

CONE PENETRATION TEST

Titik 6 (2500-3000 m)

CPT 2

Depth (m)	C (C _w) (kg/cm)	C+F (T _w) (kg/cm)	LF (kg/cm)	TF (kg/cm')	ΣTF (kg/cm')	F (K _w)	q _c (kg/cm ²)	f _s (kg/cm ²)	f _s x 20cm (kg/cm ²)	Σ (f _s x 20cm)	R _f Friction	Q _u (kg/cm ²)	Klasifikasi Tanah	Jenis Tanah
0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	Standar	Lempung
0.2	5	7	0,20	4	4	2	4	0.13	2.68	2.68	3.35	0.08	Standar	Lempung
0.4	13	16	0,30	6	10	3	12	0.20	4.02	6.69	1.67	0.25	Standar	Lanau Sedikit Berlempung
0.6	21	24	0,30	6	16	3	20	0.20	4.02	10.71	1.00	0.42	Standar	Lanau Berpasir
0.8	15	18	0,30	6	22	3	14	0.20	4.02	14.72	1.43	0.30	Standar	Lanau Berlempung
1	11	14	0,30	6	28	3	10	0.20	4.02	18.74	2.01	0.21	Standar	Lanau Sedikit Berlempung
1.2	18	21	0,30	6	34	3	17	0.20	4.02	22.75	1.18	0.36	Standar	Lanau Berlempung
1.4	40	43	0,30	6	40	3	39	0.20	4.02	26.77	0.51	0.83	Standar	Pasir Berlanau
1.6	34	37	0,30	6	46	3	33	0.20	4.02	30.78	0.61	0.70	Standar	Pasir Berlanau
1.8	26	29	0,30	6	52	3	25	0.20	4.02	34.80	0.80	0.53	Standar	Lanau Berpasir
2	31	34	0,30	6	58	3	30	0.20	4.02	38.81	0.67	0.64	Standar	Pasir Berlanau
2.2	30	33	0,30	6	64	3	29	0.20	4.02	42.83	0.69	0.62	Standar	Lanau Berpasir
2.4	44	47	0,30	6	70	3	43	0.20	4.02	46.84	0.47	0.91	Standar	Pasir Berlanau
2.6	39	42	0,30	6	76	3	38	0.20	4.02	50.86	0.53	0.81	Standar	Pasir Berlanau
2.8	86	89	0,30	6	82	3	85	0.20	4.02	54.87	0.24	1.80	Standar	Pasir
3	28	31	0,30	6	88	3	27	0.20	4.02	58.89	0.74	0.57	Standar	Lanau Berpasir
3.2	51	54	0,30	6	94	3	50	0.20	4.02	62.90	0.40	1.06	Standar	Pasir Sedikit Berlanau
3.4	36	39	0,30	6	100	3	35	0.20	4.02	66.92	0.57	0.74	Standar	Pasir Berlanau
3.6	32	35	0,30	6	106	3	31	0.20	4.02	70.93	0.65	0.66	Standar	Pasir Berlanau
3.8	58	61	0,30	6	112	3	57	0.20	4.02	74.95	0.35	1.21	Standar	Pasir Sedikit Berlanau
4	90	93	0,30	6	118	3	89	0.20	4.02	78.96	0.23	1.89	Standar	Pasir
4.2	87	90	0,30	6	124	3	86	0.20	4.02	82.98	0.23	1.82	Standar	Pasir
4.4	109	112	0,30	6	130	3	108	0.20	4.02	86.99	0.19	2.29	Standar	Pasir
4.6	134	137	0,30	6	136	3	133	0.20	4.02	91.01	0.15	2.82	Standar	Pasir
4.8	143	146	0,30	6	142	3	142	0.20	4.02	95.02	0.14	3.01	Standar	Pasir
5	175	178	0,30	6	148	3	174	0.20	4.02	99.04	0.12	3.69	Standar	Pasir Berkerikil
5.2	189	192	0,30	6	154	3	188	0.20	4.02	103.05	0.11	3.99	Standar	Pasir Berkerikil
5.4	246	250	0,40	8	162	4	245	0.27	5.35	108.41	0.11	5.20	Standar	Pasir Berkerikil
5.6	250	250	0,00	0	162	0	249	0.00	0.00	108.41	0.00	5.28	Standar	Pasir Berkerikil

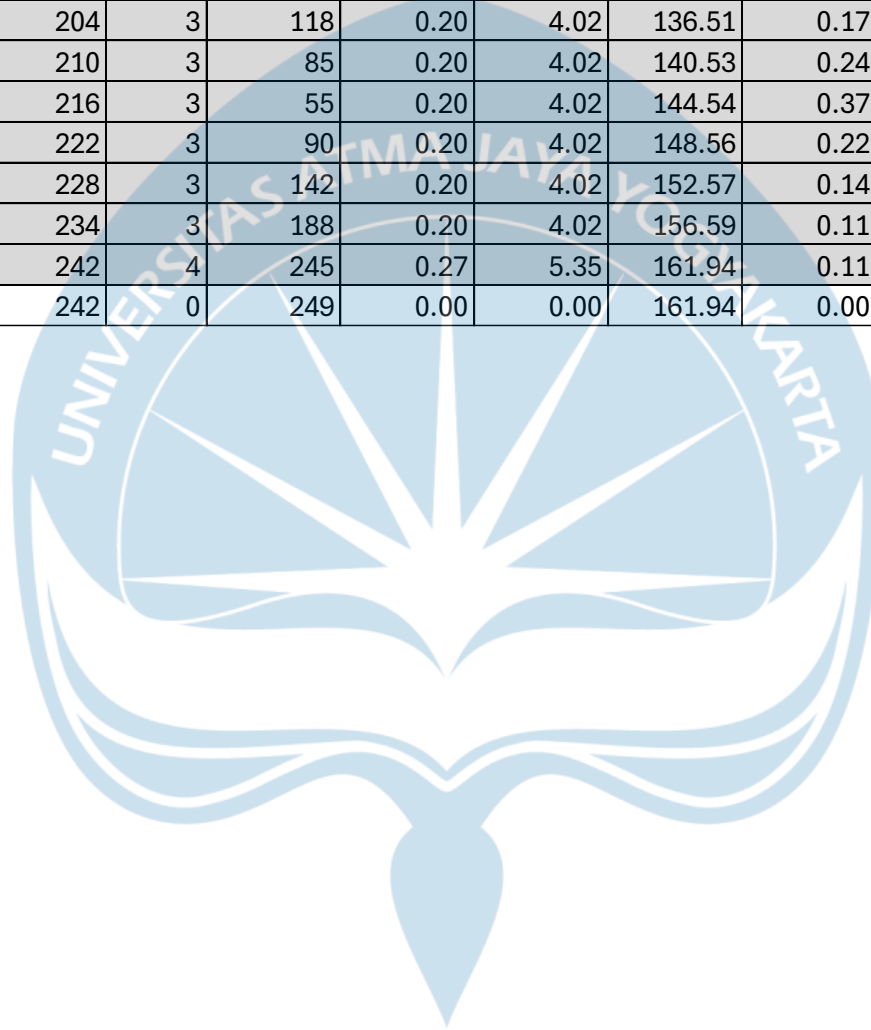
CONE PENETRATION TEST

Titik 6 (2500-3000 m)

CPT 3

Depth (m)	C (C _w) (kg/cm)	C+F (T _w) (kg/cm)	LF (kg/cm)	TF (kg/cm')	ΣTF (kg/cm')	F (K _w)	q _c (kg/cm ²)	f _s (kg/cm ²)	f _s x 20cm (kg/cm ²)	Σ (f _s x 20cm)	R _f Friction	Q _u (kg/cm ²)	Klasifikasi Tanah	Jenis Tanah
0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	Standar	Lempung
0.2	7	9	0,20	4	4	2	6	0.13	2.68	2.68	2.23	0.13	Standar	Lempung
0.4	12	15	0,30	6	10	3	11	0.20	4.02	6.69	1.83	0.23	Standar	Lanau Sedikit Berlempung
0.6	28	31	0,30	6	16	3	27	0.20	4.02	10.71	0.74	0.57	Standar	Lanau Berpasir
0.8	11	15	0,40	8	24	4	10	0.27	5.35	16.06	2.68	0.21	Standar	Lempung
1	9	12	0,30	6	30	3	8	0.20	4.02	20.08	2.51	0.17	Standar	Lempung
1.2	16	19	0,30	6	36	3	15	0.20	4.02	24.09	1.34	0.32	Standar	Lanau Berlempung
1.4	20	23	0,30	6	42	3	19	0.20	4.02	28.11	1.06	0.40	Standar	Lanau Berlempung
1.6	12	15	0,30	6	48	3	11	0.20	4.02	32.12	1.83	0.23	Standar	Lanau Sedikit Berlempung
1.8	14	17	0,30	6	54	3	13	0.20	4.02	36.14	1.54	0.28	Standar	Lanau Sedikit Berlempung
2	13	16	0,30	6	60	3	12	0.20	4.02	40.15	1.67	0.25	Standar	Lanau Sedikit Berlempung
2.2	21	24	0,30	6	66	3	20	0.20	4.02	44.17	1.00	0.42	Standar	Lanau Berpasir
2.4	19	22	0,30	6	72	3	18	0.20	4.02	48.18	1.12	0.38	Standar	Lanau Berlempung
2.6	12	15	0,30	6	78	3	11	0.20	4.02	52.20	1.83	0.23	Standar	Lanau Sedikit Berlempung
2.8	18	21	0,30	6	84	3	17	0.20	4.02	56.21	1.18	0.36	Standar	Lanau Berlempung
3	23	26	0,30	6	90	3	22	0.20	4.02	60.23	0.91	0.47	Standar	Lanau Berpasir
3.2	31	34	0,30	6	96	3	30	0.20	4.02	64.24	0.67	0.64	Standar	Pasir Berlanau
3.4	29	32	0,30	6	102	3	28	0.20	4.02	68.26	0.72	0.59	Standar	Lanau Berpasir
3.6	11	14	0,30	6	108	3	10	0.20	4.02	72.27	2.01	0.21	Standar	Lanau Sedikit Berlempung
3.8	54	57	0,30	6	114	3	53	0.20	4.02	76.29	0.38	1.12	Standar	Pasir Sedikit Berlanau
4	113	116	0,30	6	120	3	112	0.20	4.02	80.30	0.18	2.38	Standar	Pasir
4.2	149	152	0,30	6	126	3	148	0.20	4.02	84.32	0.14	3.14	Standar	Pasir
4.4	126	129	0,30	6	132	3	125	0.20	4.02	88.33	0.16	2.65	Standar	Pasir
4.6	89	92	0,30	6	138	3	88	0.20	4.02	92.35	0.23	1.87	Standar	Pasir
4.8	44	47	0,30	6	144	3	43	0.20	4.02	96.36	0.47	0.91	Standar	Pasir Berlanau
5	56	59	0,30	6	150	3	55	0.20	4.02	100.38	0.37	1.17	Standar	Pasir Sedikit Berlanau
5.2	32	35	0,30	6	156	3	31	0.20	4.02	104.39	0.65	0.66	Standar	Pasir Berkerikil
5.4	34	37	0,30	6	162	3	33	0.20	4.02	108.41	0.61	0.70	Standar	Pasir Berlanau
5.6	38	41	0,30	6	168	3	37	0.20	4.02	112.42	0.54	0.79	Standar	Pasir Berkerikil
5.8	51	54	0,30	6	174	3	50	0.20	4.02	116.44	0.40	1.06	Standar	Pasir Sedikit Berlanau

6	18	21	0,30	6	180	3	17	0.20	4.02	120.45	1.18	0.36	Standar	Lanau Berlempung
6.2	24	27	0,30	6	186	3	23	0.20	4.02	124.47	0.87	0.49	Standar	Lanau Berpasir
6.4	23	26	0,30	6	192	3	22	0.20	4.02	128.48	0.91	0.47	Standar	Lanau Berpasir
6.6	26	29	0,30	6	198	3	25	0.20	4.02	132.50	0.80	0.53	Standar	Lanau Berpasir
6.8	119	122	0,30	6	204	3	118	0.20	4.02	136.51	0.17	2.50	Standar	Pasir
7	86	89	0,30	6	210	3	85	0.20	4.02	140.53	0.24	1.80	Standar	Pasir
7.2	56	59	0,30	6	216	3	55	0.20	4.02	144.54	0.37	1.17	Standar	Pasir Sedikit Berlanau
7.4	91	94	0,30	6	222	3	90	0.20	4.02	148.56	0.22	1.91	Standar	Pasir
7.6	143	146	0,30	6	228	3	142	0.20	4.02	152.57	0.14	3.01	Standar	Pasir
7.8	189	192	0,30	6	234	3	188	0.20	4.02	156.59	0.11	3.99	Standar	Pasir Berkerikil
8	246	250	0,40	8	242	4	245	0.27	5.35	161.94	0.11	5.20	Standar	Pasir Berkerikil
8.2	250	250	0,00	0	242	0	249	0.00	0.00	161.94	0.00	5.28	Standar	Pasir Berkerikil





PENURUNAN SEGERA (Si)

Perhitungan Penurunan Segera Segmen 1 (STA 0+000 – STA 0+050)

Kedalaman (m)	B (m)	H (m)	L/B	H/B	q (kN/m ²) Tekanan Kontak	Eu (kN/m ²) Modulus Elastis Tanah	Ip Faktor Pengaruh	μ Angka Poisson's Tanah	Si (m)
8	13	0.550	3.846	0.042	28.258	28044.786	0.133	0.269	0.0016
10	13	0.550	3.846	0.042	26.267	29100.208	0.133	0.273	0.0014
12	13	0.550	3.846	0.042	24.332	25600.621	0.133	0.262	0.0015
14	13	0.550	3.846	0.042	22.485	23359.079	0.133	0.254	0.0016
16	13	0.550	3.846	0.042	20.750	22343.159	0.133	0.251	0.0015
18	13	0.550	3.846	0.042	19.135	34740.832	0.133	0.291	0.0009
20	13	0.550	3.846	0.042	17.645	31672.735	0.133	0.281	0.0009
22	13	0.550	3.846	0.042	16.278	29102.575	0.133	0.273	0.0009
24	13	0.550	3.846	0.042	15.029	26918.231	0.133	0.266	0.0009
26	13	0.550	3.846	0.042	13.891	25038.893	0.133	0.260	0.0009
Si									0.0121

Perhitungan Penurunan Segera Segmen 1 (STA 0+050 – STA 0+500)

Kedalaman (m)	B (m)	H (m)	L/B	H/B	q (kN/m ²) Tekanan Kontak	Eu (kN/m ²) Modulus Elastis Tanah	Ip Faktor Pengaruh	μ Angka Poisson's Tanah	Si (m)
8	13	0.550	3.846	0.042	27.394	28044.786	0.133	0.269	0.0016
10	13	0.550	3.846	0.042	25.464	29100.208	0.133	0.273	0.0014
12	13	0.550	3.846	0.042	23.588	25600.621	0.133	0.262	0.0015
14	13	0.550	3.846	0.042	21.798	23359.079	0.133	0.254	0.0015
16	13	0.550	3.846	0.042	20.115	22343.159	0.133	0.251	0.0015
18	13	0.550	3.846	0.042	18.550	34740.832	0.133	0.291	0.0008
20	13	0.550	3.846	0.042	17.106	31672.735	0.133	0.281	0.0009

Kedalaman (m)	B (m)	H (m)	L/B	H/B	q (kN/m ²) Tekanan Kontak	Eu (kN/m ²) Modulus Elastis Tanah	Ip Faktor Pengaruh	μ Angka Poisson's Tanah	Si (m)
22	13	0.550	3.846	0.042	15.780	29102.575	0.133	0.273	0.0009
24	13	0.550	3.846	0.042	14.570	26918.231	0.133	0.266	0.0009
26	13	0.550	3.846	0.042	13.466	25038.893	0.133	0.260	0.0009
Si									0.0117

Perhitungan Penurunan Segera Segmen 2 (STA 0+500 – STA 0+550)

Kedalaman (m)	B (m)	H (m)	L/B	H/B	q (kN/m ²) Tekanan Kontak	Eu (kN/m ²) Modulus Elastis Tanah	Ip Faktor Pengaruh	μ Angka Poisson's Tanah	Si (m)
10	13	0.550	3.846	0.042	69.620	45007.344	0.133	0.325	0.0024
12	13	0.550	3.846	0.042	64.490	39104.352	0.133	0.305	0.0026
14	13	0.550	3.846	0.042	59.597	35953.786	0.133	0.295	0.0026
16	13	0.550	3.846	0.042	54.996	32969.372	0.133	0.285	0.0026
18	13	0.550	3.846	0.042	50.717	29606.825	0.133	0.275	0.0027
20	13	0.550	3.846	0.042	46.768	26866.691	0.133	0.266	0.0028
Si									0.0157

Perhitungan Penurunan Segera Segmen 2 (STA 0+550 – STA 0+600)

Kedalaman (m)	B (m)	H (m)	L/B	H/B	q (kN/m ²) Tekanan Kontak	Eu (kN/m ²) Modulus Elastis Tanah	Ip Faktor Pengaruh	μ Angka Poisson's Tanah	Si (m)
10	13	0.550	3.846	0.042	60.651	45007.344	0.133	0.325	0.0021
12	13	0.550	3.846	0.042	56.182	39104.352	0.133	0.305	0.0022

[illegible]

Perhitungan Penurunan Segera Segmen 2 (STA 0+600 – STA 0+900)

[illegible]

Perhitungan Penurunan Segera Segmen 2 (STA 0+900 – STA 0+950)

[illegible]

Perhitungan Penurunan Segera Segmen 2 (STA 0+950 – STA 1+000)

[illegible]

Perhitungan Penurunan Segera Segmen 3 (STA 1+000 – STA 1+250)

Kedalaman (m)	B (m)	H (m)	L/B	H/B	q (kN/m ²) Tekanan Kontak	Eu (kN/m ²) Modulus Elastis Tanah	Ip Faktor Pengaruh	μ Angka Poisson's Tanah	Si (m)
0	13	0.550	3.846	0.042	26.399	0.000	0.133	0.178	0.0000
2	13	0.550	3.846	0.042	25.148	3351.354	0.133	0.189	0.0125
4	13	0.550	3.846	0.042	23.817	4103.663	0.133	0.192	0.0097
6	13	0.550	3.846	0.042	22.383	32975.049	0.133	0.286	0.0011
8	13	0.550	3.846	0.042	20.906	30919.995	0.133	0.279	0.0011
10	13	0.550	3.846	0.042	19.433	29399.635	0.133	0.274	0.0011
12	13	0.550	3.846	0.042	18.001	27122.281	0.133	0.266	0.0011
14	13	0.550	3.846	0.042	16.635	19854.998	0.133	0.243	0.0014
16	13	0.550	3.846	0.042	15.351	23396.238	0.133	0.254	0.0011
18	13	0.550	3.846	0.042	14.156	21805.737	0.133	0.249	0.0011
20	13	0.550	3.846	0.042	13.054	21223.968	0.133	0.247	0.0010
22	13	0.550	3.846	0.042	12.043	21078.518	0.133	0.247	0.0009
24	13	0.550	3.846	0.042	11.119	19643.321	0.133	0.242	0.0009
26	13	0.550	3.846	0.042	10.277	16858.513	0.133	0.233	0.0010
Si									0.0338

Perhitungan Penurunan Segera Segmen 3 (STA 1+250 – STA 1+300)

Kedalaman (m)	B (m)	H (m)	L/B	H/B	q (kN/m ²) Tekanan Kontak	Eu (kN/m ²) Modulus Elastis Tanah	Ip Faktor Pengaruh	μ Angka Poisson's Tanah	Si (m)
0	13	0.550	3.846	0.042	31.189	0.000	0.133	0.178	0.0000
2	13	0.550	3.846	0.042	29.712	3351.354	0.133	0.189	0.0148
4	13	0.550	3.846	0.042	28.139	4103.663	0.133	0.192	0.0114

Kedalaman (m)	B (m)	H (m)	L/B	H/B	q (kN/m ²) Tekanan Kontak	Eu (kN/m ²) Modulus Elastis Tanah	Ip Faktor Pengaruh	μ Angka Poisson's Tanah	Si (m)
6	13	0.550	3.846	0.042	26.445	32975.049	0.133	0.286	0.0013
8	13	0.550	3.846	0.042	24.699	30919.995	0.133	0.279	0.0013
10	13	0.550	3.846	0.042	22.959	29399.635	0.133	0.274	0.0012
12	13	0.550	3.846	0.042	21.267	27122.281	0.133	0.266	0.0013
14	13	0.550	3.846	0.042	19.654	19854.998	0.133	0.243	0.0016
16	13	0.550	3.846	0.042	18.136	23396.238	0.133	0.254	0.0013
18	13	0.550	3.846	0.042	16.725	21805.737	0.133	0.249	0.0012
20	13	0.550	3.846	0.042	15.423	21223.968	0.133	0.247	0.0012
22	13	0.550	3.846	0.042	14.228	21078.518	0.133	0.247	0.0011
24	13	0.550	3.846	0.042	13.137	19643.321	0.133	0.242	0.0011
26	13	0.550	3.846	0.042	12.142	16858.513	0.133	0.233	0.0012
Si									0.0399

Perhitungan Penurunan Segera Segmen 3 (STA 1+300 – STA 1+350)

Kedalaman (m)	B (m)	H (m)	L/B	H/B	q (kN/m ²) Tekanan Kontak	Eu (kN/m ²) Modulus Elastis Tanah	Ip Faktor Pengaruh	μ Angka Poisson's Tanah	Si (m)
0	13	0.550	3.846	0.042	29.900	0.000	0.133	0.178	0.0000
2	13	0.550	3.846	0.042	28.483	3351.354	0.133	0.189	0.0142
4	13	0.550	3.846	0.042	26.976	4103.663	0.133	0.192	0.0109
6	13	0.550	3.846	0.042	25.352	32975.049	0.133	0.286	0.0012
8	13	0.550	3.846	0.042	23.678	30919.995	0.133	0.279	0.0012
10	13	0.550	3.846	0.042	22.010	29399.635	0.133	0.274	0.0012
12	13	0.550	3.846	0.042	20.388	27122.281	0.133	0.266	0.0012

Kedalaman (m)	B (m)	H (m)	L/B	H/B	q (kN/m ²) Tekanan Kontak	Eu (kN/m ²) Modulus Elastis Tanah	I _p Faktor Pengaruh	μ Angka Poisson's Tanah	S _i (m)
14	13	0.550	3.846	0.042	18.841	19854.998	0.133	0.243	0.0015
16	13	0.550	3.846	0.042	17.386	23396.238	0.133	0.254	0.0012
18	13	0.550	3.846	0.042	16.034	21805.737	0.133	0.249	0.0012
20	13	0.550	3.846	0.042	14.785	21223.968	0.133	0.247	0.0011
22	13	0.550	3.846	0.042	13.640	21078.518	0.133	0.247	0.0011
24	13	0.550	3.846	0.042	12.593	19643.321	0.133	0.242	0.0010
26	13	0.550	3.846	0.042	11.640	16858.513	0.133	0.233	0.0011
Si									0.0383

Perhitungan Penurunan Segera Segmen 3 (STA 1+350 – STA 1+400)

Kedalaman (m)	B (m)	H (m)	L/B	H/B	q (kN/m ²) Tekanan Kontak	Eu (kN/m ²) Modulus Elastis Tanah	I _p Faktor Pengaruh	μ Angka Poisson's Tanah	S _i (m)
0	13	0.550	3.846	0.042	37.269	0.000	0.133	0.178	0.0000
2	13	0.550	3.846	0.042	35.504	3351.354	0.133	0.189	0.0177
4	13	0.550	3.846	0.042	33.625	4103.663	0.133	0.192	0.0136
6	13	0.550	3.846	0.042	31.600	32975.049	0.133	0.286	0.0015
8	13	0.550	3.846	0.042	29.514	30919.995	0.133	0.279	0.0015
10	13	0.550	3.846	0.042	27.435	29399.635	0.133	0.274	0.0015
12	13	0.550	3.846	0.042	25.413	27122.281	0.133	0.266	0.0015
14	13	0.550	3.846	0.042	23.485	19854.998	0.133	0.243	0.0019
16	13	0.550	3.846	0.042	21.672	23396.238	0.133	0.254	0.0015
18	13	0.550	3.846	0.042	19.986	21805.737	0.133	0.249	0.0015
20	13	0.550	3.846	0.042	18.429	21223.968	0.133	0.247	0.0014

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Perhitungan Penurunan Segera Segmen 4 (STA 1+500 – STA 1+700)

[illegible]

Perhitungan Penurunan Segera Segmen 4 (STA 1+700 – STA 1+750)

[illegible]

Perhitungan Penurunan Segera Segmen 4 (STA 1+750 – STA 1+800)

[illegible]

Perhitungan Penurunan Segera Segmen 4 (STA 1+800 – STA 1+900)

[illegible]

Perhitungan Penurunan Segera Segmen 4 (STA 1+900 – STA 1+950)

[illegible]

Perhitungan Penurunan Segera Segmen 4 (STA 1+950 – STA 2+000)

[illegible]

Perhitungan Penurunan Segera Segmen 5 (STA 2+000 – STA 2+050)

Kedalaman (m)	B (m)	H (m)	L/B	H/B	q (kN/m ²) Tekanan Kontak	Eu (kN/m ²) Modulus Elastis Tanah	Ip Faktor Pengaruh	μ Angka Poisson's Tanah	Si (m)
8	13	0.550	3.846	0.042	27.394	28044.786	0.133	0.269	0.0016
10	13	0.550	3.846	0.042	25.464	29100.208	0.133	0.273	0.0014
12	13	0.550	3.846	0.042	23.588	25600.621	0.133	0.262	0.0015
14	13	0.550	3.846	0.042	21.798	23359.079	0.133	0.254	0.0015
16	13	0.550	3.846	0.042	20.115	22343.159	0.133	0.251	0.0015
18	13	0.550	3.846	0.042	18.550	34740.832	0.133	0.291	0.0008
20	13	0.550	3.846	0.042	17.106	31672.735	0.133	0.281	0.0009
22	13	0.550	3.846	0.042	15.780	29102.575	0.133	0.273	0.0009
24	13	0.550	3.846	0.042	14.570	26918.231	0.133	0.266	0.0009
26	13	0.550	3.846	0.042	13.466	25038.893	0.133	0.260	0.0009
Si									0.0117

Perhitungan Penurunan Segera Segmen 5 (STA 2+050 – STA 2+100)

Kedalaman (m)	B (m)	H (m)	L/B	H/B	q (kN/m ²) Tekanan Kontak	Eu (kN/m ²) Modulus Elastis Tanah	Ip Faktor Pengaruh	μ Angka Poisson's Tanah	Si (m)
8	13	0.550	3.846	0.042	43.843	28044.786	0.133	0.269	0.0025
10	13	0.550	3.846	0.042	40.754	29100.208	0.133	0.273	0.0022
12	13	0.550	3.846	0.042	37.751	25600.621	0.133	0.262	0.0024
14	13	0.550	3.846	0.042	34.887	23359.079	0.133	0.254	0.0024
16	13	0.550	3.846	0.042	32.193	22343.159	0.133	0.251	0.0023

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Perhitungan Penurunan Segera Segmen 5 (STA 2+100 – STA 2+150)

[illegible]

Perhitungan Penurunan Segera Segmen 5 (STA 2+150 – STA 2+200)

Kedalaman (m)	B (m)	H (m)	L/B	H/B	q (kN/m ²) Tekanan Kontak	Eu (kN/m ²) Modulus Elastis Tanah	Ip Faktor Pengaruh	μ Angka Poisson's Tanah	Si (m)
8	13	0.550	3.846	0.042	40.997	28044.786	0.133	0.269	0.0023
10	13	0.550	3.846	0.042	38.108	29100.208	0.133	0.273	0.0021
12	13	0.550	3.846	0.042	35.300	25600.621	0.133	0.262	0.0022
14	13	0.550	3.846	0.042	32.622	23359.079	0.133	0.254	0.0023
16	13	0.550	3.846	0.042	30.104	22343.159	0.133	0.251	0.0022
18	13	0.550	3.846	0.042	27.761	34740.832	0.133	0.291	0.0013
20	13	0.550	3.846	0.042	25.600	31672.735	0.133	0.281	0.0013
22	13	0.550	3.846	0.042	23.616	29102.575	0.133	0.273	0.0013
24	13	0.550	3.846	0.042	21.805	26918.231	0.133	0.266	0.0013
26	13	0.550	3.846	0.042	20.153	25038.893	0.133	0.260	0.0013
Si									0.0175

Perhitungan Penurunan Segera Segmen 5 (STA 2+200 – STA 2+250)

Kedalaman (m)	B (m)	H (m)	L/B	H/B	q (kN/m ²) Tekanan Kontak	Eu (kN/m ²) Modulus Elastis Tanah	Ip Faktor Pengaruh	μ Angka Poisson's Tanah	Si (m)
8	13	0.550	3.846	0.042	59.810	28044.786	0.133	0.269	0.0034
10	13	0.550	3.846	0.042	55.596	29100.208	0.133	0.273	0.0030
12	13	0.550	3.846	0.042	51.500	25600.621	0.133	0.262	0.0032
14	13	0.550	3.846	0.042	47.592	23359.079	0.133	0.254	0.0033
16	13	0.550	3.846	0.042	43.918	22343.159	0.133	0.251	0.0032

[illegible]

Perhitungan Penurunan Segera Segmen 5 (STA 2+250 – STA 2+300)

Kedalaman (m)	B (m)	H (m)	L/B	H/B	q (kN/m ²) Tekanan Kontak	Eu (kN/m ²) Modulus Elastis Tanah	I _p Faktor Pengaruh	μ <i>Angka Poisson's Tanah</i>	S _i (m)
8	13	0.550	3.846	0.042	51.226	28044.786	0.133	0.269	0.0029
10	13	0.550	3.846	0.042	47.616	29100.208	0.133	0.273	0.0026
12	13	0.550	3.846	0.042	44.108	25600.621	0.133	0.262	0.0028
14	13	0.550	3.846	0.042	40.761	23359.079	0.133	0.254	0.0028
16	13	0.550	3.846	0.042	37.614	22343.159	0.133	0.251	0.0027
18	13	0.550	3.846	0.042	34.688	34740.832	0.133	0.291	0.0016
20	13	0.550	3.846	0.042	31.987	31672.735	0.133	0.281	0.0016
22	13	0.550	3.846	0.042	29.509	29102.575	0.133	0.273	0.0016
24	13	0.550	3.846	0.042	27.245	26918.231	0.133	0.266	0.0016
26	13	0.550	3.846	0.042	25.182	25038.893	0.133	0.260	0.0016
Si									0.0219

Perhitungan Penurunan Segera Segmen 5 (STA 2+300 – STA 2+500)

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The logo of Universitas Atma Jaya Yogyakarta is a light blue emblem. It features a stylized open book at the base, with a sunburst or starburst design rising from the center of the book. The sunburst has multiple points of varying lengths. Above the sunburst, the text "UNIVERSITAS ATMA JAYA YOGYAKARTA" is written in a semi-circle.

PENURUNAN KONSOLIDASI (Sc)

Perhitungan Penurunan Konsolidasi Segmen 1 (STA 0+000 – STA 0+050)

Kedalaman	γ_b	γ_{sat}	C_c	γ'	e_0	a	b	z	a/z	b/z	I	po'	Δp	$\Delta p + po'$	ΔSc
m	kN/m ³	kN/m ³		kN/m ³								kN/m ²	kN/m ²	kN/m ²	m
0	15.80	15.96	0.65	5.71	1.36	0.70	6.50	0	0.00	0.00	0.50	0.00	0.00	0.00	0.00
2	15.80	15.96	0.65	5.71	1.36	0.70	6.50	1	0.70	6.50	0.50	15.80	35.56	51.36	0.28
4	15.80	15.96	0.65	5.71	1.36	0.70	6.50	3	0.23	2.17	0.48	47.40	34.14	81.54	0.13
6	15.80	15.96	0.65	5.71	1.36	0.70	6.50	5	0.14	1.30	0.40	79.00	28.45	107.45	0.07
Sc															0.48

Perhitungan Penurunan Konsolidasi Segmen 1 (STA 0+050 – STA 0+500)

Kedalaman	γ_b	γ_{sat}	C_c	γ'	e_0	a	b	z	a/z	b/z	I	po'	Δp	$\Delta p + po'$	ΔSc
m	kN/m ³	kN/m ³		kN/m ³								kN/m ²	kN/m ²	kN/m ²	m
0	15.80	15.96	0.65	5.71	1.36	0.70	6.50	0	0.00	0.00	0.50	0.00	0.00	0.00	0.00
2	15.80	15.96	0.65	5.71	1.36	0.70	6.50	1	0.70	6.50	0.50	15.80	34.47	50.27	0.27
4	15.80	15.96	0.65	5.71	1.36	0.70	6.50	3	0.23	2.17	0.48	47.40	33.10	80.50	0.13
6	15.80	15.96	0.65	5.71	1.36	0.70	6.50	5	0.14	1.30	0.40	79.00	27.58	106.58	0.07
Sc															0.47

Perhitungan Penurunan Konsolidasi Segmen 2 (STA 0+500 – STA 0+550)

Kedalaman	γ_b	γ_{sat}	C_c	γ'	e_0	a	b	z	a/z	b/z	I	po'	Δp	$\Delta p + po'$	ΔSc
m	kN/m ³	kN/m ³		kN/m ³								kN/m ²	kN/m ²	kN/m ²	m
0	15.21	15.46	0.65	5.65	1.36	0.70	6.50	0	0.00	0.00	0.50	0.00	0.00	0.00	0.00
2	15.21	15.46	0.65	5.65	1.36	0.70	6.50	1	0.70	6.50	0.50	15.21	94.25	109.46	0.47
4	15.21	15.46	0.65	5.65	1.36	0.70	6.50	3	0.23	2.17	0.48	45.63	90.48	136.11	0.26
6	15.21	15.46	0.65	5.65	1.36	0.70	6.50	5	0.14	1.30	0.45	76.05	84.83	160.88	0.18

Perhitungan Penurunan Konsolidasi Segmen 2 (STA 0+900 – STA 0+950)

Kedalaman	γ_b	γ_{sat}	C_c	γ'	e_0	a	b	z	a/z	b/z	l	po'	Δp	$\Delta p + po'$	ΔSc
m	kN/m ³	kN/m ³		kN/m ³								kN/m ²	kN/m ²	kN/m ²	m
0	15.21	15.46	0.65	5.65	1.36	0.70	6.50	0	0.00	0.00	0.50	0.00	0.00	0.00	0.00
2	15.21	15.46	0.65	5.65	1.36	0.70	6.50	1	0.70	6.50	0.50	15.21	55.78	70.99	0.37
4	15.21	15.46	0.65	5.65	1.36	0.70	6.50	3	0.23	2.17	0.48	45.63	53.55	99.18	0.18
6	15.21	15.46	0.65	5.65	1.36	0.70	6.50	5	0.14	1.30	0.45	76.05	50.21	126.26	0.12
8	15.21	15.46	0.65	5.65	1.36	0.70	6.50	7	0.10	0.93	0.42	106.47	46.86	153.33	0.09
Sc															0.76

Perhitungan Penurunan Konsolidasi Segmen 2 (STA 0+950 – STA 1+000)

Kedalaman	γ_b	γ_{sat}	C_c	γ'	e_0	a	b	z	a/z	b/z	l	po'	Δp	$\Delta p + po'$	ΔSc
m	kN/m ³	kN/m ³		kN/m ³								kN/m ²	kN/m ²	kN/m ²	m
0	15.21	15.46	0.65	5.65	1.36	0.70	6.50	0	0.00	0.00	0.50	0.00	0.00	0.00	0.00
2	15.21	15.46	0.65	5.65	1.36	0.70	6.50	1	0.70	6.50	0.50	15.21	36.10	51.31	0.29
4	15.21	15.46	0.65	5.65	1.36	0.70	6.50	3	0.23	2.17	0.48	45.63	34.66	80.29	0.13
6	15.21	15.46	0.65	5.65	1.36	0.70	6.50	5	0.14	1.30	0.45	76.05	32.49	108.54	0.08
8	15.21	15.46	0.65	5.65	1.36	0.70	6.50	7	0.10	0.93	0.42	106.47	30.32	136.79	0.06
Sc															0.57

Perhitungan Penurunan Konsolidasi Segmen 4 (STA 1+500 – STA 1+700)

Kedalaman	γ_b	γ_{sat}	C_c	γ'	e_0	a	b	z	a/z	b/z	l	po'	Δp	$\Delta p + po'$	ΔSc
m	kN/m ³	kN/m ³		kN/m ³								kN/m ²	kN/m ²	kN/m ²	m
0	15.21	15.46	0.65	5.65	1.36	0.70	6.50	0	0.00	0.00	0.50	0.00	0.00	0.00	0.00
2	15.21	15.46	0.65	5.65	1.36	0.70	6.50	1	0.70	6.50	0.50	15.21	36.10	51.31	0.29

Perhitungan Penurunan Konsolidasi Segmen 4 (STA 1+800 – STA 1+900)

Kedalaman	γ_b	γ_{sat}	C_c	γ'	e_0	a	b	z	a/z	b/z	l	po'	Δp	$\Delta p + po'$	ΔSc
m	kN/m ³	kN/m ³		kN/m ³								kN/m ²			
0	15.21	15.46	0.65	5.65	1.36	0.70	6.50	0	0.00	0.00	0.50	0.00	0.00	0.00	0.00
2	15.21	15.46	0.65	5.65	1.36	0.70	6.50	1	0.70	6.50	0.50	15.21	36.10	51.31	0.29
4	15.21	15.46	0.65	5.65	1.36	0.70	6.50	3	0.23	2.17	0.48	45.63	34.66	80.29	0.13
6	15.21	15.46	0.65	5.65	1.36	0.70	6.50	5	0.14	1.30	0.45	76.05	32.49	108.54	0.08
8	15.21	15.46	0.65	5.65	1.36	0.70	6.50	7	0.10	0.93	0.42	106.47	30.32	136.79	0.06
Sc															0.57

Perhitungan Penurunan Konsolidasi Segmen 4 (STA 1+900 – STA 1+950)

Kedalaman	γ_b	γ_{sat}	C_c	γ'	e_0	a	b	z	a/z	b/z	l	po'	Δp	$\Delta p + po'$	ΔSc
m	kN/m ³	kN/m ³		kN/m ³								kN/m ²			
0	15.21	15.46	0.65	5.65	1.36	0.70	6.50	0	0.00	0.00	0.50	0.00	0.00	0.00	0.00
2	15.21	15.46	0.65	5.65	1.36	0.70	6.50	1	0.70	6.50	0.50	15.21	55.78	70.99	0.37
4	15.21	15.46	0.65	5.65	1.36	0.70	6.50	3	0.23	2.17	0.48	45.63	53.55	99.18	0.18
6	15.21	15.46	0.65	5.65	1.36	0.70	6.50	5	0.14	1.30	0.45	76.05	50.21	126.26	0.12
8	15.21	15.46	0.65	5.65	1.36	0.70	6.50	7	0.10	0.93	0.42	106.47	46.86	153.33	0.09
Sc															0.76

Perhitungan Penurunan Konsolidasi Segmen 4 (STA 1+950 – STA 2+000)

Kedalaman	γ_b	γ_{sat}	C_c	γ'	e_0	a	b	z	a/z	b/z	l	po'	Δp	$\Delta p + po'$	ΔSc
m	kN/m ³	kN/m ³		kN/m ³								kN/m ²			
0	15.21	15.46	0.65	5.65	1.36	0.70	6.50	0	0.00	0.00	0.50	0.00	0.00	0.00	0.00
2	15.21	15.46	0.65	5.65	1.36	0.70	6.50	1	0.70	6.50	0.50	15.21	36.10	51.31	0.29

Perhitungan Penurunan Konsolidasi Segmen 5 (STA 2+100 – STA 2+150)

Kedalaman	γ_b	γ_{sat}	C_c	γ'	e_0	a	b	z	a/z	b/z	I	po'	Δp	$\Delta p + po'$	ΔSc
m	kN/m ³	kN/m ³		kN/m ³								kN/m ²	kN/m ²	kN/m ²	m
0	15.80	15.96	0.65	5.71	1.36	0.70	6.50	0	0.00	0.00	0.50	0.00	0.00	0.00	0.00
2	15.80	15.96	0.65	5.71	1.36	0.70	6.50	1	0.70	6.50	0.50	15.80	47.32	63.12	0.33
4	15.80	15.96	0.65	5.71	1.36	0.70	6.50	3	0.23	2.17	0.48	47.40	45.43	92.83	0.16
6	15.80	15.96	0.65	5.71	1.36	0.70	6.50	5	0.14	1.30	0.40	79.00	37.86	116.86	0.09
Sc															0.58

Perhitungan Penurunan Konsolidasi Segmen 5 (STA 2+150 – STA 2+200)

Kedalaman	γ_b	γ_{sat}	C_c	γ'	e_0	a	b	z	a/z	b/z	I	po'	Δp	$\Delta p + po'$	ΔSc
m	kN/m ³	kN/m ³		kN/m ³								kN/m ²	kN/m ²	kN/m ²	m
0	15.80	15.96	0.65	5.71	1.36	0.70	6.50	0	0.00	0.00	0.50	0.00	0.00	0.00	0.00
2	15.80	15.96	0.65	5.71	1.36	0.70	6.50	1	0.70	6.50	0.50	15.80	51.59	67.39	0.34
4	15.80	15.96	0.65	5.71	1.36	0.70	6.50	3	0.23	2.17	0.48	47.40	49.53	96.93	0.17
6	15.80	15.96	0.65	5.71	1.36	0.70	6.50	5	0.14	1.30	0.40	79.00	41.27	120.27	0.10
Sc															0.61

Perhitungan Penurunan Konsolidasi Segmen 5 (STA 2+200 – STA 2+250)

Kedalaman	γ_b	γ_{sat}	C_c	γ'	e_0	a	b	z	a/z	b/z	I	po'	Δp	$\Delta p + po'$	ΔSc
m	kN/m ³	kN/m ³		kN/m ³								kN/m ²	kN/m ²	kN/m ²	m
0	15.80	15.96	0.65	5.71	1.36	0.70	6.50	0	0.00	0.00	0.50	0.00		0.00	0.00
2	15.80	15.96	0.65	5.71	1.36	0.70	6.50	1	0.70	6.50	0.50	15.80	75.31	91.11	0.42

Perhitungan Penurunan Konsolidasi Segmen 6 (STA 2+500 – STA 2+650)

Kedalaman	γ_b	γ_{sat}	C_c	γ'	e_0	a	b	z	a/z	b/z	l	po'	Δp	$\Delta p + po'$	ΔSc
m	kN/m ³	kN/m ³		kN/m ³								kN/m ²	kN/m ²	kN/m ²	m
0	15.50	15.79	0.65	5.98	1.36	0.70	6.50	0	0.00	0.00	0.50	0.00	0.00	0.00	0.00
2	15.50	15.79	0.65	5.98	1.36	0.70	6.50	1	0.70	6.50	0.50	15.50	38.94	54.44	0.30
4	15.50	15.79	0.65	5.98	1.36	0.70	6.50	3	0.23	2.17	0.48	46.50	37.39	83.89	0.14
6	15.50	15.79	0.65	5.98	1.36	0.70	6.50	5	0.14	1.30	0.46	77.50	35.83	113.33	0.09
8	15.50	15.79	0.65	5.98	1.36	0.70	6.50	7	0.10	0.93	0.40	108.50	31.15	139.65	0.06
10	15.50	15.79	0.65	5.98	1.36	0.70	6.50	9	0.08	0.72	0.37	139.50	28.82	168.32	0.04
12	15.50	15.79	0.65	5.98	1.36	0.70	6.50	11	0.06	0.59	0.33	170.50	25.70	196.20	0.03
14	15.50	15.79	0.65	5.98	1.36	0.70	6.50	13	0.05	0.50	0.31	201.50	24.14	225.64	0.03
16	15.50	15.79	0.65	5.98	1.36	0.70	6.50	15	0.05	0.43	0.27	232.50	21.03	253.53	0.02
18	15.50	15.79	0.65	5.98	1.36	0.70	6.50	17	0.04	0.38	0.25	263.50	19.47	282.97	0.02
Sc															0.73

Perhitungan Penurunan Konsolidasi Segmen 6 (STA 2+650 – STA 2+700)

Kedalaman	γ_b	γ_{sat}	C_c	γ'	e_0	a	b	z	a/z	b/z	l	po'	Δp	$\Delta p + po'$	ΔSc
m	kN/m ³	kN/m ³		kN/m ³								kN/m ²	kN/m ²	kN/m ²	m
0	15.50	15.79	0.65	5.98	1.36	0.70	6.50	0	0.00	0.00	0.50	0.00	0.00	0.00	0.00
2	15.50	15.79	0.65	5.98	1.36	0.70	6.50	1	0.70	6.50	0.50	15.50	84.90	100.40	0.44
4	15.50	15.79	0.65	5.98	1.36	0.70	6.50	3	0.23	2.17	0.48	46.50	81.50	128.00	0.24
6	15.50	15.79	0.65	5.98	1.36	0.70	6.50	5	0.14	1.30	0.46	77.50	78.11	155.61	0.17
8	15.50	15.79	0.65	5.98	1.36	0.70	6.50	7	0.10	0.93	0.40	108.50	67.92	176.42	0.12

Kedalaman	y _b	y _{sat}	C _c	y'	e ₀	a	b	z	a/z	b/z	I	p _o '	Δp	Δp+p _o '	ΔSc
m	kN/m ³	kN/m ³		kN/m ³								kN/m ²	kN/m ²	kN/m ²	m
10	15.50	15.79	0.65	5.98	1.36	0.70	6.50	9	0.08	0.72	0.37	139.50	62.83	202.33	0.09
12	15.50	15.79	0.65	5.98	1.36	0.70	6.50	11	0.06	0.59	0.33	170.50	56.03	226.53	0.07
14	15.50	15.79	0.65	5.98	1.36	0.70	6.50	13	0.05	0.50	0.31	201.50	52.64	254.14	0.06
16	15.50	15.79	0.65	5.98	1.36	0.70	6.50	15	0.05	0.43	0.27	232.50	45.85	278.35	0.04
18	15.50	15.79	0.65	5.98	1.36	0.70	6.50	17	0.04	0.38	0.25	263.50	42.45	305.95	0.04
Sc															1.25

Perhitungan Penurunan Konsolidasi Segmen 6 (STA 2+700 – STA 2+750)

Kedalaman	yb	ysat	Cc	γ'	e0	a	b	z	a/z	b/z	I	po'	Δp	Δp+po'	ΔSc
				kN/m3								kN/m2	kN/m2	kN/m2	m
0	15.50	15.79	0.65	5.98	1.36	0.70	6.50	0	0.00	0.00	0.50	0.00	0.00	0.00	0.00
2	15.50	15.79	0.65	5.98	1.36	0.70	6.50	1	0.70	6.50	0.50	15.50	99.14	114.64	0.48
4	15.50	15.79	0.65	5.98	1.36	0.70	6.50	3	0.23	2.17	0.48	46.50	95.18	141.68	0.26
6	15.50	15.79	0.65	5.98	1.36	0.70	6.50	5	0.14	1.30	0.46	77.50	91.21	168.71	0.18
8	15.50	15.79	0.65	5.98	1.36	0.70	6.50	7	0.10	0.93	0.40	108.50	79.32	187.82	0.13
10	15.50	15.79	0.65	5.98	1.36	0.70	6.50	9	0.08	0.72	0.37	139.50	73.37	212.87	0.10
12	15.50	15.79	0.65	5.98	1.36	0.70	6.50	11	0.06	0.59	0.33	170.50	65.44	235.94	0.08
14	15.50	15.79	0.65	5.98	1.36	0.70	6.50	13	0.05	0.50	0.31	201.50	61.47	262.97	0.06
16	15.50	15.79	0.65	5.98	1.36	0.70	6.50	15	0.05	0.43	0.27	232.50	53.54	286.04	0.05
18	15.50	15.79	0.65	5.98	1.36	0.70	6.50	17	0.04	0.38	0.25	263.50	49.57	313.07	0.04
Sc															1.39

Perhitungan Penurunan Konsolidasi Segmen 6 (STA 2+750 – STA 2+800)

Kedalaman	γ_b	γ_{sat}	Cc	γ'	e0	a	b	z	a/z	b/z	l	po'	Δp	$\Delta p + po'$	ΔSc
m	kN/m3	kN/m3		kN/m3								kN/m2			
0	15.50	15.79	0.65	5.98	1.36	0.70	6.50	0	0.00	0.00	0.50	0.00	0.00	0.00	0.00
2	15.50	15.79	0.65	5.98	1.36	0.70	6.50	1	0.70	6.50	0.50	15.50	80.53	96.03	0.43
4	15.50	15.79	0.65	5.98	1.36	0.70	6.50	3	0.23	2.17	0.48	46.50	77.31	123.81	0.23
6	15.50	15.79	0.65	5.98	1.36	0.70	6.50	5	0.14	1.30	0.46	77.50	74.09	151.59	0.16
8	15.50	15.79	0.65	5.98	1.36	0.70	6.50	7	0.10	0.93	0.40	108.50	64.43	172.93	0.11
10	15.50	15.79	0.65	5.98	1.36	0.70	6.50	9	0.08	0.72	0.37	139.50	59.59	199.09	0.08
12	15.50	15.79	0.65	5.98	1.36	0.70	6.50	11	0.06	0.59	0.33	170.50	53.15	223.65	0.06
14	15.50	15.79	0.65	5.98	1.36	0.70	6.50	13	0.05	0.50	0.31	201.50	49.93	251.43	0.05
16	15.50	15.79	0.65	5.98	1.36	0.70	6.50	15	0.05	0.43	0.27	232.50	43.49	275.99	0.04
18	15.50	15.79	0.65	5.98	1.36	0.70	6.50	17	0.04	0.38	0.25	263.50	40.27	303.77	0.03
Sc															1.21

Perhitungan Penurunan Konsolidasi Segmen 6 (STA 2+800 – STA 2+850)

Kedalaman	γ_b	γ_{sat}	Cc	γ'	e0	a	b	z	a/z	b/z	l	po'	Δp	$\Delta p + po'$	ΔSc
m	kN/m3	kN/m3		kN/m3								kN/m2			
0	15.50	15.79	0.65	5.98	1.36	0.70	6.50	0	0.00	0.00	0.50	0.00	0.00	0.00	0.00
2	15.50	15.79	0.65	5.98	1.36	0.70	6.50	1	0.70	6.50	0.50	15.50	47.33	62.83	0.33
4	15.50	15.79	0.65	5.98	1.36	0.70	6.50	3	0.23	2.17	0.48	46.50	45.44	91.94	0.16
6	15.50	15.79	0.65	5.98	1.36	0.70	6.50	5	0.14	1.30	0.46	77.50	43.54	121.04	0.11
8	15.50	15.79	0.65	5.98	1.36	0.70	6.50	7	0.10	0.93	0.40	108.50	37.86	146.36	0.07
10	15.50	15.79	0.65	5.98	1.36	0.70	6.50	9	0.08	0.72	0.37	139.50	35.02	174.52	0.05
12	15.50	15.79	0.65	5.98	1.36	0.70	6.50	11	0.06	0.59	0.33	170.50	31.24	201.74	0.04



Daya Dukung Tanah

Daya Dukung Tanah - Metode Hansen																					
Titik STA			Gs	Y _b (kN/m ³)	Y _k (kN/m ³)	Y _{sat} (kN/m ³)	Y _{air} (kN/m ³)	Y' (kN/m ³)	e	Geser Langsung		D (m)	B (m)	L (m)	q	N _q	N _c	N _γ	q _u (kPa)	FS	q _{all} (kPa)
										c (kN/m ²)	θ°										
0+000	-	0+050	2.68	15.89	10.30	15.96	9.81	6.15	1.68	0.98	11.13	2.00	13.00	50.00	32.68	2.78	9.05	0.53	147.15	3.00	49.05
0+050	-	0+500	2.68	15.89	10.30	15.96	9.81	6.15	1.68	0.98	11.13	2.00	13.00	50.00	31.78	2.78	9.05	0.53	144.62	3.00	48.21
0+500	-	0+550	2.36	15.21	9.81	15.46	9.81	5.65	1.36	9.81	11.29	2.00	13.00	50.00	79.91	2.82	9.14	0.55	377.22	3.00	125.74
0+550	-	0+600	2.36	15.21	9.81	15.46	9.81	5.65	1.36	9.81	11.29	2.00	13.00	50.00	69.23	2.82	9.14	0.55	345.54	3.00	115.18
0+600	-	0+900	2.36	15.21	9.81	15.46	9.81	5.65	1.36	9.81	11.29	2.00	13.00	50.00	30.41	2.82	9.14	0.55	230.39	3.00	76.80
0+900	-	0+950	2.36	15.21	9.81	15.46	9.81	5.65	1.36	9.81	11.29	2.00	13.00	50.00	46.61	2.82	9.14	0.55	278.44	3.00	92.81
0+950	-	1+000	2.36	15.21	9.81	15.46	9.81	5.65	1.36	9.81	11.29	2.00	13.00	50.00	30.41	2.82	9.14	0.55	230.39	3.00	76.80
1+000	-	1+250	2.56	15.30	10.69	15.79	9.81	5.98	1.56	6.87	15.35	2.00	13.00	50.00	30.61	4.28	11.96	1.35	341.79	3.00	113.93
1+250	-	1+300	2.56	15.30	10.69	15.79	9.81	5.98	1.56	6.87	15.35	2.00	13.00	50.00	35.29	4.28	11.96	1.35	363.29	3.00	121.10
1+300	-	1+350	2.56	15.30	10.69	15.79	9.81	5.98	1.56	6.87	15.35	2.00	13.00	50.00	34.03	4.28	11.96	1.35	357.50	3.00	119.17
1+350	-	1+400	2.56	15.30	10.69	15.79	9.81	5.98	1.56	6.87	15.35	2.00	13.00	50.00	41.23	4.28	11.96	1.35	390.58	3.00	130.19
1+400	-	1+500	2.56	15.30	10.69	15.79	9.81	5.98	1.56	6.87	15.35	2.00	13.00	50.00	30.61	4.28	11.96	1.35	341.79	3.00	113.93
1+500	-	1+700	2.36	15.21	9.81	15.46	9.81	5.65	1.36	9.81	11.29	2.00	13.00	50.00	30.41	2.82	9.14	0.55	230.39	3.00	76.80
1+700	-	1+750	2.36	15.21	9.81	15.46	9.81	5.65	1.36	9.81	11.29	2.00	13.00	50.00	46.70	2.82	9.14	0.55	278.71	3.00	92.90
1+750	-	1+800	2.36	15.21	9.81	15.46	9.81	5.65	1.36	9.81	11.29	2.00	13.00	50.00	72.53	2.82	9.14	0.55	355.33	3.00	118.44
1+800	-	1+900	2.36	15.21	9.81	15.46	9.81	5.65	1.36	9.81	11.29	2.00	13.00	50.00	30.41	2.82	9.14	0.55	230.39	3.00	76.80
1+900	-	1+950	2.36	15.21	9.81	15.46	9.81	5.65	1.36	9.81	11.29	2.00	13.00	50.00	46.61	2.82	9.14	0.55	278.44	3.00	92.81
1+950	-	2+000	2.36	15.21	9.81	15.46	9.81	5.65	1.36	9.81	11.29	2.00	13.00	50.00	30.41	2.82	9.14	0.55	230.39	3.00	76.80
2+000	-	2+050	2.68	15.89	10.30	15.96	9.81	6.15	1.68	0.98	11.13	2.00	13.00	50.00	31.78	2.78	9.05	0.53	148.60	3.00	49.53
2+050	-	2+100	2.68	15.89	10.30	15.96	9.81	6.15	1.68	0.98	11.13	2.00	13.00	50.00	49.33	2.78	9.05	0.53	199.80	3.00	66.60
2+100	-	2+150	2.68	15.89	10.30	15.96	9.81	6.15	1.68	0.98	11.13	2.00	13.00	50.00	42.58	2.78	9.05	0.53	180.11	3.00	60.04
2+150	-	2+200	2.68	15.89	10.30	15.96	9.81	6.15	1.68	0.98	11.13	2.00	13.00	50.00	46.24	2.78	9.05	0.53	190.78	3.00	63.59
2+200	-	2+250	2.68	15.89	10.30	15.96	9.81	6.15	1.68	0.98	11.13	2.00	13.00	50.00	66.97	2.78	9.05	0.53	251.26	3.00	83.75
2+250	-	2+300	2.68	15.89	10.30	15.96	9.81	6.15	1.68	0.98	11.13	2.00	13.00	50.00	57.40	2.78	9.05	0.53	223.34	3.00	74.45
2+300	-	2+500	2.68	15.89	10.30	15.96	9.81	6.15	1.68	0.98	11.13	2.00	13.00	50.00	31.78	2.78	9.05	0.53	148.60	3.00	49.53
2+500	-	2+650	2.51	15.50	12.95	15.79	9.81	5.98	1.56	3.92	18.70	2.00	13.00	50.00	31.00	6.23	15.46	2.66	502.34	3.00	167.45
2+650	-	2+700	2.51	15.50	12.95	15.79	9.81	5.98	1.56	3.92	18.70	2.00	13.00	50.00	67.54	6.23	15.46	2.66	749.88	3.00	249.96

Daya Dukung Tanah - Metode Hansen																					
Titik STA			Gs	Υ_b (kN/m³)	Υ_k (kN/m³)	Υ_{sat} (kN/m³)	Υ_{air} (kN/m³)	Υ' (kN/m³)	e	Geser Langsung		D (m)	B (m)	L (m)	q	N _q	N _c	N _γ	q _u (kPa)	FS	q _{all} (kPa)
										c (kN/m²)	θ°										
2+700	-	2+750	2.51	15.50	12.95	15.79	9.81	5.98	1.56	3.92	18.70	2.00	13.00	50.00	79.42	6.23	15.46	2.66	830.36	3.00	276.79
2+750	-	2+800	2.51	15.50	12.95	15.79	9.81	5.98	1.56	3.92	18.70	2.00	13.00	50.00	63.94	6.23	15.46	2.66	725.49	3.00	241.83
2+800	-	2+850	2.51	15.50	12.95	15.79	9.81	5.98	1.56	3.92	18.70	2.00	13.00	50.00	37.39	6.23	15.46	2.66	545.63	3.00	181.88
2+850	-	2+860	2.51	15.50	12.95	15.79	9.81	5.98	1.56	3.92	18.70	2.00	13.00	50.00	31.00	6.23	15.46	2.66	502.34	3.00	167.45

Daya Dukung Tanah - Metode Meyerhof																					
Titik STA			Gs	γ _b (kN/m³)	γ _k (kN/m³)	γ _{sat} (kN/m³)	γ _{air} (kN/m³)	γ' (kN/m³)	e	Geser Langsung		D (m)	B (m)	L (m)	q	N _q	N _c	N _γ	q _u (kPa)	FS	q _{all} (kPa)
										c (kN/m²)	θ°										
0+000	-	0+050	2.68	15.89	10.30	15.96	9.81	6.15	1.68	0.98	11.13	2.00	13.00	50.00	32.68	2.78	9.05	0.50	160.30	3.00	53.43
0+050	-	0+500	2.68	15.89	10.30	15.96	9.81	6.15	1.68	0.98	11.13	2.00	13.00	50.00	31.78	2.78	9.05	0.50	157.66	3.00	52.55
0+500	-	0+550	2.36	15.21	9.81	15.46	9.81	5.65	1.36	9.81	11.29	2.00	13.00	50.00	79.91	2.82	9.14	0.52	393.05	3.00	131.02
0+550	-	0+600	2.36	15.21	9.81	15.46	9.81	5.65	1.36	9.81	11.29	2.00	13.00	50.00	69.23	2.82	9.14	0.52	361.13	3.00	120.38
0+600	-	0+900	2.36	15.21	9.81	15.46	9.81	5.65	1.36	9.81	11.29	2.00	13.00	50.00	30.41	2.82	9.14	0.52	245.11	3.00	81.70
0+900	-	0+950	2.36	15.21	9.81	15.46	9.81	5.65	1.36	9.81	11.29	2.00	13.00	50.00	46.61	2.82	9.14	0.52	293.52	3.00	97.84
0+950	-	1+000	2.36	15.21	9.81	15.46	9.81	5.65	1.36	9.81	11.29	2.00	13.00	50.00	30.41	2.82	9.14	0.52	245.11	3.00	81.70
1+000	-	1+250	2.56	15.30	10.69	15.79	9.81	5.98	1.56	6.87	15.35	2.00	13.00	50.00	30.61	4.28	11.96	1.29	369.83	3.00	123.28
1+250	-	1+300	2.56	15.30	10.69	15.79	9.81	5.98	1.56	6.87	15.35	2.00	13.00	50.00	35.29	4.28	11.96	1.29	391.19	3.00	130.40
1+300	-	1+350	2.56	15.30	10.69	15.79	9.81	5.98	1.56	6.87	15.35	2.00	13.00	50.00	34.03	4.28	11.96	1.29	385.44	3.00	128.48
1+350	-	1+400	2.56	15.30	10.69	15.79	9.81	5.98	1.56	6.87	15.35	2.00	13.00	50.00	41.23	4.28	11.96	1.29	418.30	3.00	139.43
1+400	-	1+500	2.56	15.30	10.69	15.79	9.81	5.98	1.56	6.87	15.35	2.00	13.00	50.00	30.61	4.28	11.96	1.29	369.83	3.00	123.28
1+500	-	1+700	2.36	15.21	9.81	15.46	9.81	5.65	1.36	9.81	11.29	2.00	13.00	50.00	30.41	2.82	9.14	0.52	245.11	3.00	81.70
1+700	-	1+750	2.36	15.21	9.81	15.46	9.81	5.65	1.36	9.81	11.29	2.00	13.00	50.00	46.70	2.82	9.14	0.52	293.79	3.00	97.93
1+750	-	1+800	2.36	15.21	9.81	15.46	9.81	5.65	1.36	9.81	11.29	2.00	13.00	50.00	72.53	2.82	9.14	0.52	370.99	3.00	123.66
1+800	-	1+900	2.36	15.21	9.81	15.46	9.81	5.65	1.36	9.81	11.29	2.00	13.00	50.00	30.41	2.82	9.14	0.52	245.11	3.00	81.70
1+900	-	1+950	2.36	15.21	9.81	15.46	9.81	5.65	1.36	9.81	11.29	2.00	13.00	50.00	46.61	2.82	9.14	0.52	293.52	3.00	97.84
1+950	-	2+000	2.36	15.21	9.81	15.46	9.81	5.65	1.36	9.81	11.29	2.00	13.00	50.00	30.41	2.82	9.14	0.52	245.11	3.00	81.70

Daya Dukung Tanah - Metode Meyerhof																					
Titik STA			Gs	γ _b (kN/m ³)	γ _k (kN/m ³)	γ _{sat} (kN/m ³)	γ _{air} (kN/m ³)	γ' (kN/m ³)	e	Geser Langsung		D (m)	B (m)	L (m)	q	N _q	N _c	N _γ	q _u (kPa)	FS	q _{all} (kPa)
										c (kN/m ²)	θ°										
2+000	-	2+050	2.68	15.89	10.30	15.96	9.81	6.15	1.68	0.98	11.13	2.00	13.00	50.00	31.78	2.78	9.05	0.50	157.66	3.00	52.55
2+050	-	2+100	2.68	15.89	10.30	15.96	9.81	6.15	1.68	0.98	11.13	2.00	13.00	50.00	49.33	2.78	9.05	0.50	209.28	3.00	69.76
2+100	-	2+150	2.68	15.89	10.30	15.96	9.81	6.15	1.68	0.98	11.13	2.00	13.00	50.00	42.58	2.78	9.05	0.50	189.42	3.00	63.14
2+150	-	2+200	2.68	15.89	10.30	15.96	9.81	6.15	1.68	0.98	11.13	2.00	13.00	50.00	46.24	2.78	9.05	0.50	200.19	3.00	66.73
2+200	-	2+250	2.68	15.89	10.30	15.96	9.81	6.15	1.68	0.98	11.13	2.00	13.00	50.00	66.97	2.78	9.05	0.50	261.16	3.00	87.05
2+250	-	2+300	2.68	15.89	10.30	15.96	9.81	6.15	1.68	0.98	11.13	2.00	13.00	50.00	57.40	2.78	9.05	0.50	233.01	3.00	77.67
2+300	-	2+500	2.68	15.89	10.30	15.96	9.81	6.15	1.68	0.98	11.13	2.00	13.00	50.00	31.78	2.78	9.05	0.50	157.66	3.00	52.55
2+500	-	2+650	2.51	15.50	12.95	15.79	9.81	5.98	1.56	3.92	18.70	2.00	13.00	50.00	31.00	5.63	13.68	2.28	439.49	3.00	146.50
2+650	-	2+700	2.51	15.50	12.95	15.79	9.81	5.98	1.56	3.92	18.70	2.00	13.00	50.00	67.54	5.63	13.68	2.28	660.23	3.00	220.08
2+700	-	2+750	2.51	15.50	12.95	15.79	9.81	5.98	1.56	3.92	18.70	2.00	13.00	50.00	79.42	5.63	13.68	2.28	731.99	3.00	244.00
2+750	-	2+800	2.51	15.50	12.95	15.79	9.81	5.98	1.56	3.92	18.70	2.00	13.00	50.00	63.94	5.63	13.68	2.28	638.48	3.00	212.83
2+800	-	2+850	2.51	15.50	12.95	15.79	9.81	5.98	1.56	3.92	18.70	2.00	13.00	50.00	37.39	5.63	13.68	2.28	478.09	3.00	159.36
2+850	-	2+860	2.51	15.50	12.95	15.79	9.81	5.98	1.56	3.92	18.70	2.00	13.00	50.00	31.00	5.63	13.68	2.28	439.49	3.00	146.50

Daya Dukung Tanah - Data SPT								
Titik STA			N	D (m)	γ_b (kN/m ³)	q _u (kPa)	FS	q _{all} (kPa)
0+000	-	0+500	7.00	2.00	15.89	276.78	3.00	92.26
0+500	-	1+000	9.00	2.00	15.21	345.41	3.00	115.14
1+000	-	1+500	3.00	2.00	15.40	210.80	3.00	70.27
1+500	-	2+000	9.00	2.00	15.21	345.41	3.00	115.14
2+000	-	2+500	7.00	2.00	15.89	276.78	3.00	92.26
2+500	-	2+860	11.00	2.00	15.50	416.00	3.00	138.67

