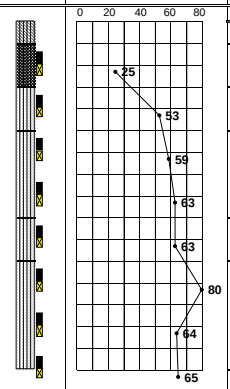
LAMPIRAN

Table 3.2 : Bor and SPT titik B1

Bore N : B1
Project : RENCANA PEMBANGUNAN MTS UMMU AIMAN
Locatio : LAWANG KABUPATEN MALANG PROVINSI JAWA TIMUR
GWL : - 0,80 m

Coordinates of GPS (UTM) X = 0685961
Y = 9133280
Diameter of Bore : 73 mm
Diameter of Casing : 89 mm

BORE LOG



DEPTH (m)	BORE LOG	Standard Penetration Test (SPT) N / 30 cm	DESCRIPTION	COLOUR	S P T Value Depth sample (Blow / 30 cm)	Grain Size Analysis (%) Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Physical Properties Water Content (%)	Dry Density (γd) (gr/cm³)	Specific Gravity GS	Porosity n	Void Ratio e	Mechanical Properties Unconfined Test qu kg/cm²	Direct Shear Test c kg/cm²	ϕ (°)	Atterberg Test LL %	PL %	IP %
0																				
1			Lanau Kelempungan																	
2			Kerikil dan Pasir dengan Lanau	Coklat	1 + 10 (2.00) + 15 (2.50) = 25 m	40.78	40.34	18.88	0.00	39.29	1.292	2.696	0.514	1.059		0.28	17	NON PLASTIS		
3																				
4			Pasir dengan Kerikil	Hitam	16 + 23 (4.00) + 30 (4.50) = 53 m	32.56	63.90	3.55	0.00	30.98	1.421	2.712	0.457	0.840		0.19	23	NON PLASTIS		
5																				
6			Pasir sedikit Lanau & Kerikil	Coklat	15 + 22 (6.00) + 37 (6.50) = 59 m	3.13	91.88	4.99	0.00	34.90	1.277	2.702	0.485	0.943		0.25	20	NON PLASTIS		
7																				
8					16 + 24 (8.00) + 39 (8.50) = 63 m	3.14	93.10	3.76	0.00	37.47	1.303	2.716	0.504	1.018		0.23	21	NON PLASTIS		
9																				
10			Pasir sedikit Kerikil & Lanau		17 + 25 (10.00) + 38 (10.50) = 63 m	6.81	91.05	2.14	0.00	28.20	1.298	2.727	0.435	0.769		0.14	27	NON PLASTIS		
11																				
12			Pasir dengan Kerikil sedikit Lanau		20 + 32 (12.00) + 28 / 10 cm (12.50) = 80 m	11.45	85.98	2.57	0.00	30.57	1.353	2.723	0.454	0.833		0.16	25	NON PLASTIS		
13																				
14				Hitam	19 + 28 (14.00) + 36 (14.50) = 64 m	14.64	80.85	4.51	0.00	27.95	1.463	2.706	0.431	0.756		0.26	19	NON PLASTIS		
15																				
16					18 + 26 (16.00) + 39 (16.50) = 65 m	24.32	72.89	2.78	0.00	26.53	1.451	2.721	0.419	0.722		0.17	24	NON PLASTIS		

Table 3.3 : Bor and SPT titik B2

Bore N : B2
Project : RENCANA PEMBANGUNAN MTS UMMU AIMAN
Locatio : LAWANG KABUPATEN MALANG PROVINSI JAWA TIMUR
GWL : - 1.20 m

Coordinates of GPS (UTM) X = 0685965
Y = 9133311
Diameter of Bore : 73 mm
Diameter of Casing : 89 mm

BORE LOG

DEPTH (m)	BORE LOG	Standard Penetration Test (SPT) N / 30 cm	DESCRIPTION	COLOUR	S P T Value Depth sample (Blow / 30 cm)	Grain Size Analysis (%) Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Physical Properties Water Content (%)	Dry Density (γd) (gr/cm³)	Specific Gravity GS	Porosity n	Void Ratio e	Mechanical Properties Unconfined Test qu kg/cm²	Direct Shear Test c kg/cm²	ϕ (°)	Atterberg Test LL %	PL %	IP %
0		0 20 40 60 80	Asphalt 0.30 m Concrete 0.20 m	Hitam dan Abu-abu																
1			Lanau Kelempungan sedikit Pasir	Coklat																
2		51	Pasir, Kerikil, Lanau		13 + 19 (2.00) + 32 (2.50) = 51 m	33.45	40.49	26.05	0.00	27.33	1.596	2.682	0.423	0.733		0.29	16	NON PLASTIS		
3																				
4		61	Pasir sedikit Kerikil & Lanau		17 + 23 (4.00) + 38 (4.50) = 61 m	8.66	85.46	5.88	0.00	31.89	1.494	2.712	0.464	0.865		0.19	23	NON PLASTIS		
5																				
6		63	Pasir dengan Kerikil sedikit Lanau	Abu-abu	18 + 24 (6.00) + 39 (6.50) = 63 m	14.84	77.68	7.49	0.00	25.87	1.632	2.702	0.411	0.699		0.22	20	NON PLASTIS		
7																				
8		60			16 + 22 (8.00) + 38 (8.50) = 60 m	13.68	81.06	5.26	0.00	28.54	1.520	2.725	0.437	0.778		0.15	27	NON PLASTIS		
9																				
10		62	Pasir sedikit Kerikil & Lanau		19 + 25 (10.00) + 37 (10.50) = 62 m	7.50	85.75	6.76	0.00	33.80	1.438	2.706	0.478	0.915		0.20	21	NON PLASTIS		
11																				
12		62	Pasir dengan Kerikil sedikit Lanau	Coklat Abu-abu	18 + 23 (12.00) + 39 (12.50) = 62 m	14.20	77.47	8.33	0.00	28.16	1.624	2.699	0.432	0.760		0.24	18	NON PLASTIS		
13																				
14		64		Hitam	17 + 24 (14.00) + 40 (14.50) = 64 m	10.02	84.48	5.50	0.00	29.00	1.496	2.721	0.441	0.789		0.18	24	NON PLASTIS		
15																				
16		80			19 + 34 (16.00) + 26 / 11 cm (16.50) = 80 m	13.10	81.36	5.54	0.00	26.91	1.473	2.716	0.422	0.731		0.16	26	NON PLASTIS		

1.2.3 Safe working loads for JENKA Short Inserts

The resistance of the JENKA Lifting System is determined by a design concept that makes reference to the following standards and regulations.

EN1992-1-1:2011
Machinery directive 2006/42/EC
VDI/BV-BS6205:2012

The load capacities depend very much on how and in which combination the items will be used. For short JENKA Lifting Inserts, all JENKA Lifting Keys (TLL, JL, JLW) can be used at an angle β of 0–45°.

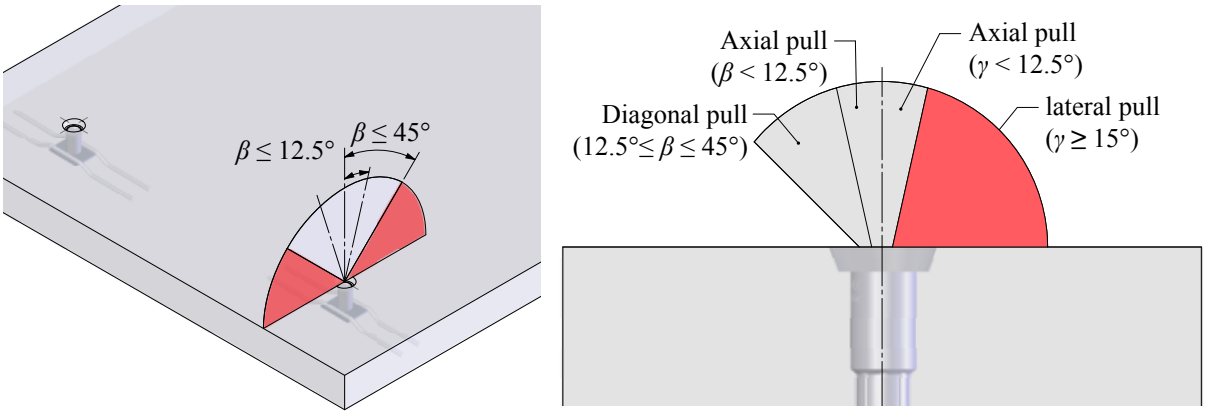
The safe working load capacities (SWL) are based upon specific dimensions and edge distances as given in the following sections. Before selecting an insert, take note of the design assumptions in this manual. **The minimum compressive strength of the concrete at the moment of load application is 15 MPa.** Min 15MPa

Table 17 shows the safe working load levels of JENKA Short Inserts. Select inserts that are suitable for the planned load directions. *Figure 21* illustrates the load directions related to this table.

Table 17. Safe working load (SWL) for JENKA Short Inserts.

Item No. JRd/JM	Load Class	WAS SWL for β 0-45° [kN]	BSA SWL for β 0-45° [kN]	PSA SWL for β 0-45° at 15 MPa[kN]	at 20 MPa[kN]	at 25 MPa[kN]
12	500	5	5	5	5	5
14	800	8	8	8	8	8
16	1200	12	12	10	12	12
18	1600	16	16	14.2	16	16
20	2000	20	20	18.3	20	20
24	2500	25	25	25	25	25
30	4000	40	40	40	40	40
36	6300	63		63	63	63
42	8000	80		80	78	80
52	12500			95	110	125

Figure 21. Load directions for JENKA Short Inserts.



PLEASE NOTE:
Diagonal pull between 12.5° and 45° is only permitted with additional reinforcement in accordance with the following section.

1.2.4 Unit geometry and spacing

The use of Peikko Lifting systems requires a specific element geometry. The load capacities given in this section of the manual are based on specific dimensions and edge and axial distances. The safety factors can only be ensured as described if the geometric specifications are complied with. Peikko's engineering service offers customized solutions to make special applications possible.

Before selecting and installing an insert, consider the general information in the previous sections of this manual. The required part geometry specification for JENKA Long Inserts differs from that for short inserts. The two types cannot replace each other or be applied in the same way unless the geometric requirements are complied with.

JENKA Short Inserts are commonly used in thin, flat elements with limited anchorage depth. With this insert type, most of the anchor loads are transferred over the width of the element. In many cases, capacities are limited by the element thickness c due to slab bending during lifting. The minimum element thickness and minimum edge and axial distances for respective insert types are shown in *Table 18*. *Figure 22* visualizes the requirements.

Table 18. Minimum unit geometry for JENKA Short Inserts.

Item No. JRd/JM	WAS			BSA			PSA		
	b [mm]	*a* [mm]	*c* [mm]	*b* [mm]	*a* [mm]	*c* [mm]	*b* [mm]	*a* [mm]	*c* [mm]
12	200	95	140	360	180	80	350	180	70
14	200	115	160	420	210	90	350	180	80
16	260	135	190	180	240	100	500	250	85
18	300	155	210	540	270	110	600	300	95
20	350	170	215	600	300	120	600	300	100
24	440	220	270	690	345	135	800	400	115
30	550	275	335	900	450	170	1000	500	140
36	600	300	420				1300	650	160
42	800	400	480				1300	650	175
52							1500	750	215

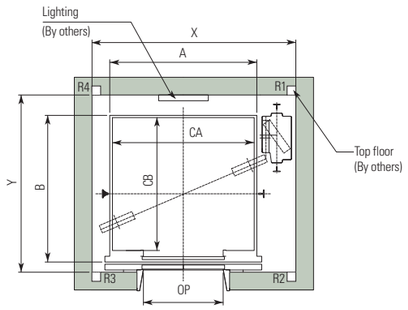
Moving solutions with safety, reliability and efficiency

PASSENGER ELEVATORS

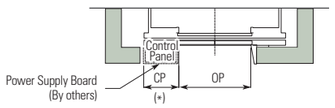
HYUNDAI ELEVATOR

Layout Plan - YZER(Machine-Room-Less Elevators) 1~2.5m/sec | Center open

Plan of Hoistway

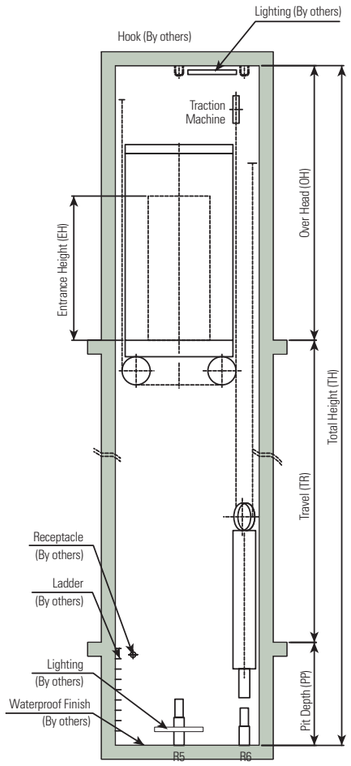


Floor without control panel



Floor with control panel

Section of Hoistway



Overhead & Pit Depth

(Unit : mm)

Duty Load (kg)	Speed (m/s)	Overhead (OH)		Pit Depth (PP)	Control Panel (CP)*
		2 Panel Center Open	2 Panel Side Open		
550 ~ 1150	1.0	3800	4300	1500	530
	1.5	3900	4400	1800	
	1.75	4000	4500	2100	
900 ~ 1150	2.0	4300	4800	2200	530
	2.5	5100	5600	2400	630
1350 ~ 1600	1.0	4200	4700	1500	530
	1.5	4300	4800	1800	630
	1.75	4500	5000	2100	
	2.0	4800	5300	2200	
	2.5	5100	5600	2400	
1750 ~ 2000	1.0	4400	4900	1750	630
	1.5	4500	5000	1900	
	1.75	4600	5100	2100	
2250 ~ 2500	1.0	5000	5500	1750	630
	1.5	5100	5600	1900	
	1.75	5300	5800	2100	

Notes : 1. Above dimentions are applied for car height of 2500mm and standard car size & opening for other applicable dimensions, please contact us.
2. In case of side open or requested wide opening size to compare car width, OH should be increased 500mm.
3. When non-satandard capacites and dimensions are required to meet the local code, please consult us.

Standard Dimensions

Manufacturer Standard

(Unit : mm)

Speed (m/sec)	Capacity		Opening Type	Clear Opening	Car		Hoistway Size		M/C Room Reaction (kg)				Pit Reaction (kg)	
	Persons	kg		OP	CA × CB	A × B	X	Y	R1	R2	R3	R4	R5	R6
1.0	8	550	2 Panel Center Open	800	1300 x 1100	1360 x 1255	2050	1700	4000	2100	1500	600	7000	1600
	9	600		800	1300 x 1190	1360 x 1345	2050	1800	4100	2300	1600	600	7300	1600
	10	700		800	1300 x 1300	1360 x 1455	2050	1800	4500	2300	1700	650	7800	1600
	11	750		800	1300 x 1400	1360 x 1555	2050	1850	4800	2300	1750	700	8100	1700
1.5	13	900		900	1600 x 1300	1660 x 1505	2300	1850	5100	2500	1800	750	9200	1900
	15	1000		900	1600 x 1400	1660 x 1555	2300	1900	5400	2700	1900	800	9800	2000
	17	1150		1000	1800 x 1400	1900 x 1570	2600	2100	6300	3400	2100	900	12500	2500
1.75	20	1350		1000	1800 x 1600	1900 x 1770	2650	2400	7700	4300	2500	1100	13900	3000
	24	1600		1100	2000 x 1700	2100 x 1870	2900	2450	7900	4600	2600	1200	15200	3200
	27	1750		1200	2100 x 1750	2200 x 1920	3000	2500	8600	4300	2900	1300	16700	2800
	30	2000		1200	2100 x 1900	2200 x 2070	3000	2550	9100	4700	3100	1300	19800	3300
	38	2500		1300	2200 x 2200	2300 x 2370	3300	3000	10300	5200	3300	1600	24000	3700
2.0	13	900		900	1600 x 1300	1700 x 1520	2500	2100	5900	3700	1800	900	11200	2300
	15	1000		900	1600 x 1400	1700 x 1670	2600	2100	6100	3900	2200	900	11800	2500
	17	1150		1000	1800 x 1400	1900 x 1670	2700	2100	6600	4200	2300	900	14200	2700
	20	1350		1000	1800 x 1600	1900 x 1870	2700	2400	8200	4600	2600	1200	16500	3100
	24	1600		1100	2000 x 1700	2100 x 1920	2900	2450	8300	4900	2700	1200	17800	3300
2.5	13	900		900	1600 x 1350	1700 x 1520	2500	2250	5900	3700	1800	900	11200	2300
	15	1000		900	1600 x 1400	1700 x 1670	2600	2250	6100	3900	2200	900	11800	2500
	17	1150		1000	1800 x 1400	1900 x 1670	2700	2250	6600	4200	2300	900	14200	2700
	20	1350		1000	1800 x 1600	1900 x 1870	2700	2400	8200	4600	2600	1200	16500	3100
	24	1600		1100	2000 x 1700	2100 x 1920	2900	2450	8300	4900	2700	1200	17800	3300

EN81 Standard

(Unit : mm)

Speed (m/sec)	Capacity		Opening Type	Clear Opening	Car		Hoistway Size		M/C Room Reaction (kg)				Pit Reaction (kg)	
	Persons	kg		OP	CA × CB	A × B	X	Y	R1	R2	R3	R4	R5	R6
1.0	7	550	2 Panel Center Open	800	1300 x 1100	1360 x 1255	2050	1700	4000	2100	1500	600	7000	1600
	8	630		800	1300 x 1190	1360 x 1345	2050	1800	4100	2300	1600	600	7300	1600
	9	700		800	1300 x 1300	1360 x 1455	2050	1800	4500	2300	1700	650	7800	1600
	10	800		800	1300 x 1400	1360 x 1555	2050	1850	4800	2300	1750	700	8100	1700
1.5	12	900		900	1600 x 1300	1660 x 1455	2300	1850	5100	2500	1800	750	9200	1900
	13	1000		900	1600 x 1400	1660 x 1555	2300	1900	5400	2700	1900	800	9800	2000
	15	1150		1000	1800 x 1400	1900 x 1570	2600	2100	6300	3400	2100	900	12500	2500
1.75	18	1350		1000	1800 x 1600	1900 x 1770	2650	2400	7700	4300	2500	1100	13900	3000
	21	1600		1100	2000 x 1700	2100 x 1870	2900	2450	7900	4600	2600	1200	15200	3200
	23	1750		1200	2100 x 1750	2200 x 1920	3000	2500	8600	4300	2900	1300	16700	2800
	26	2000		1200	2100 x 1900	2200 x 2070	3000	2550	9100	4700	3100	1300	19800	3300
	33	2500		1300	2200 x 2200	2300 x 2370	3300	3000	10300	5200	3300	1600	24000	3700
2.0	12	900		900	1600 x 1300	1700 x 1520	2500	2100	5900	3700	1800	900	11200	2300
	13	1000		900	1600 x 1400	1700 x 1670	2600	2100	6100	3900	2200	900	11800	2500
	15	1150		1000	1800 x 1400	1900 x 1670	2700	2100	6600	4200	2300	900	14200	2700
	18	1350		1000	1800 x 1600	1900 x 1870	2700	2400	8200	4600	2600	1200	16500	3100
	21	1600		1100	2000 x 1700	2100 x 1920	2900	2450	8300	4900	2700	1200	17800	3300
2.5	12	900		900	1600 x 1300	1700 x 1520	2500	2250	5900	3700	1800	900	11200	2300
	13	1000		900	1600 x 1400	1700 x 1670	2600	2250	6100	3900	2200	900	11800	2500
	15	1150		1000	1800 x 1400	1900 x 1670	2700	2250	6600	4200	2300	900	14200	2700
	18	1350		1000	1800 x 1600	1900 x 1870	2700	2400	8200	4600	2600	1200	16500	3100
	21	1600		1100	2000 x 1700	2100 x 1920	2900	2450	8300	4900	2700	1200	17800	3300

NMB SPLICE-

NMB SPLICE-SLEEVE

Steel Specification: The material properties of the NMB Splice Sleeve® iron castings conform to proprietary specification based on ASTM A536-84. The Models 5U-X and 6U-X satisfy the ASTM A536 Grade 65-45-12 [minimum yield and tensile strength of 65,000 and 45,000 psi respectively], Model 7U-X through Model 14U-X, Model A11W, and Model SNX11 satisfy ASTM A536 [Grade 80-55-06] with a Grade of 85-60-06 [minimum yield and tensile strength of 85,000 and 60,000 psi respectively].

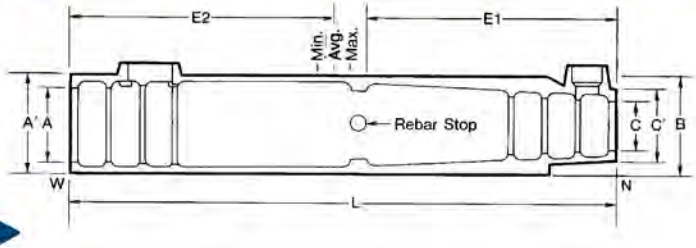
Grout Specification: The grout used in the NMB must be non-metallic, "SS Mortar®". Minimum grout strength requirements for ASTM A615 Grade 60 rebars:

Type 2 (ACI)*	(100% Fu = 150% Fy = 90 ksi)	**9,500 psi**
Type 1 & AASHTO	(125% Fy = 75 ksi)	**6,500 psi**
Yield Strength	(100% Fy = 60 ksi)	**4,000 psi**

NOTE: to allow for variations in curing, typically cube breaks of 4,000-psi are specified by the EOR for removal of bracing and continued erection.
*Note that for ASTM A706 Grade 60 rebars, 100% of specified tensile equals 133% of specified yield.

DIMENSIONS OF NMB SPLICE-SLEEVES*											RECOMMENDED REBAR EMBEDMENT LENGTH					
Sleeve No.	Bar Diameter	ASTM Bar Size		Sleeve Length (L) inch (mm)	Narrow End Diameter		Max. Dia. (B) inch (mm)	Wide End Diameter			Factory Dowel (E1) inch (mm)		Field Dowel (E2) inch (mm)			SS Mortar lbs. per Sleeve (kg)
		U.S.	Metric		I.D. (C) inch (mm)	O.D. (C') inch (mm)		I.D. (A) inch (mm)	Total Tolerance inch (mm)	O.D. (A') inch (mm)	Min.	Max.	Min.	Avg.	Max.	
5U-X	0.625	#5	16 MM	9.65 (245)	0.87 (22)	1.50 (38)	1.81 (46)	1.26 (32)	0.63 (16)	1.89 (48)	4.13 (105)	4.33 (110)	4.13 (105)	4.53 (115)	4.92 (125)	1.26 (0.57)
6U-X	0.750	#6	20 MM	11.22 (285)	1.02 (26)	1.65 (42)	1.97 (50)	1.42 (36)	0.67 (17)	2.05 (52)	4.92 (125)	5.12 (130)	4.92 (125)	5.32 (135)	5.71 (145)	1.76 (0.80)
7U-X	0.875	#7	22 MM	12.80 (325)	1.14 (29)	1.77 (45)	2.28 (58)	1.73 (44)	0.86 (22)	2.36 (60)	5.71 (145)	5.91 (150)	5.71 (145)	6.11 (155)	6.50 (165)	2.65 (1.20)
8U-X	1.000	#8	25 MM	14.57 (370)	1.30 (33)	1.93 (49)	2.48 (63)	1.89 (48)	0.89 (23)	2.52 (64)	6.50 (165)	6.69 (170)	6.50 (165)	6.99 (178)	7.48 (190)	3.46 (1.57)
9U-X	1.128	#9	28 MM	16.34 (415)	1.42 (36)	2.06 (52)	2.60 (66)	2.01 (51)	0.89 (23)	2.67 (68)	7.40 (188)	7.56 (192)	7.40 (188)	7.88 (200)	8.35 (212)	3.95 (1.79)
10U-X	1.270	#10	32 MM	17.91 (455)	1.57 (40)	2.28 (58)	2.80 (71)	2.16 (55)	0.89 (23)	2.87 (73)	8.19 (208)	8.35 (212)	8.19 (208)	8.66 (220)	9.13 (232)	4.94 (2.24)
11U-X	1.410	#11	35 MM	19.49 (495)	1.73 (44)	2.40 (61)	3.03 (77)	2.32 (59)	0.91 (23)	3.03 (77)	8.98 (228)	9.13 (232)	8.98 (228)	9.45 (240)	9.92 (252)	6.02 (2.73)
SNX11	1.410	#11	35 MM	19.09 (485)	1.69 (43)	3.03 (77)	3.03 (77)	2.32 (59)	0.91 (23)	3.03 (77)	8.86 (225)	9.25 (235)	8.27 (210)	8.86 (225)	9.45 (240)	6.99 (3.17)
A11W	1.410	#11	35 MM	19.49 (495)	1.73 (44)	3.31 (84)	3.30 (84)	2.60 (66)	1.19 (30)	3.30 (84)	8.86 (225)	9.69 (246)	8.27 (210)	8.96 (228)	9.50 (241)	7.74 (3.52)
14U-X	1.693	#14	40 MM	24.41 (620)	2.01 (51)	2.80 (71)	3.46 (88)	2.60 (66)	0.91 (23)	3.46 (88)	11.42 (290)	11.61 (295)	11.42 (290)	11.91 (303)	12.40 (315)	9.19 (4.17)
18U	2.257	#18	57 MM	36.22 (920)	2.68 (68)	3.66 (93)	4.72 (120)	3.27 (83)	1.01 (26)	4.25 (108)	17.00 (432)	18.11 (460)	17.00 (432)	17.56 (446)	18.11 (460)	25.31 (11.48)

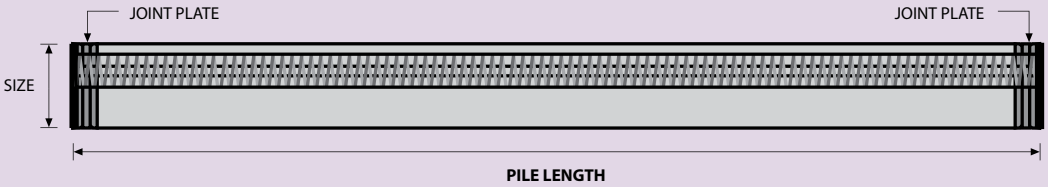
**The minimum embedment length for the bars using a larger size sleeve must follow the requirements for the sleeve size, not the bar size. For example, for a #9 bar with #11U-X sleeve, the embedment length must be based upon 11U-X, i.e. the maximum factory dowel (E1) is 9.13"; the maximum field dowel (E2) is 9.92".



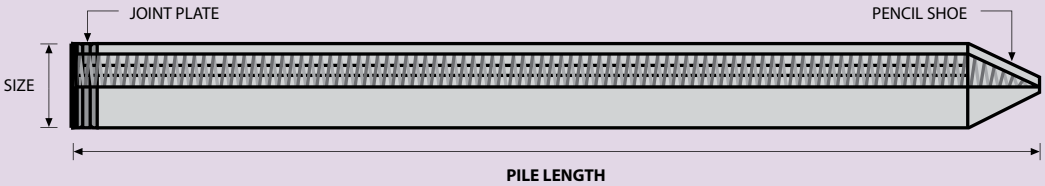
MATERIAL **SPECIFICATION**

ITEM	REFERENCE	DESCRIPTION	SPECIFICATION
Aggregate	ASTM C 33 / C 33M-11a	Standard Specification for Concrete Aggregates	
Cement	SNI 15 - 2049 - 2004	Portland Cement	Standard Product Type I Special Order : Type II or V
Admixture	ASTM C 494 / C 494M - 99a	Standard Specification for Chemical Admixture for Concrete	Type F : High Range Water Reducing Admixture
Concrete	SNI 03 - 2834 - 1993 SNI 03 - 2493 - 1991	Concrete Mix Design Making and Curing Concrete Sample	
PC Strand	ASTM A 416 / A 416M - 99	Standard Specification for Steel Strand, Uncoated Seven-Wire for Prestressed Concrete	Grade 270 (Low Relaxation Type)
PC Wire	JIS G 3536 - 1999	Uncoated Stress-Relieved Steel Wires and Strands for Prestressed Concrete	SWPD1 (Deformed Wire Type)
PC Bar	JIS G 3137 - 1994	Small Size-Deformed Steel Bars for Prestressed Concrete	Grade D - Class 1 - SBPD 1275/1420
Rebar	SNI 07 - 2052 - 2002	Reinforcement Steel for Concrete	Steel Class : BjTS 40 (Deformed) Steel Class : BjTP 24 (Round)
Spiral Wire	JIS G 3532 - 2000	Low Carbon Steel Wires	SWM-P (Round Type) Cold-reduced steel wire for the reinforcement of concrete and the manufacture of welded fabric.
Joint Plate	JIS G 3101 - 2004	Rolled Steels for General Structure	SS400 (Tensile Strength 400 N/mm2) Applicable steel product for steel plates and sheets, steel strip in coil, sections, flats and bars.
Welding	ANSI / AWS D1.1 - 900	Structural Welding Code Steel	AWS A5.1/E6013 NIKKO STEEL RB 26 / RD 260, LION 26, or equivalent.

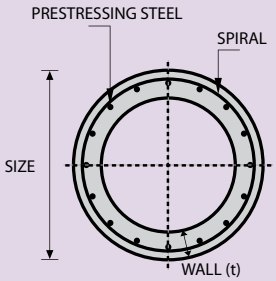
PILE SHAPE & SPECIFICATION | PRESTRESSED CONCRETE SPUN PILES



MIDDLE / UPPER PILE



BOTTOM / SINGLE PILE



PILE SECTION

PRESTRESSED CONCRETE SPUN PILES **SPECIFICATION**

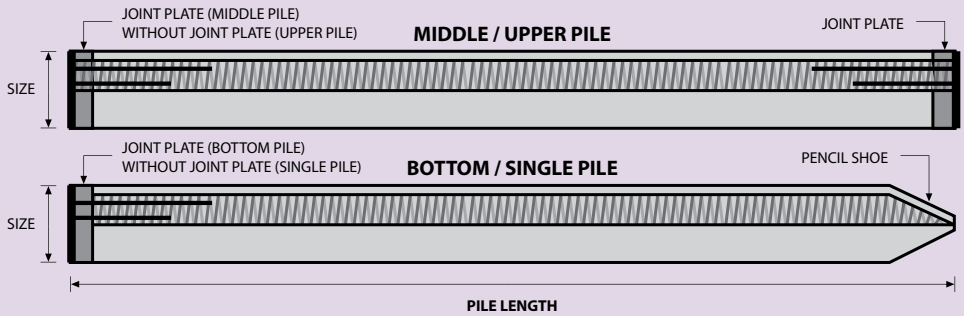
Concrete Compressive Strength fc' = 52 MPa (Cube 600 kg/cm²)

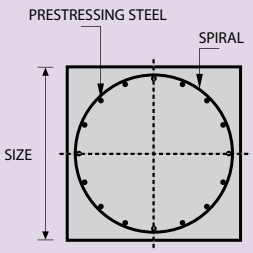
Size (mm)	Thickness Wall (t)	Cross Section (cm²)	Section Inertia (cm⁴)	Unit Weight (kg/m)	Class	Bending Moment		Allowable Compression (ton)	Decompression Tension (ton)	Length of Pile ** (m)
						Crack * (ton.m)	Break (ton.m)			
300	60	452.39	34,607.78	113	A2	2.50	3.75	72.60	23.11	6 - 12
					A3	3.00	4.50	70.75	29.86	6 - 13
					B	3.50	6.30	67.50	41.96	6 - 14
					C	4.00	8.00	65.40	49.66	6 - 15
350	65	581.98	62,162.74	145	A1	3.50	5.25	93.10	30.74	6 - 13
					A3	4.20	6.30	89.50	37.50	6 - 14
					B	5.00	9.00	86.40	49.93	6 - 15
					C	6.00	12.00	85.00	60.87	6 - 16
400	75	765.76	106,488.95	191	A2	5.50	8.25	121.10	38.62	6 - 14
					A3	6.50	9.75	117.60	45.51	6 - 15
					B	7.50	13.50	114.40	70.27	6 - 16
					C	9.00	18.00	111.50	80.94	6 - 17
450	80	929.91	166,570.38	232	A1	7.50	11.25	149.50	39.28	6 - 14
					A2	8.50	12.75	145.80	53.39	6 - 15
					A3	10.00	15.00	143.80	66.57	6 - 16
					B	11.00	19.80	139.10	78.84	6 - 17
					C	12.50	25.00	134.90	100.45	6 - 18
500	90	1,159.25	255,324.30	290	A1	10.50	15.75	185.30	54.56	6 - 15
					A2	12.50	18.75	181.70	68.49	6 - 16
					A3	14.00	21.00	178.20	88.00	6 - 17
					B	15.00	27.00	174.90	94.13	6 - 18
					C	17.00	34.00	169.00	122.04	6 - 19
600	100	1,570.80	510,508.81	393	A1	17.00	25.50	252.70	70.52	6 - 16
					A2	19.00	28.50	249.00	77.68	6 - 17
					A3	22.00	33.00	243.20	104.94	6 - 18
					B	25.00	45.00	238.30	131.10	6 - 19
					C	29.00	58.00	229.50	163.67	6 - 20
800	120	2,563.54	1,527,869.60	641	A1	40.00	60.00	415.00	119.34	6 - 20
					A2	46.00	69.00	406.10	151.02	6 - 21
					A3	51.00	76.50	399.17	171.18	6 - 22
					B	55.00	99.00	388.61	215.80	6 - 23
					C	65.00	130.00	368.17	290.82	6 - 24
1000 ***	140	3,782.48	3,589,571.20	946	A1	75.00	112.50	613.52	169.81	6 - 22
					A2	82.00	123.00	601.27	215.16	6 - 23
					A3	93.00	139.50	589.66	258.19	6 - 24
					B	105.00	189.00	575.33	311.26	6 - 24
					C	120.00	240.00	555.23	385.70	6 - 24
1200 ***	150	4,948.01	6,958,136.85	1,237	A1	120.00	180.00	802.80	221.30	6 - 24
					A2	130.00	195.00	794.50	252.10	6 - 24
					A3	145.00	217.50	778.60	311.00	6 - 24
					B	170.00	306.00	751.90	409.60	6 - 24
					C	200.00	400.00	721.50	522.20	6 - 24

*Note : *) Crack Moment Based on JIS A 5335-1987 (Prestressed Spun Concrete Piles)*
***) Length of pile may exceed usual standard whenever lifted in certain position*
****) Type of Shoe for Bottom Pile is Mamira Shoe*

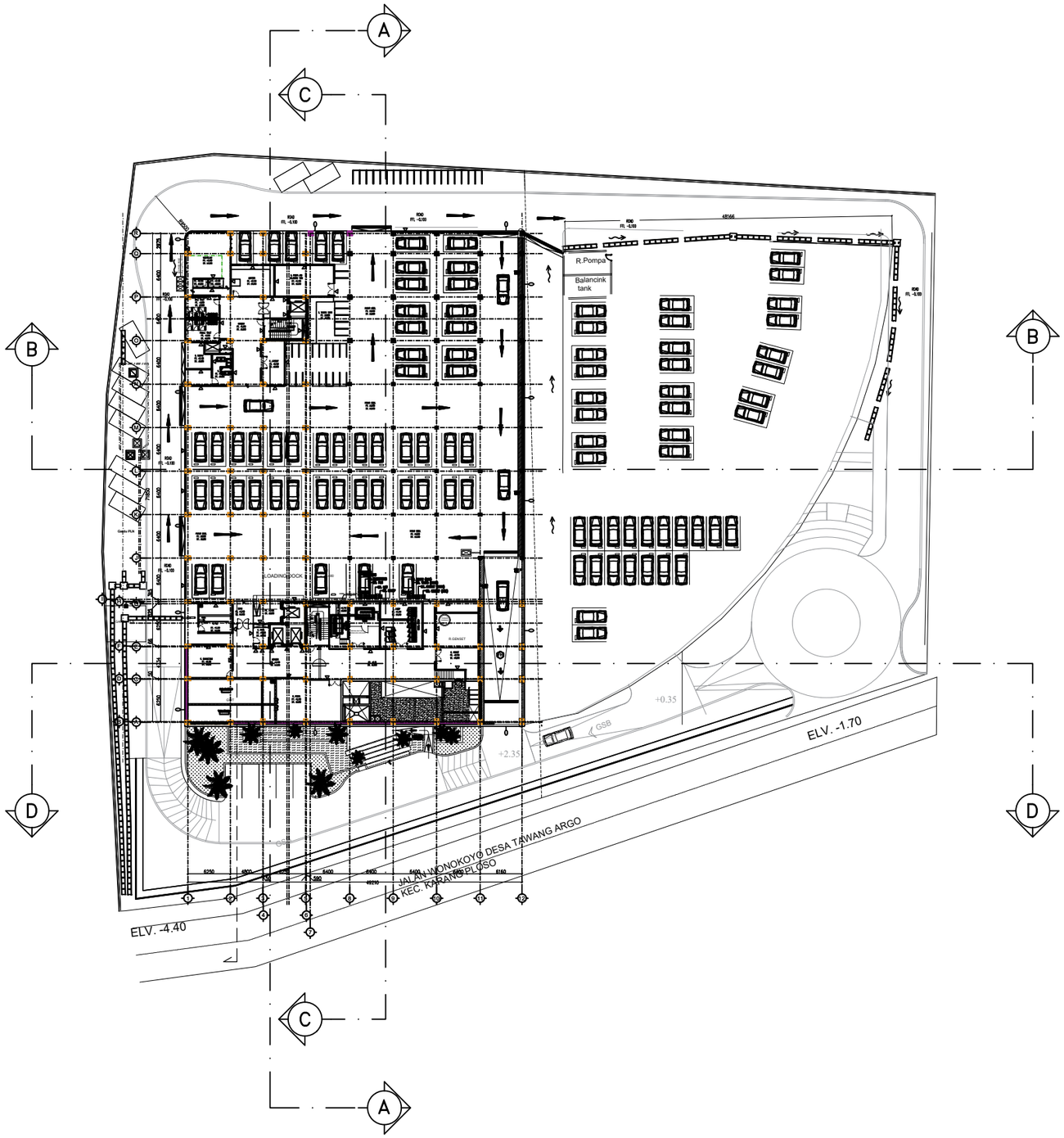
Unit Conversion : 1 ton = 9.8060 kN

PILE SHAPE & SPECIFICATION | PRESTRESSED CONCRETE SQUARE PILES





PILE SECTION



DENAH LT 1
SKALA 1:100

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DENAH LT 1

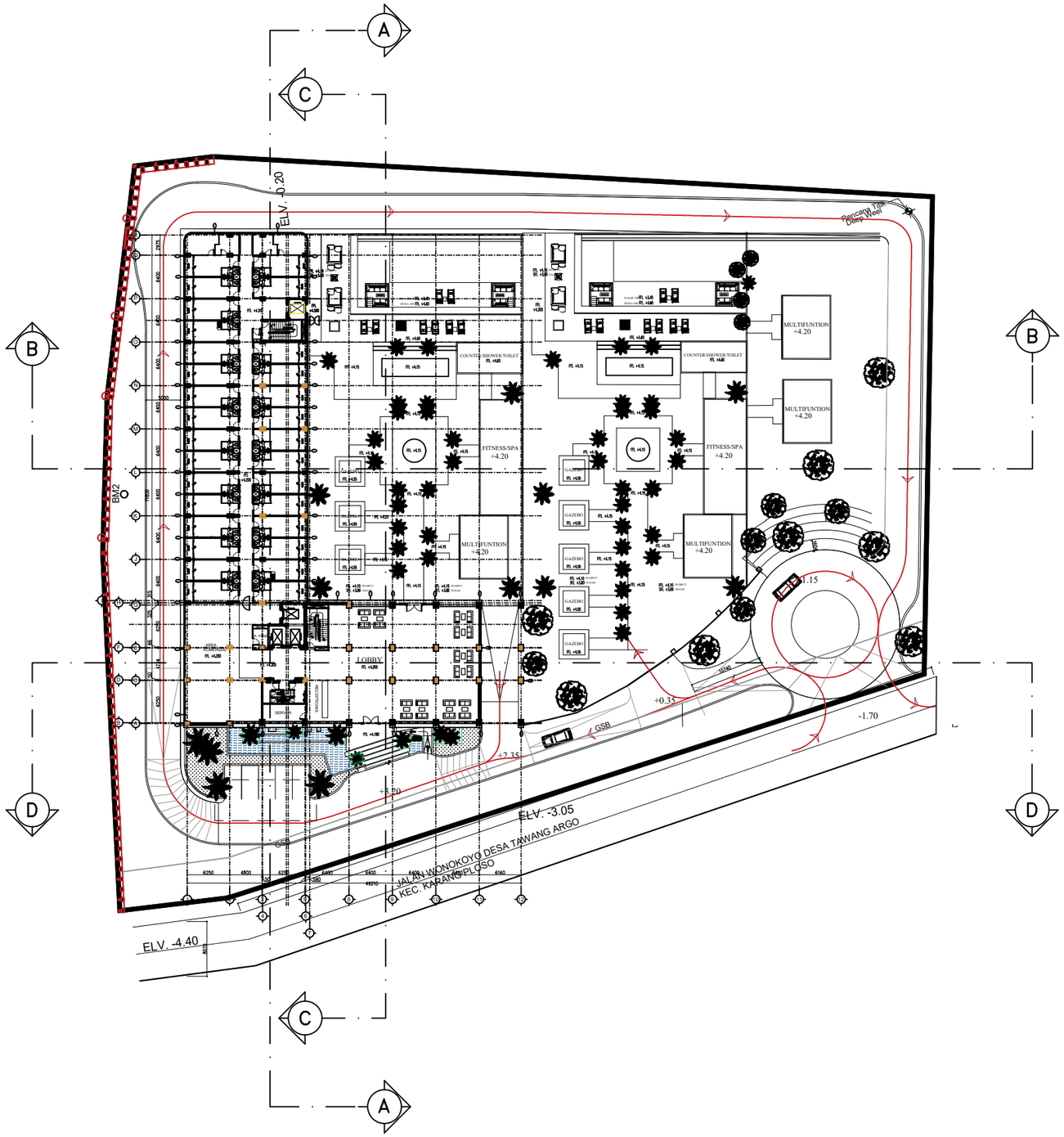
SKALA GAMBAR

1 : 100

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
ARS	1	



DENAH LT 2
SKALA 1:100

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

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DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DENAH LT 2

