INSTALASI AC LANTAI 1				
	Pasang instalasi AC	16	tk	Rp2,738,500.00	Rp43,816,000.00
H	PEK.SANITASI				
	Closet jongkok	4	bh	Rp812,198.00	Rp3,248,792.00
	Saringan air st.st.	4	bh	Rp10,656.25	Rp42,625.00
	Kran air	4	bh	Rp98,800.00	Rp395,200.00
	Urinoir	2	bh	Rp1,522,490.00	Rp3,044,980.00
	Penyekat urinoir	2	bh	Rp1,522,490.00	Rp3,044,980.00
	Wastafel + kran lengkap	2	bh	Rp1,543,822.00	Rp3,087,644.00
	Meja beton wastafel lapis keramik + almari	2	bh	Rp6,012,600.00	Rp12,025,200.00
	Kaca cermin	2	bh	Rp176,100.00	Rp352,200.00
	Meja beton lapis keramik lab	68.4	m'	Rp8,012,600.00	Rp548,061,840.00
	Wash bak meja beton lab	14	bh	Rp6,512,600.00	Rp91,176,400.00
	Kran washbak lab	14	bh	Rp312,600.00	Rp4,376,400.00
	total				Rp1,832,363,666.79

No	Uraian Pekerjaan	Volume	Harga Satuan Rp.	Jumlah Harga Rp.	
II	LANTAI 2				
A	PEK. PAS. KOSEN :				
1	Pekerjaan Jendela				
	Jendela J3				
	kusen aluminium	72.9	m'	Rp72,620.00	Rp5,293,998.00
	Kaca T 8 mm	29.8925	m2	Rp198,320.00	Rp5,928,280.60
	Karet	124.6	m2	Rp69,094.00	Rp8,609,112.40
	Jendela J4				
	kusen aluminium	20.4	m'	Rp72,620.00	Rp1,481,448.00
	Kaca T 8 mm	39.15	m2	Rp198,320.00	Rp7,764,228.00
	Kaca T 5 mm	12.15	m2	Rp192,160.00	Rp2,334,744.00
2	Pekerjaan Bouven				
	Bouven BV1				
	kusen aluminium	10.4	m'	Rp72,620.00	Rp755,248.00
	Kaca T 5 mm	1.28	m2	Rp192,160.00	Rp245,964.80
	Bouven BV2				

	kusen aluminium	9.4	m'	Rp72,620.00	Rp682,628.00
	Kaca T 5 mm	1.28	m2	Rp192,160.00	Rp245,964.80
	Bouven BV3				
	kusen aluminium	12.8	m'	Rp72,620.00	Rp929,536.00
	Kaca T 5 mm	1.92	m2	Rp192,160.00	Rp368,947.20
	Bouven BV4				
	kusen aluminium	3.3	m'	Rp72,620.00	Rp239,646.00
	Kaca T 5 mm	1.38	m2	Rp192,160.00	Rp265,180.80
3	Pekerjaan Partisi				
	Partisi PTS 1				
	Partisy double kalsiboard 6 mm + rangka metal + cat	26.1	m2	Rp167,880.00	Rp4,381,668.00
	Partisi PTS 2				
	Partisy double kalsiboard 6 mm + rangka metal + cat	15.675	m2	Rp167,880.00	Rp2,631,519.00
	Partisi PTS 3				
	Kaca T 5 mm	4	m2	Rp192,160.00	Rp768,640.00
	daun Pintu HPL Double	2	bh	Rp1,551,750.00	Rp3,103,500.00
	Partisy double kalsiboard 6 mm + rangka metal + cat	36.32	m2	Rp167,880.00	Rp6,097,401.60
	Engsel Pintu	8	bh	Rp83,300.00	Rp666,400.00
	Handle pintu double	2	bh	Rp333,800.00	Rp667,600.00