Daya Dukung Tanah - Data CPT									
Titik STA			D	K _c	γ _b (kN/m ³)	q _c (kPa)	p _u (kPa)	FS	q _{all} (kPa)
0+000	-	0+500	2.00	0.28	15.89	1050.00	328.81	3.00	109.60
			2.00	0.28	15.89	1500.93	456.37	3.00	152.12
			2.00	0.28	15.89	1402.83	428.62	3.00	142.87
0+500	-	1+000	2.00	0.28	15.21	1314.09	402.15	3.00	134.05
			2.00	0.28	15.21	1372.93	418.79	3.00	139.60
			2.00	0.28	15.21	1402.35	427.11	3.00	142.37
1+000	-	1+500	2.00	0.10	15.30	1010.43	132.50	3.00	44.17
			2.00	0.10	15.30	1034.96	134.97	3.00	44.99
			2.00	0.10	15.30	1775.61	209.66	3.00	69.89
1+500	-	2+000	2.00	0.28	15.21	1314.09	402.15	3.00	134.05
			2.00	0.28	15.21	1372.93	418.79	3.00	139.60
			2.00	0.28	15.21	1402.35	427.11	3.00	142.37
2+000	-	2+500	2.00	0.28	15.89	1050.00	328.81	3.00	109.60
			2.00	0.28	15.89	1500.42	456.23	3.00	152.08
			2.00	0.28	15.89	1402.35	428.49	3.00	142.83
2+500	-	2+860	2.00	0.28	15.50	1294.48	397.19	3.00	132.40
			2.00	0.28	15.50	2000.56	596.93	3.00	198.98
			2.00	0.28	15.50	1294.48	397.19	3.00	132.40

Rekapitulasi Hasil Perhitungan Penurunan, Daya Dukung, dan Beban Semua Titik

Segmen	Titik STA			Penurunan Tanah (m)			Daya Dukung Tanah (kN/m ²)							Beban Total (kN/m ²)	OK or NOT OK
				Penurunan Segera	Penurunan Konsolidasi	Total Penurunan	Hansen	Meyerhof	SPT	CPT			Nilai Daya Dukung		
										1	2	3			
1	0 + 000	-	0 + 050	0.012	0.482	0.494	49.05	53.43	92.26	106.32	147.46	138.51	49.05	35.58	OK
	0 + 050	-	0 + 100	0.012	0.472	0.483	48.21	52.55	92.26	106.32	152.12	138.51	48.21	34.49	OK
	0 + 100	-	0 + 150	0.012	0.472	0.483	48.21	52.55	92.26	106.32	152.12	138.51	48.21	34.49	OK
	0 + 150	-	0 + 200	0.012	0.472	0.483	48.21	52.55	92.26	106.32	152.12	138.51	48.21	34.49	OK
	0 + 200	-	0 + 250	0.012	0.472	0.483	48.21	52.55	92.26	106.32	152.12	138.51	48.21	34.49	OK
	0 + 250	-	0 + 300	0.012	0.472	0.483	48.21	52.55	92.26	106.32	152.12	138.51	48.21	34.49	OK
	0 + 300	-	0 + 350	0.012	0.472	0.483	48.21	52.55	92.26	106.32	152.12	138.51	48.21	34.49	OK
	0 + 350	-	0 + 400	0.012	0.472	0.483	48.21	52.55	92.26	106.32	152.12	138.51	48.21	34.49	OK
	0 + 400	-	0 + 450	0.012	0.472	0.483	48.21	52.55	92.26	106.32	152.12	138.51	48.21	34.49	OK
	0 + 450	-	0 + 500	0.012	0.472	0.483	48.21	52.55	92.26	106.32	152.12	138.51	48.21	34.49	OK
2	0 + 500	-	0 + 550	0.016	1.038	1.054	125.74	131.02	115.14	134.05	139.60	142.37	115.14	94.25	OK
	0 + 550	-	0 + 600	0.014	0.959	0.972	115.18	120.38	115.14	134.05	139.60	142.37	115.14	82.11	OK
	0 + 600	-	0 + 650	0.006	0.567	0.573	76.80	81.70	115.14	134.05	139.60	142.37	76.80	36.10	OK
	0 + 650	-	0 + 700	0.006	0.567	0.573	76.80	81.70	115.14	134.05	139.60	142.37	76.80	36.10	OK
	0 + 700	-	0 + 750	0.006	0.567	0.573	76.80	81.70	115.14	134.05	139.60	142.37	76.80	36.10	OK
	0 + 750	-	0 + 800	0.006	0.567	0.573	76.80	81.70	115.14	134.05	139.60	142.37	76.80	36.10	OK
	0 + 800	-	0 + 850	0.006	0.567	0.573	76.80	81.70	115.14	134.05	139.60	142.37	76.80	36.10	OK
	0 + 850	-	0 + 900	0.006	0.567	0.573	76.80	81.70	115.14	134.05	139.60	142.37	76.80	36.10	OK
	0 + 900	-	0 + 950	0.009	0.757	0.766	92.81	97.84	115.14	134.05	139.60	142.37	92.81	55.78	OK
	0 + 950	-	1 + 000	0.006	0.567	0.573	76.80	81.70	115.14	134.05	139.60	142.37	76.80	36.10	OK
3	1 + 000	-	1 + 050	0.034	0.000	0.034	114.47	123.86	70.27	44.23	45.05	69.95	44.23	26.40	OK
	1 + 050	-	1 + 100	0.034	0.000	0.034	114.47	123.86	70.27	44.23	45.05	69.95	44.23	26.40	OK
	1 + 100	-	1 + 150	0.034	0.000	0.034	114.47	123.86	70.27	44.23	45.05	69.95	44.23	26.40	OK
	1 + 150	-	1 + 200	0.034	0.000	0.034	114.47	123.86	70.27	44.23	45.05	69.95	44.23	26.40	OK
	1 + 200	-	1 + 250	0.034	0.000	0.034	114.47	123.86	70.27	44.23	45.05	69.95	44.23	26.40	OK

Segmen	Titik STA			Penurunan Tanah (m)			Daya Dukung Tanah (kN/m ²)						Beban Total (kN/m ²)	OK or NOT OK	
				Penurunan Segera	Penurunan Konsolidasi	Total Penurunan	Hansen	Meyerhof	SPT	CPT					Nilai Daya Dukung
										1	2	3			
	1 + 250	-	1 + 300	0.040	0.000	0.040	121.63	130.98	70.27	44.23	45.05	69.95	44.23	31.19	OK
	1 + 300	-	1 + 350	0.038	0.000	0.038	119.70	129.06	70.27	44.23	45.05	69.95	44.23	29.90	OK
	1 + 350	-	1 + 400	0.048	0.000	0.048	130.73	140.02	70.27	44.23	45.05	69.95	44.23	37.27	OK
	1 + 400	-	1 + 450	0.034	0.000	0.034	114.47	123.86	70.27	44.23	45.05	69.95	44.23	26.40	OK
	1 + 450	-	1 + 500	0.034	0.000	0.034	114.47	123.86	70.27	44.23	45.05	69.95	44.23	26.40	OK
4	1 + 500	-	1 + 550	0.006	0.567	0.573	76.80	81.70	115.14	134.05	139.60	142.37	76.80	36.10	OK
	1 + 550	-	1 + 600	0.006	0.567	0.573	76.80	81.70	115.14	134.05	139.60	142.37	76.80	36.10	OK
	1 + 600	-	1 + 650	0.006	0.567	0.573	76.80	81.70	115.14	134.05	139.60	142.37	76.80	36.10	OK
	1 + 650	-	1 + 700	0.006	0.567	0.573	76.80	81.70	115.14	134.05	139.60	142.37	76.80	36.10	OK
	1 + 700	-	1 + 750	0.009	0.758	0.767	92.90	97.93	115.14	134.05	139.60	126.21	92.90	55.89	OK
	1 + 750	-	1 + 800	0.014	0.984	0.998	118.44	123.66	115.14	134.05	139.60	142.37	115.14	85.88	OK
	1 + 800	-	1 + 850	0.006	0.567	0.573	76.80	81.70	115.14	134.05	139.60	142.37	76.80	36.10	OK
	1 + 850	-	1 + 900	0.006	0.567	0.573	76.80	81.70	115.14	134.05	139.60	142.37	76.80	36.10	OK
	1 + 900	-	1 + 950	0.009	0.757	0.766	92.81	97.84	115.14	134.05	139.60	142.37	92.81	55.78	OK
	1 + 950	-	2 + 00	0.006	0.567	0.573	76.80	81.70	115.14	134.05	139.60	142.37	76.80	36.10	OK
5	2 + 000	-	2 + 050	0.012	0.472	0.483	49.53	52.55	92.26	109.60	152.08	142.83	49.53	34.49	OK
	2 + 050	-	2 + 100	0.019	0.640	0.659	66.60	69.76	92.26	109.60	152.08	142.83	66.60	55.20	OK
	2 + 100	-	2 + 150	0.016	0.581	0.598	60.04	63.14	92.26	109.60	152.08	142.83	60.04	47.35	OK
	2 + 150	-	2 + 200	0.018	0.614	0.632	63.59	66.73	92.26	109.60	152.08	142.83	63.59	51.62	OK
	2 + 200	-	2 + 250	0.026	0.770	0.796	83.75	87.05	92.26	109.60	152.08	142.83	83.75	75.31	OK
	2 + 250	-	2 + 300	0.022	0.703	0.725	74.45	77.67	92.26	109.60	152.08	142.83	74.45	64.47	OK
	2 + 300	-	2 + 350	0.012	0.472	0.483	49.53	52.55	92.26	109.60	152.08	142.83	49.53	34.49	OK
	2 + 350	-	2 + 400	0.012	0.472	0.483	49.53	52.55	92.26	109.60	152.08	142.83	49.53	34.49	OK
	2 + 400	-	2 + 450	0.012	0.472	0.483	49.53	52.55	92.26	109.60	152.08	142.83	49.53	34.49	OK
	2 + 450	-	2 + 500	0.012	0.472	0.483	49.53	52.55	92.26	109.60	152.08	142.83	49.53	34.49	OK
6	2 + 500	-	2 + 550	0.000	0.731	0.731	167.45	164.99	138.67	132.40	198.98	132.40	38.94	OK	

Segmen	Titik STA			Penurunan Tanah (m)			Daya Dukung Tanah (kN/m²)						Beban Total (kN/m²)	OK or NOT OK	
				Penurunan Segera	Penurunan Konsolidasi	Total Penurunan	Hansen	Meyerhof	SPT	CPT					Nilai Daya Dukung
										1	2	3			
	2 + 550	-	2 + 600	0.000	0.731	0.731	167.45	146.50	138.67	132.40	198.98	132.40	132.40	38.94	OK
	2 + 600	-	2 + 650	0.000	0.731	0.731	167.45	146.50	138.67	132.40	198.98	132.40	132.40	38.94	OK
	2 + 650	-	2 + 700	0.000	1.254	1.254	249.96	220.08	138.67	132.40	198.98	132.40	132.40	84.90	OK
	2 + 700	-	2 + 750	0.000	1.385	1.385	276.79	244.00	138.67	132.40	198.98	132.40	132.40	99.14	OK
	2 + 750	-	2 + 800	0.000	1.211	1.211	241.83	212.83	138.67	132.40	198.98	132.40	132.40	80.53	OK
	2 + 800	-	2 + 850	0.000	0.842	0.842	181.88	159.36	138.67	132.40	198.98	132.40	132.40	47.33	OK
	2 + 850	-	2 + 860	0.000	0.731	0.731	167.45	146.50	138.67	132.40	198.98	132.40	132.40	38.94	OK



Stabilitas Lereng

BISHOP 1955

STA 0 + 450

Slice	c Lereng	ϕ Lereng	Sudut Dasar (α)	Δ	Luas Irisan	W (kN/m)	$\tan(\varphi)$	$\cos(\alpha)$	$\sin(\alpha)$	FS	Gaya Tahanan	Gaya Pendorong				
1	24.53	13.00	87	1.60	0.23	3.77	0.231	0.052	0.999	1.60	6.480	3.76				
	0.98	11.13														
2	24.53	13.00	70	10.91	20.24	331.59	0.231	0.342	0.940	1.60	188.538	311.59				
					2.86	16.79				1.60	107.009	15.78				
	0.98	11.13					1.02			6.27	0.197	1.60	5.825	5.89		
3	24.53	13.00	56	5.29	24	393.18	0.231	0.559	0.829	1.60	136.441	325.96				
					6	35.22				1.60	67.401	29.20				
	0.98	11.13					12.98			79.82	0.197	1.60	16.152	66.17		
4	24.53	13.00	45	4.24	24.31	398.26	0.231	0.707	0.707	1.60	119.218	281.61				
					5.69	33.40				1.60	58.530	23.62				
	0.98	11.13					23.7			145.74	0.197	1.60	23.426	103.06		
5	24.53	13.00	36	3.72	28.71	470.35	0.231	0.809	0.588	1.60	121.066	276.46				
					1.29	7.57				1.60	50.151	4.45				
	0.98	11.13			1.04	6.40	0.197			1.60	2.855	3.76				
					30.32	186.45				1.60	26.878	109.60				
6	24.53	13.00	28	3.39	25.5	417.76	0.231	0.883	0.469	1.60	107.439	196.13				
					11.24	178.63	0.197			1.60	24.482	83.86				
	0.98	11.13								25.18	154.85	1.60	21.474	72.70		
7	24.53	13.00	21	3.22	17	278.51	0.231	0.934	0.358	1.60	85.159	99.81				
	0.98	11.13			17.86	283.83	0.197			1.60	36.714	101.72				
					23.19	142.61				1.60	19.363	51.11				
8	24.53	13.00	14	3.1	13	212.98	0.231	0.970	0.242	1.60	75.125	51.52				
	0.98	11.13			18.67	296.71	0.197			1.60	37.777	71.78				
					25.18	154.85				1.60	20.584	37.46				
9	24.53	13.00	7	3.02	34.5	565.20	0.231	0.993	0.122	1.60	125.327	68.88				
	0.98	11.13			18.7	297.18	0.197			1.60	37.880	36.22				
					26.8	164.81				1.60	21.815	20.09				
10	24.53	13.00	1	3	18.73	297.66	0.197	1.000	0.017	1.60	38.440	5.19				
	0.98	11.13			27.36	168.25				1.60	22.527	2.94				

11	24.53	13.00	-6	3.03	18.76	298.14	0.197	0.995	-0.105	1.60	39.666	-31.16
	0.98	11.13			26.88	165.30				1.60	22.841	-17.28
12	24.53	13.00	-13	3.08	18.79	298.61	0.197	0.974	-0.225	1.60	41.591	-67.17
	0.98	11.13			25.33	155.77				1.60	22.645	-35.04
13	24.53	13.00	-20	3.2	18.83	299.25	0.197	0.940	-0.342	1.60	44.436	-102.35
	0.98	11.13			22.64	139.23				1.60	21.808	-47.62
14	24.53	13.00	-27	3.37	18.86	299.73	0.197	0.891	-0.454	1.60	48.426	-136.07
	0.98	11.13			18.7	115.00				1.60	20.000	-52.21
15	24.53	13.00	-35	3.66	18.88	300.04	0.197	0.819	-0.574	1.60	55.017	-172.10
	0.98	11.13			13.26	81.54				1.60	16.853	-46.77
16	24.53	13.00	-43	4.15	18.92	300.68	0.197	0.731	-0.682	1.60	65.240	-205.06
	0.98	11.13			5.88	36.16				1.60	10.596	-24.66
17	24.53	13.00	-54	5.15	14.45	229.64	0.197	0.588	-0.809	1.60	70.439	-185.78
	0.98	11.13			0.1	0.61				1.60	4.521	-0.50
18	24.53	13.00	-62	2.96	1.84	29.24	0.197	0.469	-0.883	1.60	15.087	-25.82
	0.98	11.13										
										Jumlah (Σ)	2103.244	1310.71
										FS	1.60	

FELLENIOUS 1936

STA0 + 450

Slice	c Lereng	ϕ Lereng	Sudut Dasar (α)	Δ	Luas Irisan	W (kN/m)	$\tan(\phi)$	$\cos(\alpha)$	$\sin(\alpha)$	Gaya Tahanan	Gaya Pendorong				
1	24.53	13.00	87	1.60	0.23	3.77	0.231	0.052	0.999	39.286	3.76				
	0.98	11.13													
2	24.53	13.00	70	10.91	20.24	331.59	0.231	0.342	0.940	293.750	311.59				
					2.86	16.79				268.893	15.78				
	0.98	11.13			1.02	6.27	0.197			11.125	5.89				
3	24.53	13.00	56	5.29	24	393.18	0.231	0.559	0.829	180.497	325.96				
					6	35.22				134.284	29.20				
	0.98	11.13			12.98	79.82	0.197			13.971	66.17				
4	24.53	13.00	45	4.24	24.31	398.26	0.231	0.707	0.707	169.002	281.61				
					5.69	33.40				109.439	23.62				
	0.98	11.13			23.7	145.74	0.197			24.434	103.06				
5	24.53	13.00	36	3.72	28.71	470.35	0.231	0.809	0.588	179.083	276.46				
					1.29	7.57				92.647	4.45				
	0.98	11.13			1.04	6.40	0.197			4.667	3.76				
					30.32	186.45				33.326	109.60				
6	24.53	13.00	28	3.39	25.5	417.76	0.231	0.883	0.469	168.298	196.13				
	0.98	11.13			11.24	178.63	0.197			34.355	83.86				
					25.18	154.85				30.223	72.70				
7	24.53	13.00	21	3.22	17	278.51	0.231	0.934	0.358	138.998	99.81				
	0.98	11.13			17.86	283.83	0.197			55.290	101.72				
					23.19	142.61				29.351	51.11				
8	24.53	13.00	14	3.1	13	212.98	0.231	0.970	0.242	123.736	51.52				
	0.98	11.13			18.67	296.71	0.197			59.680	71.78				
					25.18	154.85				32.600	37.46				
9	24.53	13.00	7	3.02	34.5	565.20	0.231	0.993	0.122	203.580	68.88				
	0.98	11.13			18.7	297.18	0.197			60.994	36.22				
					26.8	164.81				35.145	20.09				
10	24.53	13.00	1	3	18.73	297.66	0.000	1.000	0.017	61.495	5.19				
	0.98	11.13			27.36	168.25				36.039	2.94				

11	24.53	13.00	-6	3.03	18.76	298.14	0.197	0.995	-0.105	61.306	-31.16
	0.98	11.13			26.88	165.30				35.315	-17.28
12	24.53	13.00	-13	3.08	18.79	298.61	0.197	0.974	-0.225	60.264	-67.17
	0.98	11.13			25.33	155.77				32.881	-35.04
13	24.53	13.00	-20	3.2	18.83	299.25	0.197	0.940	-0.342	58.462	-102.35
	0.98	11.13			22.64	139.23				28.878	-47.62
14	24.53	13.00	-27	3.37	18.86	299.73	0.197	0.891	-0.454	55.846	-136.07
	0.98	11.13			18.7	115.00				23.464	-52.21
15	24.53	13.00	-35	3.66	18.88	300.04	0.197	0.819	-0.574	51.945	-172.10
	0.98	11.13			13.26	81.54				16.732	-46.77
16	24.53	13.00	-43	4.15	18.92	300.68	0.197	0.731	-0.682	47.334	-205.06
	0.98	11.13			5.88	36.16				9.274	-24.66
17	24.53	13.00	-54	5.15	14.45	229.64	0.197	0.588	-0.809	31.608	-185.78
	0.98	11.13			0.1	0.61				5.123	-0.50
18	24.53	13.00	-62	2.96	1.84	29.24	0.197	0.469	-0.883	5.605	-25.82
	0.98	11.13									
									Jumlah (Σ)	3148.225	1310.71
									FS	2.40	

BISHOP 1955

STA 1 + 000

Slice	c Lereng	ϕ Lereng	Sudut Dasar (α)	Δ	Luas Irisan	W (kN/m)	$\tan(\varphi)$	$\cos(\alpha)$	$\sin(\alpha)$	FS	Gaya Tahanan	Gaya Pendorong
1	24.53	13.00	68	10.17	17.37	284.57	0.231	0.375	0.927	1.22	222.134	263.85
	9.81	11.29										
2	24.53	13.00	60	11.8	63.5	1040.30	0.231	0.500	0.866	1.22	451.835	900.93
	9.81	11.29			12.64	74.20					189.985	
3	24.53	13.00	52	9.73	100.69	1649.57	0.231	0.616	0.788	1.22	543.718	1299.88
	9.81	11.29			11.26	66.10					167.082	
4	24.53	13.00	46	8.58	191.95	3144.66	0.231	0.695	0.719	1.22	832.648	2262.08
	9.81	11.29			3.09	18.14					143.547	
5	24.53	13.00	40	7.83	143.97	2358.62	0.231	0.766	0.643	1.22	621.505	1516.09
	9.81	11.29			7.54	114.65	0.200			1.22	75.091	73.70
6	24.53	13.00	34	7.27	135.2	2214.94	0.231	0.829	0.559	1.22	565.324	1238.58
	9.81	11.29			33.37	507.41	0.200			1.22	140.138	283.74
7	24.53	13.00	29	6.88	125	2047.84	0.231	0.875	0.485	1.22	516.713	992.81
	9.81	11.29			55.64	846.03	0.200			1.22	192.809	410.17
8	24.53	13.00	25	6.6	115	1884.01	0.231	0.906	0.423	1.22	476.115	796.22
	9.81	11.29			73.96	1124.60	0.200			1.22	234.895	475.28
9	24.53	13.00	20	6.38	104.8	1716.91	0.231	0.940	0.342	1.22	438.357	587.22
	9.81	11.29			88.79	1350.10	0.200			1.22	267.674	461.76
10	24.53	13.00	15	6.22	94.4	1546.53	0.231	0.966	0.259	1.22	404.093	400.27
	9.81	11.29			100.24	1524.20	0.200			1.22	293.311	394.49
11	24.53	13.00	11	6.12	84	1376.15	0.231	0.982	0.191	1.22	372.570	262.58
	9.81	11.29			108.74	1653.45	0.200			1.22	313.489	315.49
12	24.53	13.00	7	6.04	73.6	1205.77	0.231	0.993	0.122	1.22	271.457	146.95
	9.81	11.29			114.42	1739.81	0.200			1.22	328.199	212.03
13	24.53	13.00	2	6.01	63.2	1035.39	0.231	0.999	0.035	1.22	315.120	36.13
	9.81	11.29			117.27	1783.15	0.200			1.22	338.784	62.23
14	24.53	13.00	-2	6	53	868.28	0.231	0.999	-0.035	1.22	288.061	-30.30
	9.81	11.29			117.48	1786.34	0.200			1.22	343.988	-62.34
15	24.53	13.00	-6	6.03	43	704.46	0.231	0.995	-0.105	1.22	262.263	-73.64
	9.81	11.29			115	1748.63	0.200			1.22	344.271	-182.78

16	24.53	13.00	-10	7	32.8	537.35	0.231	0.985	-0.174	1.22	254.962	-93.31
	9.81	11.29			109.81	1669.72	0.200			1.22	346.773	-289.94
17	24.53	13.00	-15	6.21	22.4	366.97	0.231	0.966	-0.259	1.22	210.228	-94.98
	9.81	11.29			101.81	1548.07	0.200			1.22	330.663	-400.67
18	24.53	13.00	-19	6.36	12	196.59	0.231	0.946	-0.326	1.22	182.091	-64.00
	9.81	11.29			90.81	1380.81	0.200			1.22	312.307	-449.55
19	24.53	13.00	-24	6.55	1.8	29.49	0.231	0.914	-0.407	1.22	153.948	-11.99
	9.81	11.29			76.57	1164.29	0.200			1.22	287.421	-473.56
20	24.53	13.00	-29	6.83	58.94	896.21	0.200	0.875	-0.485	1.22	250.922	-434.49
	9.81	11.29										
21	24.53	13.00	-34	7.21	37.21	565.80	0.200	0.829	-0.559	1.22	196.545	-316.39
	9.81	11.29										
22	24.53	13.00	-38	6.7	11.15	169.54	0.200	0.788	-0.616	1.22	105.808	-104.38
	9.81	11.29										
										Jumlah (Σ)	12586.844	10310.13
										FS	1.22	

FELLENIOUS 1936

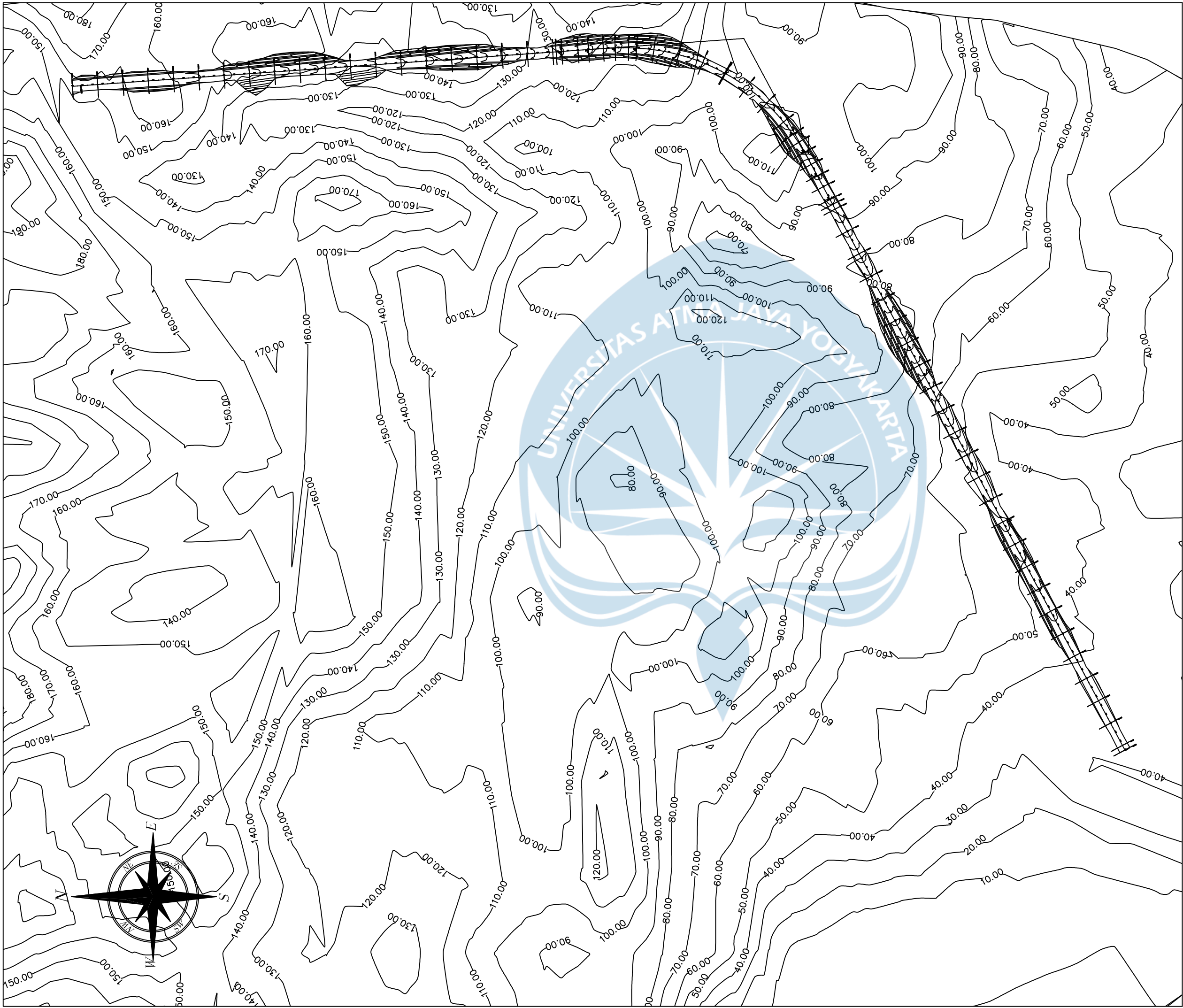
STA 1 + 000

Slice	c Lereng	ϕ Lereng	Sudut Dasar (α)	Δ	Luas Irisan	W (kN/m)	$\tan(\phi)$	$\cos(\alpha)$	$\sin(\alpha)$	Gaya Tahanan	Gaya Pendorong
1	24.53	13.00	68	10.17	17.37	284.57	0.231	0.375	0.927	274.030	263.85
	9.81	11.29									
2	24.53	13.00	60	11.8	63.5	1040.30	0.231	0.500	0.866	409.481	900.93
	9.81	11.29			12.64	74.20				124.323	
3	24.53	13.00	52	9.73	100.69	1649.57	0.231	0.616	0.788	473.093	1299.88
	9.81	11.29			11.26	66.10				104.846	
4	24.53	13.00	46	8.58	191.95	3144.66	0.231	0.695	0.719	714.748	2262.08
	9.81	11.29			3.09	18.14				87.079	
5	24.53	13.00	40	7.83	143.97	2358.62	0.231	0.766	0.643	609.165	1516.09
	9.81	11.29			7.54	114.65	0.200			94.346	73.70
6	24.53	13.00	34	7.27	135.2	2214.94	0.231	0.829	0.559	602.233	1238.58
	9.81	11.29			33.37	507.41	0.200			155.298	283.74
7	24.53	13.00	29	6.88	125	2047.84	0.231	0.875	0.485	582.235	992.81
	9.81	11.29			55.64	846.03	0.200			215.217	410.17
8	24.53	13.00	25	6.6	115	1884.01	0.231	0.906	0.423	556.071	796.22
	9.81	11.29			73.96	1124.60	0.200			268.224	475.28
9	24.53	13.00	20	6.38	104.8	1716.91	0.231	0.940	0.342	528.944	587.22
	9.81	11.29			88.79	1350.10	0.200			315.864	461.76
10	24.53	13.00	15	6.22	94.4	1546.53	0.231	0.966	0.259	497.423	400.27
	9.81	11.29			100.24	1524.20	0.200			354.938	394.49
11	24.53	13.00	11	6.12	84	1376.15	0.231	0.982	0.191	461.964	262.58
	9.81	11.29			108.74	1653.45	0.200			384.064	315.49
12	24.53	13.00	7	6.04	73.6	1205.77	0.231	0.993	0.122	424.429	146.95
	9.81	11.29			114.42	1739.81	0.200			403.997	212.03
13	24.53	13.00	2	6.01	63.2	1035.39	0.231	0.999	0.035	386.287	36.13
	9.81	11.29			117.27	1783.15	0.200			414.726	62.23
14	24.53	13.00	-2	6	53	868.28	0.231	0.999	-0.035	347.487	-30.30
	9.81	11.29			117.48	1786.34	0.200			415.265	-62.34
15	24.53	13.00	-6	6.03	43	704.46	0.231	0.995	-0.105	309.631	-73.64
	9.81	11.29			115	1748.63	0.200			406.336	-182.78

16	24.53	13.00	-10	7	32.8	537.35	0.231	0.985	-0.174	293.848	-93.31
	9.81	11.29			109.81	1669.72	0.200			396.945	-289.94
17	24.53	13.00	-15	6.21	22.4	366.97	0.231	0.966	-0.259	234.136	-94.98
	9.81	11.29			101.81	1548.07	0.200			359.444	-400.67
18	24.53	13.00	-19	6.36	12	196.59	0.231	0.946	-0.326	198.893	-64.00
	9.81	11.29			90.81	1380.81	0.200			323.036	-449.55
19	24.53	13.00	-24	6.55	1.8	29.49	0.231	0.914	-0.407	166.858	-11.99
	9.81	11.29			76.57	1164.29	0.200			276.596	-473.56
20	24.53	13.00	-29	6.83	58.94	896.21	0.200	0.875	-0.485	323.991	-434.49
	9.81	11.29									
21	24.53	13.00	-34	7.21	37.21	565.80	0.200	0.829	-0.559	270.469	-316.39
	9.81	11.29									
22	24.53	13.00	-38	6.7	11.15	169.54	0.200	0.788	-0.616	190.989	-104.38
	9.81	11.29									
									Jumlah (Σ)	13956.950	10310.13
									FS	1.35	



GAMBAR DESAIN



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

KONTUR JALAN TRASE 1

DIGAMBAR & DISUSUN OLEH:

GABRIEL VITORIAN CHRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 7042



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

SECTION

DIGAMBAR & DISUSUN OLEH:

GABRIEL VITORIAN CHRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 150

0+000.00

Bahu Jalan Bahu Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

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Badan Jalan

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Badan Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

0+050.00

Bahu Jalan Bahu Jalan

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Badan Jalan

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Badan Jalan

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Badan Jalan

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Badan Jalan

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Badan Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

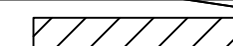
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Badan Jalan

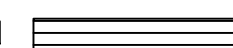
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Badan Jalan

GALIAN



TIMBUNAN





TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

SECTION

DIGAMBAR & DISUSUN OLEH:

GABRIEL VITORIAN CHRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 150

0+100.00

Bahu Jalan Bahu Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

1:6 -4.00% -2.00% -2.00% -4.00% 1:6

0+150.00

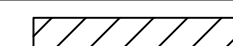
Bahu Jalan Bahu Jalan

1.5 m 5.0 m 5.0 m 1.5 m

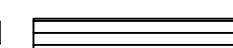
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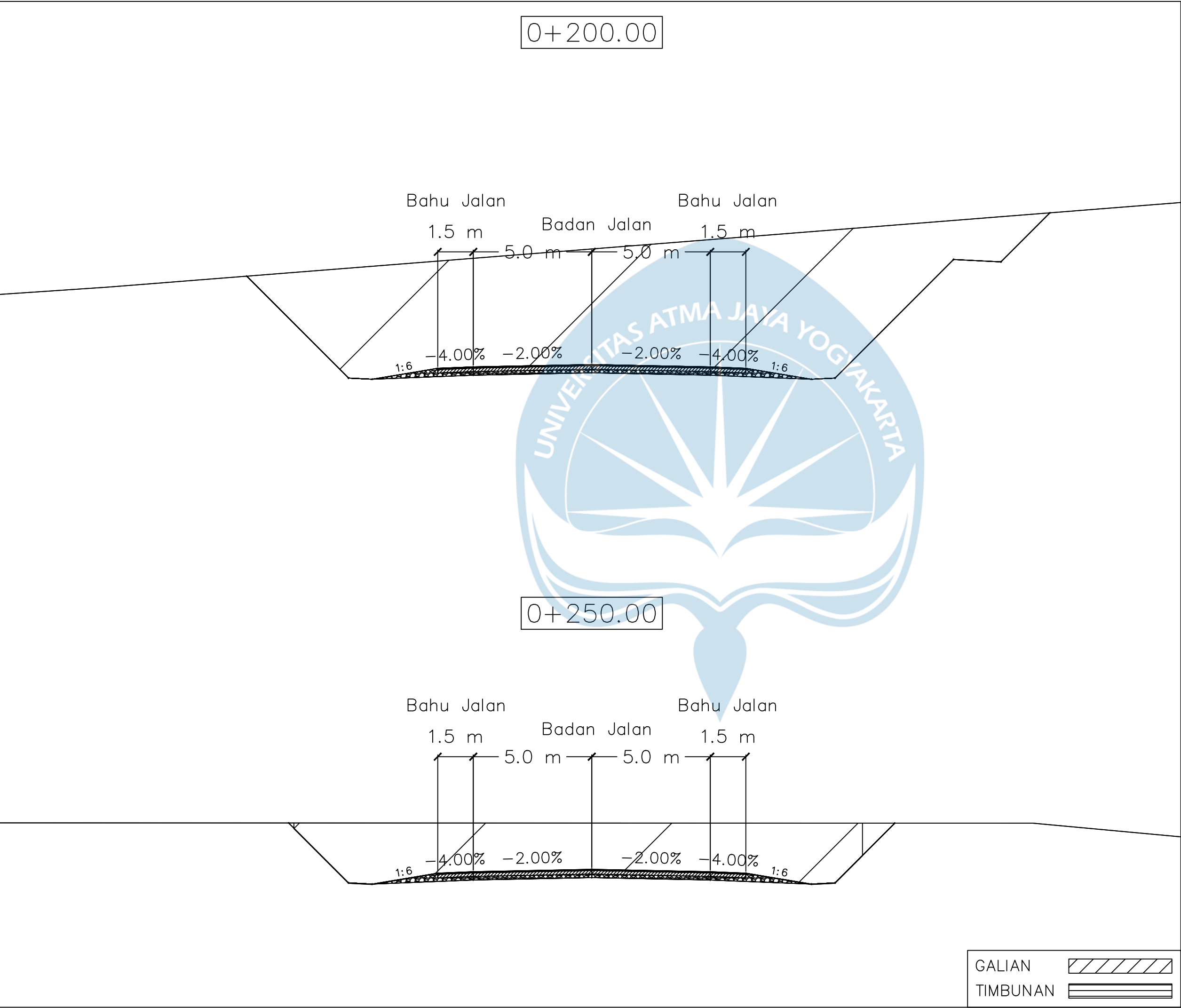
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GALIAN



TIMBUNAN





TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

SECTION

DIGAMBAR & DISUSUN OLEH:

GABRIEL VITORIAN CHRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 150



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

SECTION

DIGAMBAR & DISUSUN OLEH:

GABRIEL VITORIAN CHRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

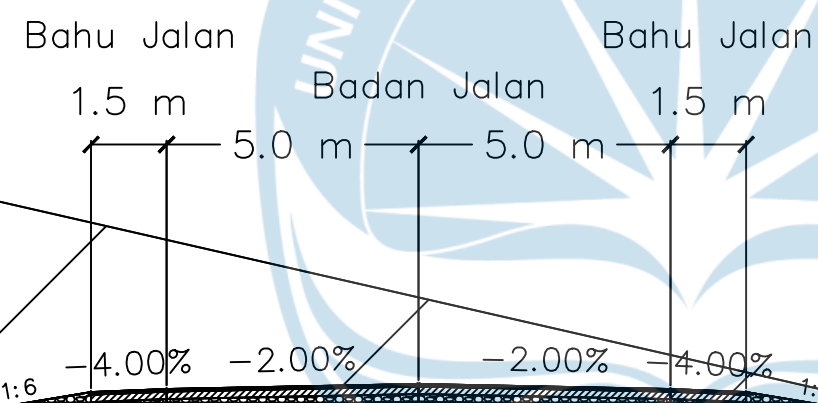
DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 150

0+300.00



GALIAN

TIMBUNAN



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

SECTION

DIGAMBAR & DISUSUN OLEH:

GABRIEL VITORIAN CHRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

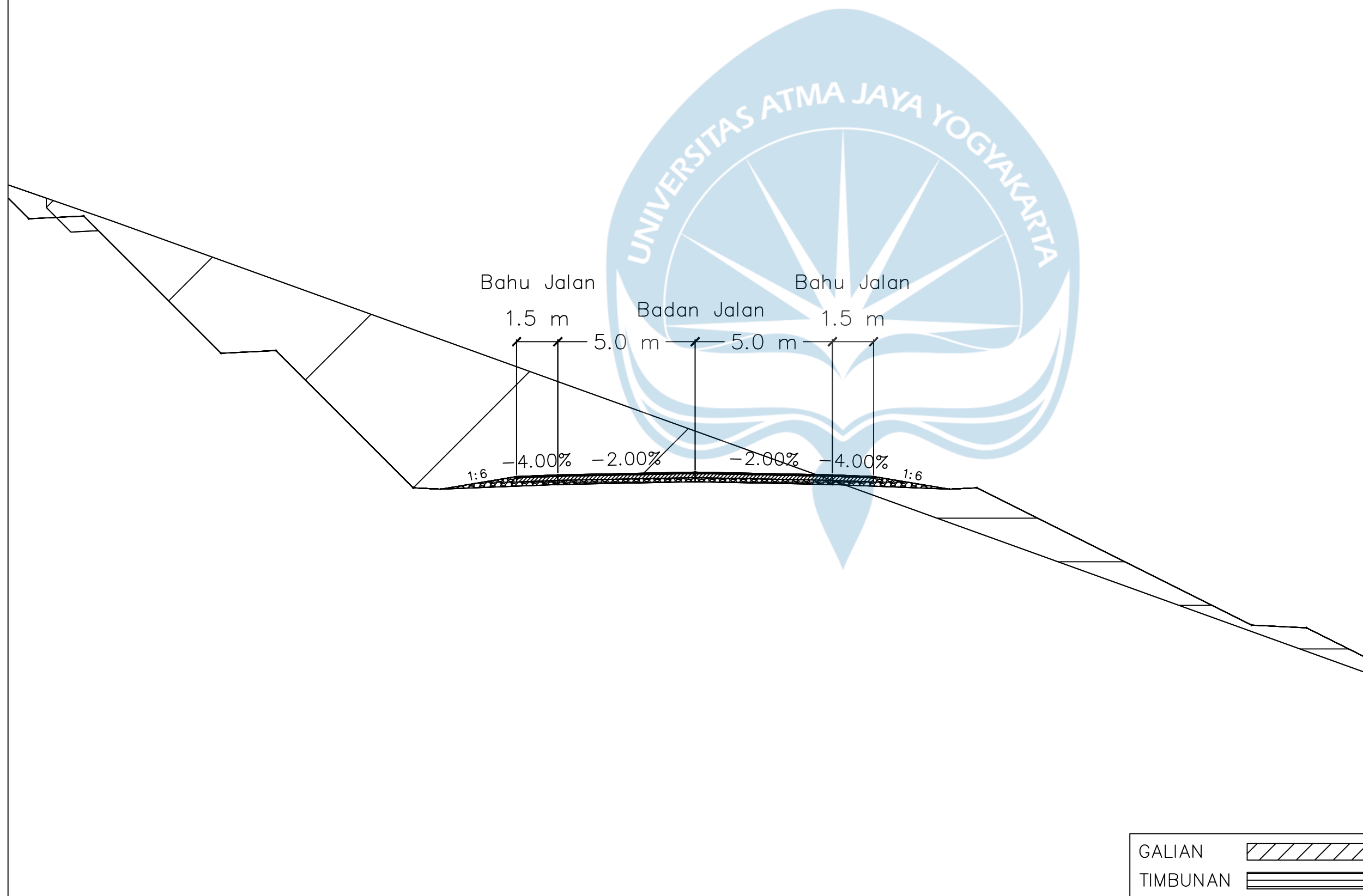
DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

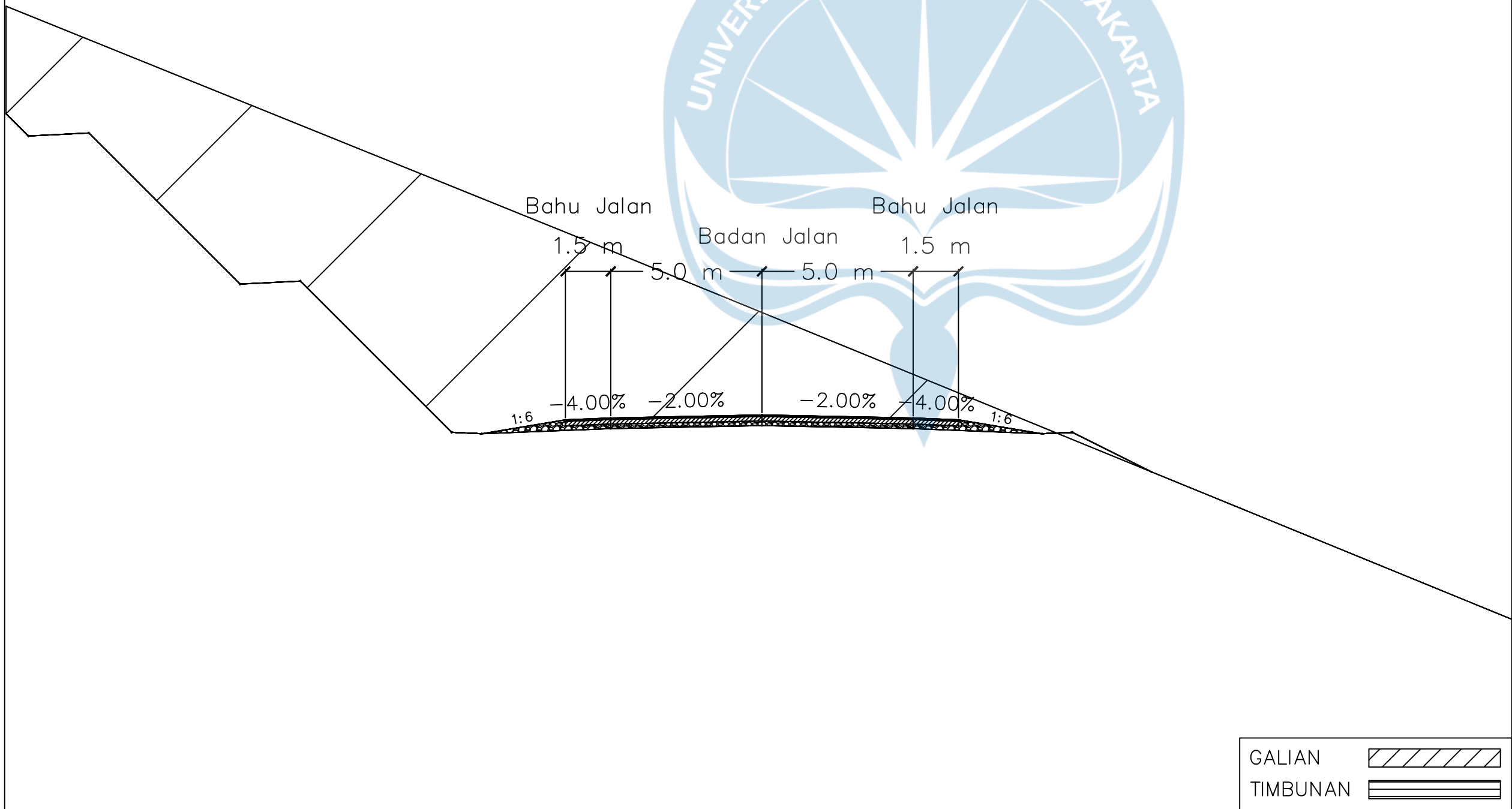
SKALA

1 : 150

0+350.00



0+400.00



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

SECTION

DIGAMBAR & DISUSUN OLEH:

GABRIEL VITORIAN CHRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

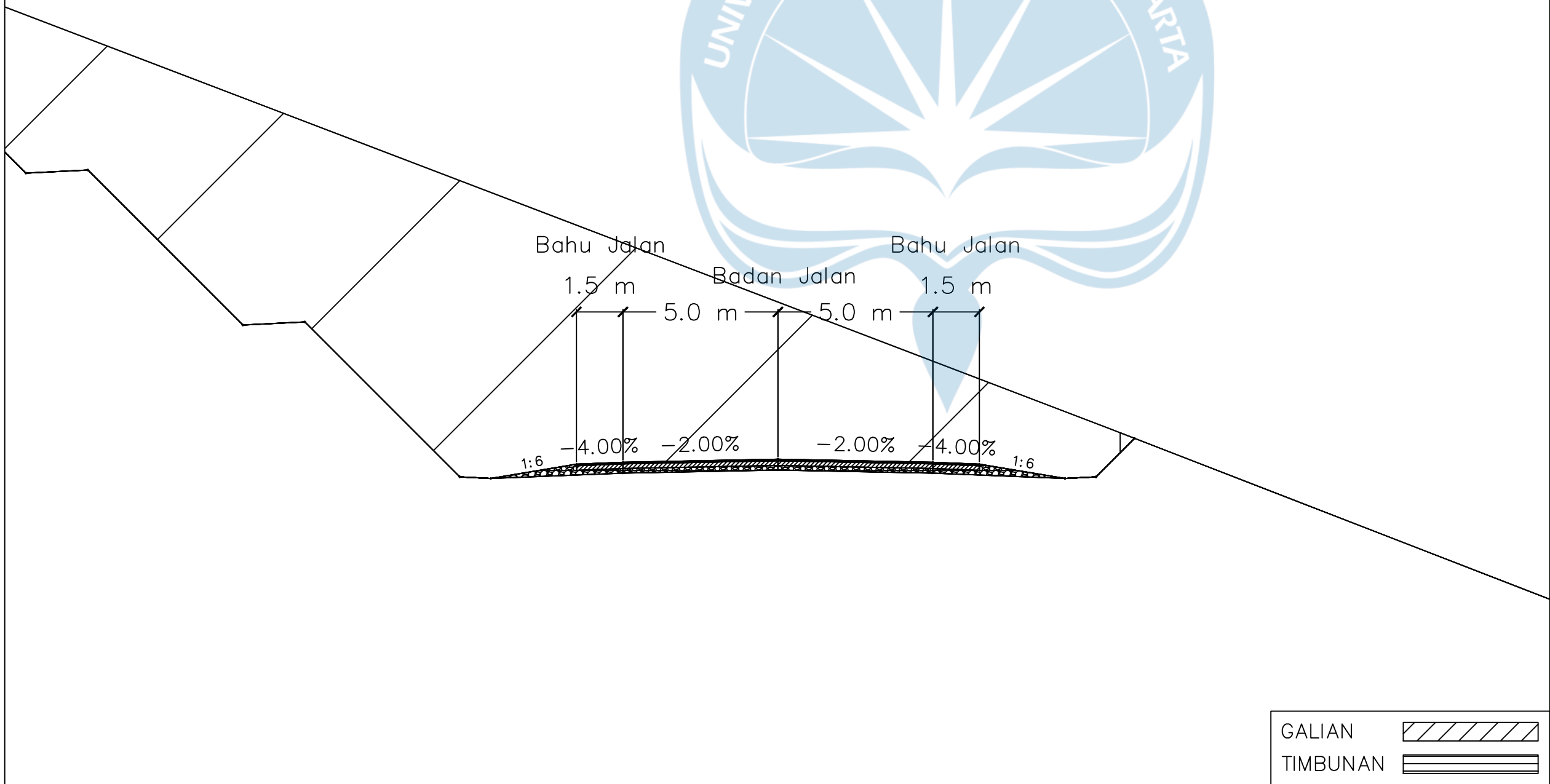
DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 150

0+450.00



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

SECTION

DIGAMBAR & DISUSUN OLEH:

GABRIEL VITORIAN CHRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 150



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

SECTION

DIGAMBAR & DISUSUN OLEH:

GABRIEL VITORIAN CHRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

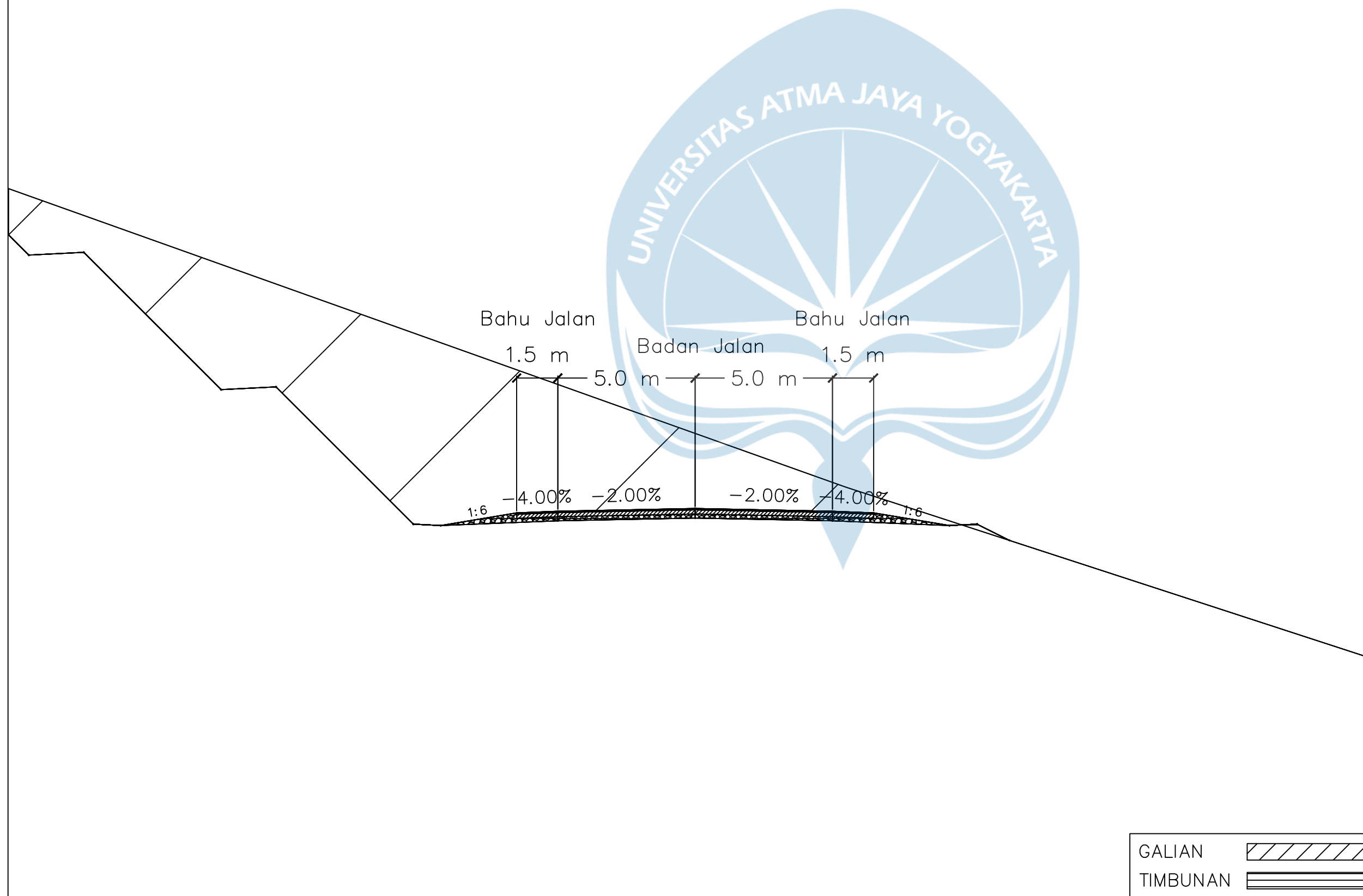
DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 150

0+500.00





TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

SECTION

DIGAMBAR & DISUSUN OLEH:

GABRIEL VITORIAN CHRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

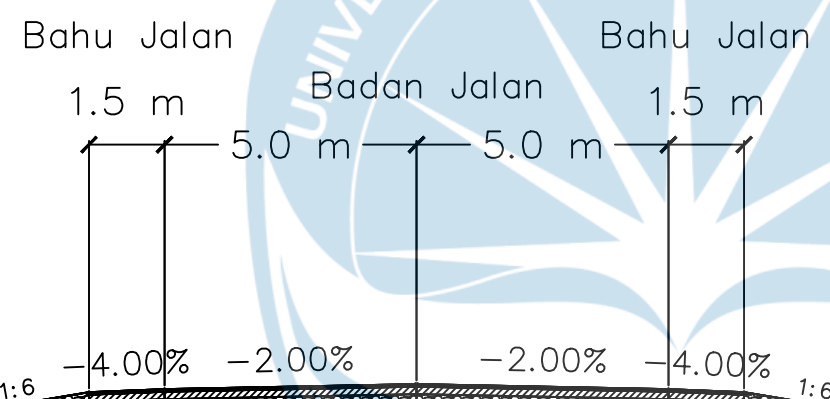
DISETUJUI

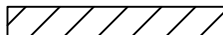
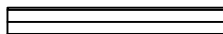
Dr. Ir. J. Dwijoko Anusanto, M.T.

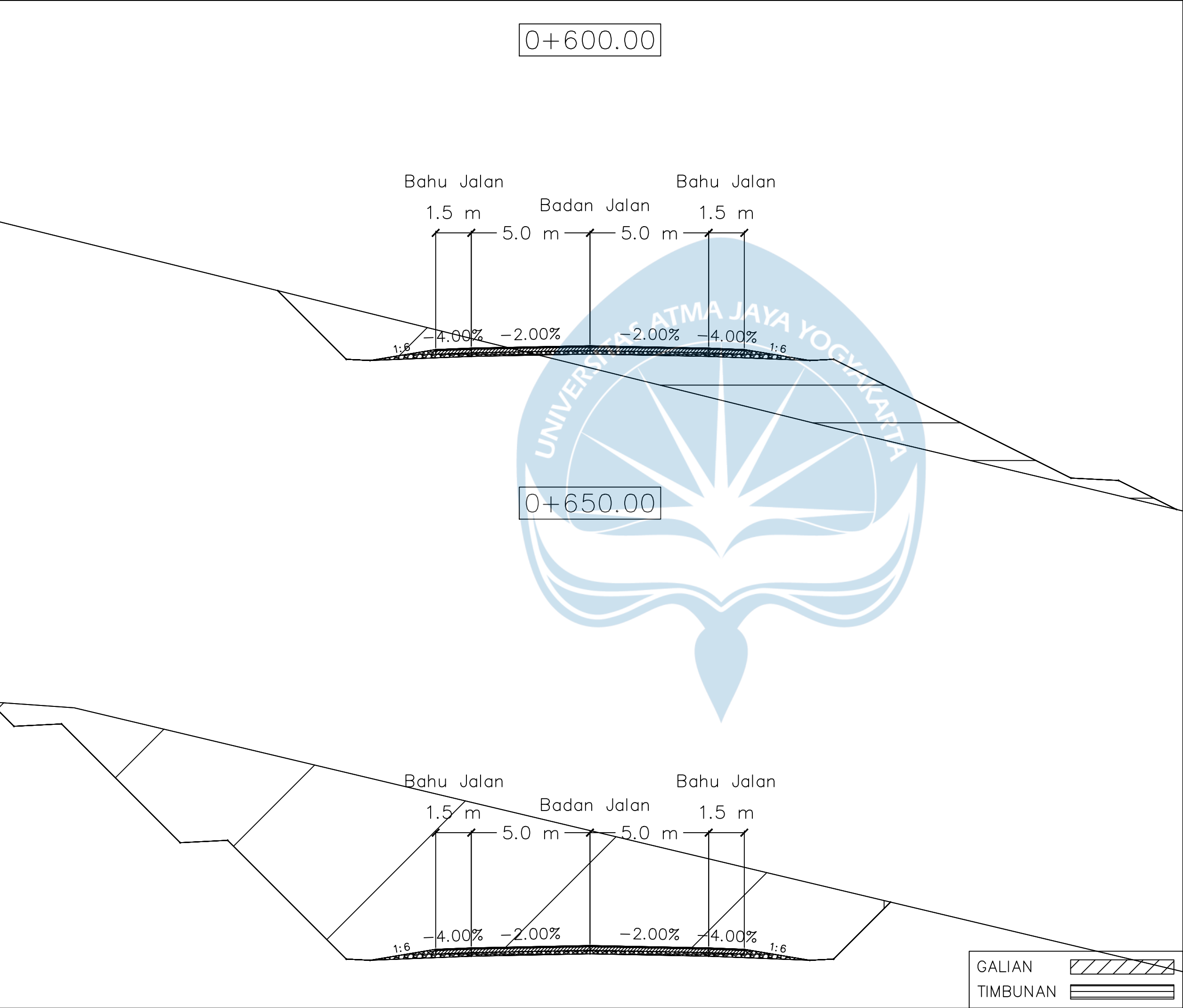
SKALA

1 : 150

0+550.00



GALIAN 
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TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

SECTION

DIGAMBAR & DISUSUN OLEH:

GABRIEL VITORIAN CHRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 150



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

SECTION

DIGAMBAR & DISUSUN OLEH:

GABRIEL VITORIAN CHRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

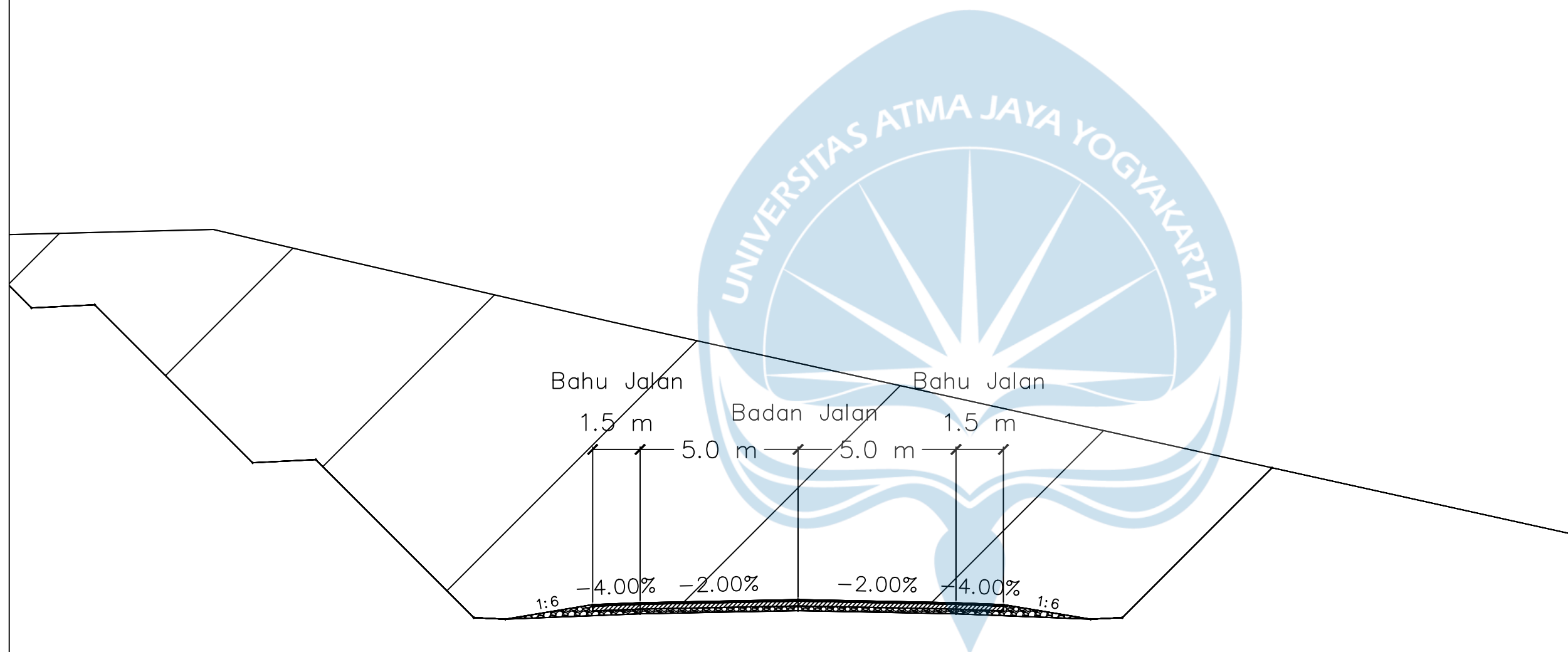
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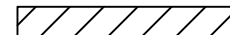
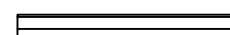
Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 150

0+700.00



GALIAN 
TIMBUNAN 



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

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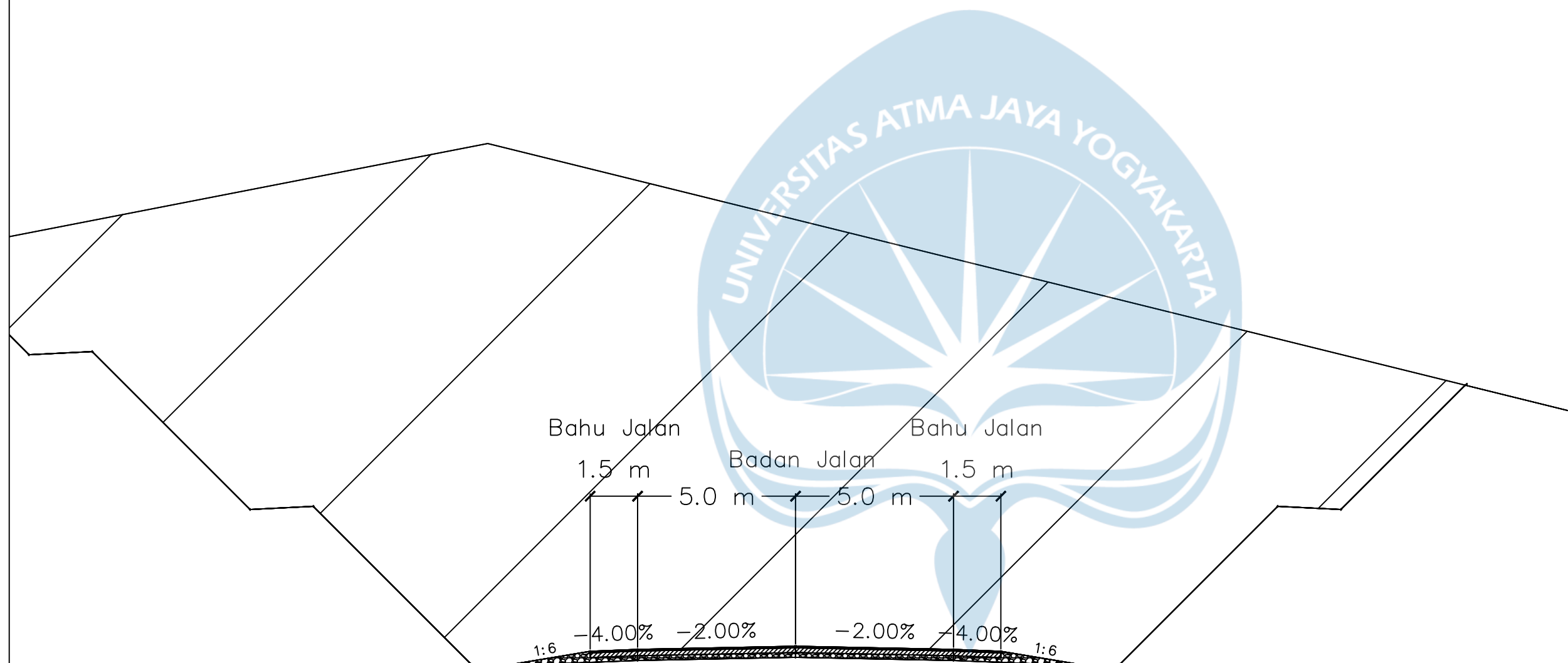
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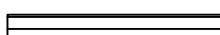
Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 150

0+750.00



GALIAN 
TIMBUNAN 



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
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TAHUN AJARAN 2024/2025

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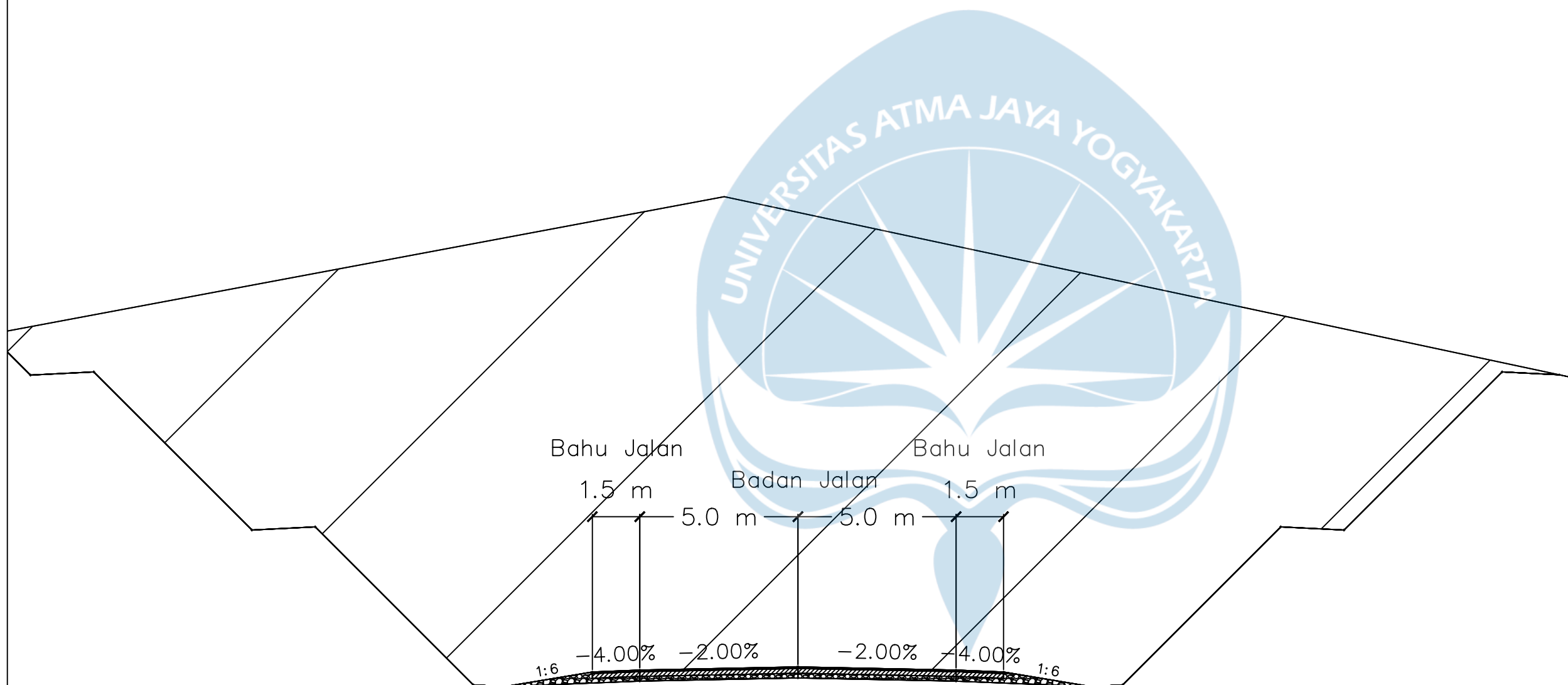
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Dr. Ir. J. Dwijoko Anusanto, M.T.