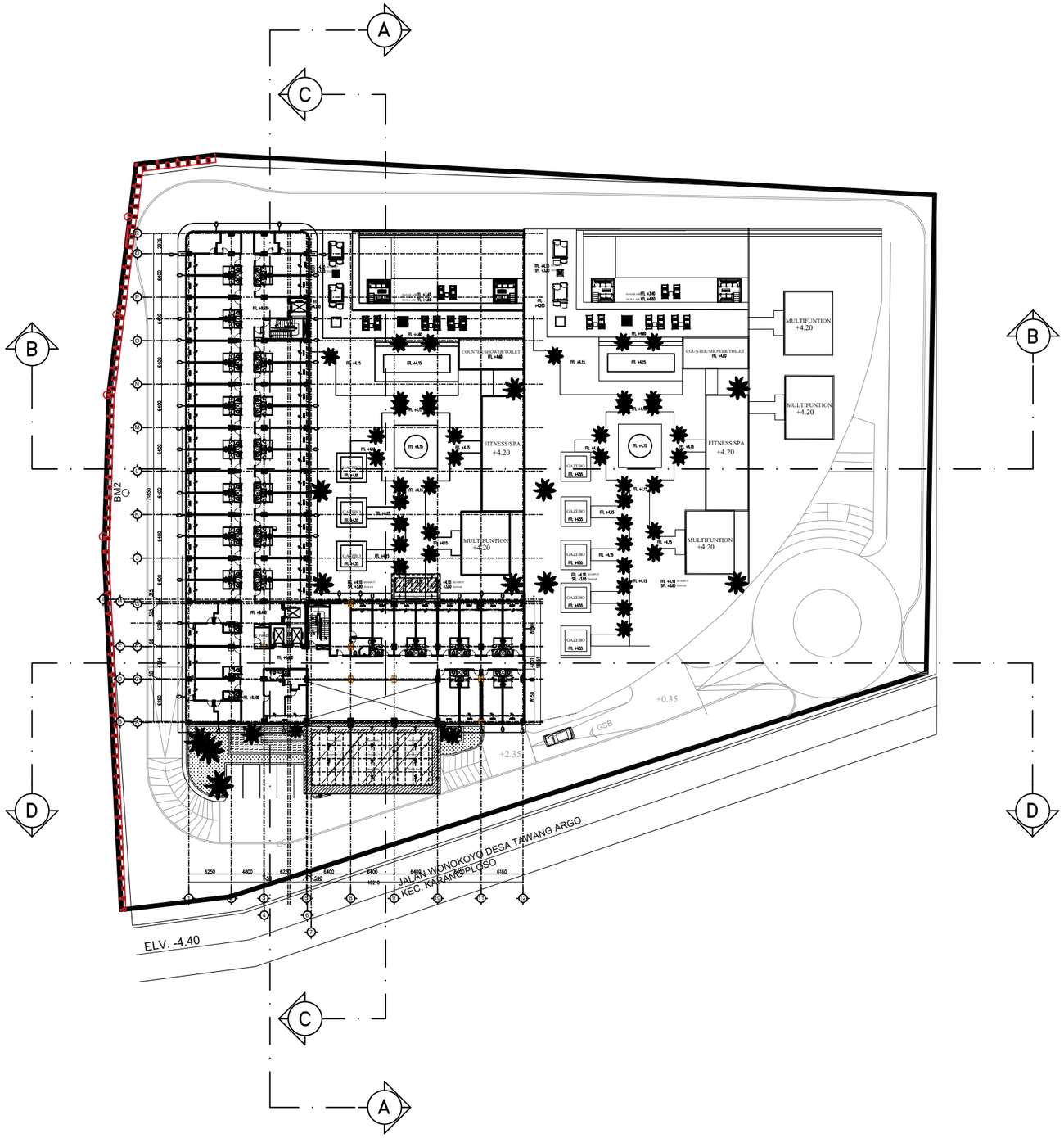
SKALA GAMBAR

1 : 100

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
ARS	2	



DENAH LT 3 - 12

SKALA 1:100

UNIVERSITAS MUHAMMADIYAH GRESIK

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

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RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DENAH LT 3 - 12

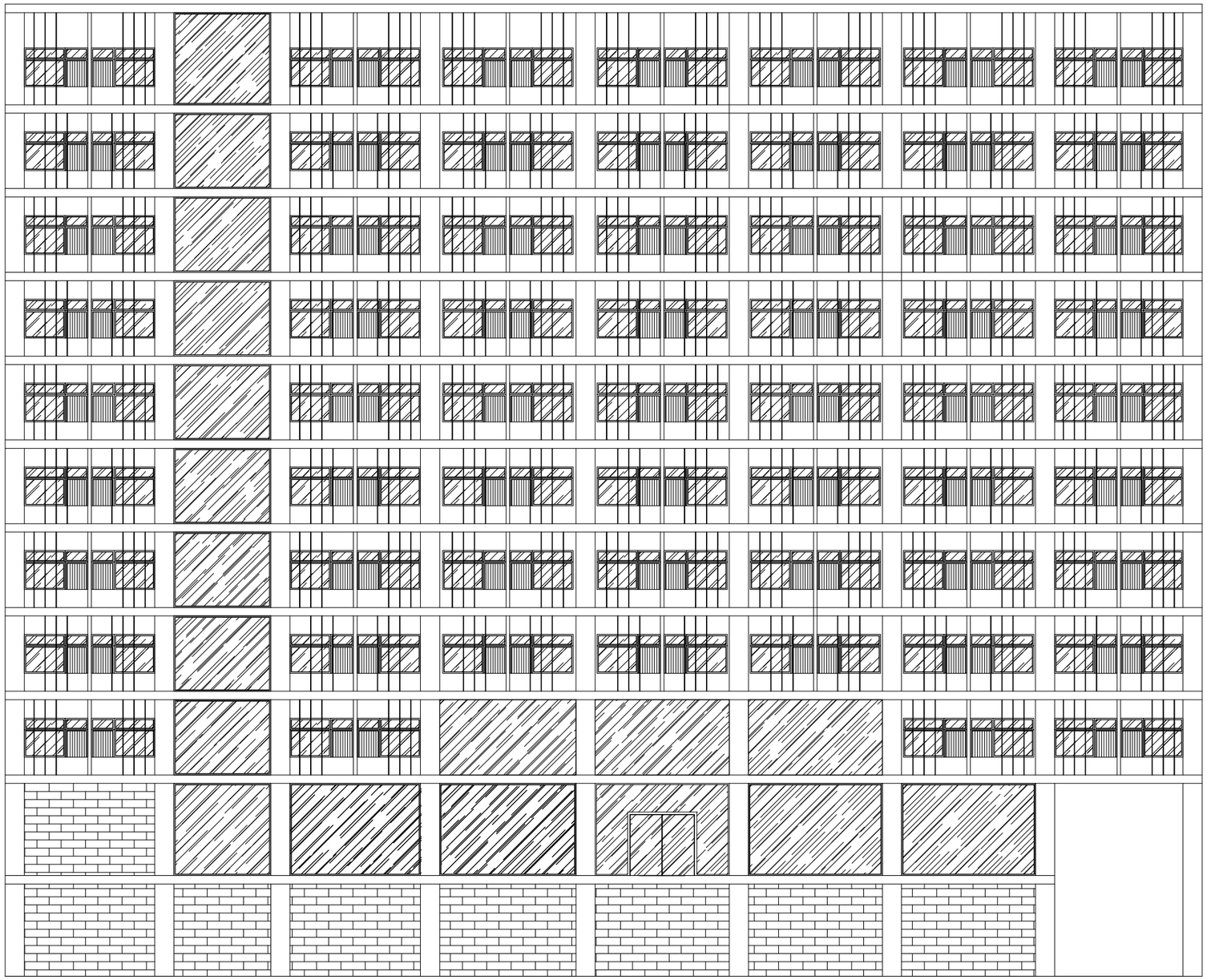
SKALA GAMBAR

1 : 100

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
ARS	3	



TAMPAK DEPAN
SKALA 1:100

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

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RAHMAT DWI SUTRISNO, S .ST., M.T.

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NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

TAMPAK DEPAN

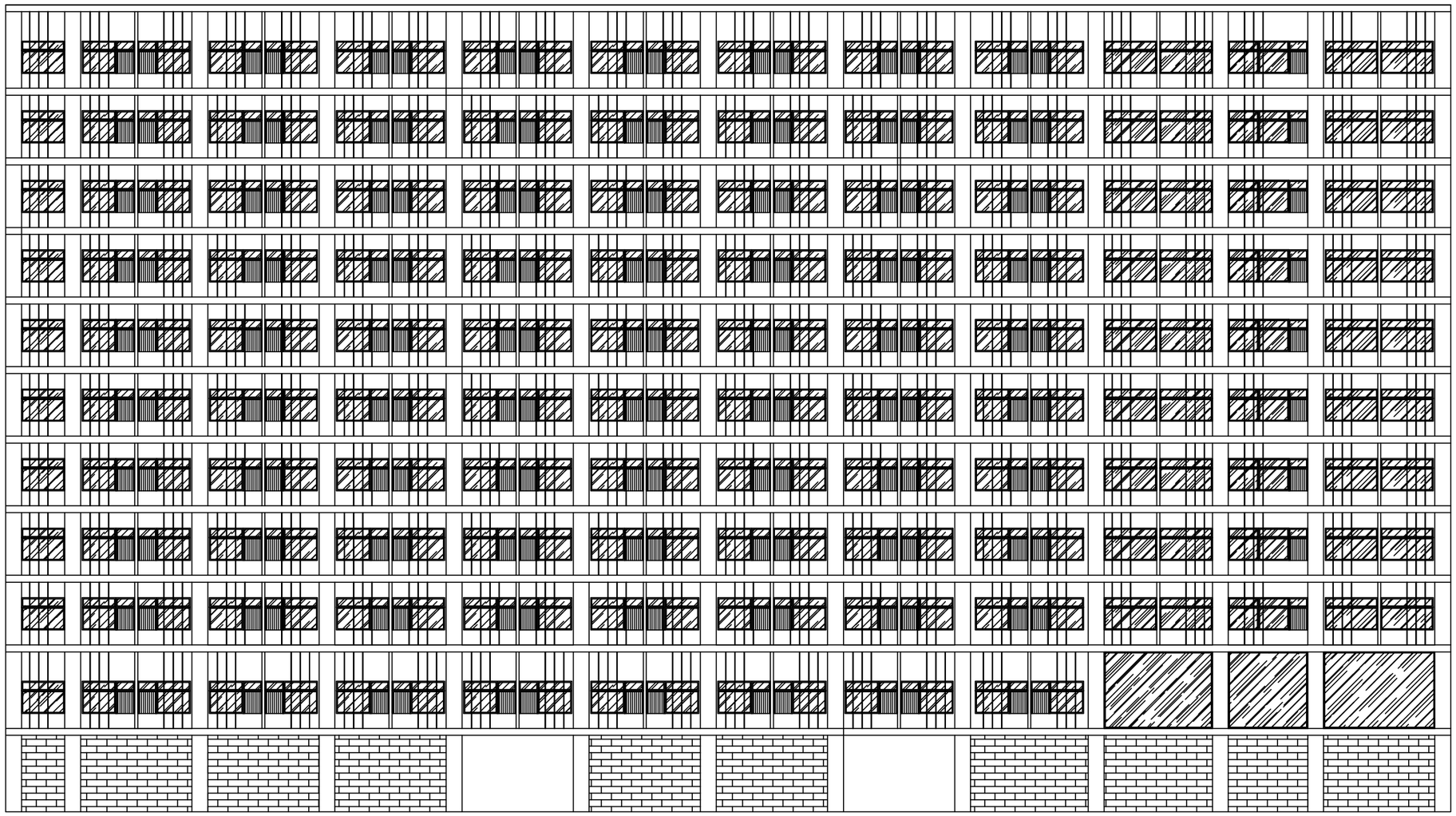
SKALA GAMBAR

1 : 100

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
ARS	4	



TAMPAK SAMPING KANAN
SKALA 1:100

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

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NIM : 210607019

JUDUL GAMBAR

TAMPAK SAMPING KANAN

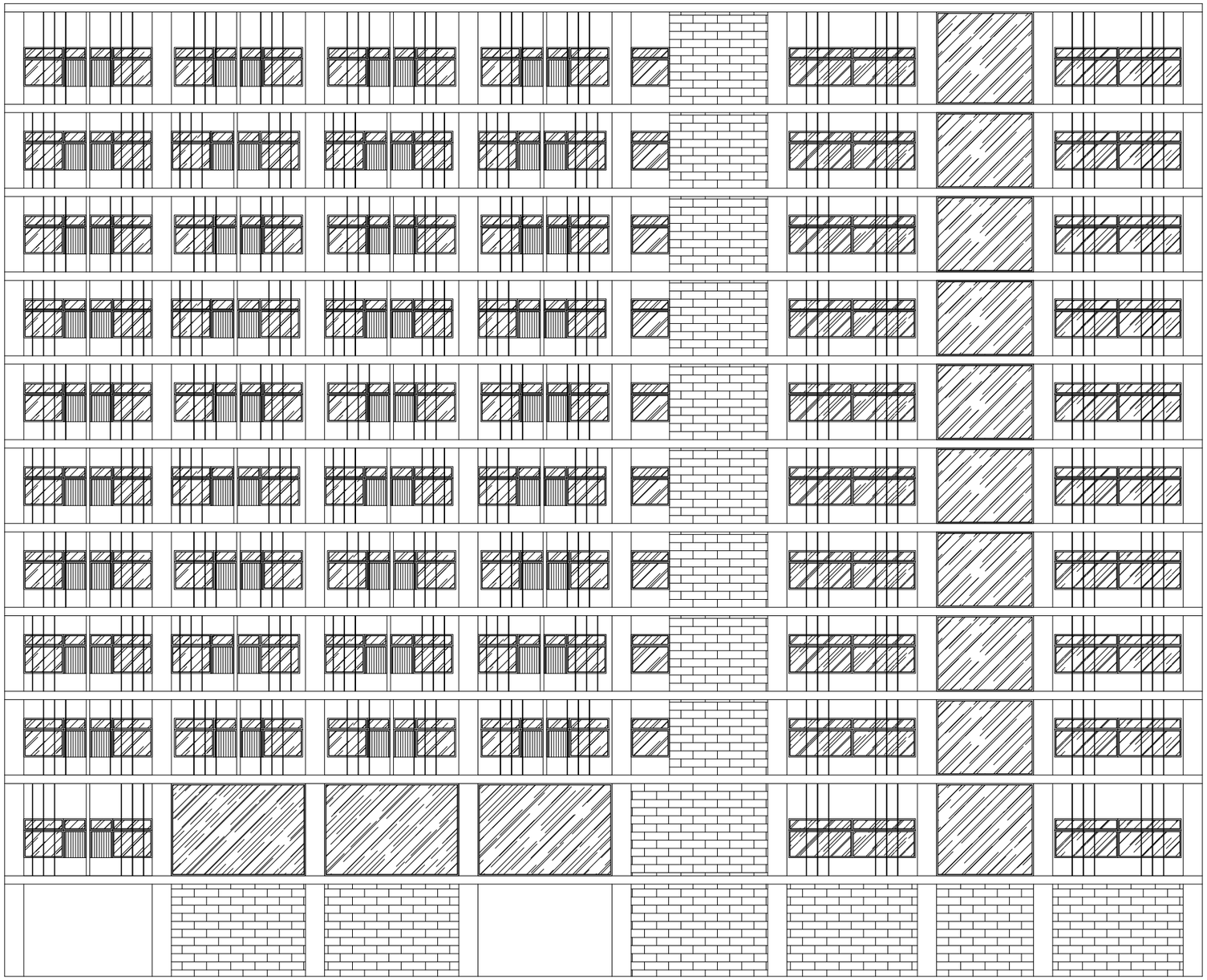
SKALA GAMBAR

1 : 100

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
ARS	5	



TAMPAK BELAKANG
SKALA 1:100

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

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DOSEN PEMBIMBING

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MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

TAMPAK BELAKANG

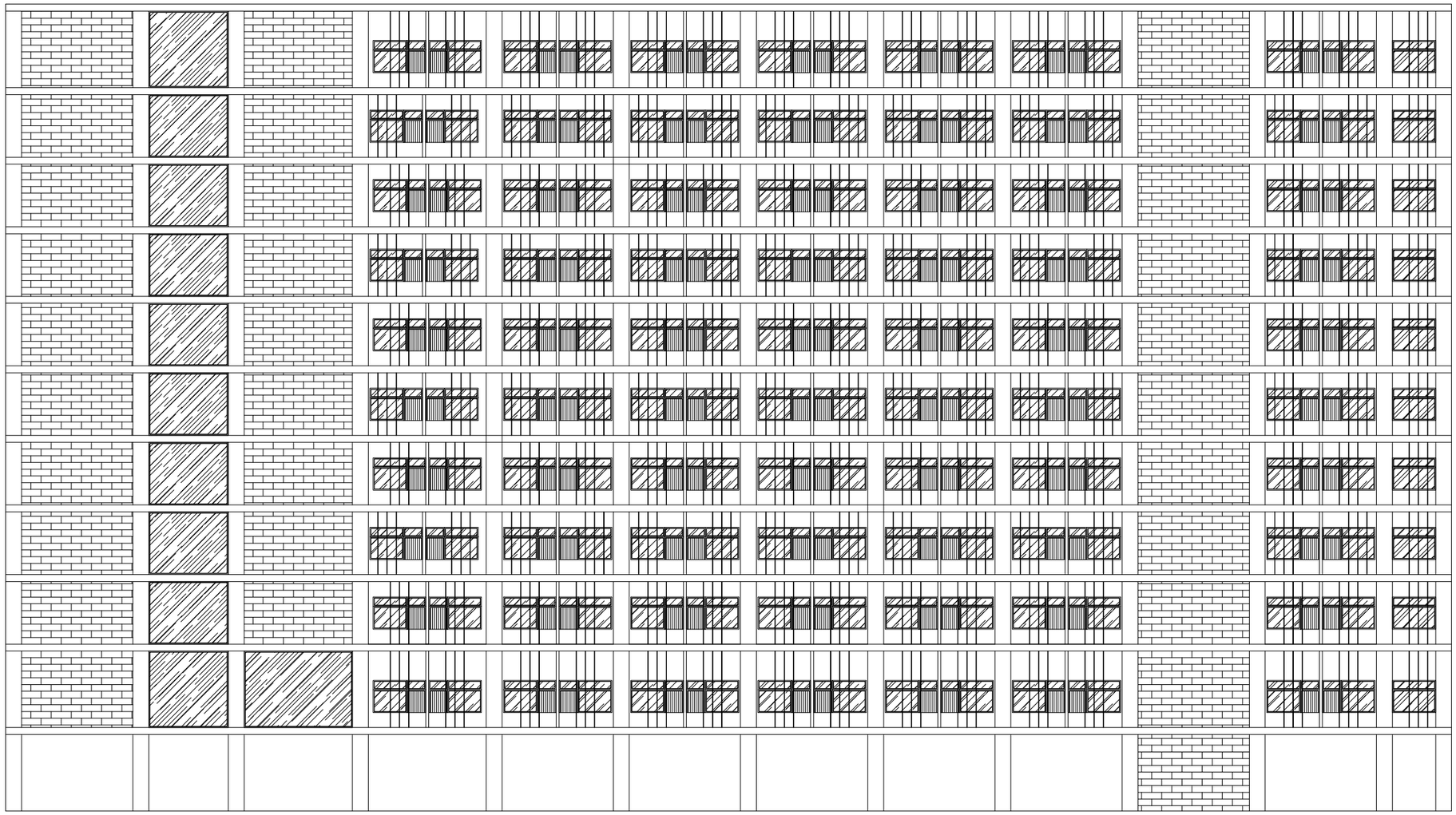
SKALA GAMBAR

1 : 100

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
ARS	6	



TAMPAK SAMPING KIRI
SKALA 1:100

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

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DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

TAMPAK SAMPING KIRI

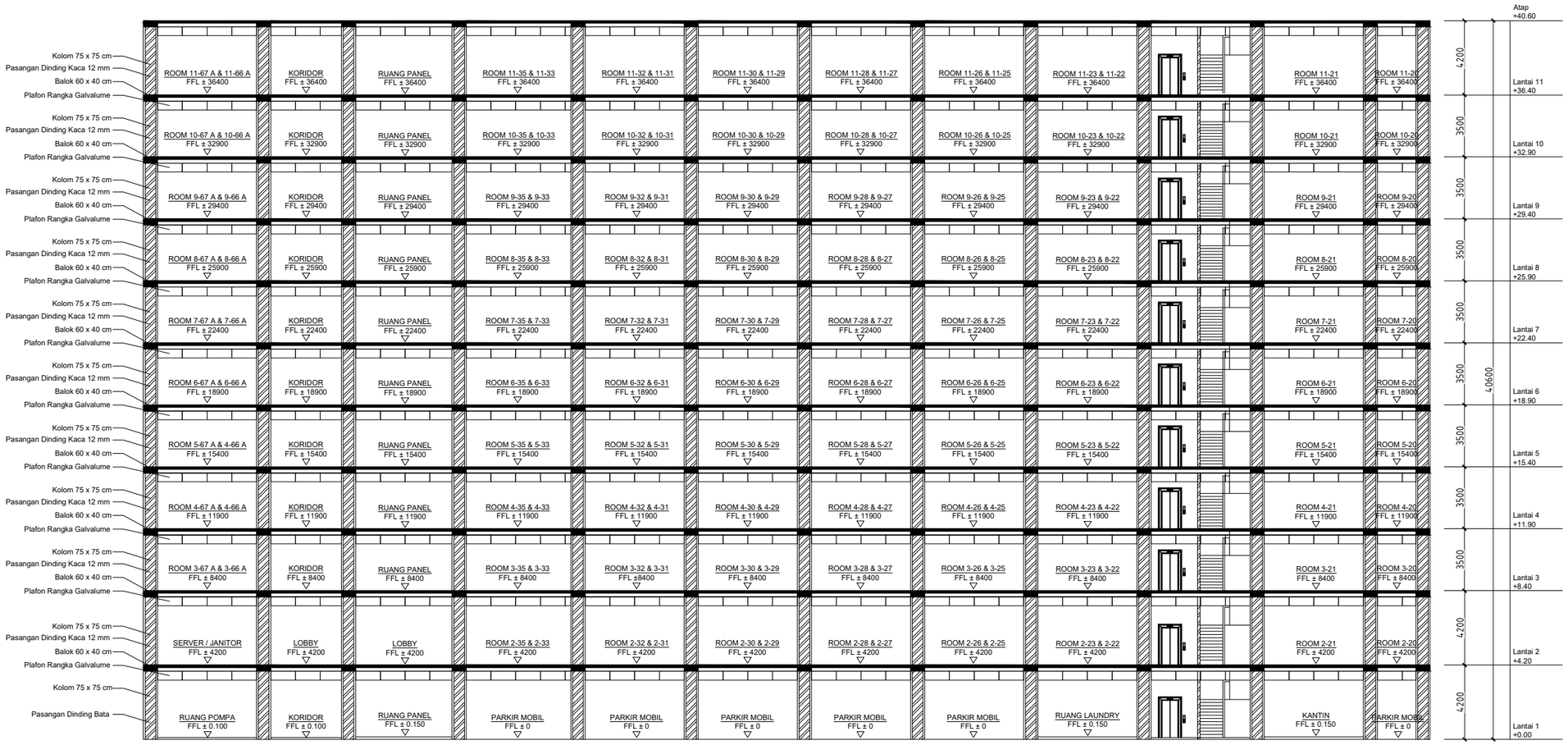
SKALA GAMBAR

1 : 100

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
ARS	7	



POTONGAN A - A
SKALA 1:100

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

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DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

POTONGAN A - A

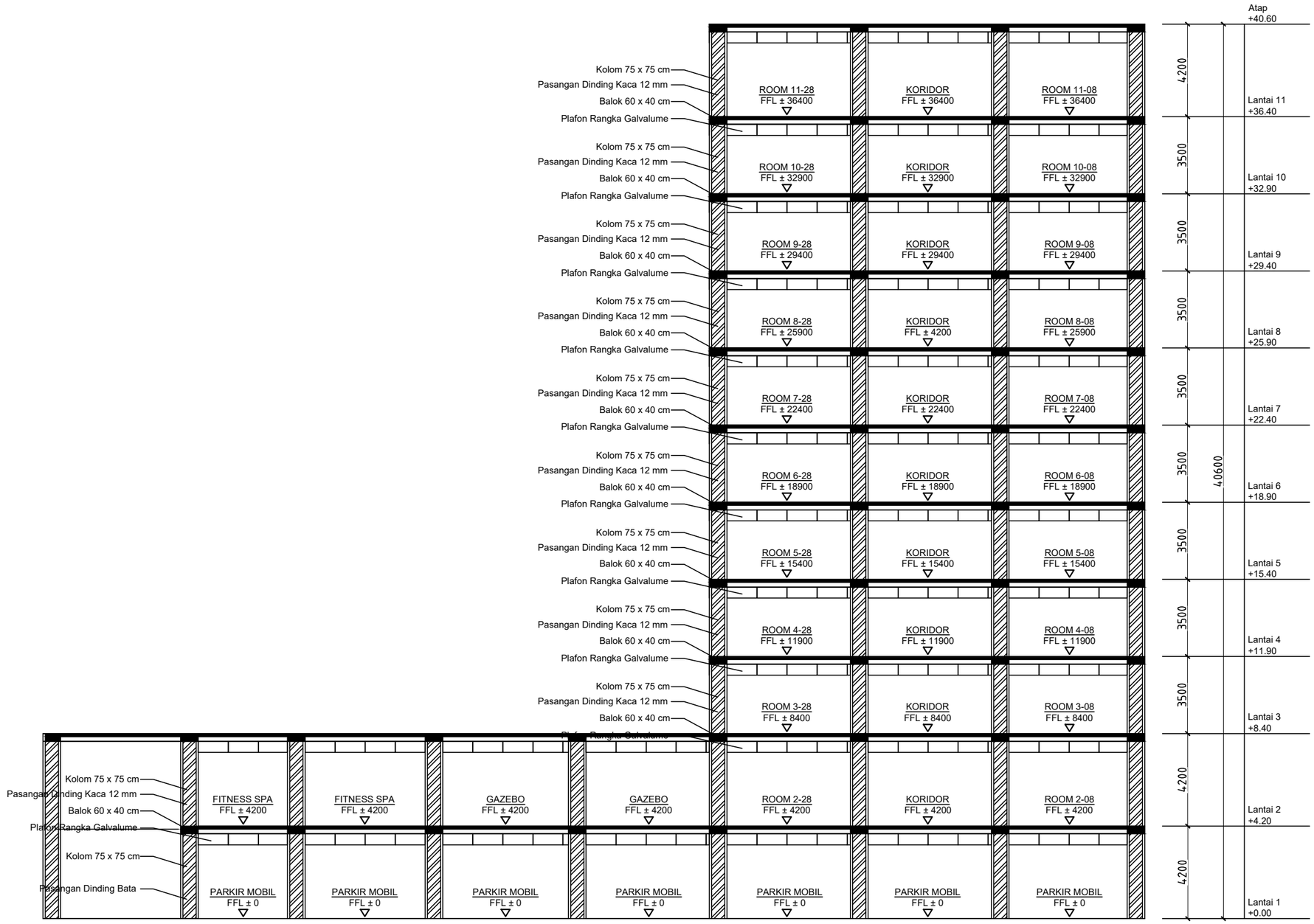
SKALA GAMBAR

1 : 100

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
ARS	8	



POTONGAN B - B
SKALA 1:100

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

POTONGAN B - B

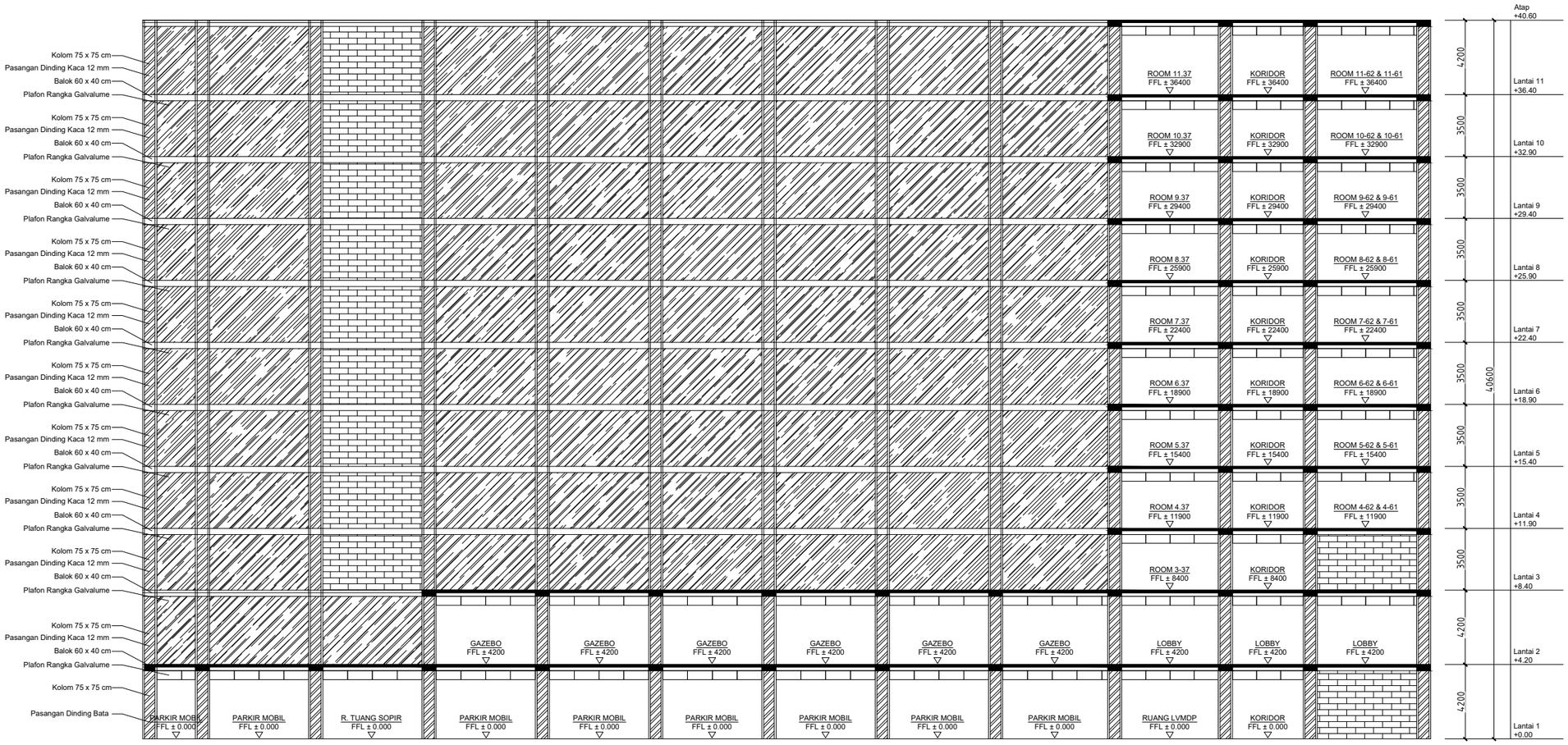
SKALA GAMBAR

1 : 100

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
ARS	9	



POTONGAN C - C
SKALA 1:100

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

POTONGAN C - C

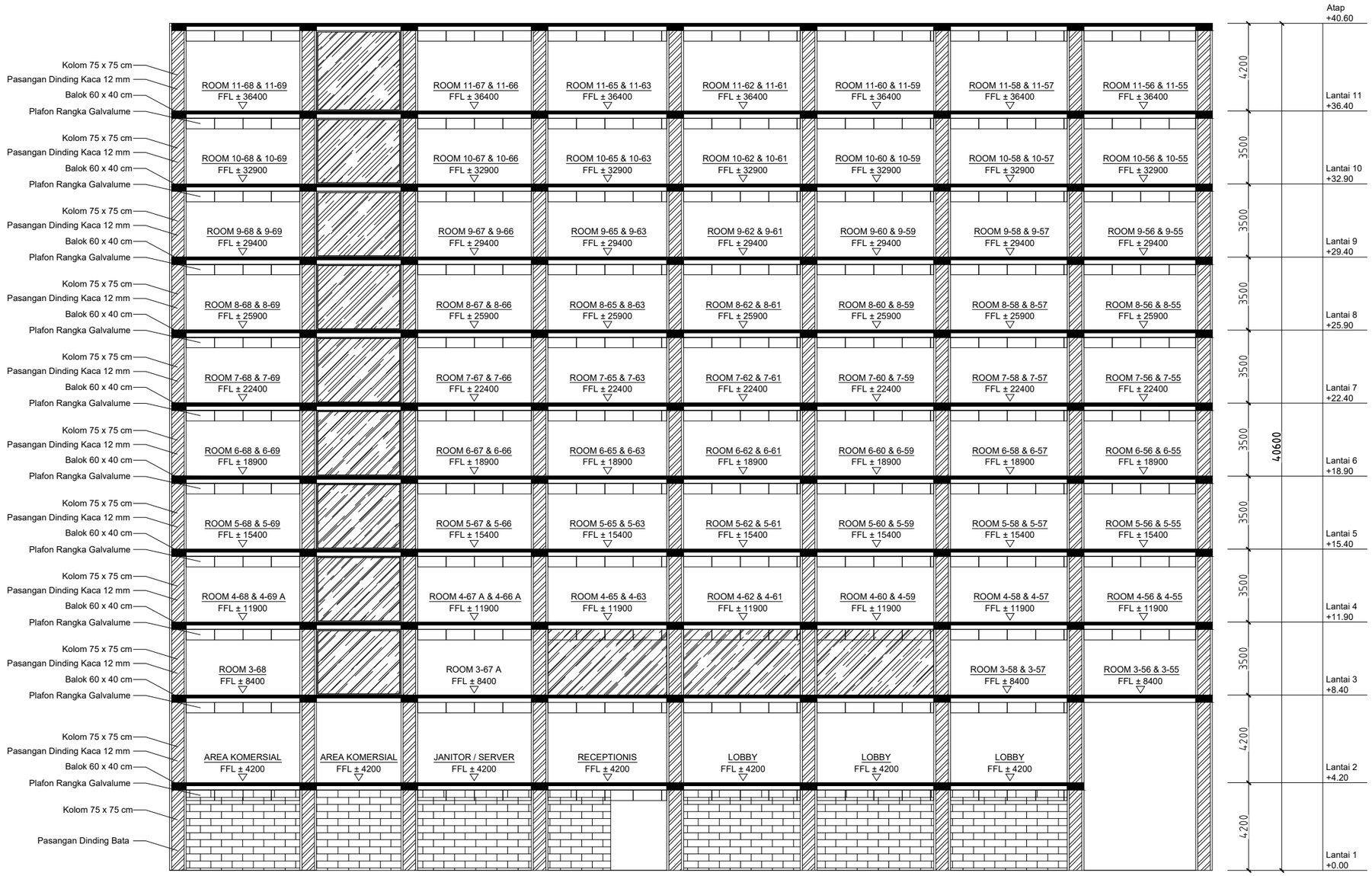
SKALA GAMBAR

1 : 100

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
ARS	10	



POTONGAN D - D
SKALA 1:100

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

POTONGAN D - D

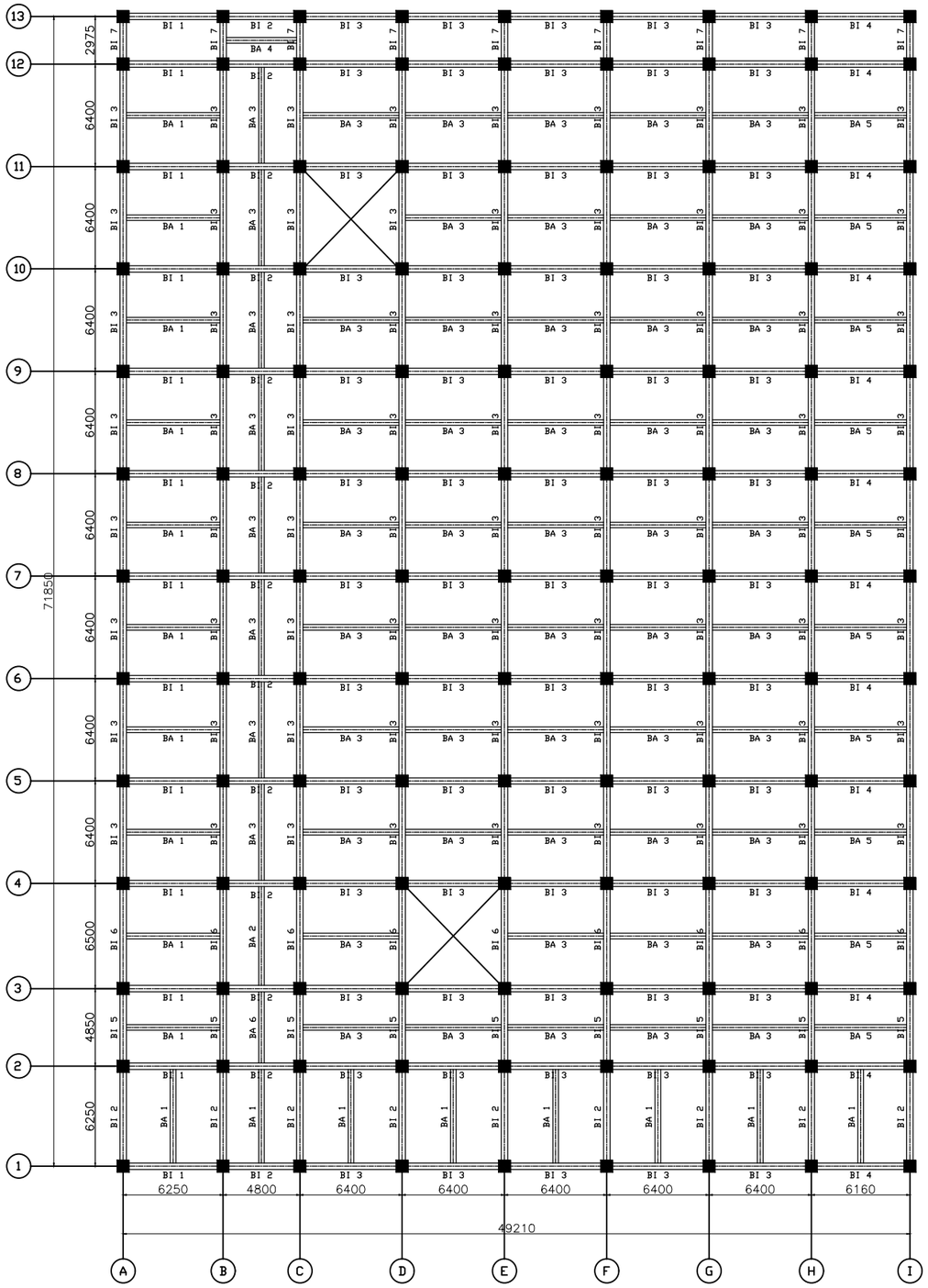
SKALA GAMBAR

1 : 100

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
ARS	11	



DENAH BALOK LT 1 - 2
SKALA 1:100

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DENAH RENCANA BALOK LT. 1 - 2

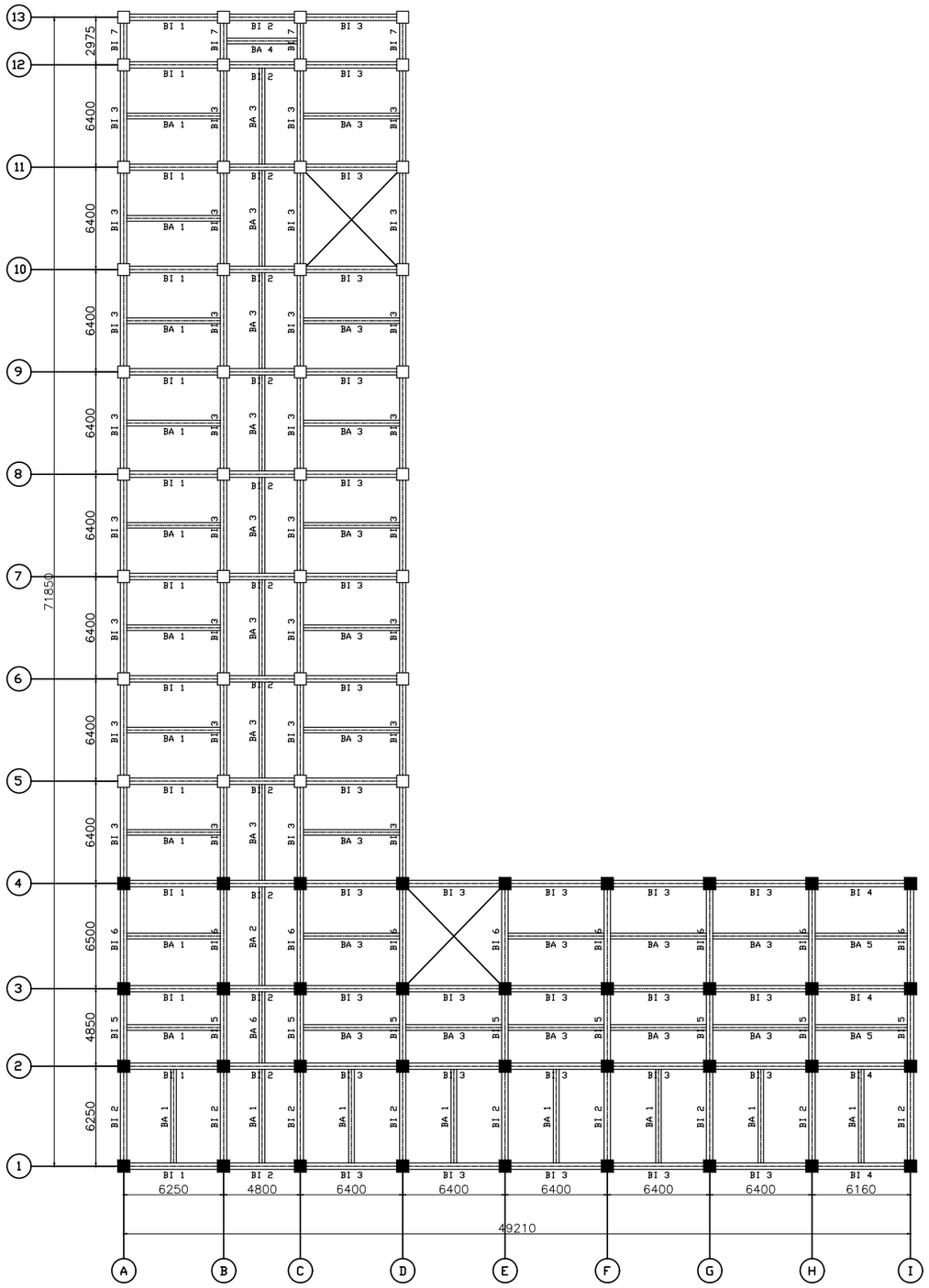
SKALA GAMBAR

1 : 100

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	12	



DENAH BALOK LT 3 -12
SKALA 1:100

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DENAH RENCANA BALOK LT. 3 - 12