	Partisi PTS 4				
	Kaca T 5 mm	4	m2	Rp192,160.00	Rp768,640.00
	daun Pintu HPL Double	2	bh	Rp1,551,750.00	Rp3,103,500.00
	Partisy double kalsiboard 6 mm + rangka metal + cat	36.32	m2	Rp167,880.00	Rp6,097,401.60
	Engsel Pintu	8	bh	Rp83,300.00	Rp666,400.00
	Handle pintu double	2	bh	Rp333,800.00	Rp667,600.00
	Partisi PTS 5				
	Kaca T 5 mm	4	m2	Rp192,160.00	Rp768,640.00
	daun Pintu HPL Double	2	bh	Rp1,551,750.00	Rp3,103,500.00
	Partisy double kalsiboard 6 mm + rangka metal + cat	33.92	m2	Rp167,880.00	Rp5,694,489.60
	Engsel Pintu	8	bh	Rp83,300.00	Rp666,400.00
	Handle pintu double	2	bh	Rp333,800.00	Rp667,600.00
	Partisi PTS 6				
	Kaca T 5 mm	2	m2	Rp192,160.00	Rp384,320.00
	daun Pintu HPL Double	1	bh	Rp1,551,750.00	Rp1,551,750.00
	Partisy double kalsiboard 6 mm + rangka metal + cat	16.96	m2	Rp167,880.00	Rp2,847,244.80
	Engsel Pintu	4	bh	Rp83,300.00	Rp333,200.00
	Handle pintu double	1	bh	Rp333,800.00	Rp333,800.00
	Partisi PTS 7				
	Kaca T 5 mm	1.46	m2	Rp192,160.00	Rp280,553.60
	daun Pintu HPL Double	1	bh	Rp1,551,750.00	Rp1,551,750.00
	Partisy double kalsiboard 6 mm + rangka metal + cat	5.425	m2	Rp167,880.00	Rp910,749.00
	Engsel Pintu	4	bh	Rp83,300.00	Rp333,200.00
	Handle pintu double	1	bh	Rp333,800.00	Rp333,800.00
	Partisi PTS 8				
	Partisy double kalsiboard 6 mm + rangka metal + cat	22.8	m2	Rp167,880.00	Rp3,827,664.00
	Partisi PTS 9				

	Kaca T 5 mm	1.54	m2	Rp192,160.00	Rp295,926.40
	daun Pintu HPL Single	1	bh	Rp1,551,750.00	Rp1,551,750.00
	Partisy double kalsiboard 6 mm + rangka metal + cat	8.305	m2	Rp167,880.00	Rp1,394,243.40
	Engsel Pintu	4	bh	Rp83,300.00	Rp333,200.00
	Handle pintu Single	1	bh	Rp333,800.00	Rp333,800.00
	Partisi PTS 10				
	Kaca T 5 mm	3.08	m2	Rp192,160.00	Rp591,852.80
	daun Pintu HPL double	1	bh	Rp1,551,750.00	Rp1,551,750.00
	Partisy double kalsiboard 6 mm + rangka metal + cat	16.78	m2	Rp167,880.00	Rp2,817,026.40
	Engsel Pintu	4	bh	Rp83,300.00	Rp333,200.00
	Handle pintu double	1	bh	Rp333,800.00	Rp333,800.00
<b>B</b>	<b>PEK. PLAFOND :</b>				
	Plafond kalsiboard rangka hollow	629.635	m2	Rp385,280.00	Rp242,585,772.80
	List tepi profil gypsum	404.6	m'	Rp37,230.00	Rp15,063,258.00
<b>C</b>	<b>PEK. PASANG LANTAI DAN DINDING :</b>				
	Lt. keramik 40/40 cm	560.3558333	m2	Rp286,346.68	Rp160,456,032.49