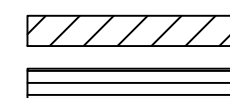
SKALA

1 : 150

0+800.00



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TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

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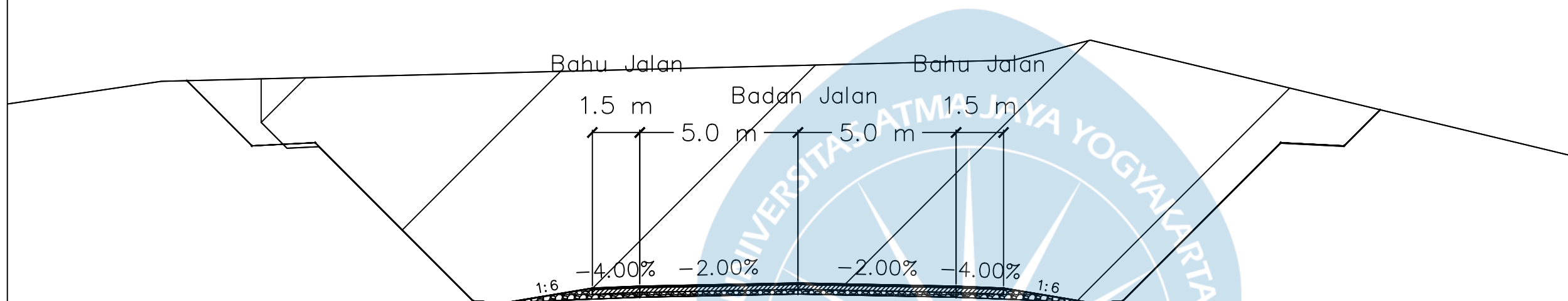
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Dr. Ir. J. Dwijoko Anusanto, M.T.

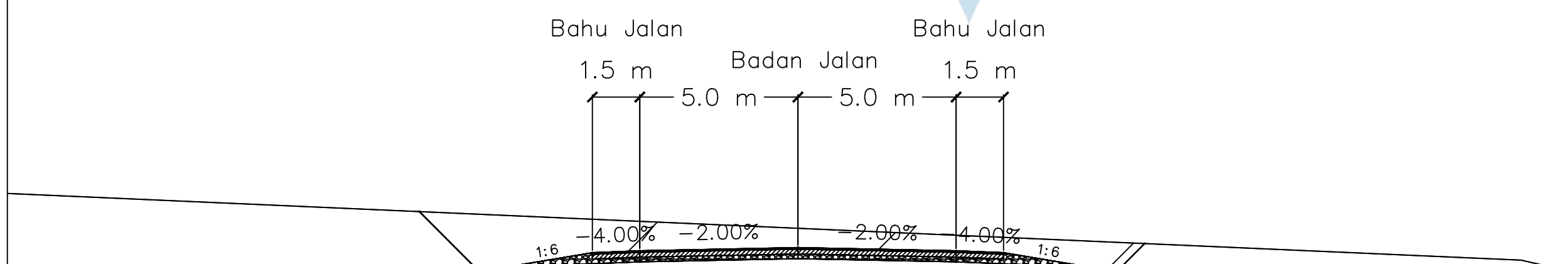
SKALA

1 : 150

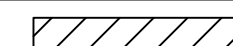
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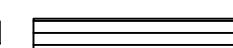
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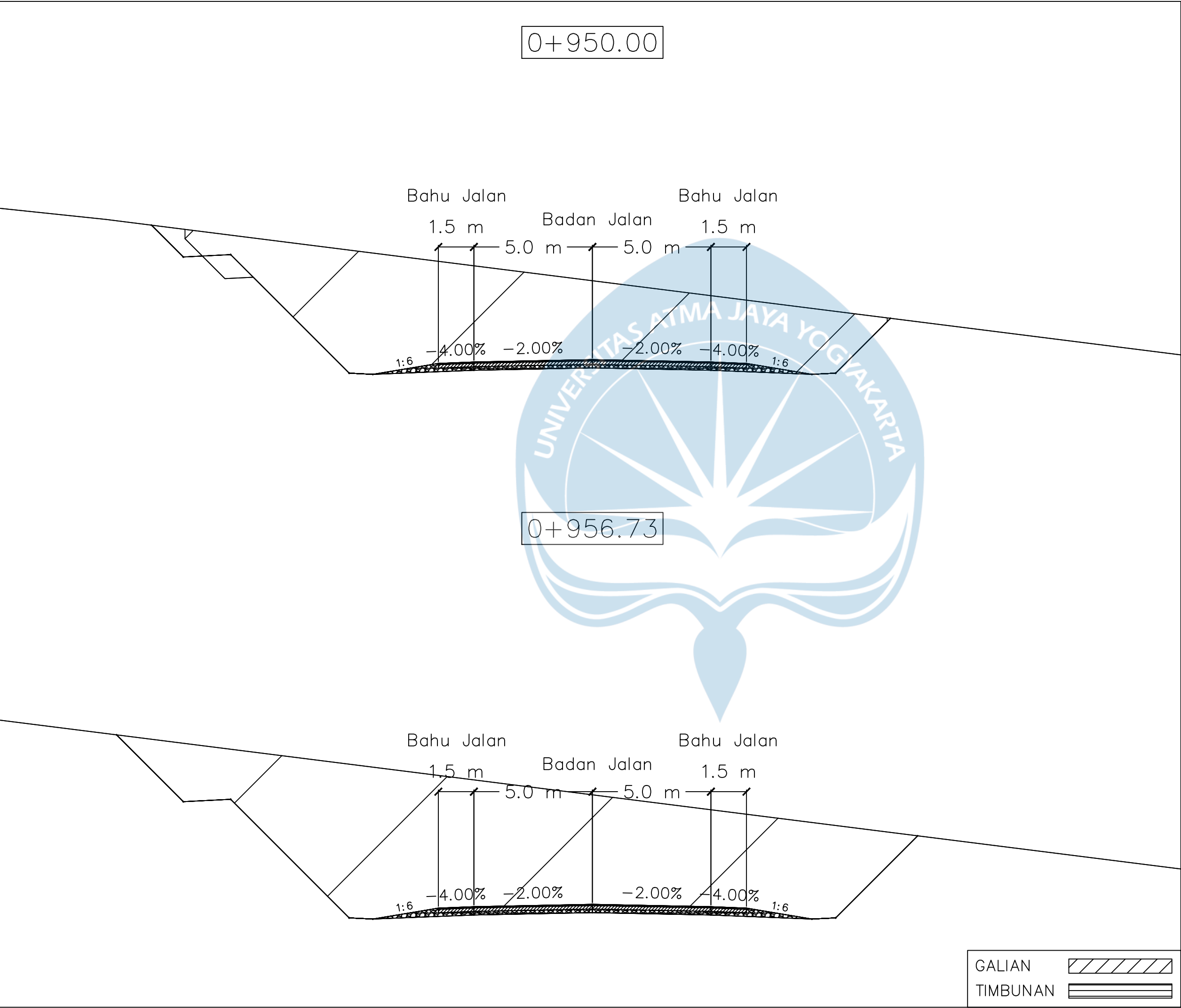


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DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 150



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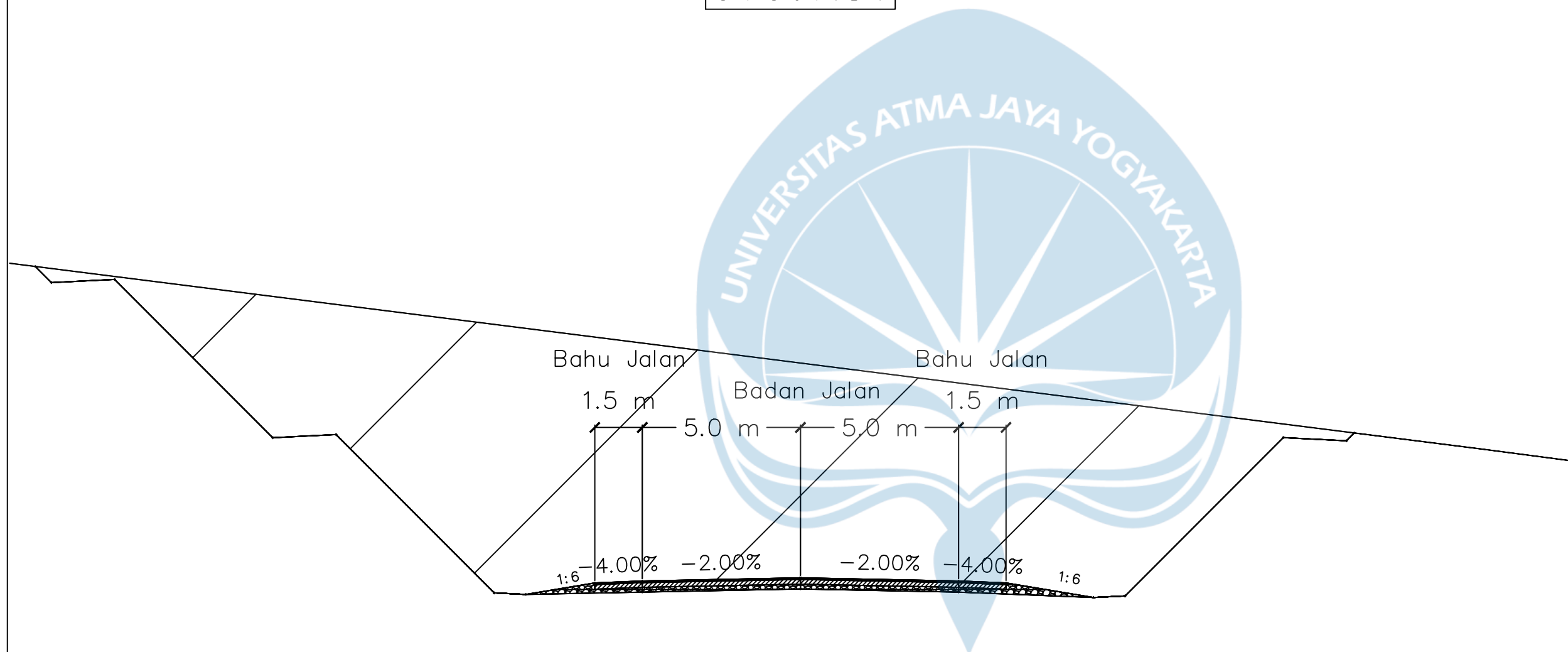
DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 150

0+967.84



GALIAN

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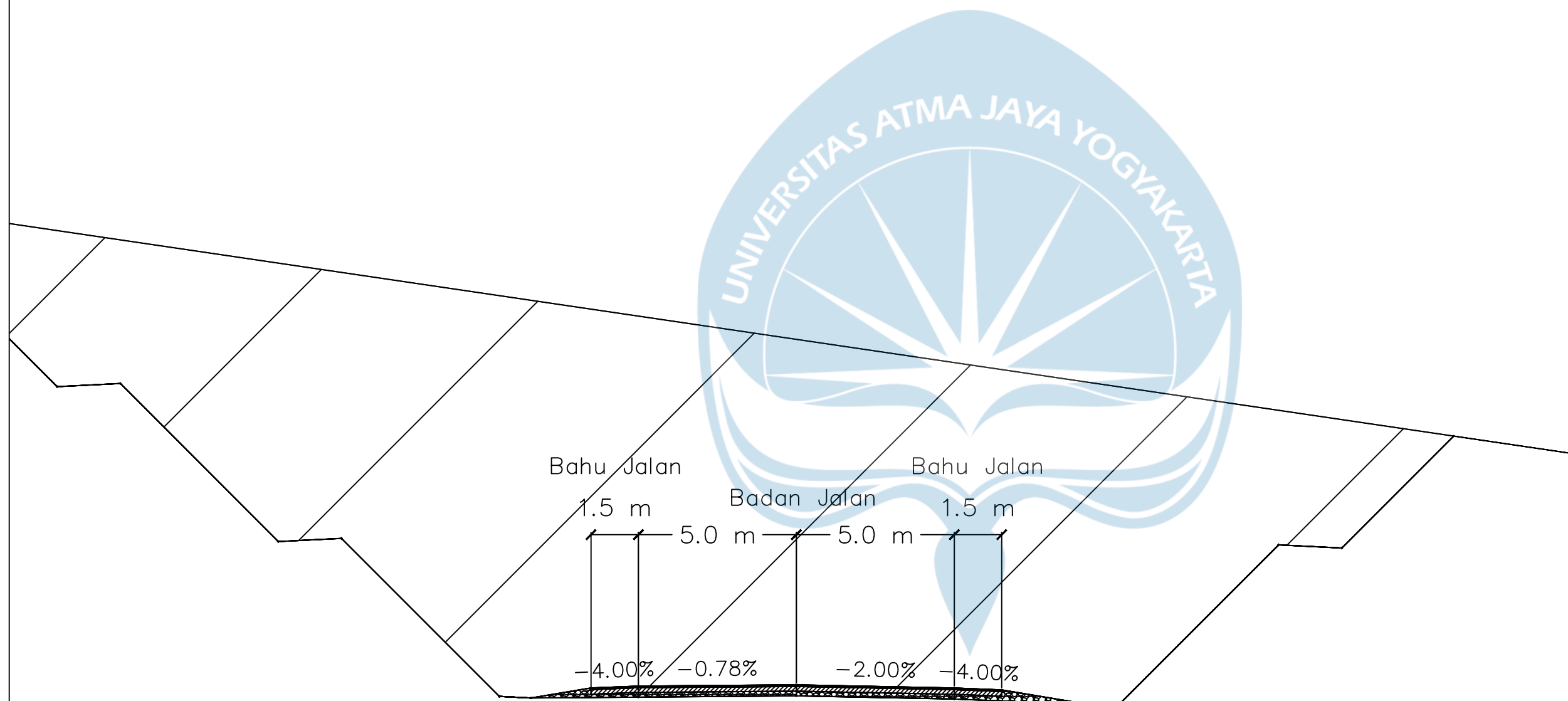
DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 150

1+000.00



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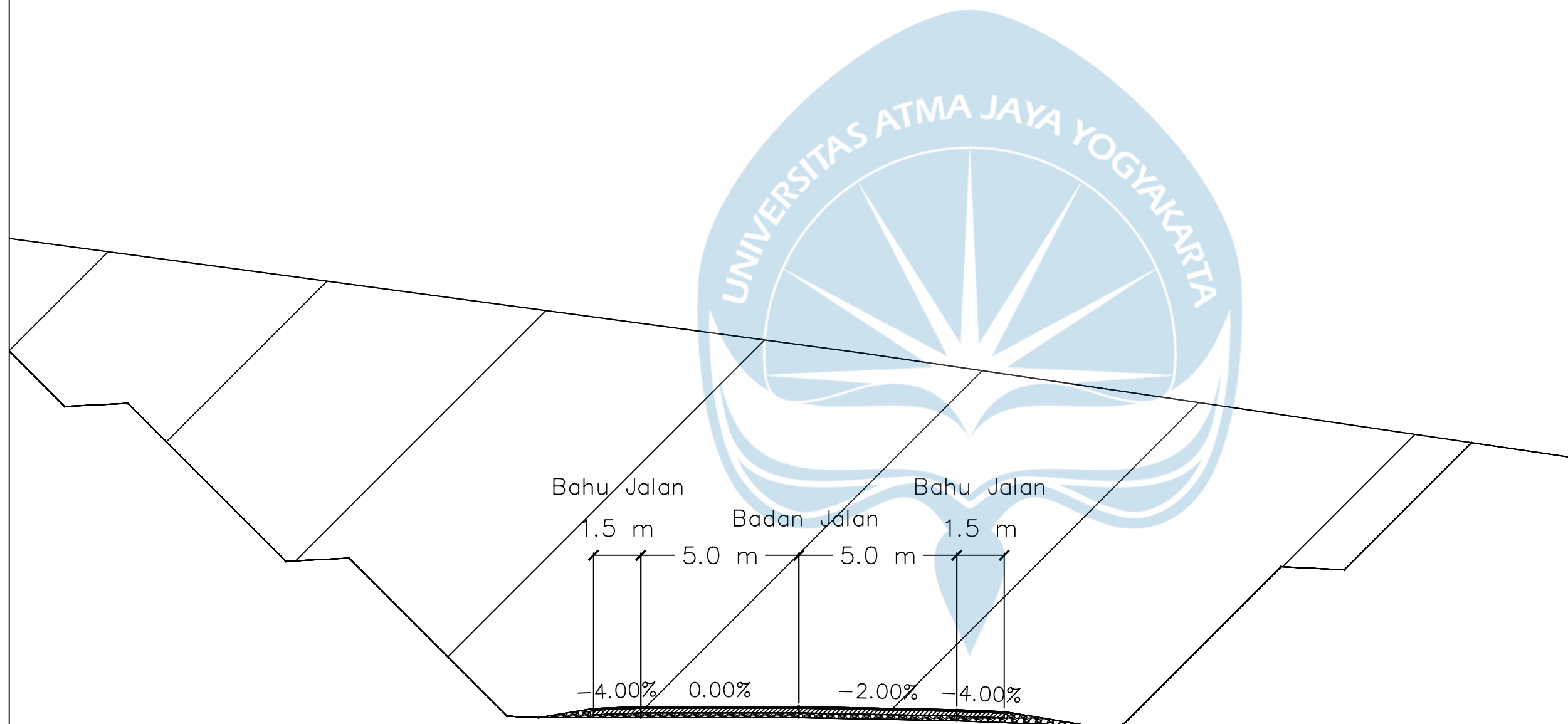
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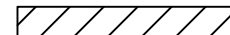
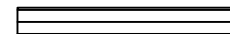
Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 150

1+020.62



GALIAN 
TIMBUNAN 



TUGAS AKHIR PERANCANGAN
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TAHUN AJARAN 2024/2025

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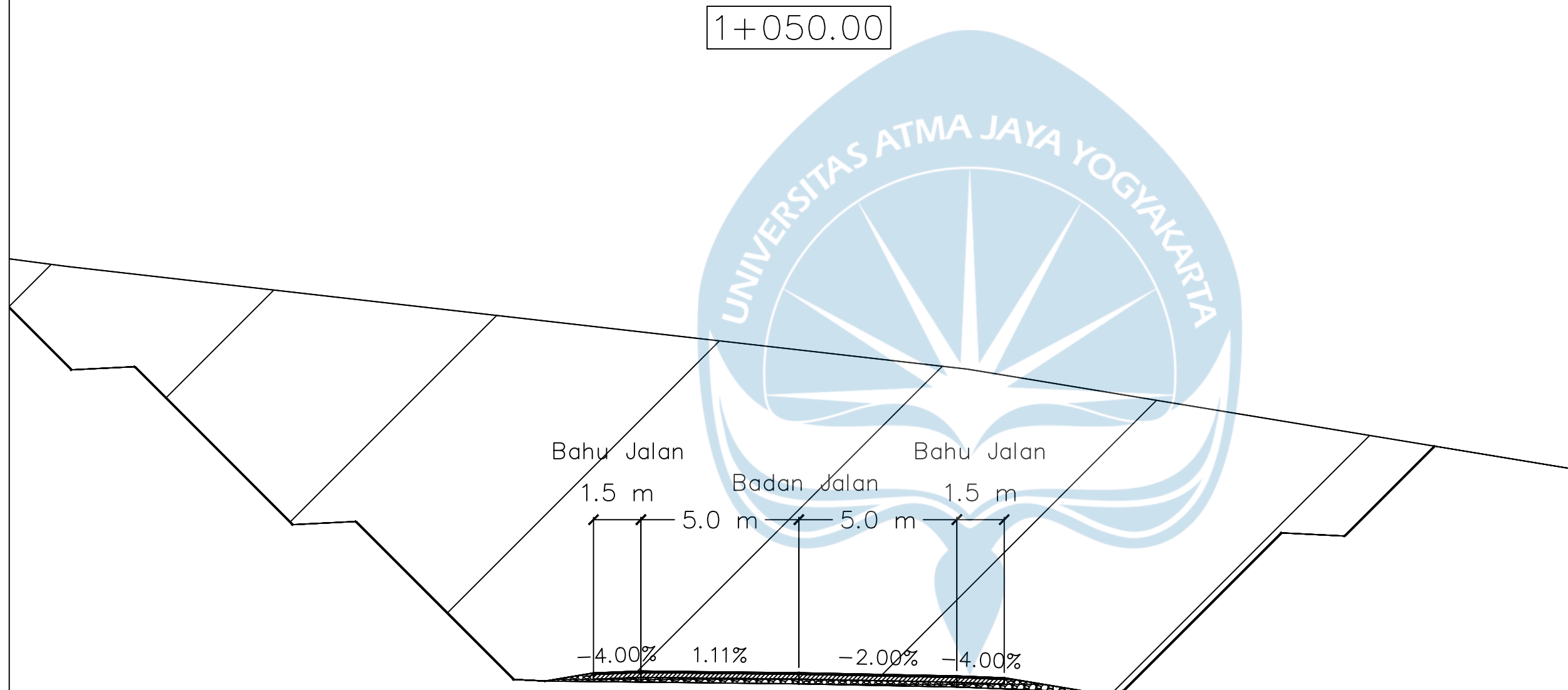
DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

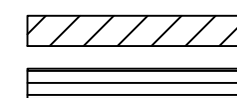
SKALA

1 : 150

1+050.00



GALIAN
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TAHUN AJARAN 2024/2025

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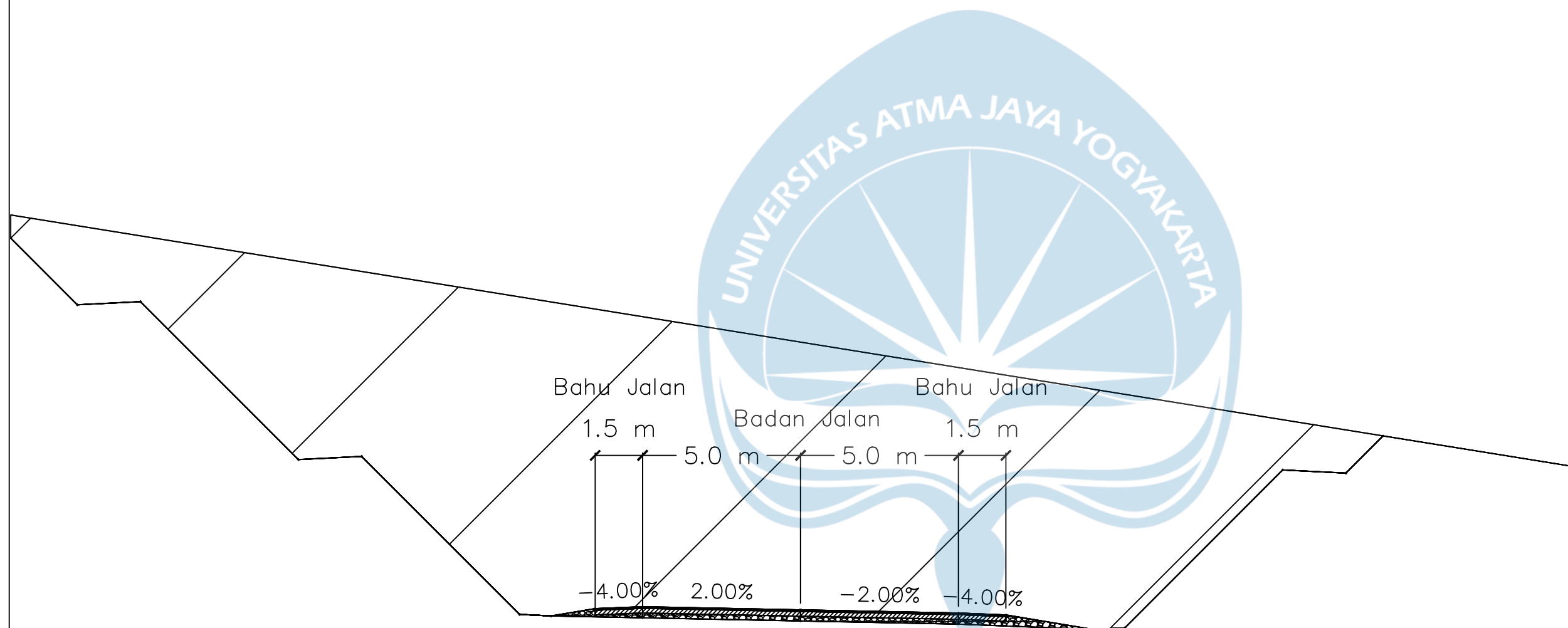
DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

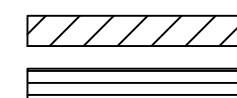
SKALA

1 : 150

1+073.40



GALIAN
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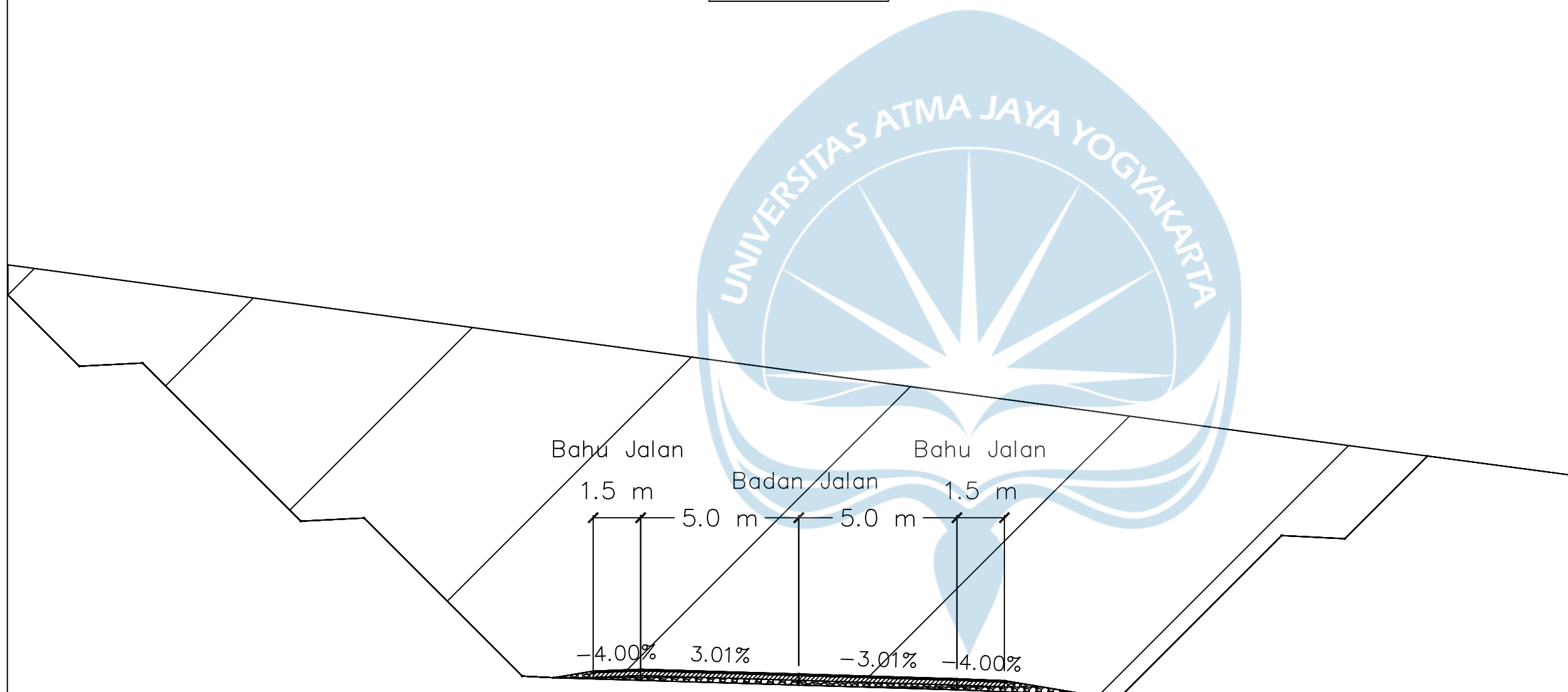
DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 150

1+100.00



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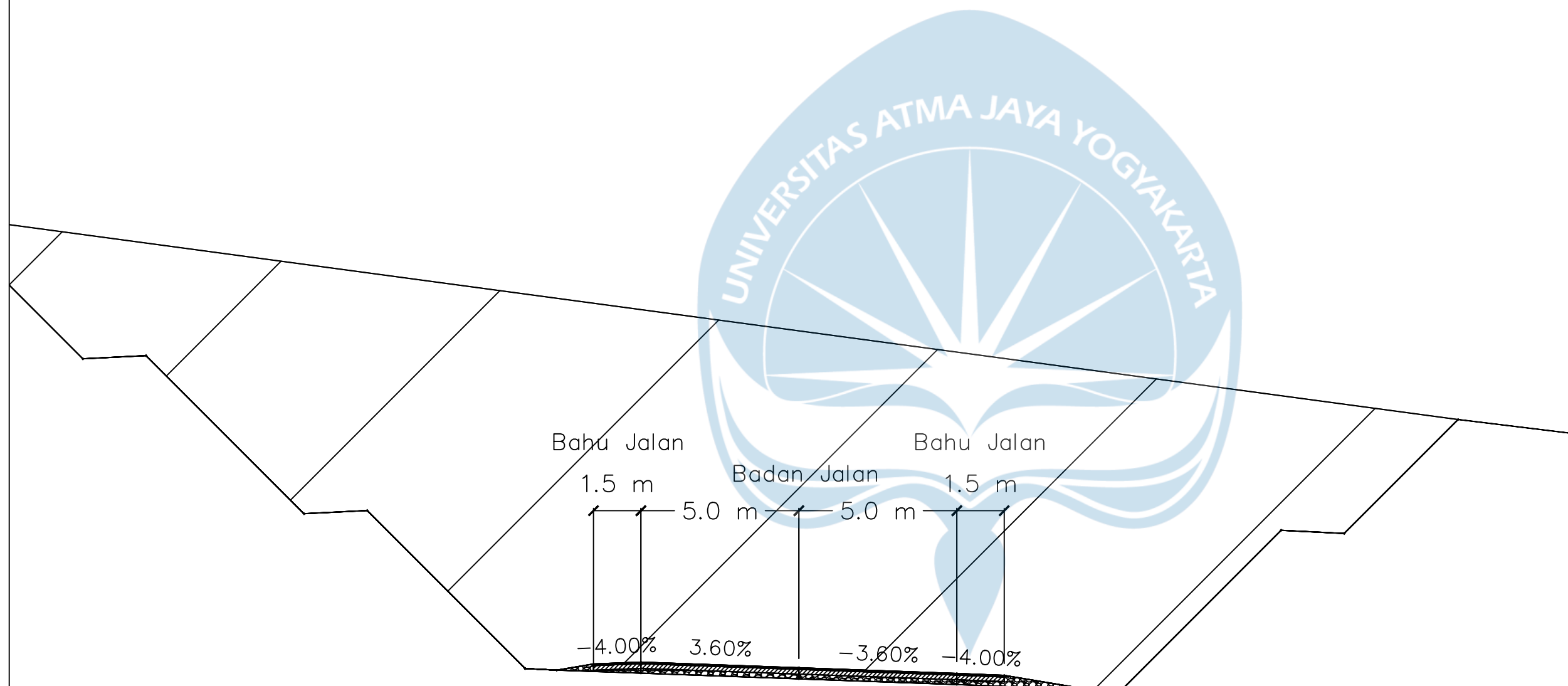
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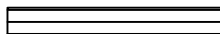
Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 150

1+115.62



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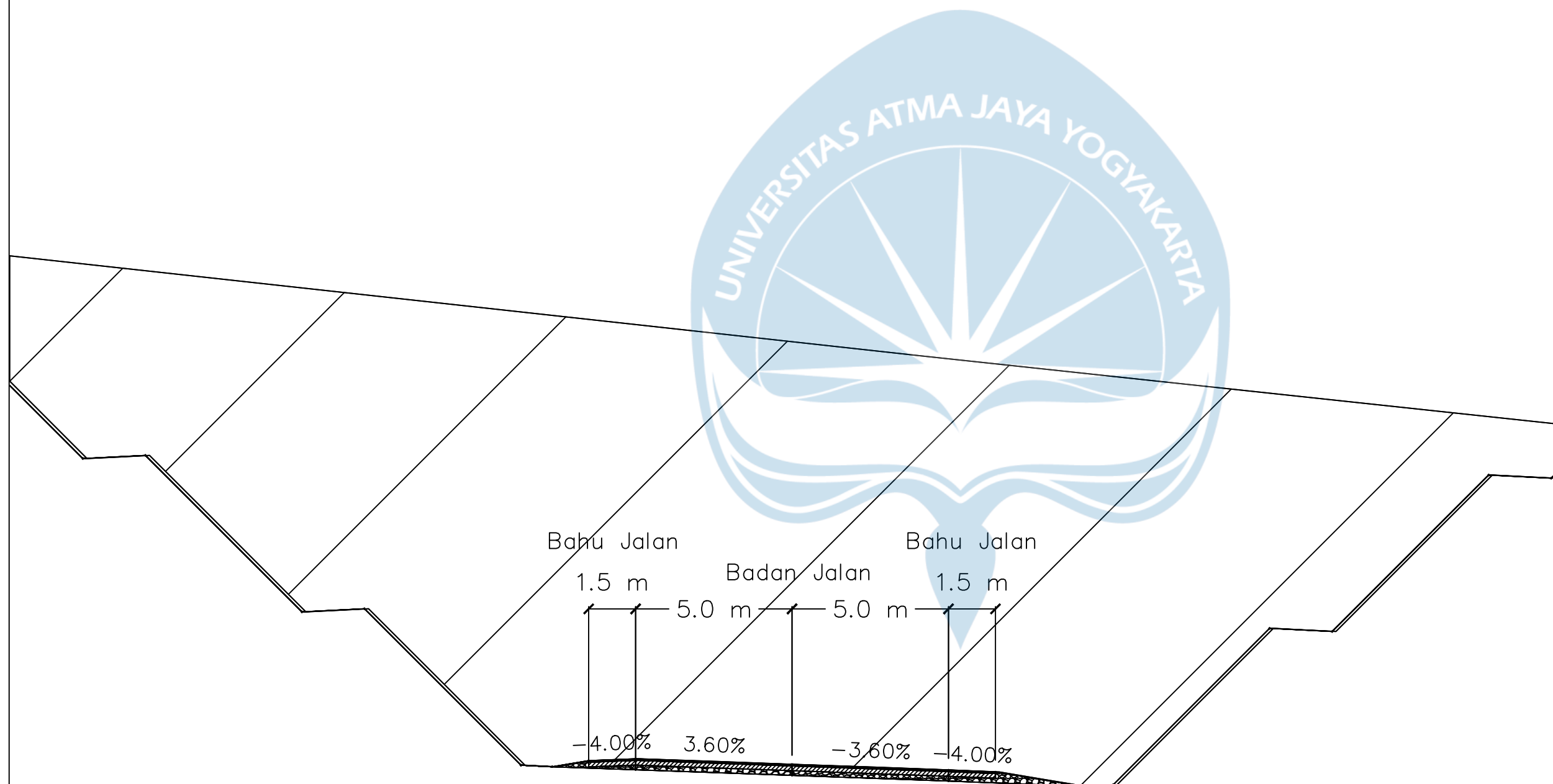
DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 150

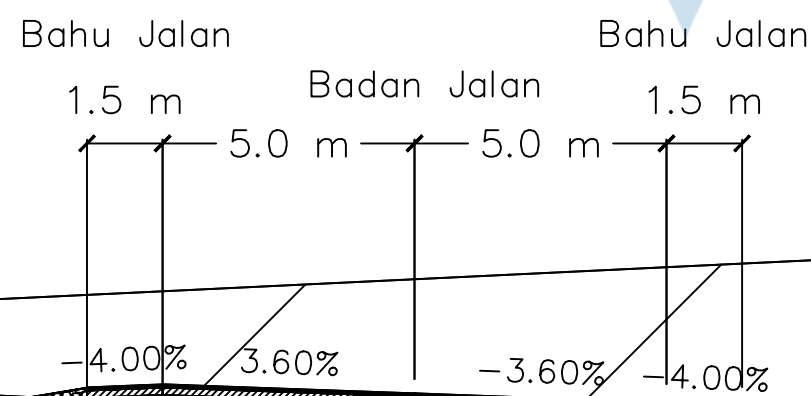
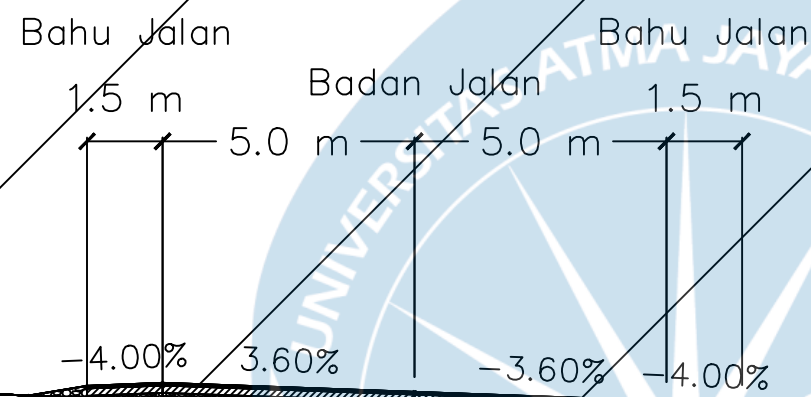
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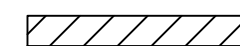
GALIAN

TIMBUNAN

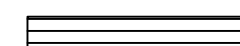
1+250.00



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TUGAS AKHIR PERANCANGAN
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TAHUN AJARAN 2024/2025

GAMBAR KERJA

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JUAN CAHYO PATABANG (210218862)

DISETUJUI

Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA

1 : 150



TUGAS AKHIR PERANCANGAN
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TAHUN AJARAN 2024/2025

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GABRIEL VITORIAN CHRISTALLO (210218572)
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DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 150

1+298.13

Bahu Jalan Bahu Jalan

1.5 m 5.0 m 5.0 m 1.5 m

3.60% 3.60%

-4.00% -3.60% -4.00%

1+300.00

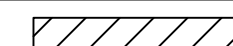
Bahu Jalan Bahu Jalan

1.5 m 5.0 m 5.0 m 1.5 m

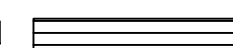
3.60% 3.60%

-4.00% -3.60% -4.00%

GALIAN



TIMBUNAN





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SEMESTER GENAP
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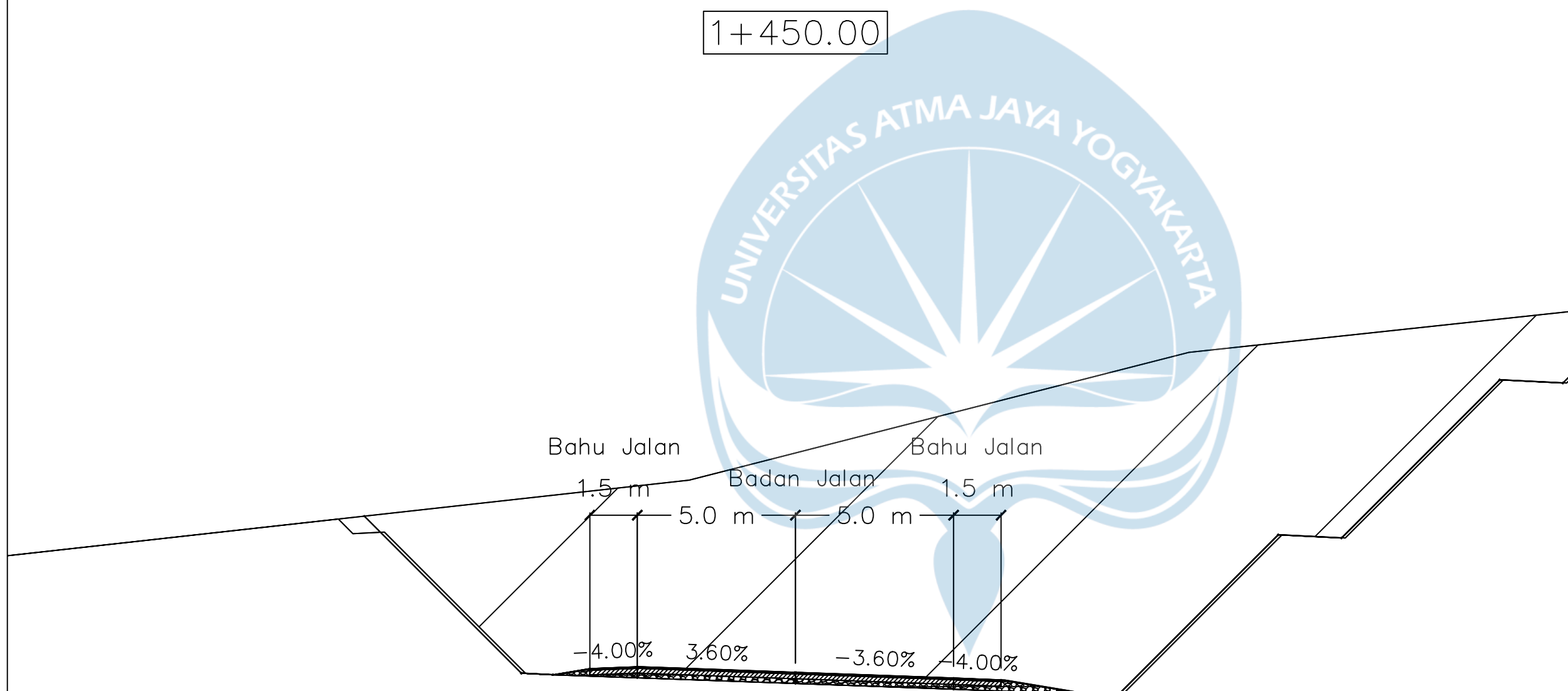
DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 150

1+450.00

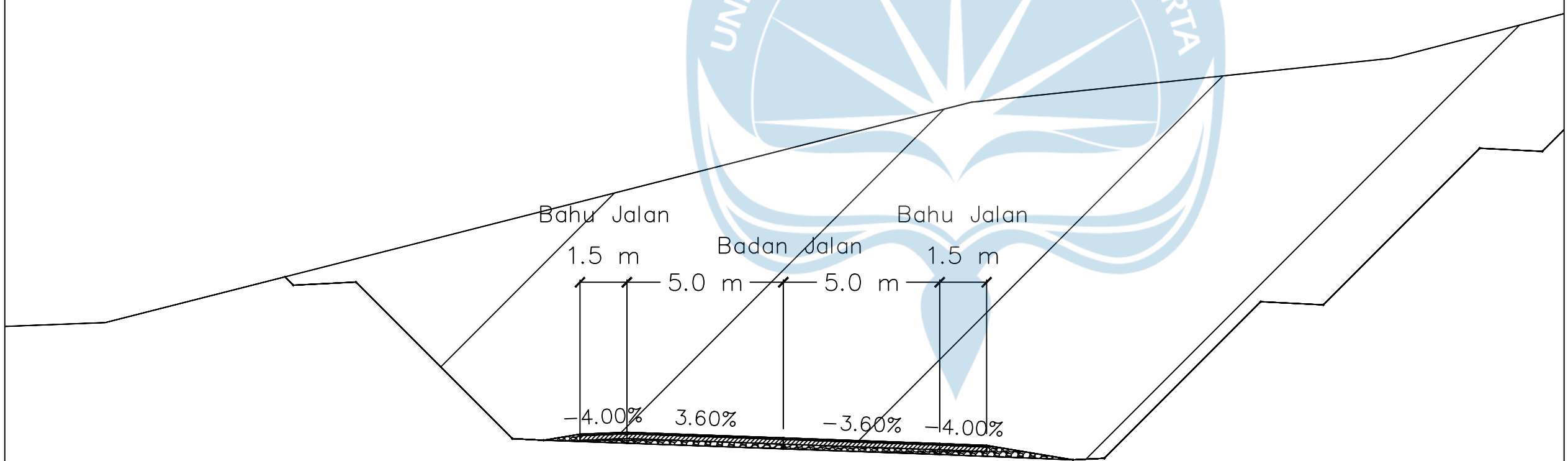


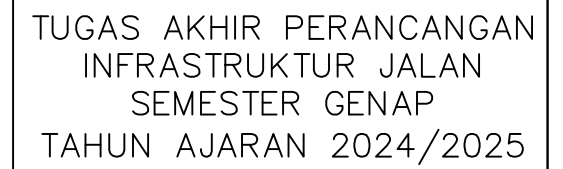
GALIAN

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Diagram illustrating a road cross-section with the following dimensions:

- Badan Jalan (Road Body): 5.0 m
- Bahu Jalan (Shoulder): 1.5 m





SECTION

GABRIEL VITORIAN CRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

Dr. Ir. J. Dwijoko Ansusanto, M.T.

1 : 150



TUGAS AKHIR PERANCANGAN
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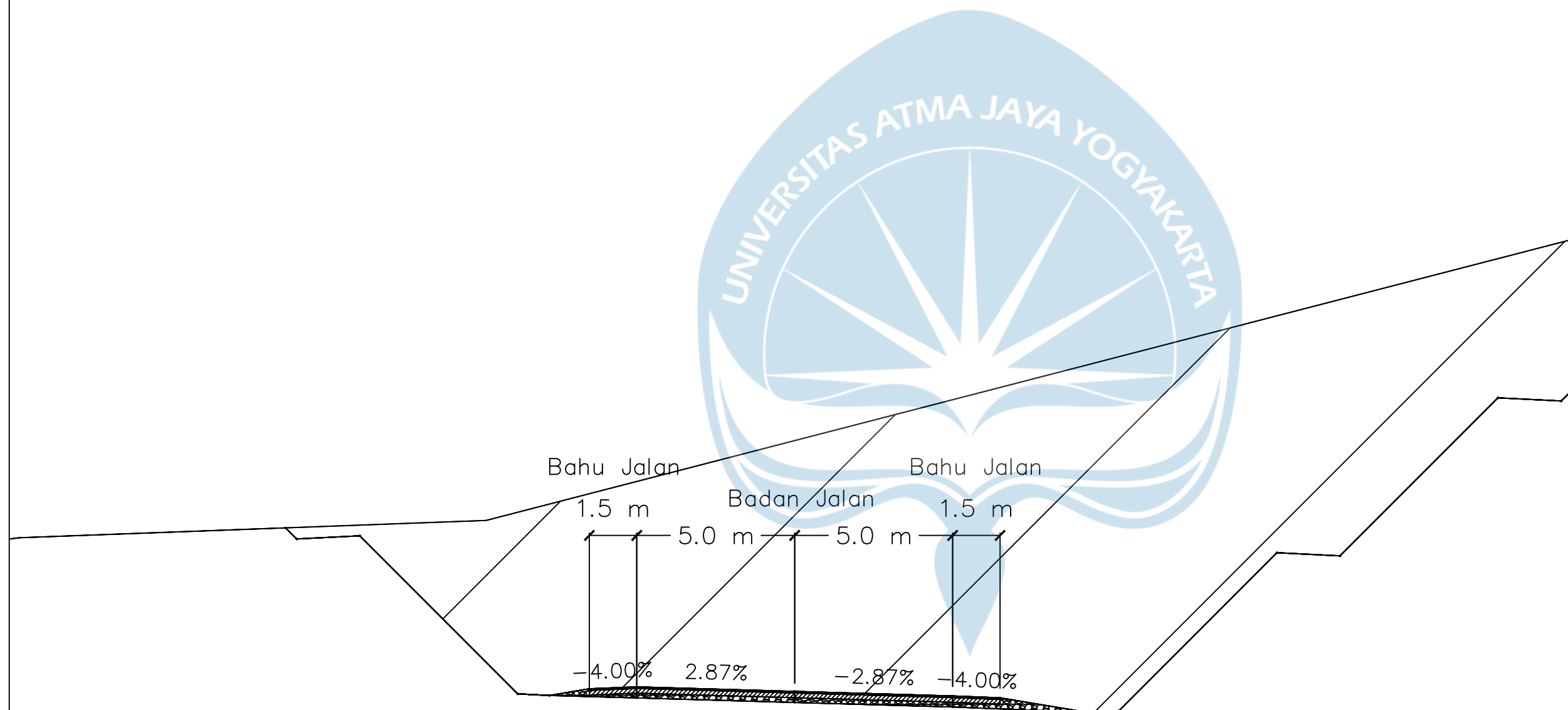
DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 150

1+500.00



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DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 150

1+522.86

Bahu Jalan

1.5 m

Badan Jalan

5.0 m

5.0 m

Bahu Jalan

1.5 m

-4.00%

2.00%

-2.00%

-4.00%

1+550.00

Bahu Jalan

1.5 m

Badan Jalan

5.0 m

5.0 m

Bahu Jalan

1.5 m

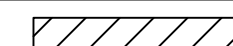
-4.00%

0.97%

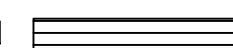
-2.00%

-4.00%

GALIAN

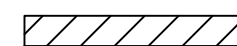


TIMBUNAN

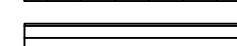


1 : 150

GALIAN



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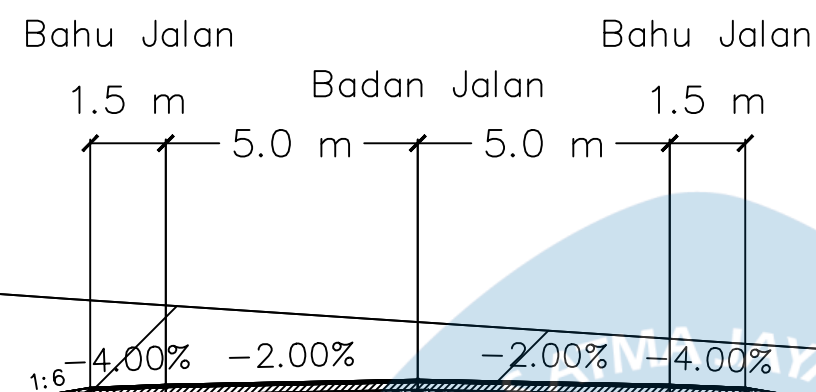
DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

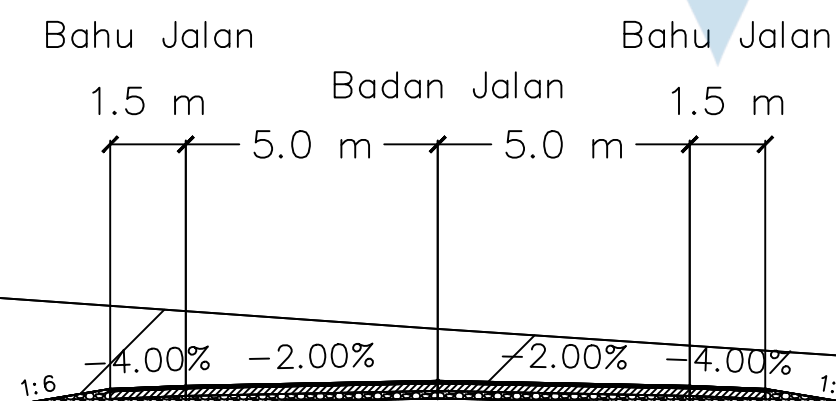
SKALA

1 : 150

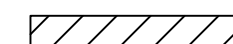
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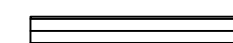
1+639.52



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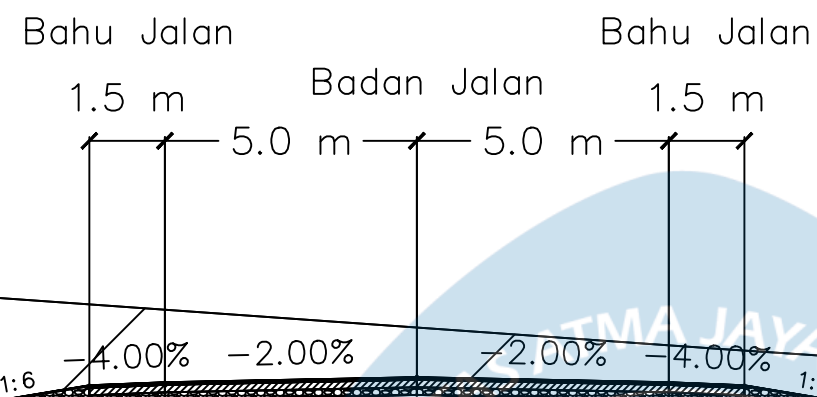
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Dr. Ir. J. Dwijoko Anusanto, M.T.

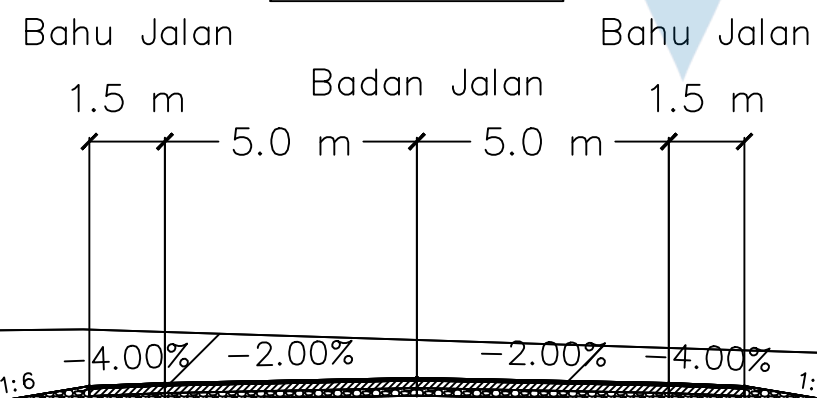
SKALA

1 : 150

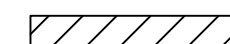
1+650.00



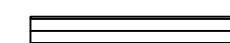
1+700.00



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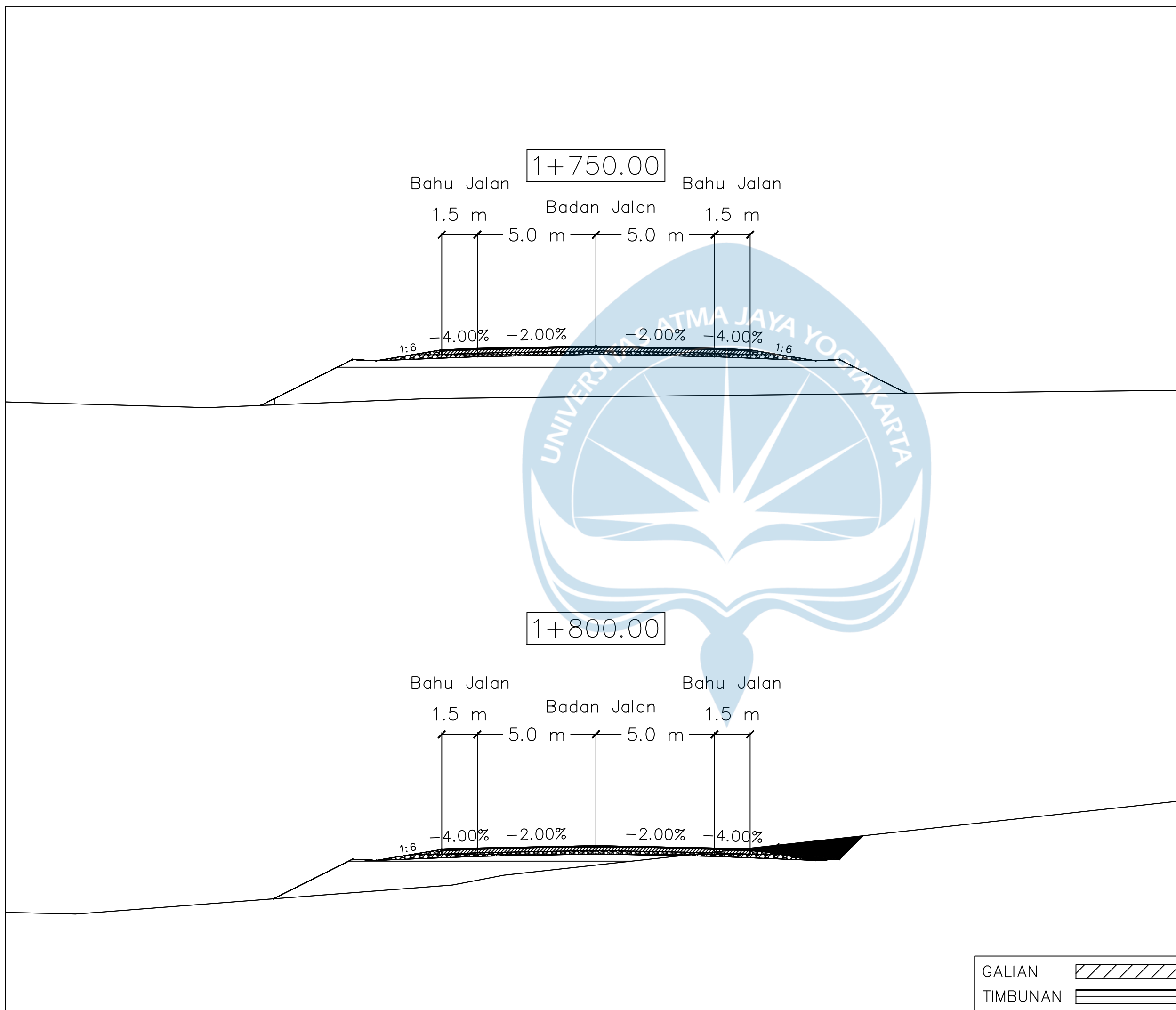
GABRIEL VITORIAN CHRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 150





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SECTION

DIGAMBAR & DISUSUN OLEH:

GABRIEL VITORIAN CHRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

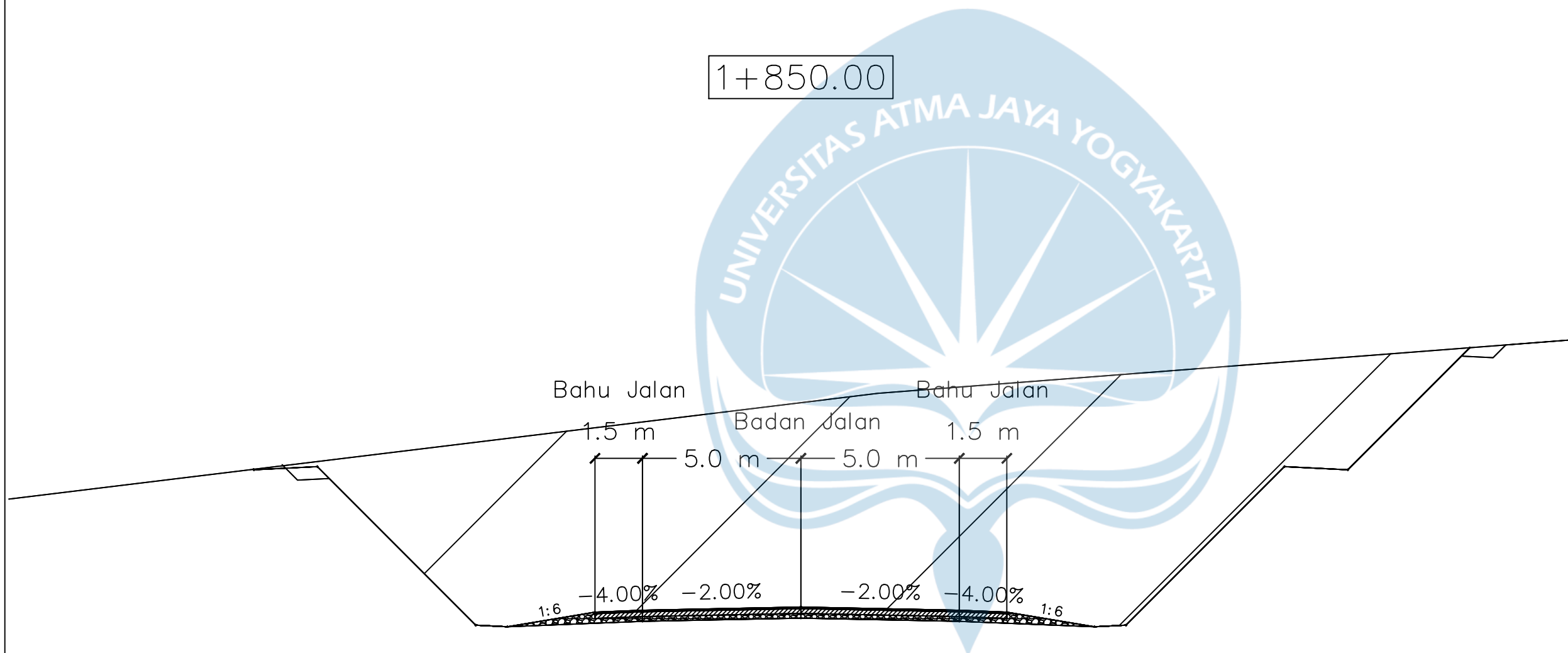
DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 150

1+850.00



GALIAN

TIMBUNAN



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

SECTION

DIGAMBAR & DISUSUN OLEH:

GABRIEL VITORIAN CHRISTALLO (210218572)
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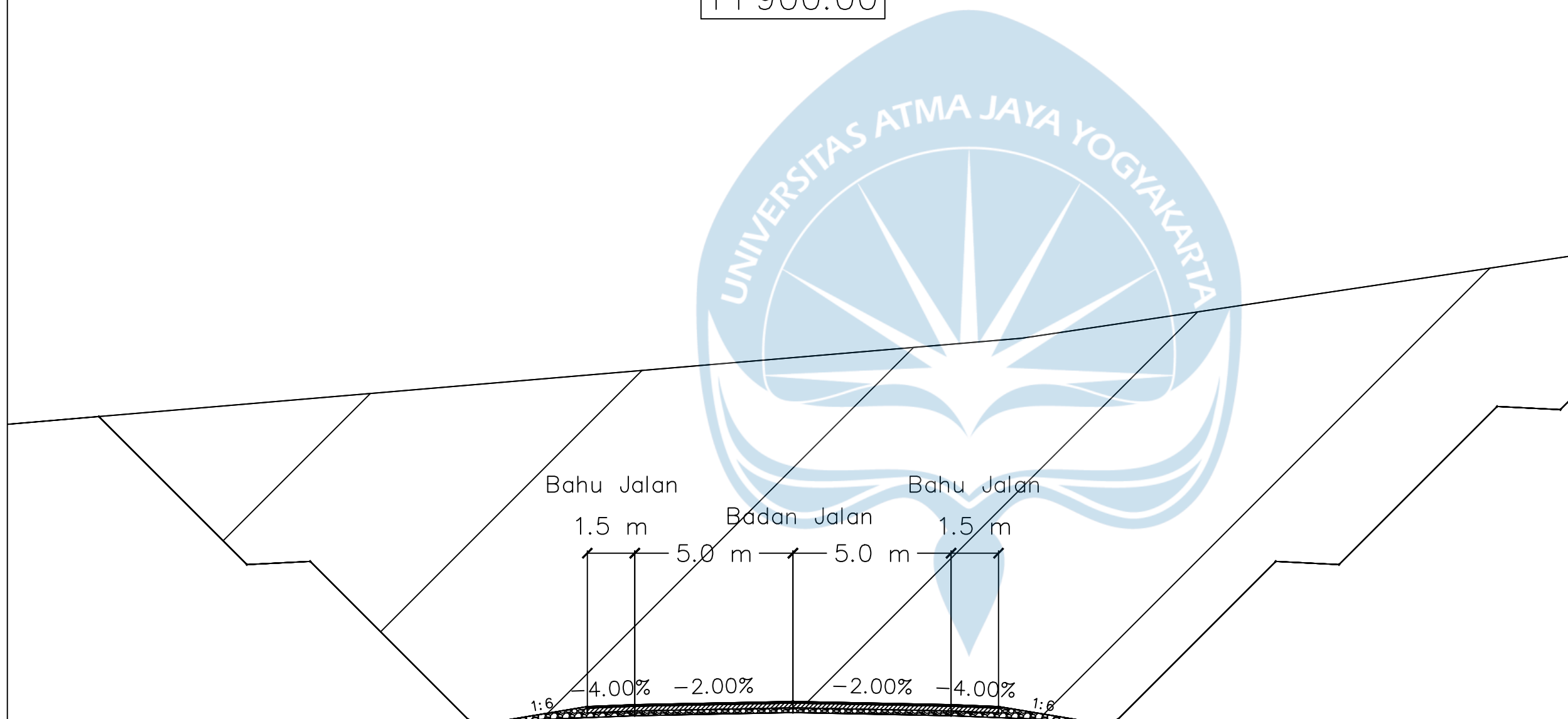
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Dr. Ir. J. Dwijoko Anusanto, M.T.