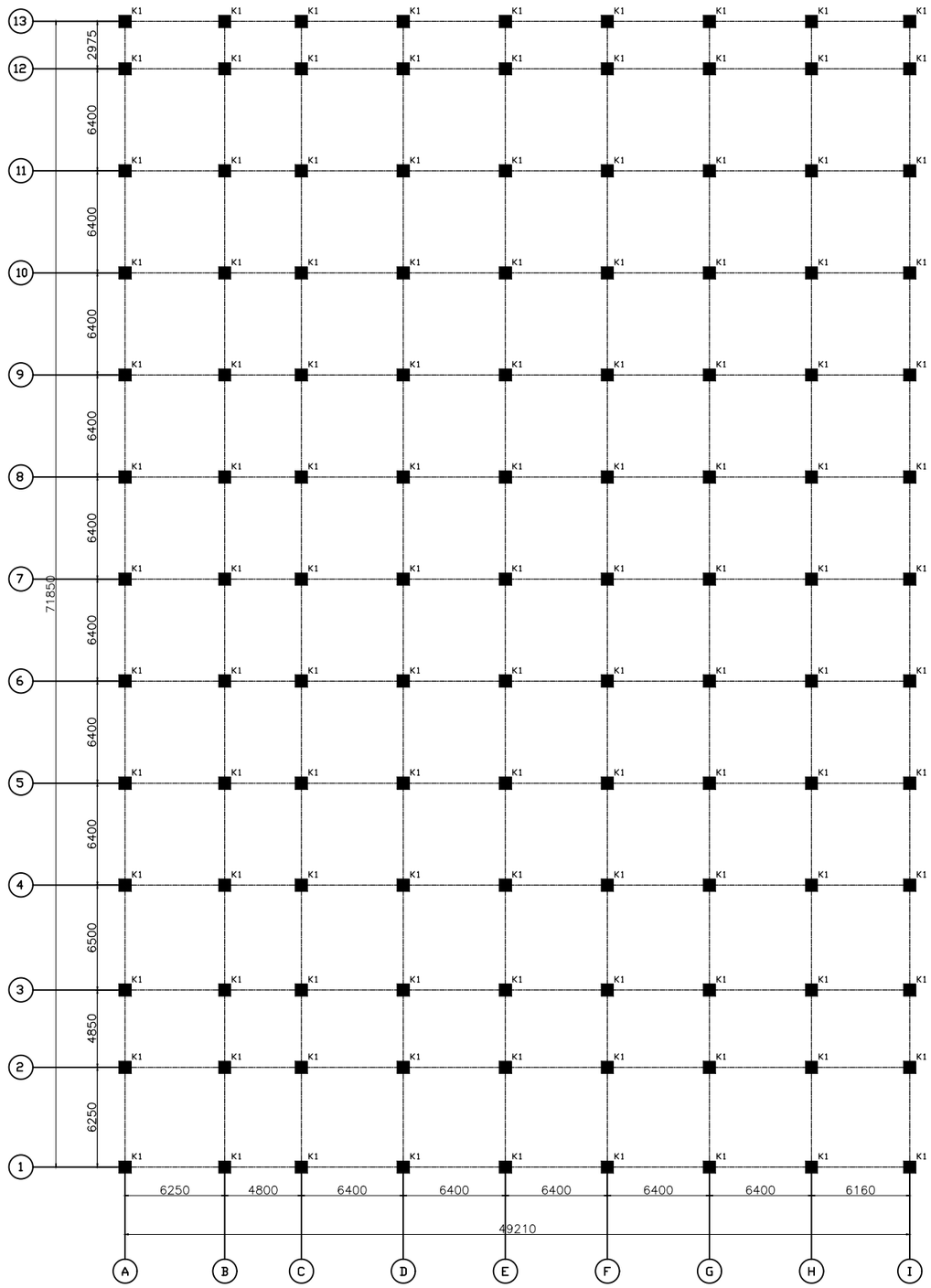
SKALA GAMBAR

1 : 100

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	13	



DENAH KOLOM LT 1 - 2
SKALA 1:100

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DENAH RENCANA KOLOM LT. 1 - 2

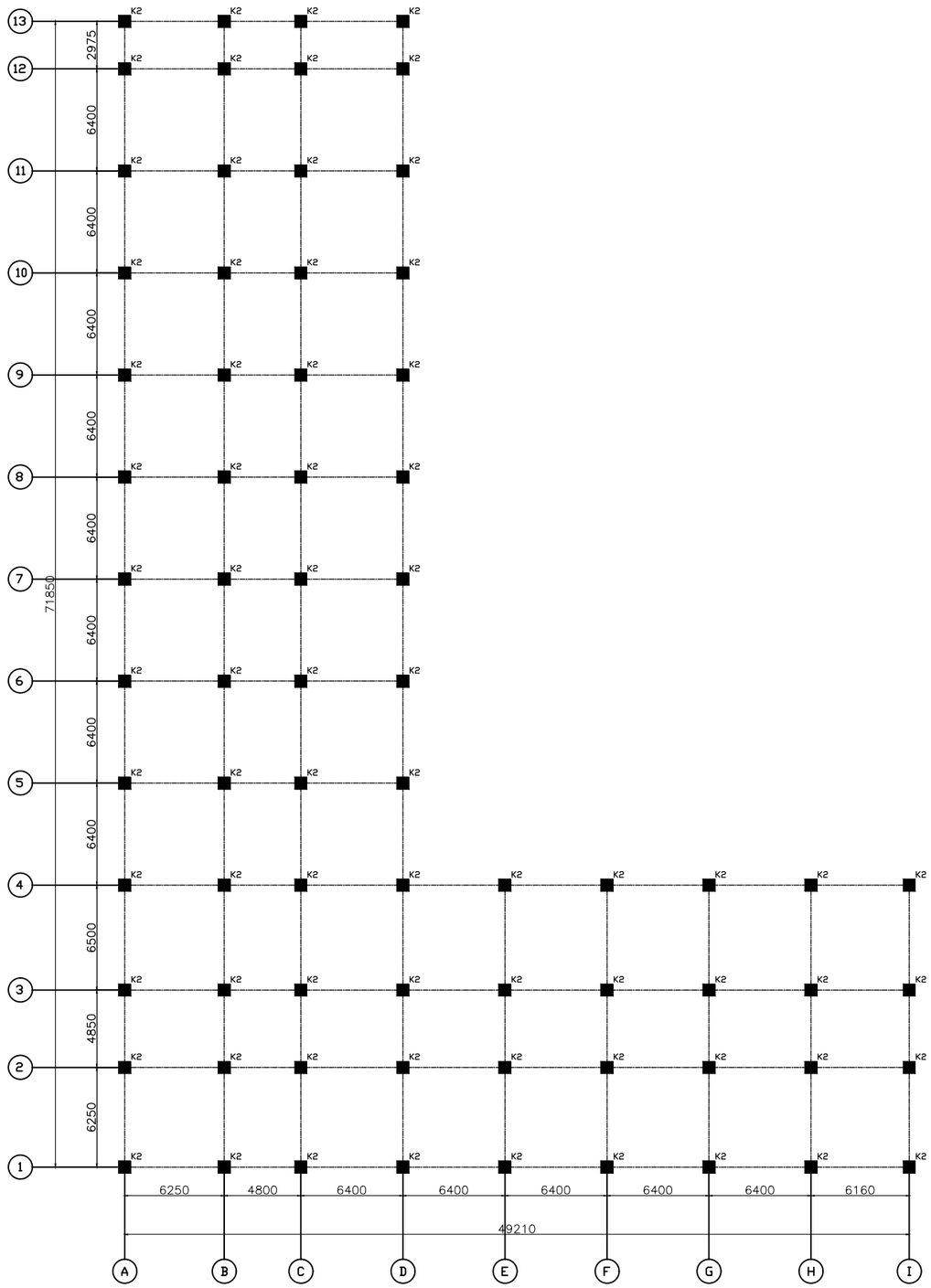
SKALA GAMBAR

1 : 100

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	14	



DENAH KOLOM LT 3 - 12
SKALA 1:100

PROGRAM STUDI TEKNIK SIPIL
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UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DENAH RENCANA KOLOM LT. 3 - 12

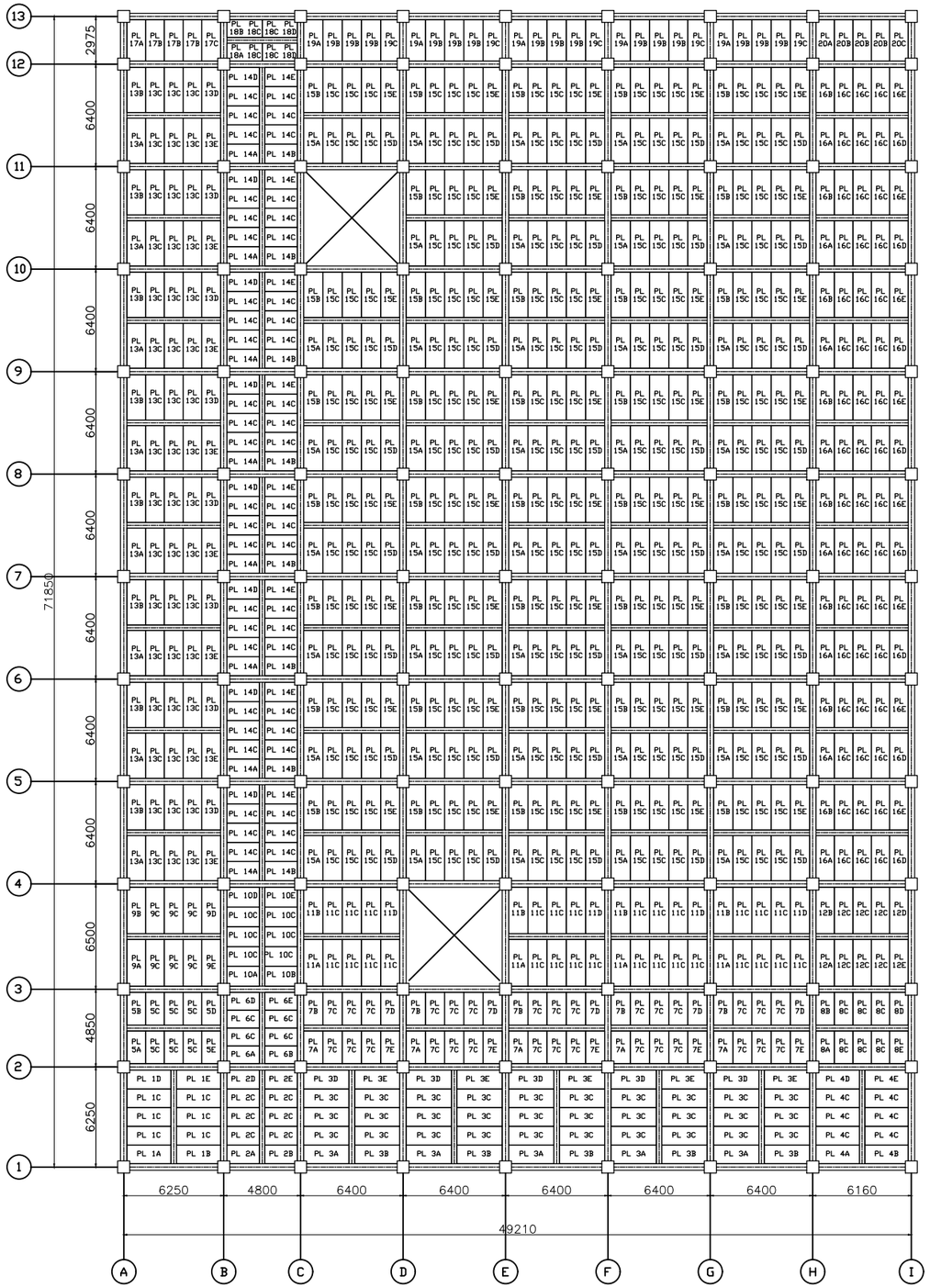
SKALA GAMBAR

1 : 100

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	15	



DENAH PELAT LT 1 - 2
SKALA 1:100

PROGRAM STUDI TEKNIK SIPIL
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UNIVERSITAS MUHAMMADIYAH GRESIK

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NIM : 210607019

JUDUL GAMBAR

DENAH RENCANA PLAT LT. 1 - 2

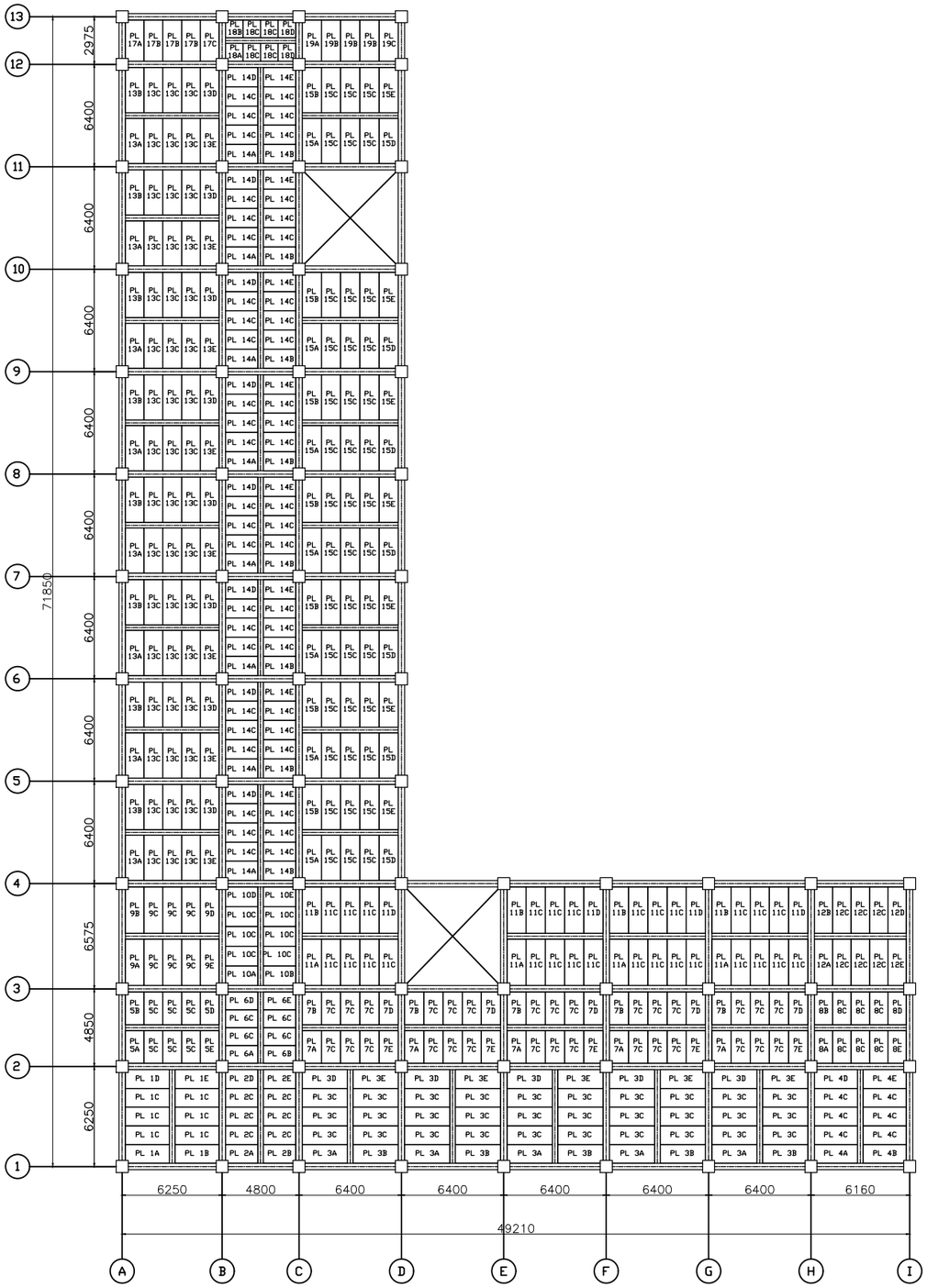
SKALA GAMBAR

1 : 100

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	16	



DENAH PELAT LT 3 - 12
SKALA 1:100

PROGRAM STUDI TEKNIK SIPIL
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UNIVERSITAS MUHAMMADIYAH GRESIK

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MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DENAH RENCANA PLAT LT. 3 - 12

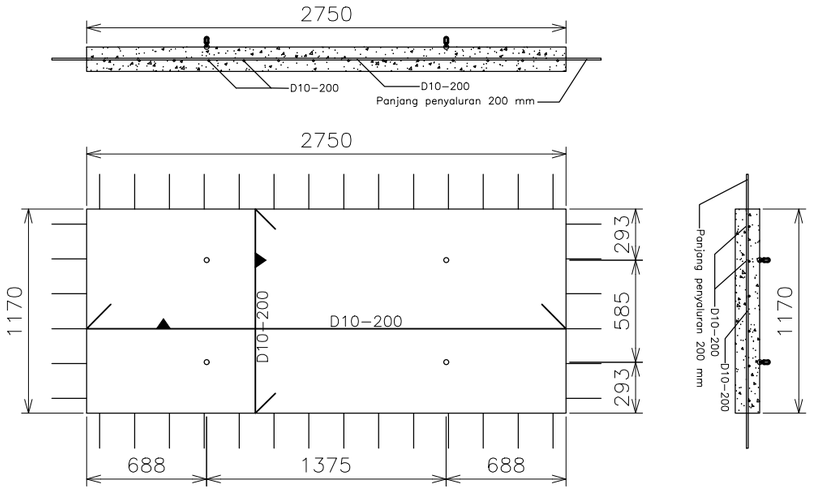
SKALA GAMBAR

1 : 100

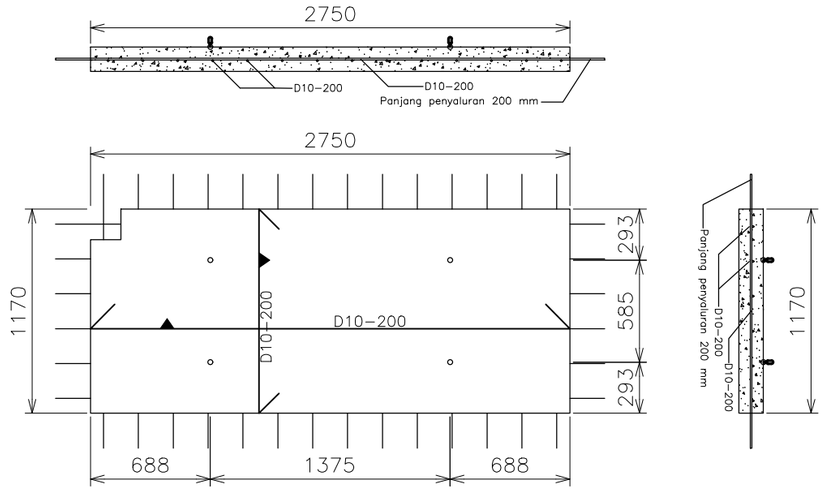
CATATAN

Satuan gambar menggunakan mm

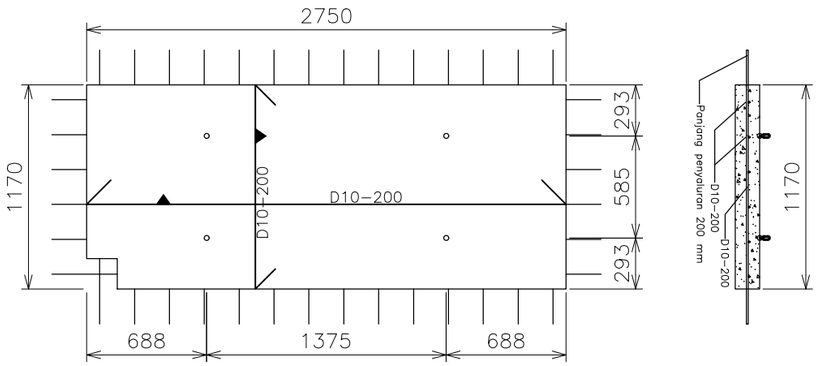
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	17	



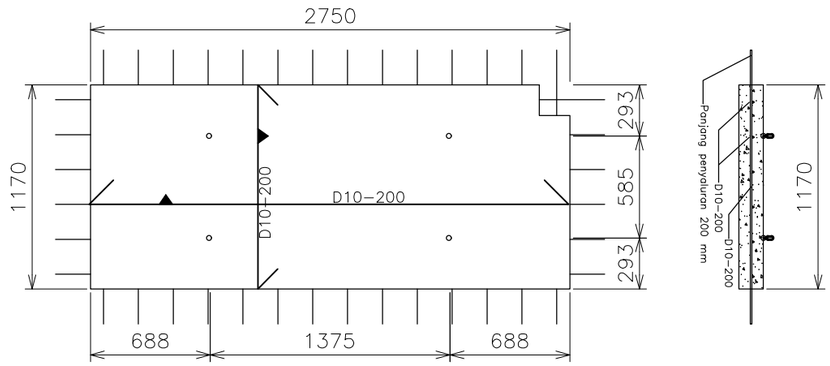
PENULANGAN PELAT PL 1C
SKALA 1:20



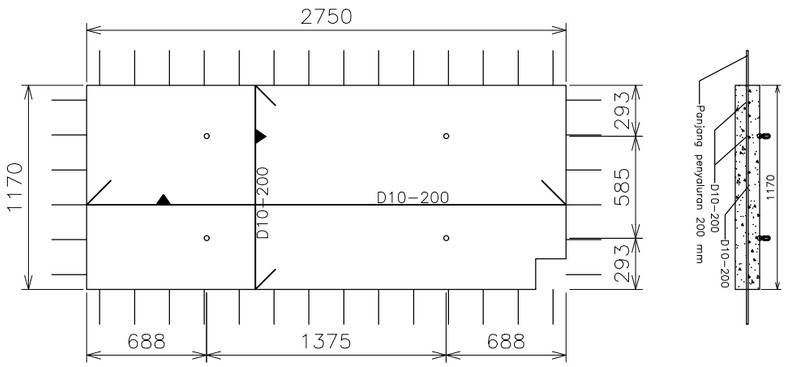
PENULANGAN PELAT PL 1D
SKALA 1:20



PENULANGAN PELAT PL 1A
SKALA 1:20



PENULANGAN PELAT PL 1E
SKALA 1:20



PENULANGAN PELAT PL 1B
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
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MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN PLAT PL 1

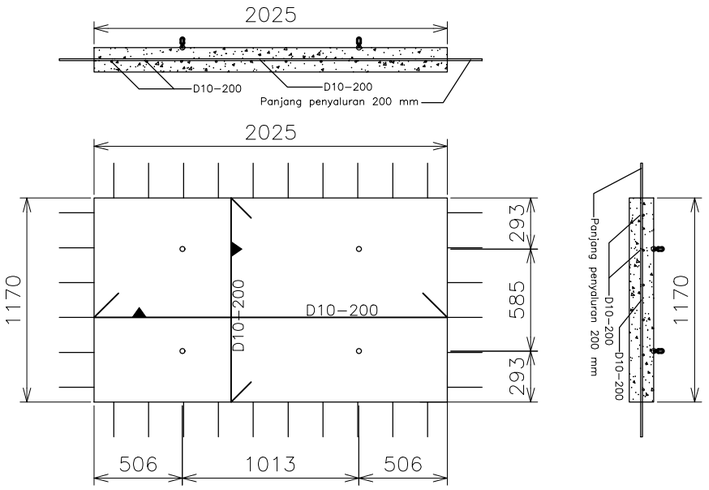
SKALA GAMBAR

1 : 20

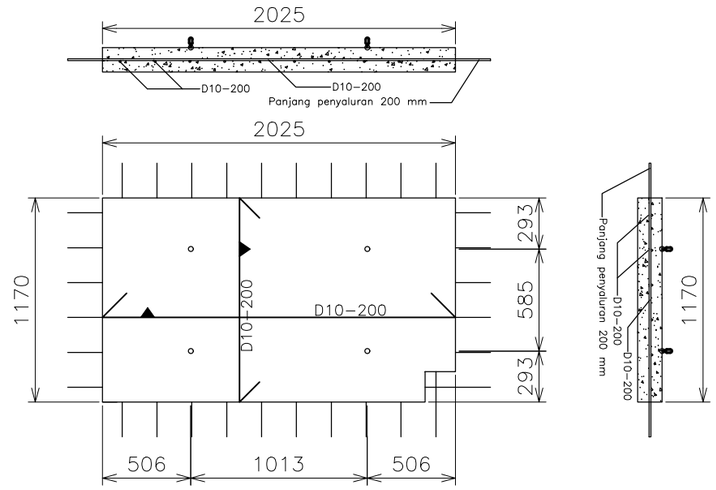
CATATAN

Satuan gambar menggunakan mm

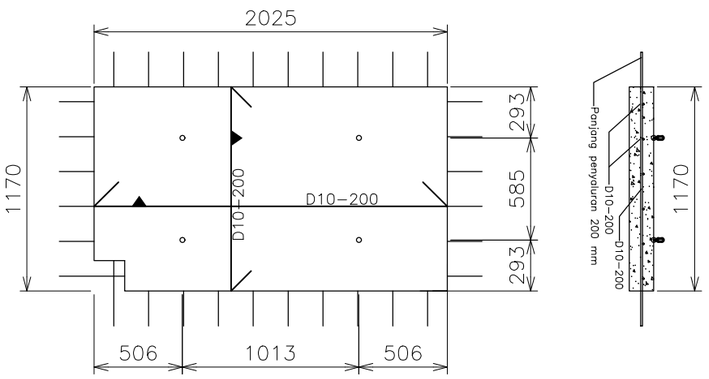
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	18	



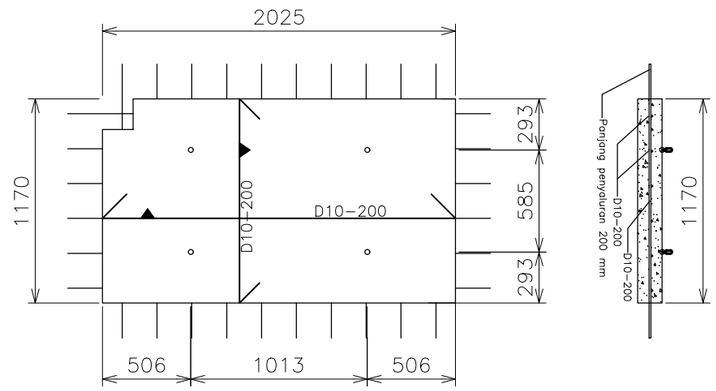
PENULANGAN PELAT PL 2C
SKALA 1:20



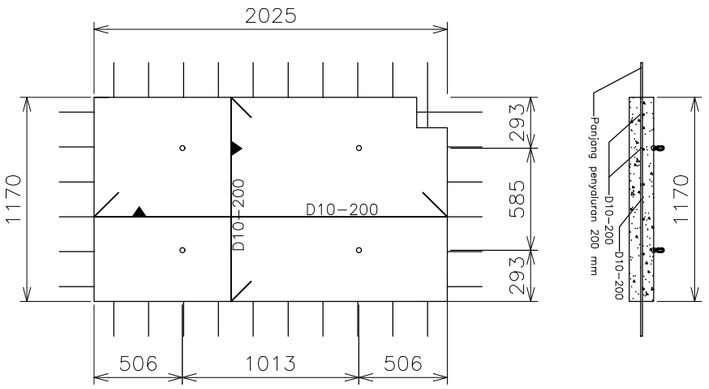
PENULANGAN PELAT PL 2D
SKALA 1:20



PENULANGAN PELAT PL 2A
SKALA 1:20



PENULANGAN PELAT PL 2E
SKALA 1:20



PENULANGAN PELAT PL 2B
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

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DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN PLAT PL 2

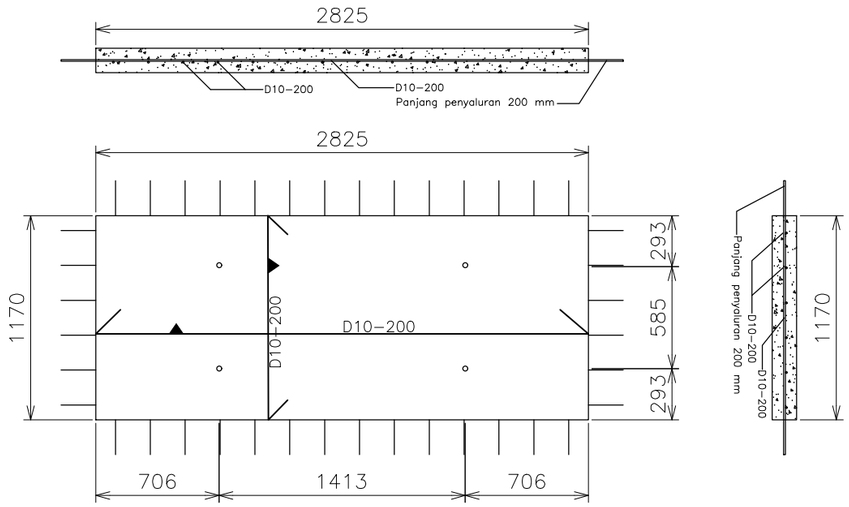
SKALA GAMBAR

1 : 20

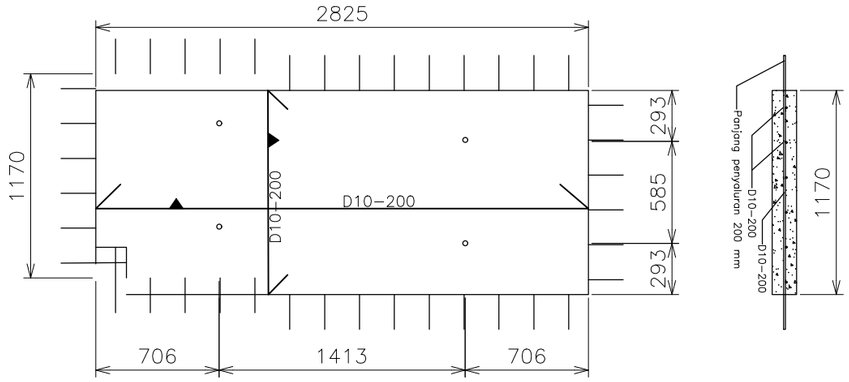
CATATAN

Satuan gambar menggunakan mm

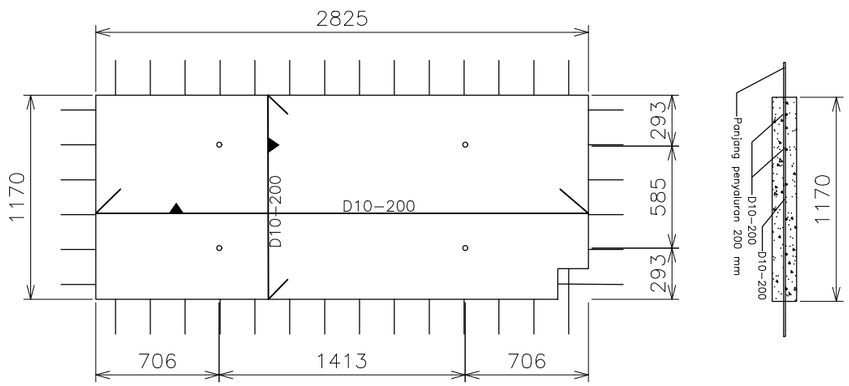
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	19	



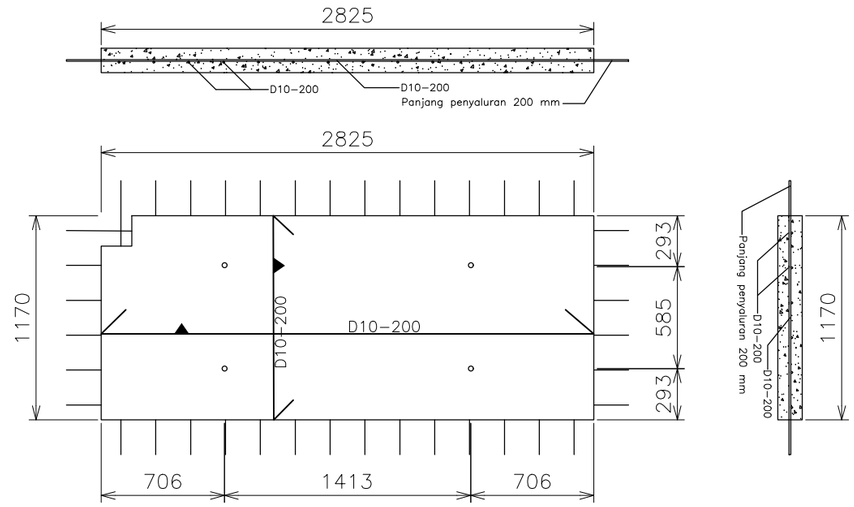
PENULANGAN PELAT PL 3C
SKALA 1:20



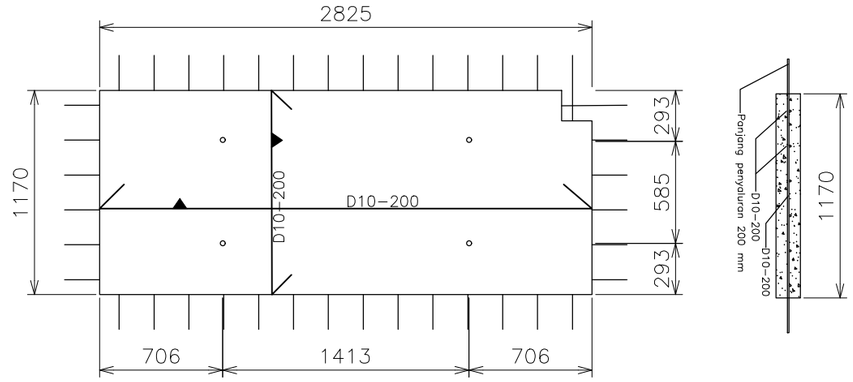
PENULANGAN PELAT PL 3A
SKALA 1:20



PENULANGAN PELAT PL 3B
SKALA 1:20



PENULANGAN PELAT PL 3D
SKALA 1:20



PENULANGAN PELAT PL 3E
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
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DOSEN PEMBIMBING

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MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN PLAT PL 3

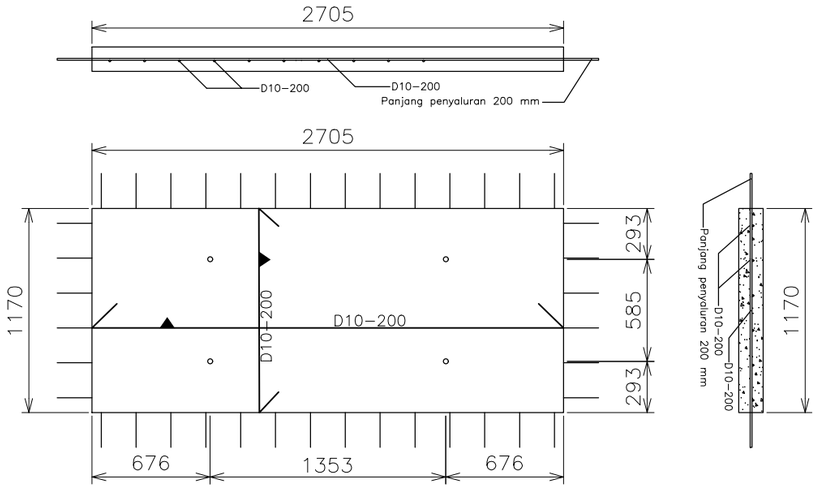
SKALA GAMBAR

1 : 20

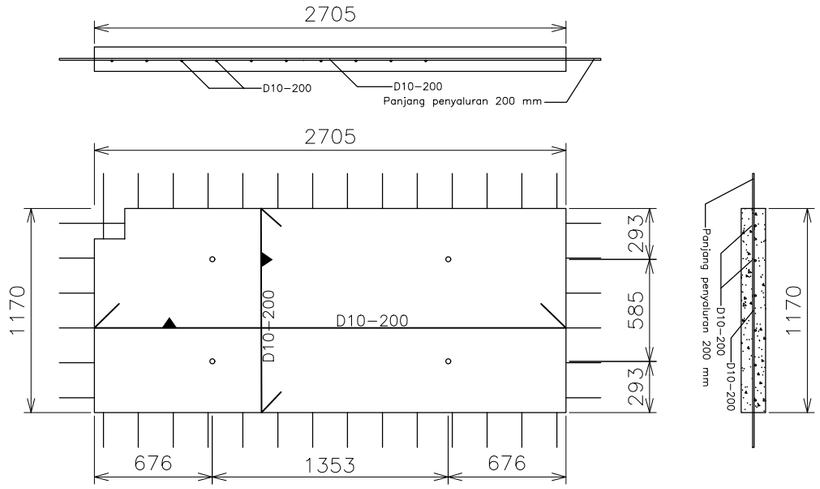
CATATAN

Satuan gambar menggunakan mm

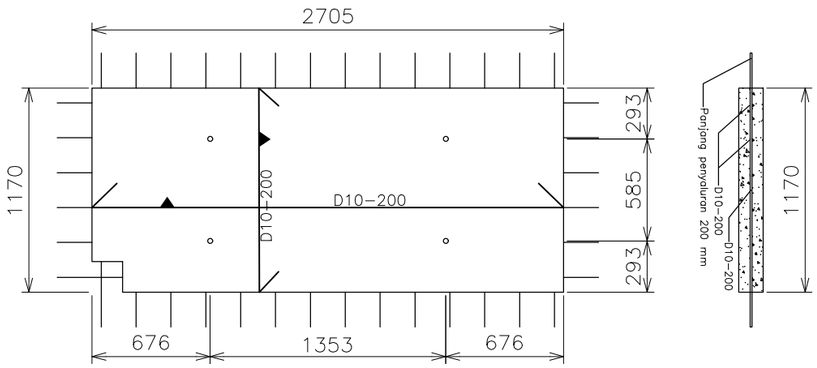
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	20	



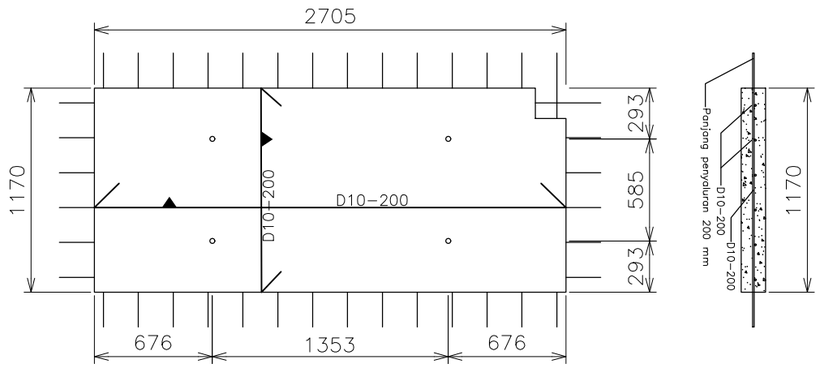
PENULANGAN PELAT PL 4C
SKALA 1:20



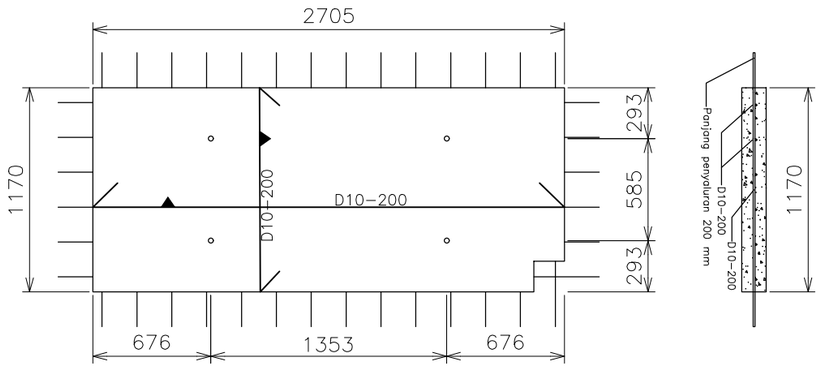
PENULANGAN PELAT PL 4D
SKALA 1:20



PENULANGAN PELAT PL 4A
SKALA 1:20



PENULANGAN PELAT PL 4E
SKALA 1:20



PENULANGAN PELAT PL 4B
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

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DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN PLAT PL 4

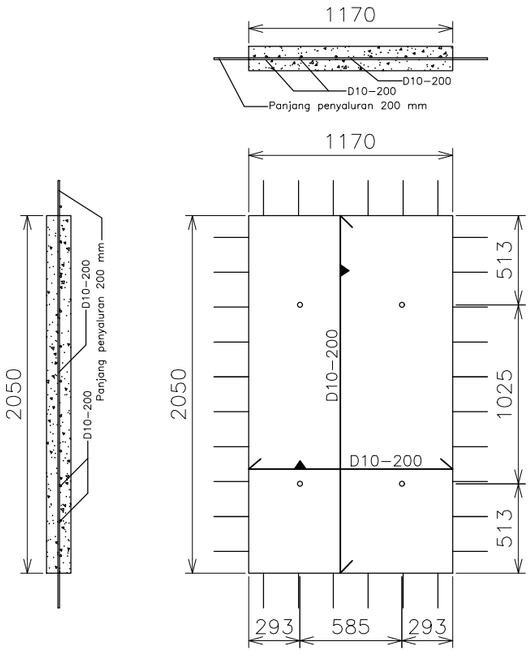
SKALA GAMBAR

1 : 20

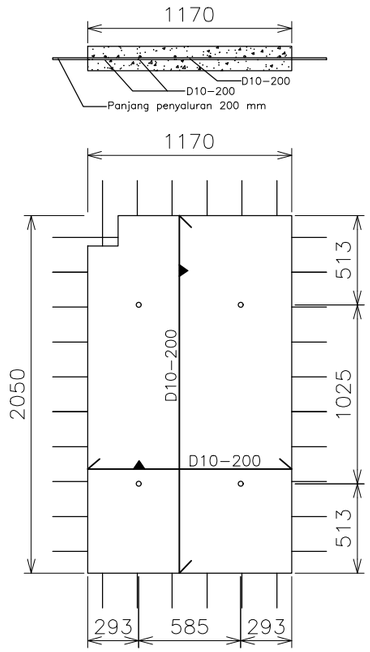
CATATAN

Satuan gambar menggunakan mm

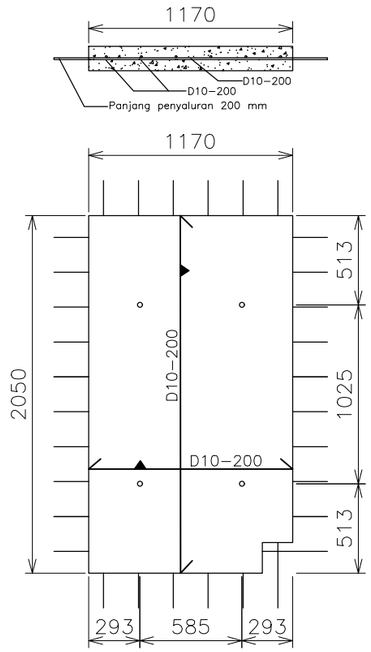
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	21	