	Lt. keramik 40/40 cm anti selip	59.2675	m2	Rp286,346.68	Rp16,971,051.86
	Lt. keramik 20/20 cm anti selip	16.85041667	m2	Rp380,069.00	Rp6,404,321.01
	Dinding keramik 20x25 cm Lavatory	41.7375	m2	Rp291,709.00	Rp12,175,204.39
	Keramik Border Lavatory	27.825	m'	Rp320,836.40	Rp8,927,272.83
	Plint lantai keramik	172.325	m'	Rp39,305.70	Rp6,773,354.75
<b>D.</b>	<b>PEK. PAS. BT. BATA / PLESTERAN :</b>				
	Pas. bt. bata 1 : 3	396.1725	m2	Rp558,431.30	Rp221,235,124.20
	Pas. bt. bata 1:5	116.35125	m2	Rp544,829.60	Rp63,391,605.00
	Plesteran 1:5	615.475	m2	Rp89,081.68	Rp54,827,547.00
	Plesteran 1:3	504.0175	m2	Rp92,257.72	Rp46,499,505.39
<b>E.</b>	<b>PEK. CAT-CATAN :</b>				
	Cat Tembok Exterior	419.65	m2	Rp45,032.00	Rp18,897,678.80
	Cat Tembok Interior	706.875	m2	Rp33,826.00	Rp23,910,753.75
	Cat Plafond	629.635	m2	Rp33,412.00	Rp21,037,364.62
<b>F</b>	<b>INSTALASI PENERANGAN LANTAI 2</b>				
	Lampu RMO TL 2 x 36 W	43	bh	Rp112,500.00	Rp4,837,500.00
	Lampu RMO TL 1 x 36 W	2	bh	Rp82,500.00	Rp165,000.00
	Down light essential 11 W	15	bh	Rp50,500.00	Rp757,500.00
	Lampu SL 18 W	8	bh	Rp40,500.00	Rp324,000.00
	Lampu baret TL 18 W	2	bh	Rp40,500.00	Rp81,000.00
	Stop kontak 3 phasa 1500 VA	16	ttk	Rp50,500.00	Rp808,000.00
	Stop kontak 200 W	6	ttk	Rp42,500.00	Rp255,000.00
	Saklar tunggal	7	bh	Rp46,500.00	Rp325,500.00
	Saklar ganda	12	bh	Rp54,500.00	Rp654,000.00
	Saklar hotel	4	bh	Rp44,500.00	Rp178,000.00
	Instalasi stop kontak dan titik lampu	92	ttk	Rp47,500.00	Rp4,370,000.00
	Grid swicth	1	bh	Rp47,500.00	Rp47,500.00
	Rak kabel	46	m'	Rp48,250.00	Rp2,219,500.00
<b>G</b>	<b>INSTALASI AC LANTAI 2</b>				
	Pasang instalasi AC	17	tk	Rp2,738,500.00	Rp46,554,500.00
<b>H</b>	<b>PEK.SANITASI</b>				
	Closet jongkok	4	bh	Rp812,198.00	Rp3,248,792.00
	Saringan air st.st.	4	bh	Rp10,656.25	Rp42,625.00
	Kran air	4	bh	Rp98,800.00	Rp395,200.00
	Urinoir	2	bh	Rp1,522,490.00	Rp3,044,980.00
	Penyekat urinoir	2	bh	Rp1,522,490.00	Rp3,044,980.00

	Wastafel + kran lengkap	2	bh	Rp1,543,822.00	Rp3,087,644.00
	Meja beton wastafel lapis keramik + almari	2	bh	Rp6,012,600.00	Rp12,025,200.00
	Kaca cermin	2	bh	Rp176,100.00	Rp352,200.00
total					Rp1,103,864,874.69

No	Uraian Pekerjaan	Volume		Harga Satuan Rp.	Jumlah Harga Rp.