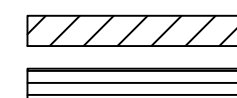
SKALA

1 : 150

1+900.00



GALIAN
TIMBUNAN





TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

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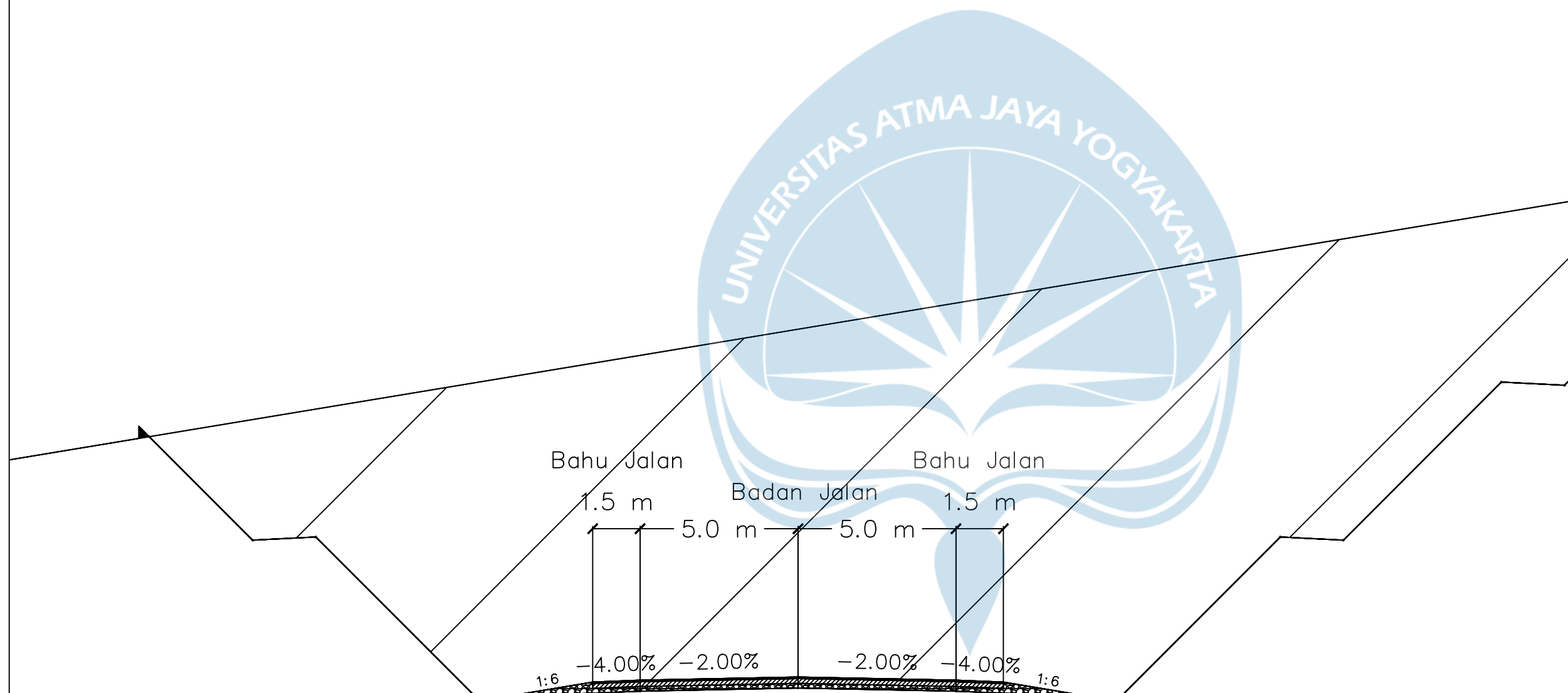
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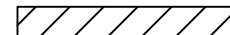
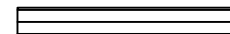
Dr. Ir. J. Dwijoko Anusanto, M.T.

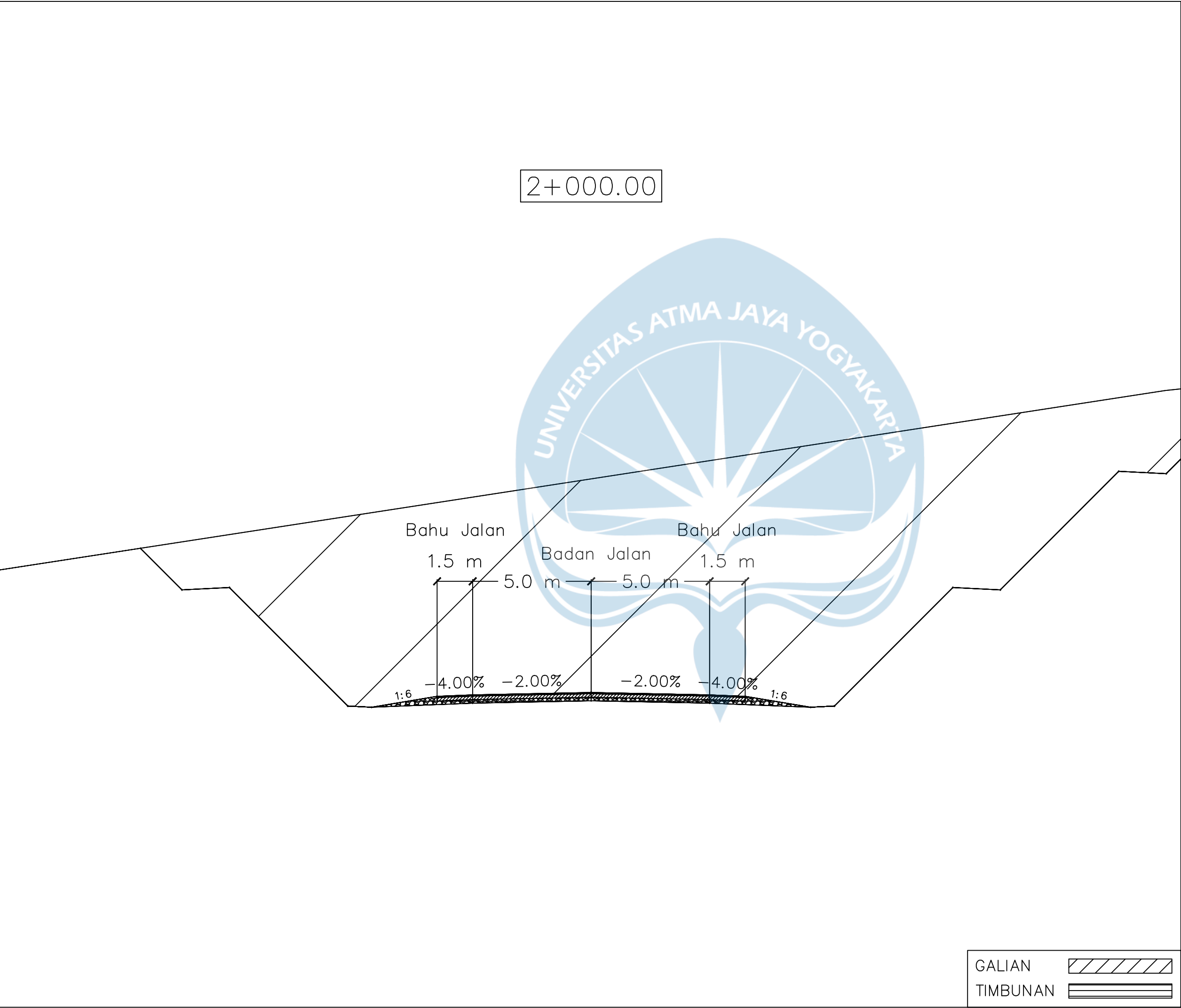
SKALA

1 : 150

1+950.00



GALIAN 
TIMBUNAN 



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

SECTION

DIGAMBAR & DISUSUN OLEH:

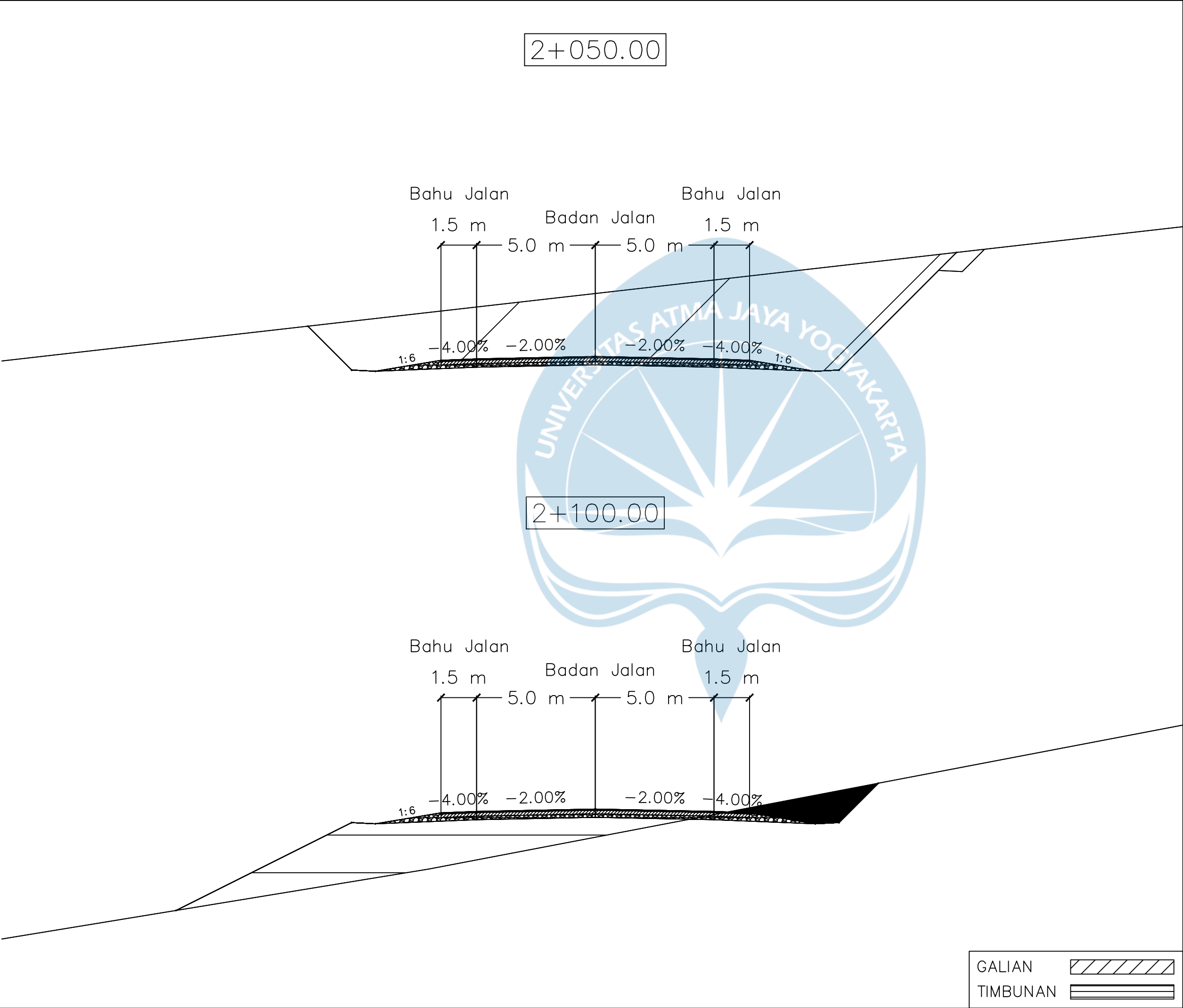
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JUAN CAHYO PATABANG (210218862)

DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 150



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

SECTION

DIGAMBAR & DISUSUN OLEH:

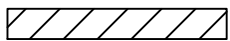
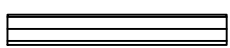
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JUAN CAHYO PATABANG (210218862)

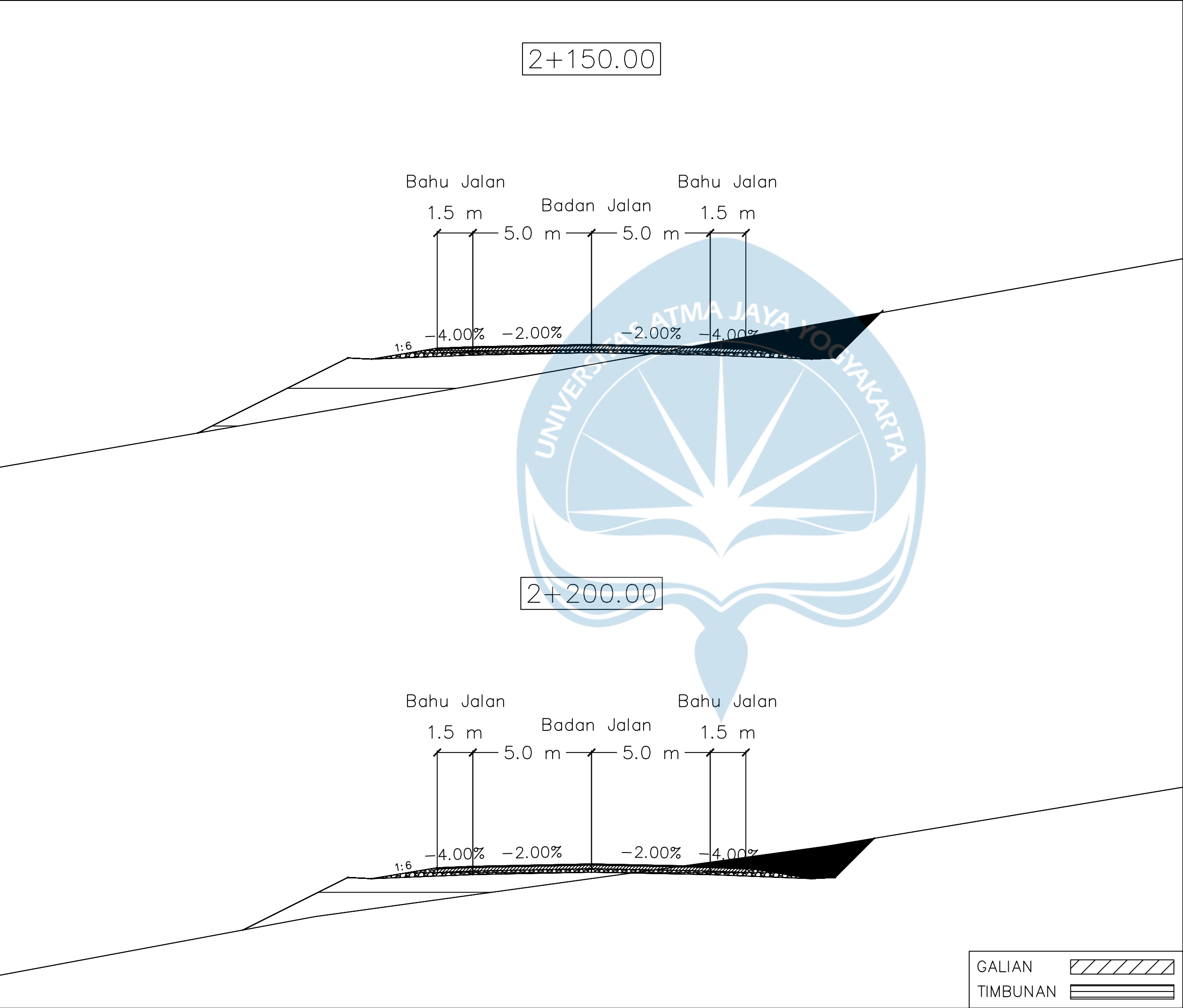
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Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

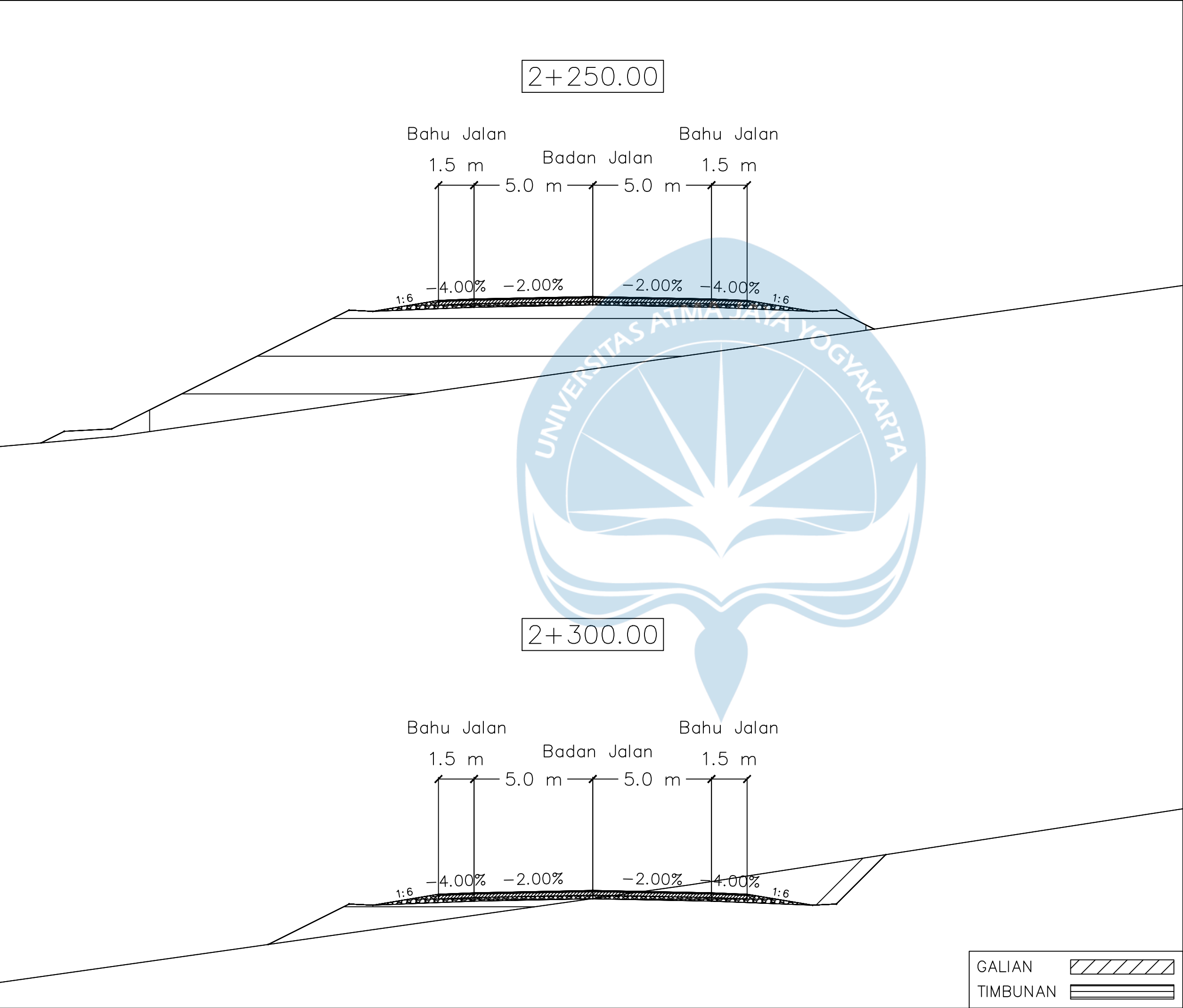
1 : 150

GALIAN 
TIMBUNAN 



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

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SECTION
DIGAMBAR & DISUSUN OLEH: GABRIEL VITORIAN CHRISTALLO (210218572) JUAN CAHYO PATABANG (210218862)
DISETUJUI
Dr. Ir. J. Dwijoko Anusanto, M.T.
SKALA
1 : 150



TUGAS AKHIR PERANCANGAN
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1 : 150



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SKALA

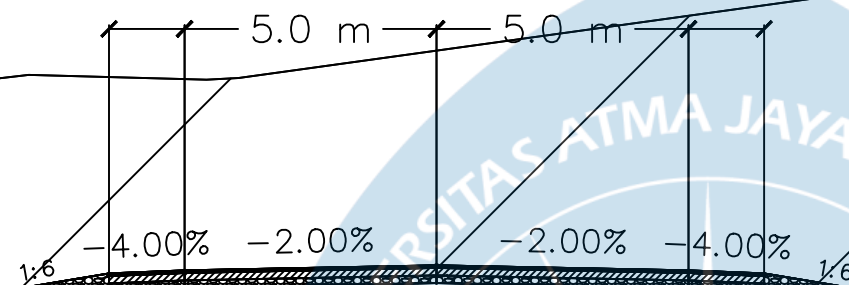
1 : 150

2+350.00

Bahu Jalan Bahu Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

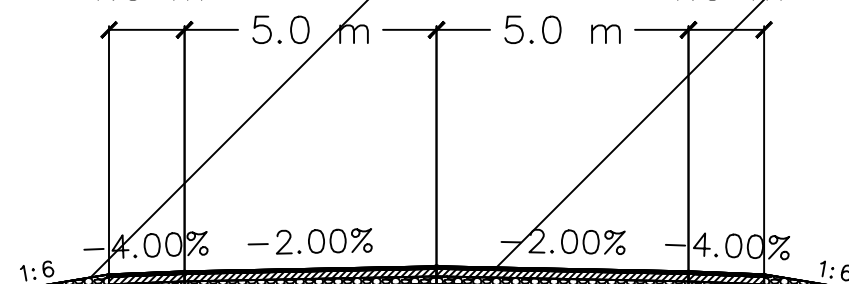


2+400.00

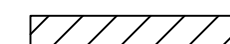
Bahu Jalan Bahu Jalan

1.5 m 5.0 m 5.0 m 1.5 m

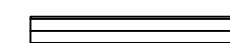
Badan Jalan



GALIAN



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TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

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DISETUJUI

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SKALA

1 : 150

2+450.00

Bahu Jalan Bahu Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

1:6 -4.00% -2.00% -2.00% -4.00% 1:6

2+500.00

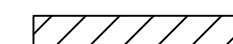
Bahu Jalan Bahu Jalan

1.5 m 5.0 m 5.0 m 1.5 m

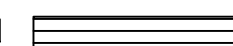
Badan Jalan

1:6 -4.00% -2.00% -2.00% -4.00% 1:6

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TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

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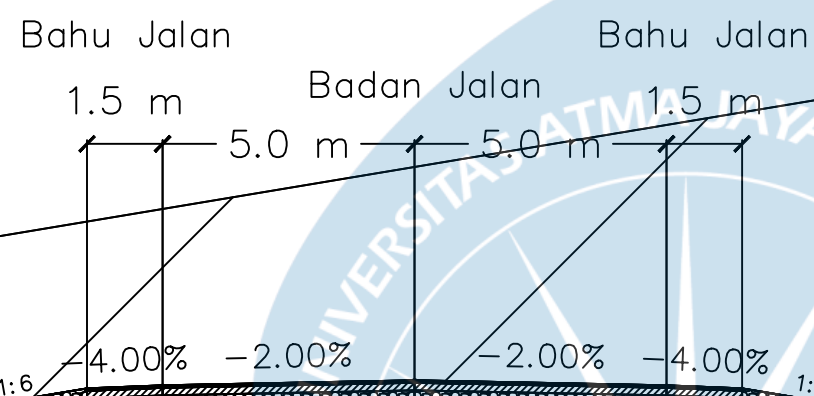
DISETUJUI

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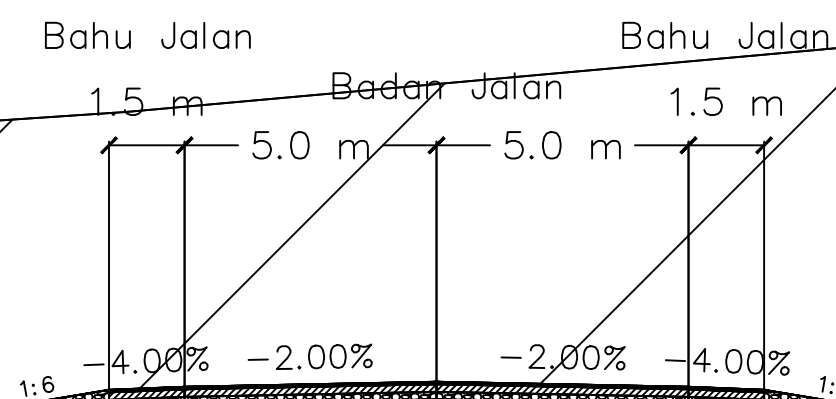
SKALA

1 : 150

2+550.00



2+600.00



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TUGAS AKHIR PERANCANGAN
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SEMESTER GENAP
TAHUN AJARAN 2024/2025

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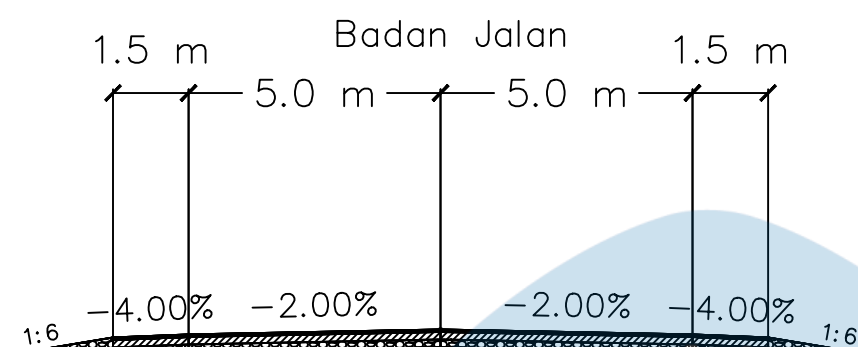
Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 150

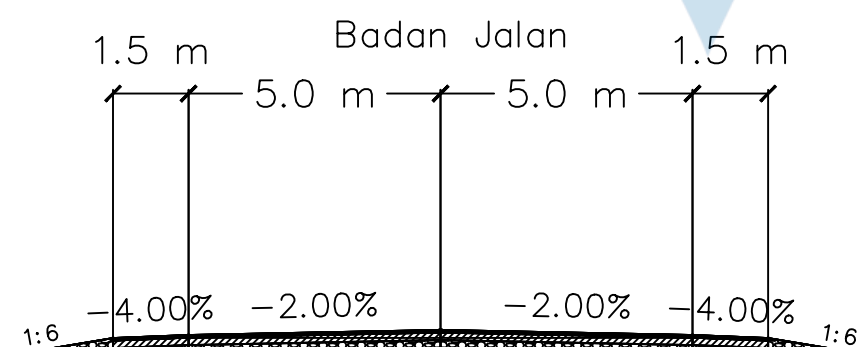
2+750.00

Bahu Jalan Bahu Jalan

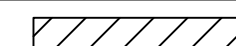


2+800.00

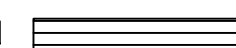
Bahu Jalan Bahu Jalan



GALIAN



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TUGAS AKHIR PERANCANGAN
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DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 150

2+850.00

Bahu Jalan Bahu Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

2+860.38

Bahu Jalan Bahu Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

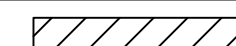
1.5 m 5.0 m 5.0 m 1.5 m

Badan Jalan

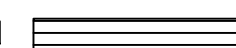
1.5 m 5.0 m 5.0 m 1.5 m

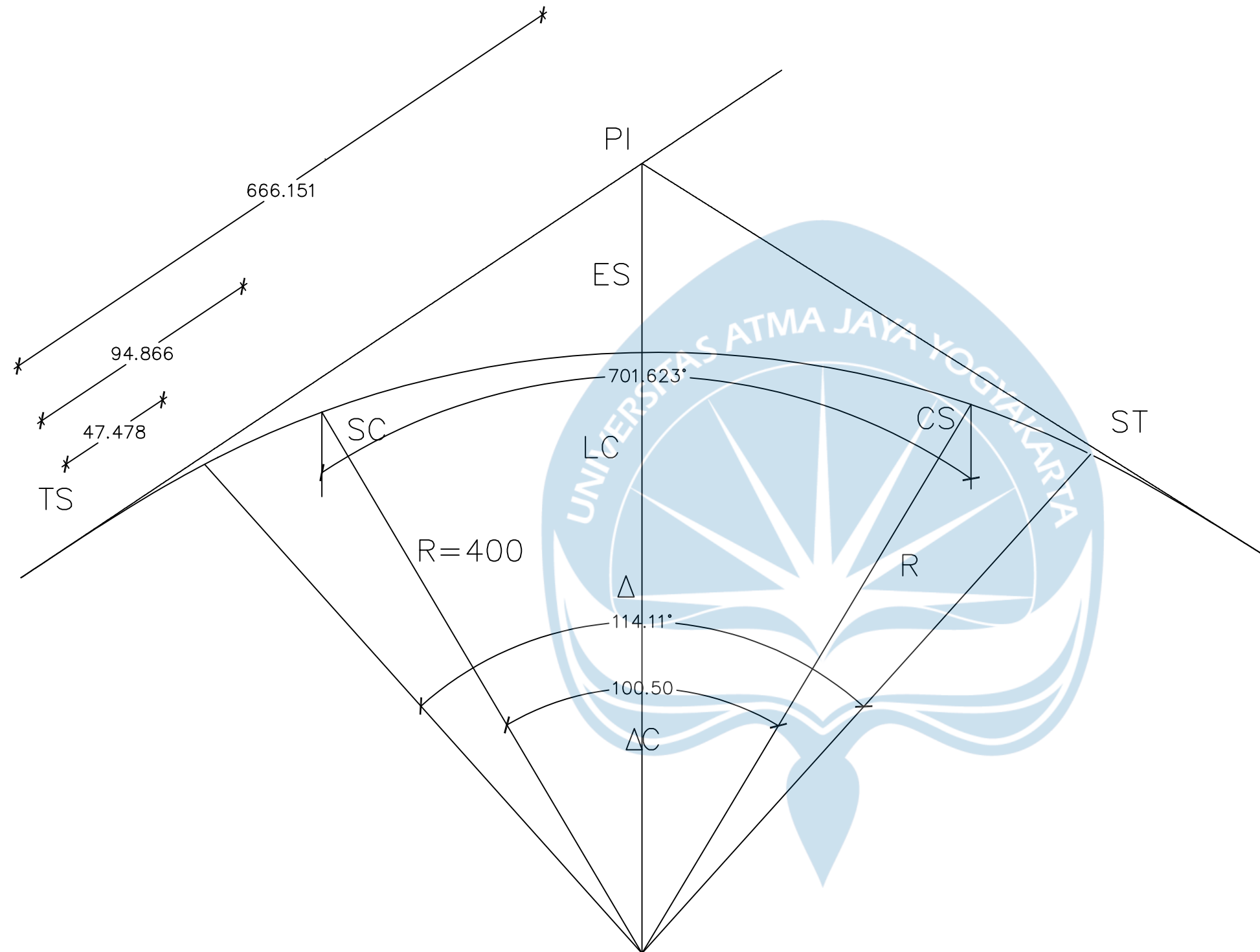
Badan Jalan

GALIAN



TIMBUNAN





Gambar Detail Tikungan 1
STA 0+661.785 sampai 1+553.408



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

Diagram Tikungan Trase 1

DIGAMBAR & DISUSUN OLEH:

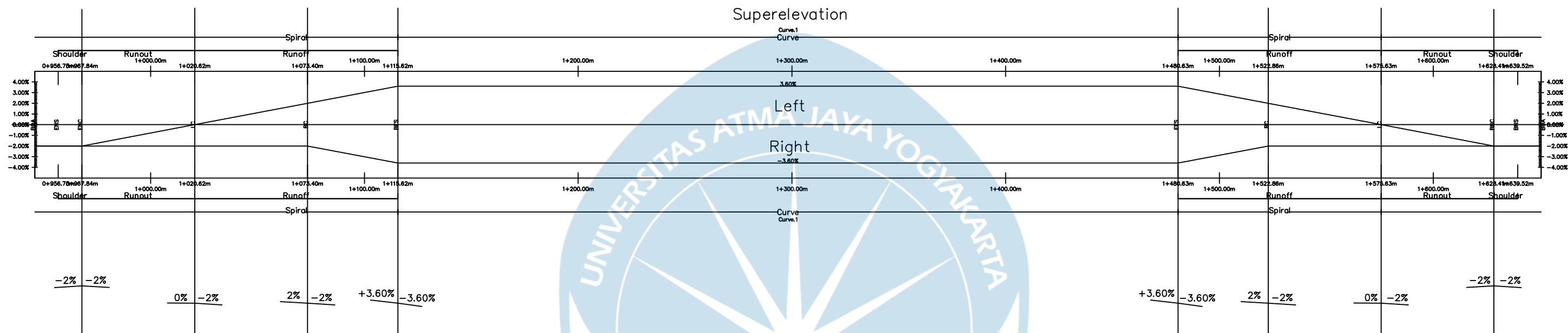
GABRIEL VITORIAN CRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 500



Gambar Diagram Superelevasi Tikungan 1 Type SCS



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
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TAHUN AJARAN 2024/2025

GAMBAR KERJA

Diagram Superelevasi Trase 1

DIGAMBAR & DISUSUN OLEH:

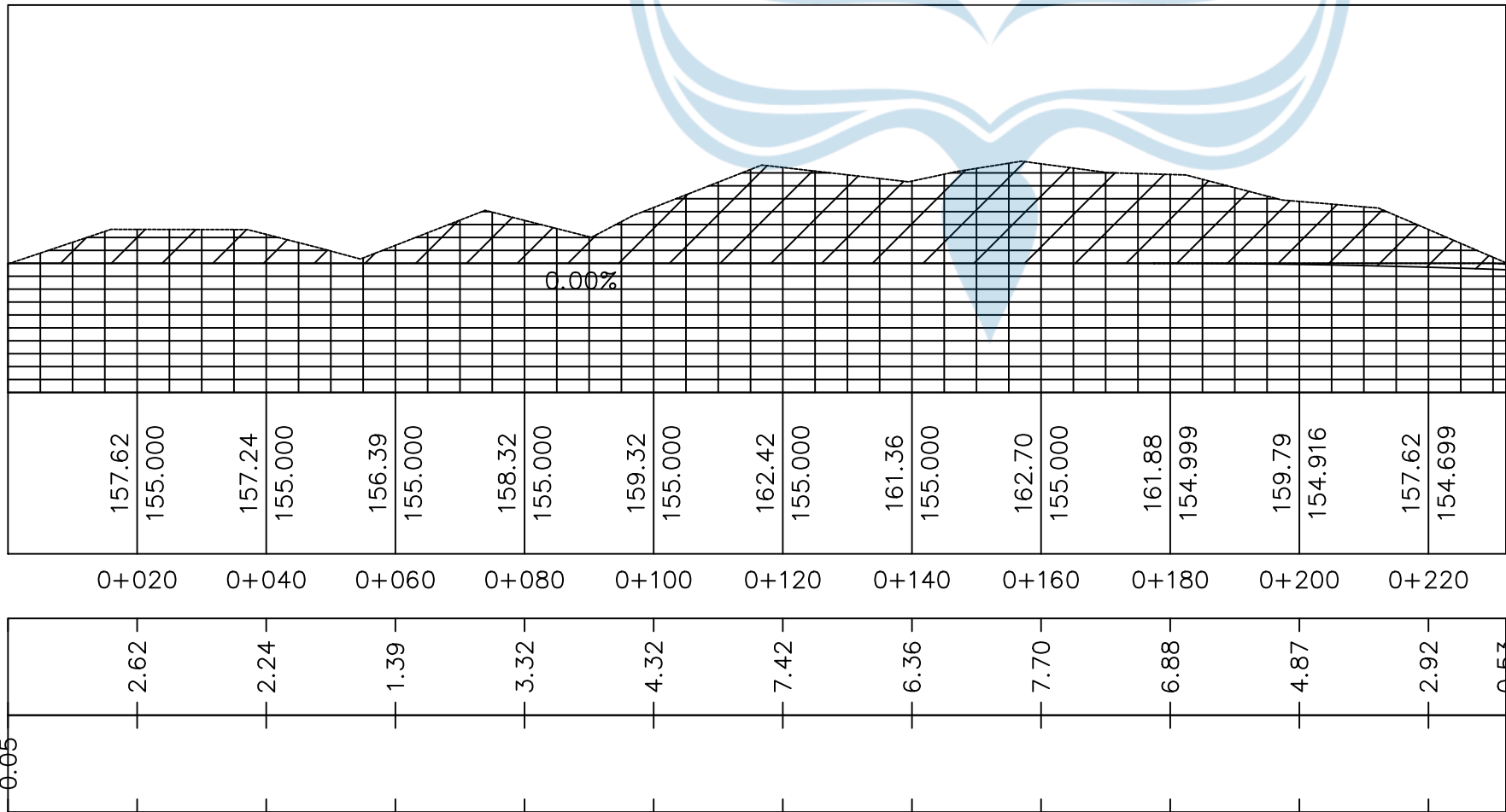
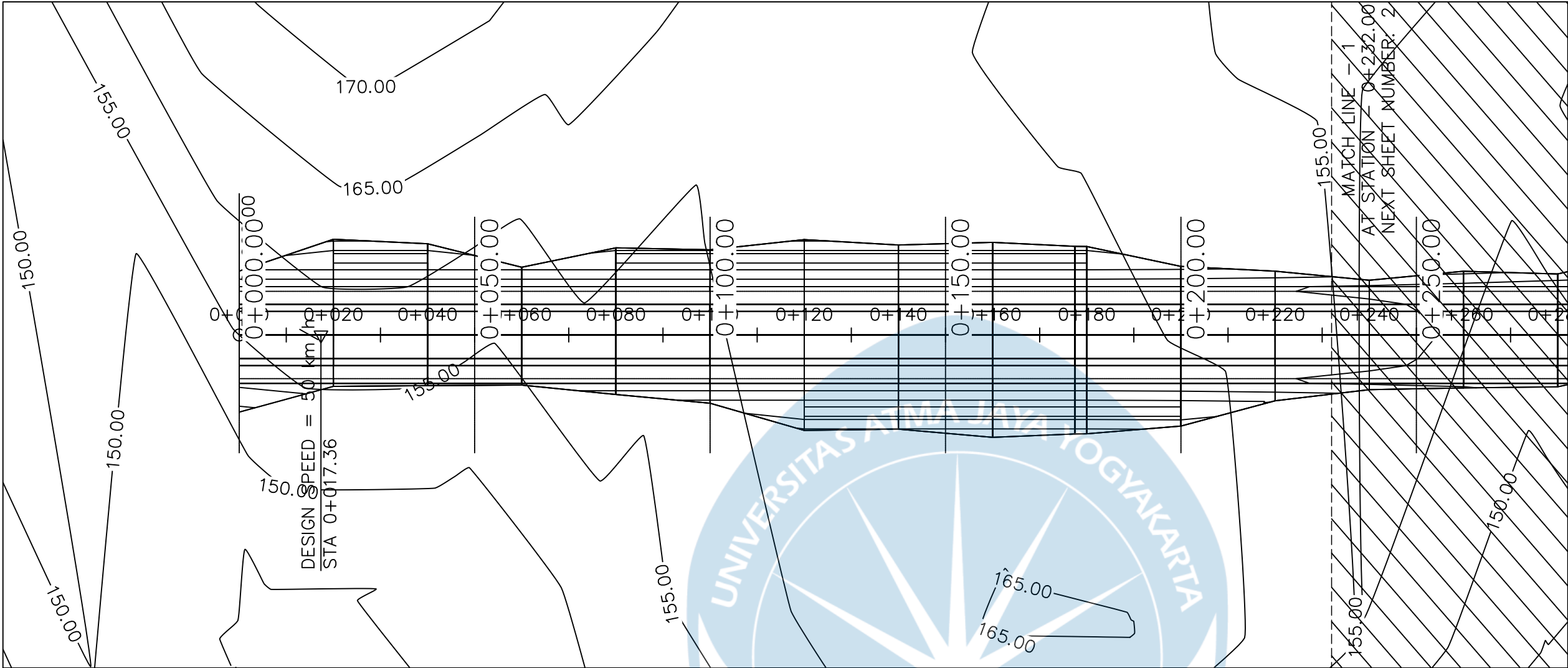
GABRIEL VITORIAN CHRISTALLO (210218572)
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SKALA

1 : 500



TUGAS AKHIR PERANCANGAN
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SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

PLAN & PROFILE JALAN

DIGAMBAR & DISUSUN OLEH:

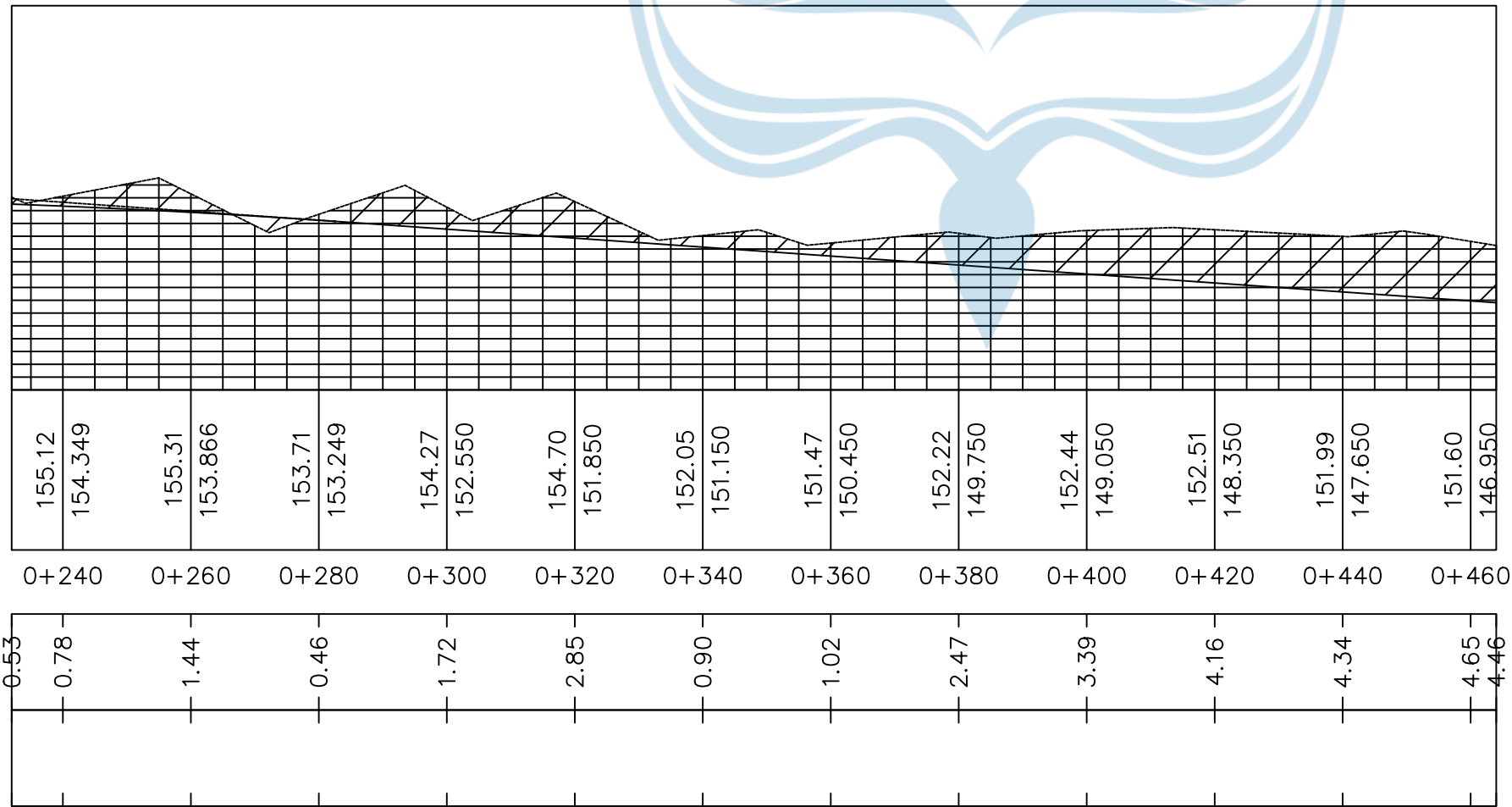
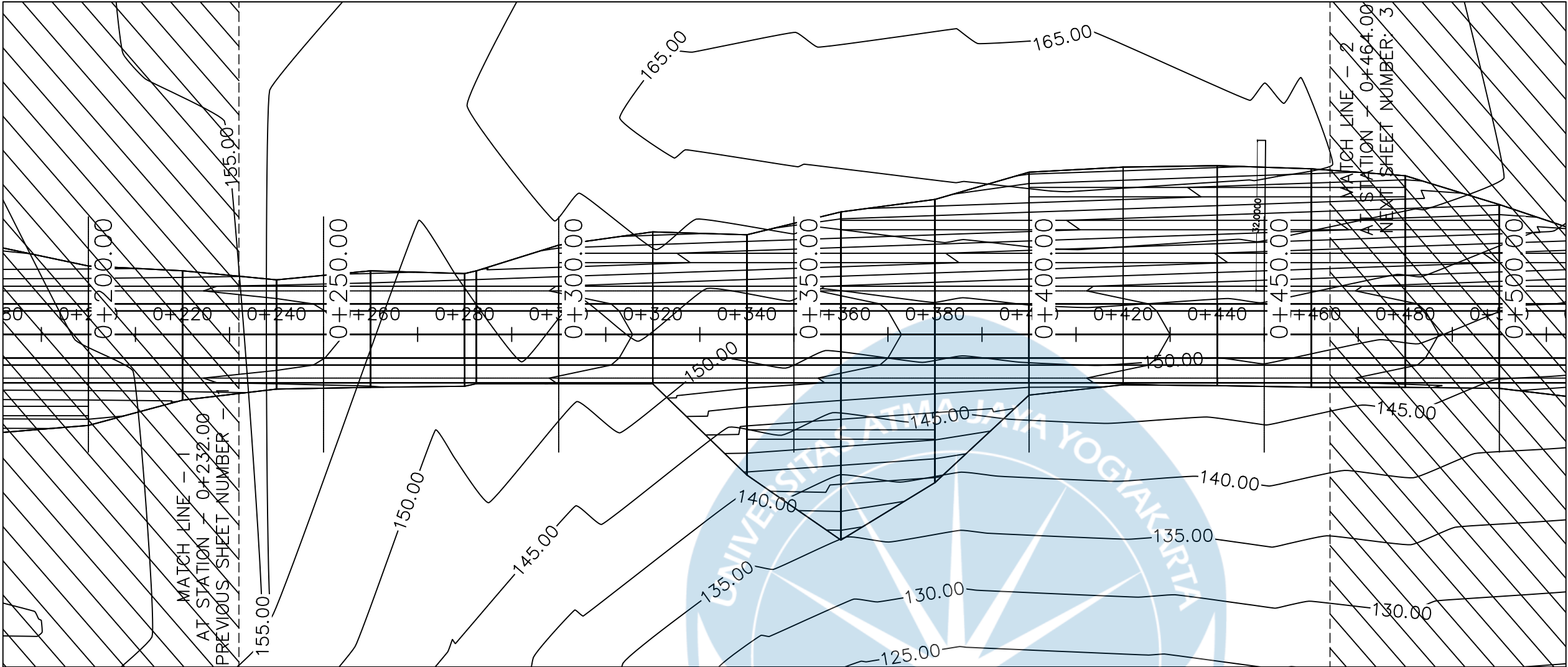
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DISETUJUI

Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA

1 : 1000



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INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

PLAN & PROFILE JALAN

DIGAMBAR & DISUSUN OLEH:

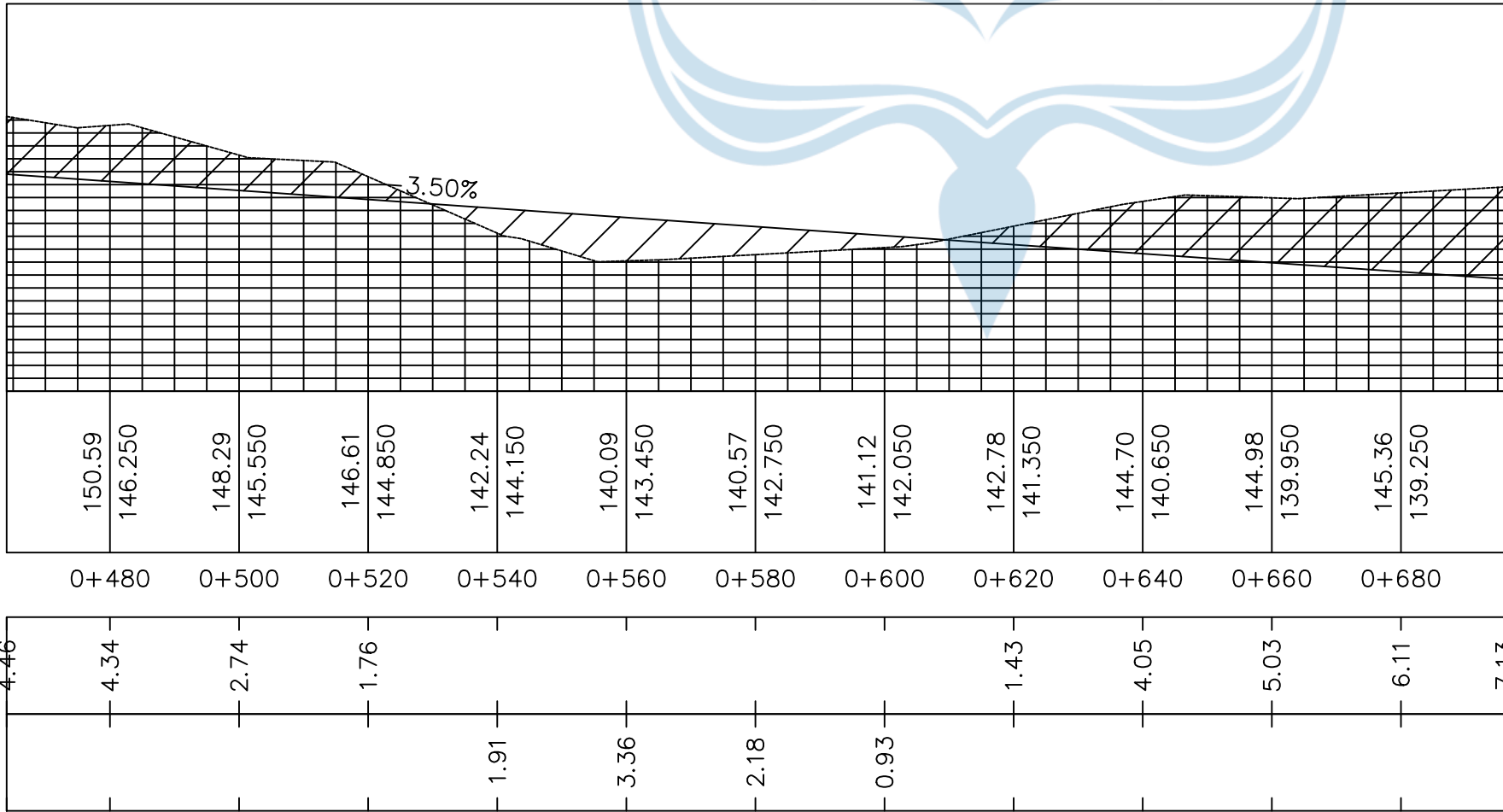
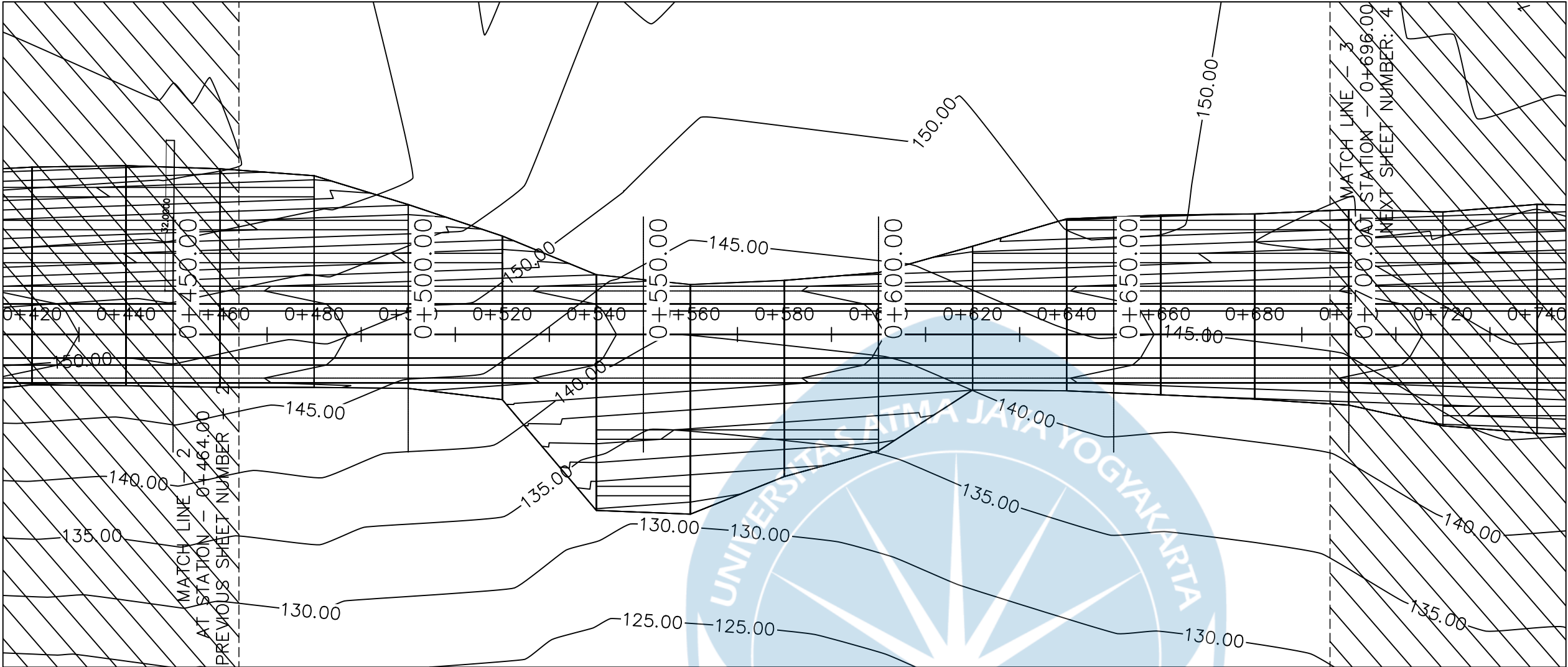
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1 : 1000



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TAHUN AJARAN 2024/2025

GAMBAR KERJA

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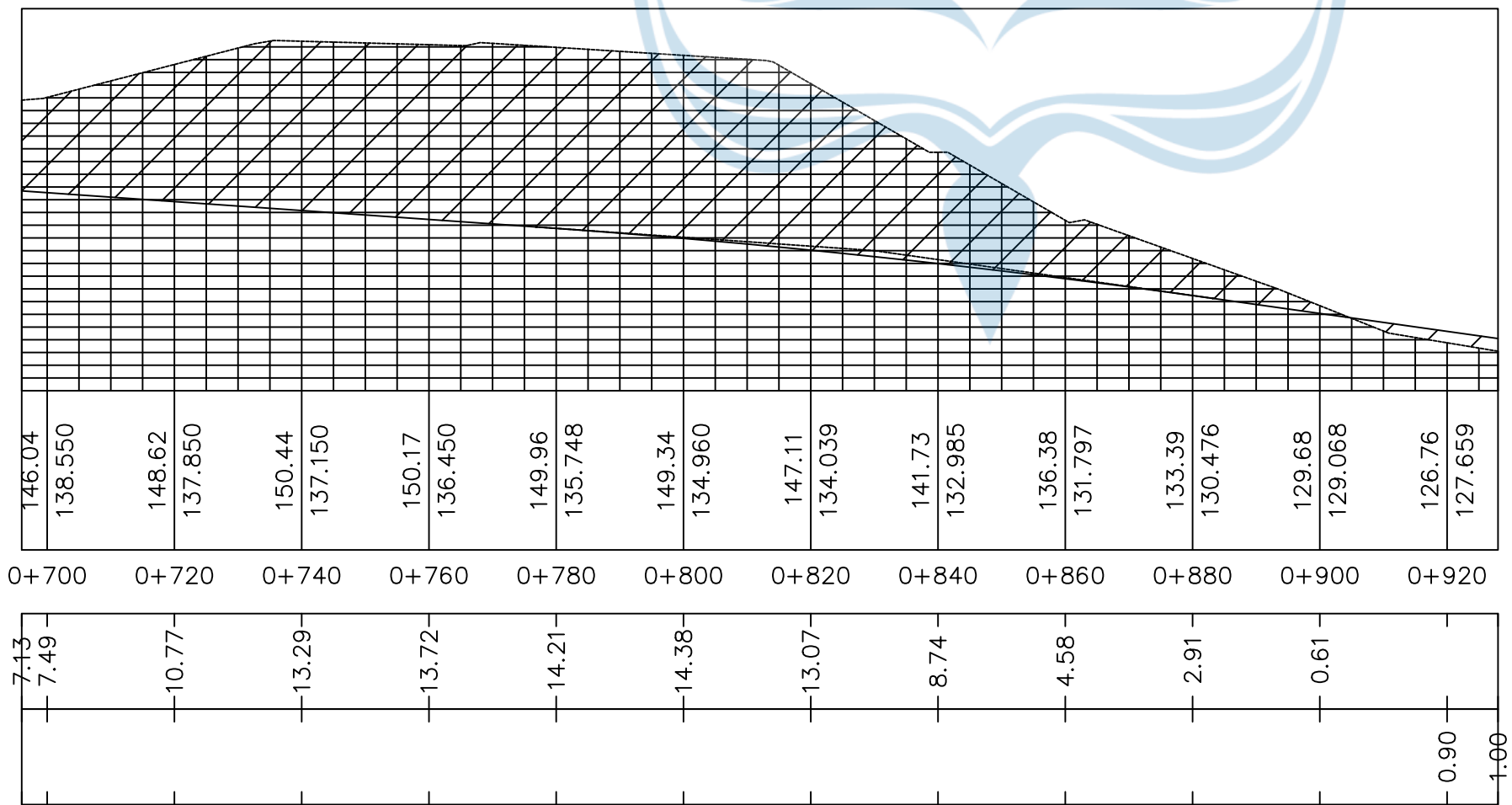
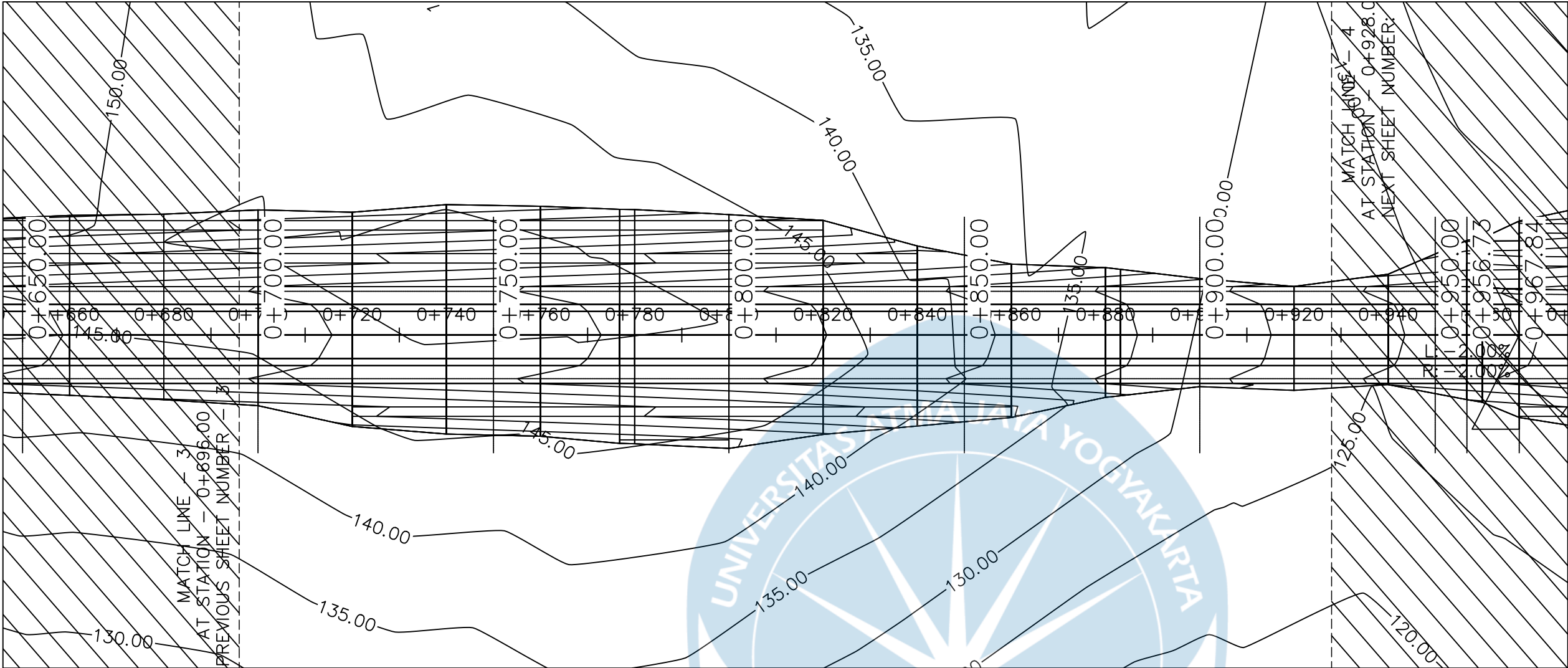
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SKALA