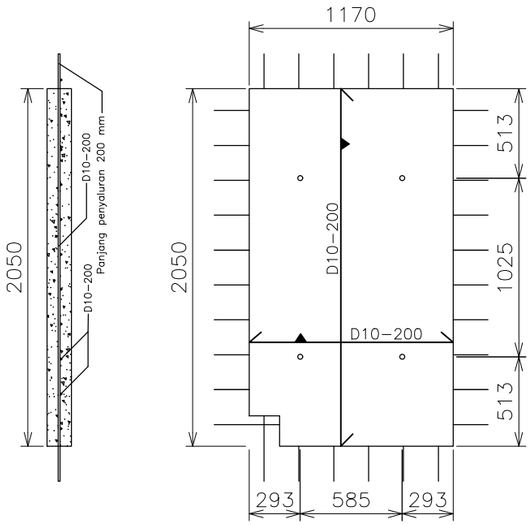
PENULANGAN PELAT PL 5C
SKALA 1:20



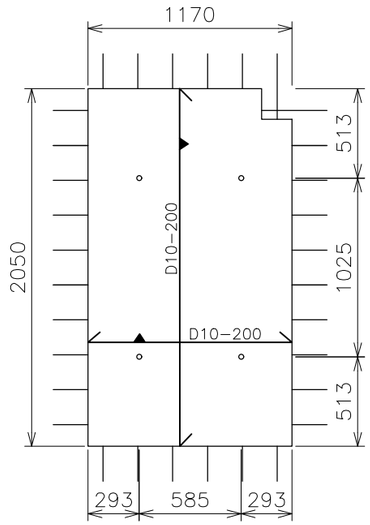
PENULANGAN PELAT PL 5B
SKALA 1:20



PENULANGAN PELAT PL 5A
SKALA 1:20



PENULANGAN PELAT PL 5E
SKALA 1:20



PENULANGAN PELAT PL 5D
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

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DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN PLAT PL 5

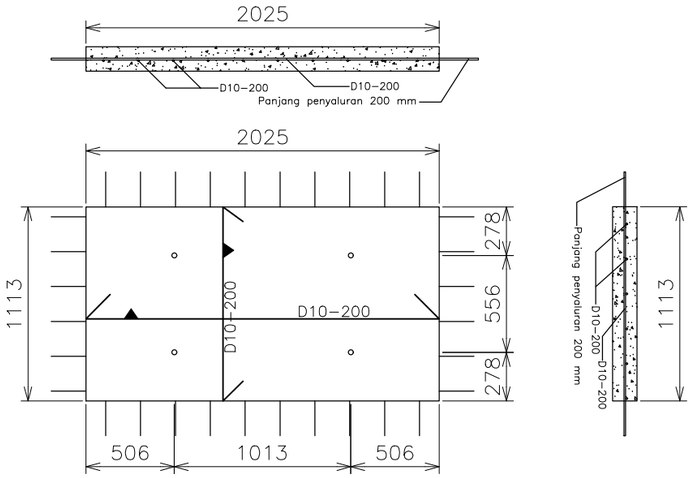
SKALA GAMBAR

1 : 20

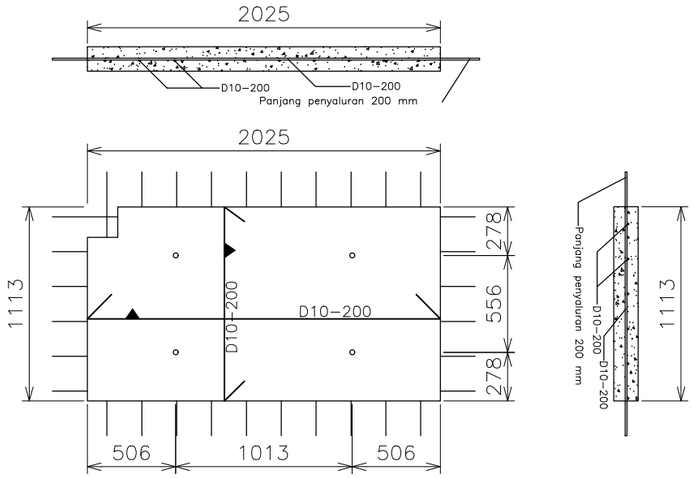
CATATAN

Satuan gambar menggunakan mm

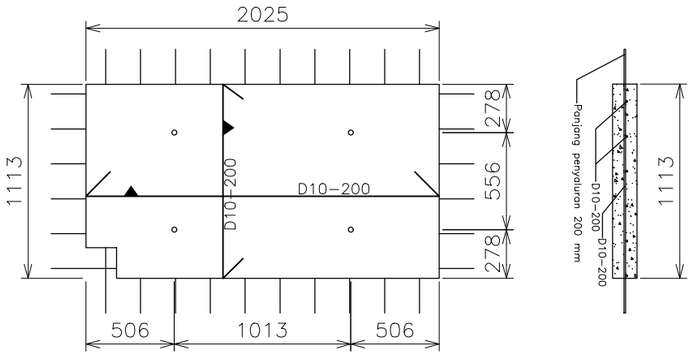
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	22	



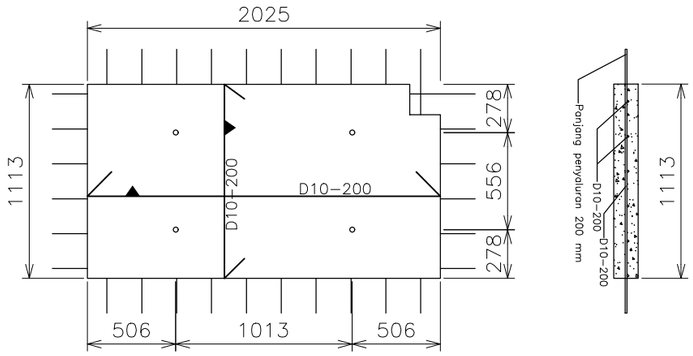
PENULANGAN PELAT PL 6C
SKALA 1:20



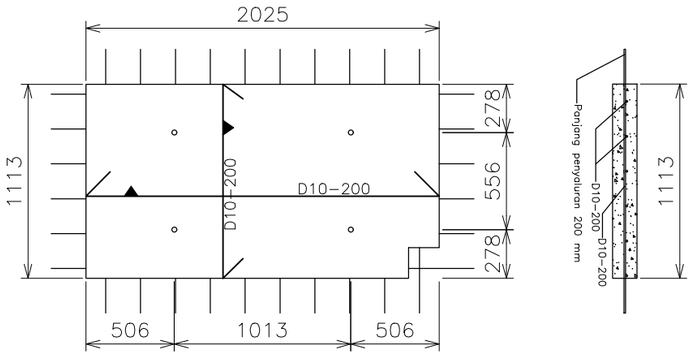
PENULANGAN PELAT PL 6D
SKALA 1:20



PENULANGAN PELAT PL 6A
SKALA 1:20



PENULANGAN PELAT PL 6E
SKALA 1:20



PENULANGAN PELAT PL 6B
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

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DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN PLAT PL 6

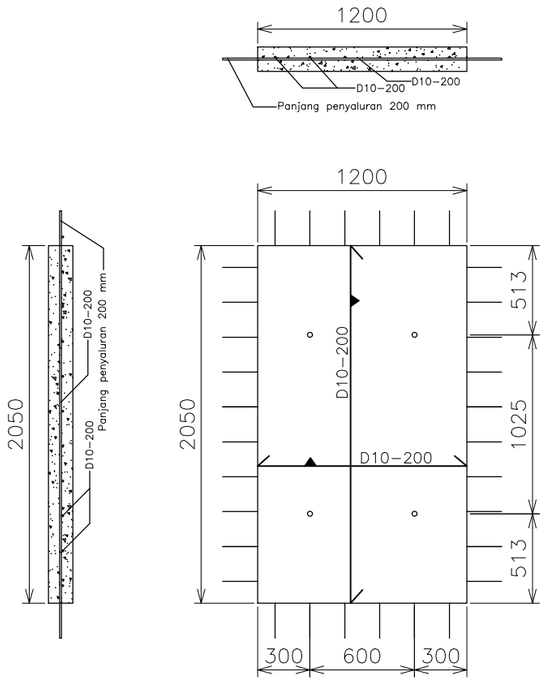
SKALA GAMBAR

1 : 20

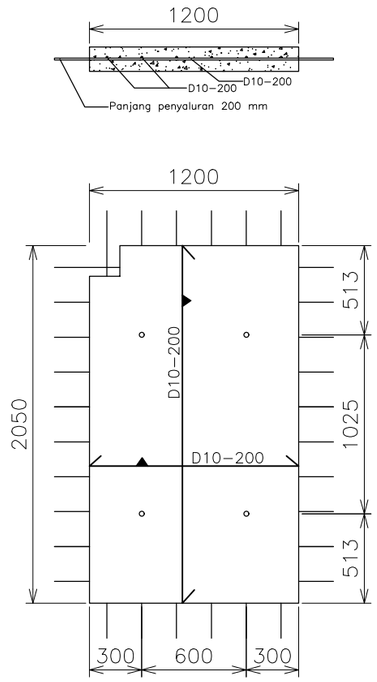
CATATAN

Satuan gambar menggunakan mm

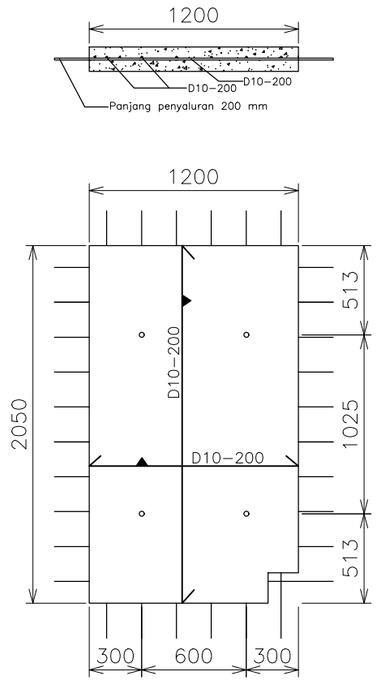
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	23	



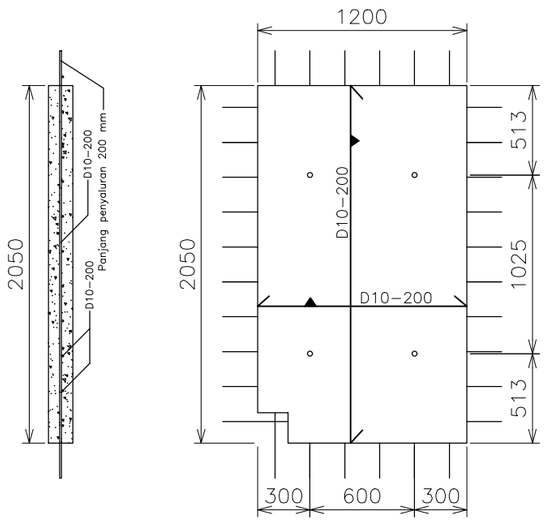
PENULANGAN PELAT PL 7C
SKALA 1:20



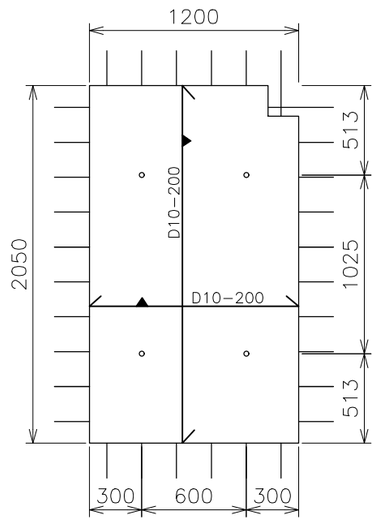
PENULANGAN PELAT PL 7B
SKALA 1:20



PENULANGAN PELAT PL 7E
SKALA 1:20



PENULANGAN PELAT PL 7A
SKALA 1:20



PENULANGAN PELAT PL 7D
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN PLAT PL 7

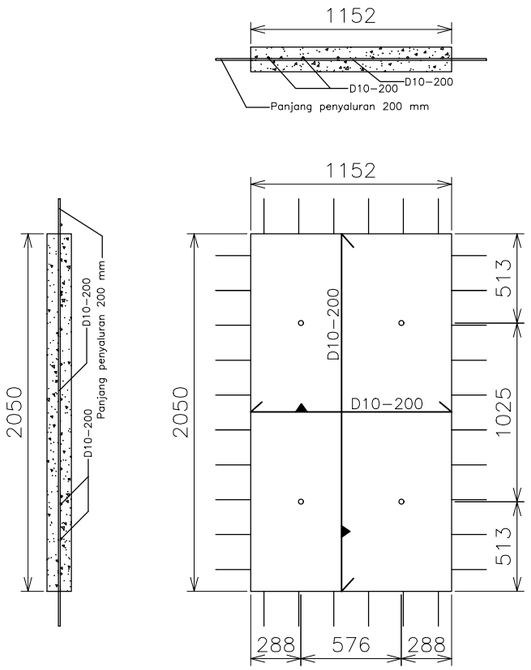
SKALA GAMBAR

1 : 20

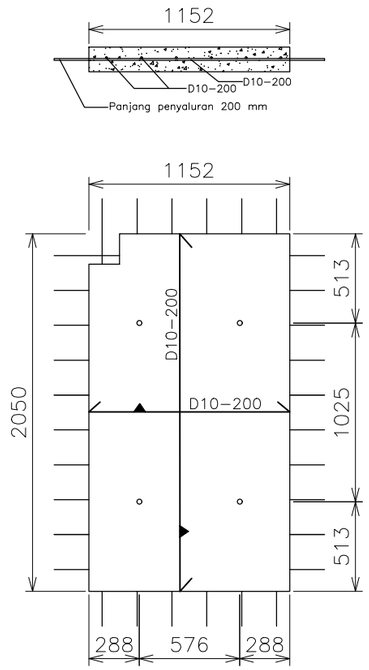
CATATAN

Satuan gambar menggunakan mm

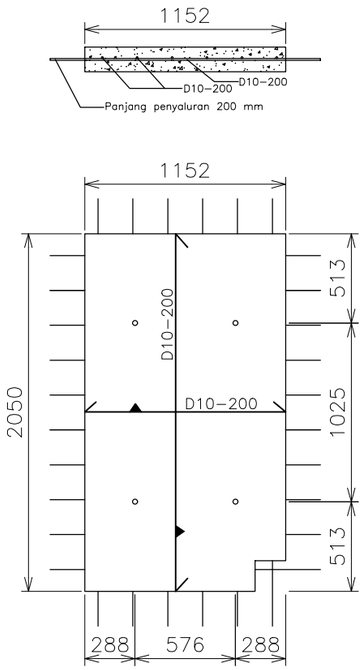
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	24	



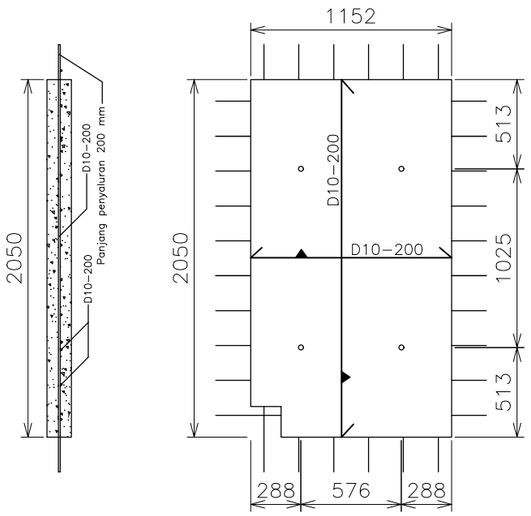
PENULANGAN PELAT PL 8C
SKALA 1:20



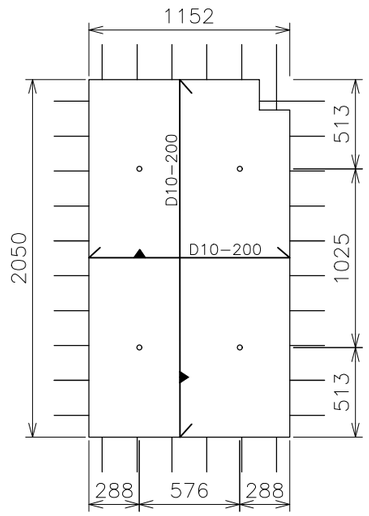
PENULANGAN PELAT PL 8B
SKALA 1:20



PENULANGAN PELAT PL 8E
SKALA 1:20



PENULANGAN PELAT PL 8A
SKALA 1:20



PENULANGAN PELAT PL 8D
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
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JUDUL TUGAS AKHIR

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DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN PLAT PL 8

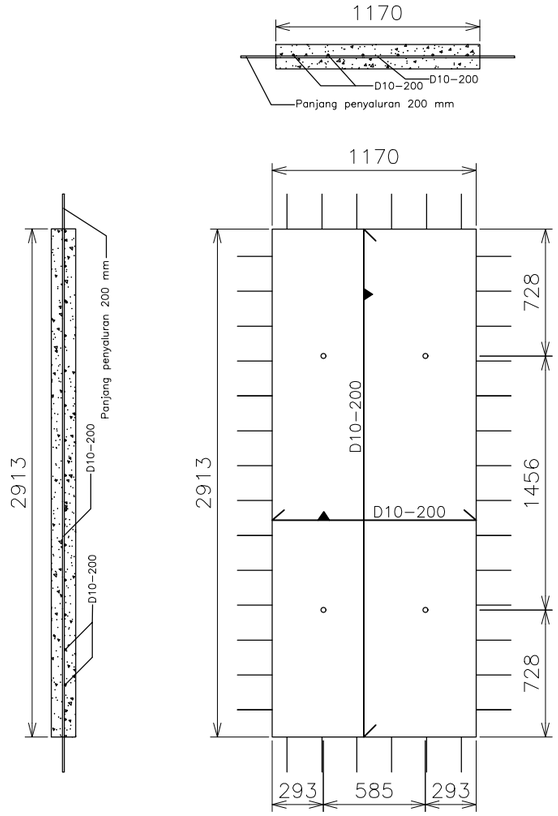
SKALA GAMBAR

1 : 20

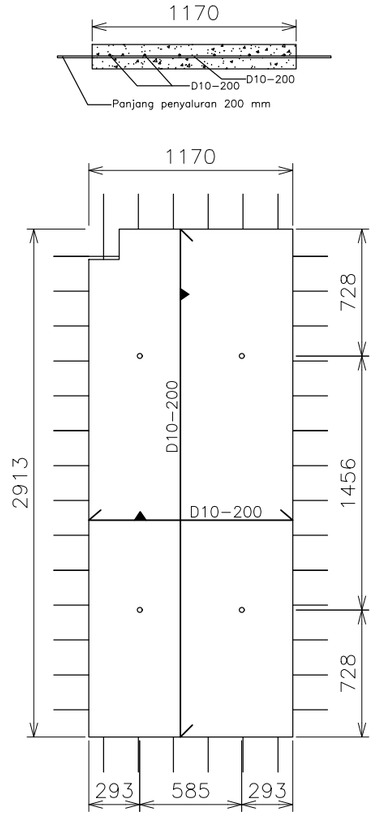
CATATAN

Satuan gambar menggunakan mm

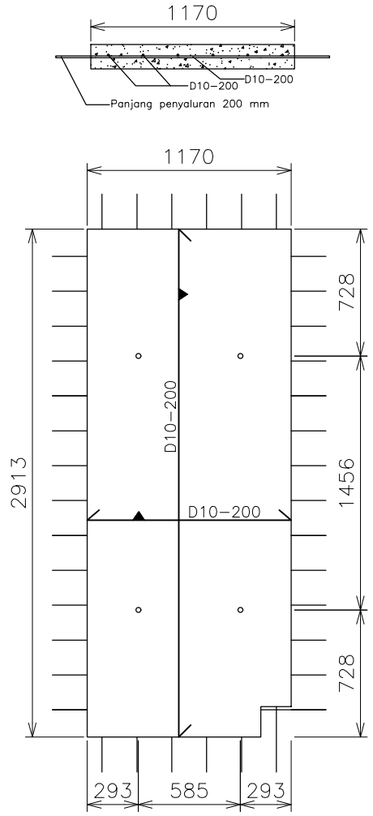
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	25	



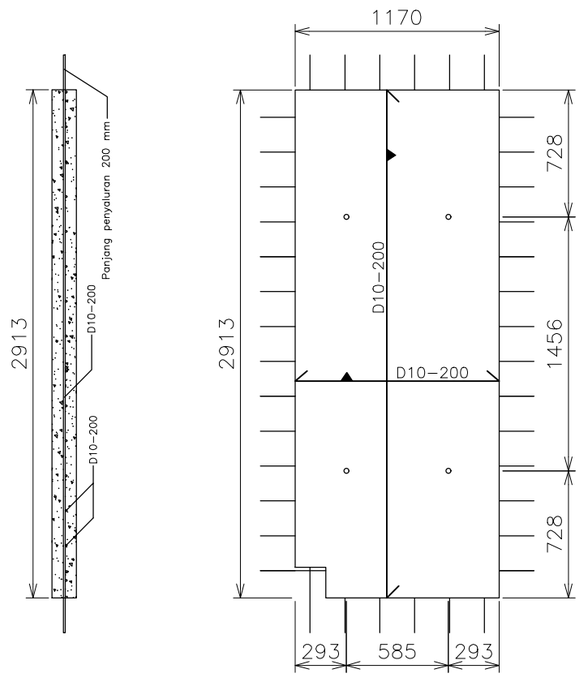
PENULANGAN PELAT PL 9C
SKALA 1:20



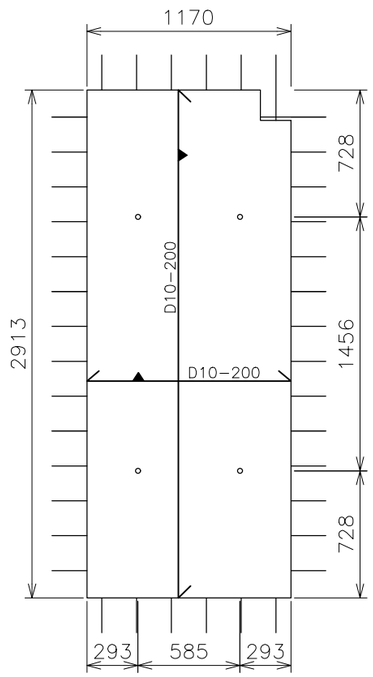
PENULANGAN PELAT PL 9B
SKALA 1:20



PENULANGAN PELAT PL 9E
SKALA 1:20



PENULANGAN PELAT PL 9A
SKALA 1:20



PENULANGAN PELAT PL 9D
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
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DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN PLAT PL 9

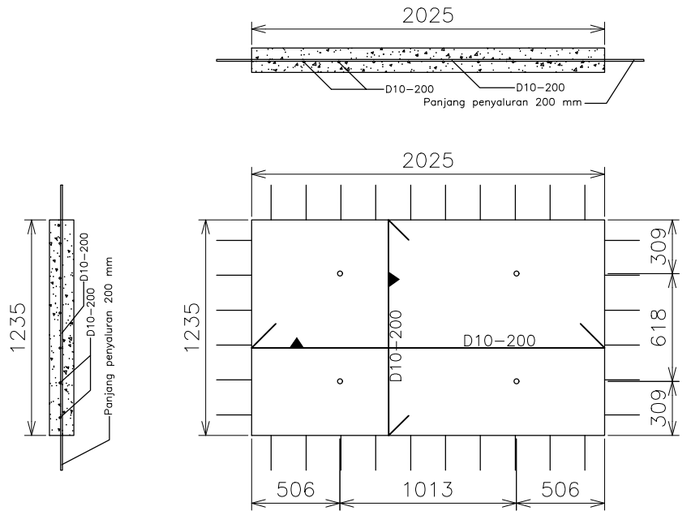
SKALA GAMBAR

1 : 20

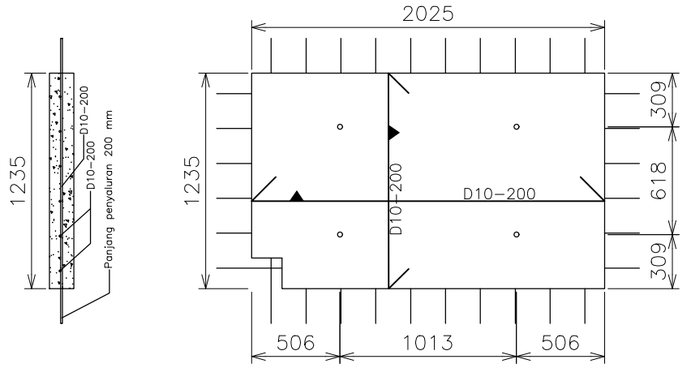
CATATAN

Satuan gambar menggunakan mm

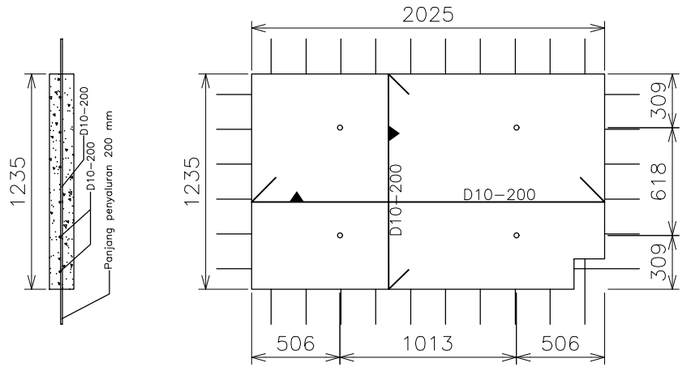
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	26	



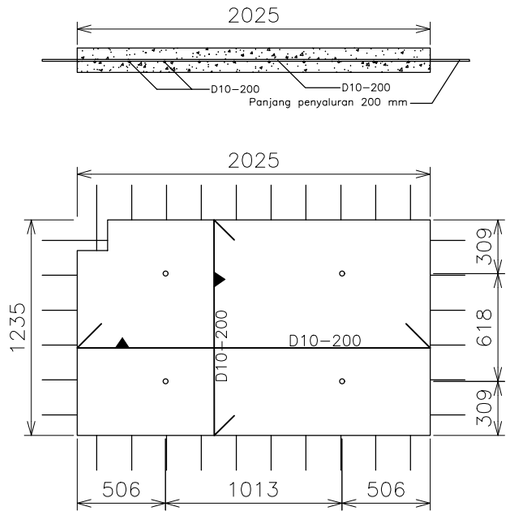
PENULANGAN PELAT PL 10C
SKALA 1:20



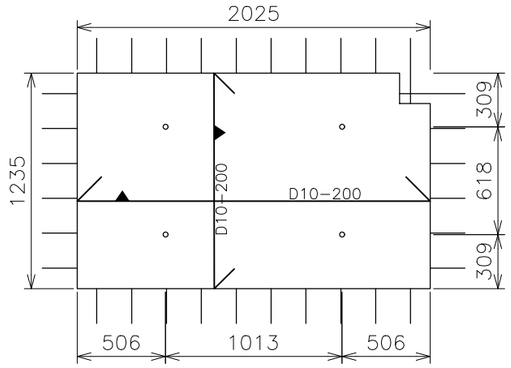
PENULANGAN PELAT PL 10A
SKALA 1:20



PENULANGAN PELAT PL 10B
SKALA 1:20



PENULANGAN PELAT PL 10D
SKALA 1:20



PENULANGAN PELAT PL 10E
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
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DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN PLAT PL 10

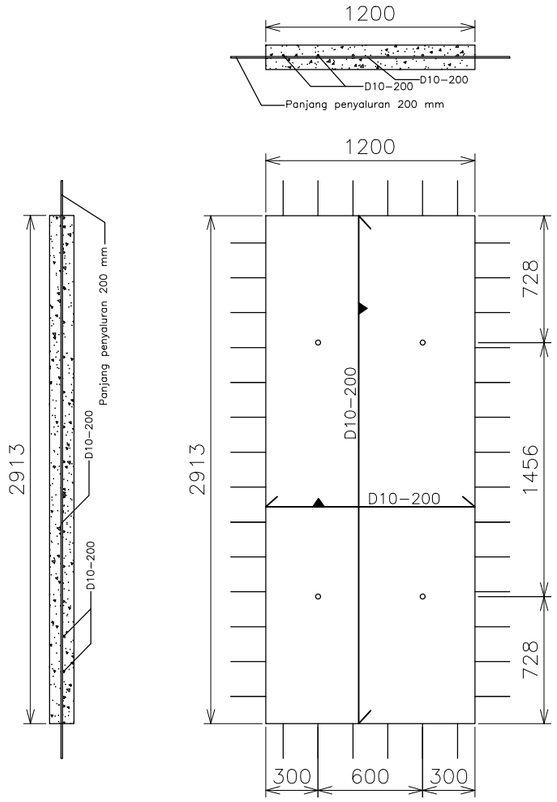
SKALA GAMBAR

1 : 20

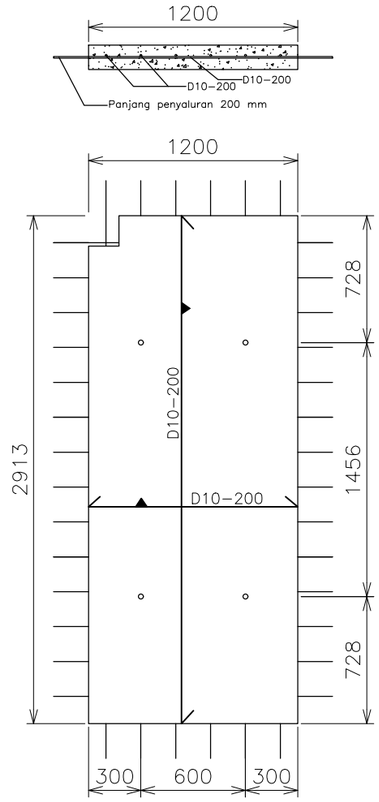
CATATAN

Satuan gambar menggunakan mm

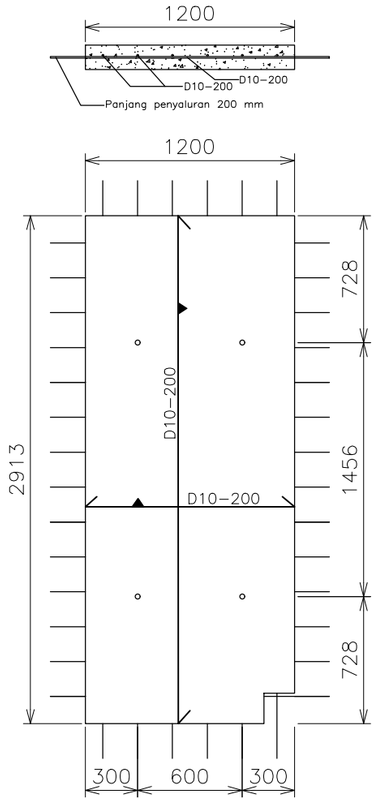
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	27	



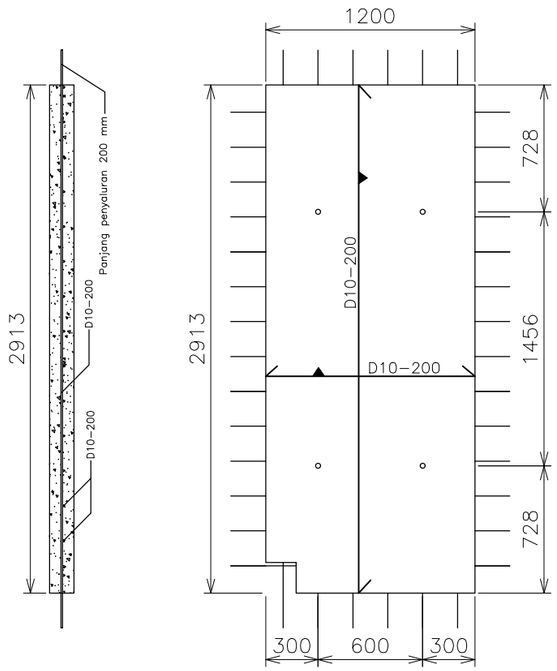
PENULANGAN PELAT PL 11C
SKALA 1:20



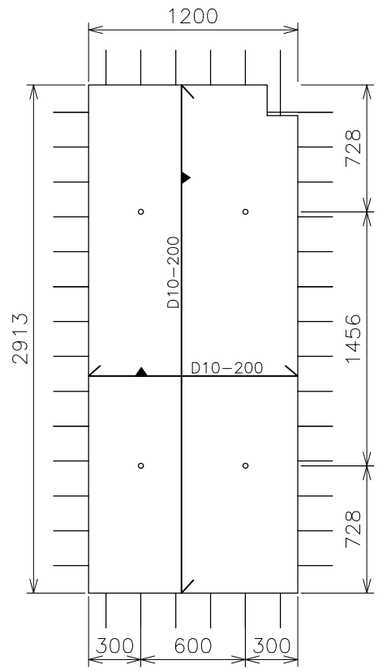
PENULANGAN PELAT PL 11B
SKALA 1:20



PENULANGAN PELAT PL 11E
SKALA 1:20



PENULANGAN PELAT PL 11A
SKALA 1:20



PENULANGAN PELAT PL 11D
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
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DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN PLAT PL 11

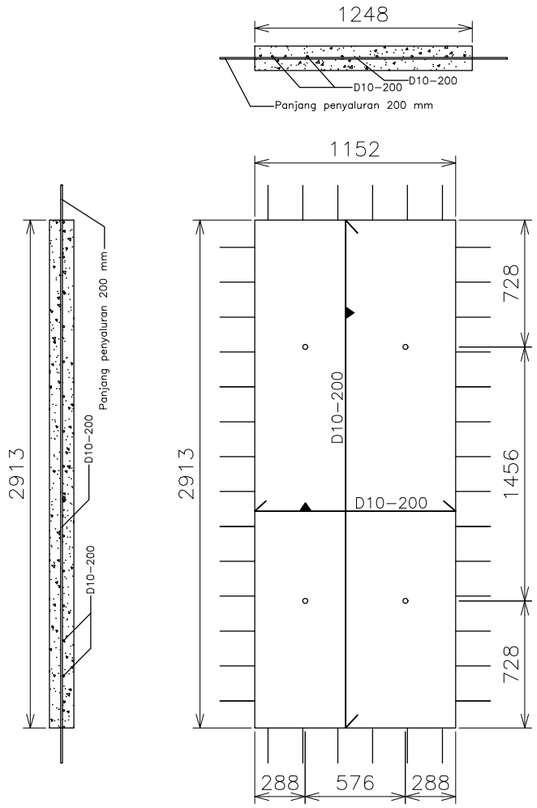
SKALA GAMBAR

1 : 20

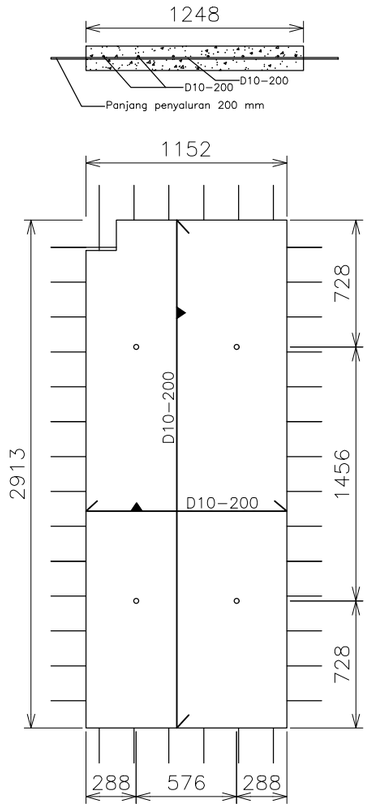
CATATAN

Satuan gambar menggunakan mm

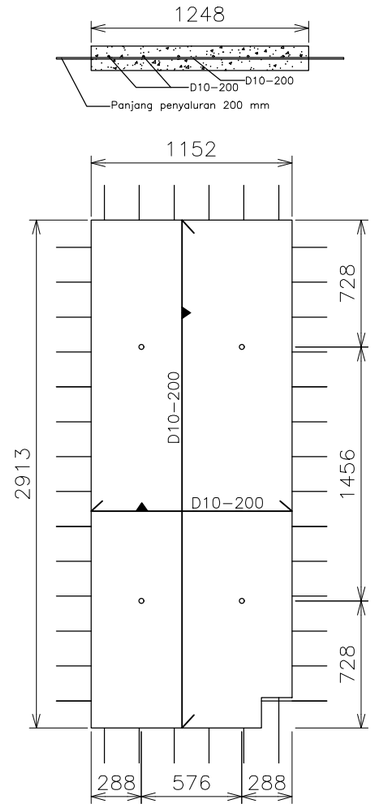
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	28	



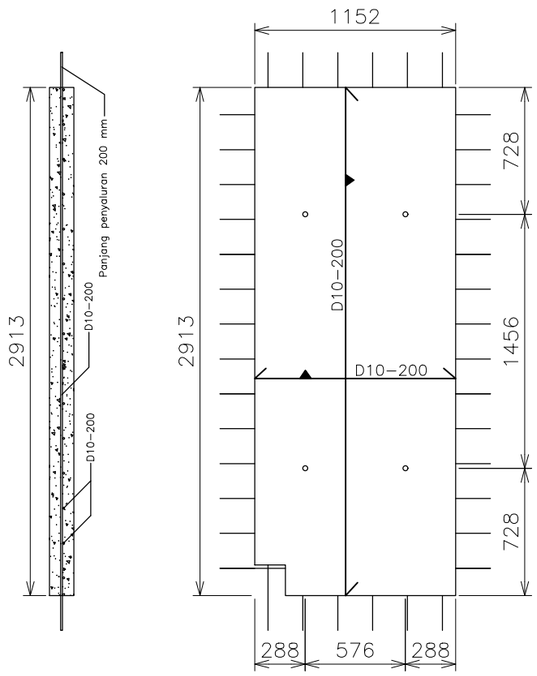
PENULANGAN PELAT PL 12C
SKALA 1:20



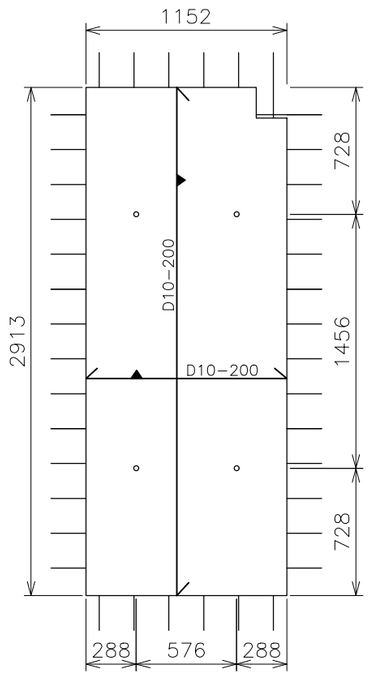
PENULANGAN PELAT PL 12B
SKALA 1:20



PENULANGAN PELAT PL 12E
SKALA 1:20



PENULANGAN PELAT PL 12A
SKALA 1:20



PENULANGAN PELAT PL 12D
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

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DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN PLAT PL 12

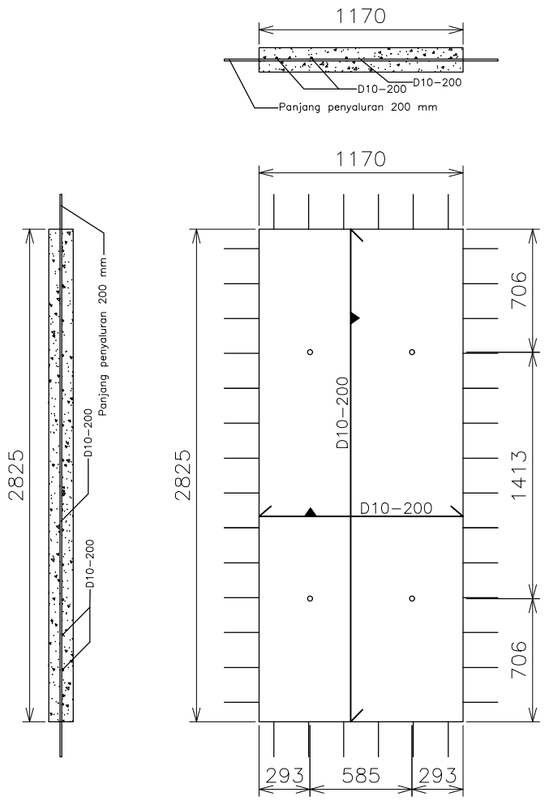
SKALA GAMBAR

1 : 20

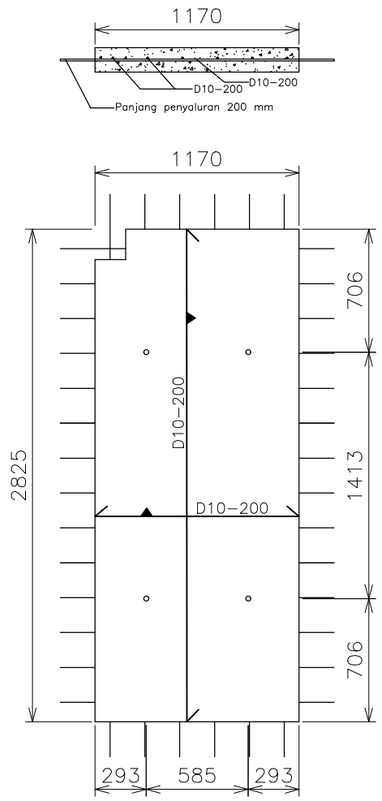
CATATAN

Satuan gambar menggunakan mm

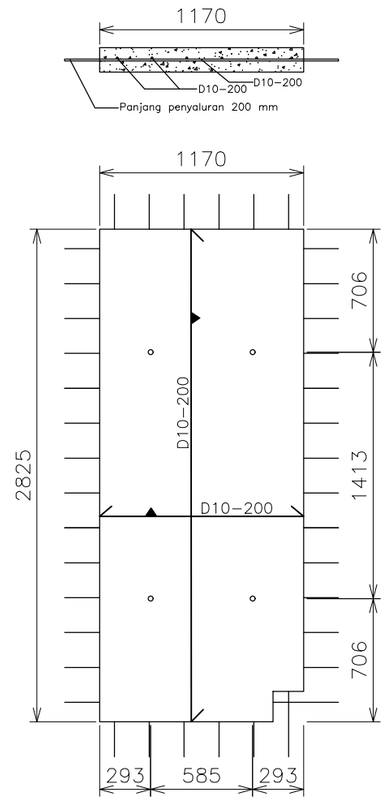
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	29	