III	LANTAI 3				
A	PEK. PAS. KOSEN :				
1	Pekerjaan Jendela				
	Jendela J4				
	kusen aluminium	20.4	m'	Rp72,620.00	Rp1,481,448.00
	Kaca T 8 mm	39.15	m2	Rp198,320.00	Rp7,764,228.00
	Kaca T 5 mm	12.15	m2	Rp192,160.00	Rp2,334,744.00
2	Pekerjaan Bouven				
	Bouven BV1				
	kusen aluminium	10.4	m'	Rp72,620.00	Rp755,248.00
	Kaca T 5 mm	1.28	m2	Rp192,160.00	Rp245,964.80
	Bouven BV2				
	kusen aluminium	9.4	m'	Rp72,620.00	Rp682,628.00
	Kaca T 5 mm	1.28	m2	Rp192,160.00	Rp245,964.80
	Bouven BV3				
	kusen aluminium	12.8	m'	Rp72,620.00	Rp929,536.00
	Kaca T 5 mm	1.92	m2	Rp192,160.00	Rp368,947.20
	Bouven BV4				
	kusen aluminium	3.3	m'	Rp72,620.00	Rp239,646.00
	Kaca T 5 mm	1.38	m2	Rp192,160.00	Rp265,180.80
3	Pekerjaan Partisi				
	Partisi PTS 1				
	Partisy double kalsiboard 6 mm + rangka metal + cat	26.1	m2	Rp167,880.00	Rp4,381,668.00
	Partisi PTS 2				
	Partisy double kalsiboard 6 mm + rangka metal + cat	15.675	m2	Rp167,880.00	Rp2,631,519.00
	Partisi PTS 3				
	Kaca T 5 mm	4	m2	Rp192,160.00	Rp768,640.00
	daun Pintu HPL Double	2	bh	Rp1,551,750.00	Rp3,103,500.00
	Partisy double kalsiboard 6 mm + rangka metal + cat	36.32	m2	Rp167,880.00	Rp6,097,401.60
	Engsel Pintu	8	bh	Rp83,300.00	Rp666,400.00
	Handle pintu double	2	bh	Rp333,800.00	Rp667,600.00
	Partisi PTS 4				
	Kaca T 5 mm	4	m2	Rp192,160.00	Rp768,640.00
	daun Pintu HPL Double	2	bh	Rp1,551,750.00	Rp3,103,500.00
	Partisy double kalsiboard 6 mm + rangka metal + cat	36.32	m2	Rp167,880.00	Rp6,097,401.60
	Engsel Pintu	8	bh	Rp83,300.00	Rp666,400.00
	Handle pintu double	2	bh	Rp333,800.00	Rp667,600.00
	Partisi PTS 5				
	Kaca T 5 mm	4	m2	Rp192,160.00	Rp768,640.00
	daun Pintu HPL Double	2	bh	Rp1,551,750.00	Rp3,103,500.00

	Partisy double kalsiboard 6 mm + rangka metal + cat	33.92	m2	Rp167,880.00	Rp5,694,489.60
	Engsel Pintu	8	bh	Rp83,300.00	Rp666,400.00
	Handle pintu double	2	bh	Rp333,800.00	Rp667,600.00
	Partisi PTS 6				
	Kaca T 5 mm	2	m2	Rp192,160.00	Rp384,320.00
	daun Pintu HPL Double	1	bh	Rp1,551,750.00	Rp1,551,750.00
	Partisy double kalsiboard 6 mm + rangka metal + cat	16.96	m2	Rp167,880.00	Rp2,847,244.80
	Engsel Pintu	4	bh	Rp83,300.00	Rp333,200.00
	Handle pintu double	1	bh	Rp333,800.00	Rp333,800.00
	Partisi PTS 7				
	Kaca T 5 mm	1.46	m2	Rp192,160.00	Rp280,553.60
	daun Pintu HPL Double	1	bh	Rp1,551,750.00	Rp1,551,750.00
	Partisy double kalsiboard 6 mm + rangka metal + cat	5.425	m2	Rp167,880.00	Rp910,749.00
	Engsel Pintu	4	bh	Rp83,300.00	Rp333,200.00
	Handle pintu double	1	bh	Rp333,800.00	Rp333,800.00
	Partisi PTS 8				
	Partisy double kalsiboard 6 mm + rangka metal + cat	22.8	m2	Rp167,880.00	Rp3,827,664.00
	Partisi PTS 9				
	Kaca T 5 mm	1.54	m2	Rp192,160.00	Rp295,926.40
	daun Pintu HPL Single	1	bh	Rp1,551,750.00	Rp1,551,750.00
	Partisy double kalsiboard 6 mm + rangka metal + cat	8.305	m2	Rp167,880.00	Rp1,394,243.40