1 : 1000



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TAHUN AJARAN 2024/2025

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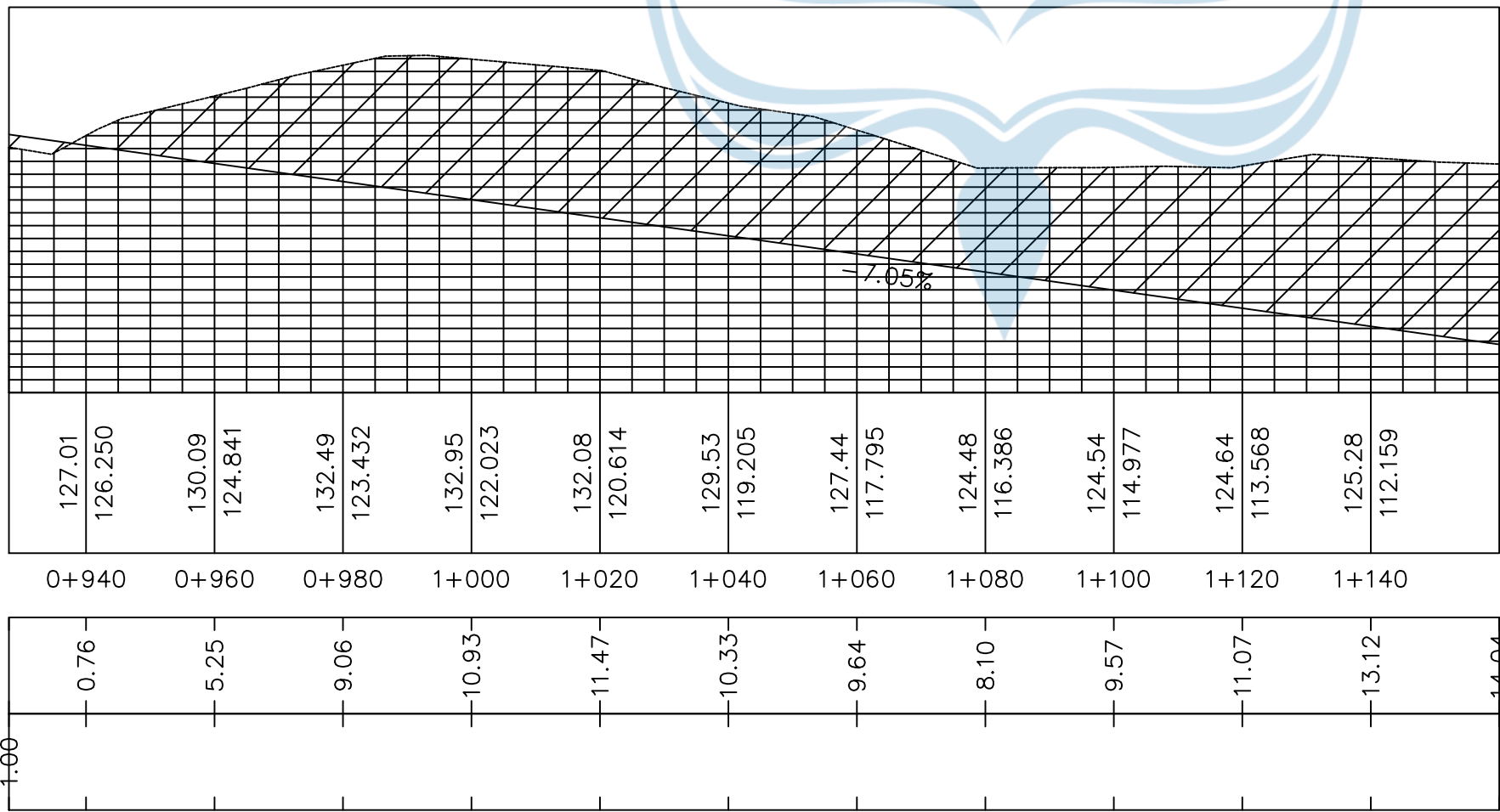
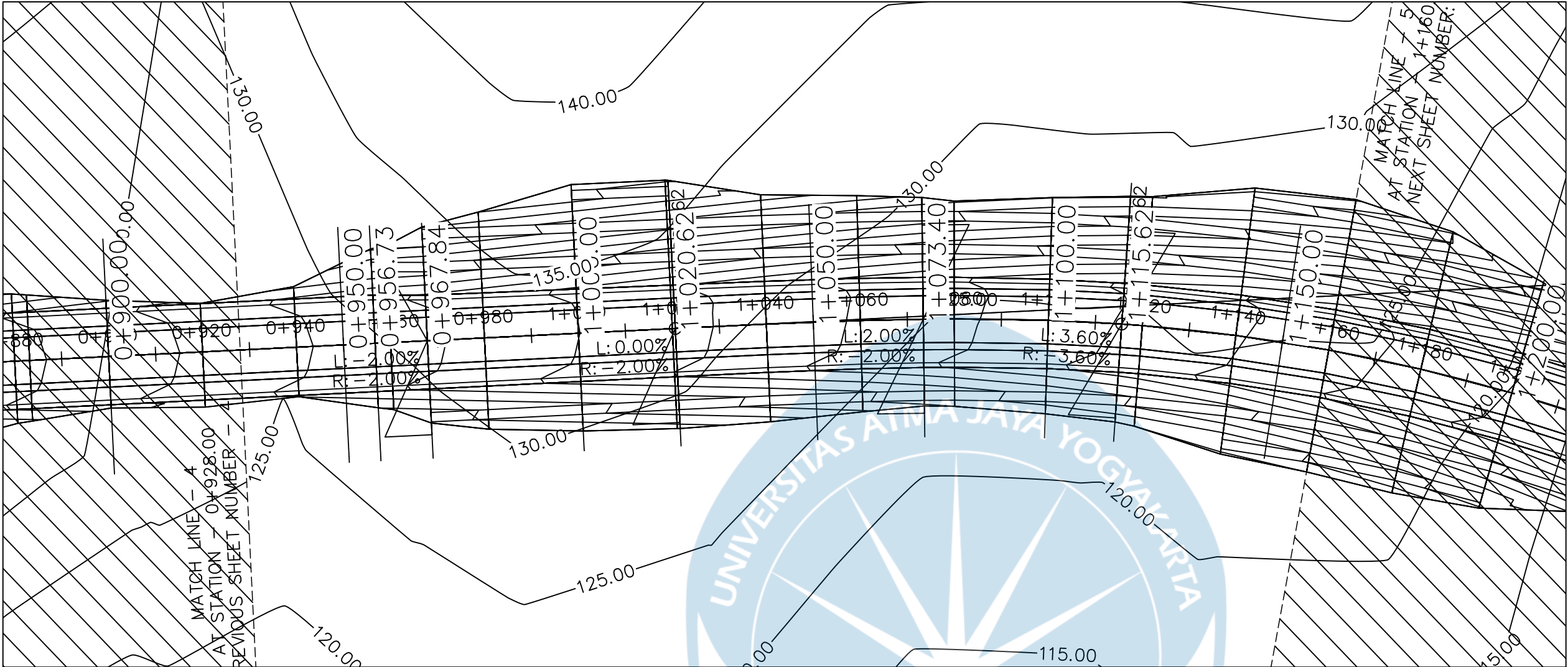
GABRIEL VITORIAN CHRISTALLO (210218572)
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DISETUJUI

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TAHUN AJARAN 2024/2025

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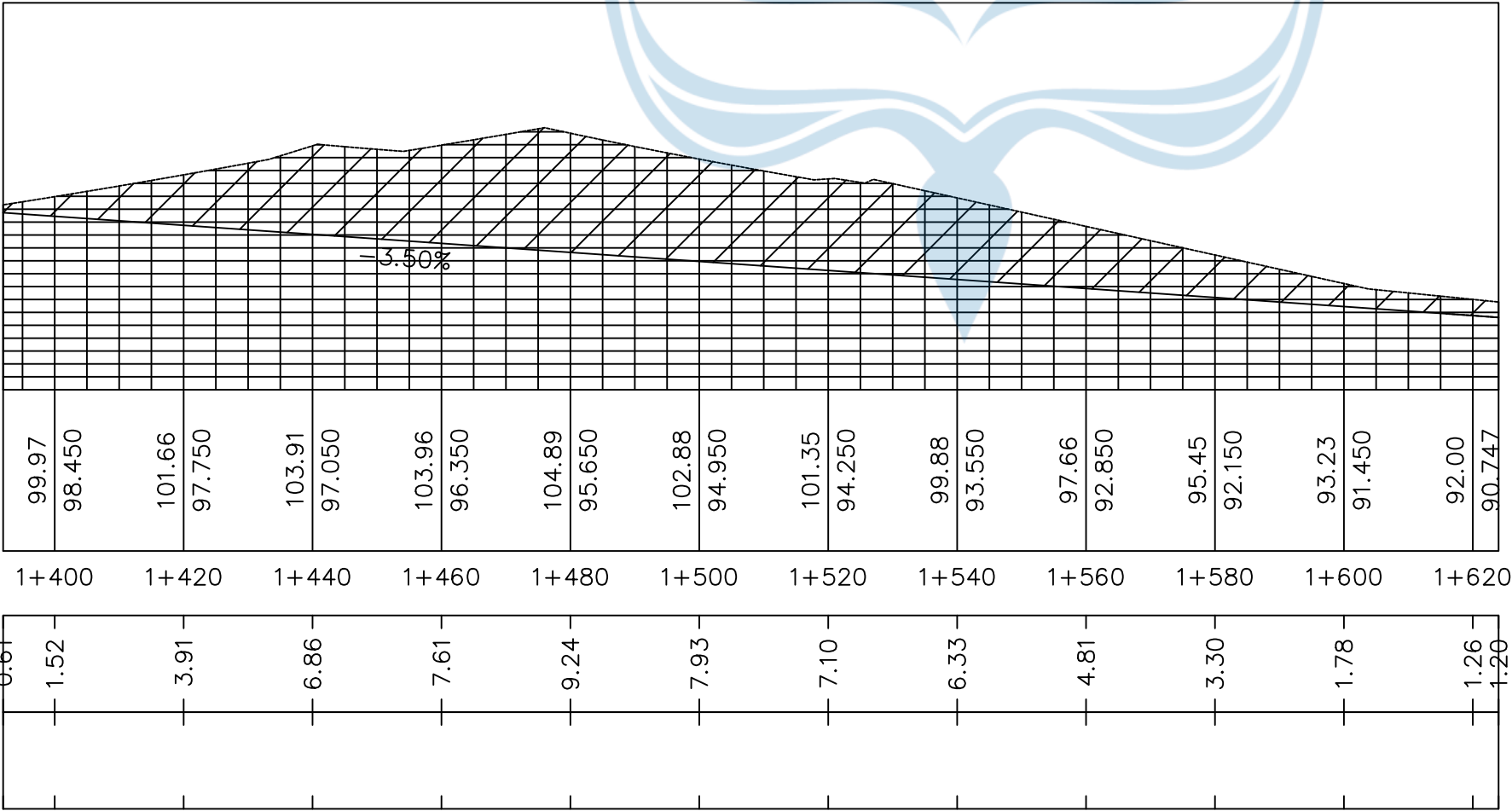
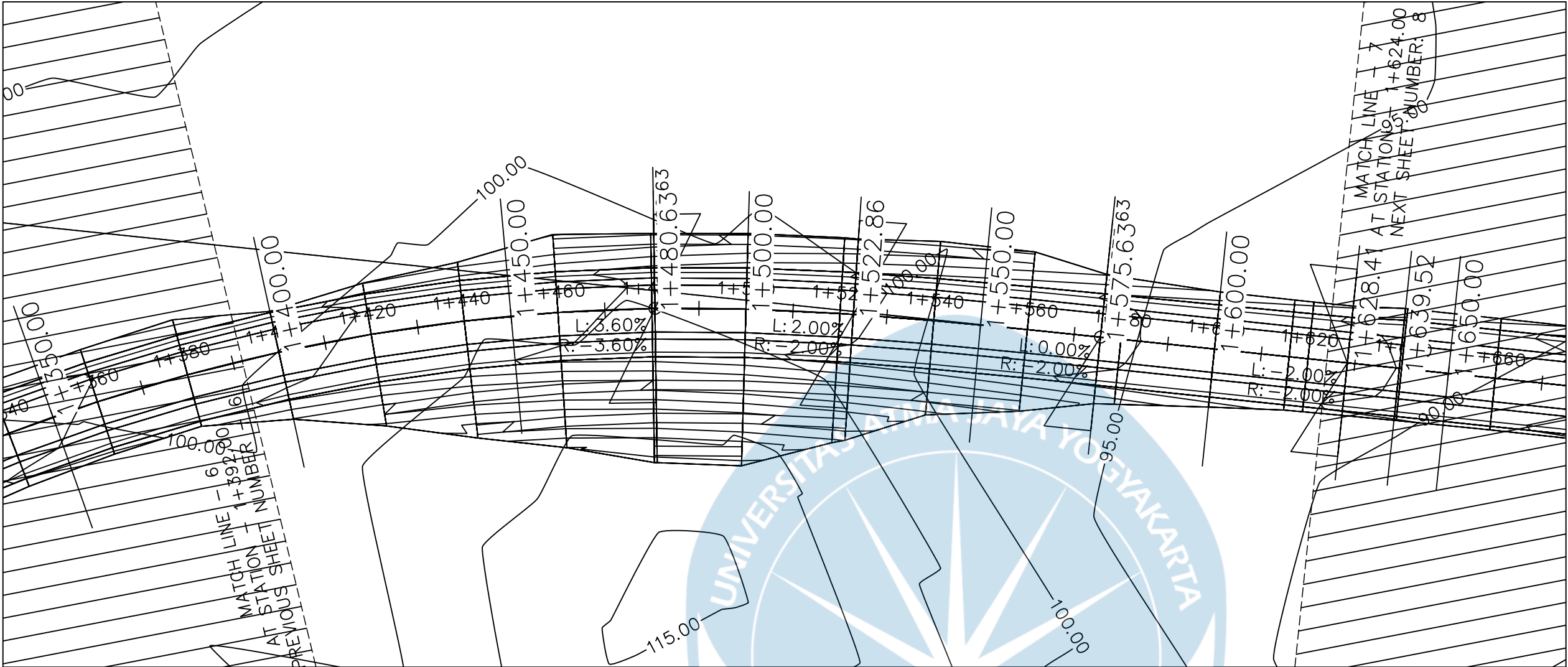
GABRIEL VITORIAN CHRISTALLO (210218572)
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DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 1000



Cut
Fill



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

PLAN & PROFILE JALAN

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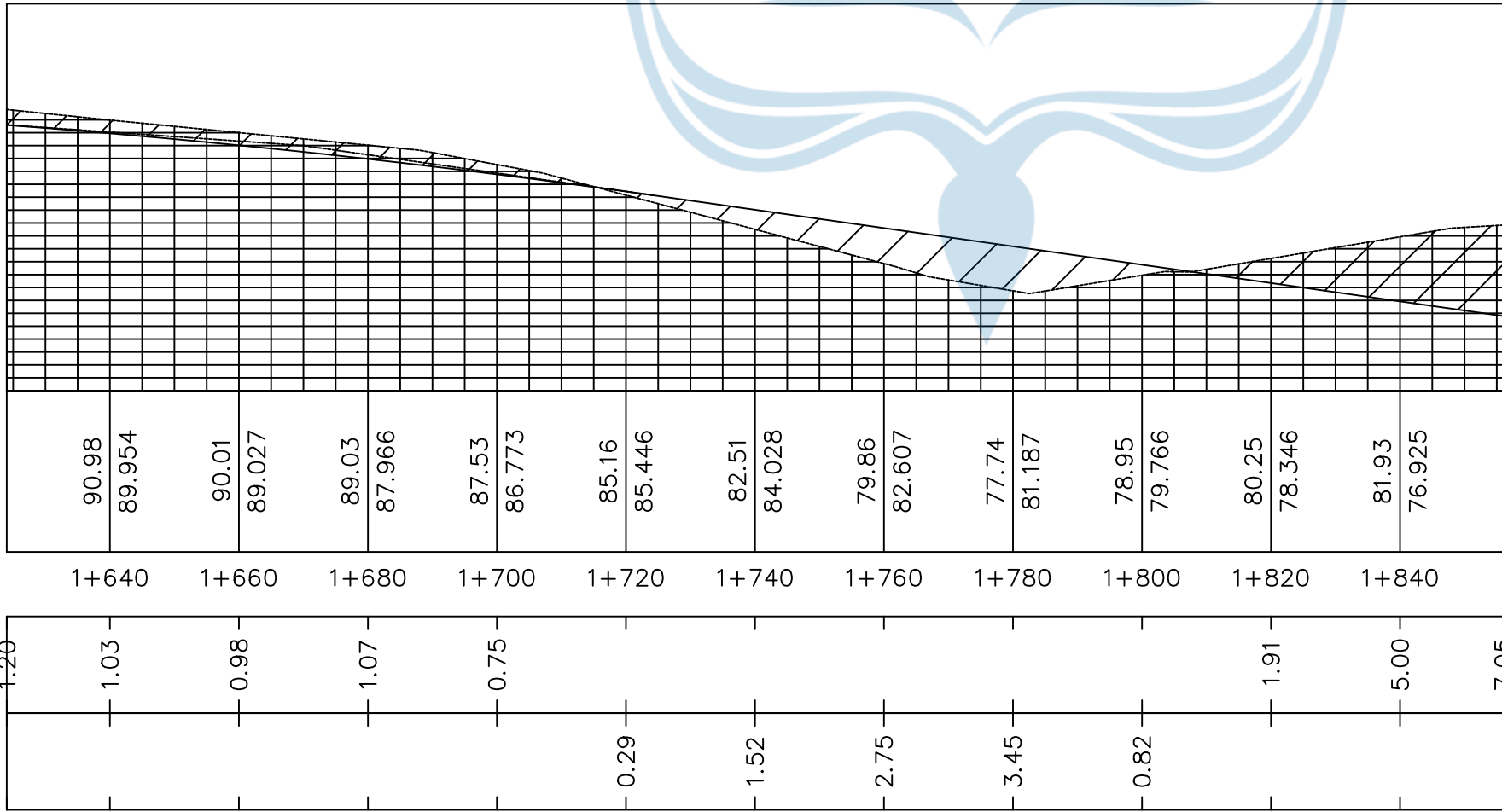
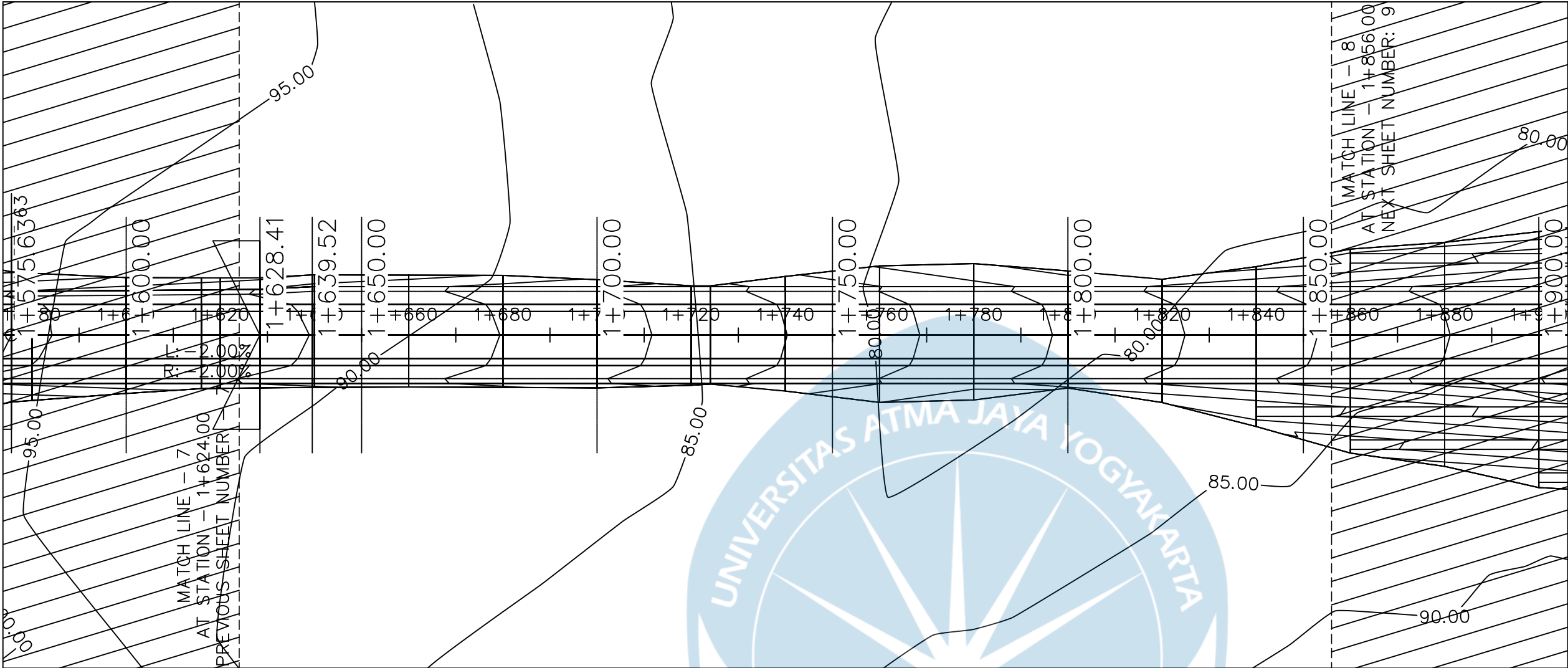
GABRIEL VITORIAN CHRISTALLO (210218572)
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SKALA

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Cut

Fill



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

PLAN & PROFILE JALAN

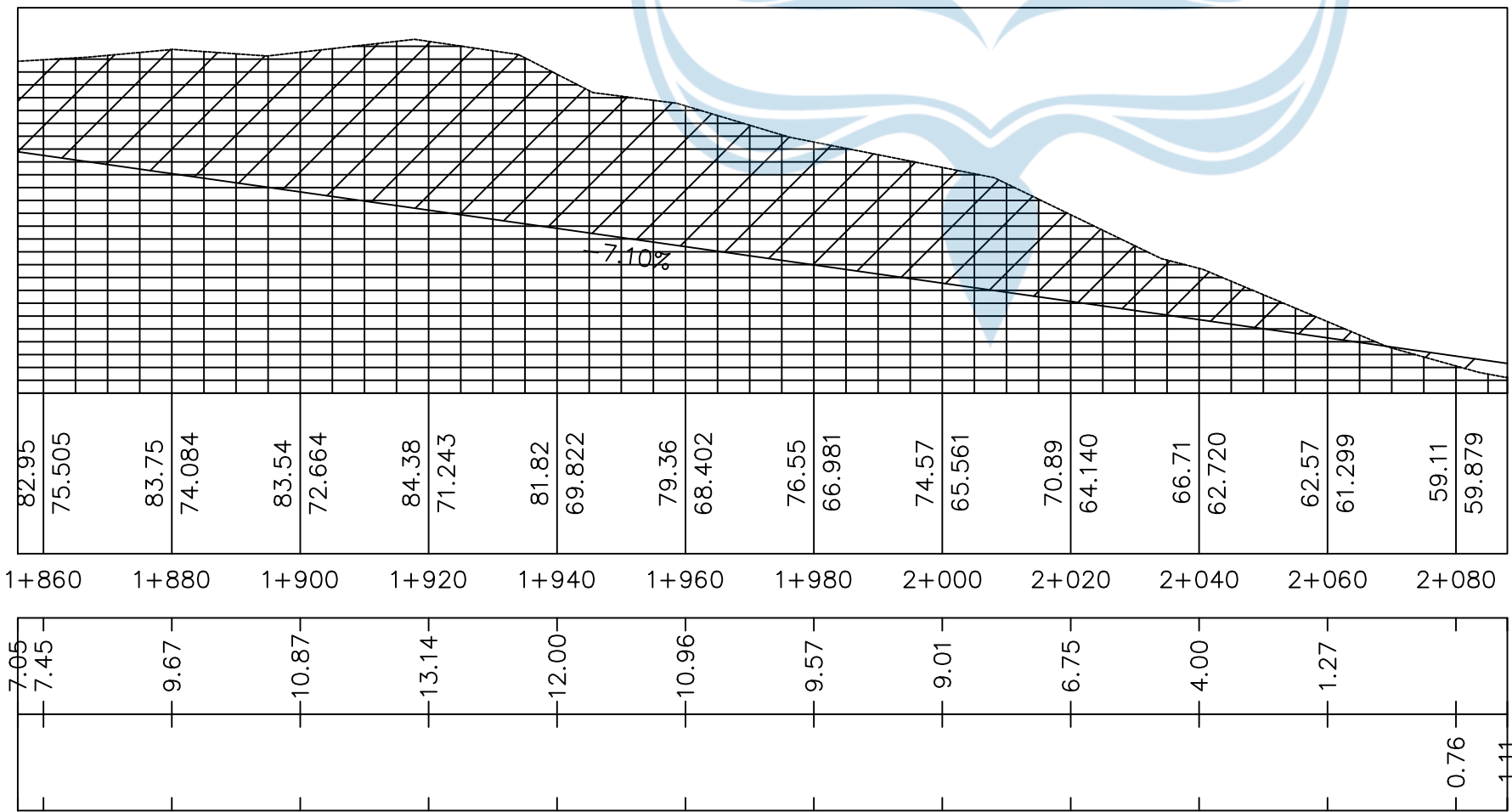
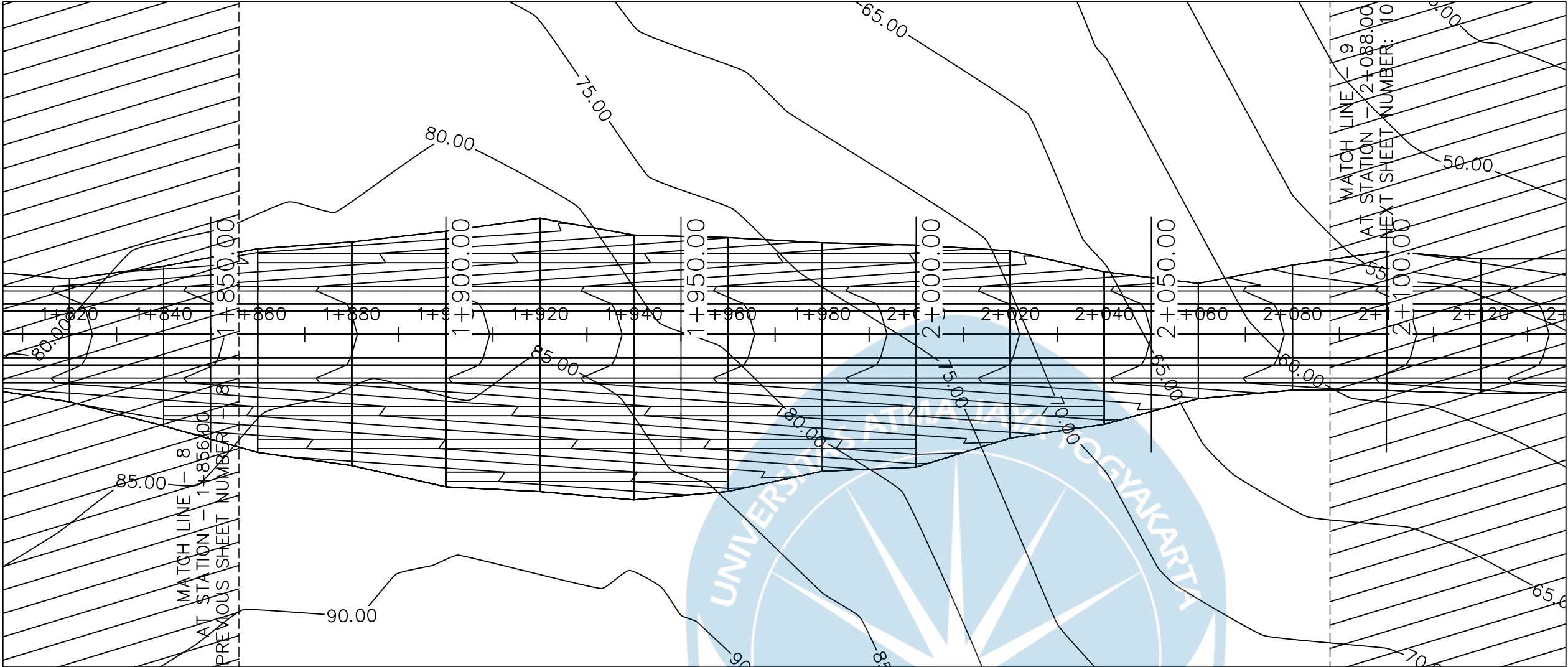
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DISETUJUI

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SKALA

1 : 1000



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TAHUN AJARAN 2024/2025

GAMBAR KERJA

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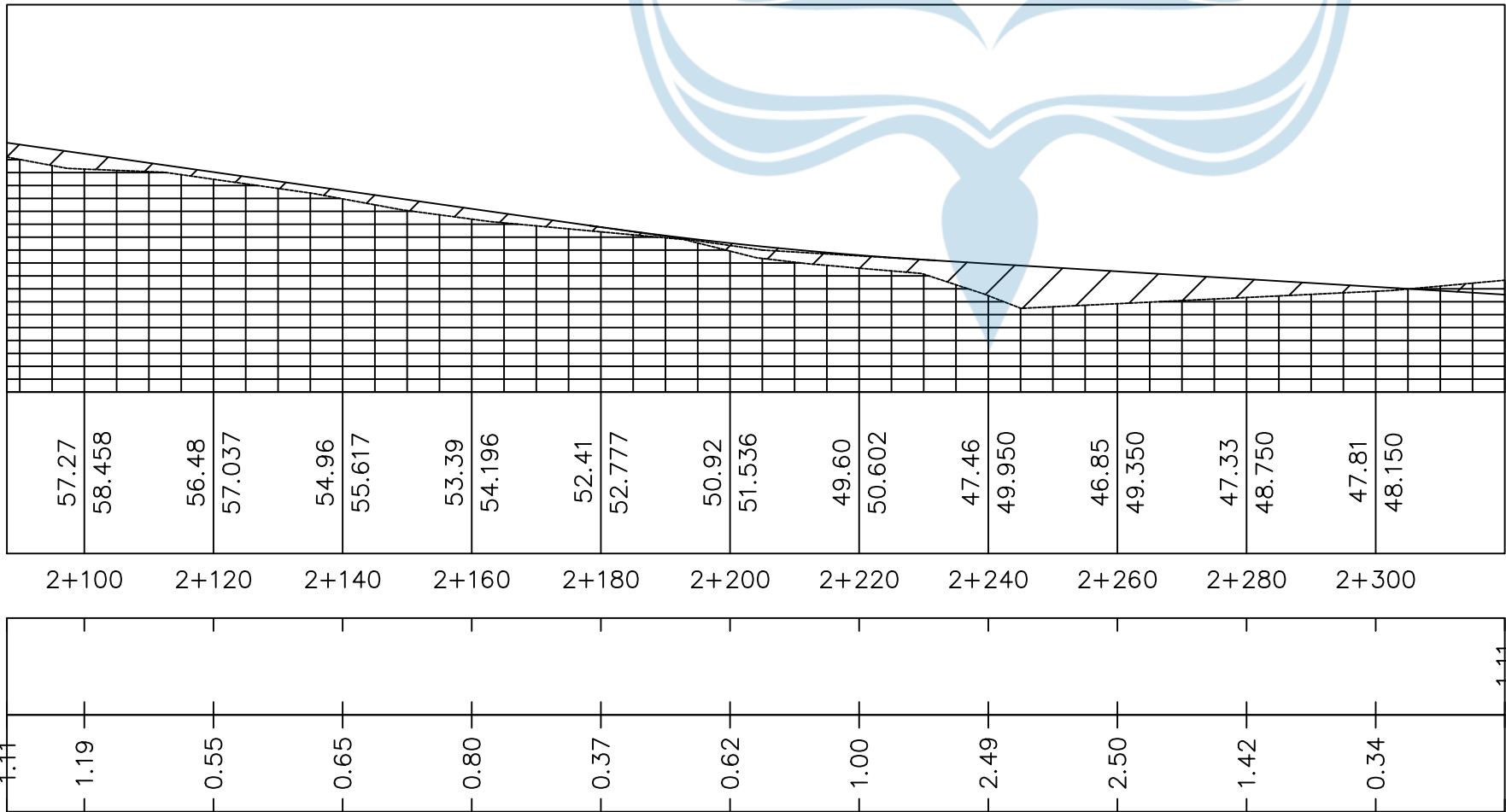
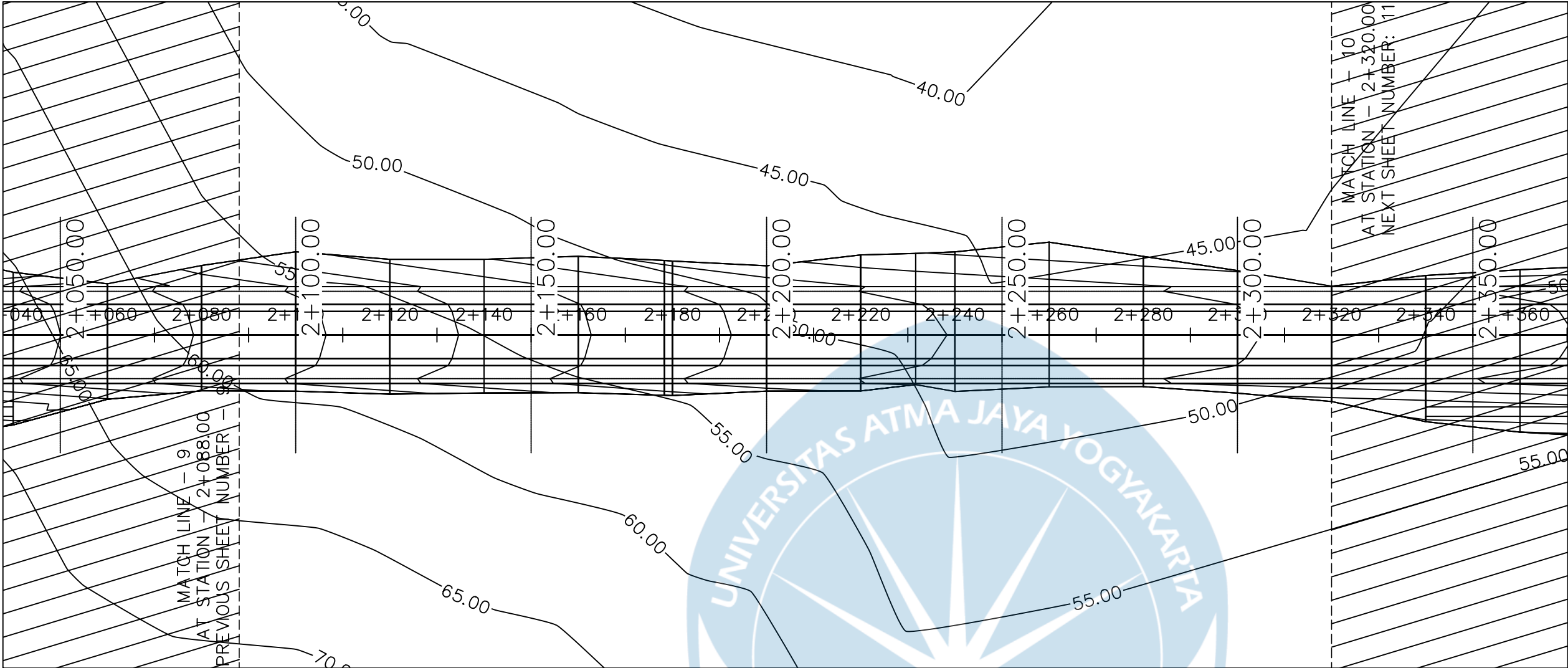
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SKALA

1 : 1000



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PLAN & PROFILE JALAN

DIGAMBAR & DISUSUN OLEH:

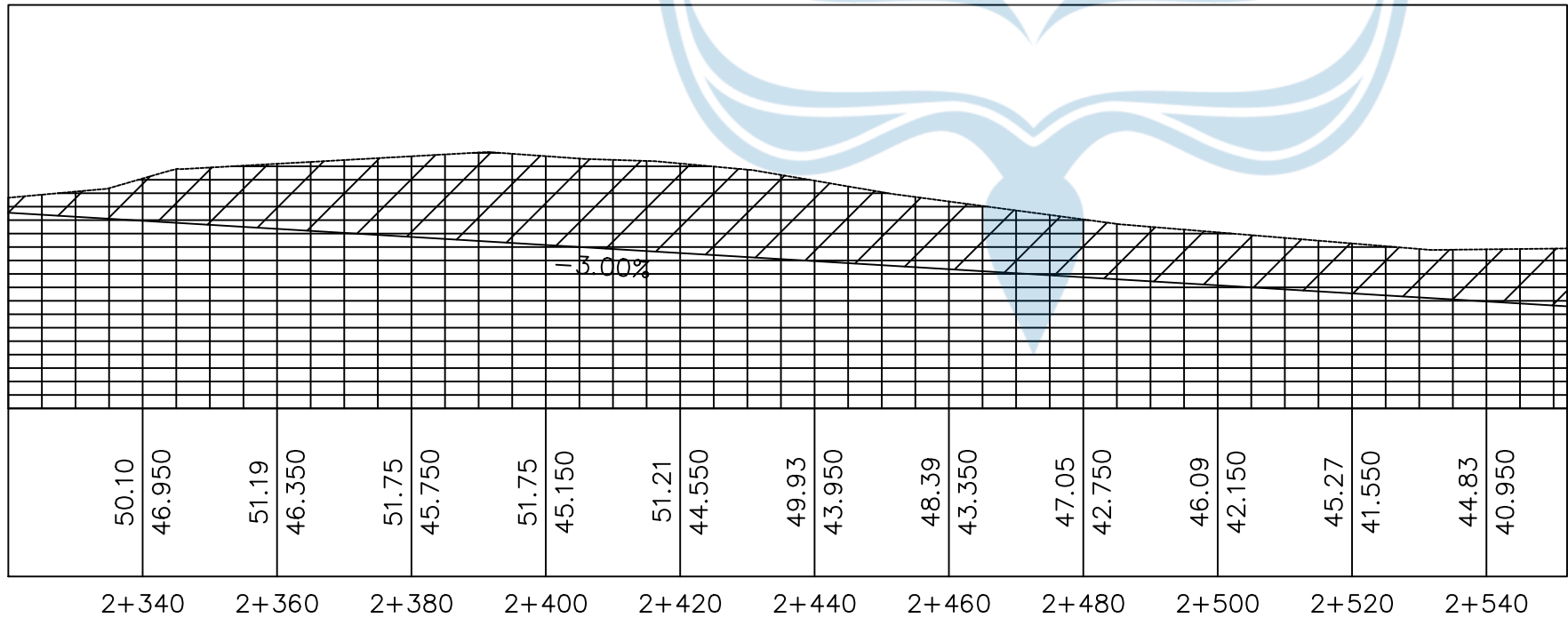
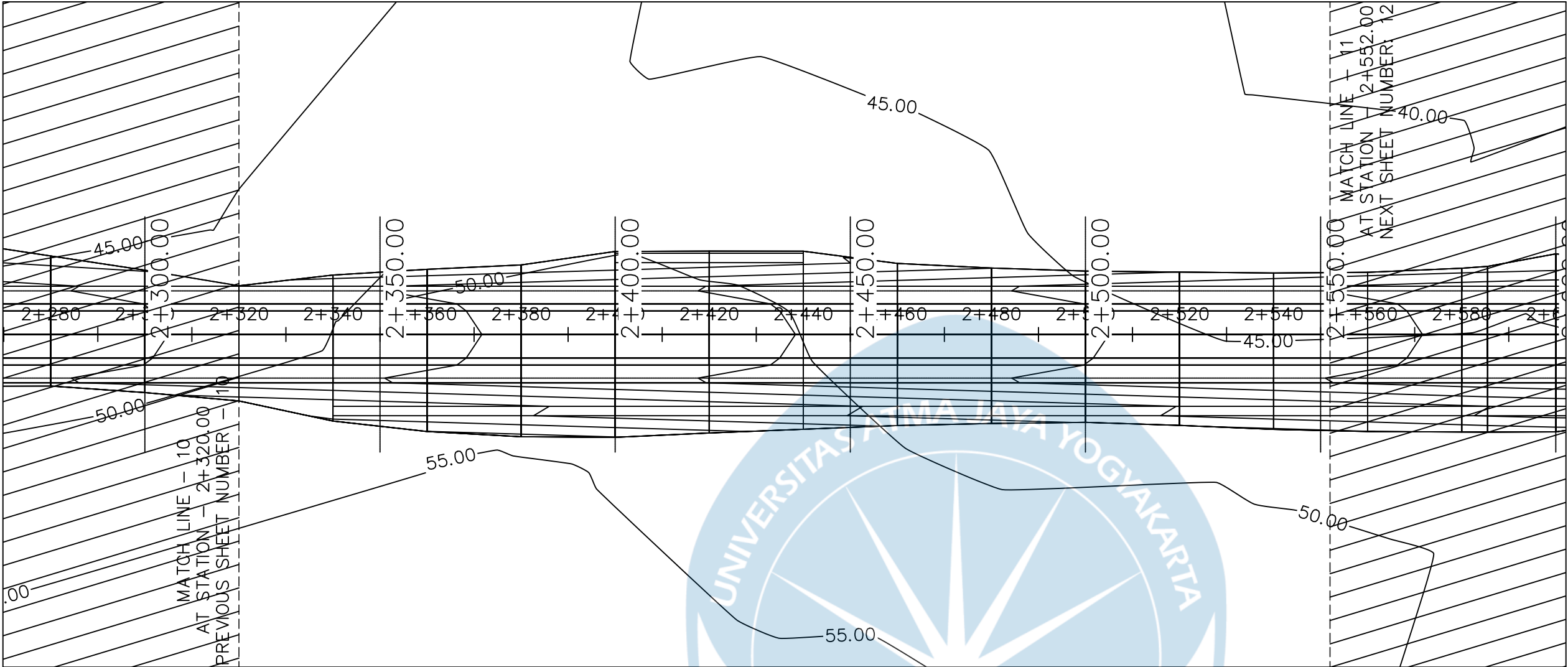
GABRIEL VITORIAN CHRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

DISETUJUI

Dr. Ir. J. Dwijoko Ansusanto, M.T.

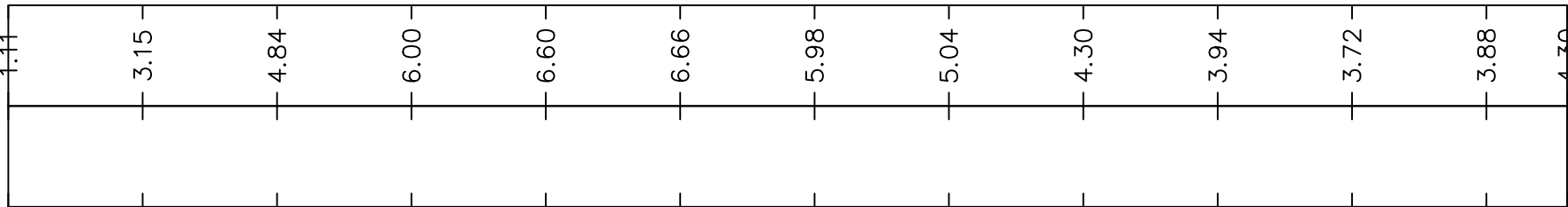
SKALA

1 : 1000



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TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

PLAN & PROFILE JALAN

DIGAMBAR & DISUSUN OLEH:

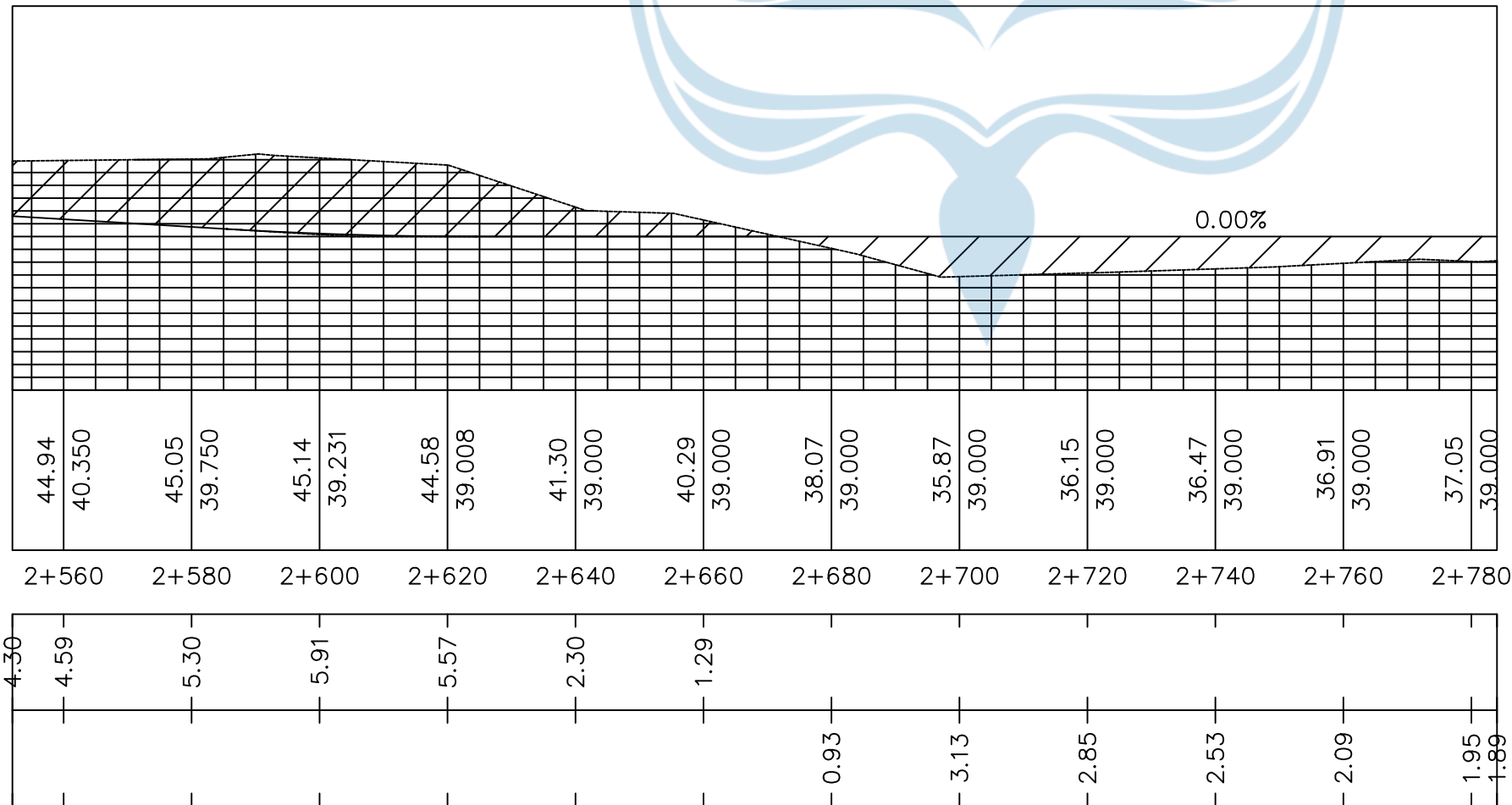
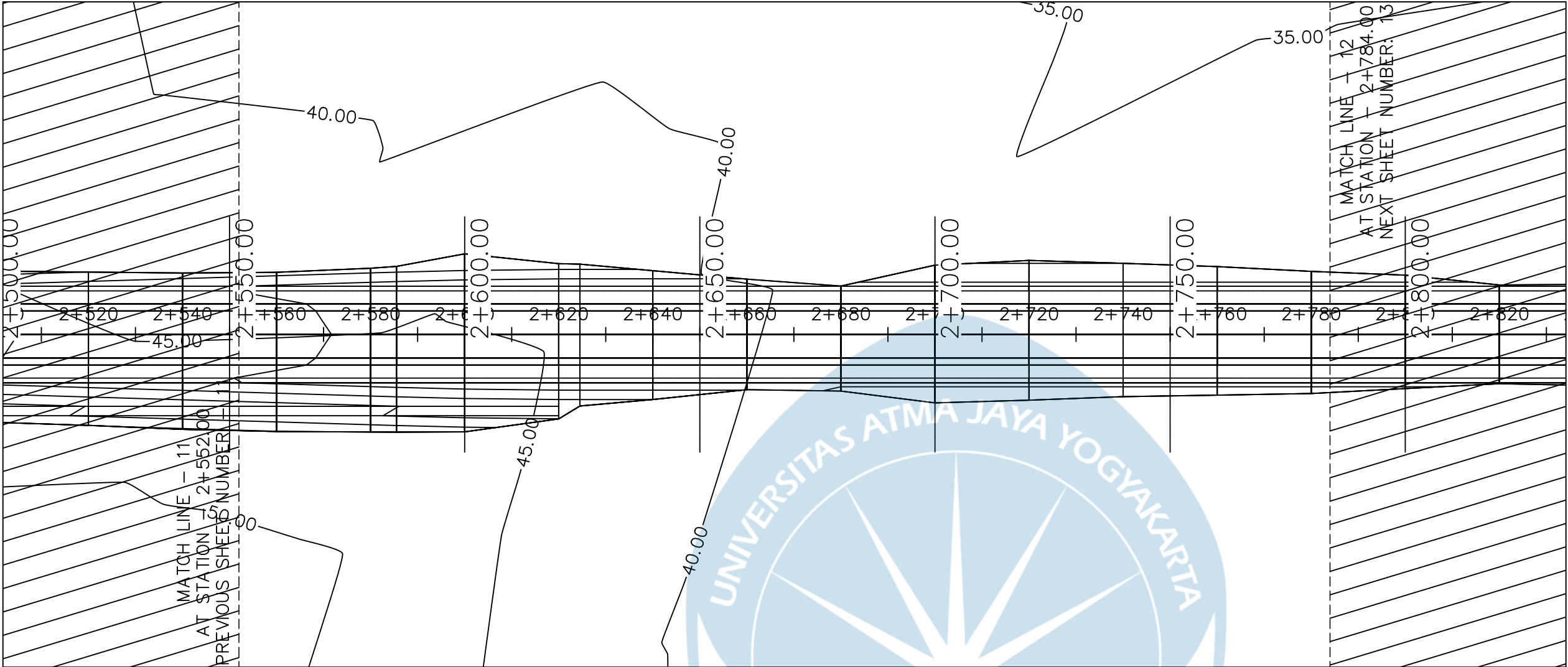
GABRIEL VITORIAN CRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

DISETUJUI

Dr. Ir. J. Dwijoko Anusanto, M.T.

SKALA

1 : 1000



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

PLAN & PROFILE JALAN

DIGAMBAR & DISUSUN OLEH:

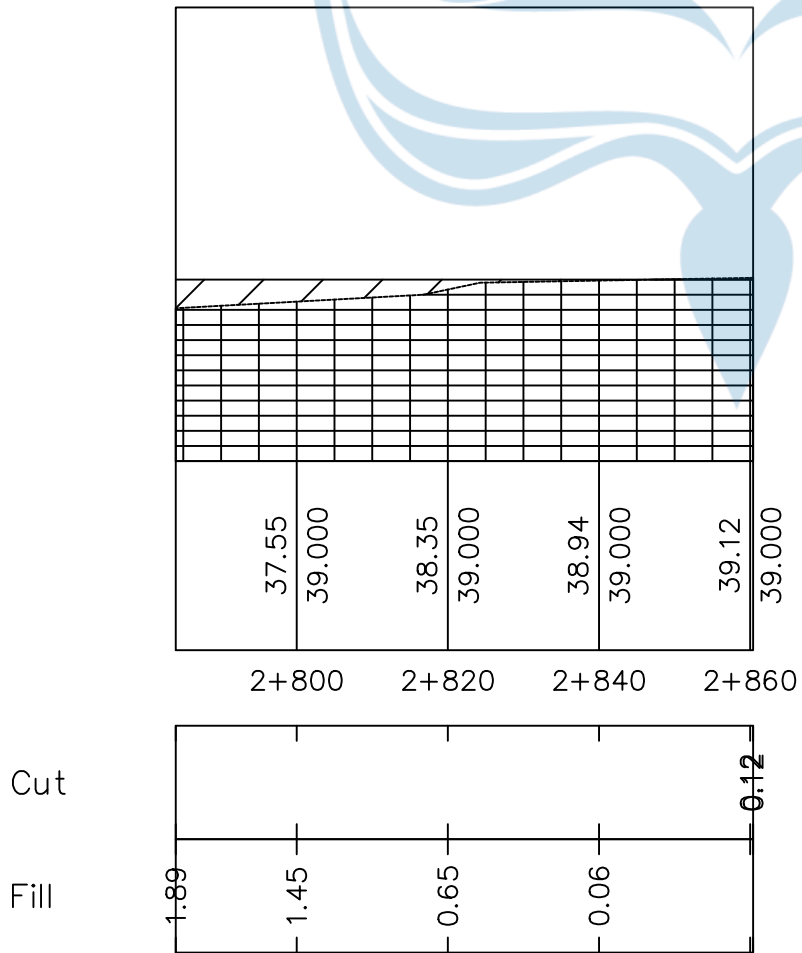
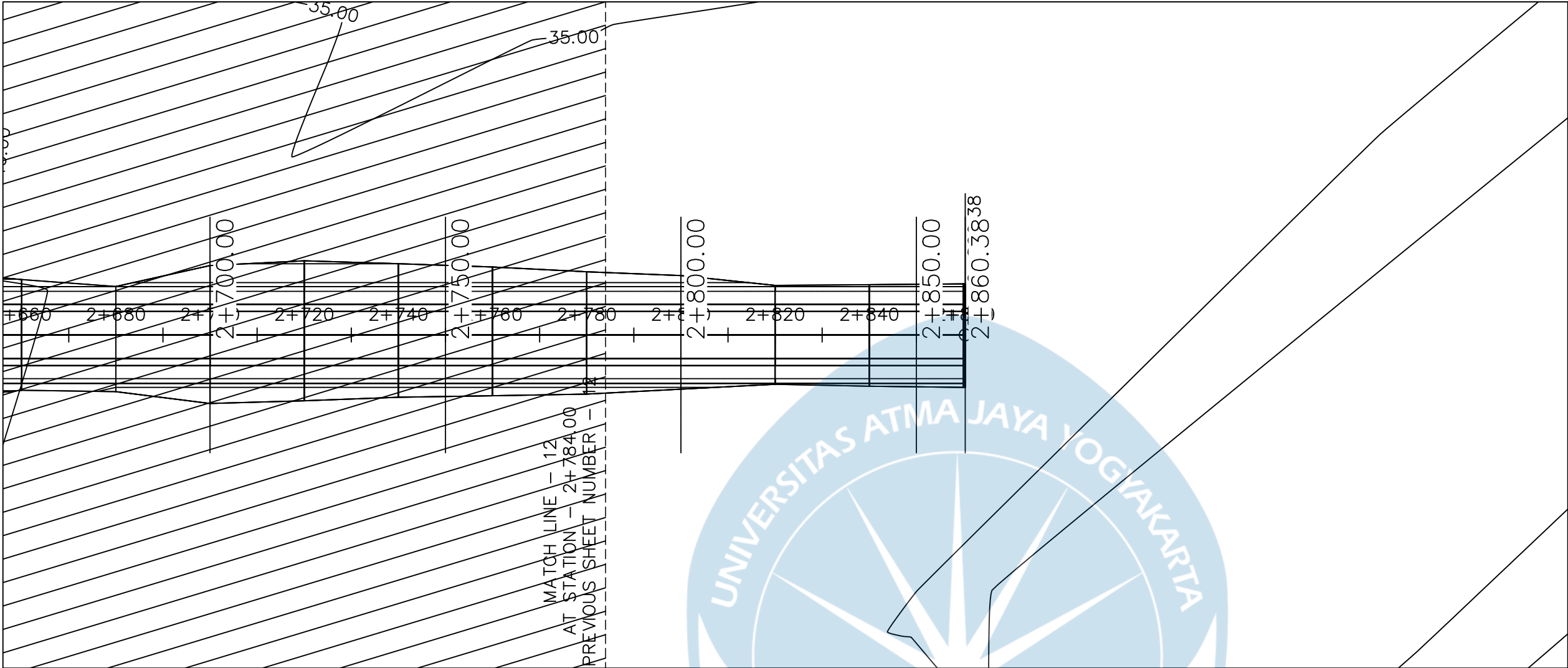
GABRIEL VITORIAN CHRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

DISETUJUI

Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA

1 : 1000



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

PLAN & PROFILE JALAN

DIGAMBAR & DISUSUN OLEH:

GABRIEL VITORIAN CHRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

DISETUJUI

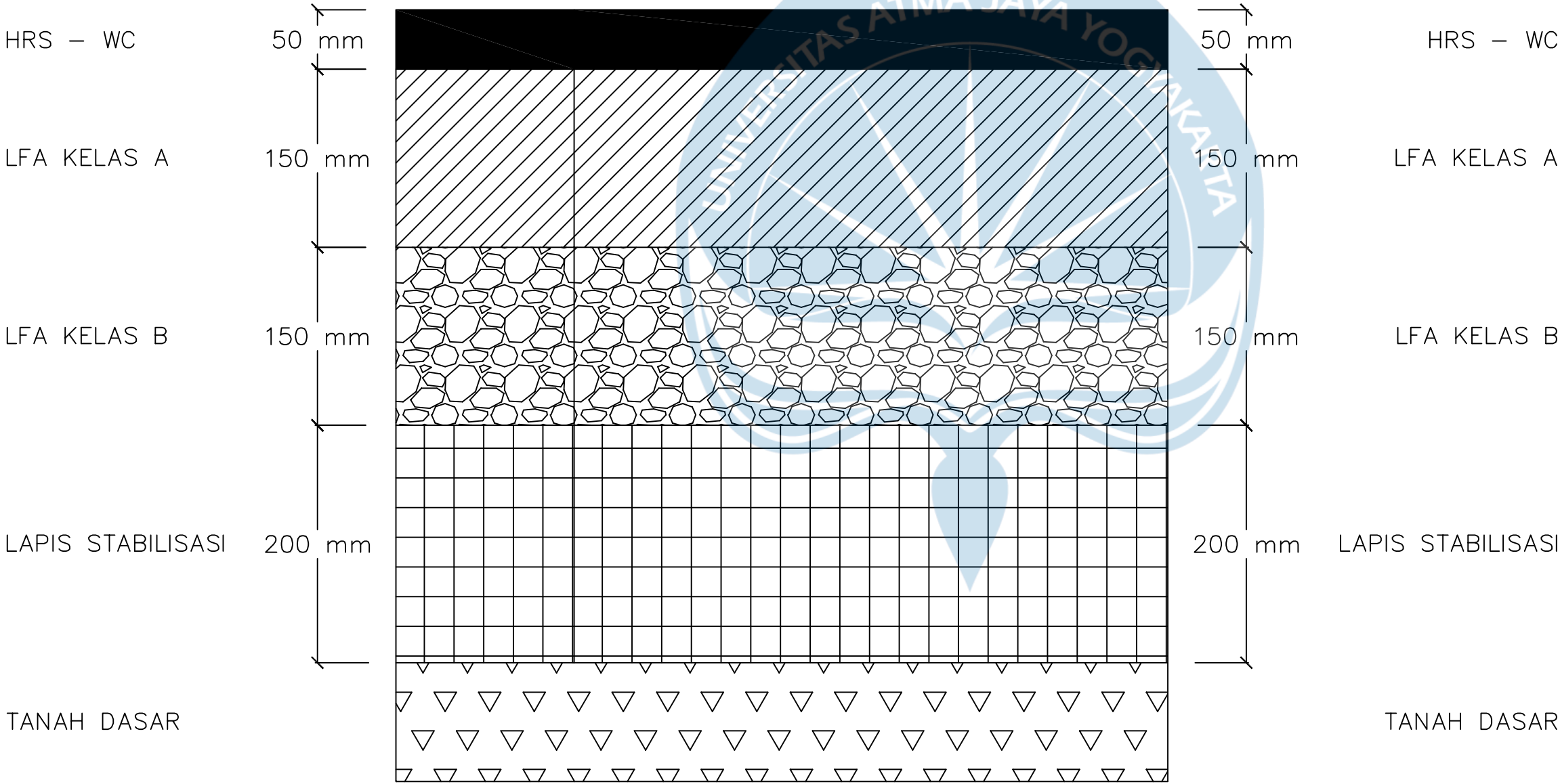
Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA

1 : 1000

STRUKTUR PERKERASAN JALAN
STA 0+000 – 0+285

BAHU JALAN PERKERASAN LAJUR UTAMA



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

Struktur Perkerasan Jalan
STA 0+000 – 0+285

DIGAMBAR & DISUSUN OLEH:

GABRIEL VITORIAN CHRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

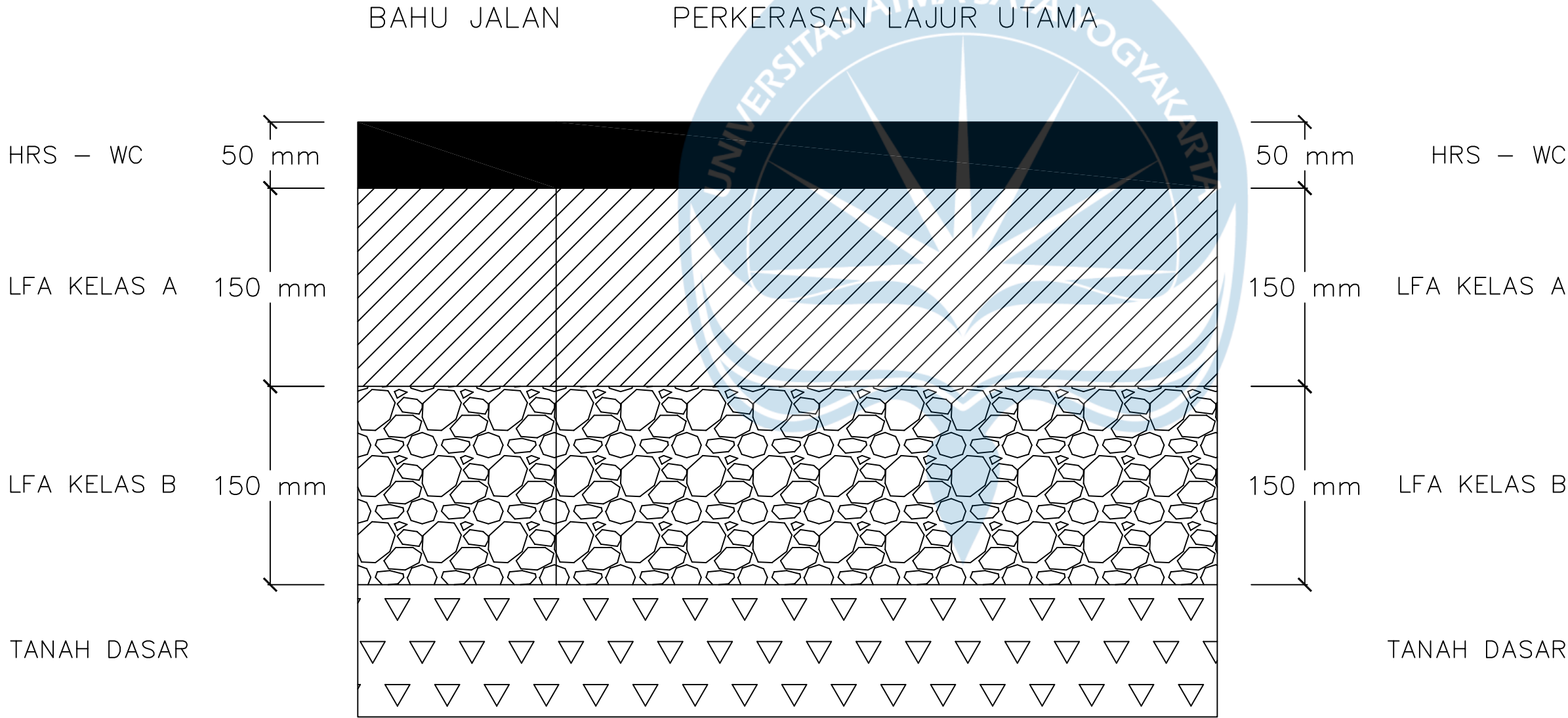
DISETUJUI

Ir. William Wijaya, S.T., M.Eng.

SKALA

1 : 5

STRUKTUR PERKERASAN JALAN
STA 0+285 – 2+565



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

Struktur Perkerasan Jalan
STA 0+285 – 2+565

DIGAMBAR & DISUSUN OLEH:

GABRIEL VITORIAN CHRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

DISETUJUI

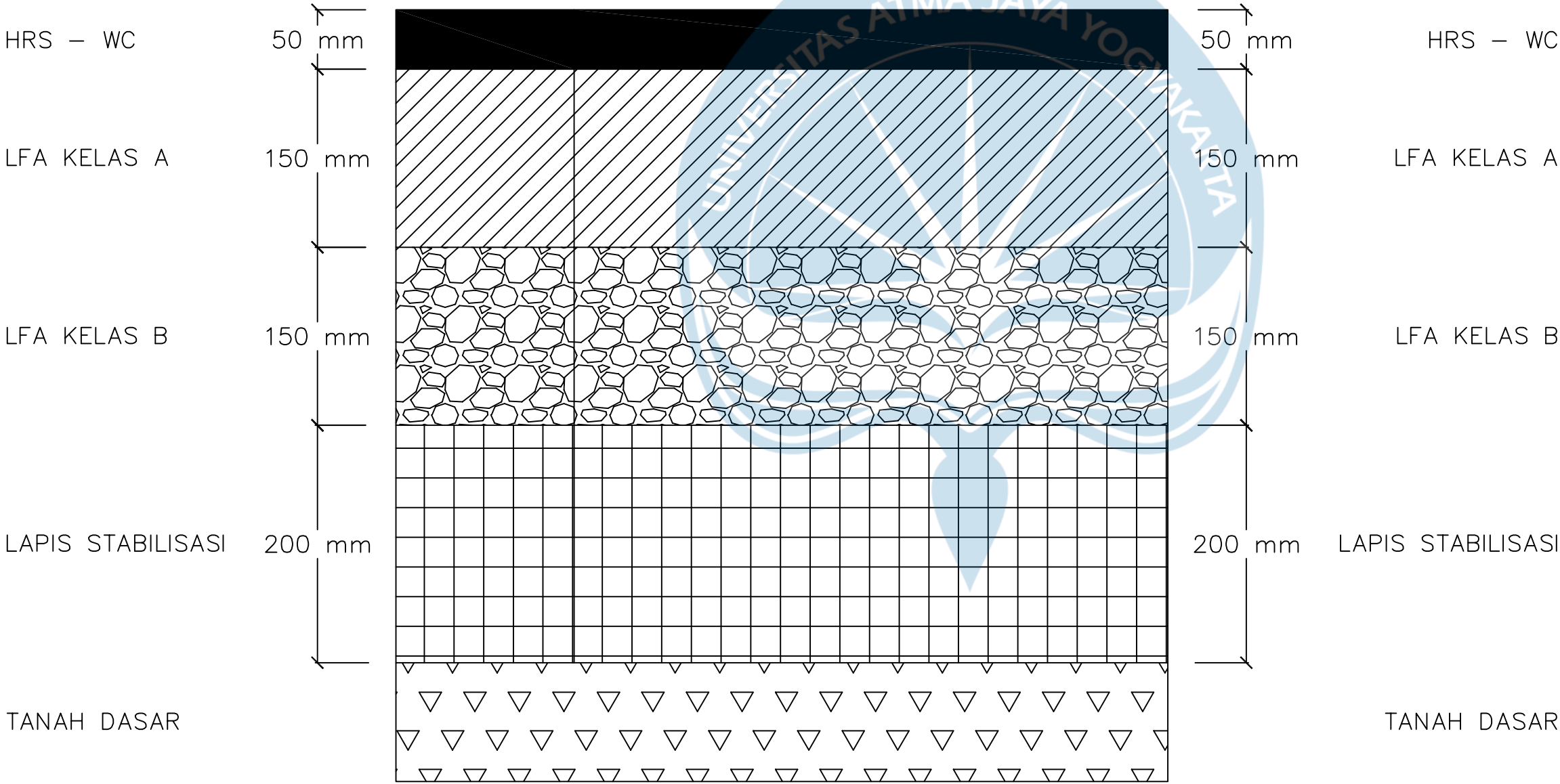
Ir. William Wijaya, S.T., M.Eng.

SKALA

1 : 5

STRUKTUR PERKERASAN JALAN
STA 2+565 – 2+860

BAHU JALAN PERKERASAN LAJUR UTAMA



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

Struktur Perkerasan Jalan
STA 2+565 – 2+860

DIGAMBAR & DISUSUN OLEH:

GABRIEL VITORIAN CHRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

DISETUJUI

Ir. William Wijaya, S.T., M.Eng.