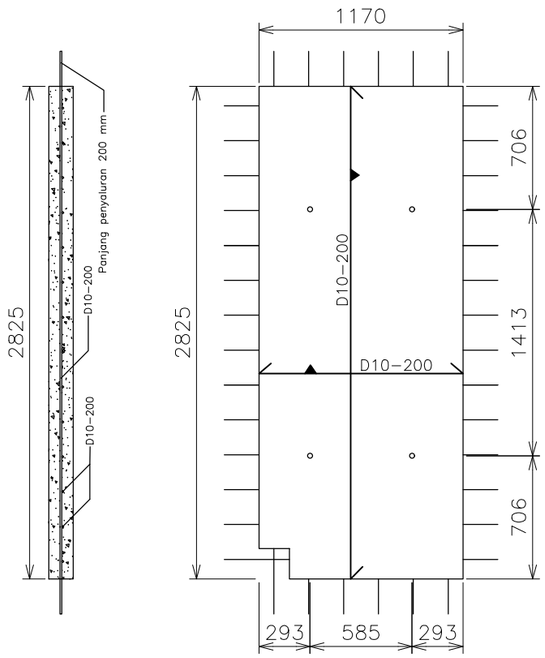
PENULANGAN PELAT PL 13C
SKALA 1:20



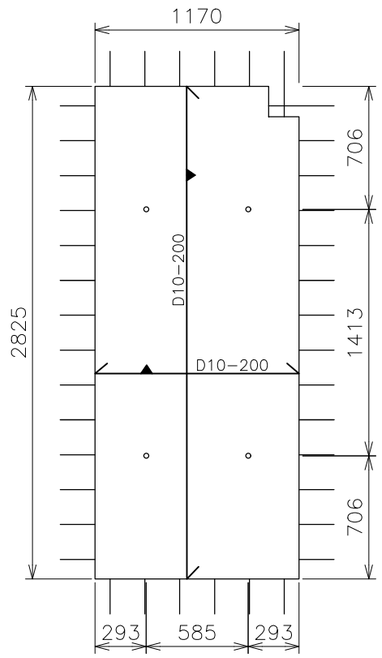
PENULANGAN PELAT PL 13B
SKALA 1:20



PENULANGAN PELAT PL 13E
SKALA 1:20



PENULANGAN PELAT PL 13A
SKALA 1:20



PENULANGAN PELAT PL 13D
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

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DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN PLAT PL 13

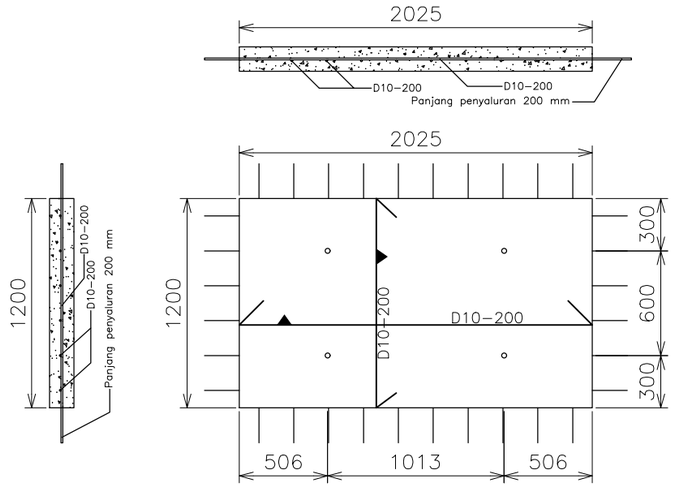
SKALA GAMBAR

1 : 20

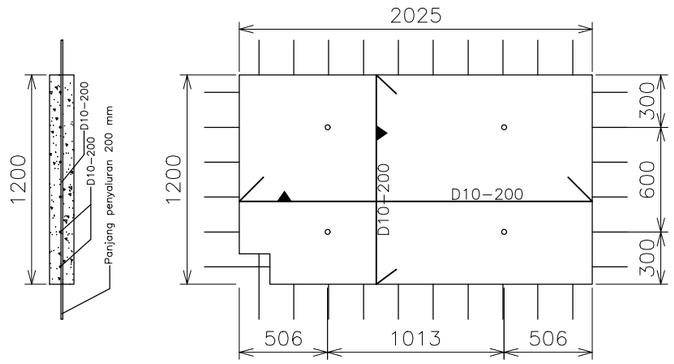
CATATAN

Satuan gambar menggunakan mm

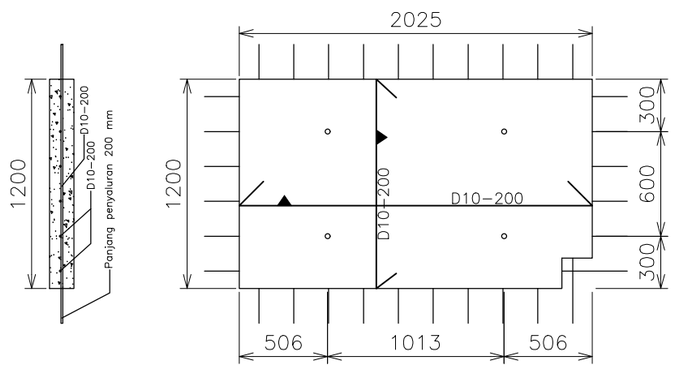
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	30	



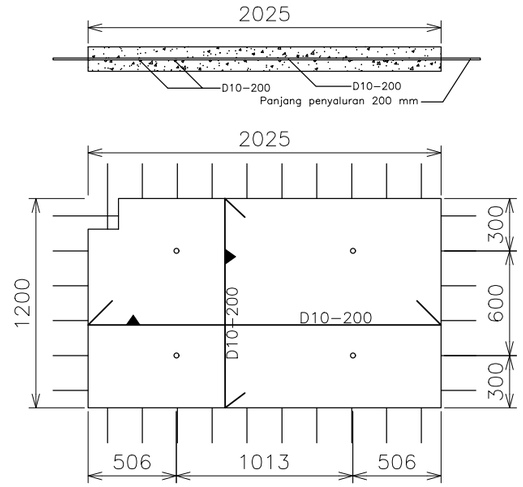
PENULANGAN PELAT PL 14C
SKALA 1:20



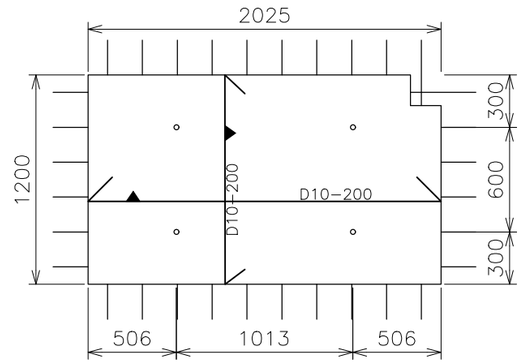
PENULANGAN PELAT PL 14A
SKALA 1:20



PENULANGAN PELAT PL 14B
SKALA 1:20



PENULANGAN PELAT PL 14D
SKALA 1:20



PENULANGAN PELAT PL 14E
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

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DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN PLAT PL 14

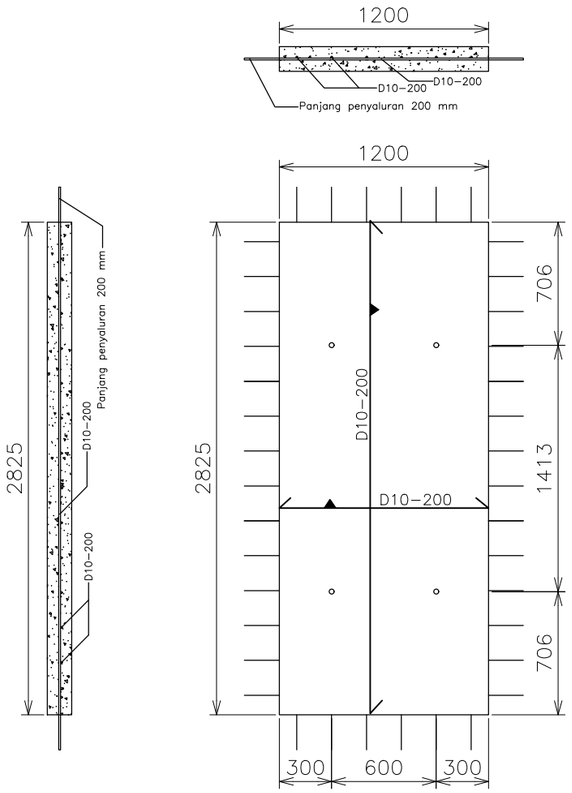
SKALA GAMBAR

1 : 20

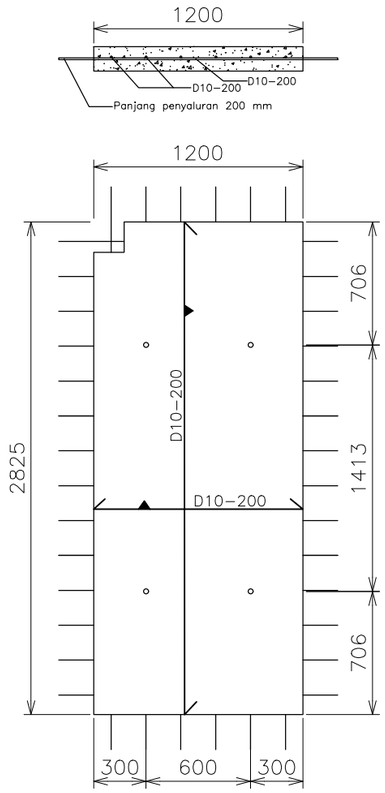
CATATAN

Satuan gambar menggunakan mm

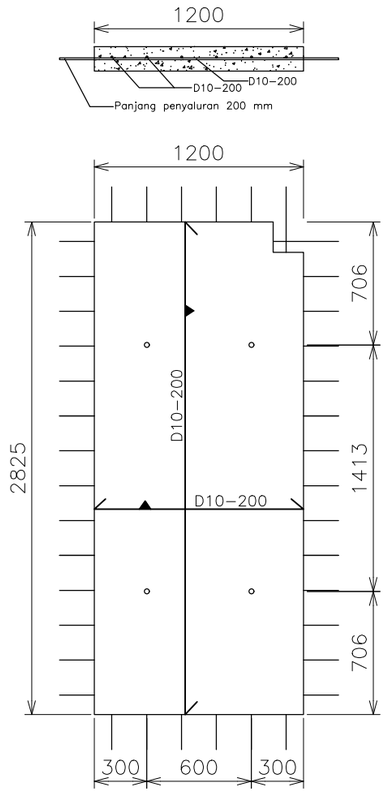
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	31	



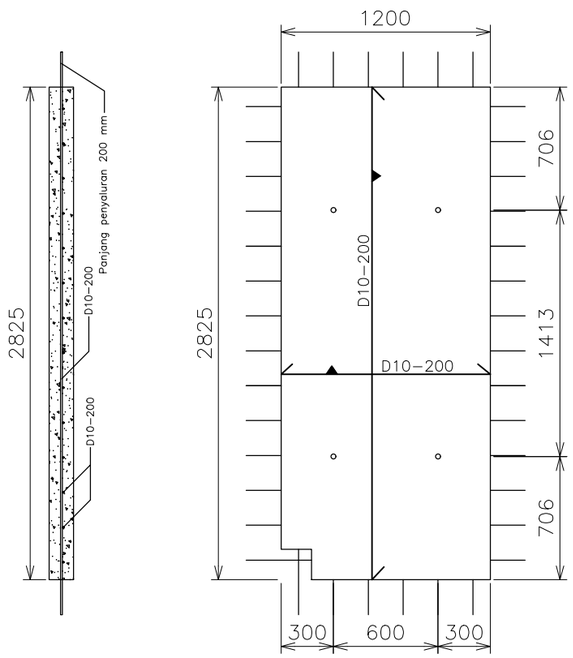
PENULANGAN PELAT PL 15C
SKALA 1:20



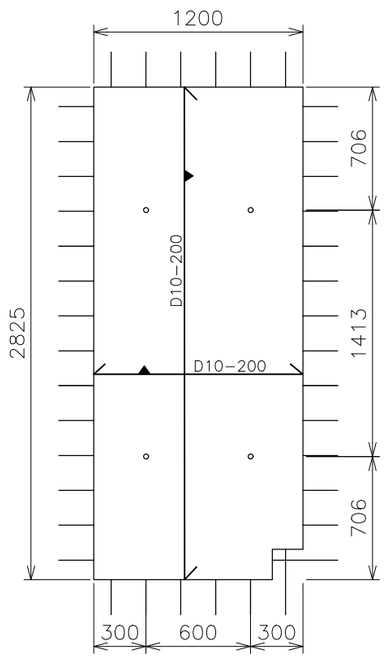
PENULANGAN PELAT PL 15B
SKALA 1:20



PENULANGAN PELAT PL 15E
SKALA 1:20



PENULANGAN PELAT PL 15A
SKALA 1:20



PENULANGAN PELAT PL 15D
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

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DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN PLAT PL 15

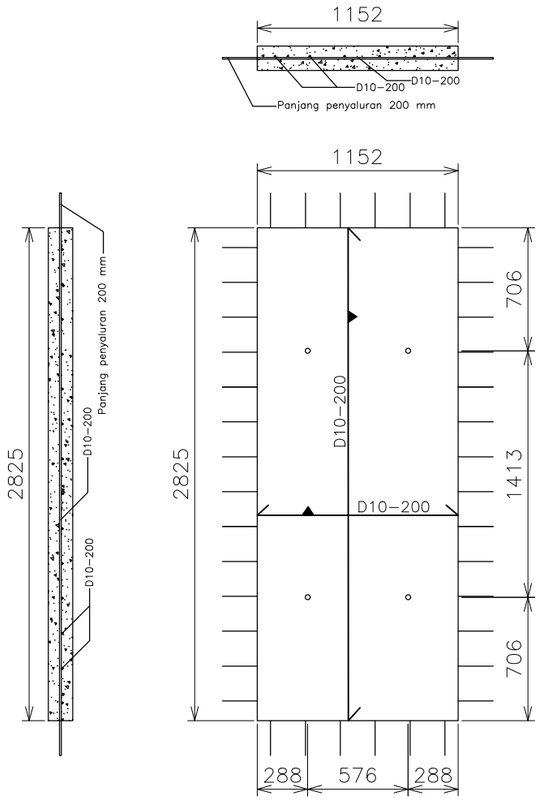
SKALA GAMBAR

1 : 20

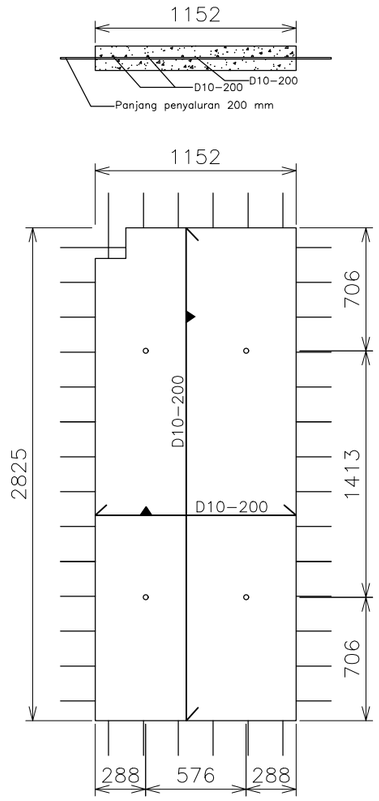
CATATAN

Satuan gambar menggunakan mm

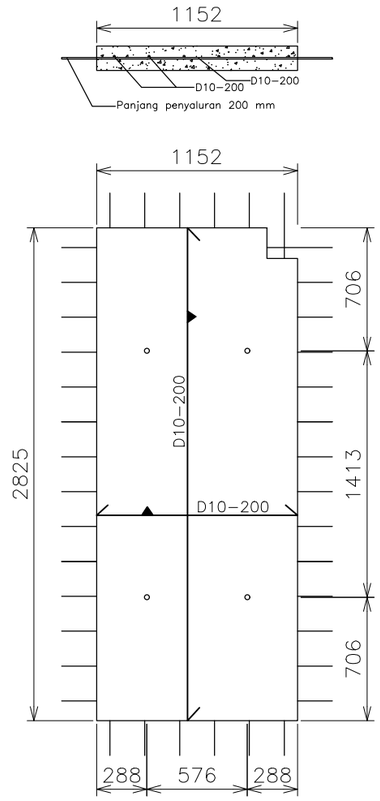
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	32	



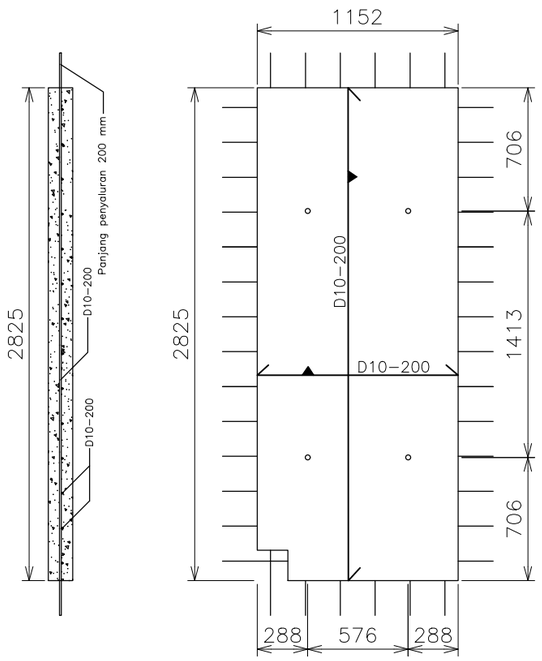
PENULANGAN PELAT PL 16C
SKALA 1:20



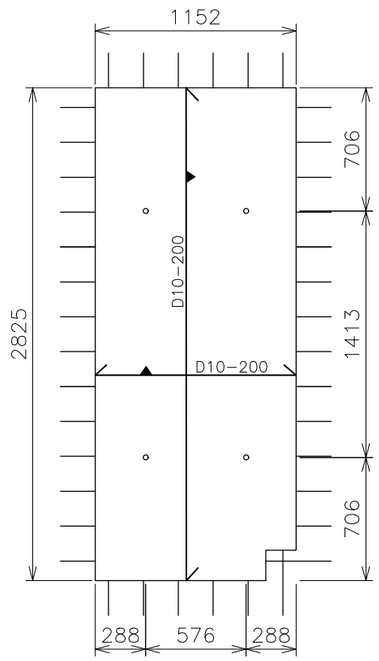
PENULANGAN PELAT PL 16B
SKALA 1:20



PENULANGAN PELAT PL 16E
SKALA 1:20



PENULANGAN PELAT PL 16A
SKALA 1:20



PENULANGAN PELAT PL 16D
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN PLAT PL 16

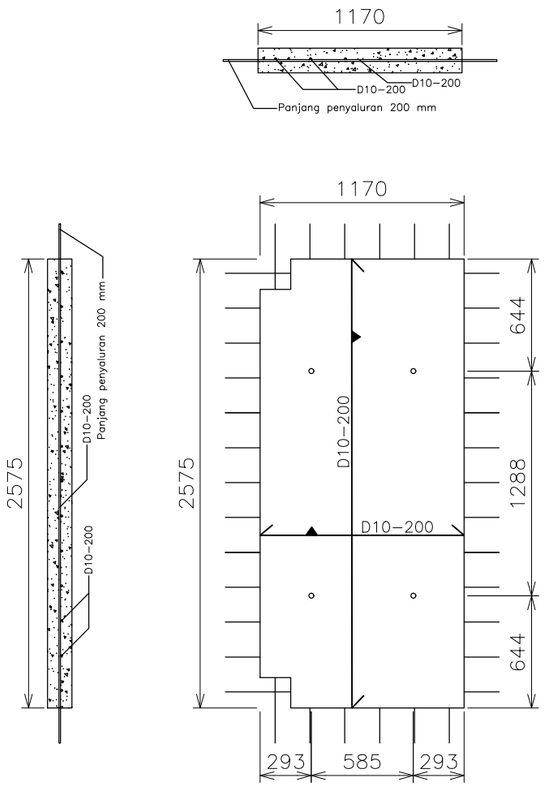
SKALA GAMBAR

1 : 20

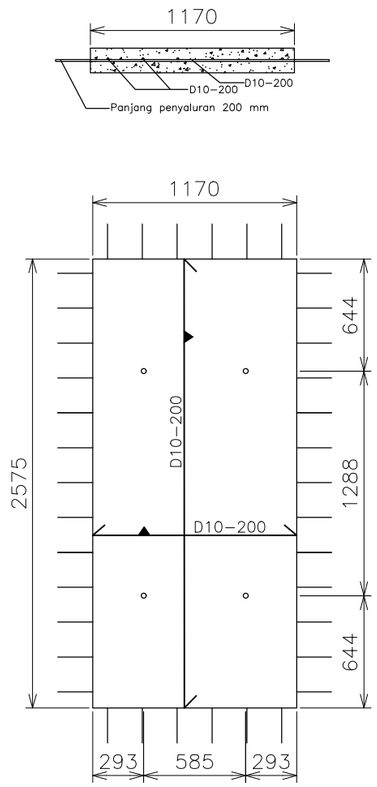
CATATAN

Satuan gambar menggunakan mm

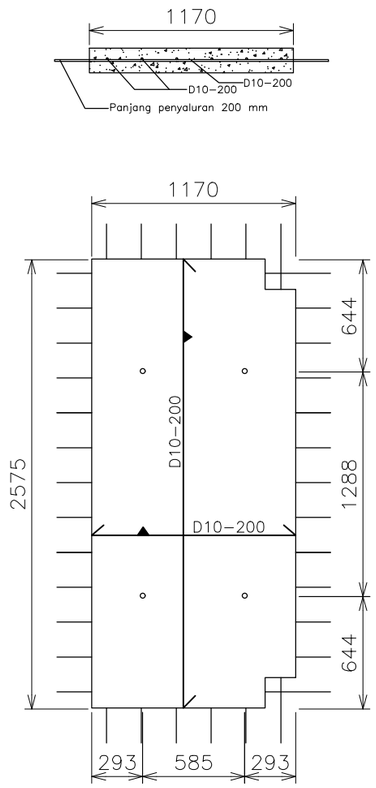
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	33	



PENULANGAN PELAT PL 17A
SKALA 1:20



PENULANGAN PELAT PL 17B
SKALA 1:20



PENULANGAN PELAT PL 17C
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN PLAT PL 17

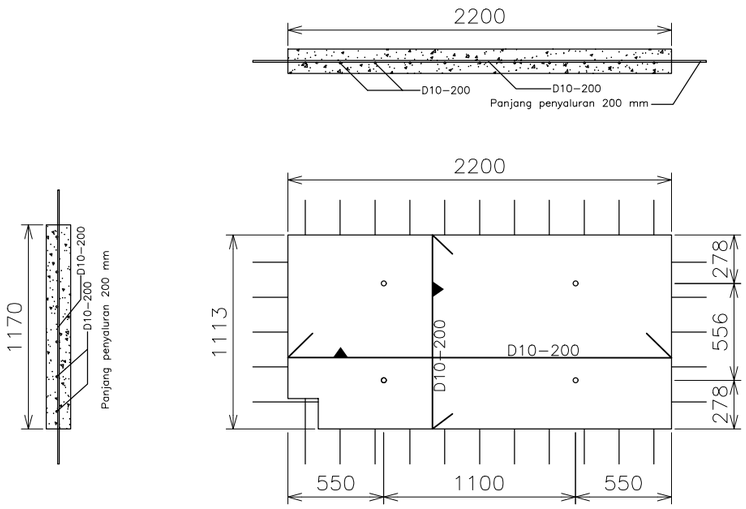
SKALA GAMBAR

1 : 20

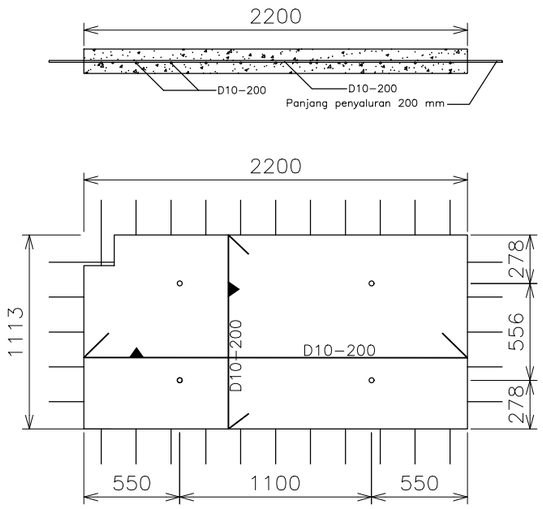
CATATAN

Satuan gambar menggunakan mm

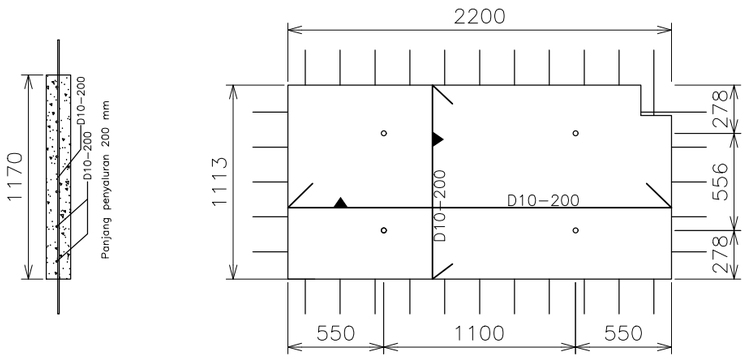
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	34	



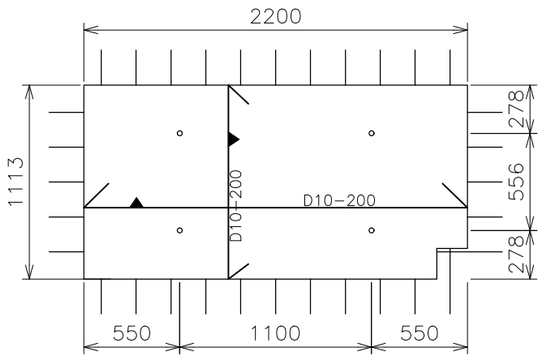
PENULANGAN PELAT PL 18A
SKALA 1:20



PENULANGAN PELAT PL 18B
SKALA 1:20



PENULANGAN PELAT PL 18D
SKALA 1:20



PENULANGAN PELAT PL 18C
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN PLAT PL 18

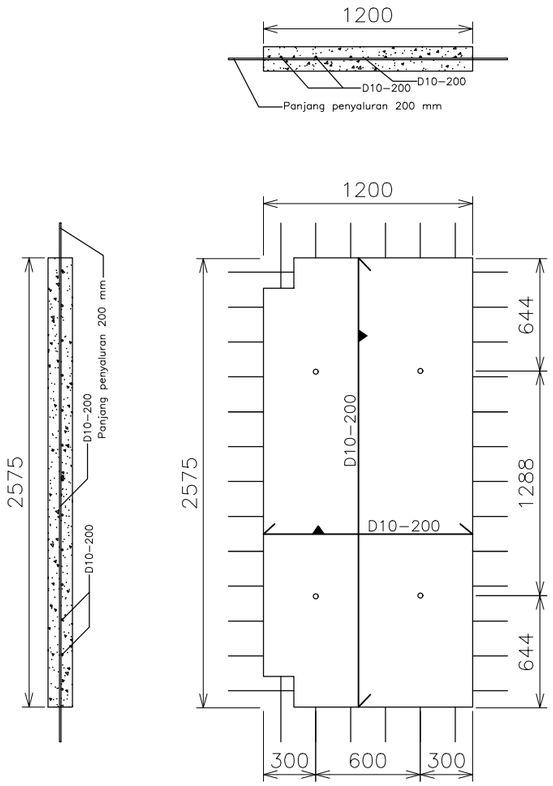
SKALA GAMBAR

1 : 20

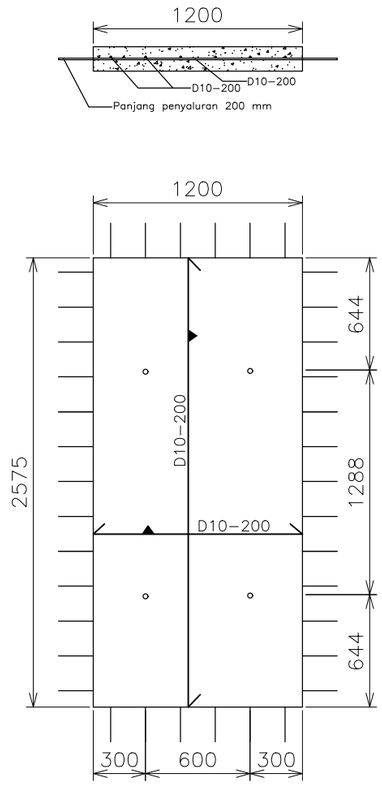
CATATAN

Satuan gambar menggunakan mm

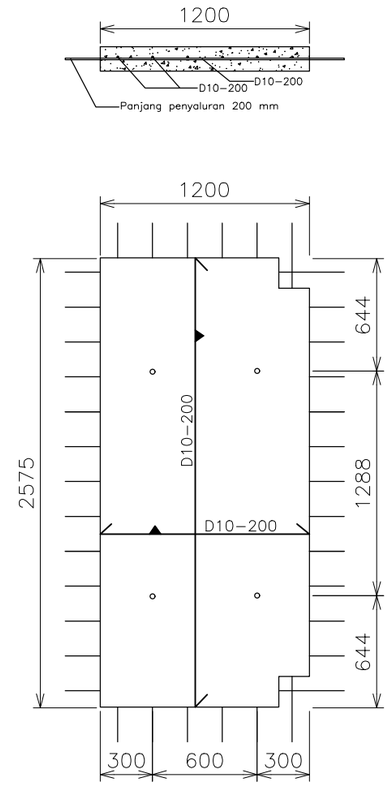
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	35	



PENULANGAN PELAT PL 19A
SKALA 1:20



PENULANGAN PELAT PL 19B
SKALA 1:20



PENULANGAN PELAT PL 19C
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN PLAT PL 19

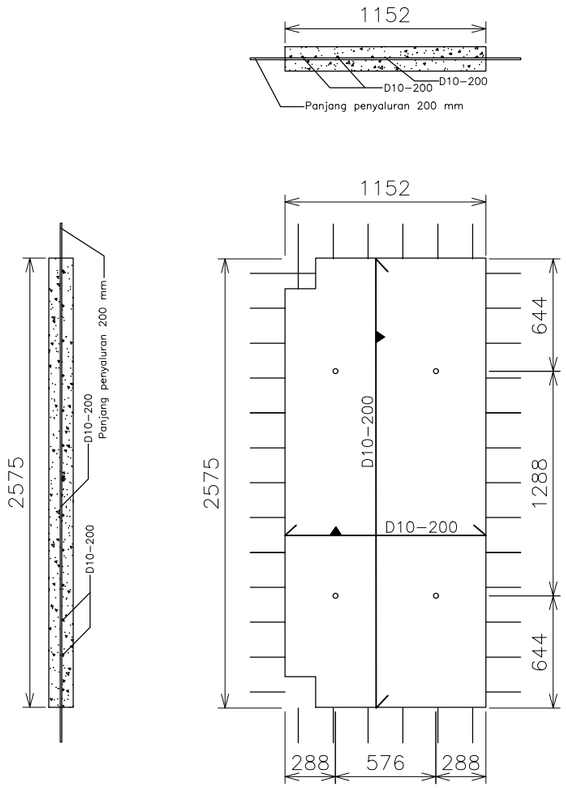
SKALA GAMBAR

1 : 20

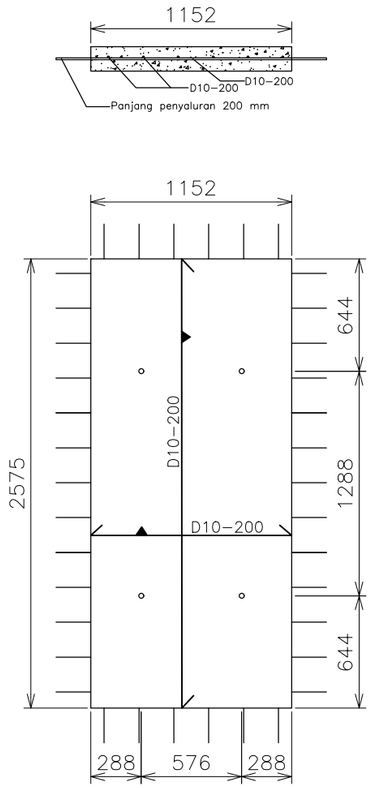
CATATAN

Satuan gambar menggunakan mm

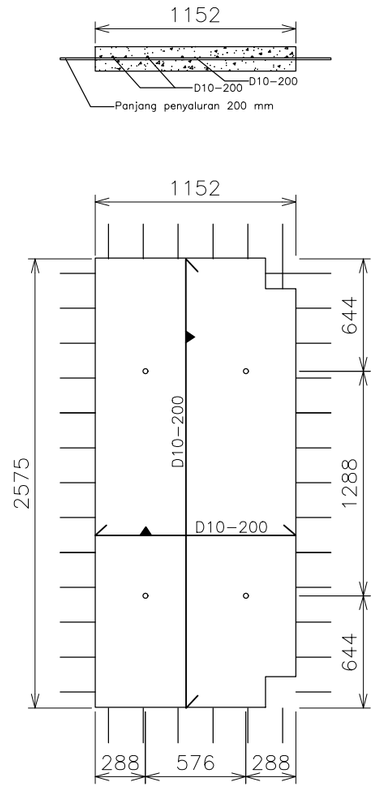
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	36	



PENULANGAN PELAT PL 20A
SKALA 1:20



PENULANGAN PELAT PL 20B
SKALA 1:20



PENULANGAN PELAT PL 20C
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

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DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN PLAT PL 20

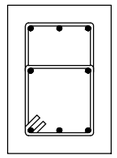
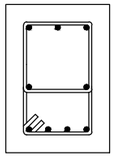
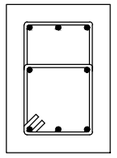
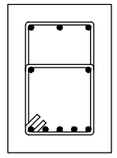
SKALA GAMBAR

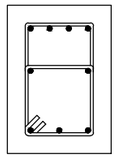
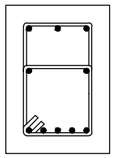
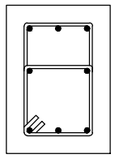
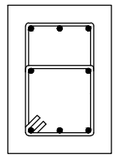
1 : 20

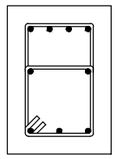
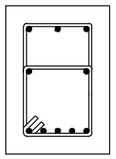
CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	37	

TIPE BALOK	BA 1		TIPE BALOK	BA 2	
POSISI	TUMPUAN	LAPANGAN	POSISI	TUMPUAN	LAPANGAN
DETAIL BALOK			DETAIL BALOK		
DIMENSI	350 x 500 mm	350 x 500 mm	DIMENSI	350 x 500 mm	350 x 500 mm
TUL ATAS	3D19	3D19	TUL ATAS	3D19	3D19
TUL SAMPING	2D19	2D19	TUL SAMPING	2D19	2D19
TUL BAWAH	3D19	4D19	TUL BAWAH	3D19	5D19
SENGKANG	2D10 - 200 mm	2D10 - 200 mm	SENGKANG	2D10 - 200 mm	2D10 - 200 mm

TIPE BALOK	BA 3		TIPE BALOK	BA 4	
POSISI	TUMPUAN	LAPANGAN	POSISI	TUMPUAN	LAPANGAN
DETAIL BALOK			DETAIL BALOK		
DIMENSI	350 x 500 mm	350 x 500 mm	DIMENSI	350 x 500 mm	350 x 500 mm
TUL ATAS	4D19	3D19	TUL ATAS	3D19	3D19
TUL SAMPING	2D19	2D19	TUL SAMPING	2D19	2D19
TUL BAWAH	3D19	5D19	TUL BAWAH	3D19	3D19
SENGKANG	2D10 - 200 mm	2D10 - 200 mm	SENGKANG	2D10 - 200 mm	2D10 - 200 mm

TIPE BALOK	BA 5	
POSISI	TUMPUAN	LAPANGAN
DETAIL BALOK		
DIMENSI	350 x 500 mm	350 x 500 mm
TUL ATAS	4D19	3D19
TUL SAMPING	2D19	2D19
TUL BAWAH	3D19	5D19
SENGKANG	2D10 - 200 mm	2D10 - 200 mm

DETAIL BALOK ANAK
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL BALOK ANAK

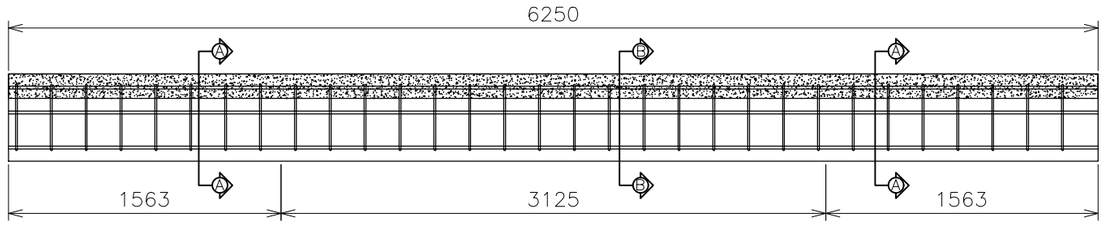
SKALA GAMBAR

1 : 20

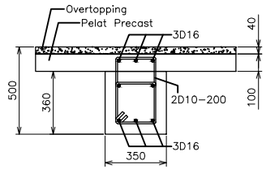
CATATAN

Satuan gambar menggunakan mm

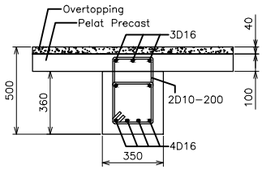
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	38	



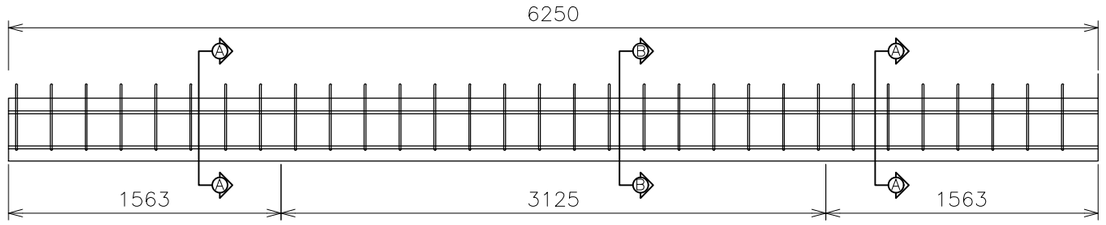
BALOK ANAK SETELAH KOMPOSIT



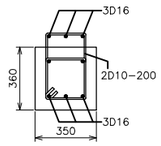
POT A-A



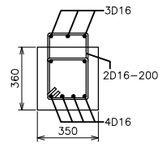
POT B-B



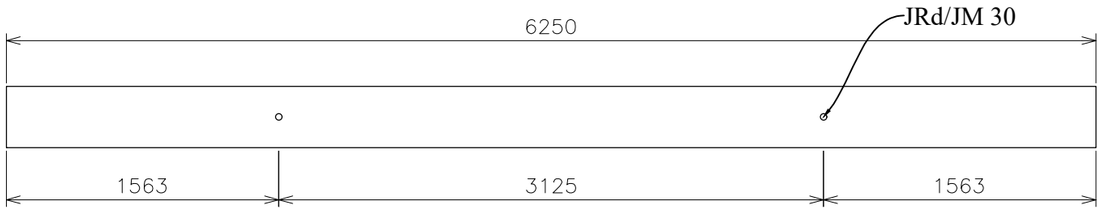
BALOK ANAK SEBELUM KOMPOSIT



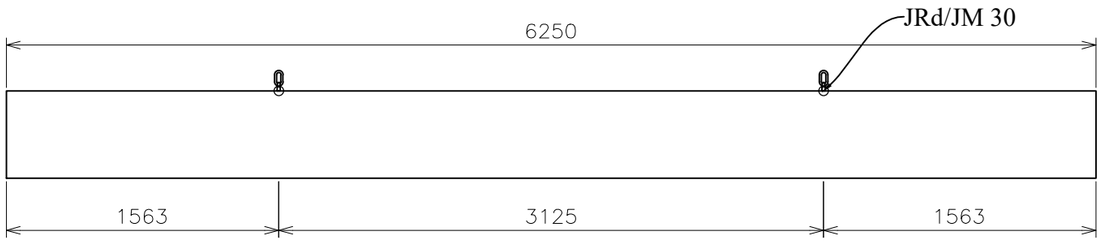
POT A-A



POT B-B



TAMPAK ATAS TULANGAN ANGKAT



TAMPAK SAMPING TULANGAN ANGKAT

PENULANGAN BALOK ANAK TYPE BA 1
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN
BALOK ANAK TYPE BA 1

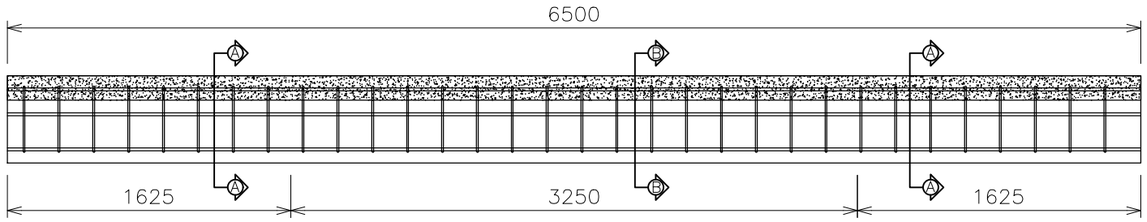
SKALA GAMBAR

1 : 20

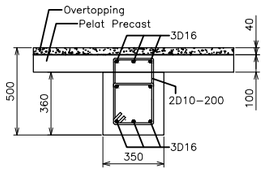
CATATAN

Satuan gambar menggunakan mm

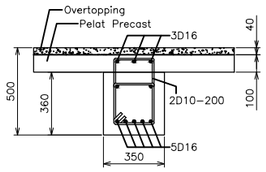
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	39	