	Engsel Pintu	4	bh	Rp83,300.00	Rp333,200.00
	Handle pintu Single	1	bh	Rp333,800.00	Rp333,800.00
	Partisi PTS 10				
	Kaca T 5 mm	3.08	m2	Rp192,160.00	Rp591,852.80
	daun Pintu HPL double	1	bh	Rp1,551,750.00	Rp1,551,750.00
	Partisy double kalsiboard 6 mm + rangka metal + cat	16.78	m2	Rp167,880.00	Rp2,817,026.40
	Engsel Pintu	4	bh	Rp83,300.00	Rp333,200.00
	Handle pintu double	1	bh	Rp333,800.00	Rp333,800.00
<b>B</b>	<b>PEK. PLAFOND :</b>				
1	Plafond kalsiboard rangka hollow	966.7825	m2	Rp385,280.00	Rp372,481,961.60
2	List tepi profil gypsum	516.95	m'	Rp37,230.00	Rp19,246,048.50
<b>C</b>	<b>PEK. PASANG LANTAI DAN DINDING :</b>				
	Lt. keramik 40/40 cm	560.3558333	m2	Rp286,346.68	Rp160,456,032.49
	Lt. keramik 40/40 cm anti selip	59.2675	m2	Rp286,346.68	Rp16,971,051.86
	Lt. keramik 20/20 cm anti selip	16.85041667	m2	Rp380,069.00	Rp6,404,321.01
	Dinding keramik 20x25 cm Lavatory	41.7375	m2	Rp291,709.00	Rp12,175,204.39
	Keramik Border Lavatory	27.825	m'	Rp320,836.40	Rp8,927,272.83
	Plint lantai keramik	172.325	m'	Rp39,305.70	Rp6,773,354.75
<b>D.</b>	<b>PEK. PAS. BT. BATA / PLESTERAN :</b>				
	Pas. bt. bata 1 : 3	423.69	m2	Rp558,431.30	Rp236,601,757.50
	Pas. bt. bata 1:5	116.35125	m2	Rp544,829.60	Rp63,391,605.00
	Plesteran 1:5	633.06	m2	Rp89,081.68	Rp56,394,048.34
	Plesteran 1:3	517.89	m2	Rp92,257.72	Rp47,779,350.61
<b>E.</b>	<b>PEK. CAT-CATAN :</b>				
	Cat Tembok Exterior	419.65	m2	Rp45,032.00	Rp18,897,678.80
	Cat Tembok Interior	706.875	m2	Rp33,826.00	Rp23,910,753.75
	Cat Plafond	966.7825	m2	Rp33,412.00	Rp32,302,136.89

F	INSTALASI PENERANGAN LANTAI 3				
	Lampu RMO TL 2 x 36 W	50	bh	Rp112,500.00	Rp5,625,000.00
	Lampu RMO TL 1 x 36 W	4	bh	Rp82,500.00	Rp330,000.00
	Down light essential 11 W	15	bh	Rp50,500.00	Rp757,500.00
	Lampu SL 18 W	8	bh	Rp40,500.00	Rp324,000.00
	Stop kontak 3 phasa 1500 VA	13	ttk	Rp50,500.00	Rp656,500.00
	Stop kontak 200 W	14	bh	Rp42,500.00	Rp595,000.00
	Saklar tunggal	11	bh	Rp46,500.00	Rp511,500.00
	Saklar ganda	13	bh	Rp54,500.00	Rp708,500.00
	Saklar hotel	2	bh	Rp44,500.00	Rp89,000.00
	Instalasi stop kontak dan titik lampu	104	ttk	Rp47,500.00	Rp4,940,000.00
	Grid swicth	1	bh	Rp47,500.00	Rp47,500.00
	Rak kabel	46	m'	Rp48,250.00	Rp2,219,500.00
G	INSTALASI AC LANTAI 3				
	Pasang instalasi AC	17	tk	Rp2,738,500.00	Rp46,554,500.00
H	PEK.SANITASI				
	Closet jongkok	4	bh	Rp812,198.00	Rp3,248,792.00
	Saringan air st.st.	4	bh	Rp10,656.25	Rp42,625.00
	Kran air	4	bh	Rp98,800.00	Rp395,200.00
	Urinoir	2	bh	Rp1,522,490.00	Rp3,044,980.00
	Penyekat urinoir	2	bh	Rp1,522,490.00	Rp3,044,980.00
	Wastafel + kran lengkap	2	bh	Rp1,543,822.00	Rp3,087,644.00
	Meja beton wastafel lapis keramik + almari	2	bh	Rp6,012,600.00	Rp12,025,200.00
	Kaca cermin	2	bh	Rp176,100.00	Rp352,200.00
	total				Rp1,249,371,715.12