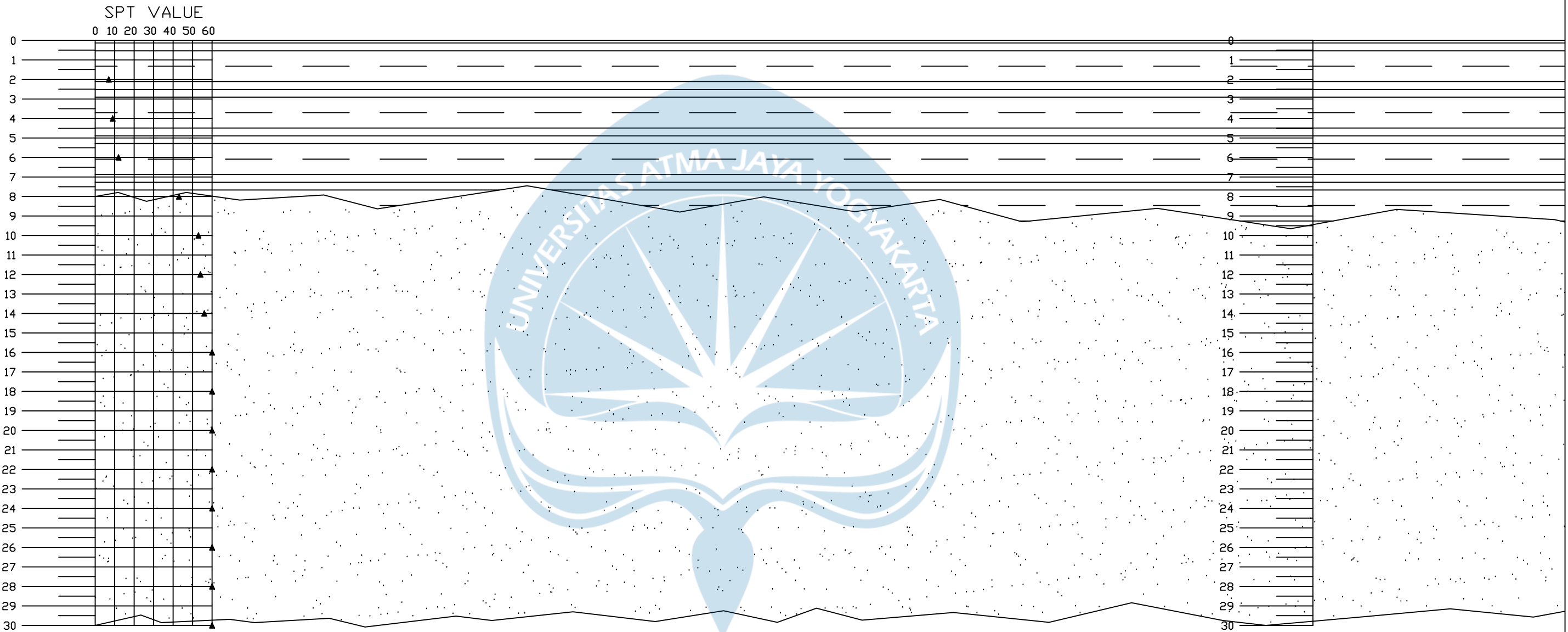
SKALA

1 : 5

STA 0+000 - STA 0+125

BH 1

CPT-1



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

DIGAMBAR & DISUSUN

DISETUJUI

KETERANGAN

GABRIEL VITORIAN CRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

STRATIGRAFI TANAH

- LANAU SEDIKIT BERPASIR
- LANAU LEMPUNG BERPASIR
- PASIR
- BATUAN LANAU LEMPUNG

SKALA

Ir. William Wijaya, S.T., M.Eng.

1 : 1500

STA 0+125 - STA 0+250

CPT-1

CPT-2



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

DIGAMBAR & DISUSUN

DISETUJUI

KETERANGAN

GABRIEL VITORIAN CRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

STRATIGRAFI TANAH

- LANAU SEDIKIT BERPASIR
- LANAU LEMPUNG BERPASIR
- PASIR
- BATUAN LANAU LEMPUNG

SKALA

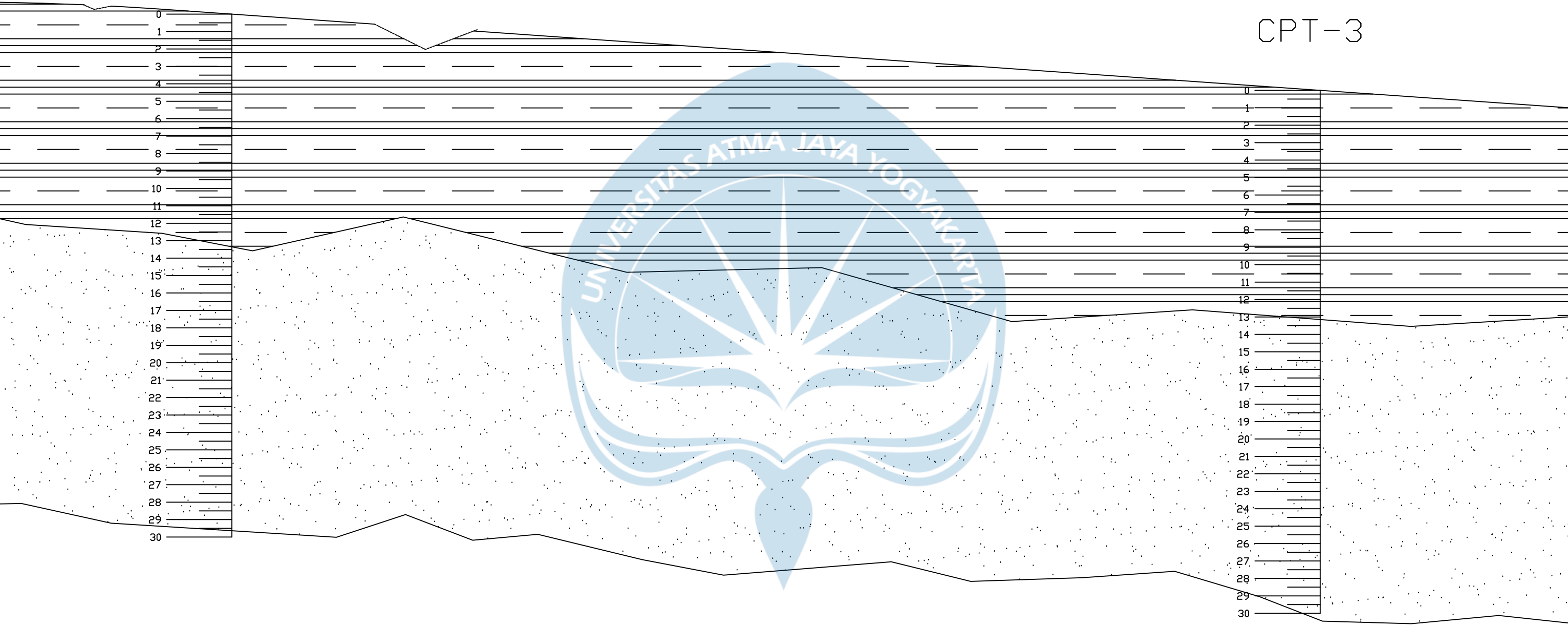
Ir. William Wijaya, S.T., M.Eng.

1 : 1500

STA 0+250 - STA 0+375

CPT-2

CPT-3



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

DIGAMBAR & DISUSUN

DISETUJUI

KETERANGAN

GABRIEL VITORIAN CRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

STRATIGRAFI TANAH

- LANAU SEDIKIT BERPASIR
- LANAU LEMPUNG BERPASIR
- PASIR
- BATUAN LANAU LEMPUNG

SKALA

Ir. William Wijaya, S.T., M.Eng.

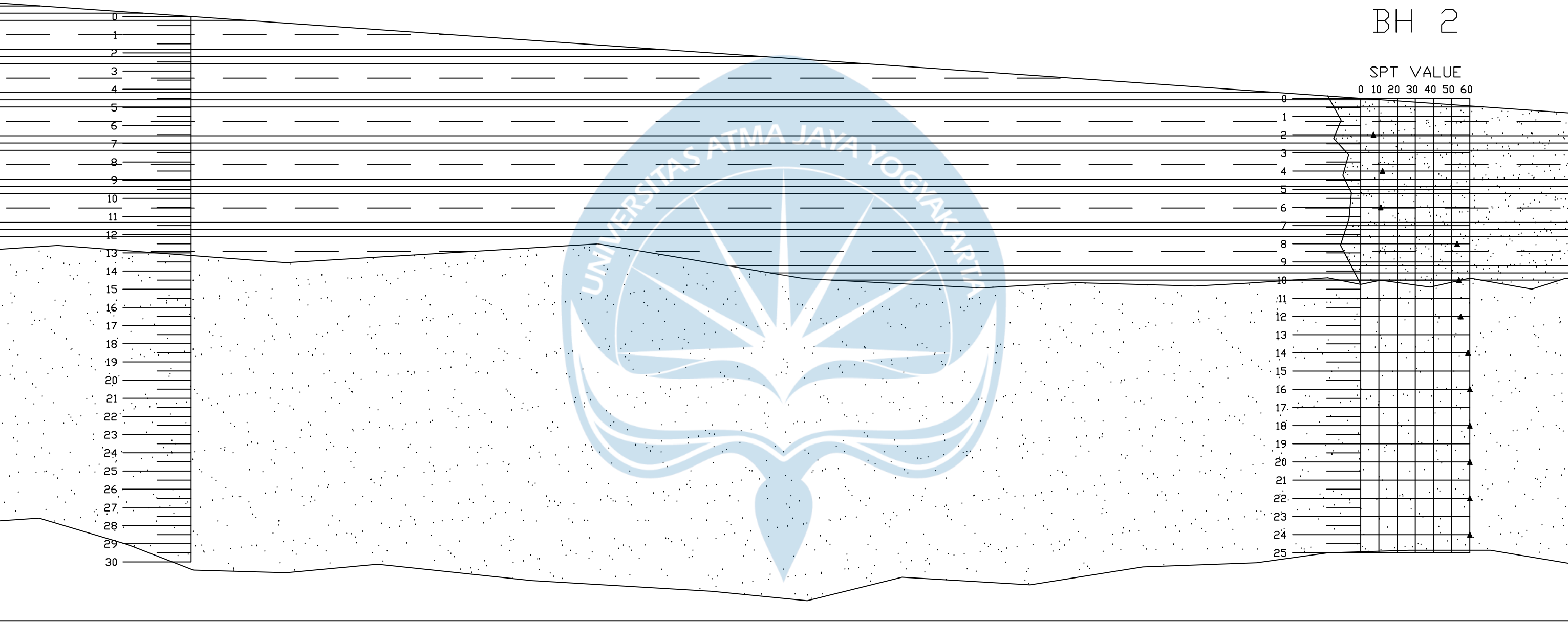
1 : 1500

STA 0+375 - STA 0+500

CPT-3

BH 2

SPT VALUE
0 10 20 30 40 50 60



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

DIGAMBAR & DISUSUN

DISETUJUI

KETERANGAN

GABRIEL VITORIAN CRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

STRATIGRAFI TANAH

- LANAU SEDIKIT BERPASIR
- LANAU LEMPUNG BERPASIR
- PASIR
- BATUAN LANAU LEMPUNG

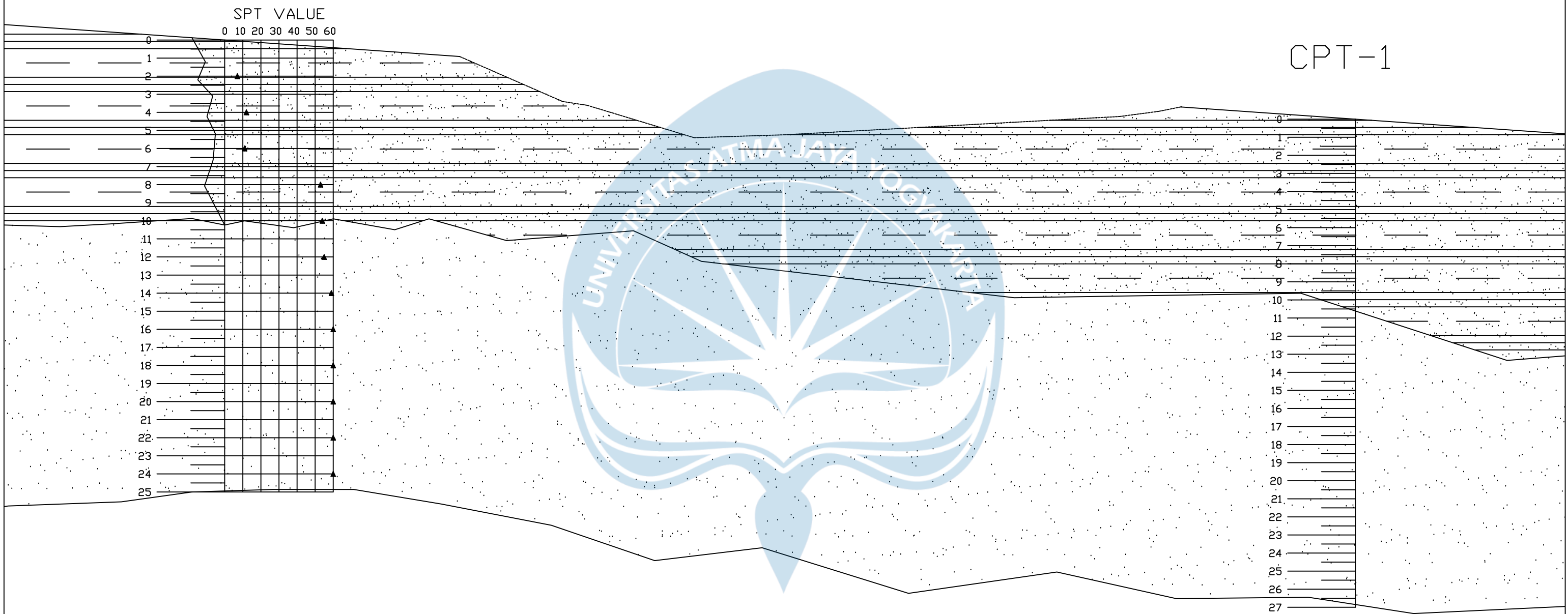
SKALA

Ir. William Wijaya, S.T., M.Eng.

1 : 1500

STA 0+500 - STA 0+625

BH 2



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

DIGAMBAR & DISUSUN

DISETUJUI

KETERANGAN

GABRIEL VITORIAN CRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

STRATIGRAFI TANAH

- LANAU SEDIKIT BERPASIR
- LANAU LEMPUNG BERPASIR
- PASIR
- BATUAN LANAU LEMPUNG

SKALA

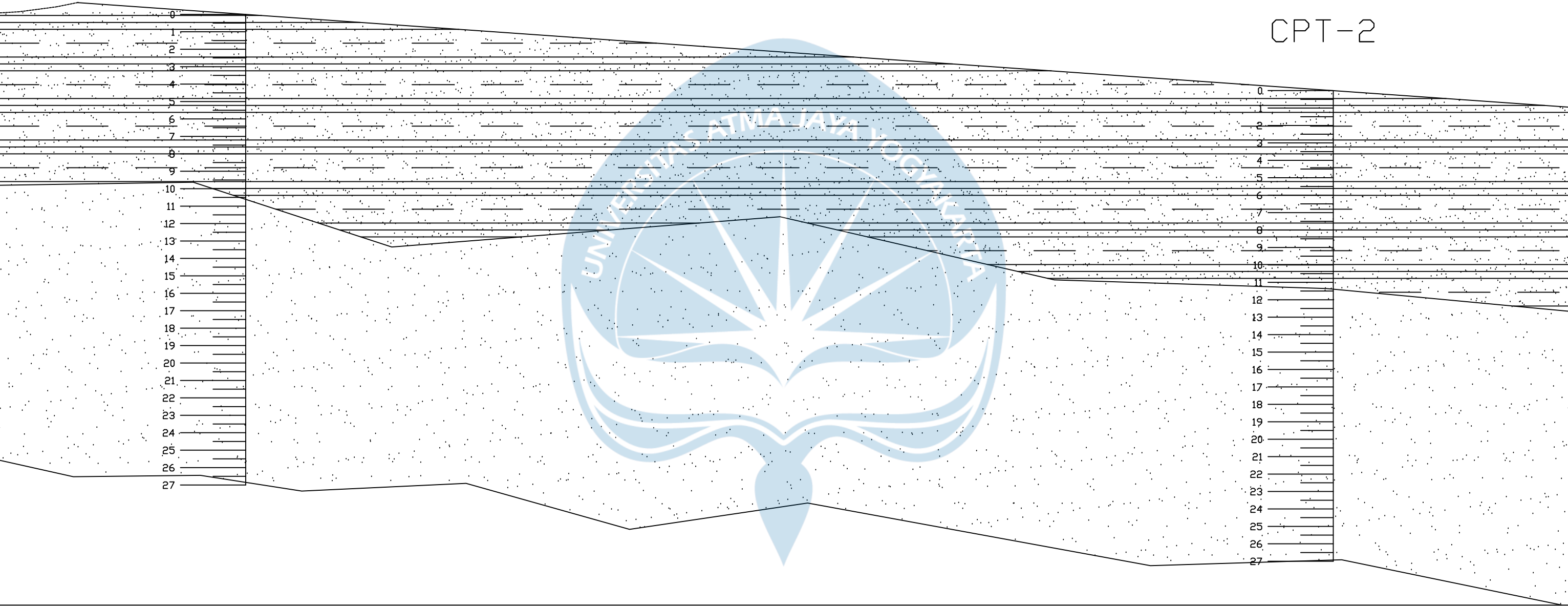
Ir. William Wijaya, S.T., M.Eng.

1 : 1500

STA 0+625 - STA 0+750

CPT-1

CPT-2



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

DIGAMBAR & DISUSUN

DISETUJUI

KETERANGAN

STRATIGRAFI TANAH

GABRIEL VITORIAN CRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

- LANAU SEDIKIT BERPASIR
- LANAU LEMPUNG BERPASIR
- PASIR
- BATUAN LANAU LEMPUNG

SKALA

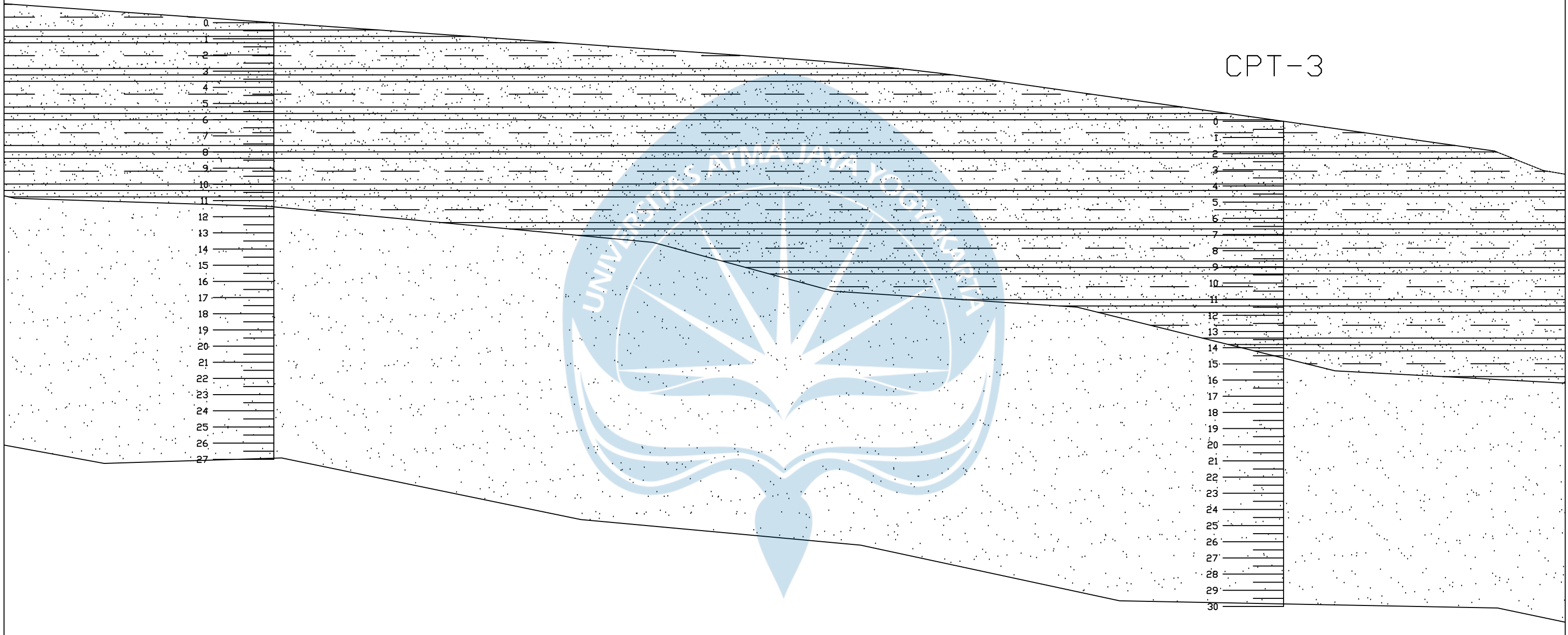
Ir. William Wijaya, S.T., M.Eng.

1 : 1500

STA 0+750 - STA 0+875

CPT-2

CPT-3



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

STRATIGRAFI TANAH

DIGAMBAR & DISUSUN

GABRIEL VITRIAN CRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

DISETUJUI

Ir. William Wijaya, S.T., M.Eng.

KETERANGAN

- LANAU SEDIKIT BERPASIR
- LANAU LEMPUNG BERPASIR
- PASIR
- BATUAN LANAU LEMPUNG

SKALA

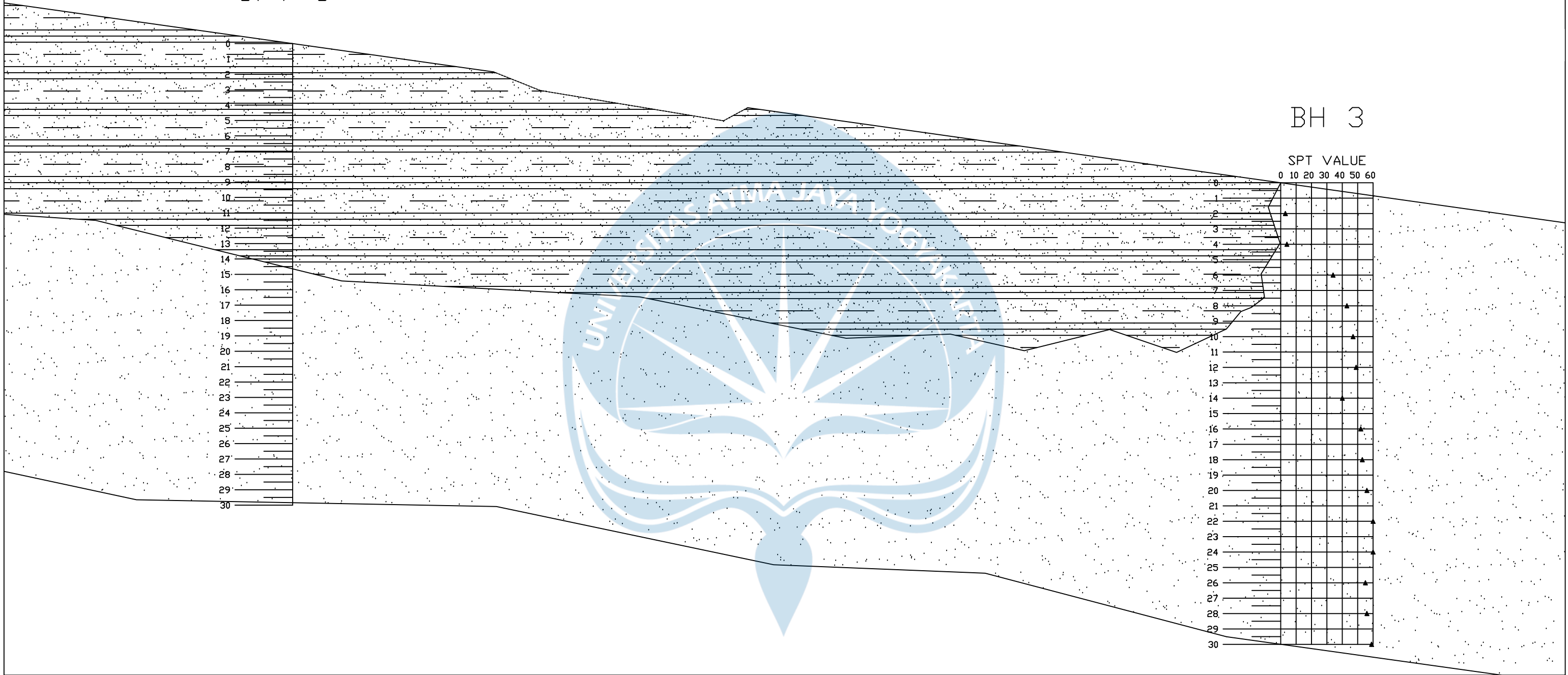
1 : 1500

STA 0+875 - STA 1+000

CPT-3

BH 3

SPT VALUE
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TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

DIGAMBAR & DISUSUN

DISETUJUI

KETERANGAN

GABRIEL VITORIAN CRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

STRATIGRAFI TANAH

- LANAU SEDIKIT BERPASIR
- LANAU LEMPUNG BERPASIR
- PASIR
- BATUAN LANAU LEMPUNG

SKALA

Ir. William Wijaya, S.T., M.Eng.

1 : 1500

STA 1+000 - STA 1+125

BH 3



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

DIGAMBAR & DISUSUN

DISETUJUI

KETERANGAN

STRATIGRAFI TANAH

GABRIEL VITORIAN CRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

- LANAU SEDIKIT BERPASIR
- LANAU LEMPUNG BERPASIR
- PASIR
- BATUAN LANAU LEMPUNG

SKALA

Ir. William Wijaya, S.T., M.Eng.

1 : 1500

STA 1+125 - STA 1+250

CPT-1



CPT-2



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

DIGAMBAR & DISUSUN

DISETUJUI

KETERANGAN

GABRIEL VITORIAN CHRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

STRATIGRAFI TANAH

- LANAU SEDIKIT BERPASIR
- LANAU LEMPUNG BERPASIR
- PASIR
- BATUAN LANAU LEMPUNG

SKALA

Ir. William Wijaya, S.T., M.Eng.

1 : 1500

STA 1+250 - STA 1+375

CPT-2

CPT-3



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

DIGAMBAR & DISUSUN

DISETUJUI

KETERANGAN

STRATIGRAFI TANAH

GABRIEL VITORIAN CRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

- LANAU SEDIKIT BERPASIR
- LANAU LEMPUNG BERPASIR
- PASIR
- BATUAN LANAU LEMPUNG

SKALA

Ir. William Wijaya, S.T., M.Eng.

1 : 1500

STA 1+375 - STA 1+500

CPT-3

BH 4

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SPT VALUE
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GAMBAR KERJA

DIGAMBAR & DISUSUN

DISETUJUI

KETERANGAN



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

STRATIGRAFI TANAH

GABRIEL VITORIAN CRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

Ir. William Wijaya, S.T., M.Eng.

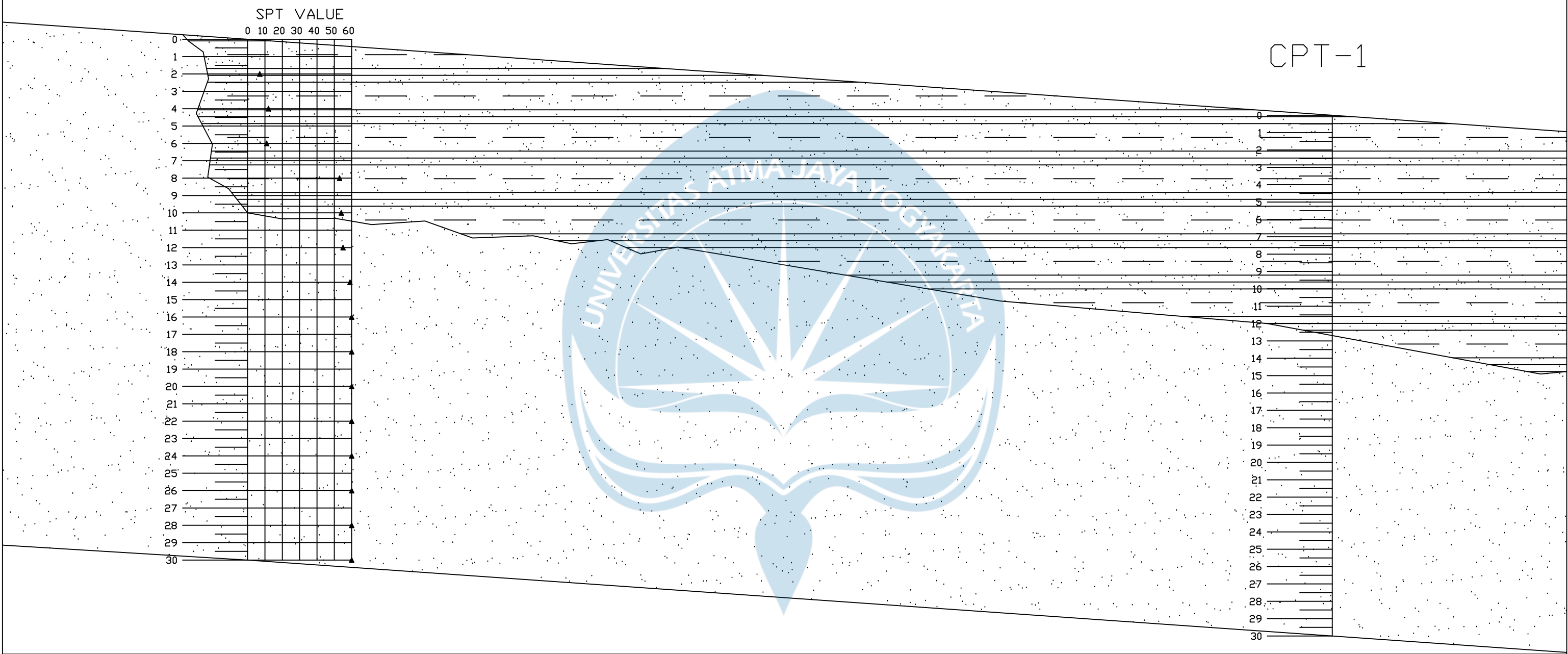
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LANAU LEMPUNG BERPASIR
PASIR
BATUAN LANAU LEMPUNG

SKALA

1 : 1500

STA 1+500 - STA 1+625

BH 4



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

DIGAMBAR & DISUSUN

DISETUJUI

KETERANGAN

GABRIEL VITORIAN CRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

STRATIGRAFI TANAH

- LANAU SEDIKIT BERPASIR
- LANAU LEMPUNG BERPASIR
- PASIR
- BATUAN LANAU LEMPUNG

SKALA

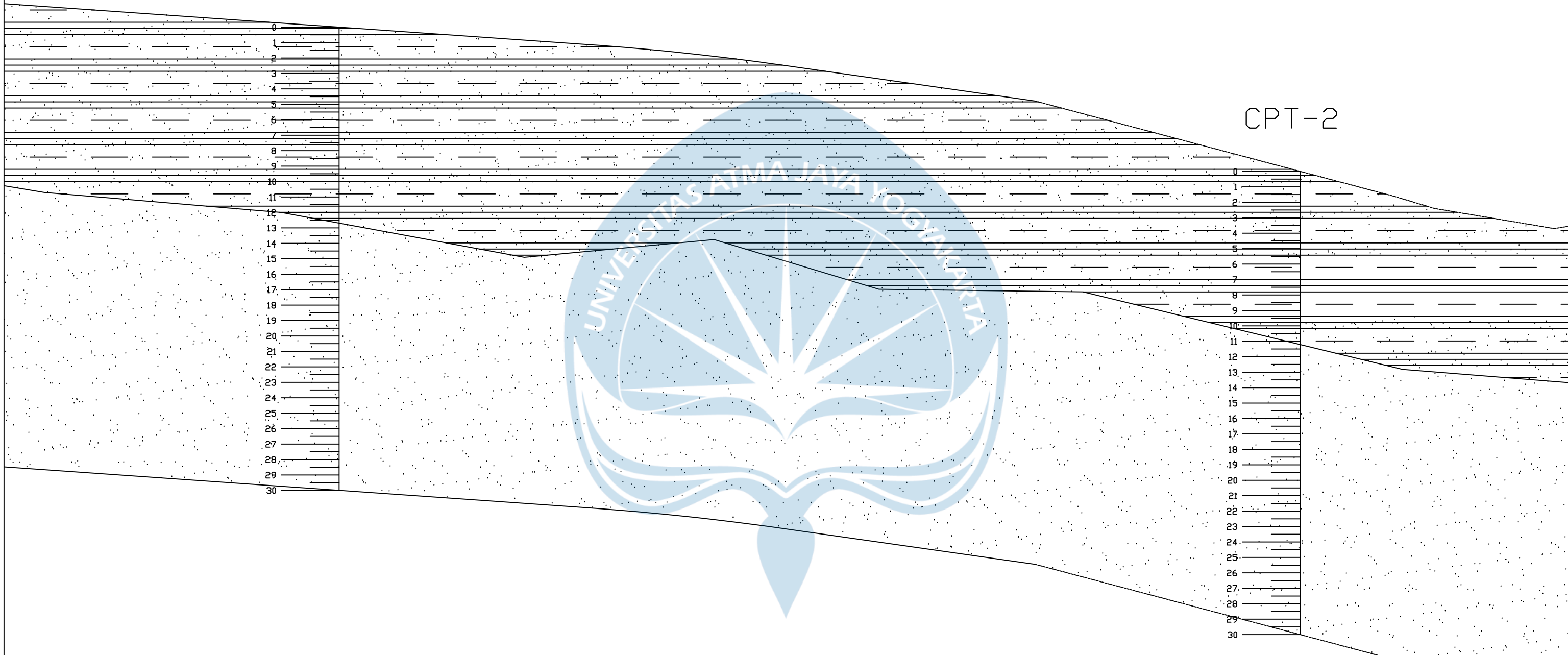
Ir. William Wijaya, S.T., M.Eng.

1 : 1500

STA 1+625 - STA 1+750

CPT-1

CPT-2



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

STRATIGRAFI TANAH

DIGAMBAR & DISUSUN

GABRIEL VITORIAN CRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

DISETUJUI

Ir. William Wijaya, S.T., M.Eng.

KETERANGAN

- LANAU SEDIKIT BERPASIR
- LANAU LEMPUNG BERPASIR
- PASIR
- BATUAN LANAU LEMPUNG

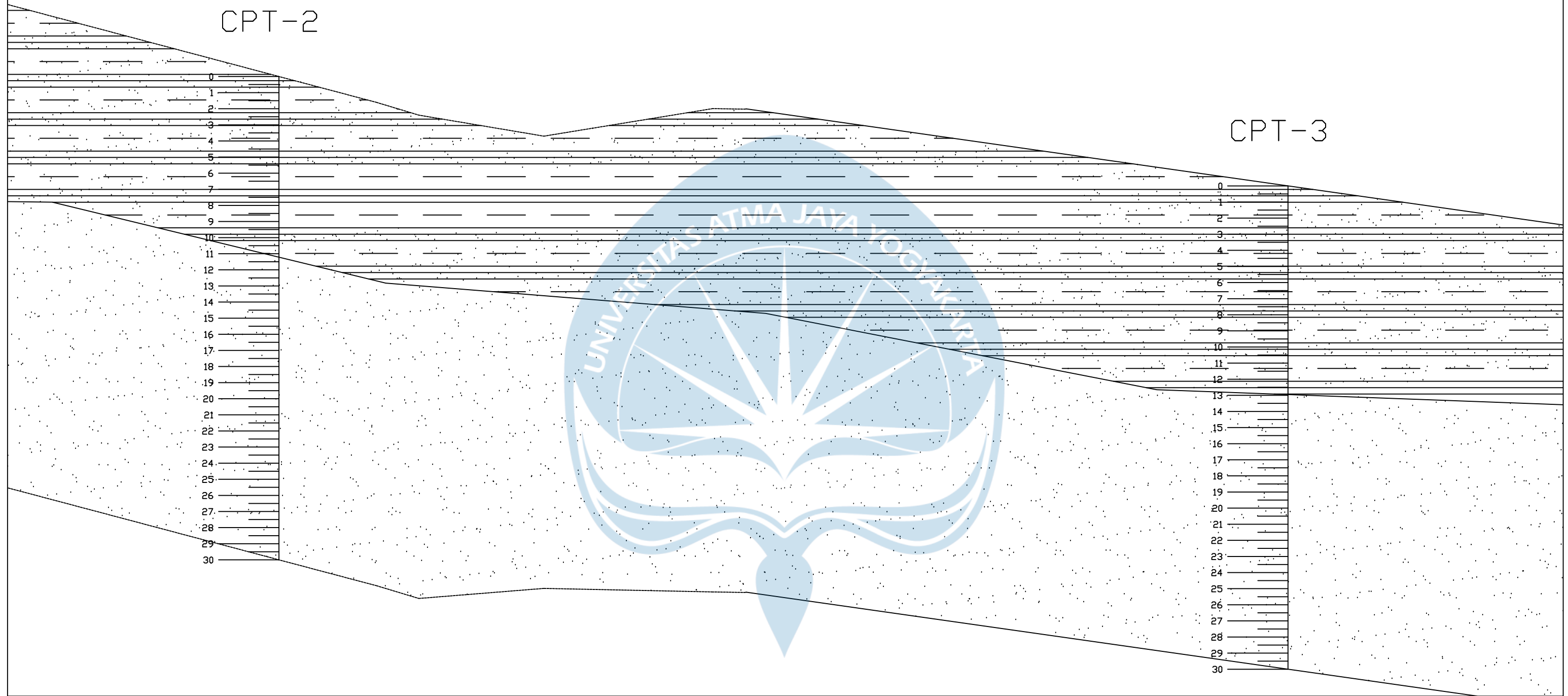
SKALA

1 : 1500

STA 1+750 - STA 1+875

CPT-2

CPT-3



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

STRATIGRAFI TANAH

DIGAMBAR & DISUSUN

GABRIEL VITORIAN CRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

DISETUJUI

Ir. William Wijaya, S.T., M.Eng.

KETERANGAN

- LANAU SEDIKIT BERPASIR
- LANAU LEMPUNG BERPASIR
- PASIR
- BATUAN LANAU LEMPUNG

SKALA

1 : 1500

STA 1+875 - STA 2+000

CPT-3

BH 5

SPT VALUE
0 10 20 30 40 50 60

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TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

DIGAMBAR & DISUSUN

DISETUJUI

KETERANGAN

GABRIEL VITORIAN CRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

STRATIGRAFI TANAH

- LANAU SEDIKIT BERPASIR
- LANAU LEMPUNG BERPASIR
- PASIR
- BATUAN LANAU LEMPUNG

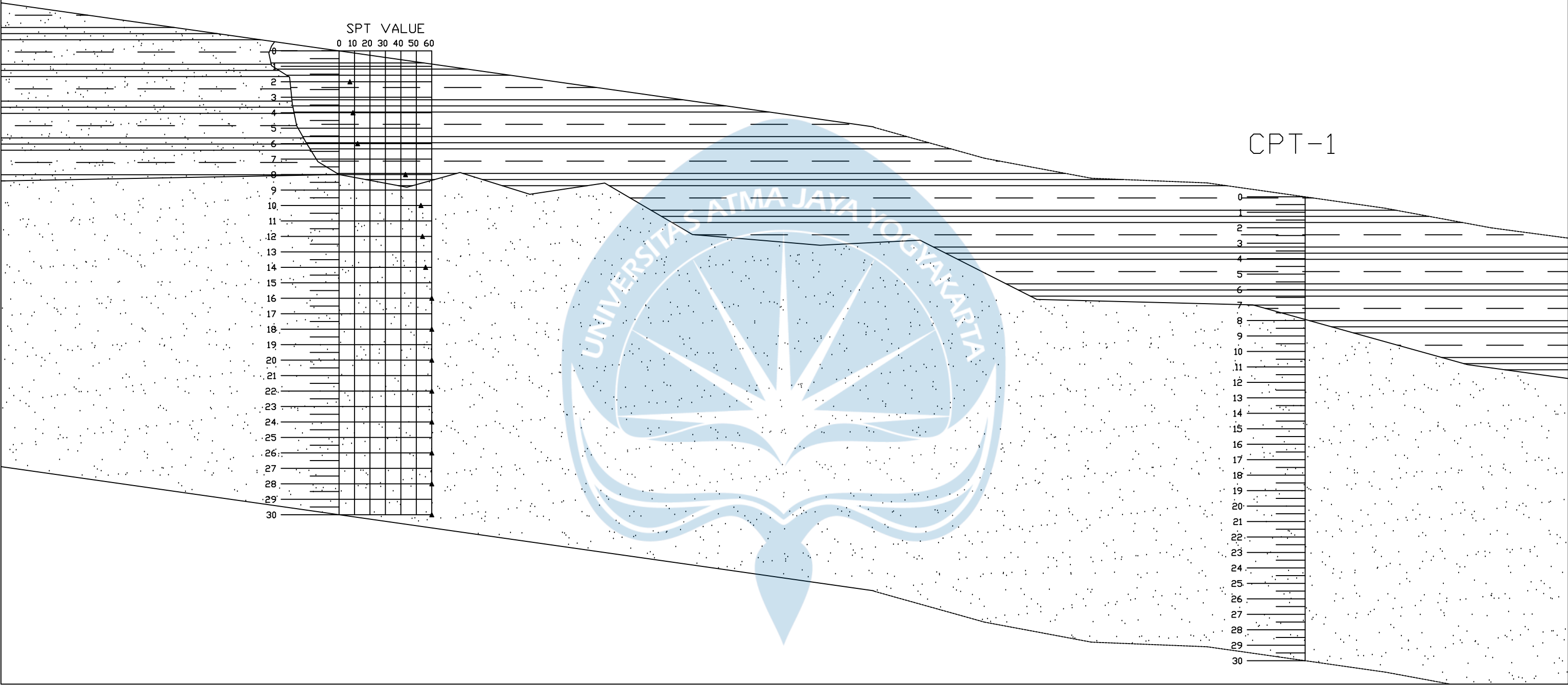
SKALA

Ir. William Wijaya, S.T., M.Eng.

1 : 1500

STA 2+000 - STA 2+125

BH 5



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

DIGAMBAR & DISUSUN

DISETUJUI

KETERANGAN

GABRIEL VITORIAN CRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

STRATIGRAFI TANAH

- LANAU SEDIKIT BERPASIR
- LANAU LEMPUNG BERPASIR
- PASIR
- BATUAN LANAU LEMPUNG

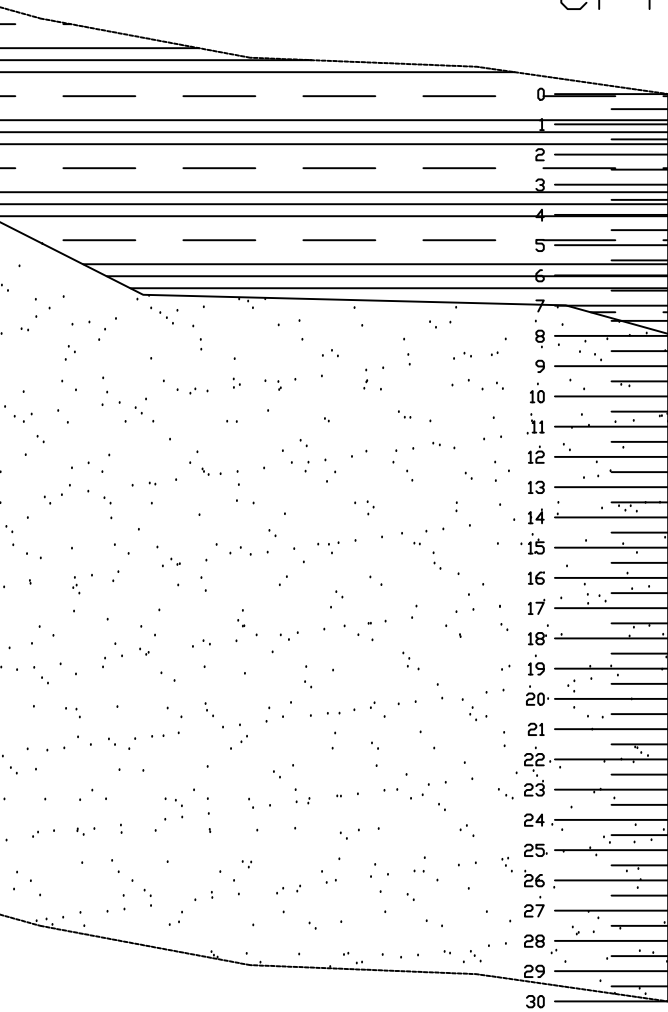
SKALA

Ir. William Wijaya, S.T., M.Eng.

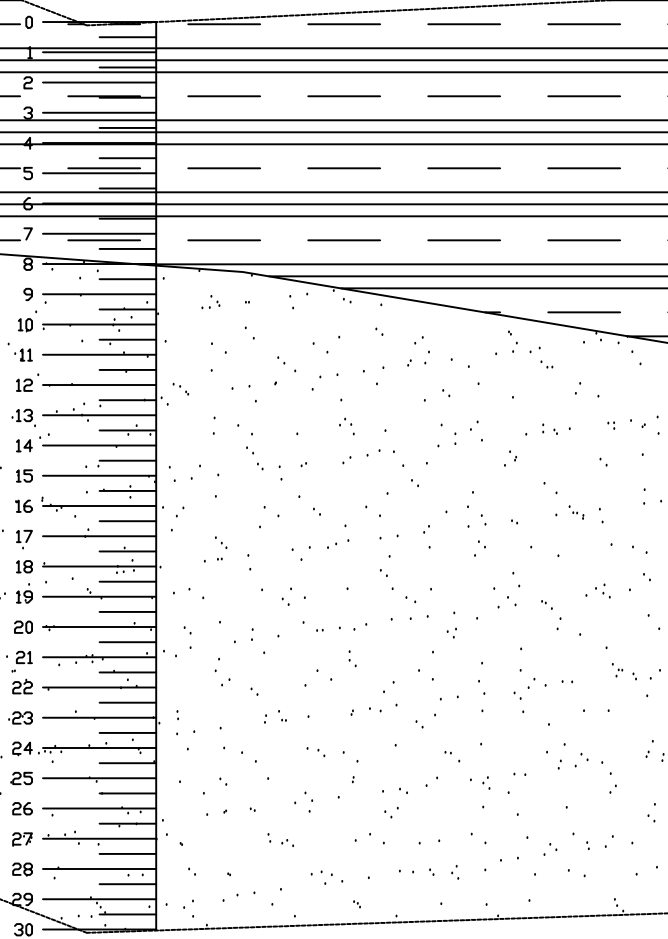
1 : 1500

STA 2+125 - STA 2+250

CPT-1



CPT-2



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

STRATIGRAFI TANAH

DIGAMBAR & DISUSUN

GABRIEL VITORIAN CRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

DISETUJUI

Ir. William Wijaya, S.T., M.Eng.

KETERANGAN

- LANAU SEDIKIT BERPASIR
- LANAU LEMPUNG BERPASIR
- PASIR
- BATUAN LANAU LEMPUNG

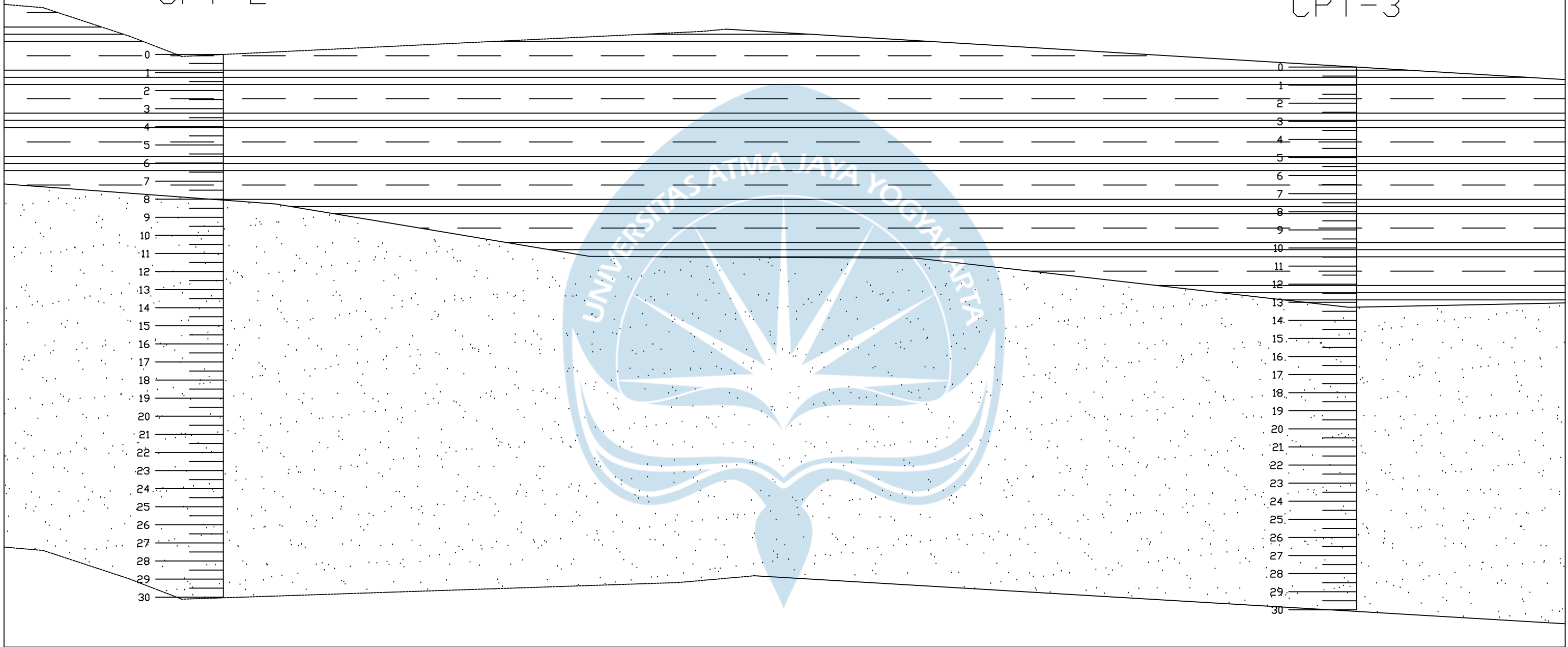
SKALA

1 : 1500

STA 2+250 - STA 2+375

CPT-2

CPT-3



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

DIGAMBAR & DISUSUN

DISETUJUI

KETERANGAN

STRATIGRAFI TANAH

GABRIEL VITORIAN CRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

Ir. William Wijaya, S.T., M.Eng.

- LANAU SEDIKIT BERPASIR
- LANAU LEMPUNG BERPASIR
- PASIR
- BATUAN LANAU LEMPUNG

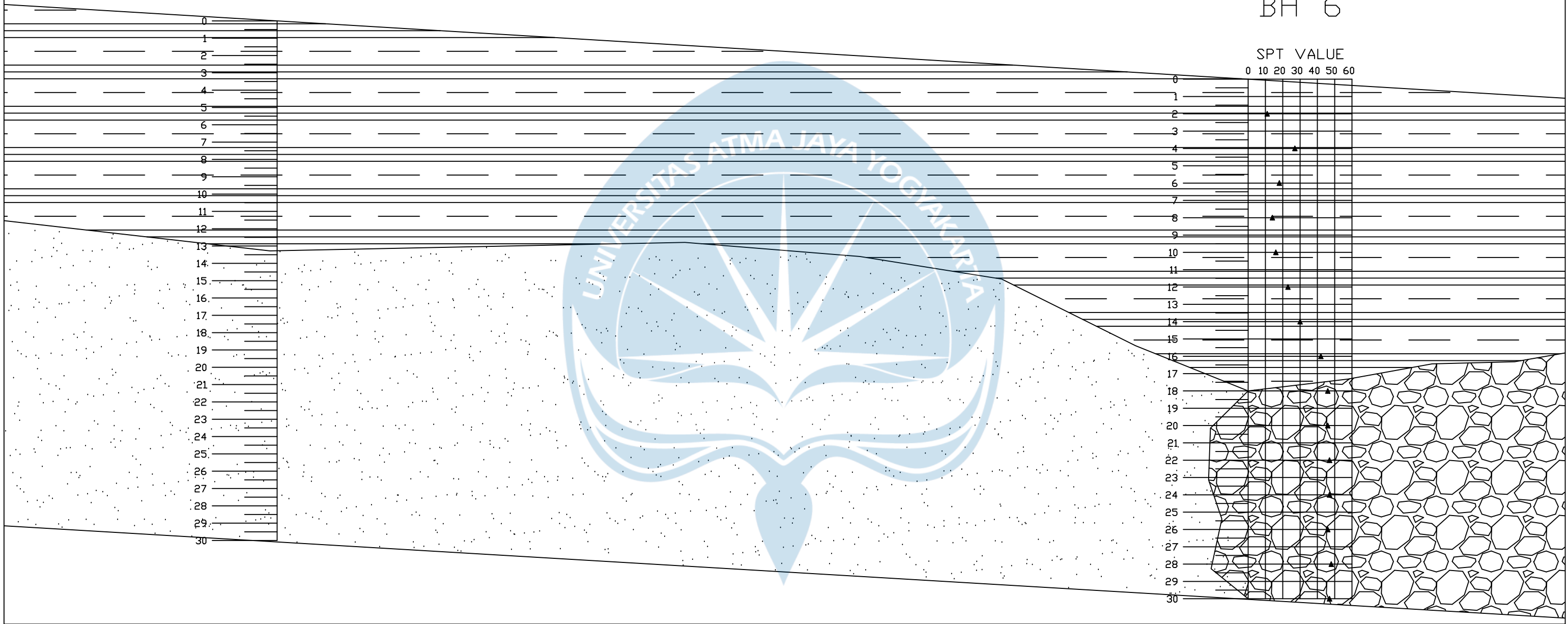
SKALA

1 : 1500

STA 2+375 - STA 2+500

CPT-3

BH 6



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

DIGAMBAR & DISUSUN

DISETUJUI

KETERANGAN

GABRIEL VITORIAN CRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

Ir. William Wijaya, S.T., M.Eng.

- LANAU SEDIKIT BERPASIR
- LANAU LEMPUNG BERPASIR
- PASIR
- BATUAN LANAU LEMPUNG

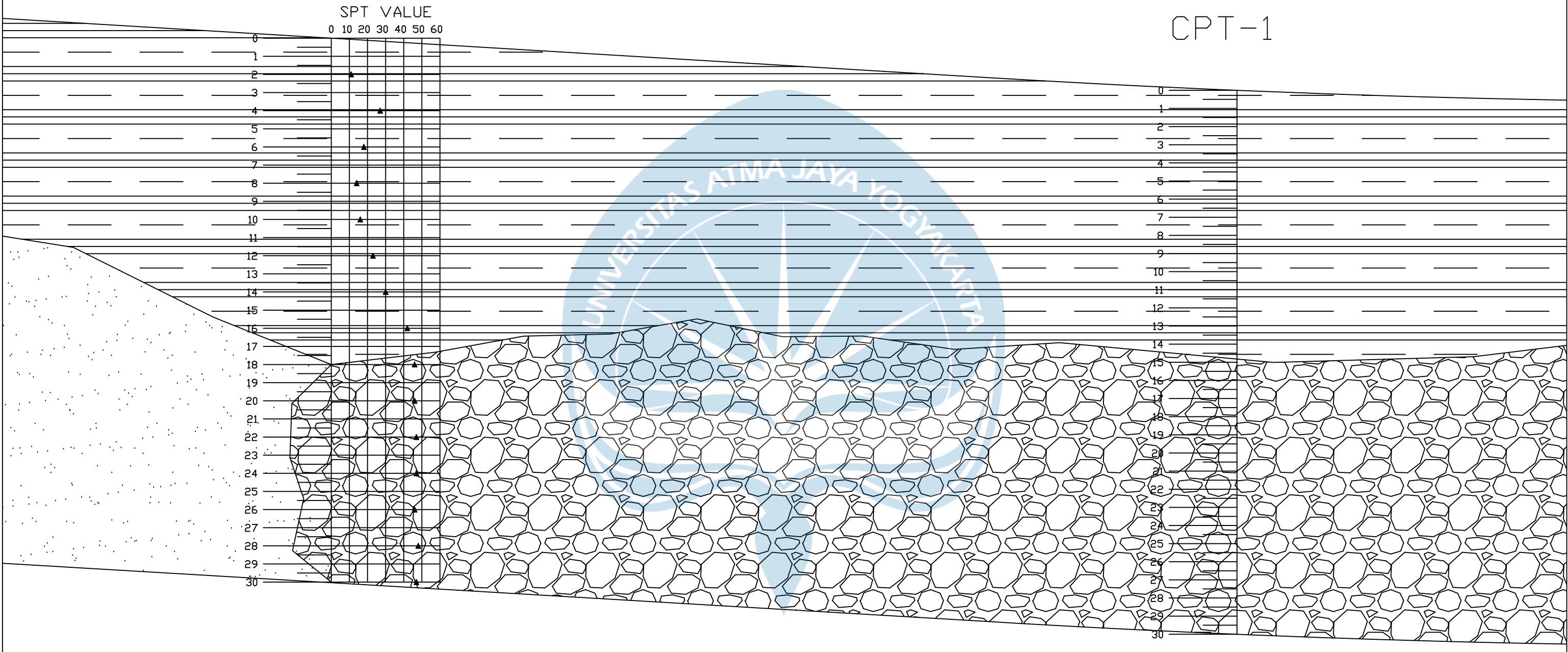
SKALA

1 : 1500

STRATIGRAFI TANAH

STA 2+500 - STA 2+600

BH 6



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

DIGAMBAR & DISUSUN

DISETUJUI

KETERANGAN

GABRIEL VITORIAN CRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

STRATIGRAFI TANAH

- LANAU SEDIKIT BERPASIR
- LANAU LEMPUNG BERPASIR
- PASIR
- BATUAN LANAU LEMPUNG

SKALA

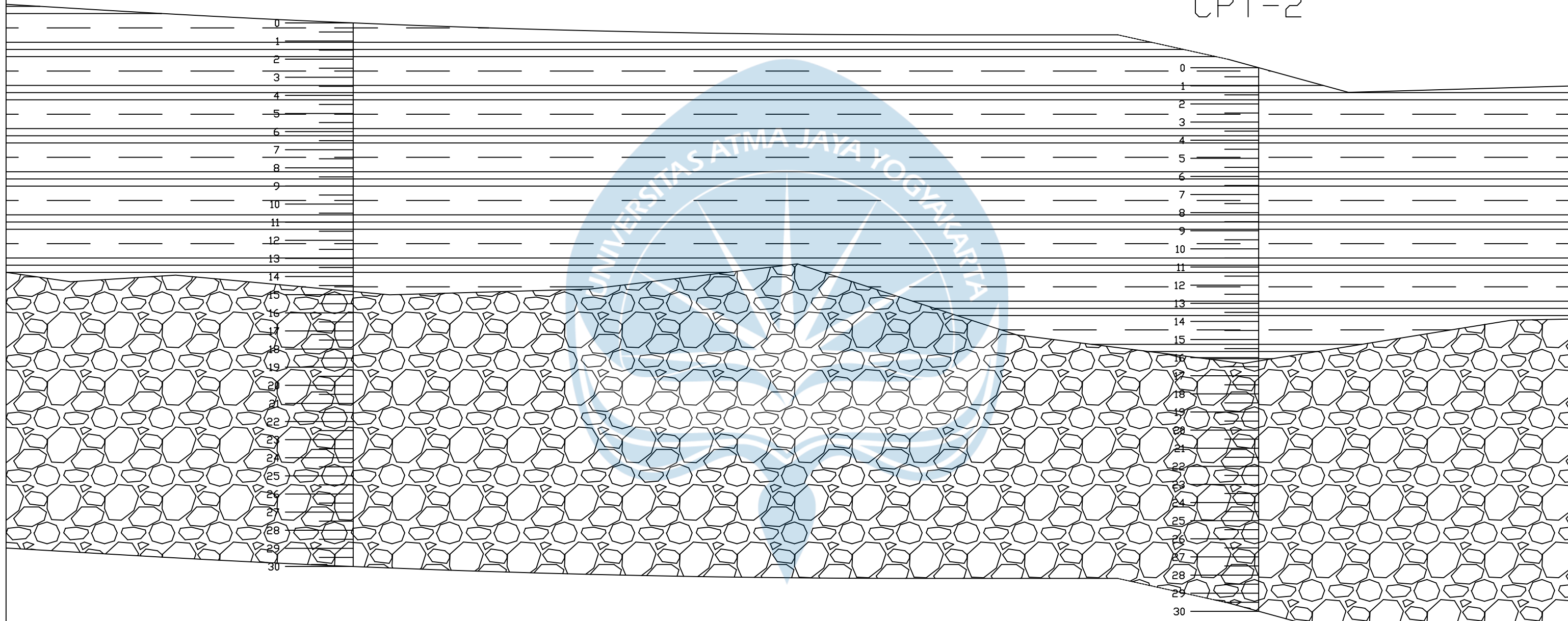
Ir. William Wijaya, S.T., M.Eng.

1 : 1500

STA 2+600 - STA 2+700

CPT-1

CPT-2



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INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

STRATIGRAFI TANAH

DIGAMBAR & DISUSUN

GABRIEL VITORIAN CRISTALLO (210218572)
JUAN CAHYO PATABANG (210218862)

DISETUJUI

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KETERANGAN

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- LANAU LEMPUNG BERPASIR
- PASIR
- BATUAN LANAU LEMPUNG

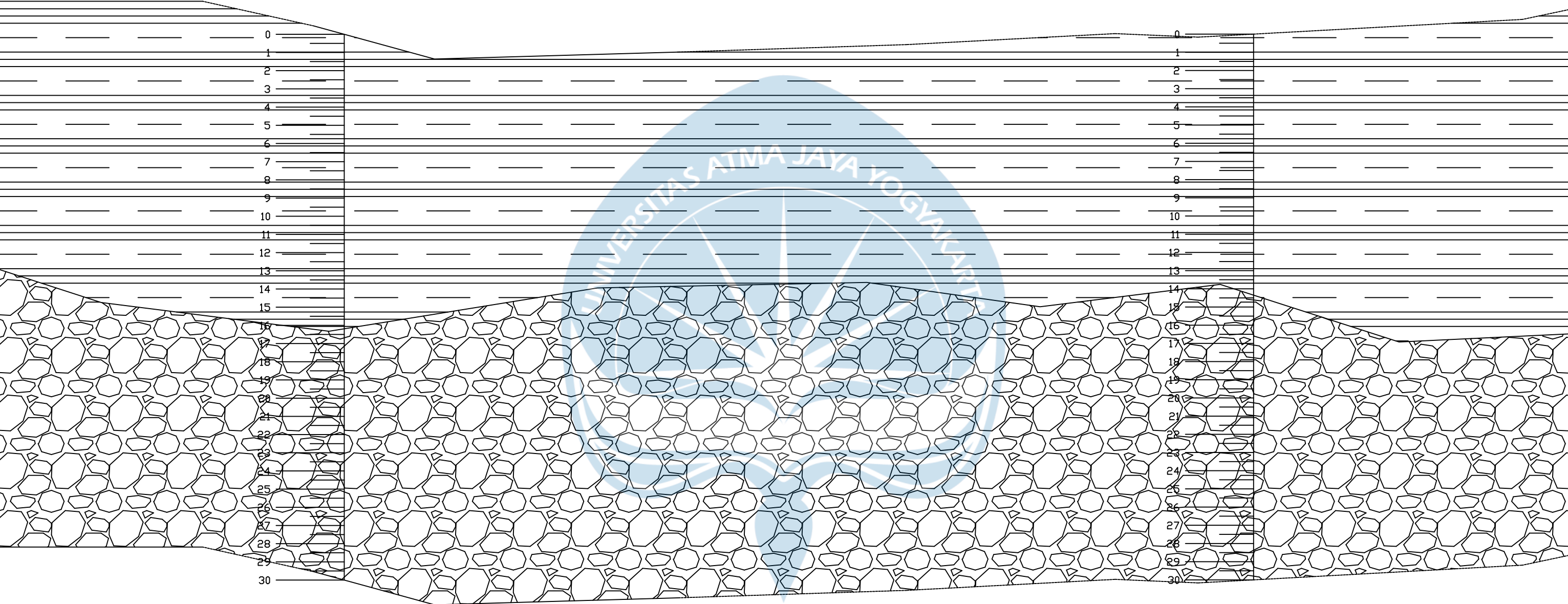
SKALA

1 : 1500

STA 2+700 - STA 2+800

CPT-2

CPT-3



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INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

DIGAMBAR & DISUSUN

DISETUJUI

KETERANGAN

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JUAN CAHYO PATABANG (210218862)

STRATIGRAFI TANAH

- LANAU SEDIKIT BERPASIR
- LANAU LEMPUNG BERPASIR
- PASIR
- BATUAN LANAU LEMPUNG

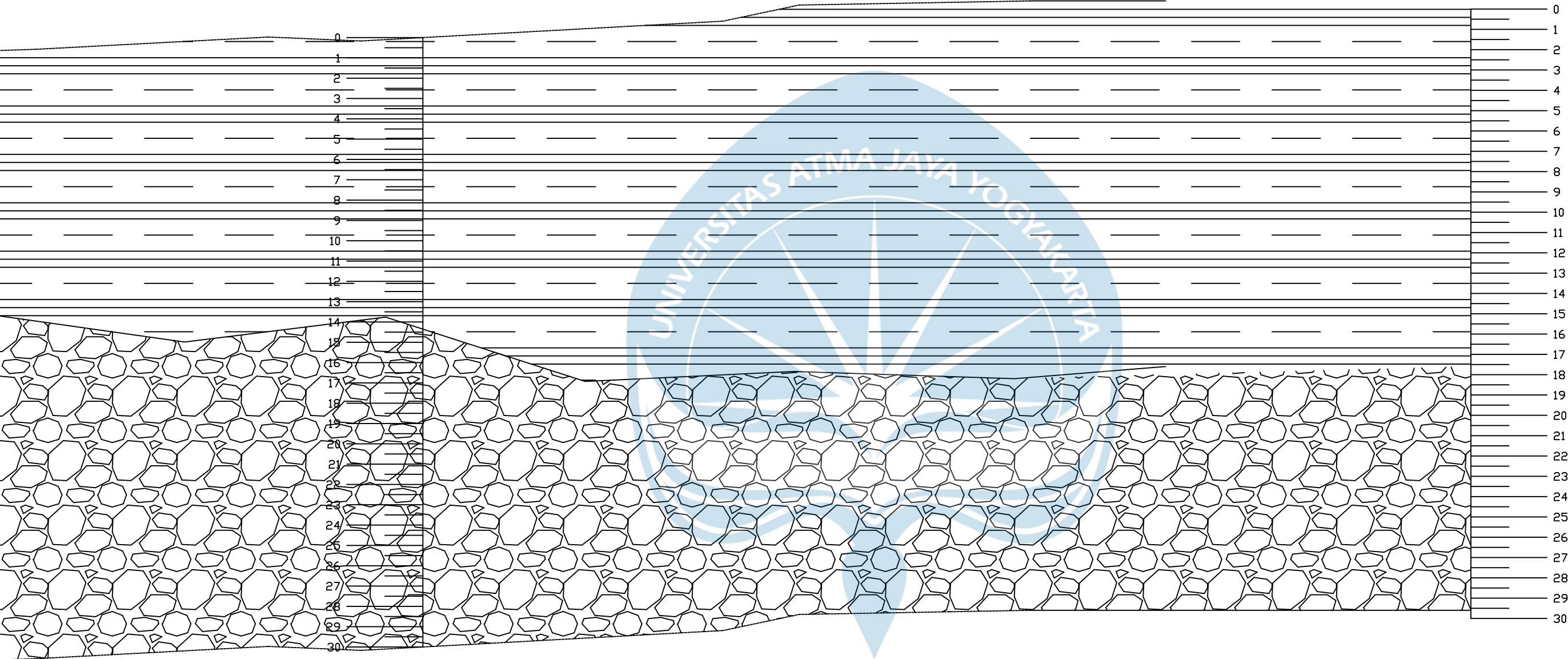
SKALA

Ir. William Wijaya, S.T., M.Eng.