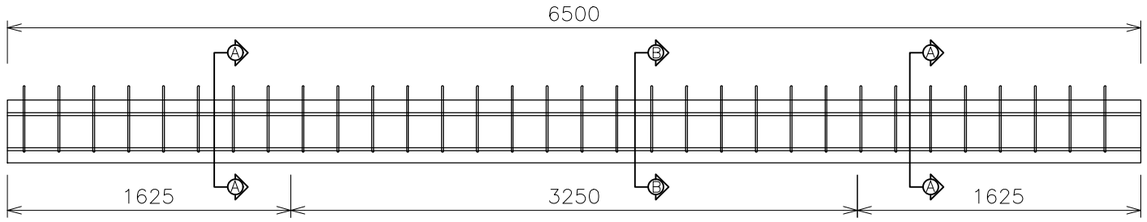
BALOK ANAK SETELAH KOMPOSIT



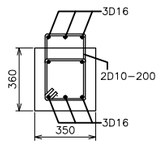
POT A-A



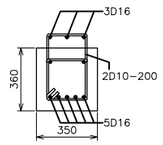
POT B-B



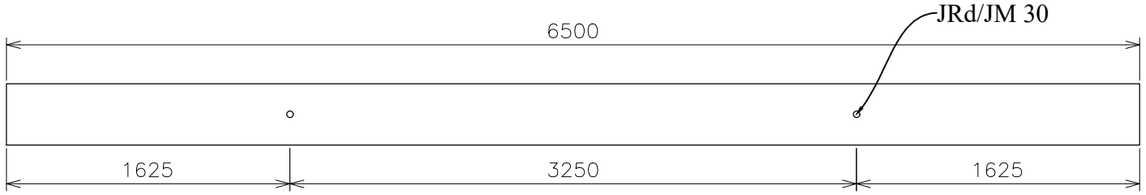
BALOK ANAK SEBELUM KOMPOSIT



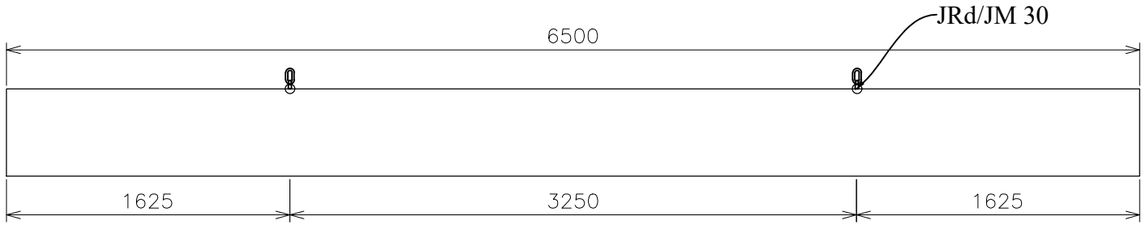
POT A-A



POT B-B



TAMPAK ATAS TULANGAN ANGKAT



TAMPAK SAMPING TULANGAN ANGKAT

PENULANGAN BALOK ANAK TYPE BA 2
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

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DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN
BALOK ANAK TYPE BA 2

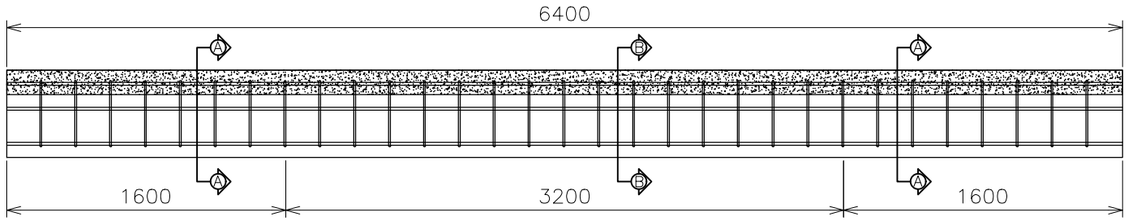
SKALA GAMBAR

1 : 20

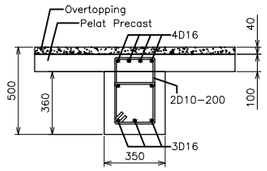
CATATAN

Satuan gambar menggunakan mm

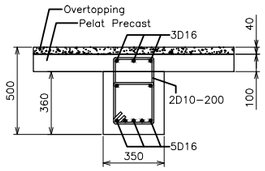
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	40	



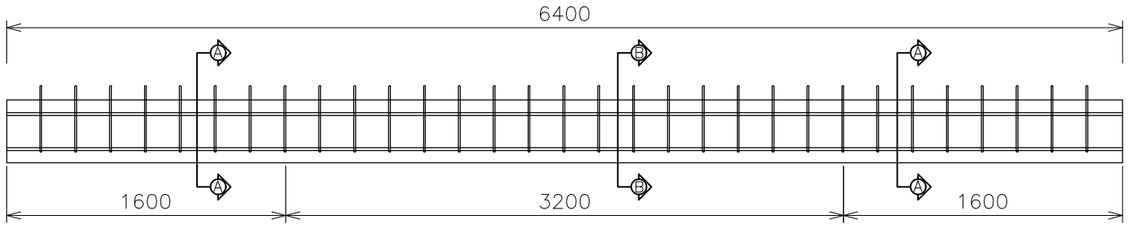
BALOK ANAK SETELAH KOMPOSIT



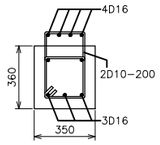
POT A-A



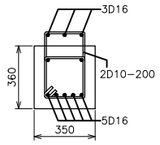
POT B-B



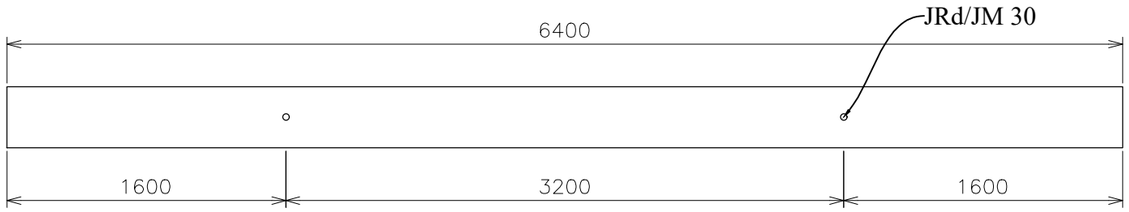
BALOK ANAK SEBELUM KOMPOSIT



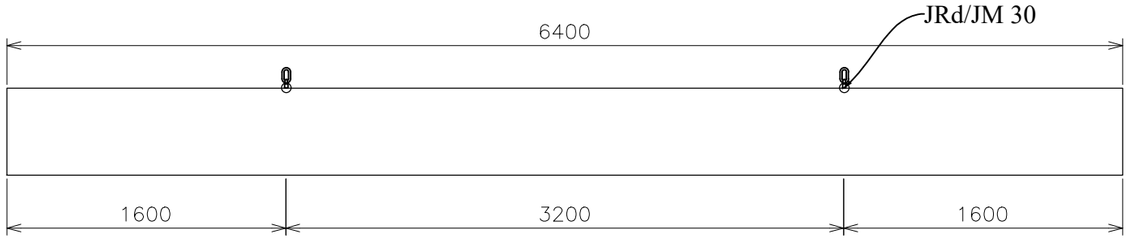
POT A-A



POT B-B



TAMPAK ATAS TULANGAN ANGKAT



TAMPAK SAMPING TULANGAN ANGKAT

PENULANGAN BALOK ANAK TYPE BA 3
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN
BALOK ANAK TYPE BA 3

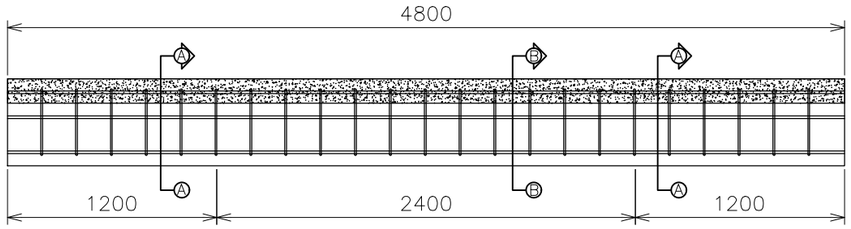
SKALA GAMBAR

1 : 20

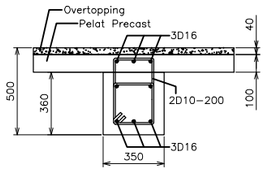
CATATAN

Satuan gambar menggunakan mm

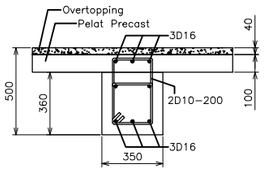
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	41	



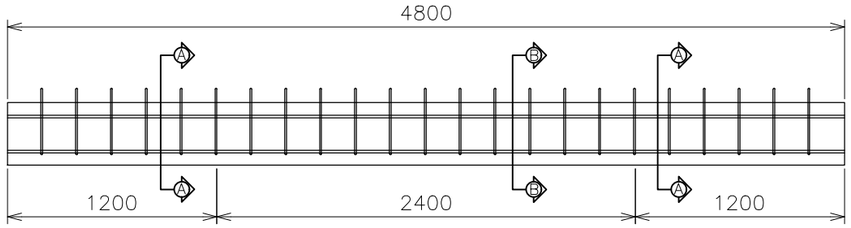
BALOK ANAK SETELAH KOMPOSIT



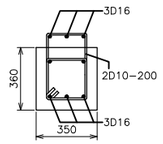
POT A-A



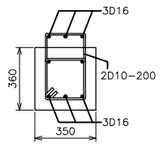
POT B-B



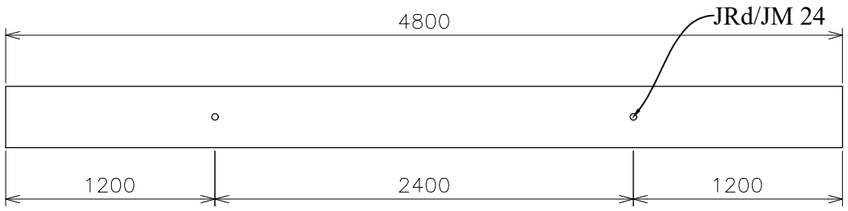
BALOK ANAK SEBELUM KOMPOSIT



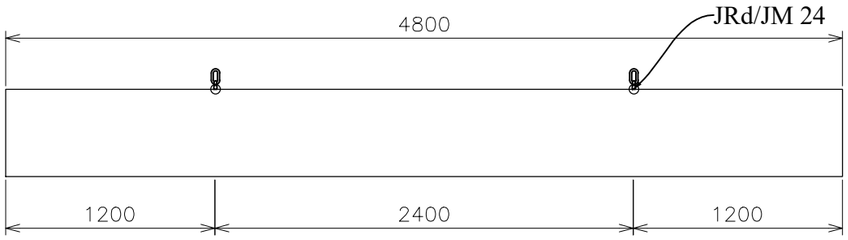
POT A-A



POT B-B



TAMPAK ATAS TULANGAN ANGKAT



TAMPAK SAMPING TULANGAN ANGKAT

PENULANGAN BALOK ANAK TYPE BA 4
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN
BALOK ANAK TYPE BA 4

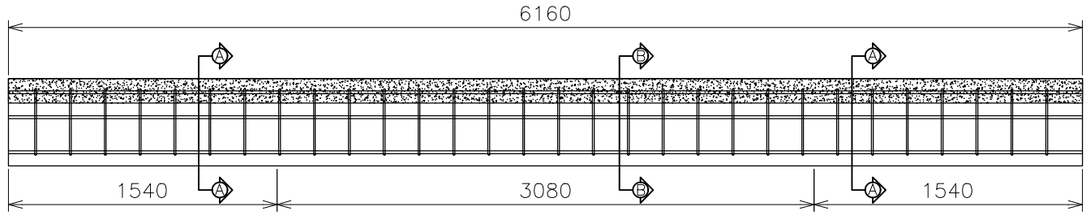
SKALA GAMBAR

1 : 20

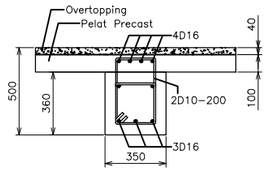
CATATAN

Satuan gambar menggunakan mm

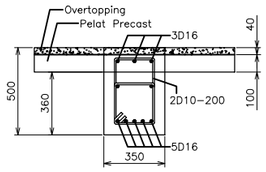
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	42	



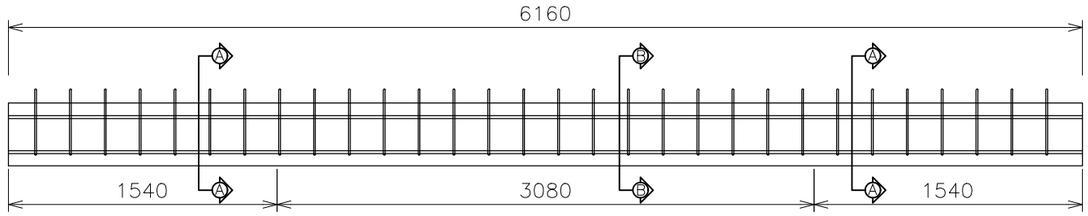
BALOK ANAK SETELAH KOMPOSIT



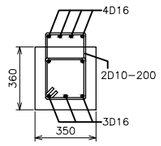
POT A-A



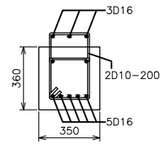
POT B-B



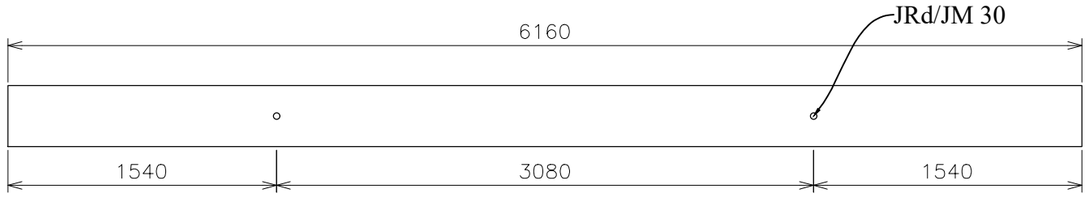
BALOK ANAK SEBELUM KOMPOSIT



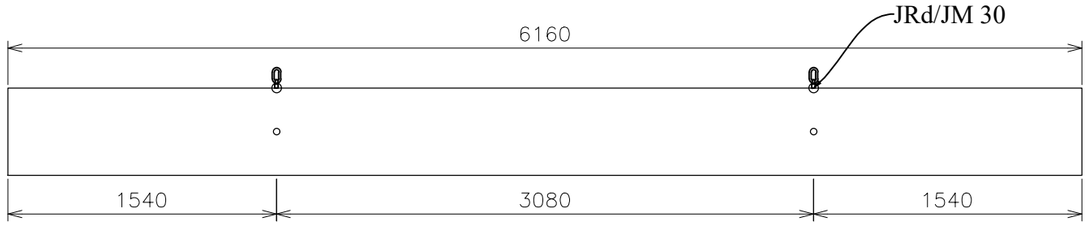
POT A-A



POT B-B



TAMPAK ATAS TULANGAN ANGKAT



TAMPAK SAMPING TULANGAN ANGKAT

PENULANGAN BALOK ANAK TYPE BA 5
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN
BALOK ANAK TYPE BA 5

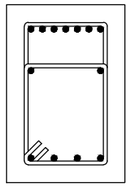
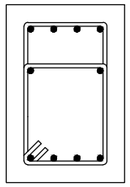
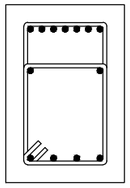
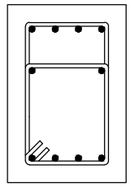
SKALA GAMBAR

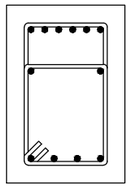
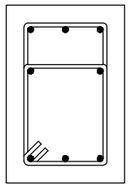
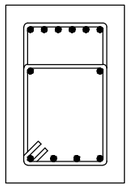
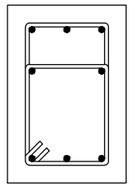
1 : 20

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	43	

TIPE BALOK	BI 1		TIPE BALOK	BI 2	
POSISI	TUMPUAN	LAPANGAN	POSISI	TUMPUAN	LAPANGAN
DETAIL BALOK			DETAIL BALOK		
DIMENSI	350 x 500 mm	350 x 500 mm	DIMENSI	350 x 500 mm	350 x 500 mm
TUL ATAS	7D19	4D19	TUL ATAS	7D19	4D19
TUL SAMPING	2D19	2D19	TUL SAMPING	2D19	2D19
TUL BAWAH	4D19	4D19	TUL BAWAH	4D19	4D19
SENGKANG	2D13 - 100 mm	2D13 - 200 mm	SENGKANG	2D13 - 100 mm	2D13 - 200 mm

TIPE BALOK	BI 3		TIPE BALOK	BI 4	
POSISI	TUMPUAN	LAPANGAN	POSISI	TUMPUAN	LAPANGAN
DETAIL BALOK			DETAIL BALOK		
DIMENSI	350 x 500 mm	350 x 500 mm	DIMENSI	350 x 500 mm	350 x 500 mm
TUL ATAS	6D19	3D19	TUL ATAS	6D19	3D19
TUL SAMPING	2D19	2D19	TUL SAMPING	2D19	2D19
TUL BAWAH	4D19	3D19	TUL BAWAH	4D19	3D19
SENGKANG	2D13 - 100 mm	2D13 - 200 mm	SENGKANG	2D13 - 100 mm	2D13 - 200 mm

DETAIL BALOK INDUK
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL BALOK INDUK

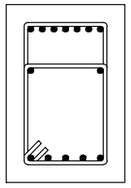
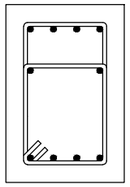
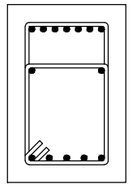
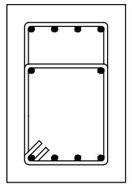
SKALA GAMBAR

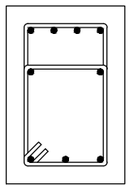
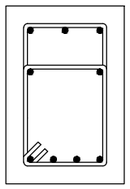
1 : 20

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	44	

TIPE BALOK	BI 5		TIPE BALOK	BI 6	
POSISI	TUMPUAN	LAPANGAN	POSISI	TUMPUAN	LAPANGAN
DETAIL BALOK			DETAIL BALOK		
DIMENSI	350 x 500 mm	350 x 500 mm	DIMENSI	350 x 500 mm	350 x 500 mm
TUL ATAS	7D19	4D19	TUL ATAS	7D19	4D19
TUL SAMPING	2D19	2D19	TUL SAMPING	2D19	2D19
TUL BAWAH	5D19	4D19	TUL BAWAH	5D19	4D19
SENGKANG	2D13 - 100 mm	2D13 - 200 mm	SENGKANG	2D13 - 100 mm	2D13 - 200 mm

TIPE BALOK	BI 7	
POSISI	TUMPUAN	LAPANGAN
DETAIL BALOK		
DIMENSI	350 x 500 mm	350 x 500 mm
TUL ATAS	4D19	3D19
TUL SAMPING	2D19	2D19
TUL BAWAH	3D19	4D19
SENGKANG	2D13 - 100 mm	2D13 - 200 mm

DETAIL BALOK INDUK
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

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MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL BALOK INDUK

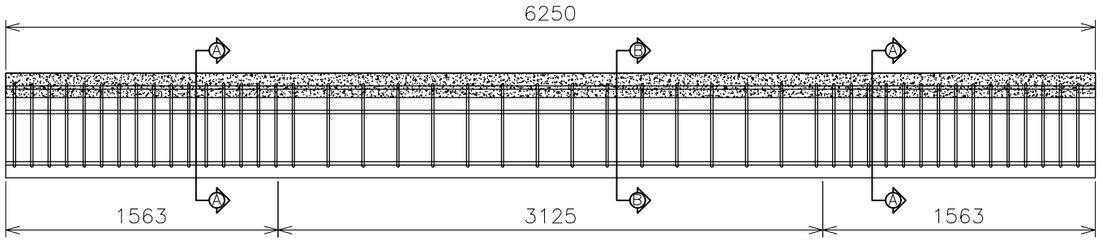
SKALA GAMBAR

1 : 20

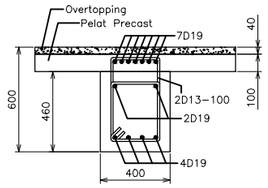
CATATAN

Satuan gambar menggunakan mm

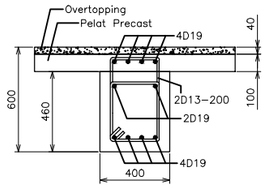
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	45	



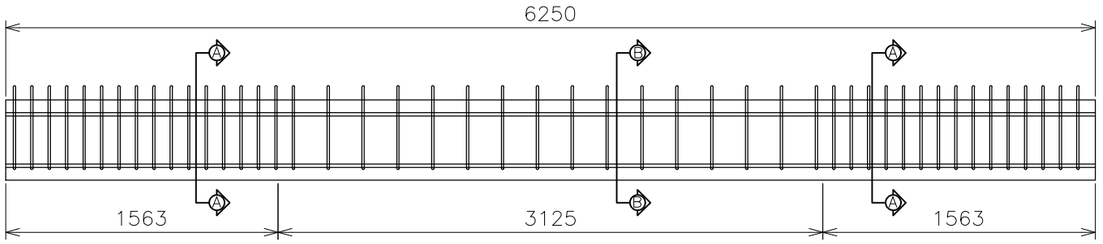
BALOK INDUK SETELAH KOMPOSIT



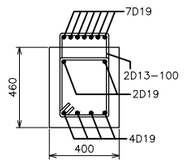
POT A-A



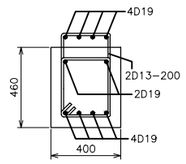
POT B-B



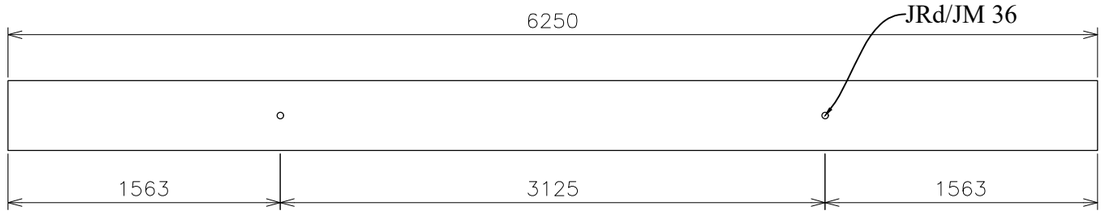
BALOK INDUK SEBELUM KOMPOSIT



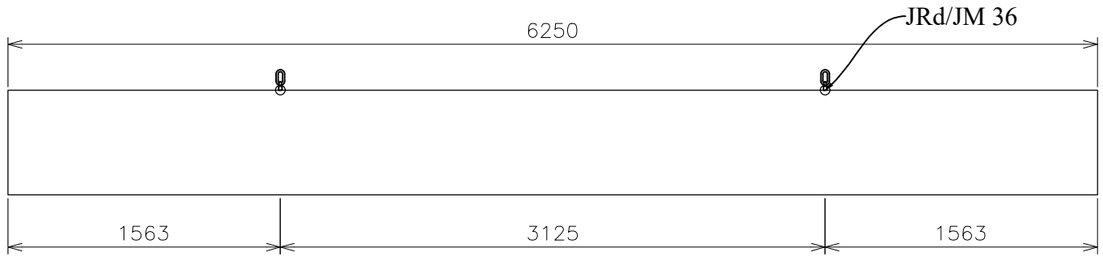
POT A-A



POT B-B



TAMPAK ATAS TULANGAN ANGKAT



TAMPAK SAMPING TULANGAN ANGKAT

PENULANGAN BALOK INDUK TYPE BI 1
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN
BALOK ANAK TYPE BI 1

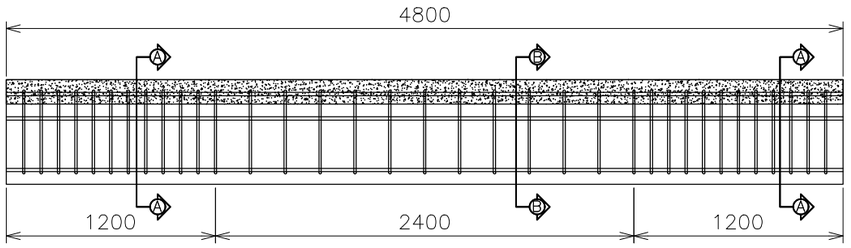
SKALA GAMBAR

1 : 20

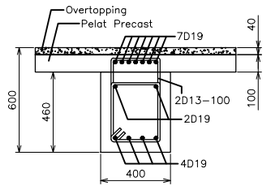
CATATAN

Satuan gambar menggunakan mm

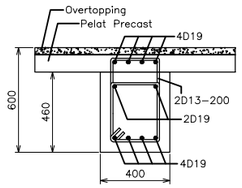
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	46	



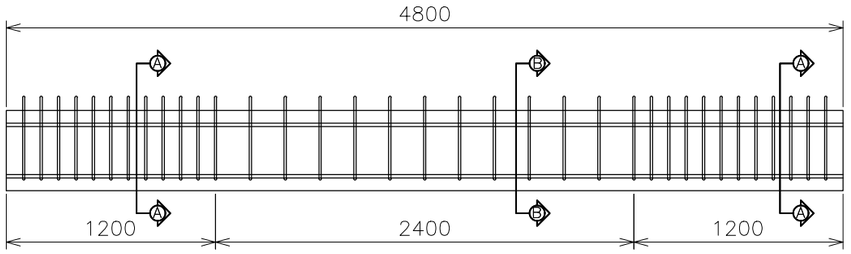
BALOK INDUK SETELAH KOMPOSIT



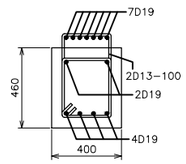
POT A-A



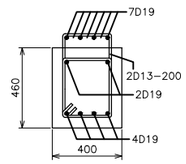
POT B-B



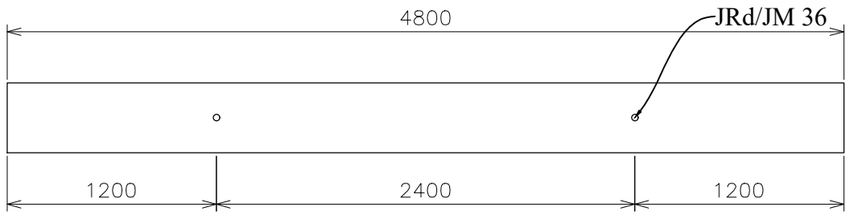
BALOK INDUK SEBELUM KOMPOSIT



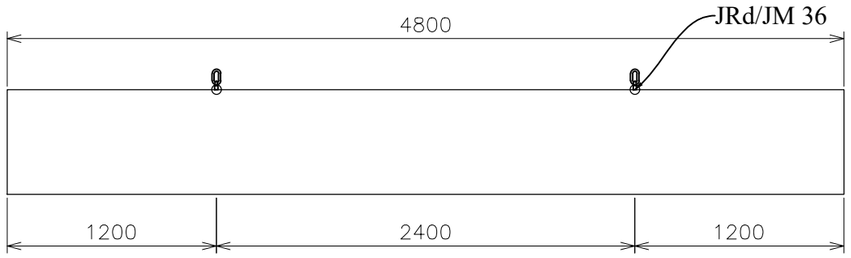
POT A-A



POT B-B



TAMPAK ATAS TULANGAN ANGKAT



TAMPAK SAMPING TULANGAN ANGKAT

PENULANGAN BALOK INDUK TYPE BI 2
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN
BALOK ANAK TYPE BI 2

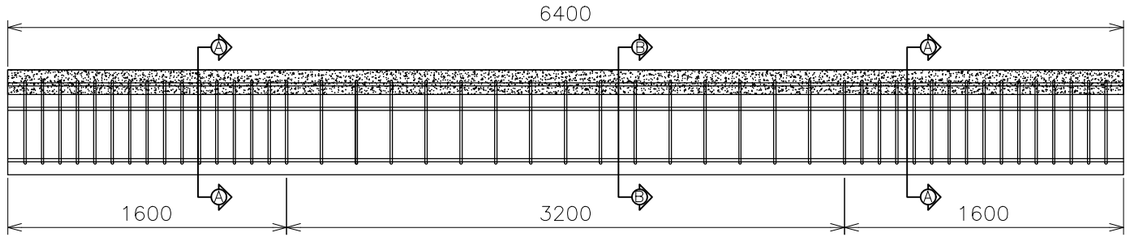
SKALA GAMBAR

1 : 20

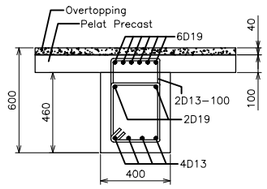
CATATAN

Satuan gambar menggunakan mm

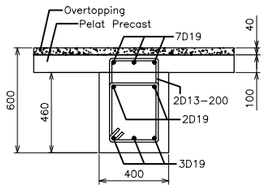
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	47	



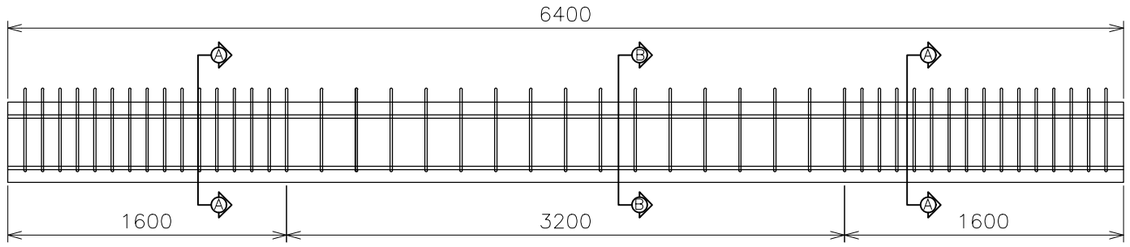
BALOK INDUK SETELAH KOMPOSIT



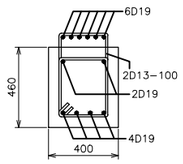
POT A-A



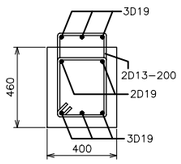
POT B-B



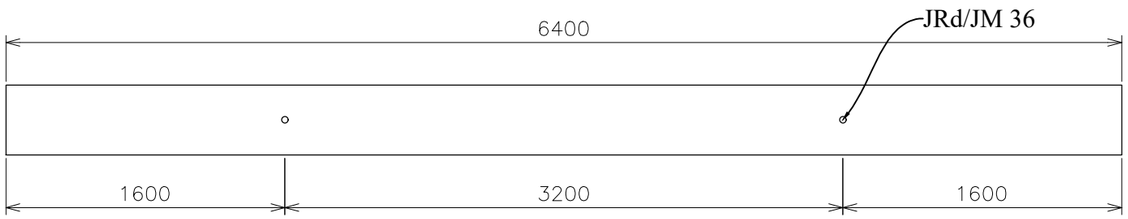
BALOK INDUK SEBELUM KOMPOSIT



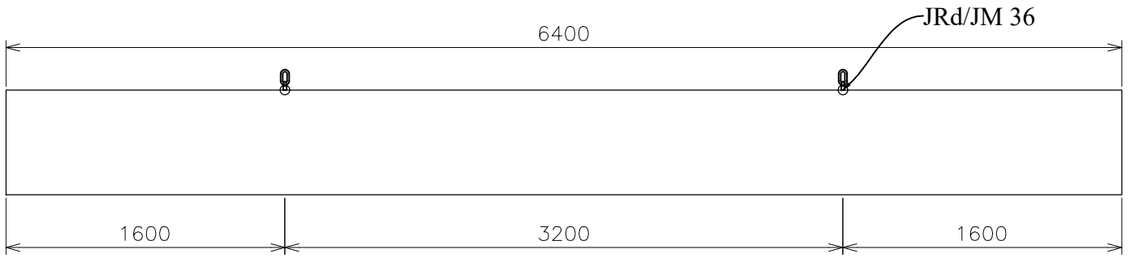
POT A-A



POT B-B



TAMPAK ATAS TULANGAN ANGKAT



TAMPAK SAMPING TULANGAN ANGKAT

PENULANGAN BALOK INDUK TYPE BI 3
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN
BALOK ANAK TYPE BI 3

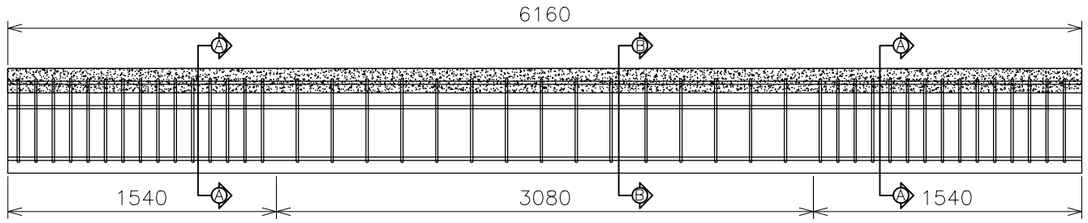
SKALA GAMBAR

1 : 20

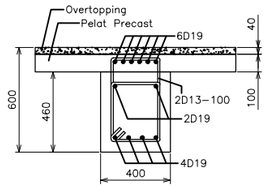
CATATAN

Satuan gambar menggunakan mm

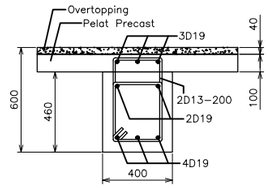
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	48	



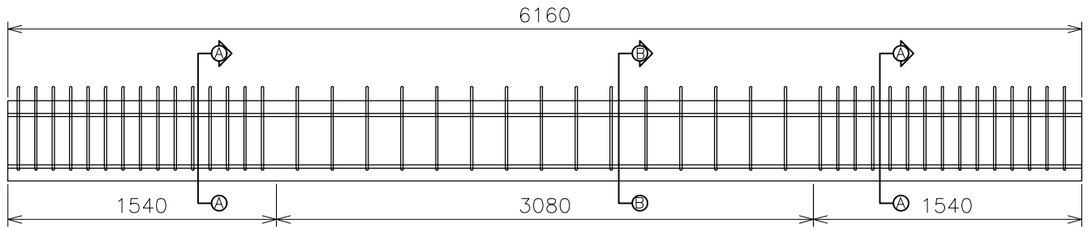
BALOK INDUK SETELAH KOMPOSIT



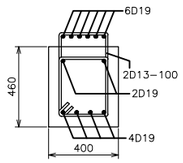
POT A-A



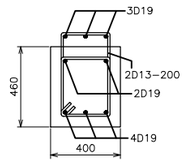
POT B-B



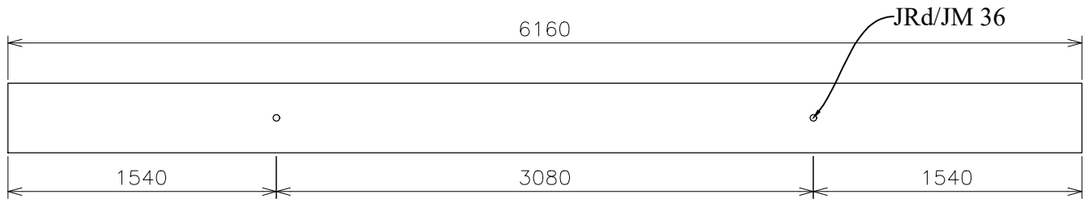
BALOK INDUK SEBELUM KOMPOSIT



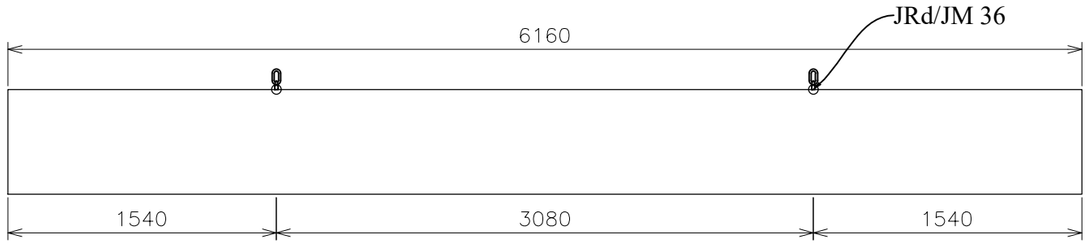
POT A-A



POT B-B



TAMPAK ATAS TULANGAN ANGKAT



TAMPAK SAMPING TULANGAN ANGKAT

PENULANGAN BALOK INDUK TYPE BI 4
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN
BALOK ANAK TYPE BI 4

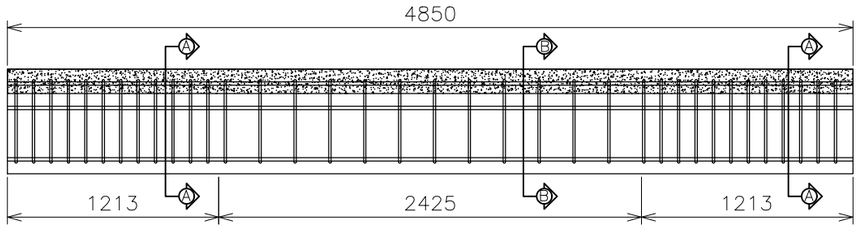
SKALA GAMBAR

1 : 20

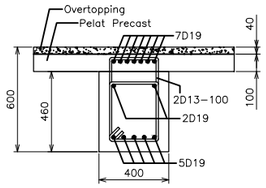
CATATAN

Satuan gambar menggunakan mm

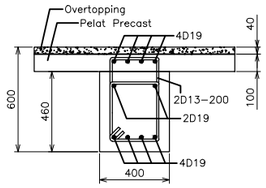
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	49	



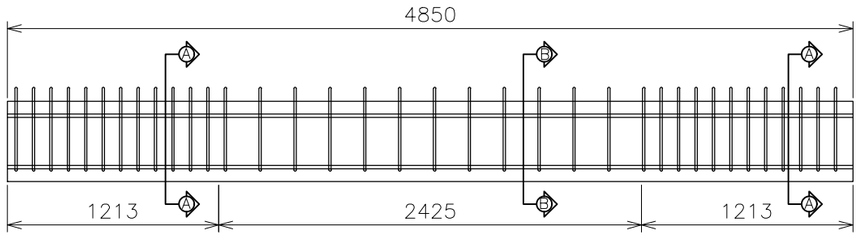
BALOK INDUK SETELAH KOMPOSIT



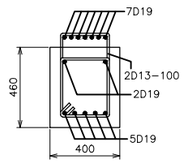
POT A-A



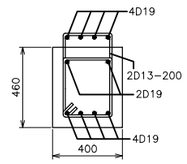
POT B-B



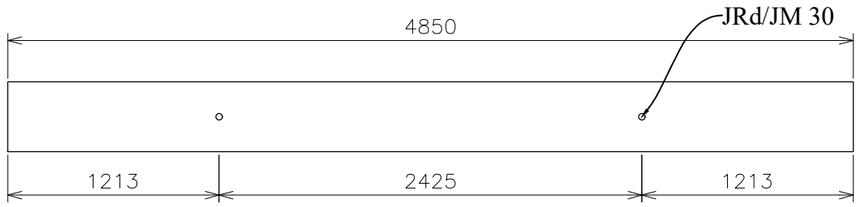
BALOK INDUK SEBELUM KOMPOSIT



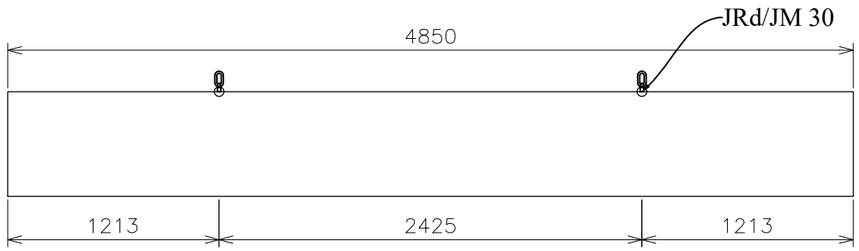
POT A-A



POT B-B



TAMPAK ATAS TULANGAN ANGKAT



TAMPAK SAMPING TULANGAN ANGKAT

PENULANGAN BALOK INDUK TYPE BI 5
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN
BALOK ANAK TYPE BI 5

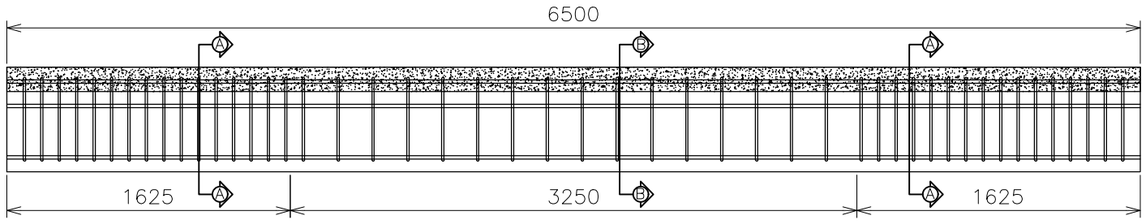
SKALA GAMBAR

1 : 20

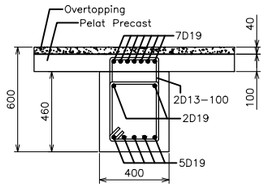
CATATAN

Satuan gambar menggunakan mm

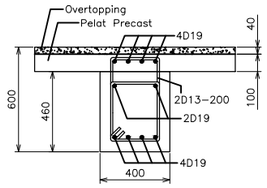
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	50	



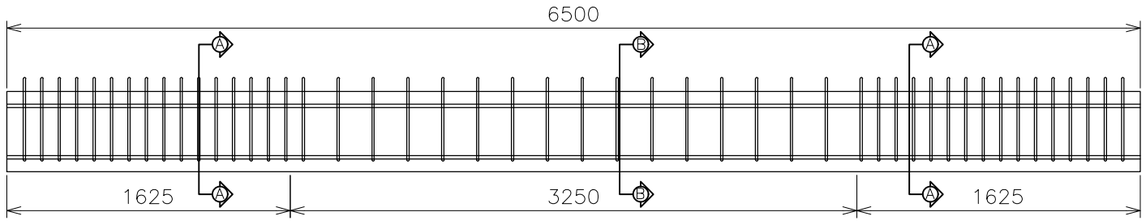
BALOK INDUK SETELAH KOMPOSIT



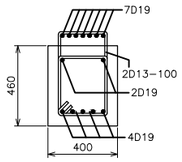
POT A-A



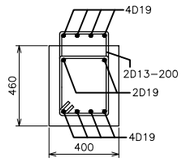
POT B-B



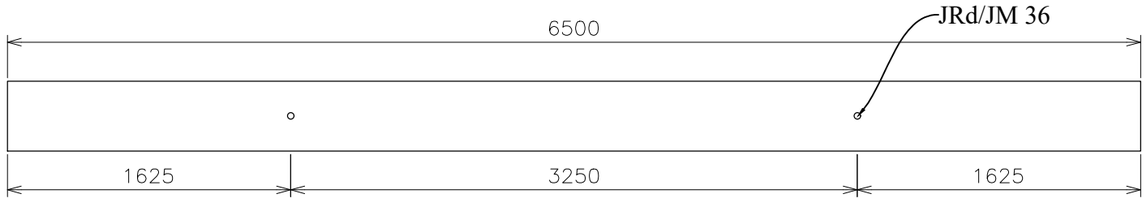
BALOK INDUK SEBELUM KOMPOSIT



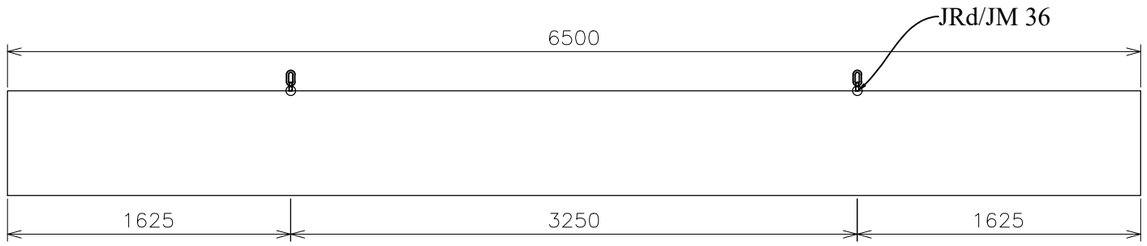
POT A-A



POT B-B



TAMPAK ATAS TULANGAN ANGKAT



TAMPAK SAMPING TULANGAN ANGKAT

PENULANGAN BALOK INDUK TYPE BI 6
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN
BALOK ANAK TYPE BI 6

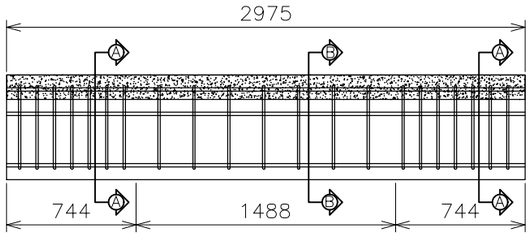
SKALA GAMBAR

1 : 20

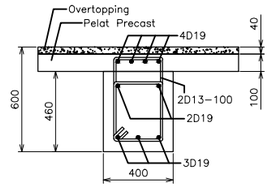
CATATAN

Satuan gambar menggunakan mm

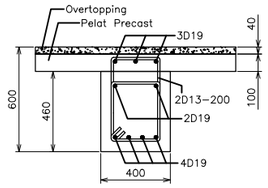
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	51	



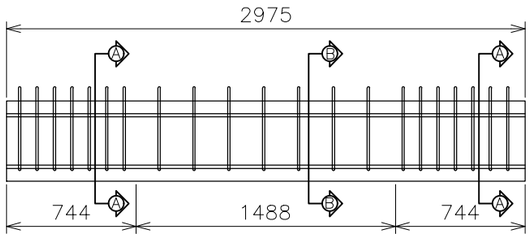
BALOK INDUK SETELAH KOMPOSIT



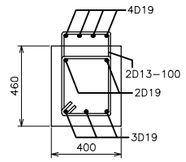
POT A-A



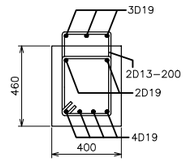
POT B-B



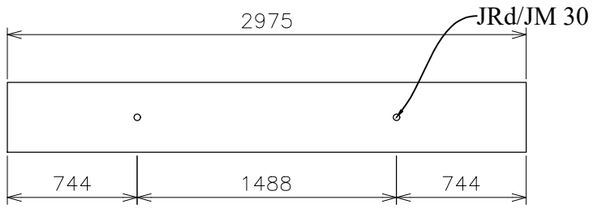
BALOK INDUK SEBELUM KOMPOSIT



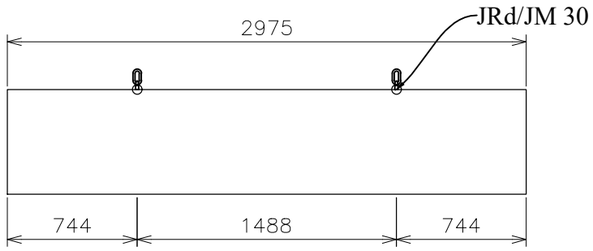
POT A-A



POT B-B



TAMPAK ATAS TULANGAN ANGKAT



TAMPAK SAMPING TULANGAN ANGKAT

PENULANGAN BALOK INDUK TYPE BI 7
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN
BALOK ANAK TYPE BI 7

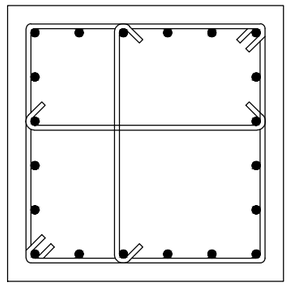
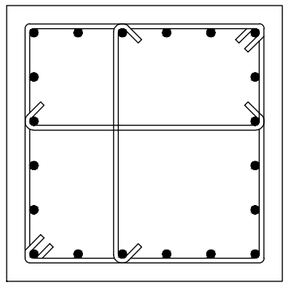
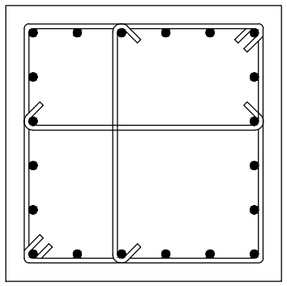
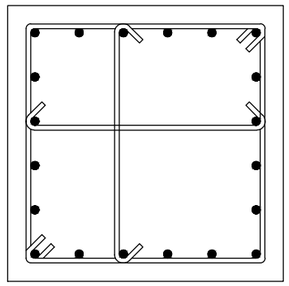
SKALA GAMBAR

1 : 20

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	52	

TIPE BALOK	K1		TIPE BALOK	K2	
POSISI	TUMPUAN	LAPANGAN	POSISI	TUMPUAN	LAPANGAN
DETAIL KOLOM			DETAIL KOLOM		
DIMENSI	750 x 750 mm	750 x 750 mm	DIMENSI	750 x 750 mm	750 x 750 mm
TUL UTAMA	20D22	20D22	TUL UTAMA	20D22	20D22
SENGKANG	4D13 - 100 mm	4D13 - 150 mm	SENGKANG	4D13 - 100 mm	4D13 - 150 mm

DETAIL KOLOM
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL KOLOM

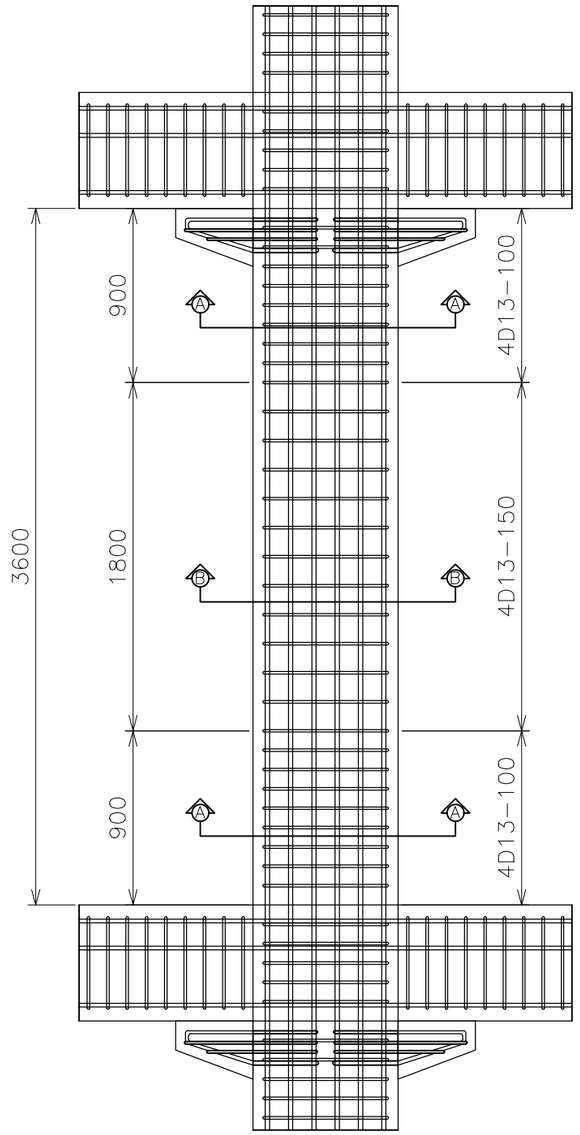
SKALA GAMBAR

1 : 20

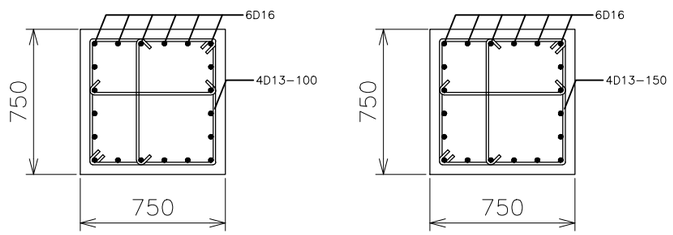
CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	53	



KOLOM LT 1



PENULANGAN KOLOM TYPE 1
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN KOLOM TYPE 1

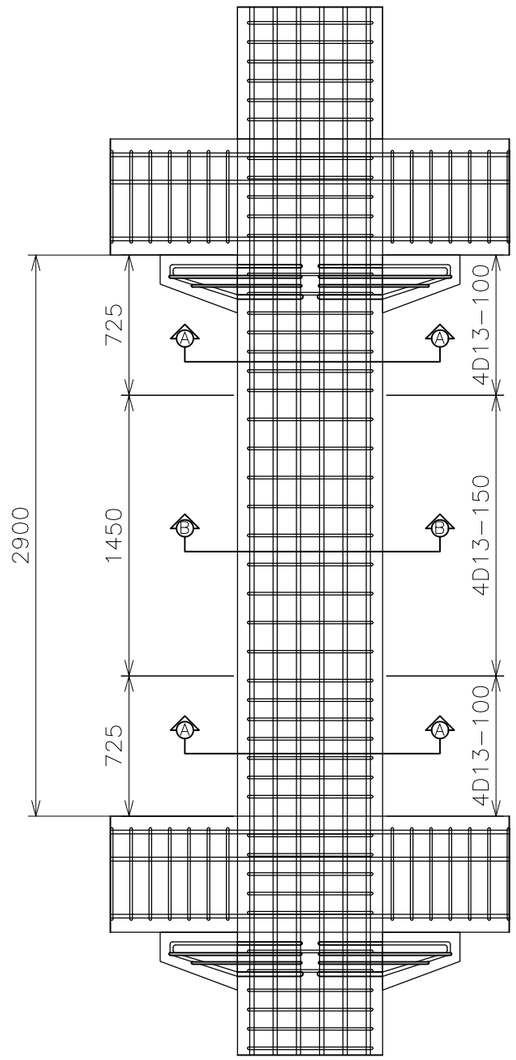
SKALA GAMBAR

1 : 20

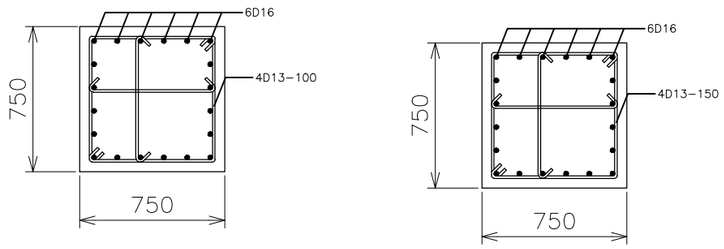
CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	54	



KOLOM LT 3



PENULANGAN KOLOM TYPE 2
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN KOLOM TYPE 2

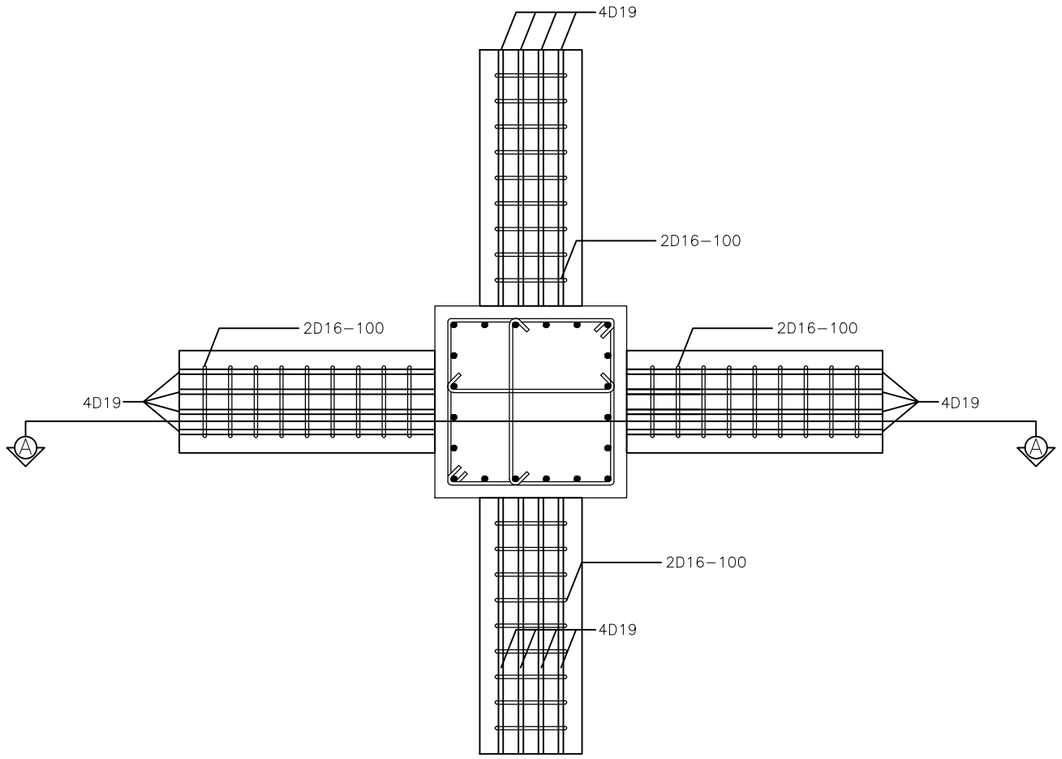
SKALA GAMBAR

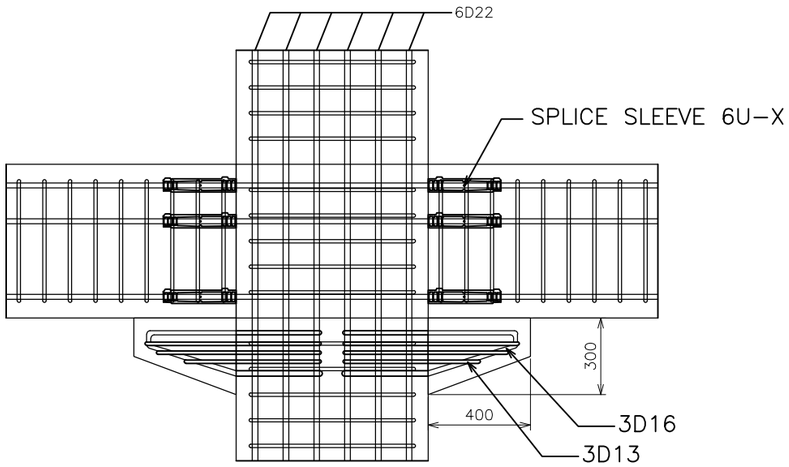
1 : 20

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	55	





SAMBUNGAN BALOK INDUK - KOLOM TITIK A
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

SAMBUNGAN BALOK INDUK - KOLOM TITIK A

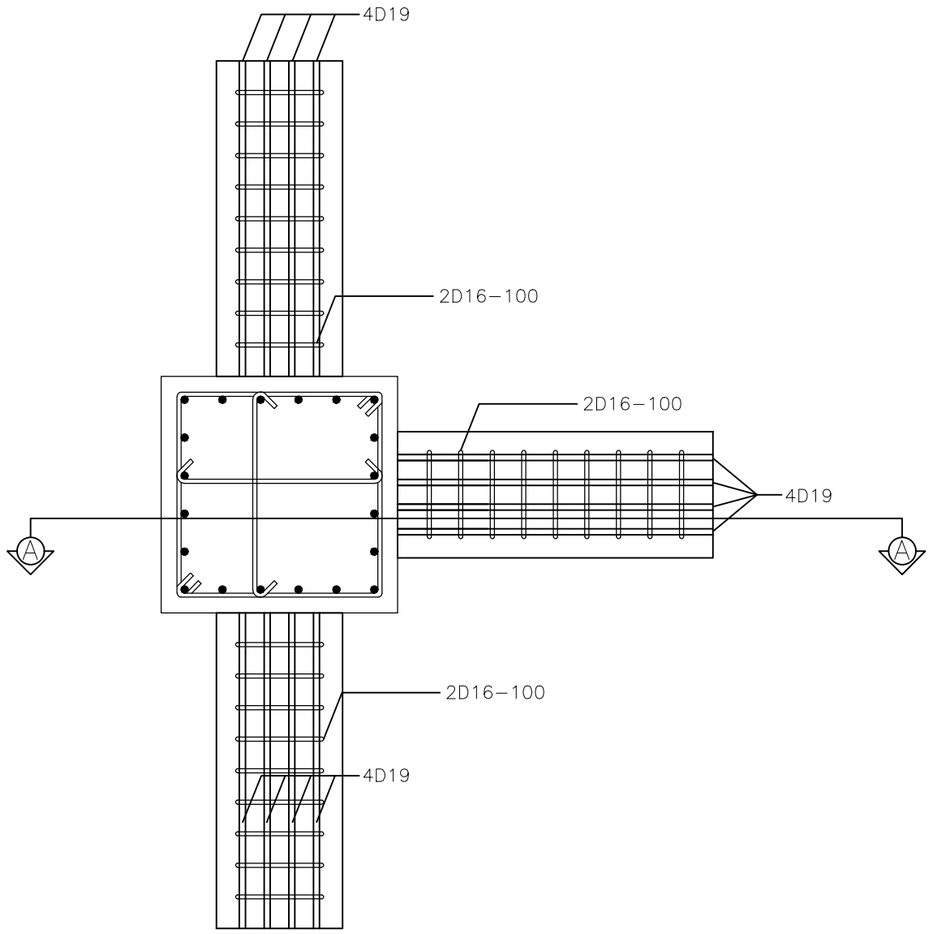
SKALA GAMBAR

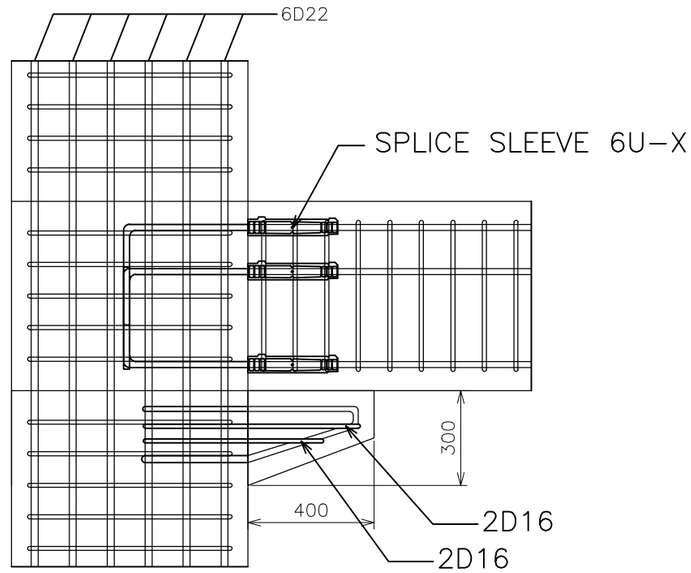
1 : 20

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	56	





SAMBUNGAN BALOK INDUK - KOLOM TITIK B
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

SAMBUNGAN BALOK INDUK - KOLOM TITIK B

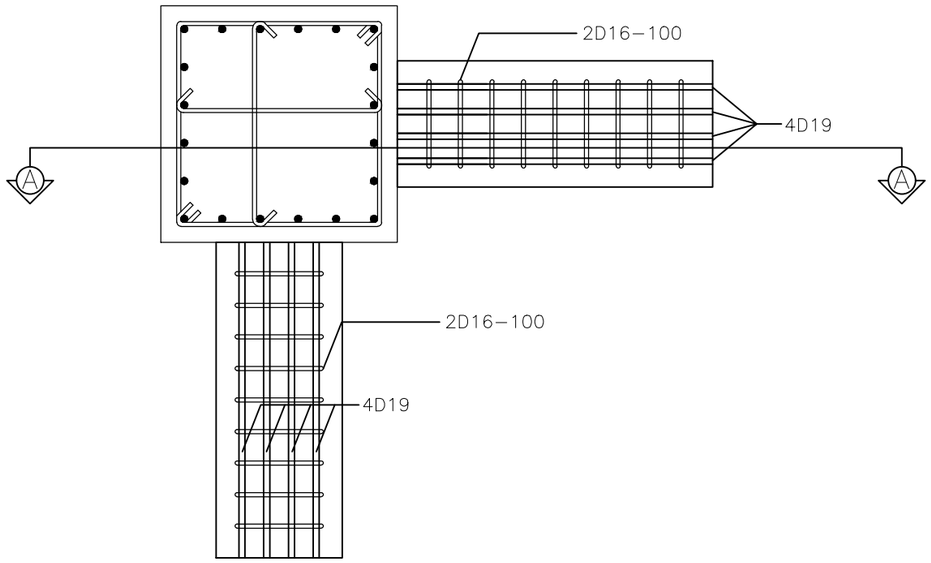
SKALA GAMBAR

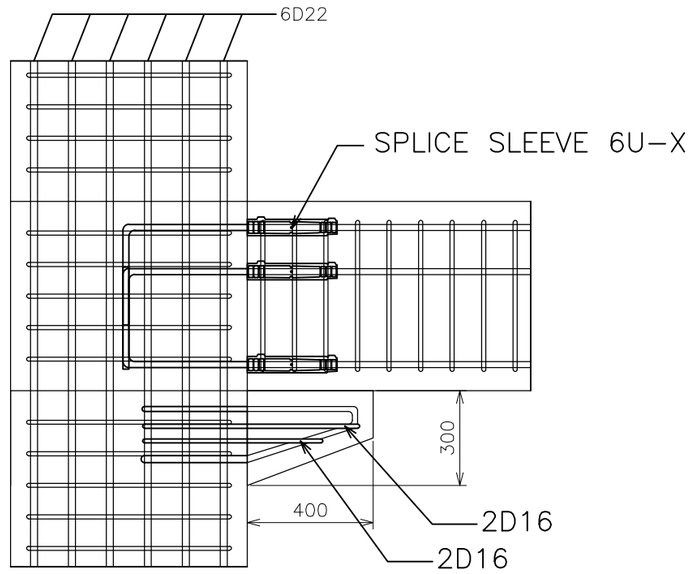
1 : 20

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	57	





SAMBUNGAN BALOK INDUK - KOLOM TITIK C
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

SAMBUNGAN BALOK INDUK - KOLOM TITIK C

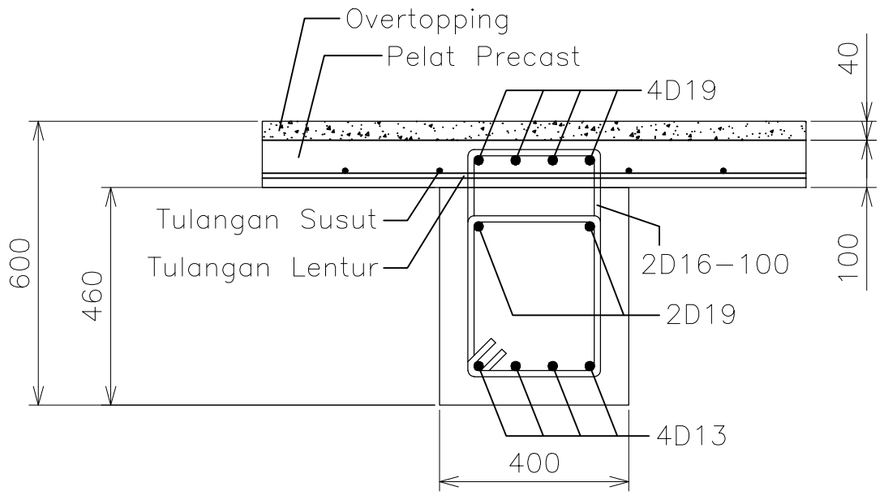
SKALA GAMBAR

1 : 20

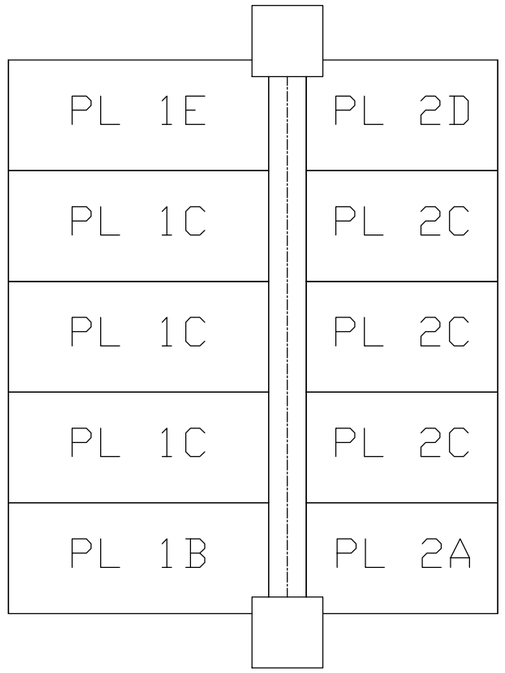
CATATAN

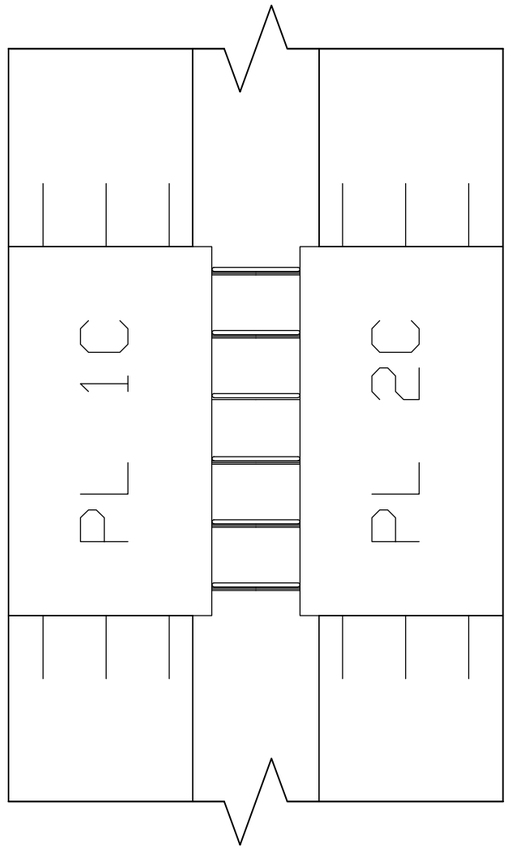
Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	58	



SAMBUNGAN BALOK - PELAT TITIK A
SKALA 1:20





PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

SAMBUNGAN BALOK - PELAT TITIK A

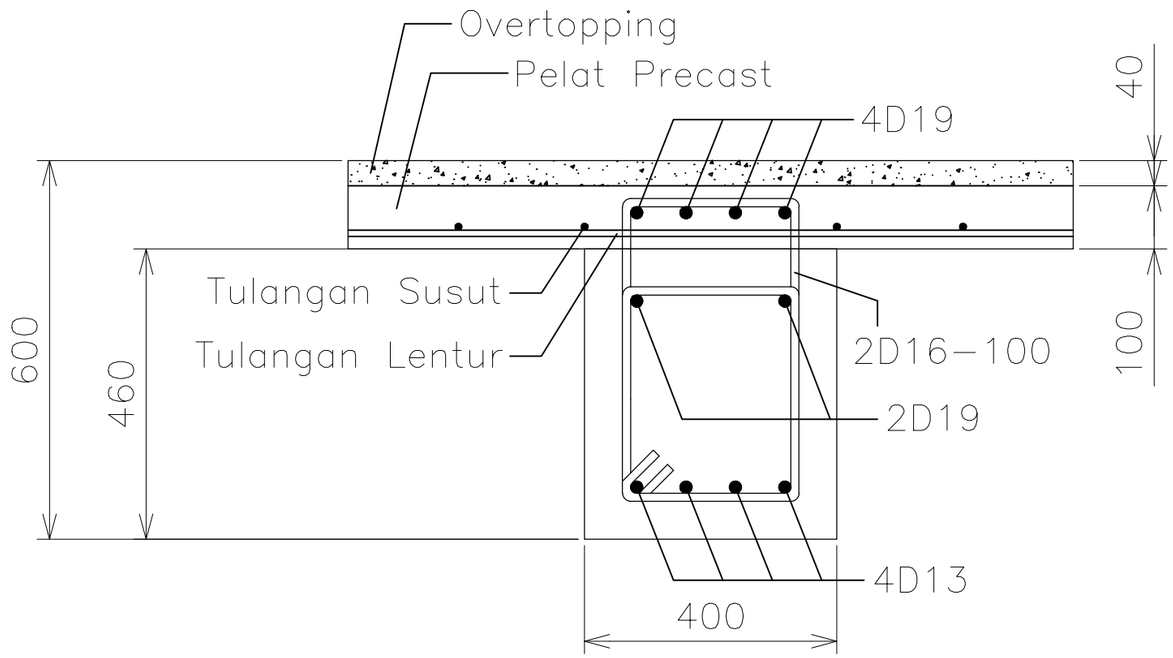
SKALA GAMBAR

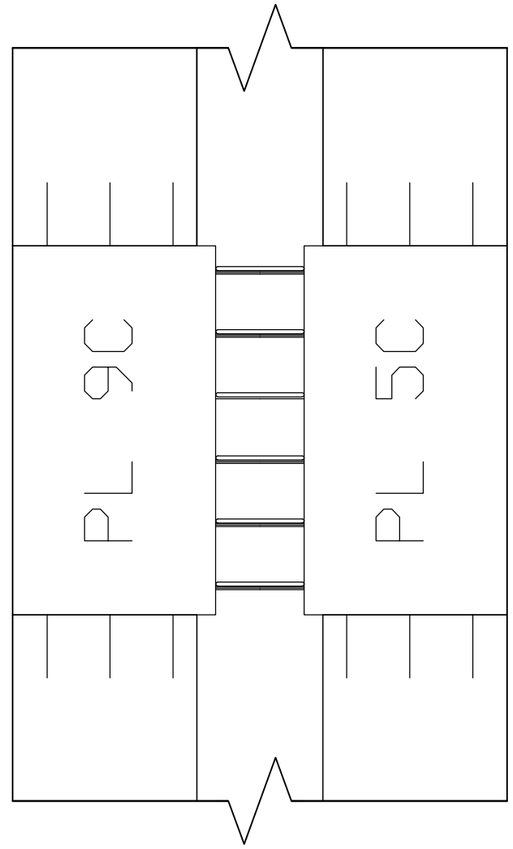
1 : 20

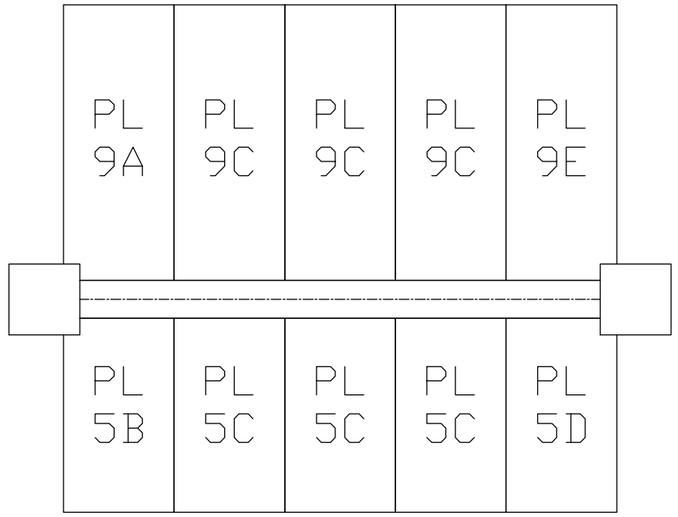
CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	59	







SAMBUNGAN BALOK - PELAT TITIK B
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

SAMBUNGAN BALOK - PELAT TITIK B

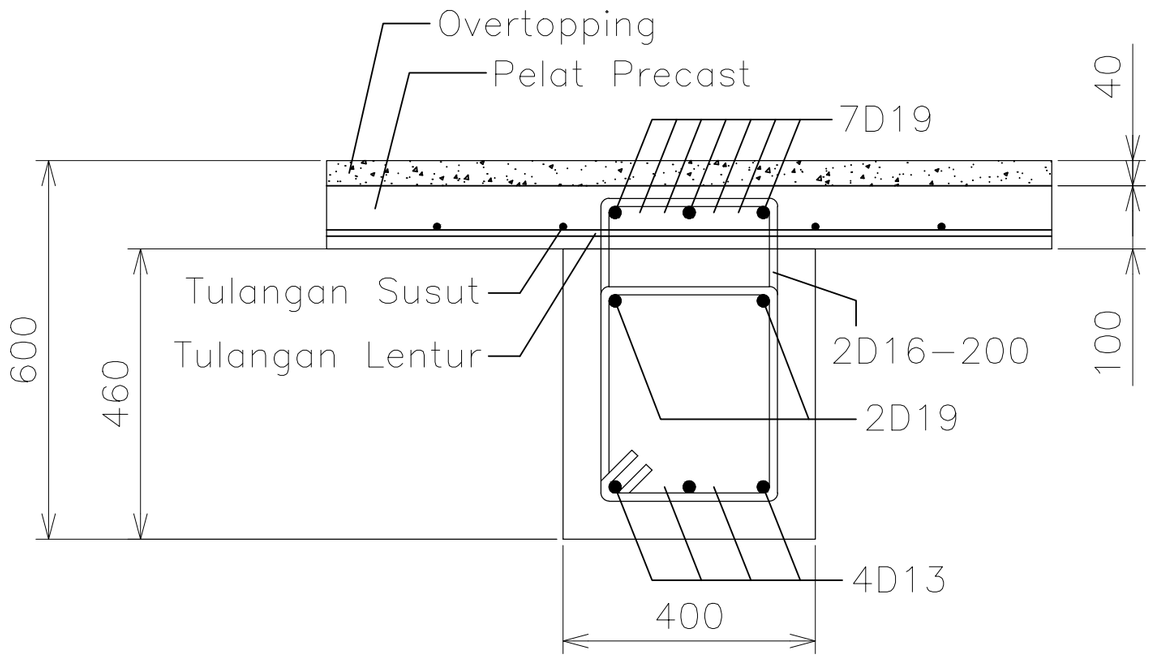
SKALA GAMBAR

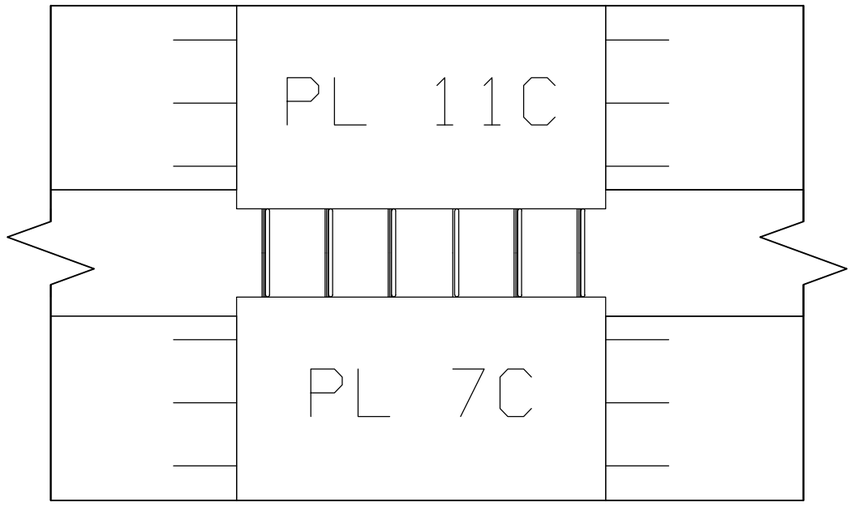
1 : 20

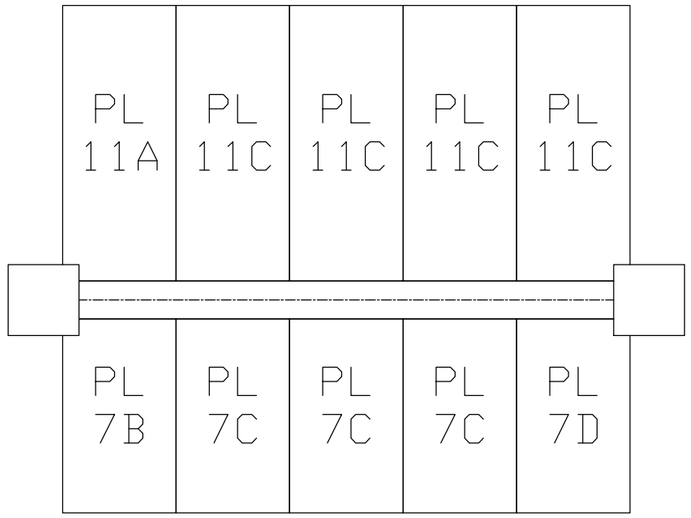
CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	60	







SAMBUNGAN BALOK - PELAT TITIK C
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

SAMBUNGAN BALOK - PELAT TITIK C

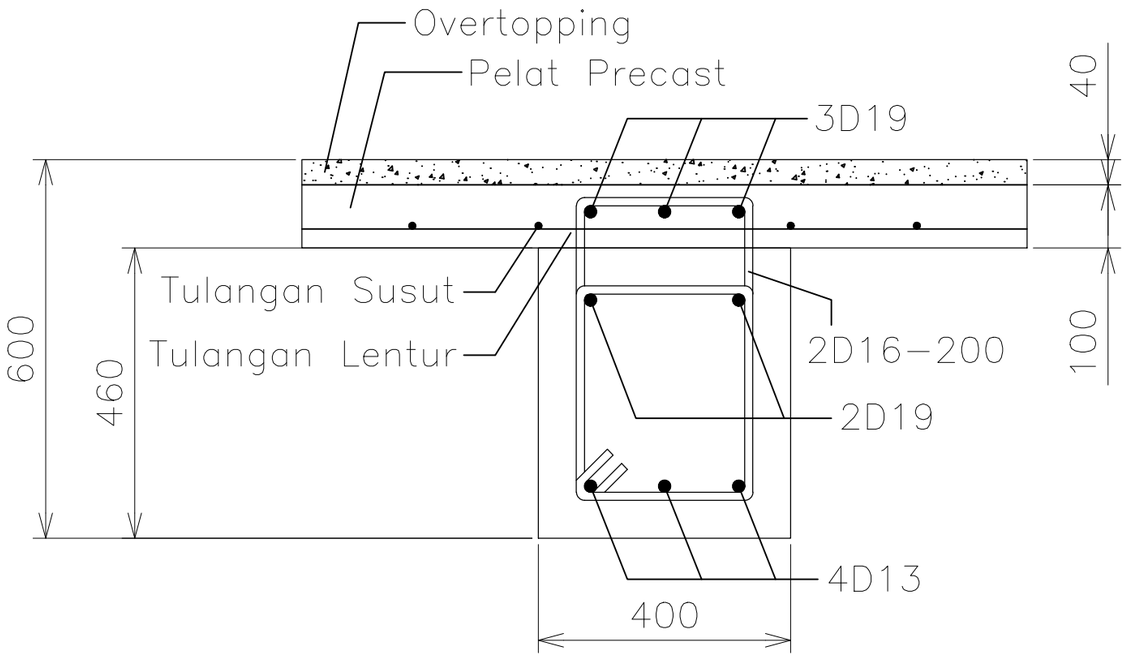
SKALA GAMBAR

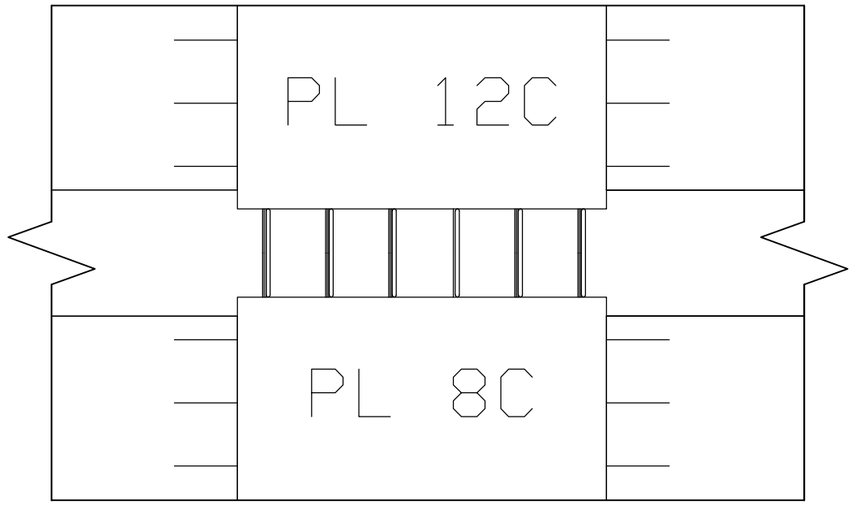
1 : 20

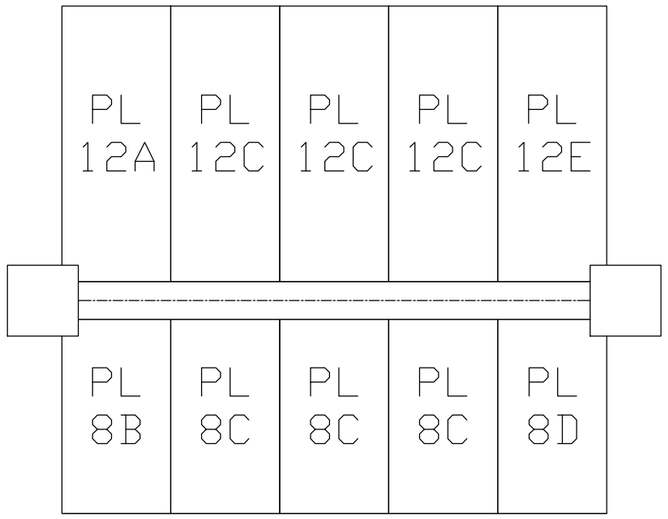
CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	61	