1 : 1500

STA 2+800 - STA 2+860

CPT-3



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INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

STRATIGRAFI TANAH

DIGAMBAR & DISUSUN

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JUAN CAHYO PATABANG (210218862)

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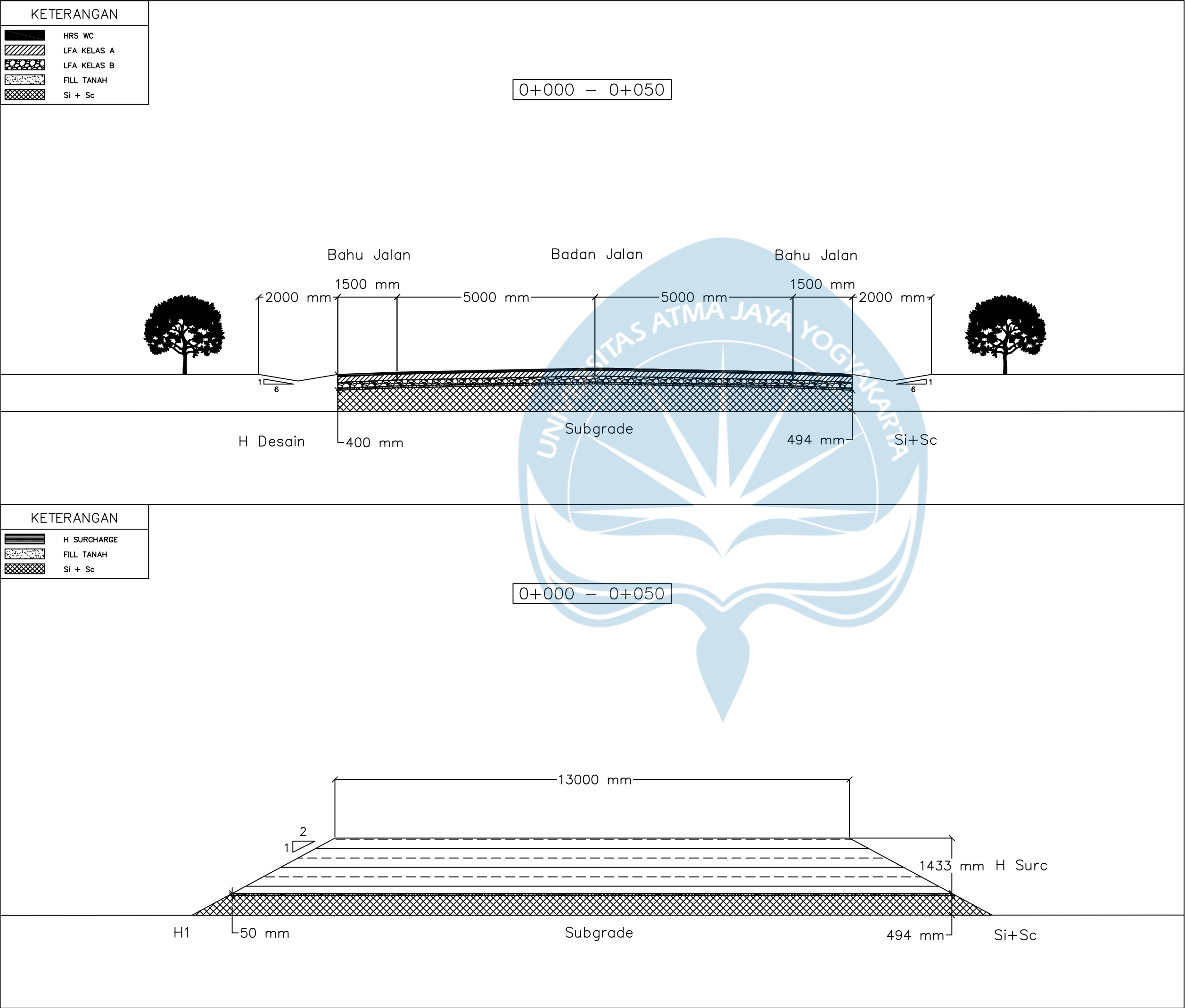
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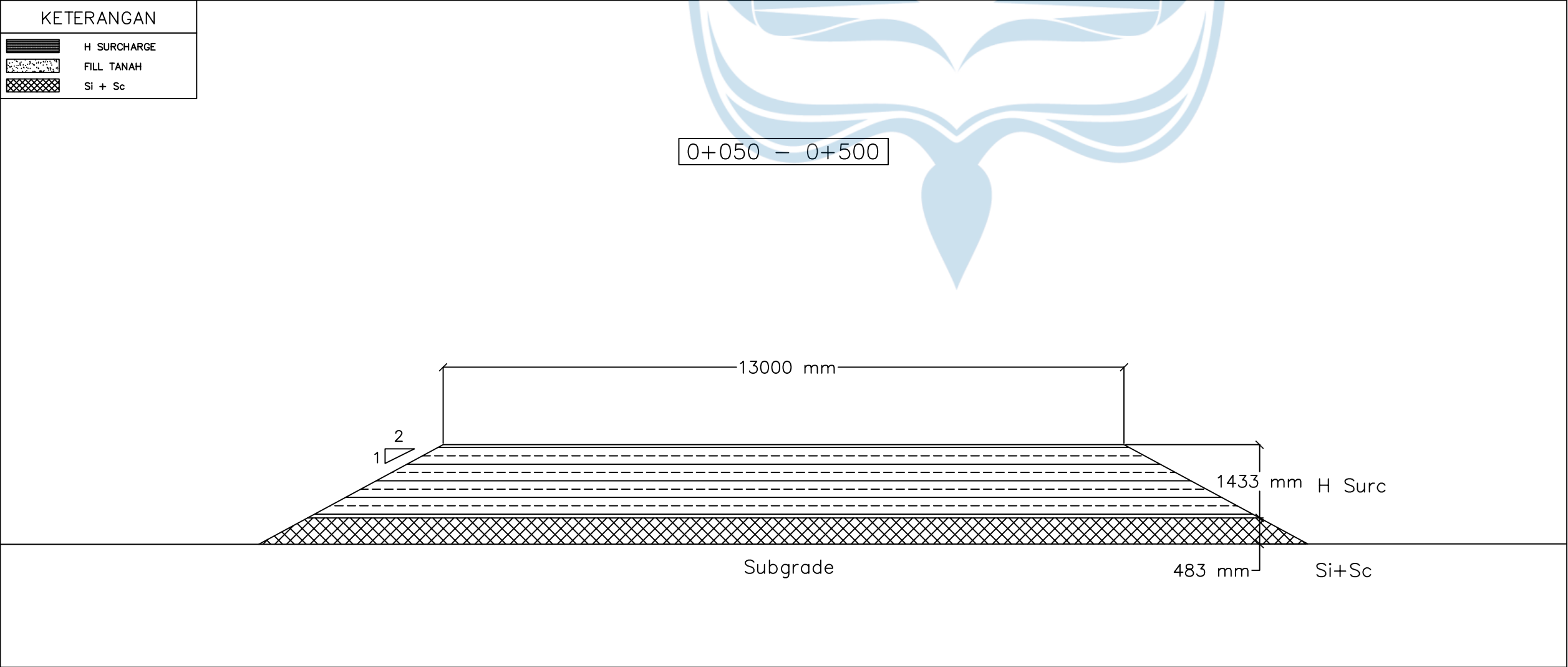
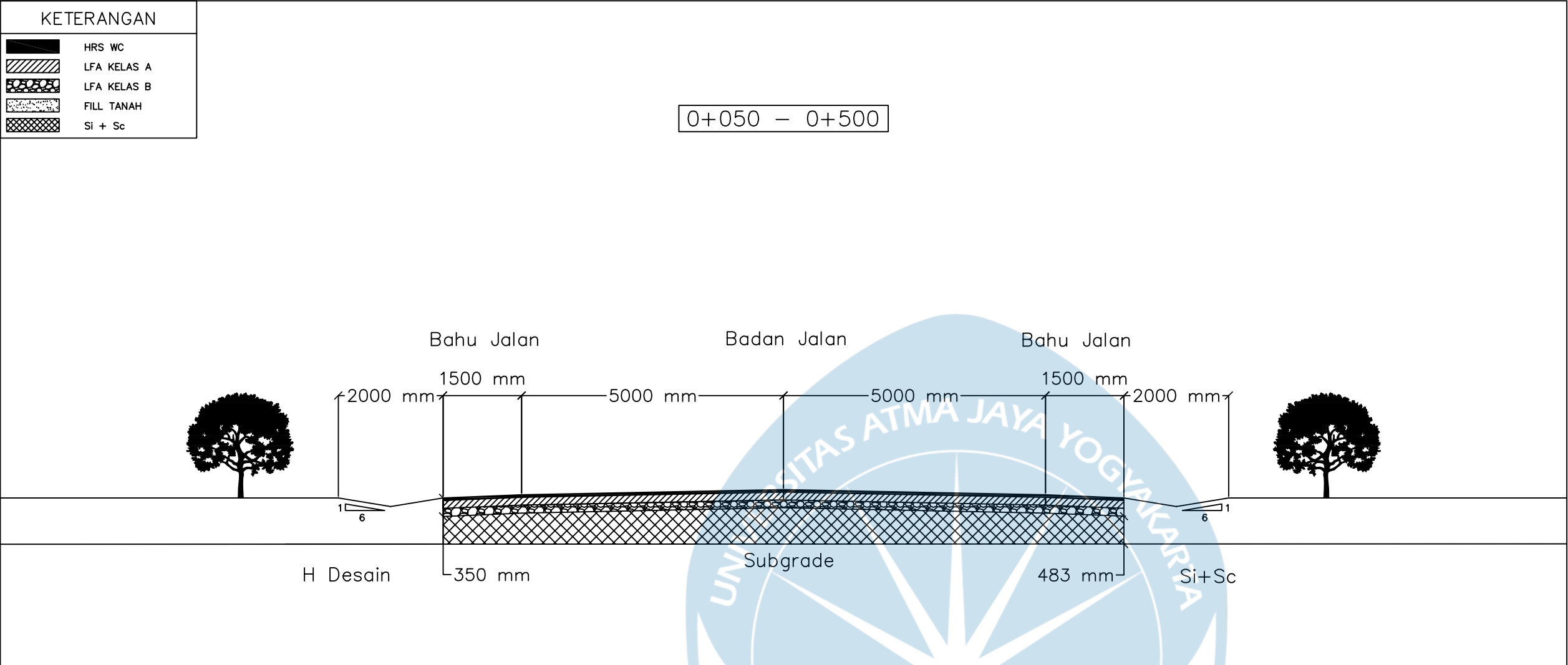
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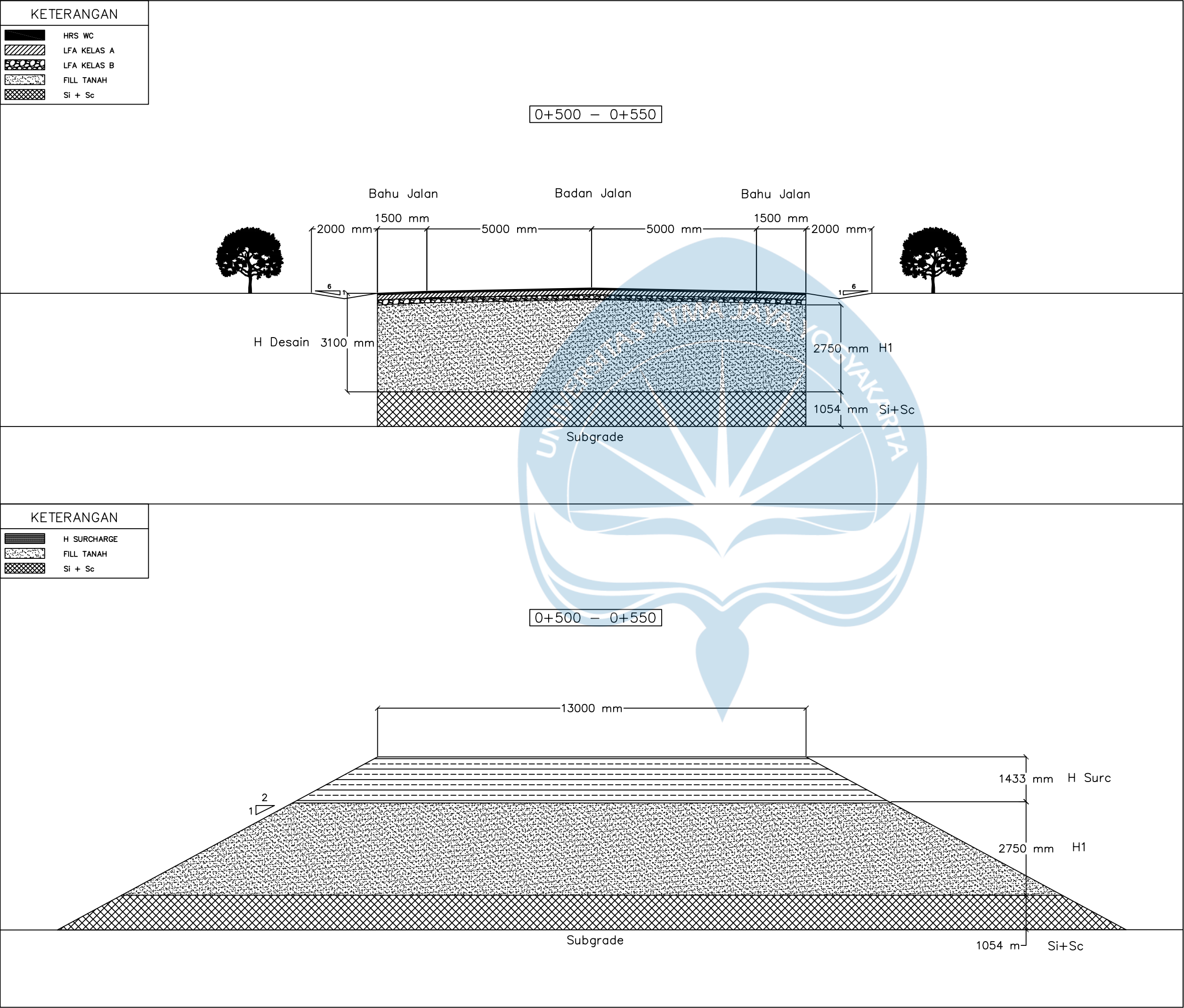
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- PASIR
- BATUAN LANAU LEMPUNG

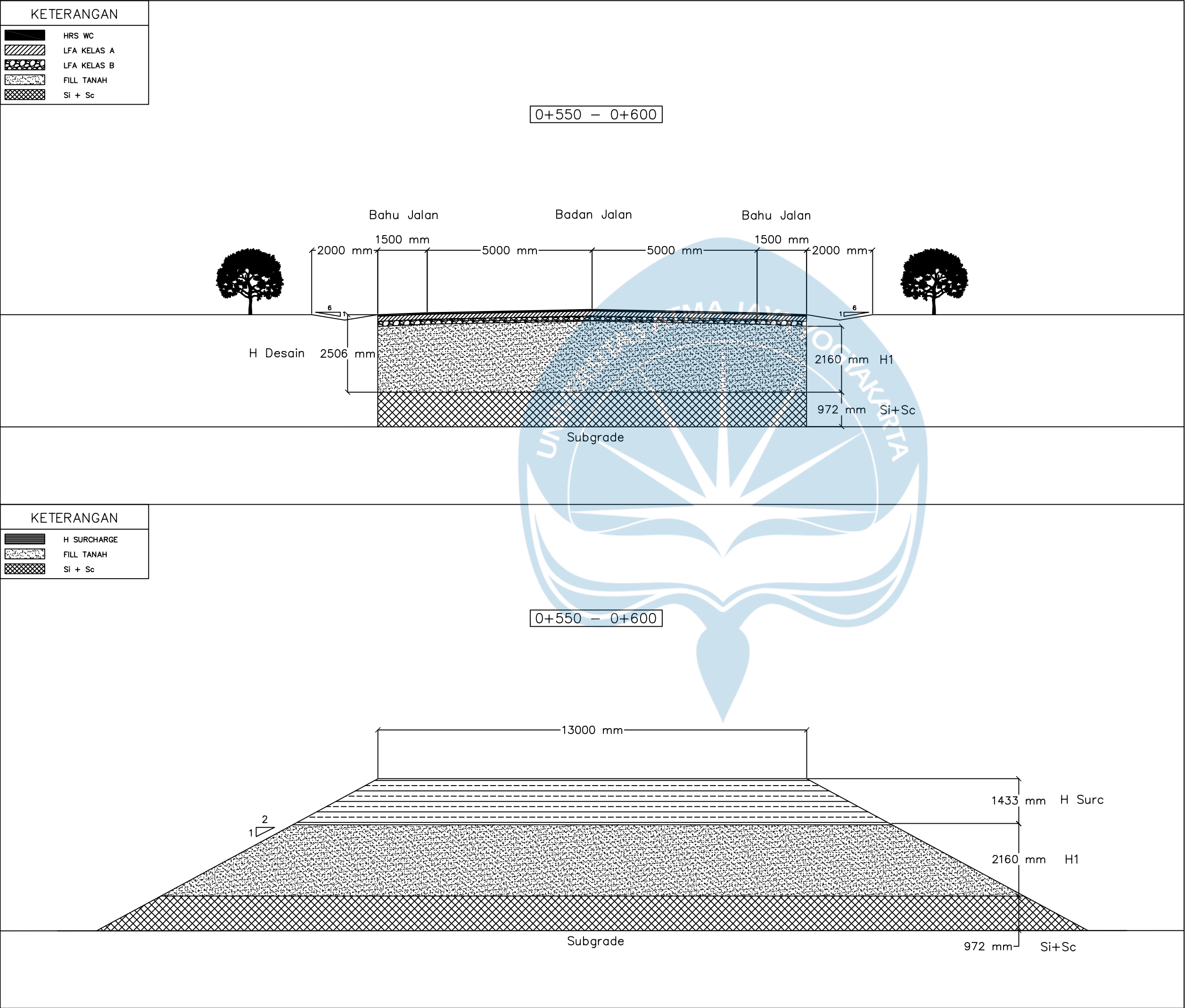
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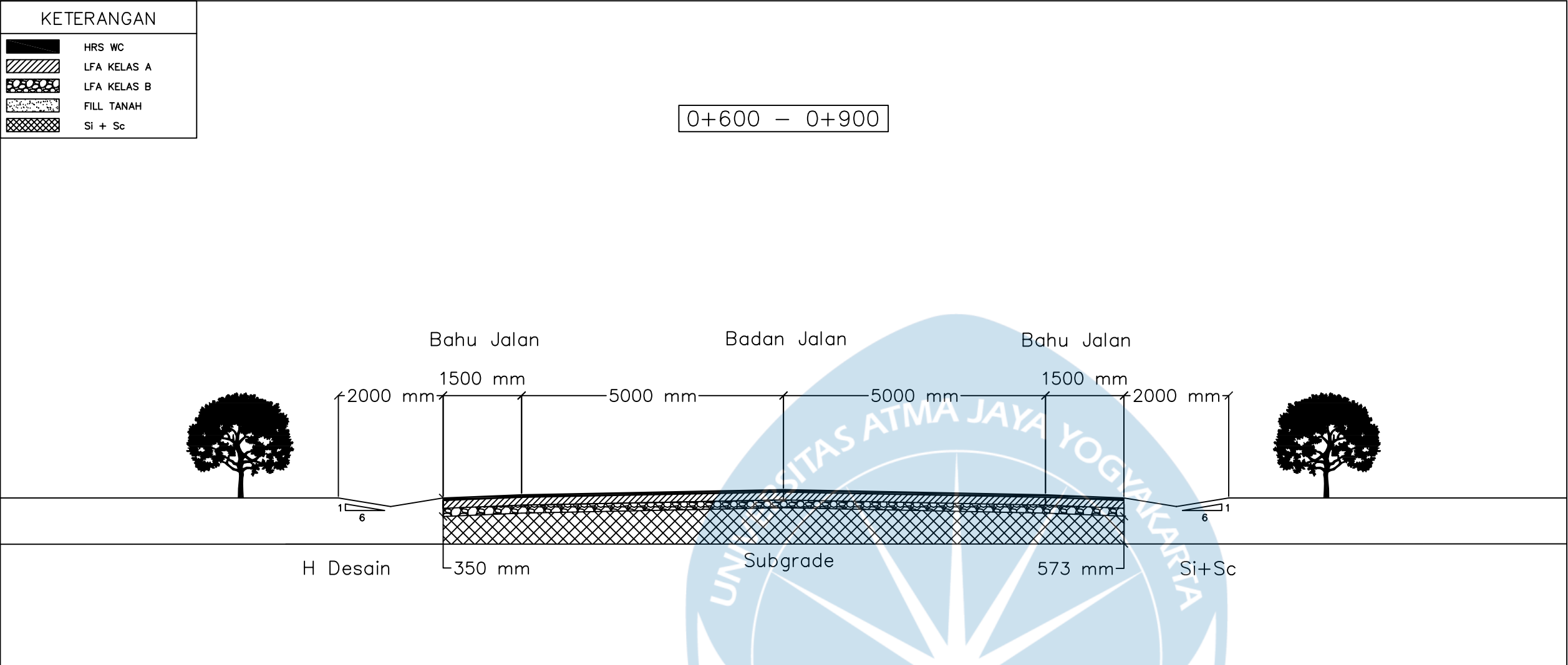
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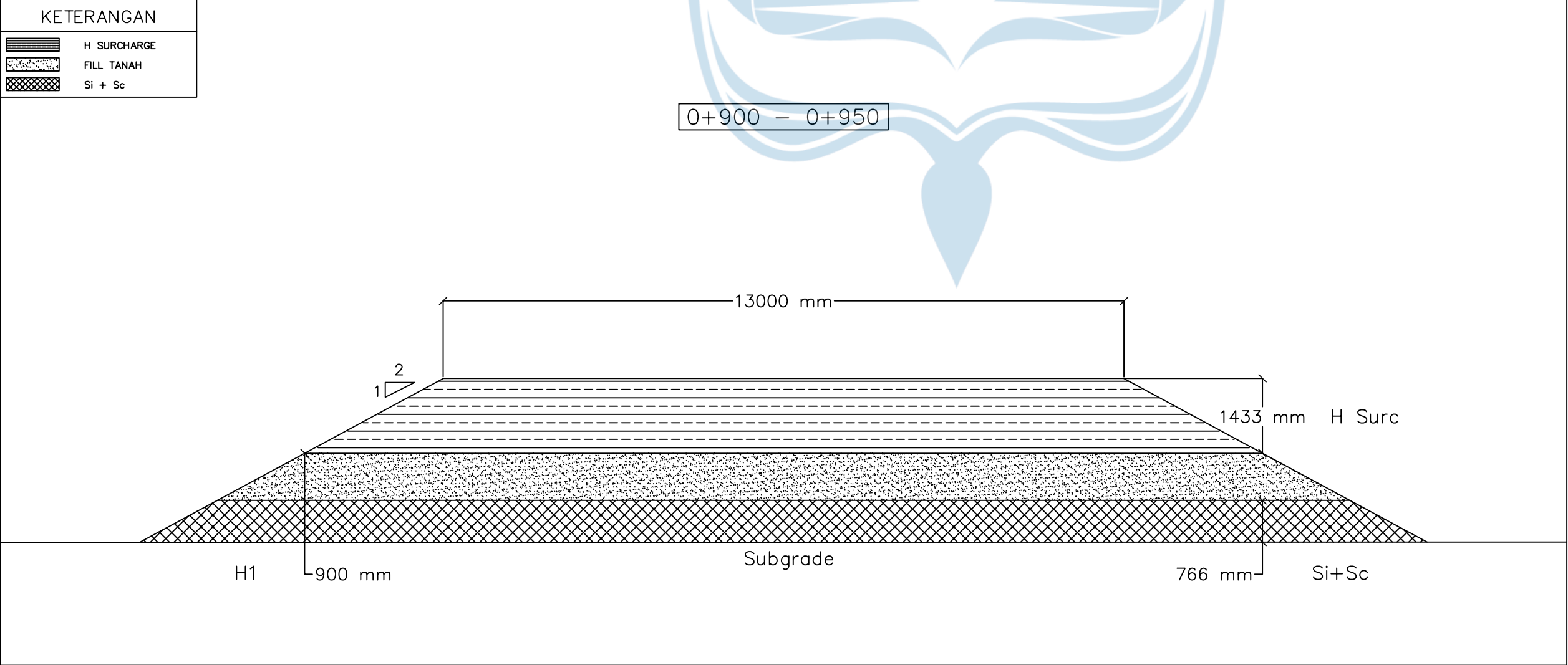
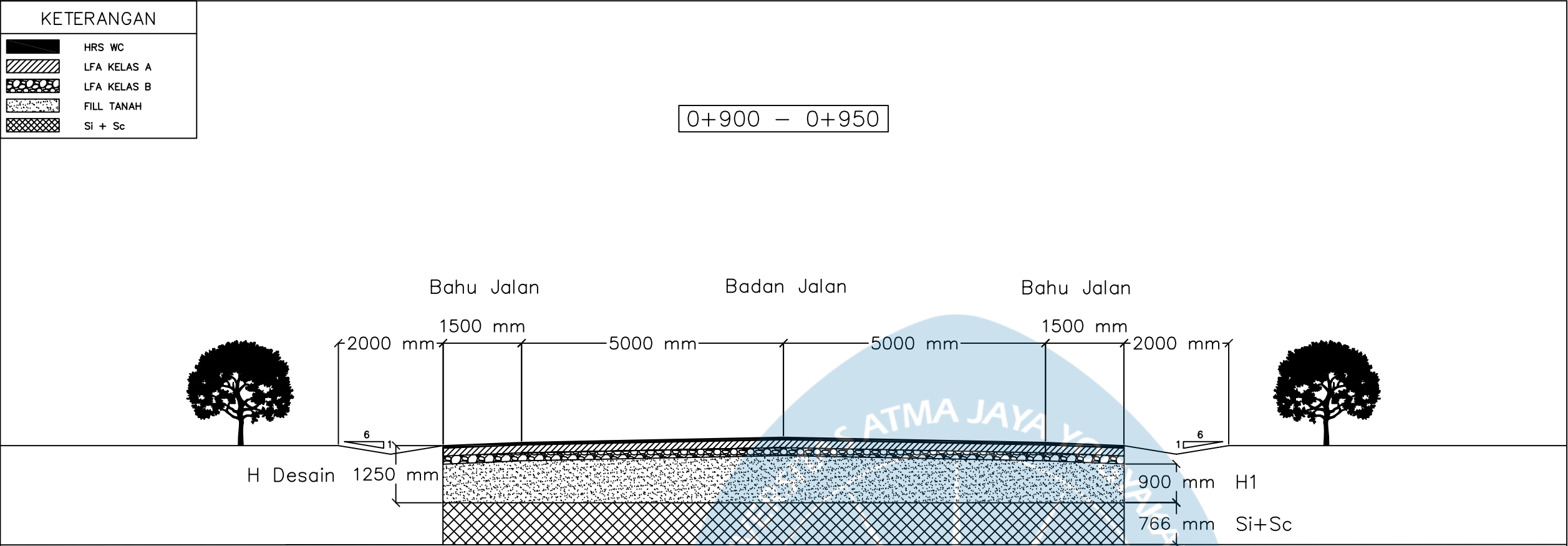














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INFRASTRUKTUR JALAN
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TAHUN AJARAN 2024/2025

GAMBAR KERJA

Penurunan Tanah
Segmen 2

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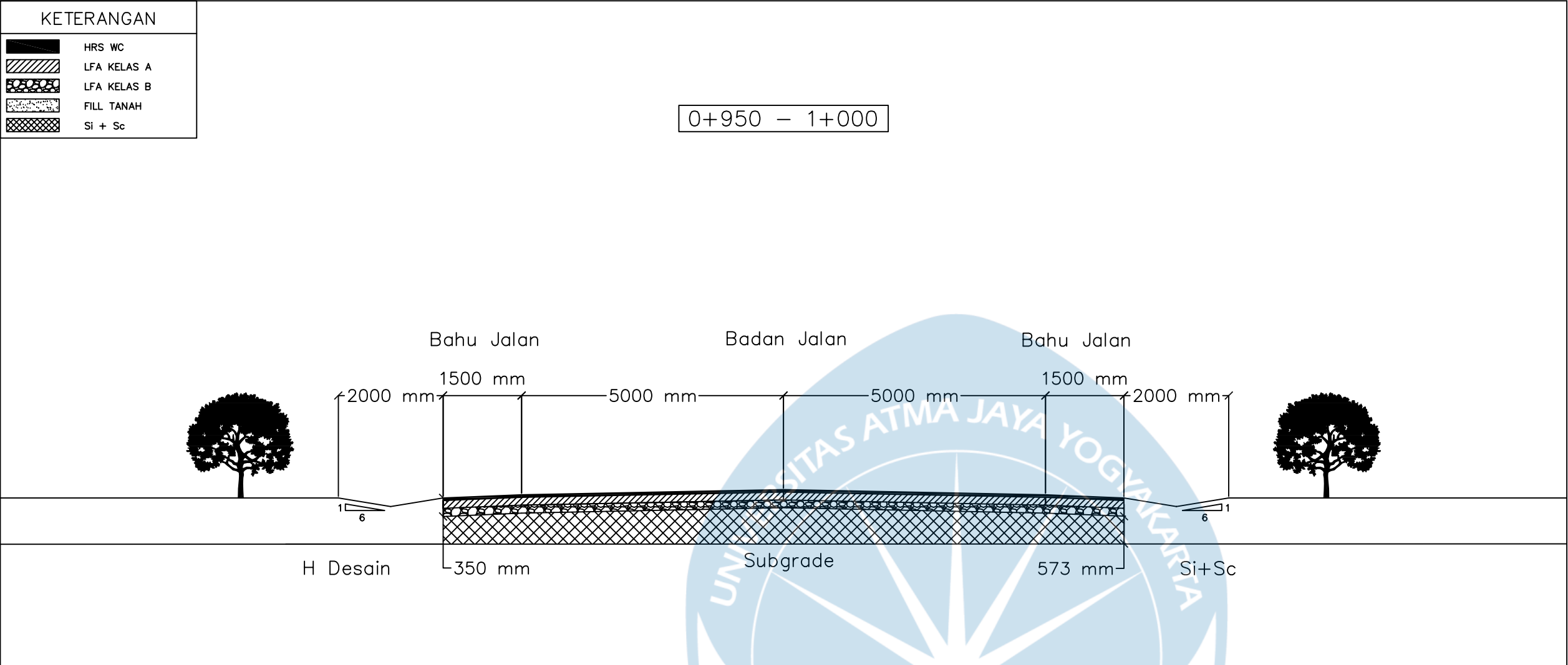
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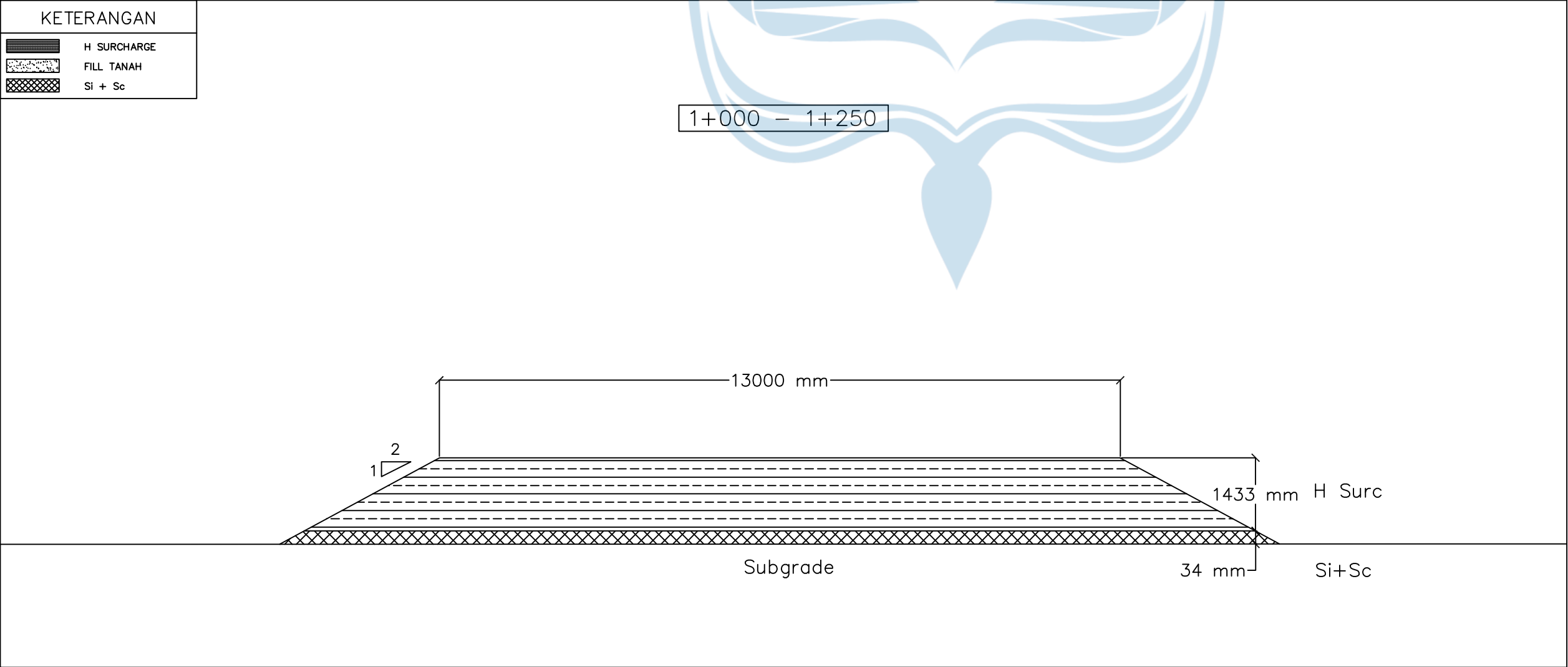
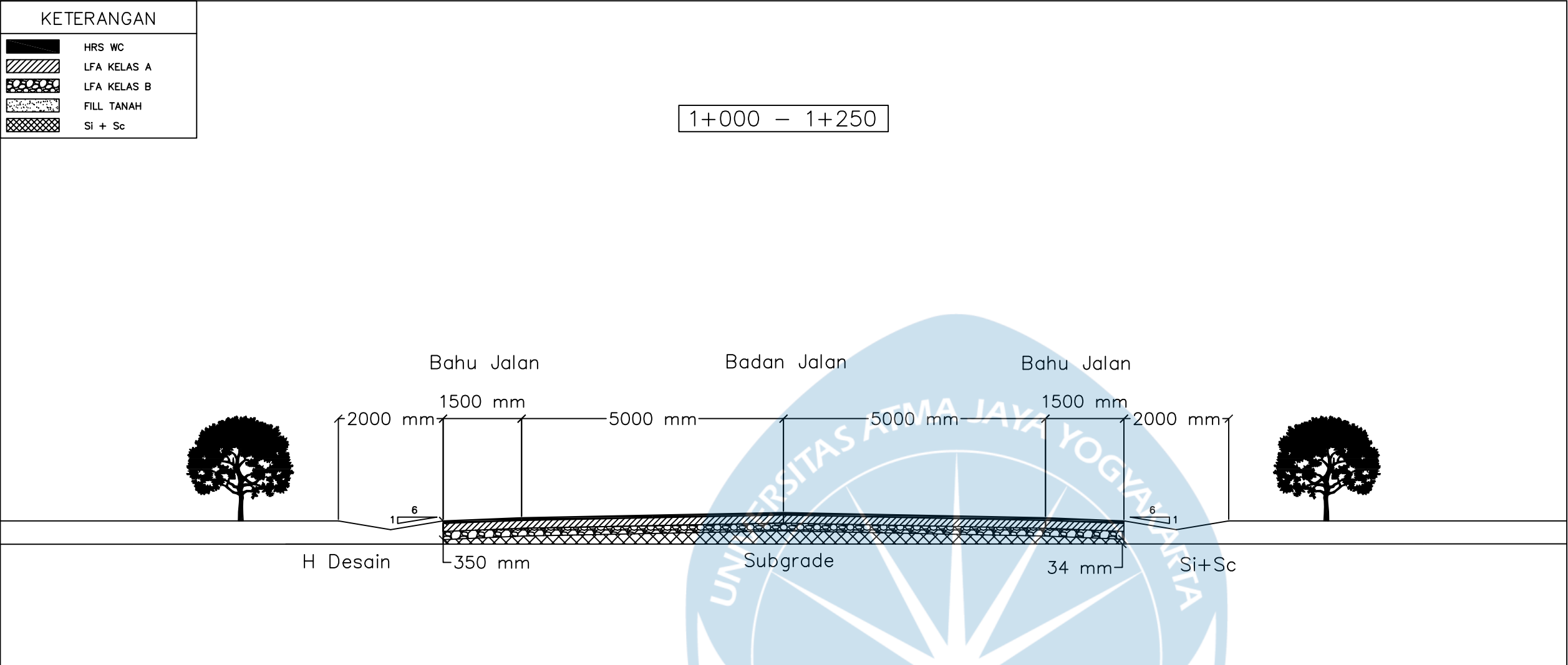
DISETUJUI

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SKALA

1 : 90





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INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

Penurunan Tanah
Segmen 3

DIGAMBAR & DISUSUN OLEH:

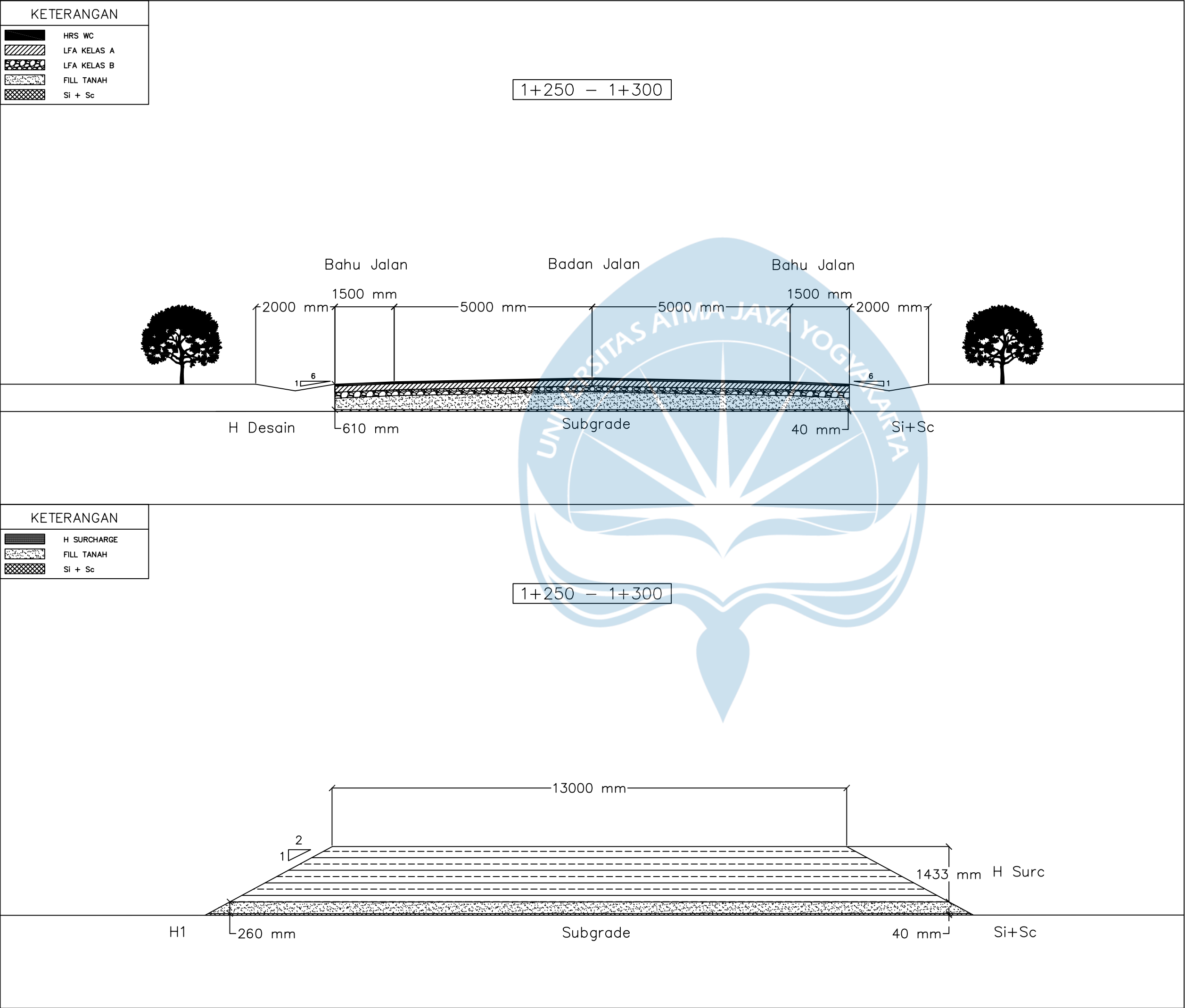
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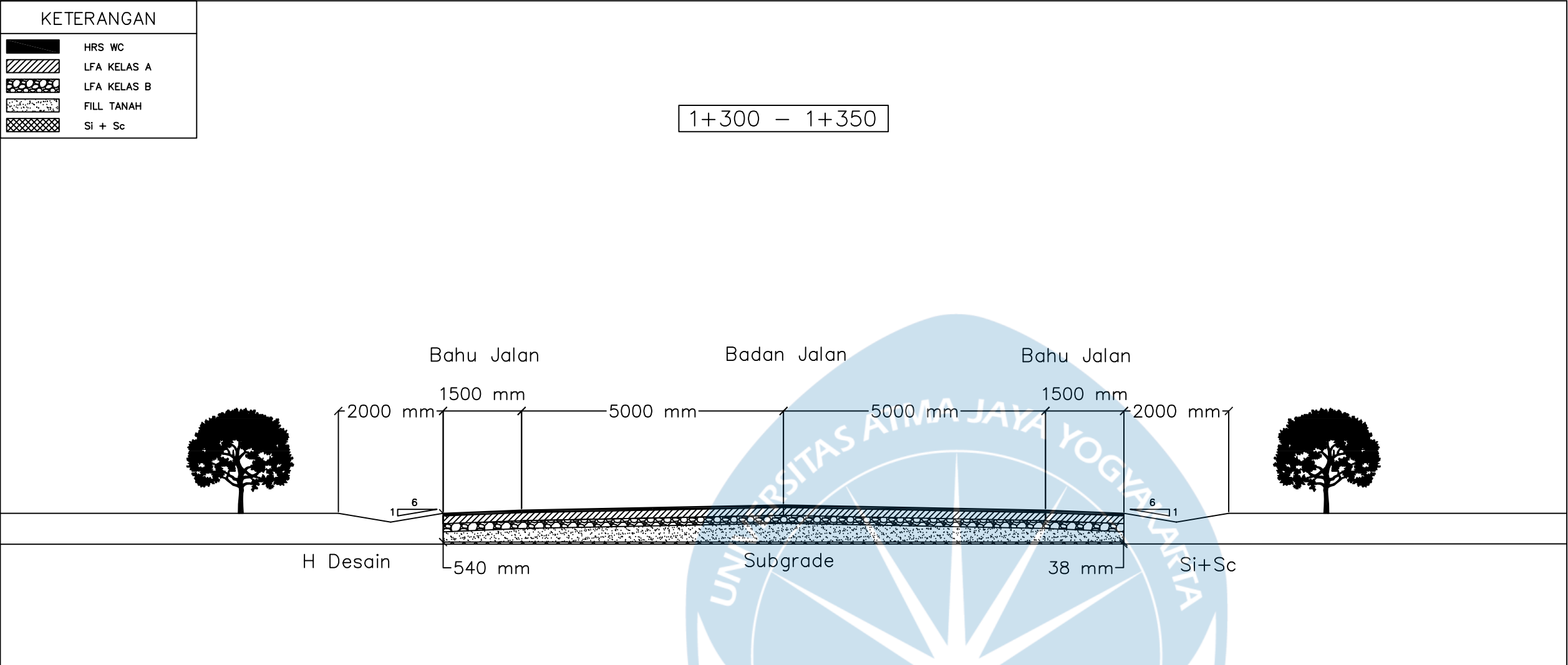
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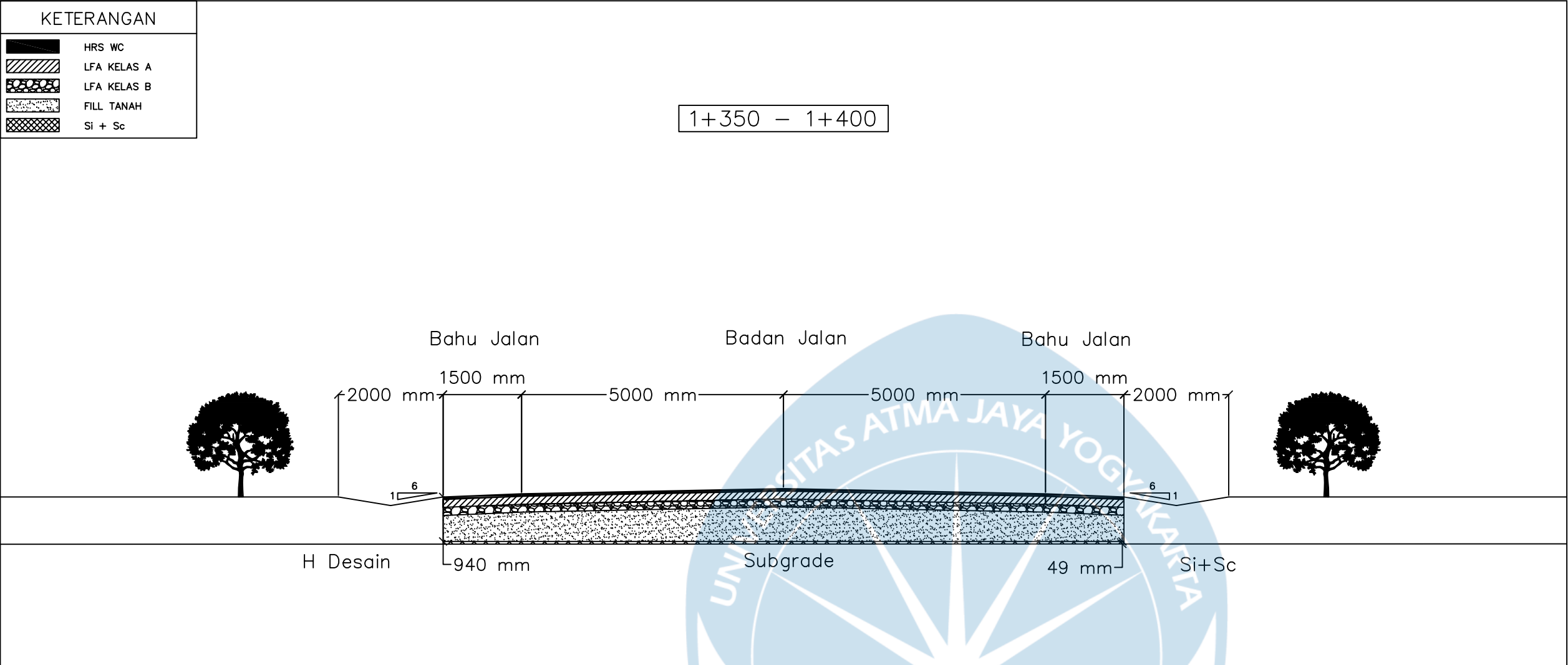
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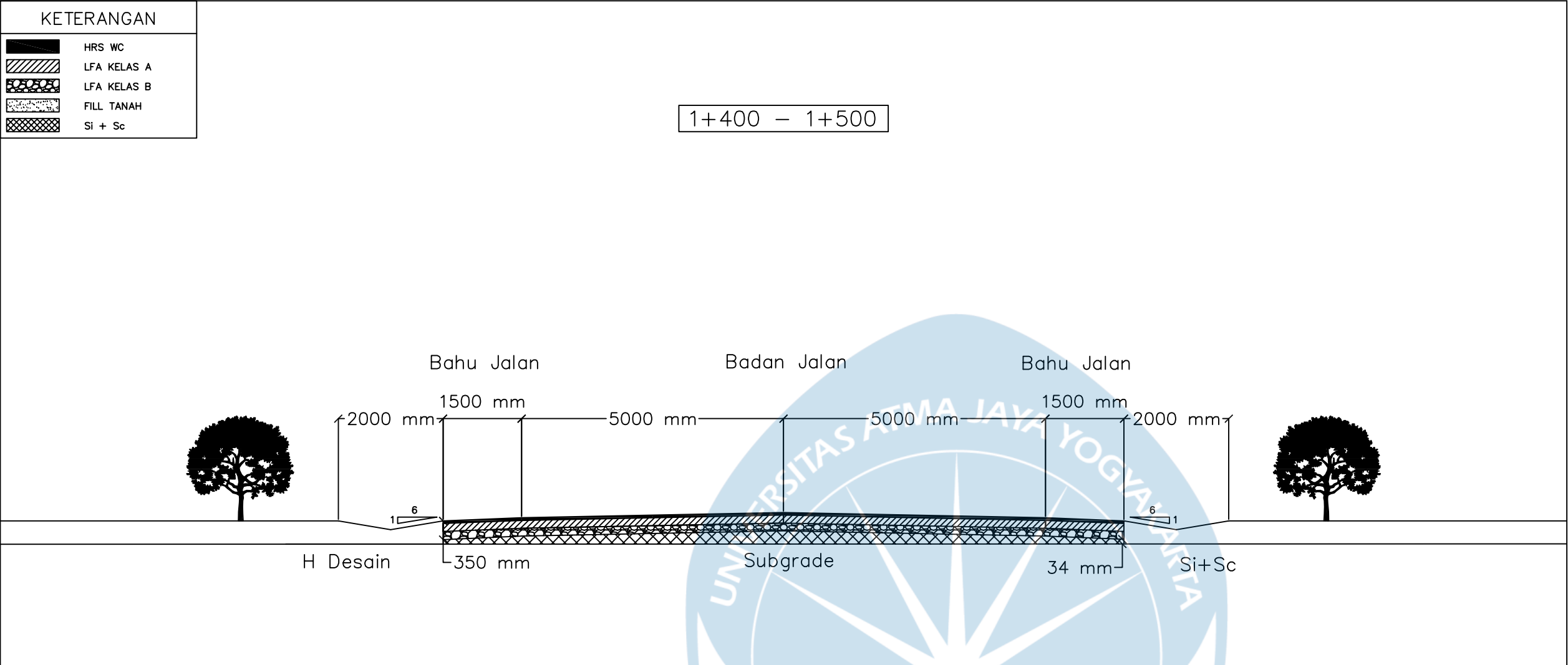
SKALA

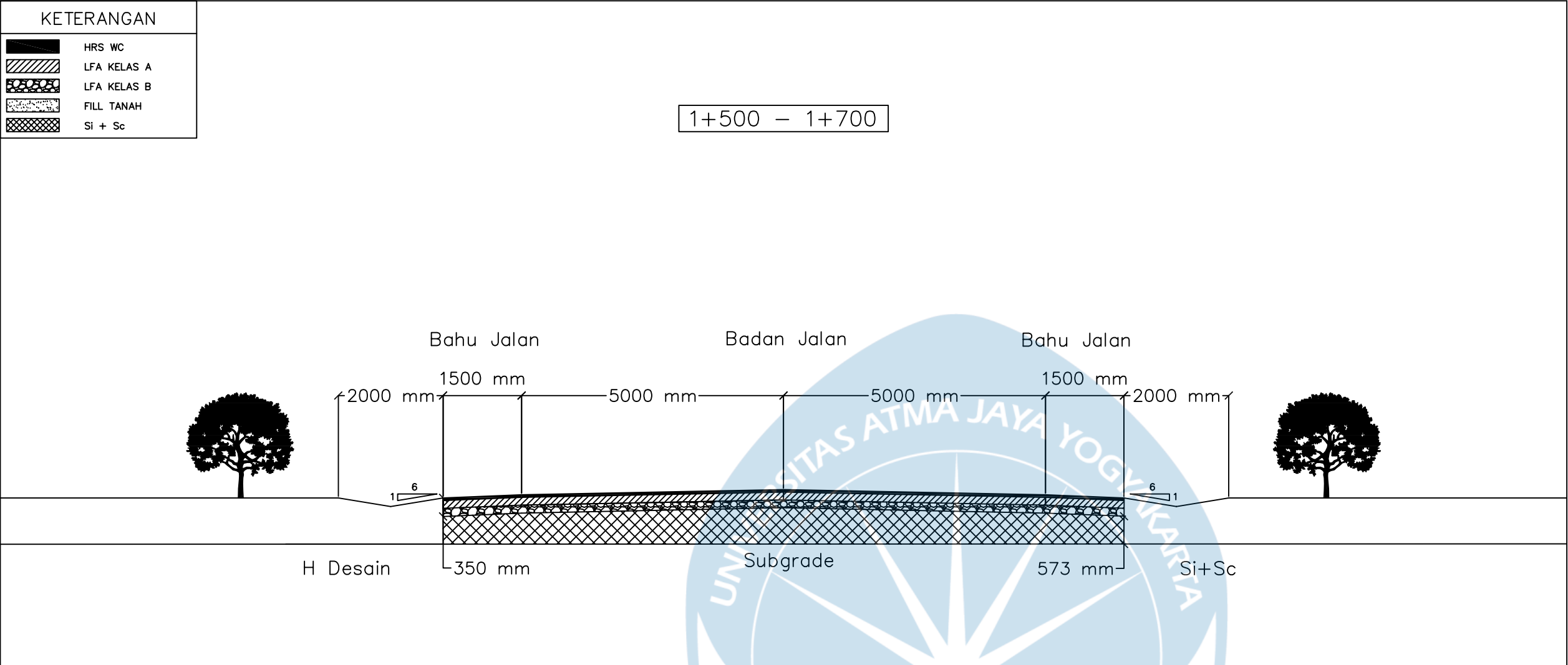
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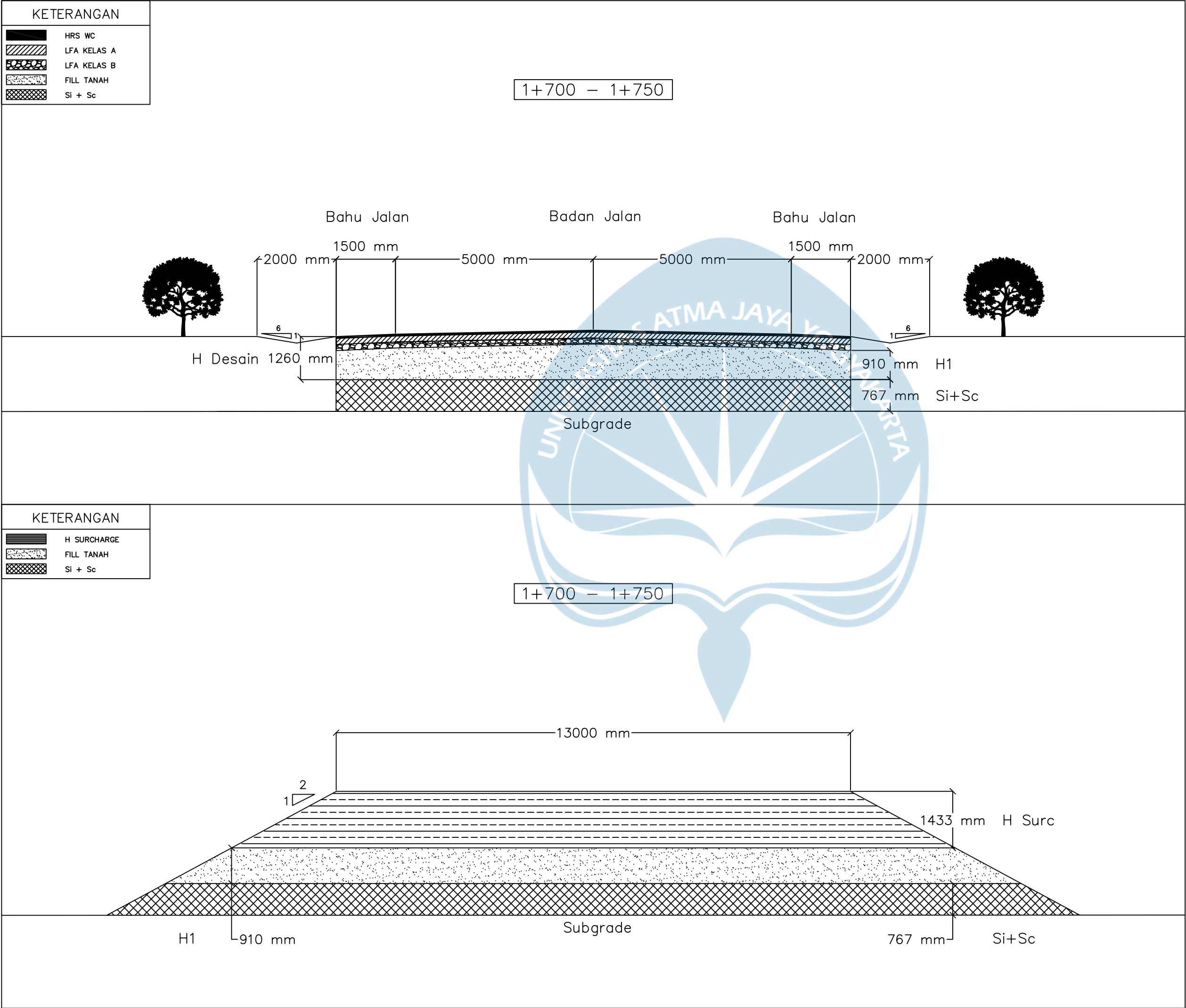


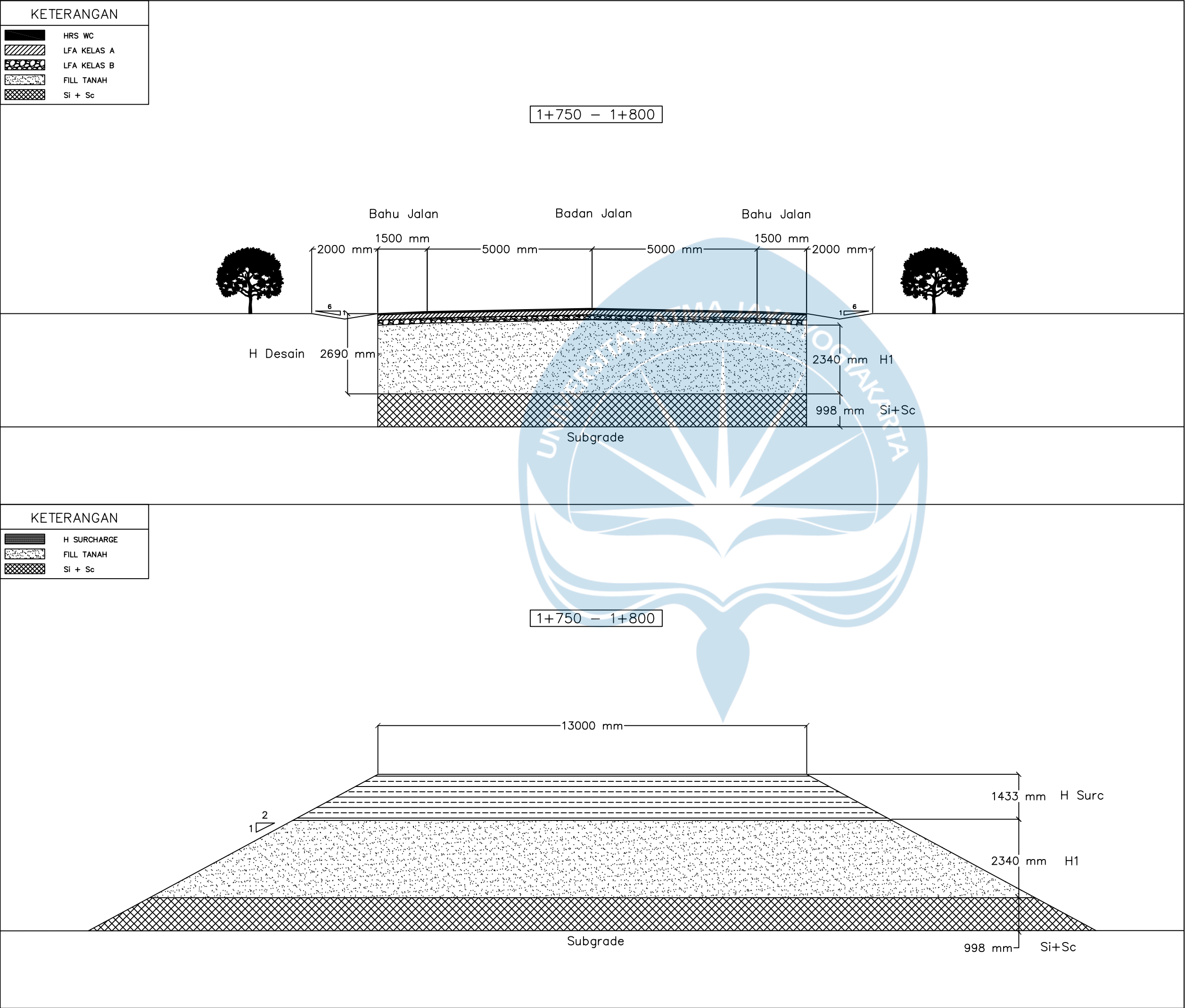














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SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

Penurunan Tanah
Segmen 4

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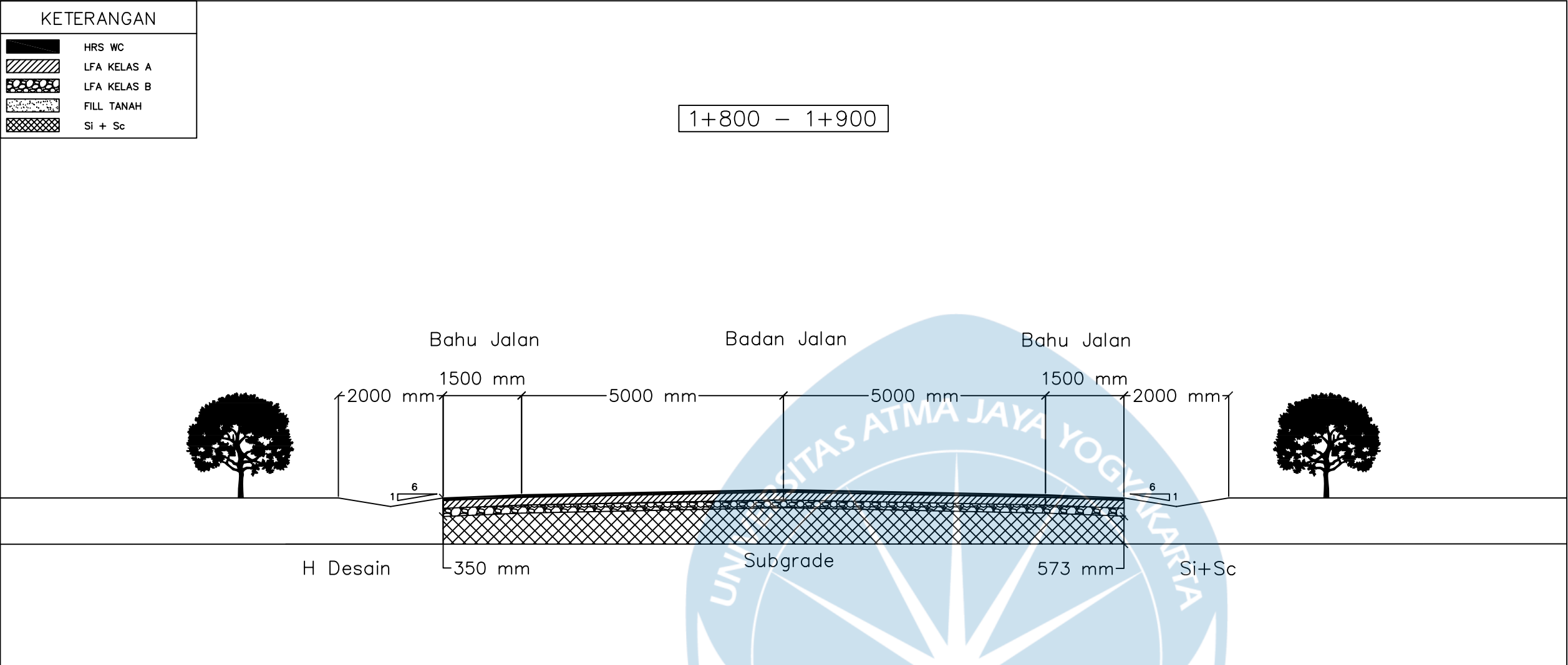
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JUAN CAHYO PATABANG (210218862)