SAMBUNGAN BALOK - PELAT TITIK D
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

SAMBUNGAN BALOK - PELAT TITIK D

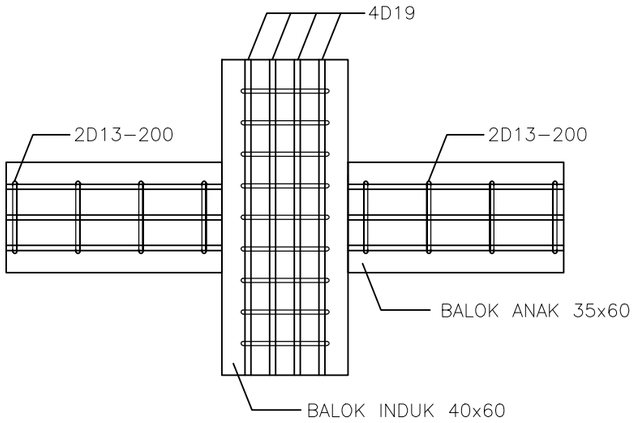
SKALA GAMBAR

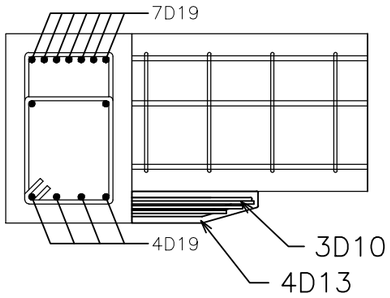
1 : 20

CATATAN

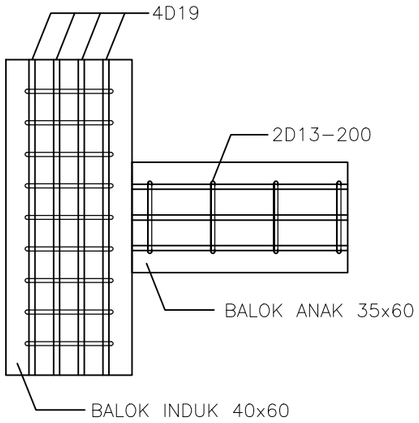
Satuan gambar menggunakan mm

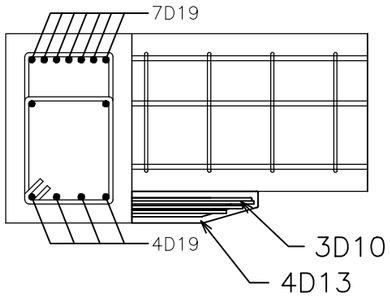
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	62	





SAMBUNGAN BI - BA TITIK 1
SKALA 1:20





SAMBUNGAN BI - BA TITIK 2
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

SAMBUNGAN BI - BA TITIK 1
SAMBUNGAN BI - BA TITIK 2

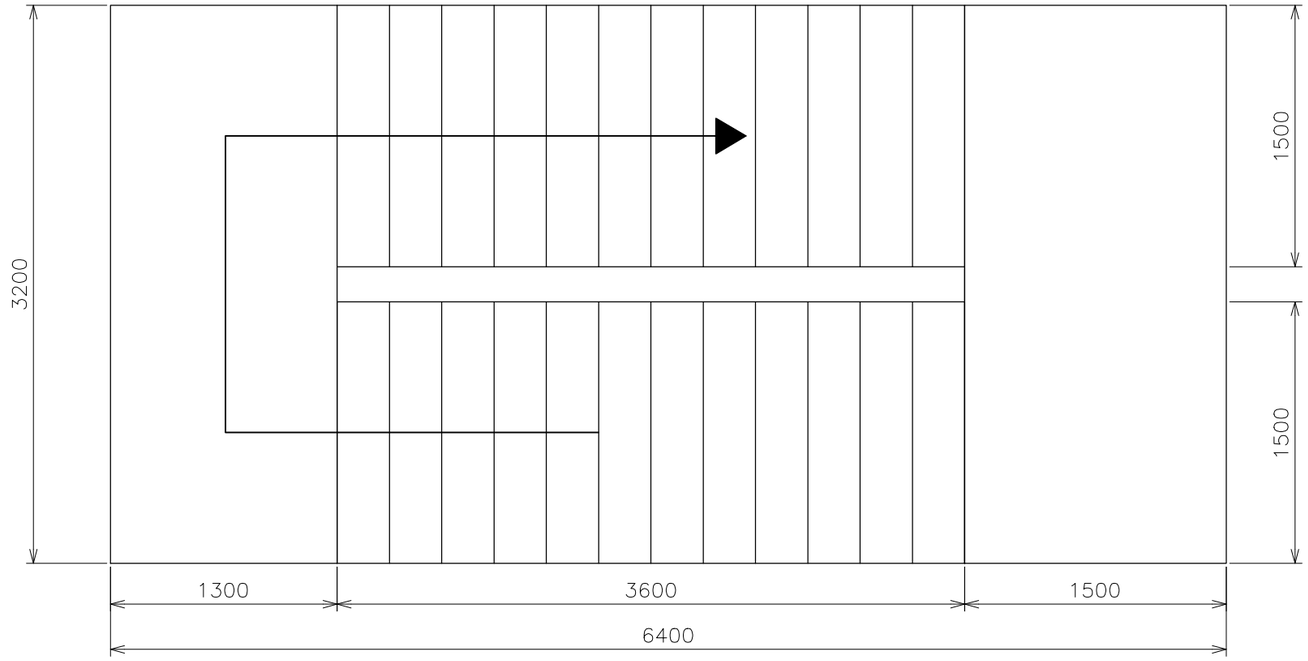
SKALA GAMBAR

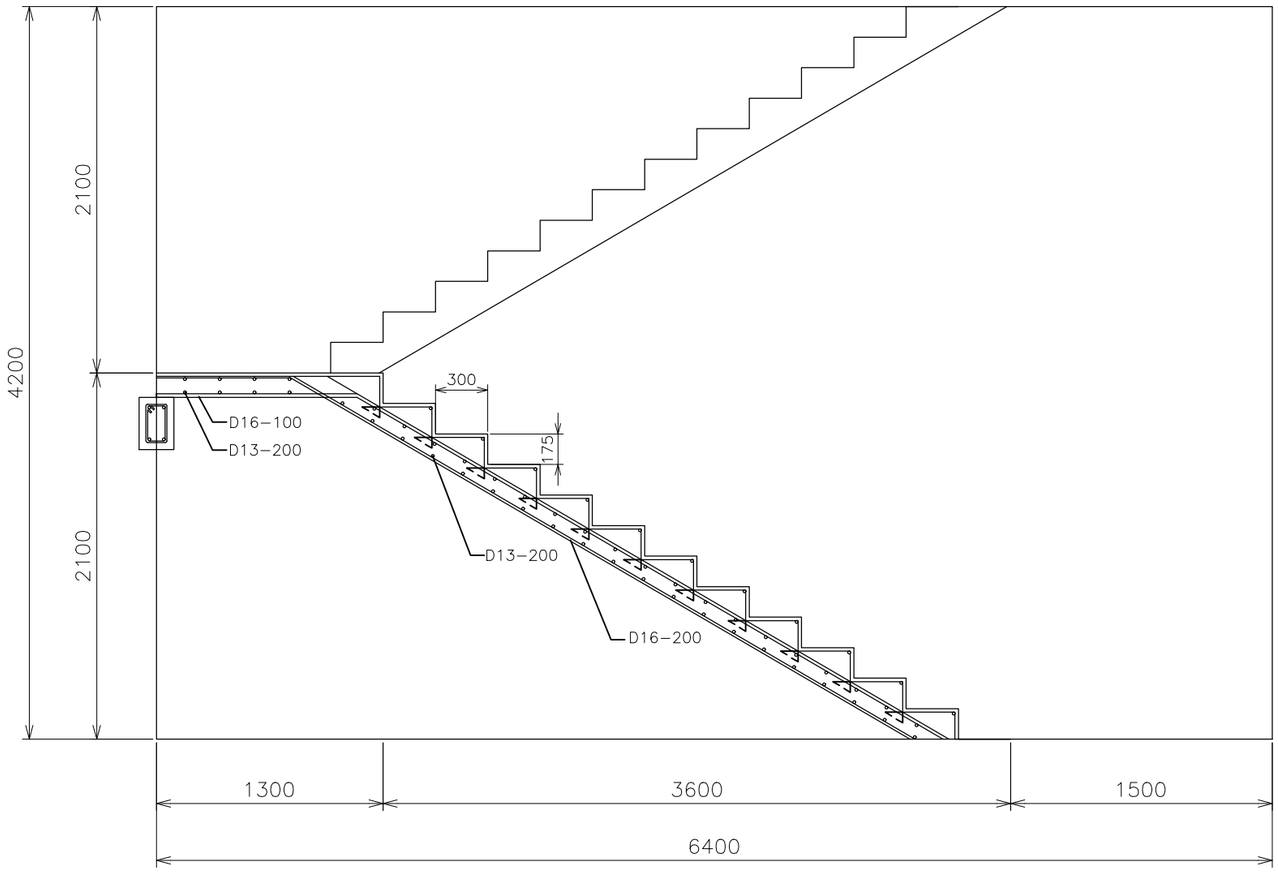
1 : 20

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	63	





DENAH & PENULANGAN TANGGA TYPE 1
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
FAKULTAS TEKNIK
UNIVERSITAS MUHAMMADIYAH GRESIK

JUDUL TUGAS AKHIR

MODIFIKASI & PERENCANAAN SAMAVIEW APARTMENT DENGAN MENGGUNAKAN METODE BETON PRACETAK

DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN TANGGA TYPE 1

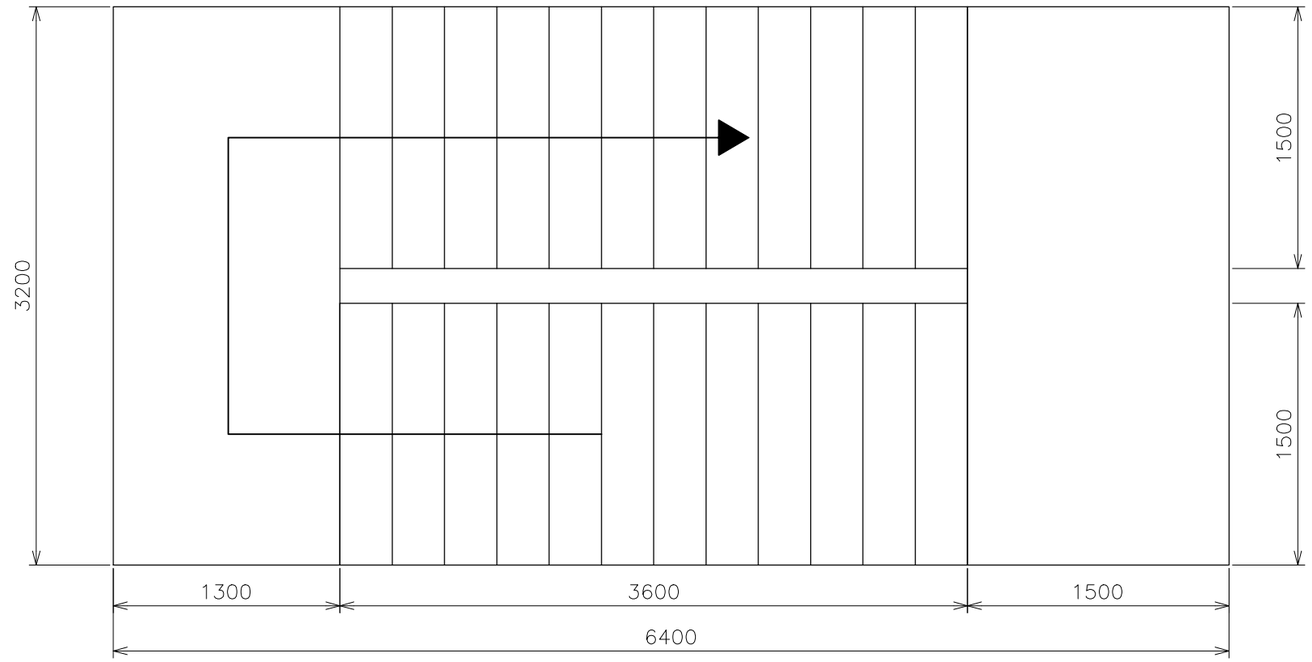
SKALA GAMBAR

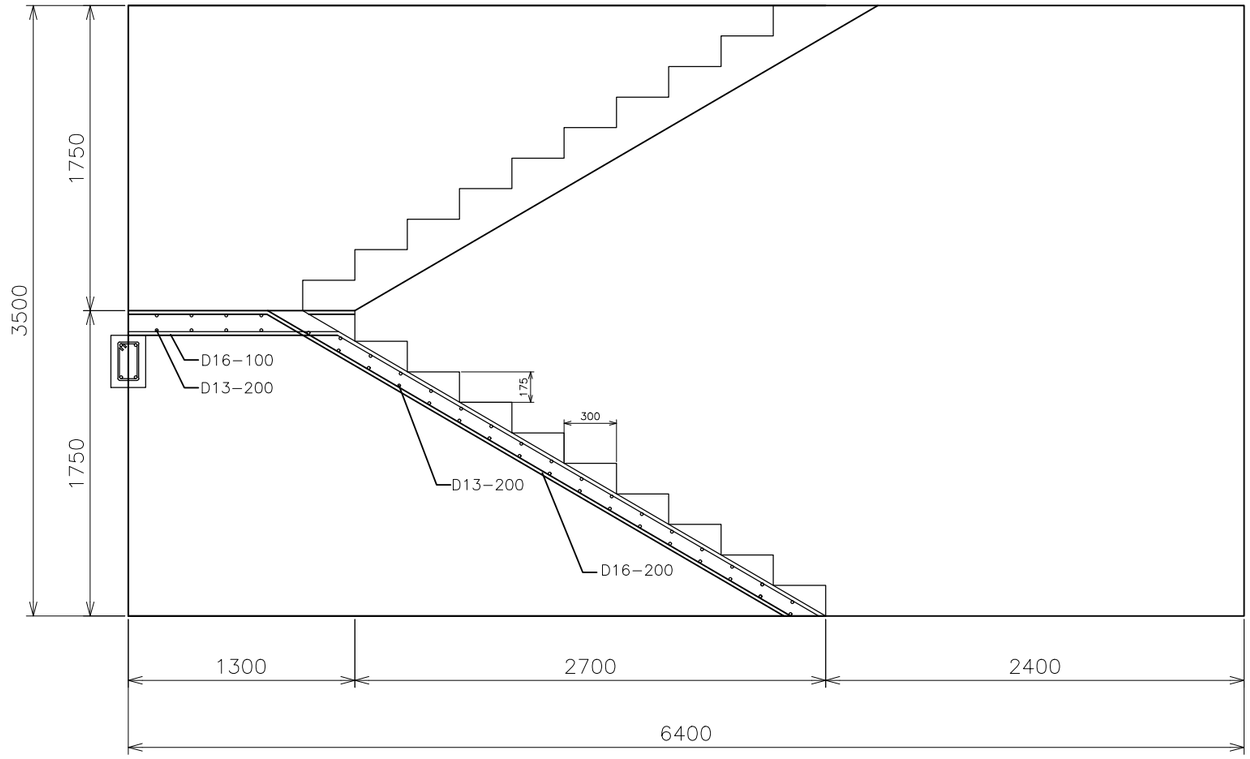
1 : 20

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	64	





DENAH & PENULANGAN TANGGA TYPE 2
SKALA 1:20

PROGRAM STUDI TEKNIK SIPIL
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JUDUL TUGAS AKHIR

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DOSEN PEMBIMBING

RAHMAT DWI SUTRISNO, S .ST., M.T.

MAHASISWA

NAMA : YOGI MAULANA ZIYAUL HAQ
NIM : 210607019

JUDUL GAMBAR

DETAIL PENULANGAN TANGGA TYPE 2

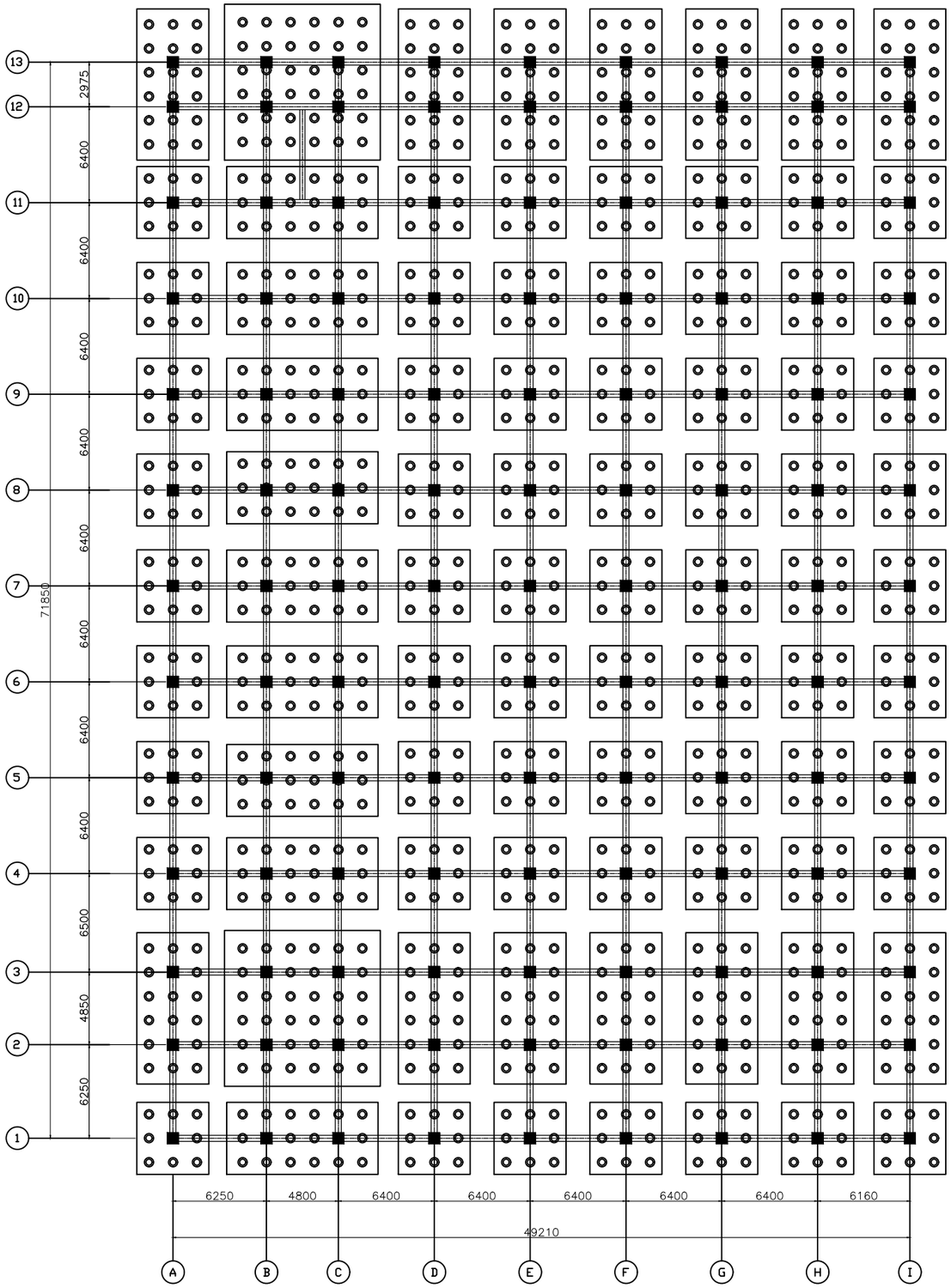
SKALA GAMBAR

1 : 20

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	65	



DENAH PONDASI
SKALA 1:100

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JUDUL GAMBAR

DENAH PONDASI

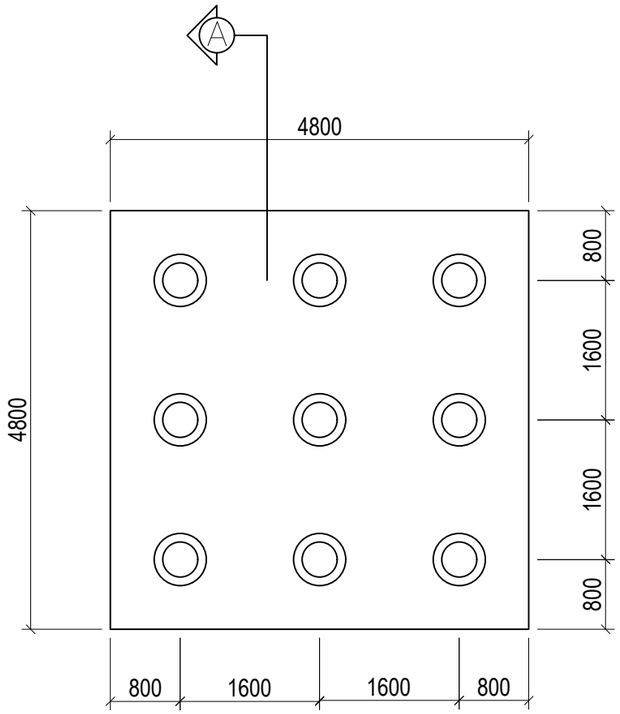
SKALA GAMBAR

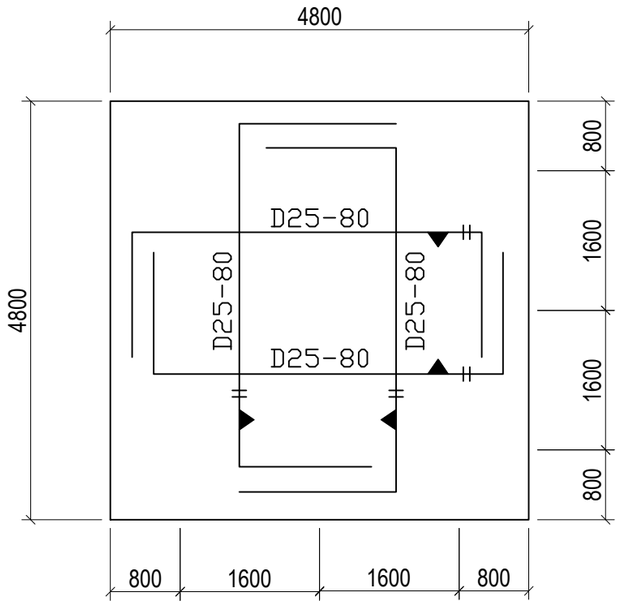
1 : 100

CATATAN

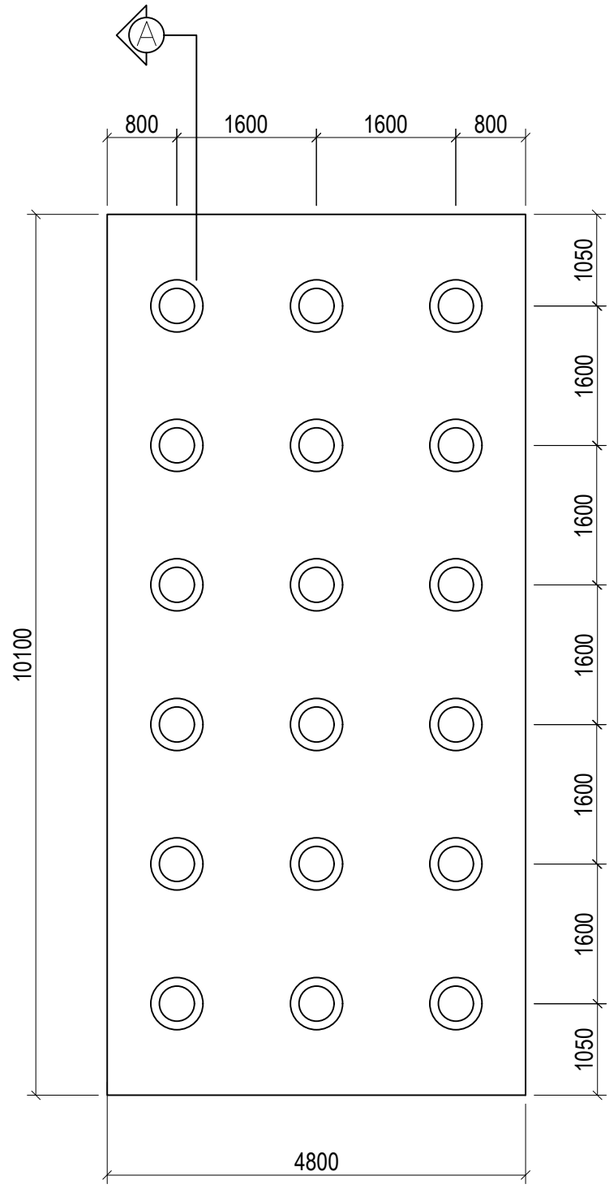
Satuan gambar menggunakan mm

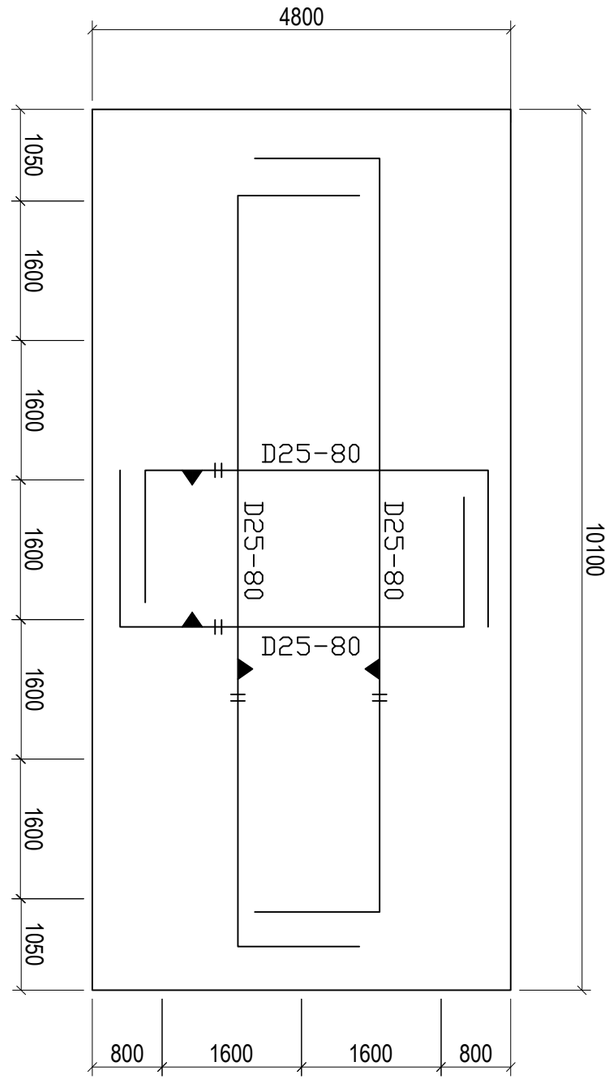
KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	66	





POER TIPE 1
SKALA 1:100





POER TIPE 2
SKALA 1:100

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JUDUL GAMBAR

POER TIPE 1 & TIPE 2

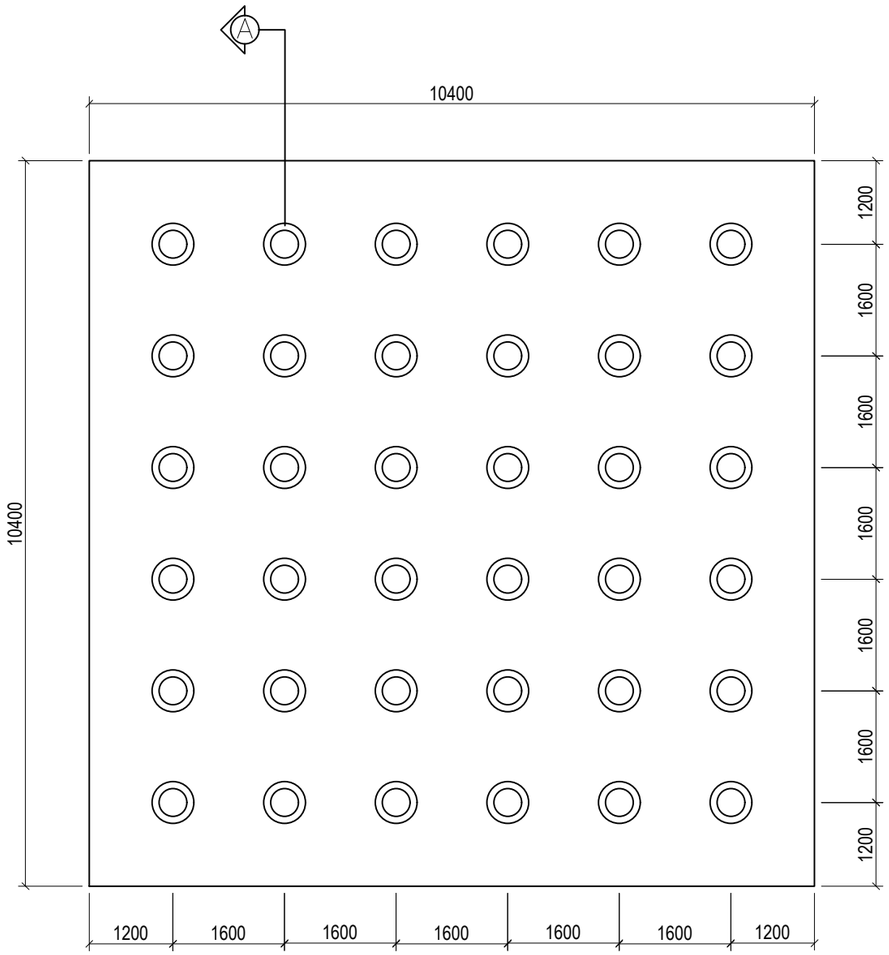
SKALA GAMBAR

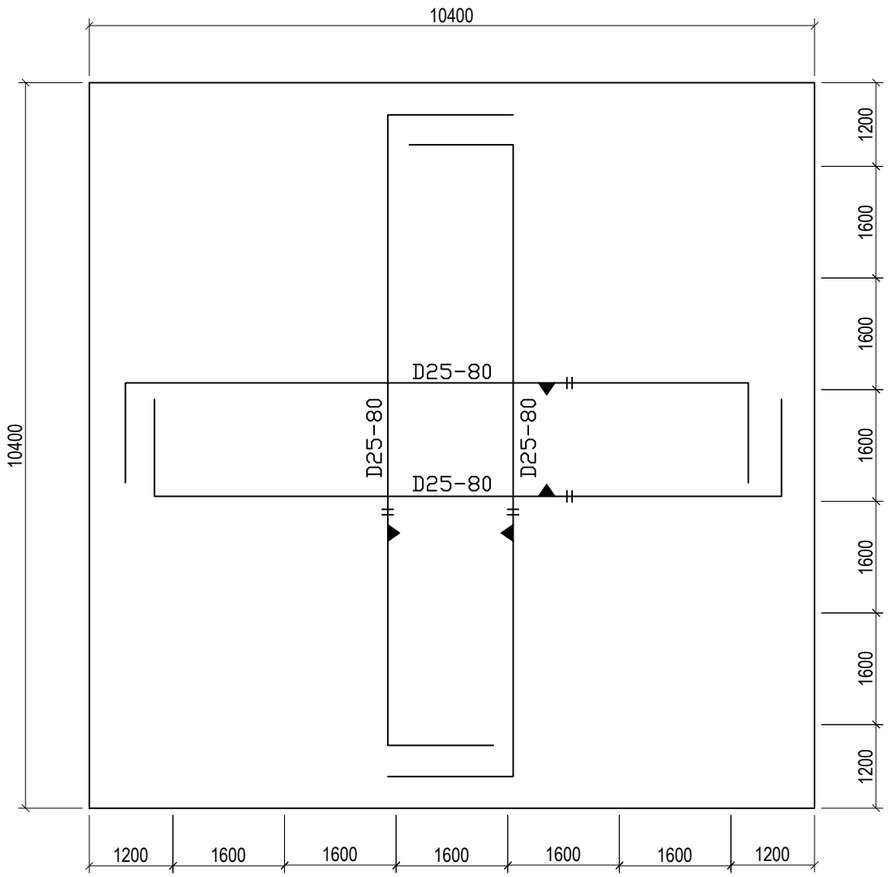
1 : 100

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	67	





POER TIPE 3
SKALA 1:100

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JUDUL TUGAS AKHIR

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MAHASISWA

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NIM : 210607019

JUDUL GAMBAR

POER TIPE 3

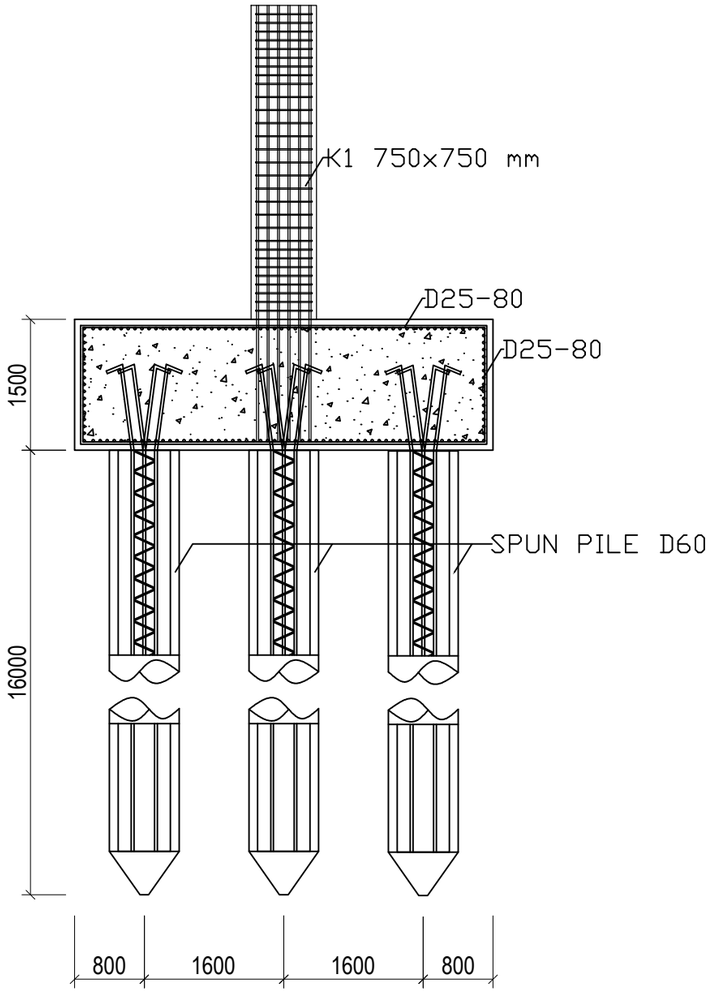
SKALA GAMBAR

1 : 100

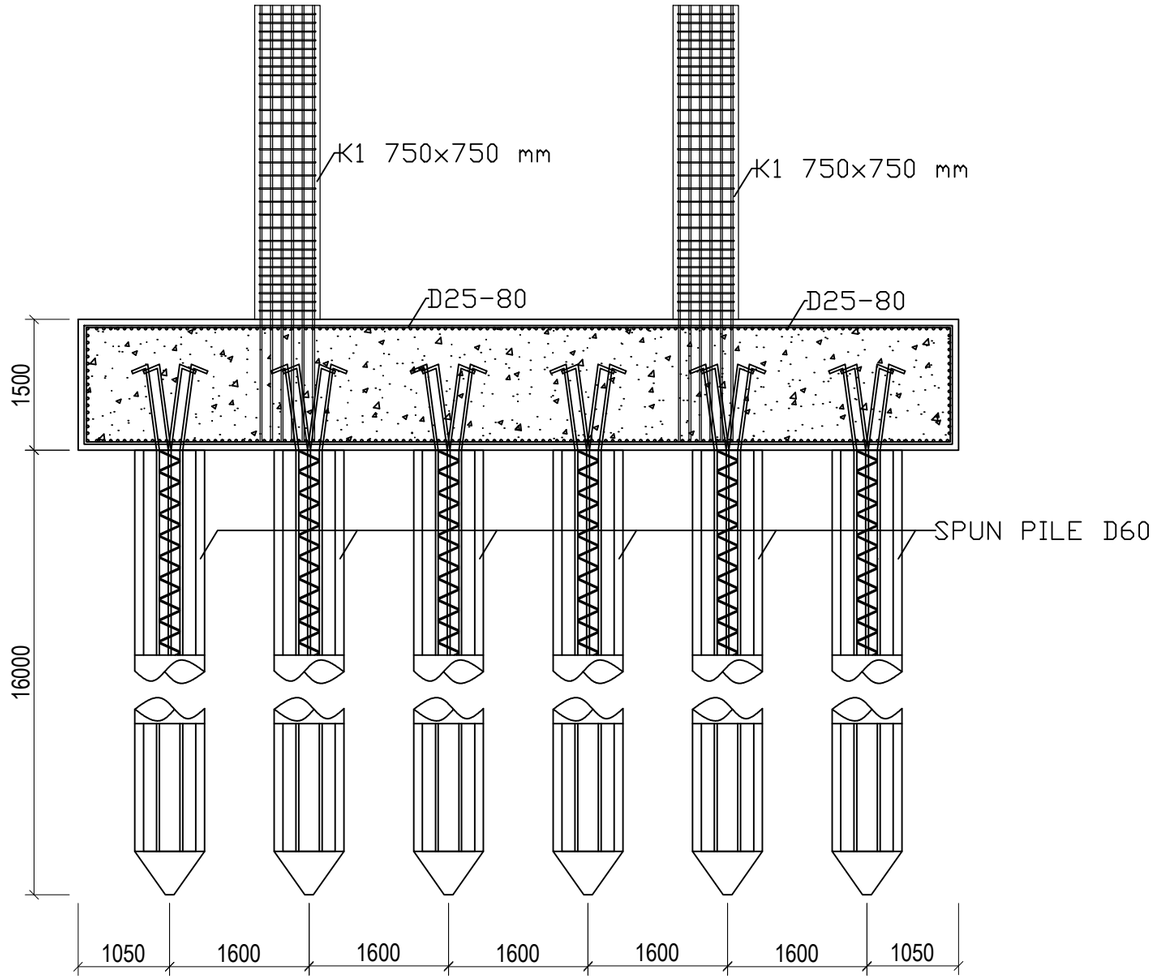
CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	68	



POT A POER TIPE 1
SKALA 1:100



POT A POER TIPE 2
SKALA 1:100

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JUDUL GAMBAR

POT A POER TIPE 1 & TIPE 2

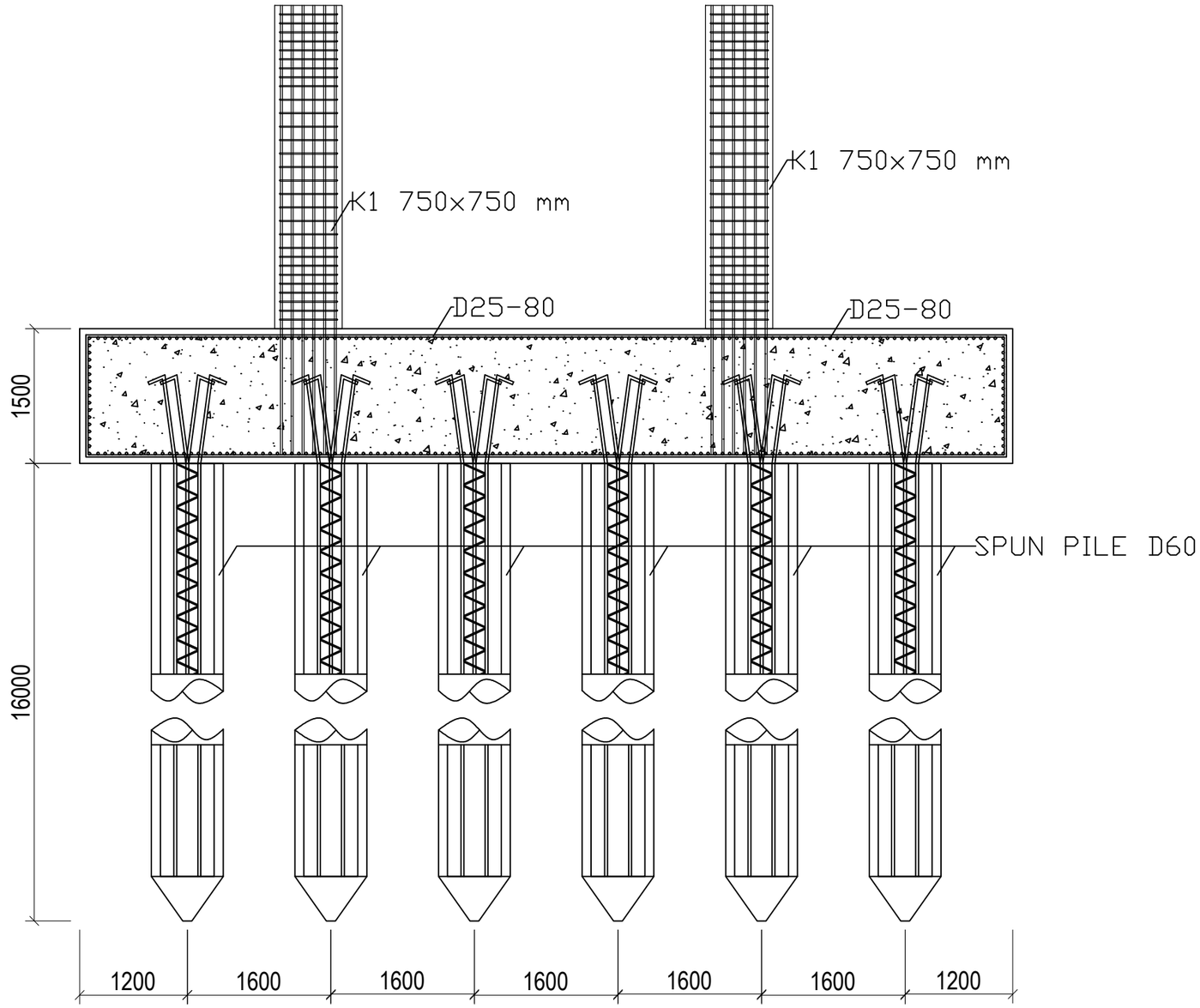
SKALA GAMBAR

1 : 100

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	69	



POT A POER TIPE 3
SKALA 1:100

PROGRAM STUDI TEKNIK SIPIL
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JUDUL GAMBAR

POT A POER TIPE 3

SKALA GAMBAR

1 : 100

CATATAN

Satuan gambar menggunakan mm

KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
STR	70	