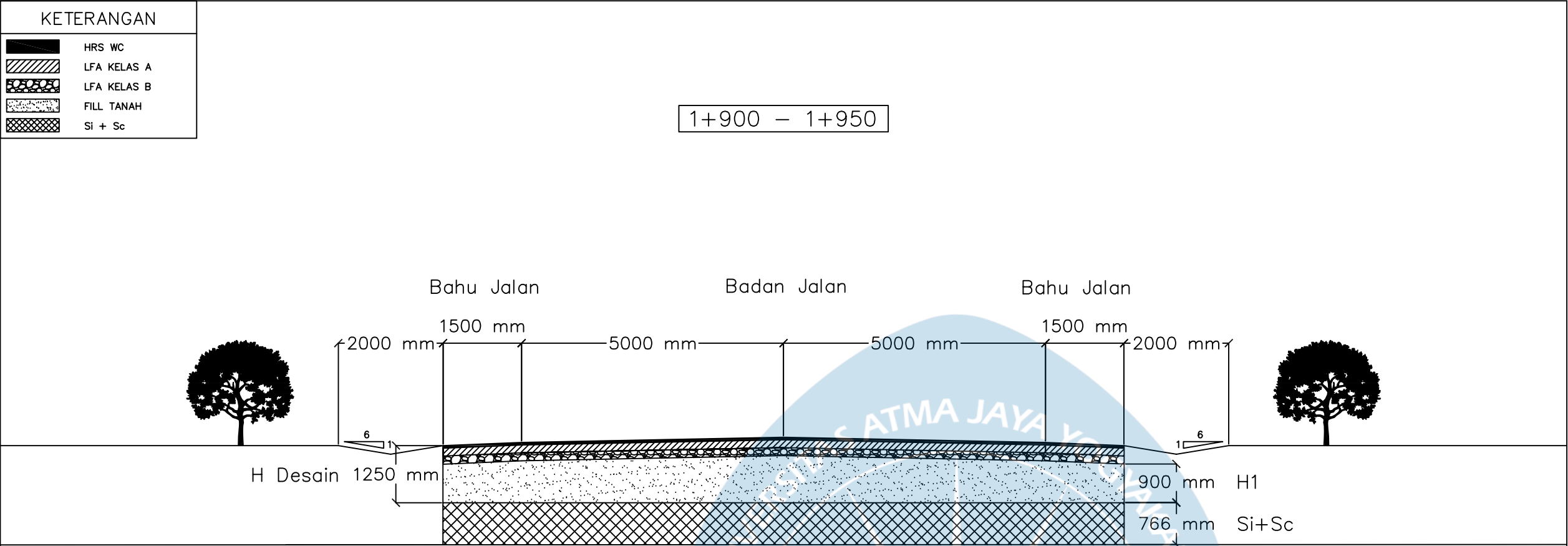
DISETUJUI

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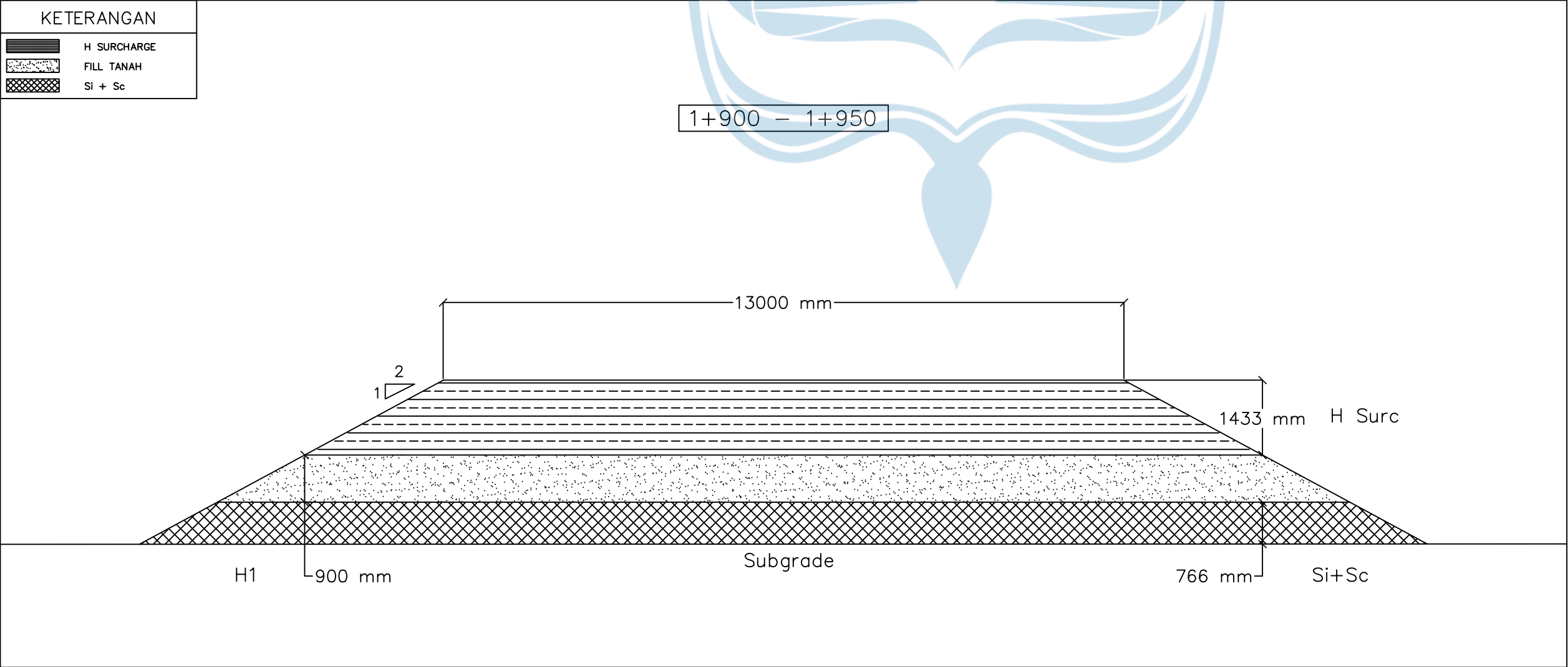
SKALA

1 : 108





Subgrade





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SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

Penurunan Tanah
Segmen 4

DIGAMBAR & DISUSUN OLEH:

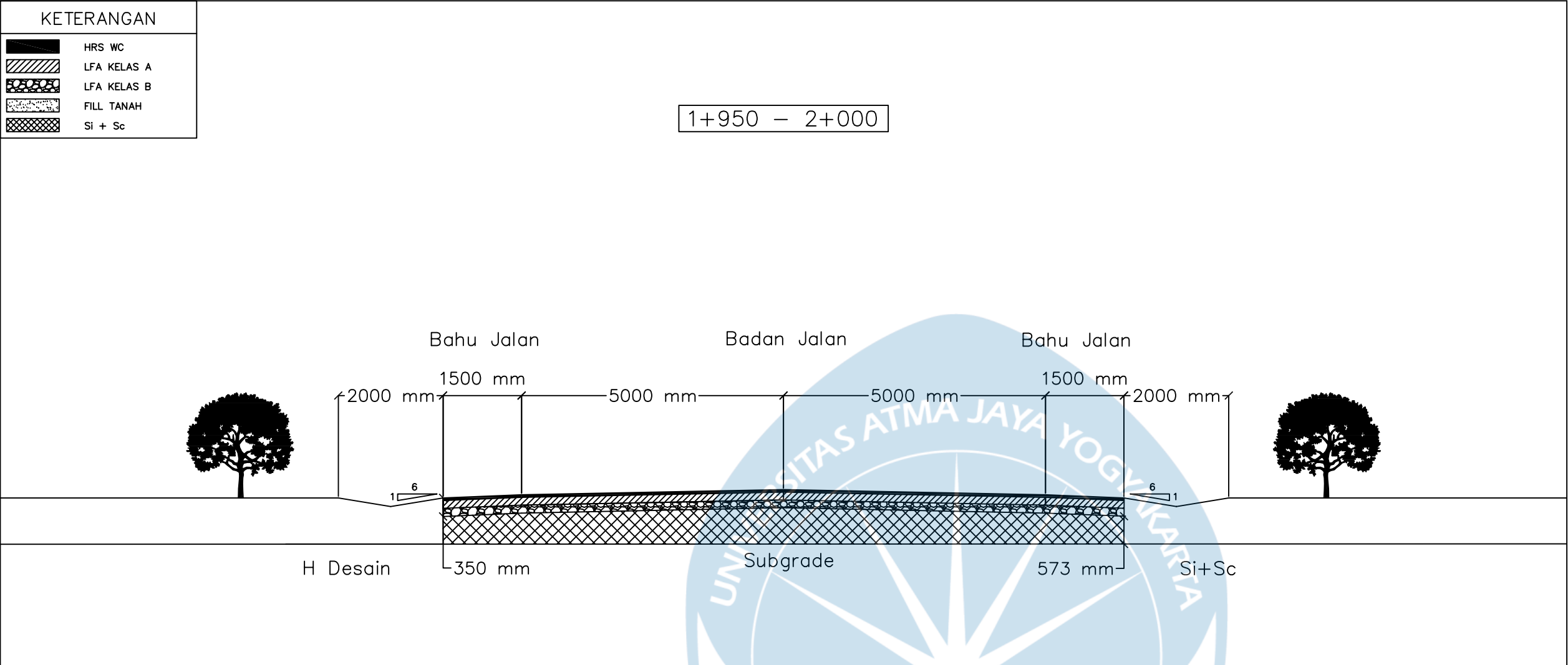
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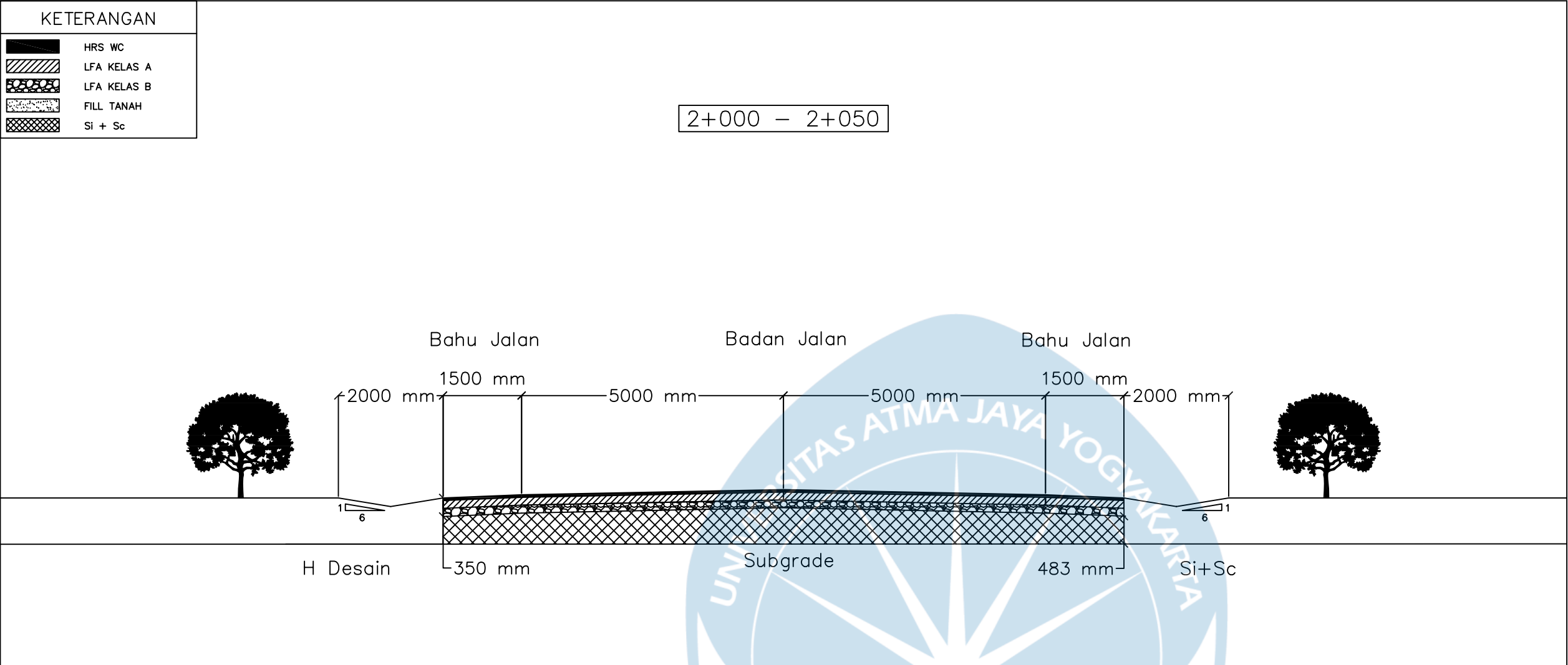
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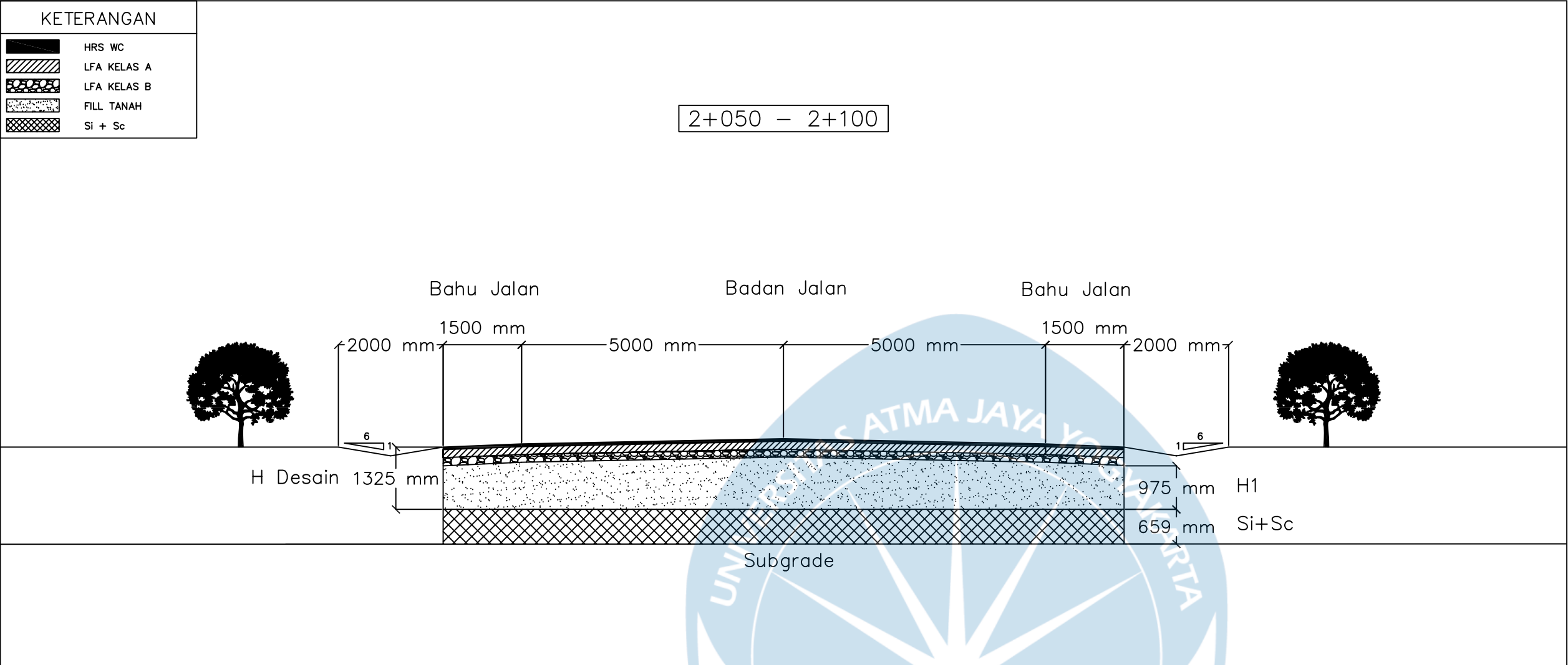
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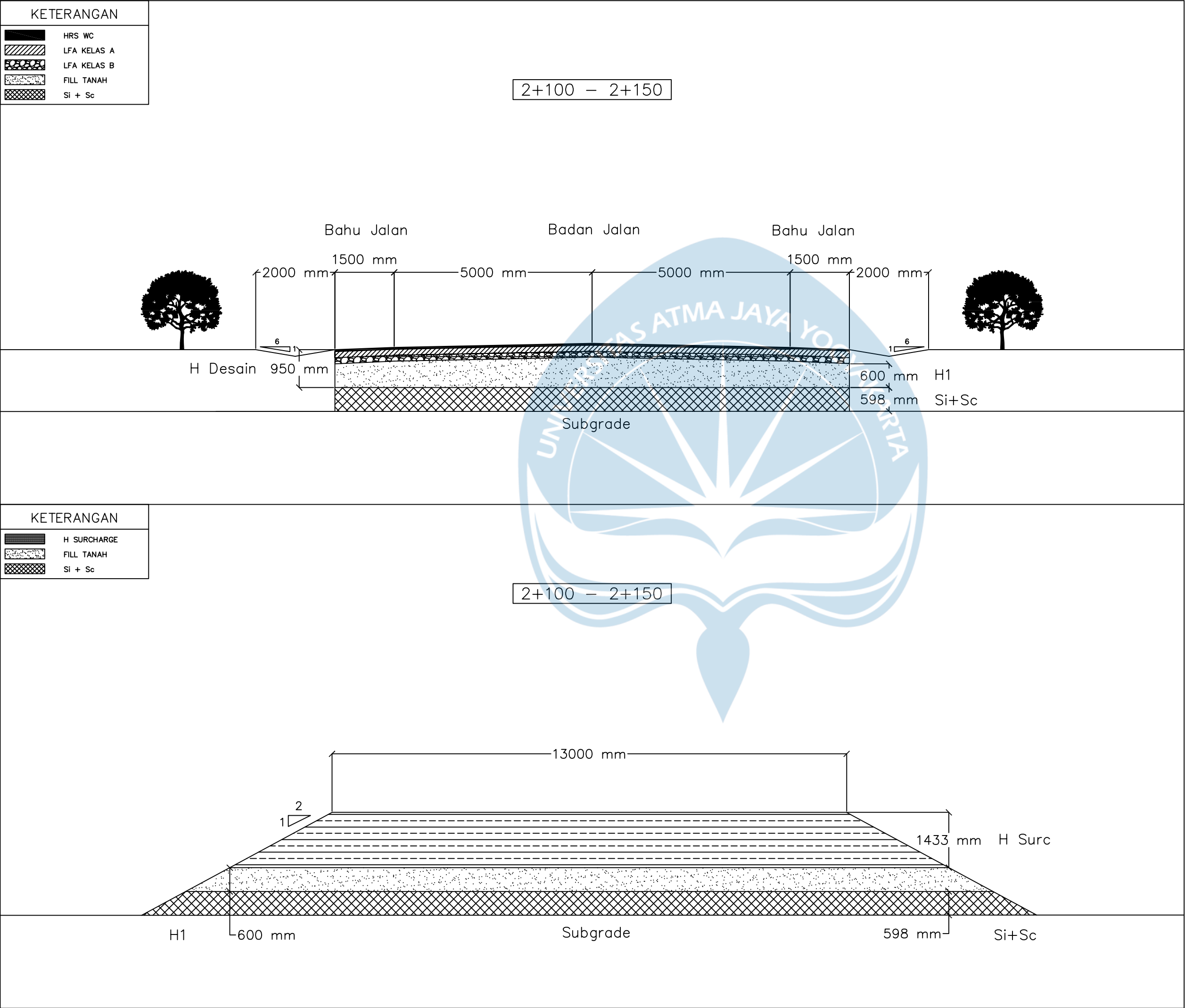
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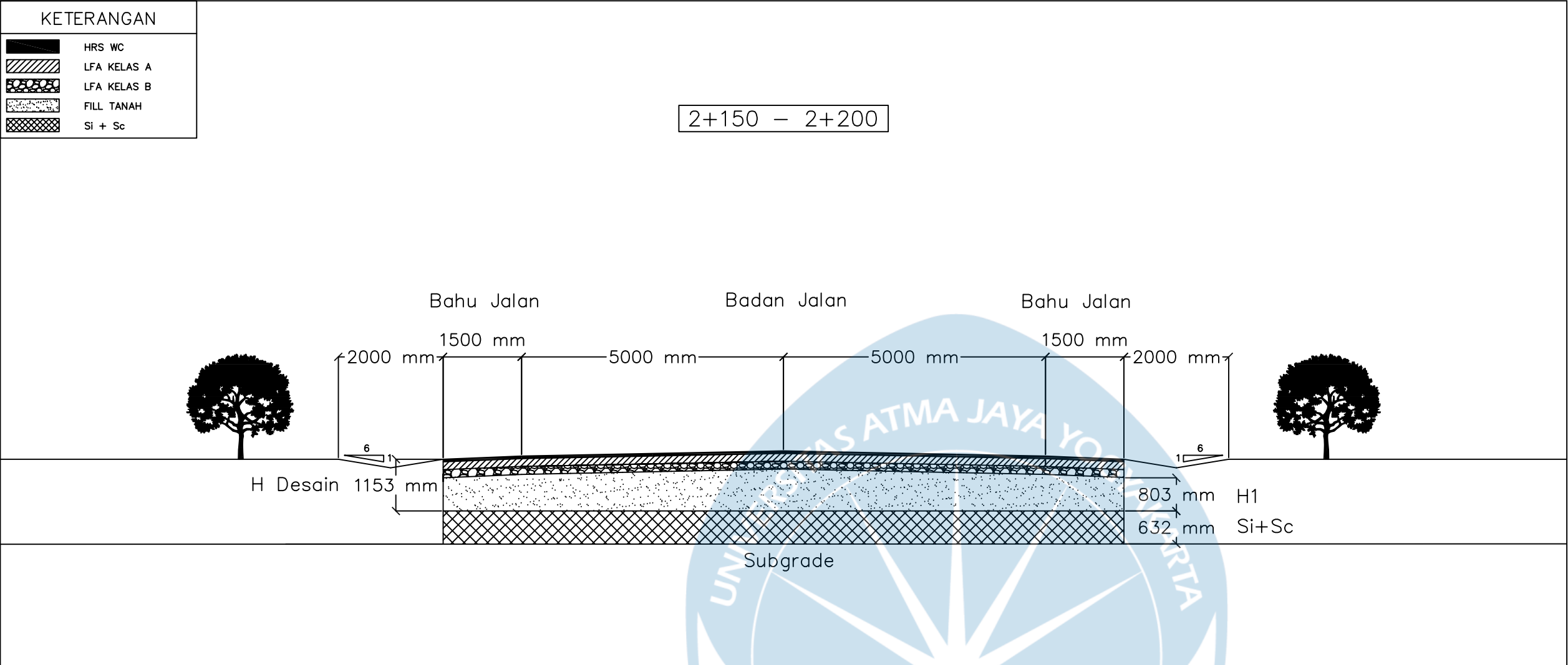
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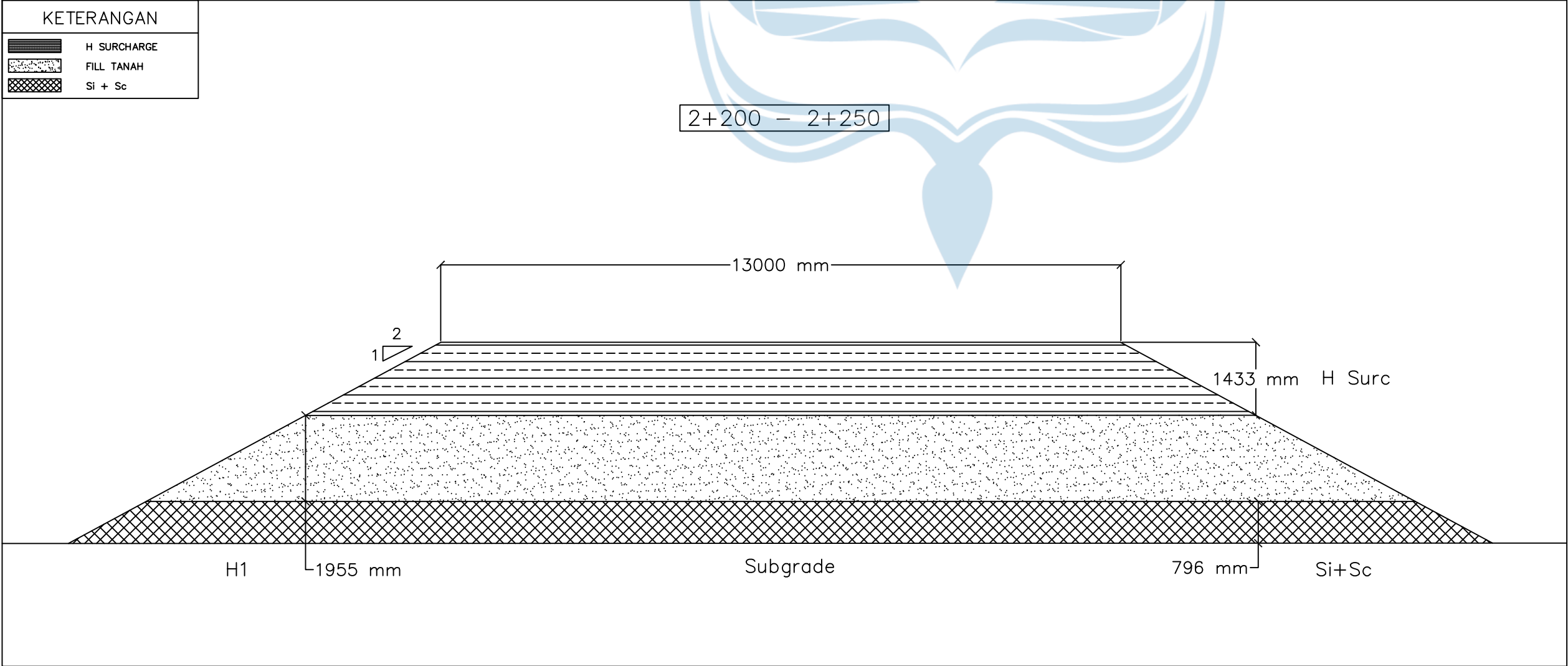
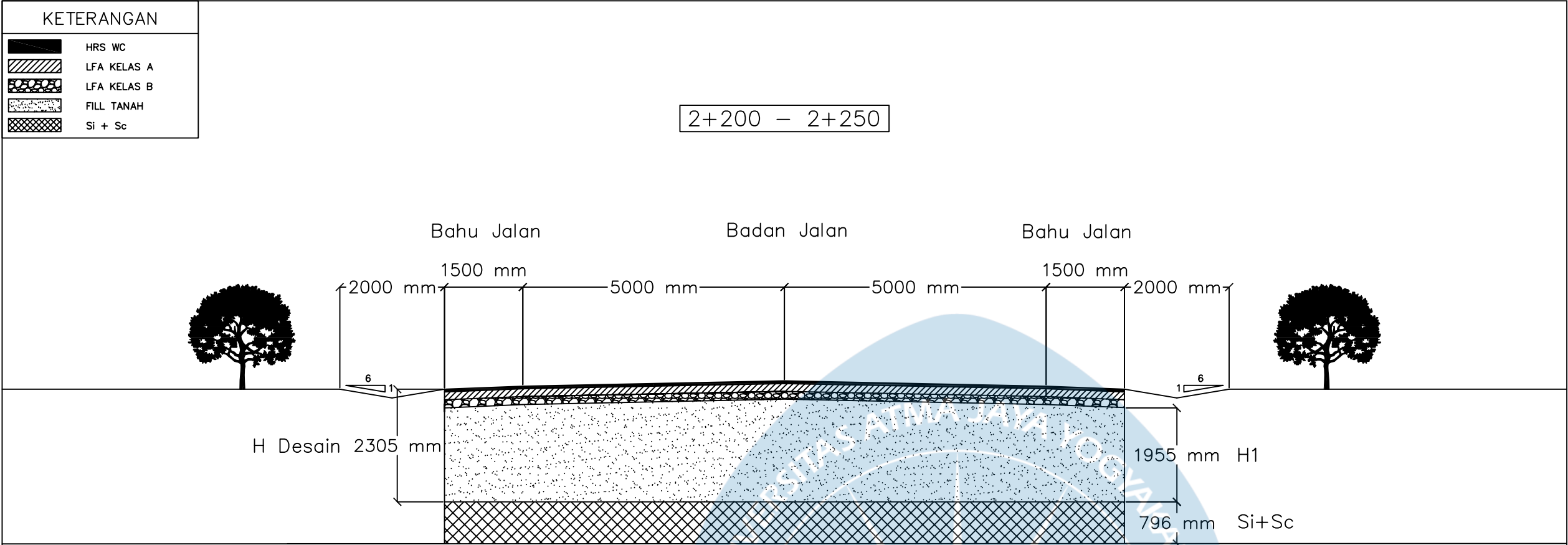












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GAMBAR KERJA

Penurunan Tanah
Segmen 5

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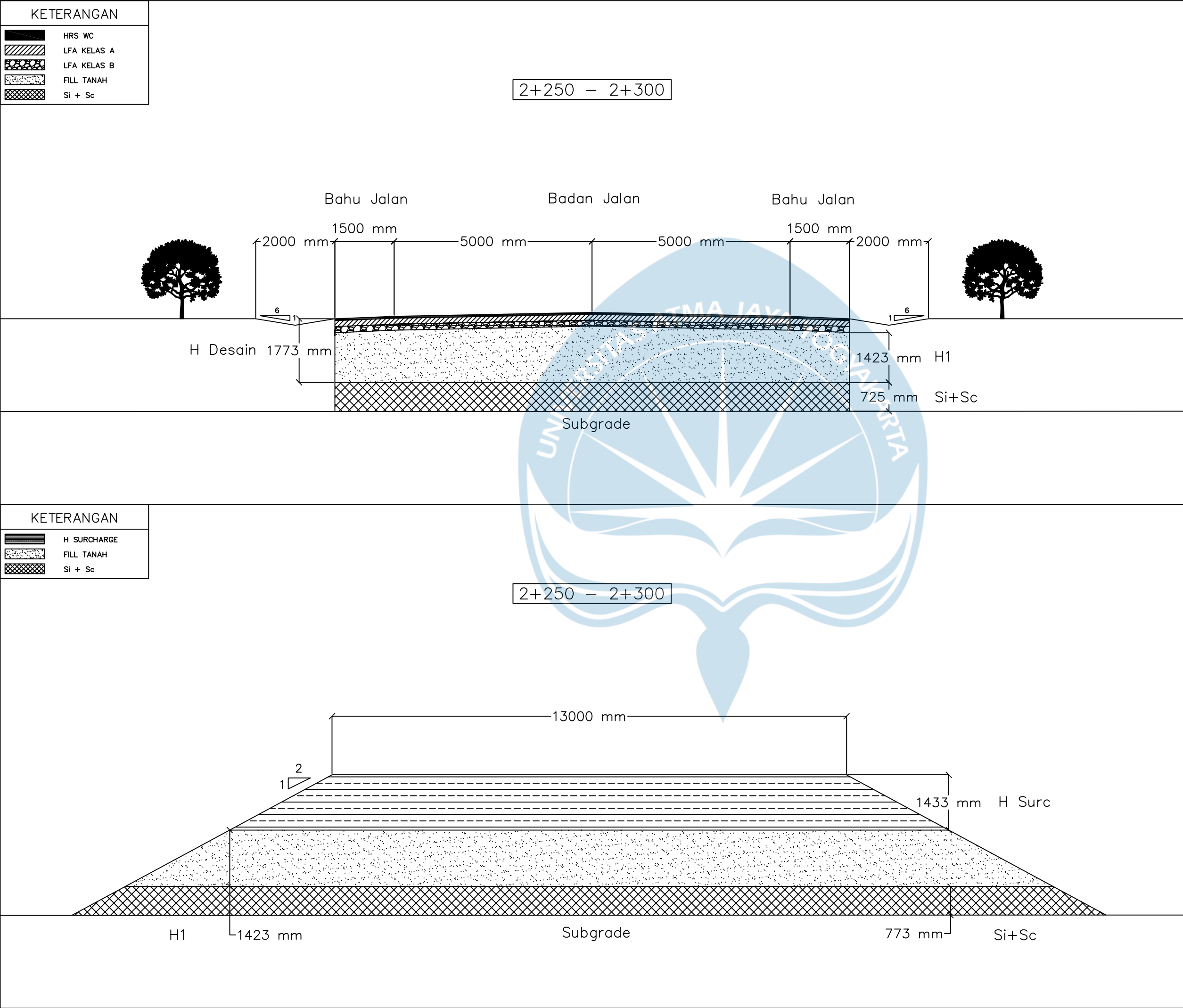
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SKALA

1 : 90



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INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

Penurunan Tanah
Segmen 5

DIGAMBAR & DISUSUN OLEH:

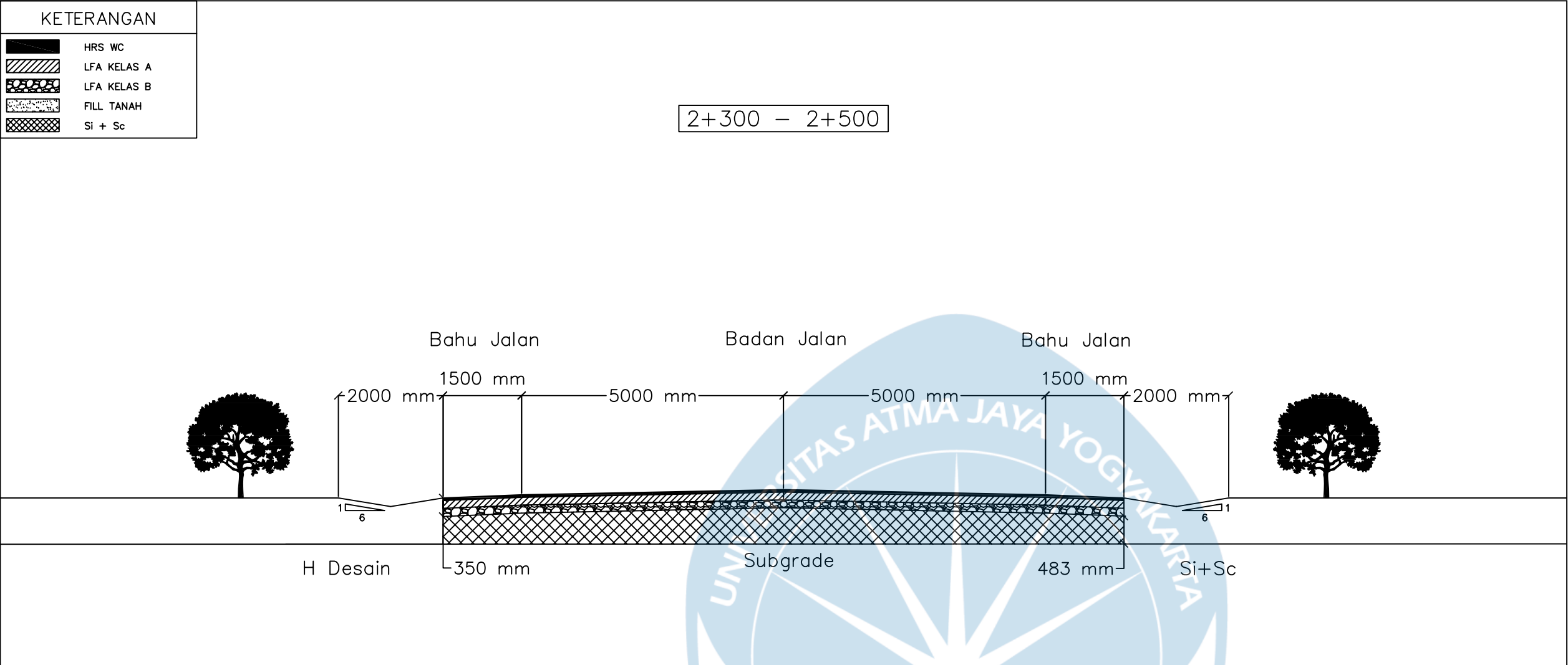
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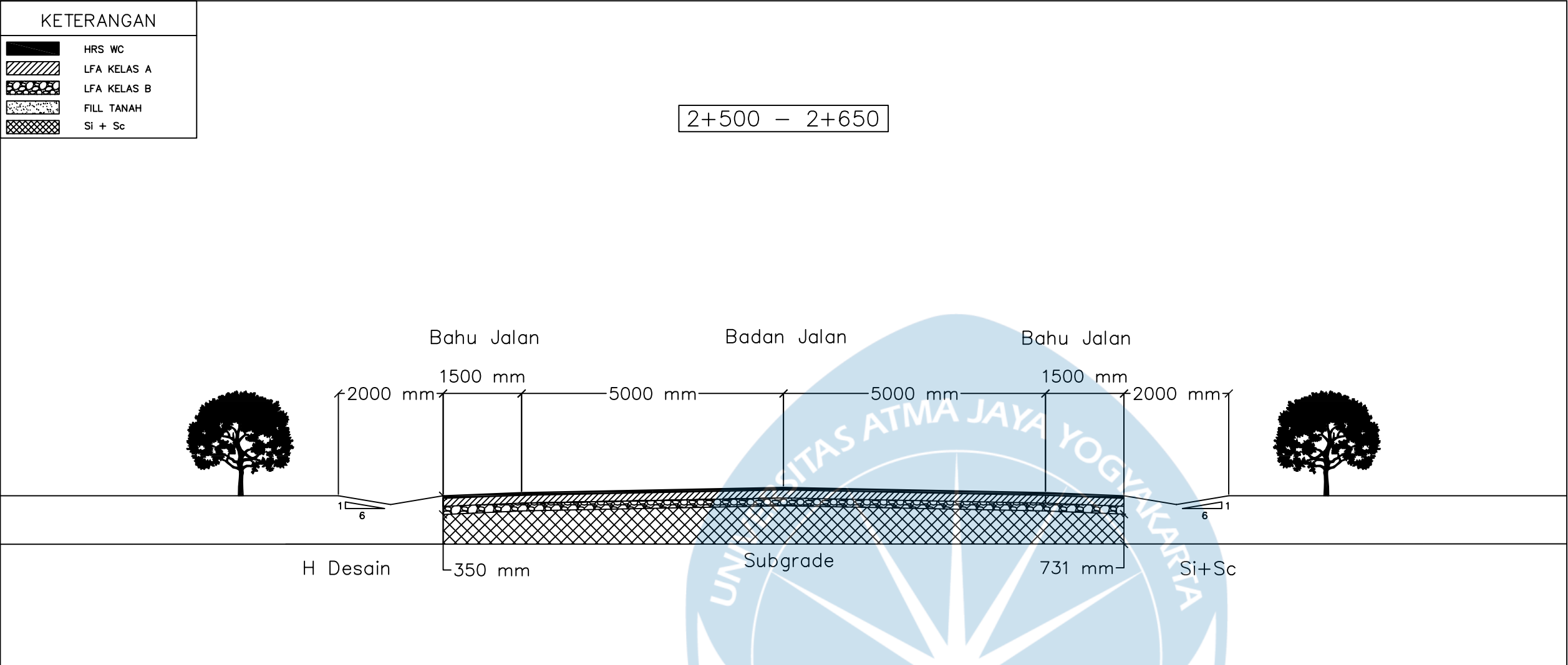
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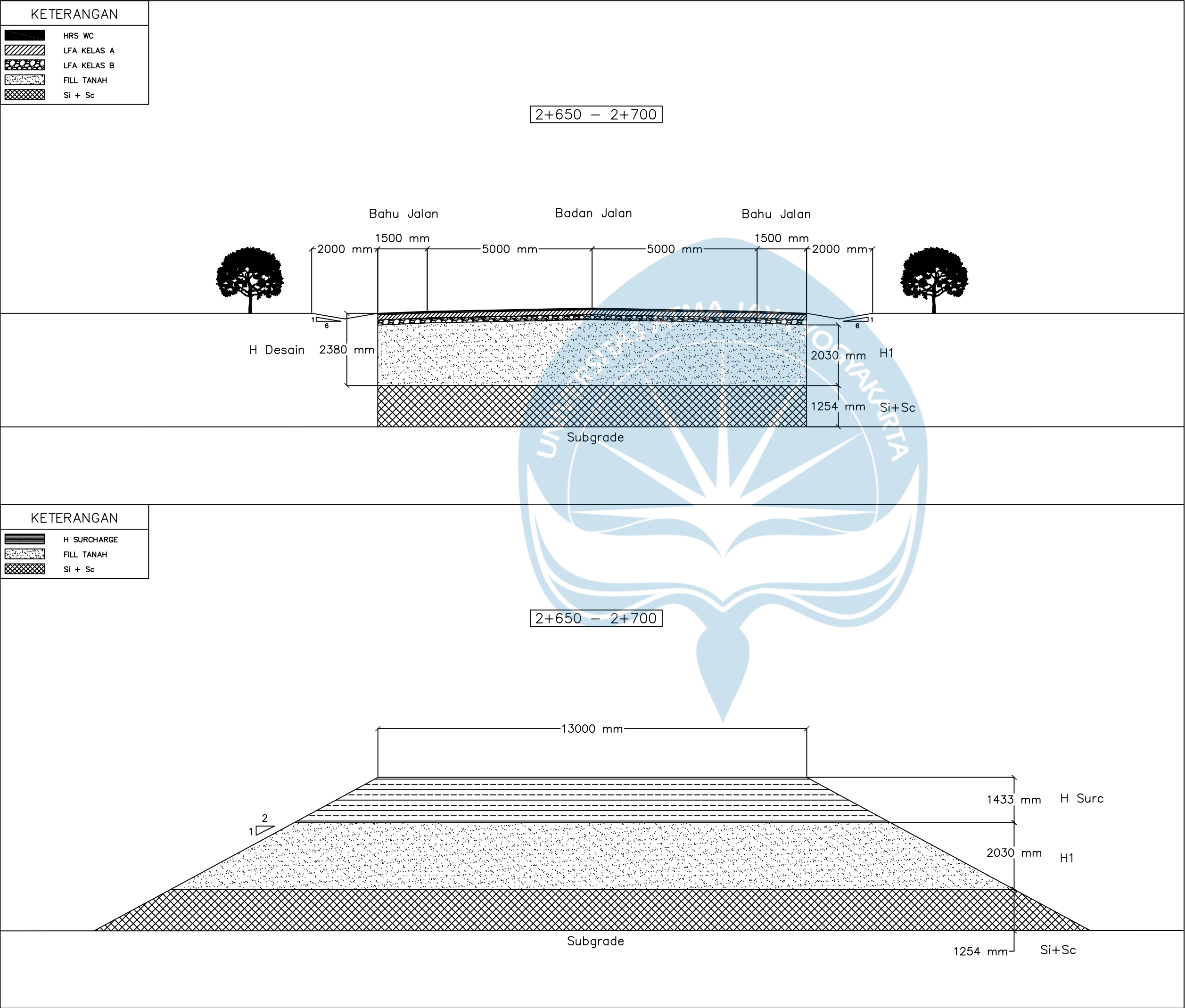
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1 : 90









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SEMESTER GENAP
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GAMBAR KERJA

Penurunan Tanah
Segmen 6

DIGAMBAR & DISUSUN OLEH:

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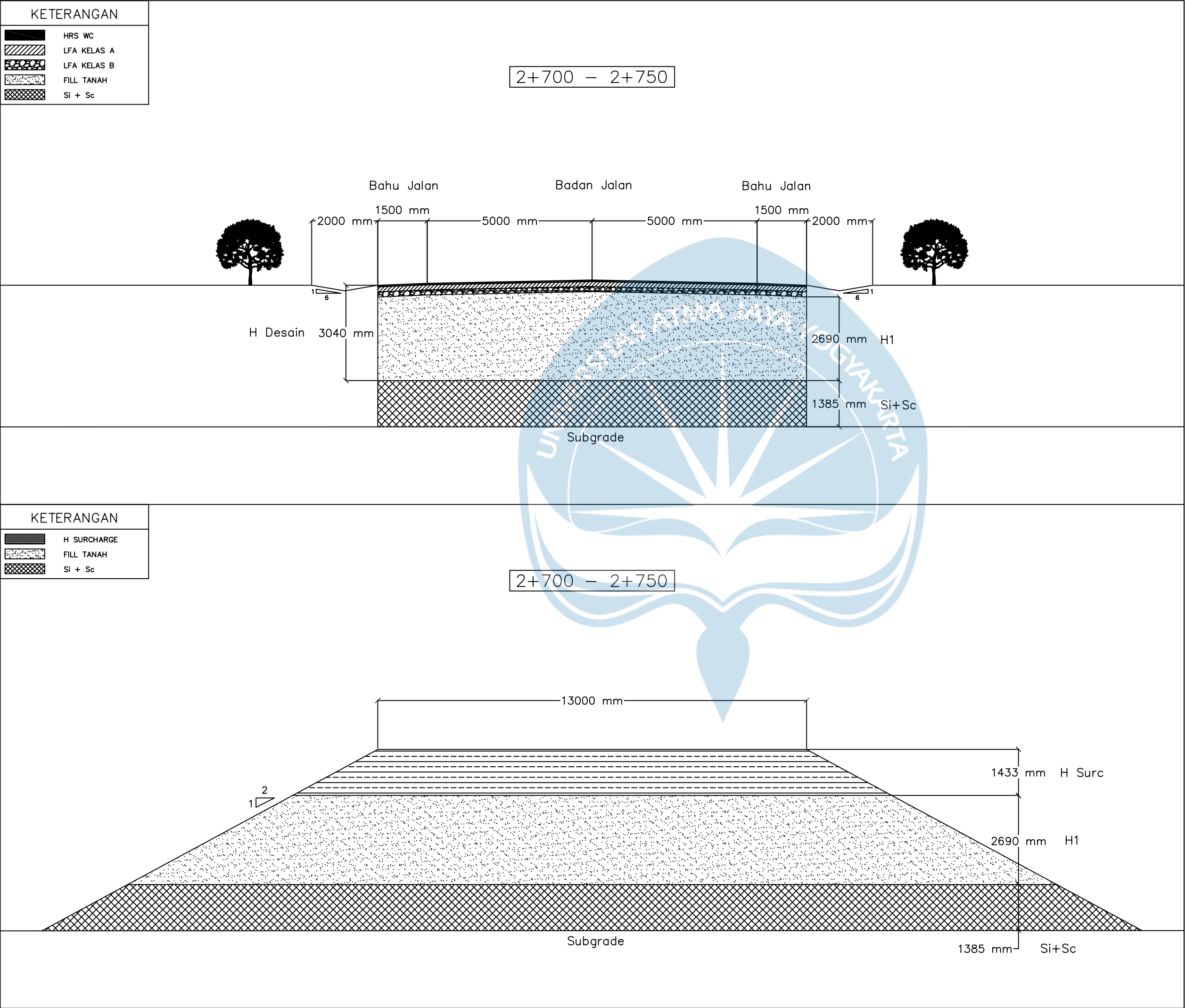
JUAN CAHYO PATABANG (210218862)

DISETUJUI

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1 : 108



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SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR KERJA

Penurunan Tanah
Segmen 6

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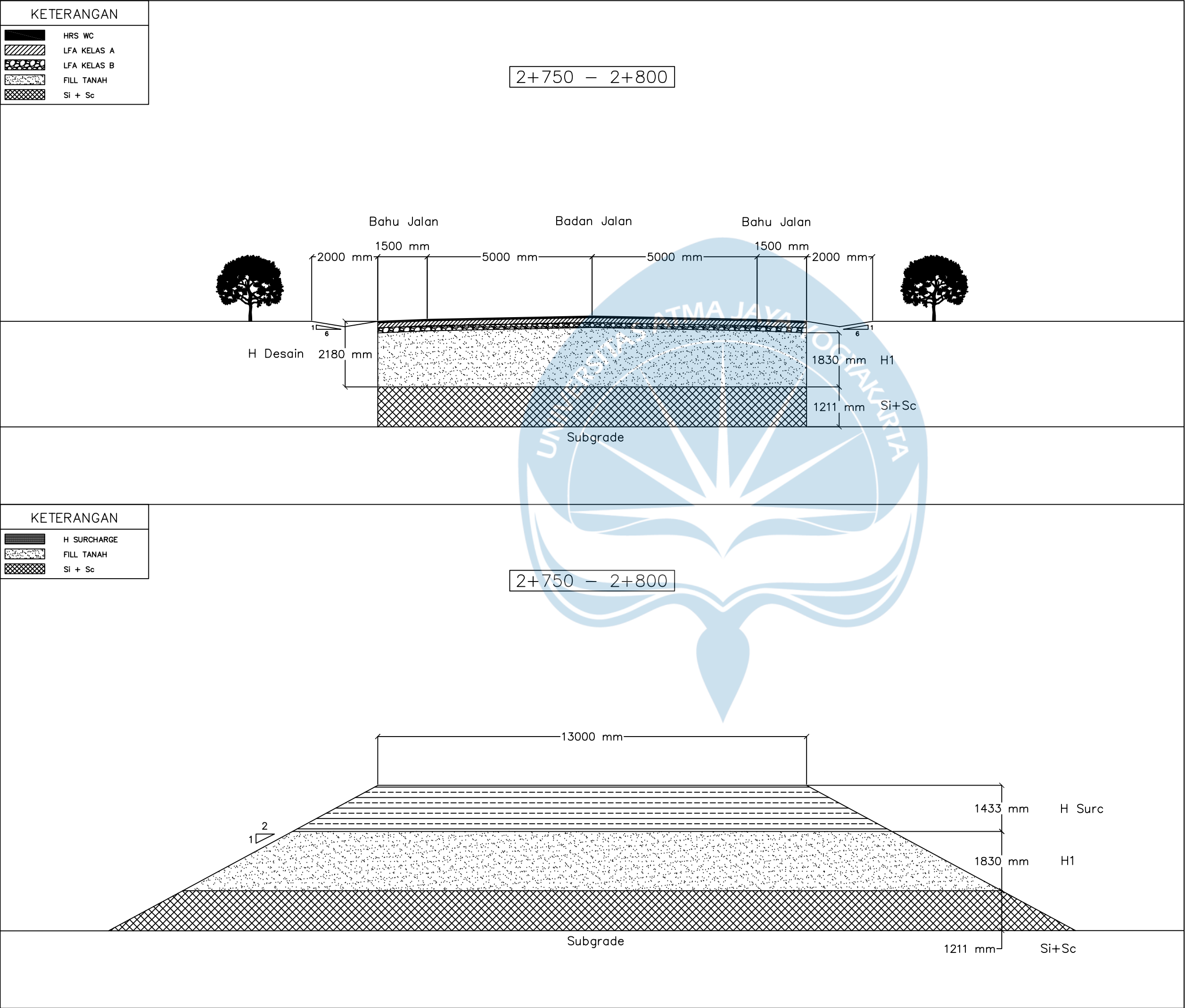
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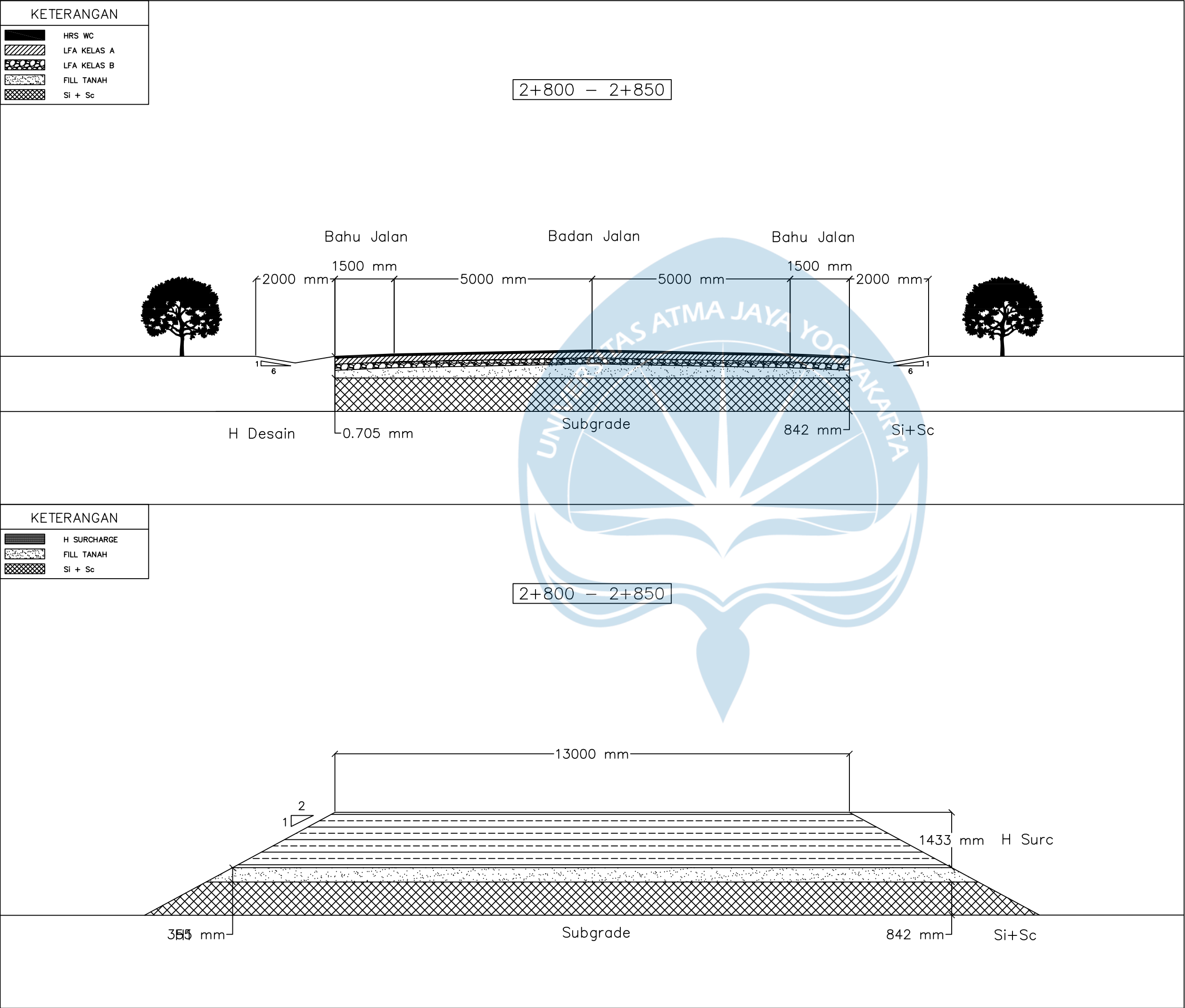
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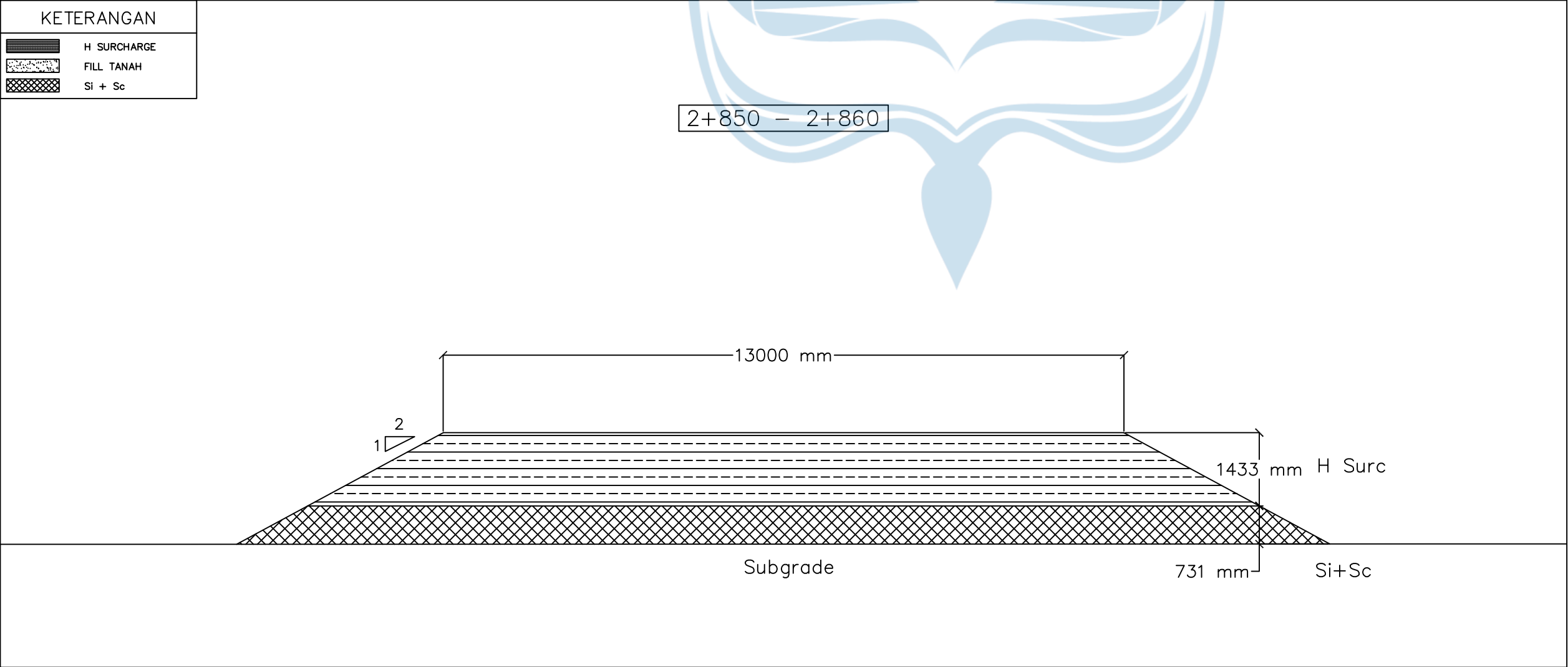
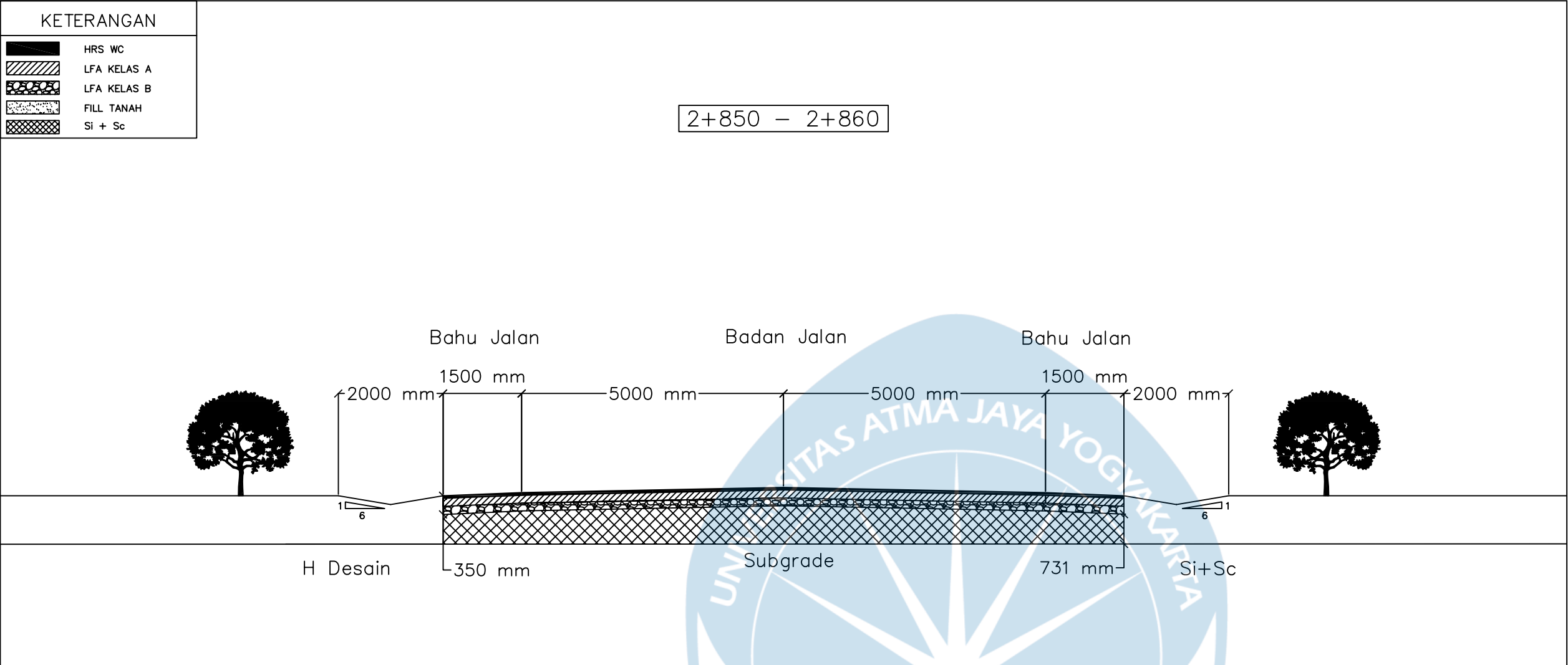
Ir. William Wijaya, S.T., M.Eng.

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1 : 108







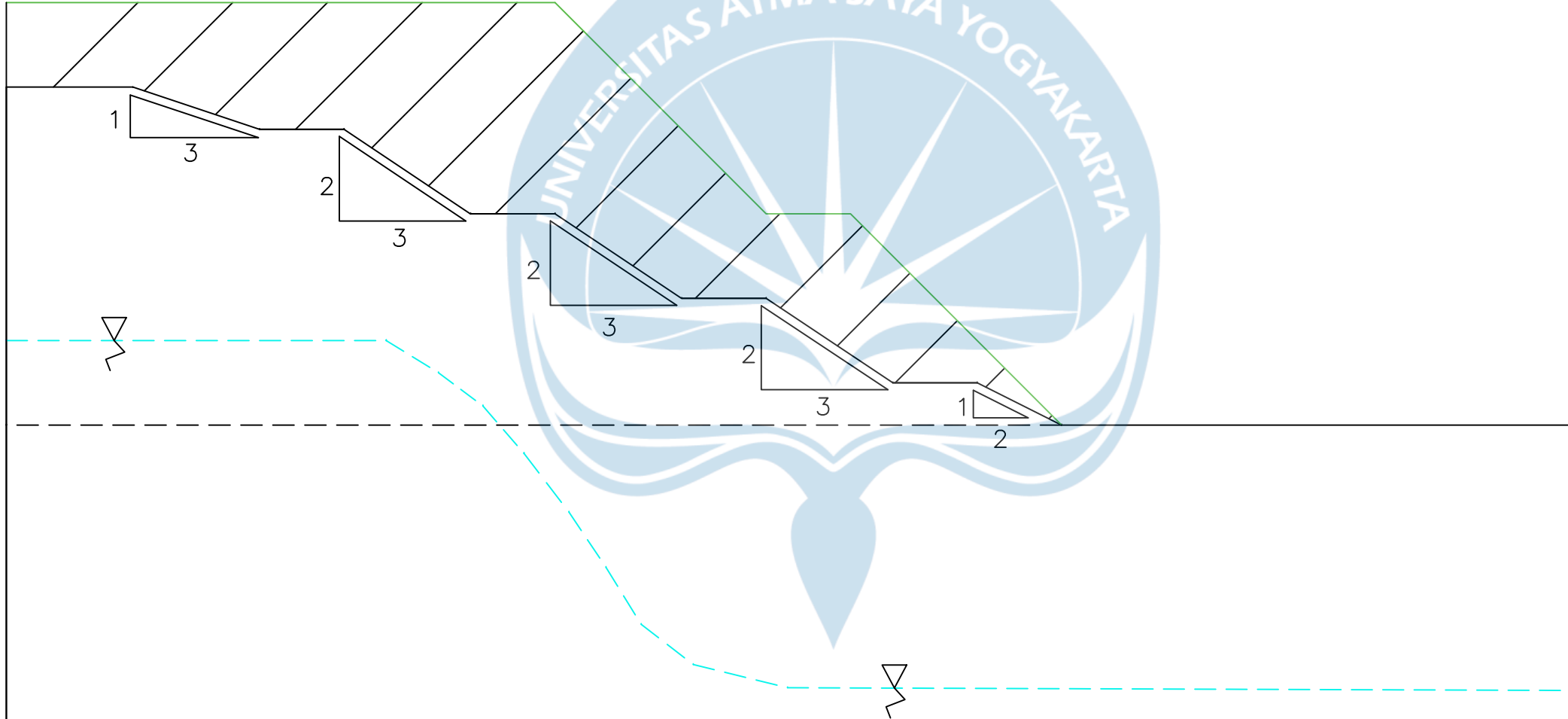
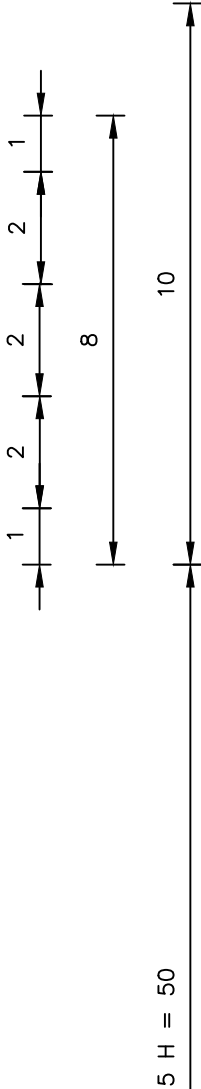
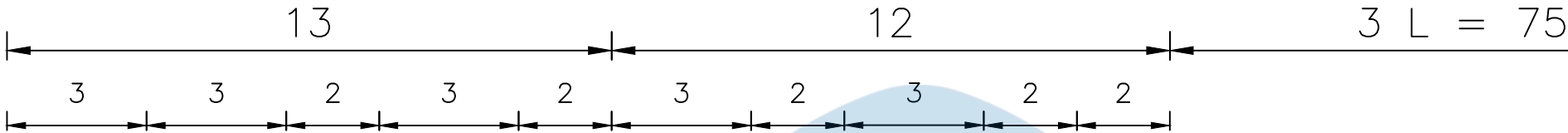
Keterangan

Permukaan Lereng Eksisting

Permukaan Lereng Re-Contouring

Luasan

Cut 74.5129 m²



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR

Re-Contouring Lereng
STA 0 + 450

DIGAMBAR

Kelompok 2:
Gabiell Vitorian Christallo (2102185720)
Juan Cahyo Patabang (210218805)

DISETUJUI

Ir. William Wijaya, S.T., M.Eng.

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Keterangan

Permukaan Lereng Eksisting

Permukaan Lereng Re-Contouring

Luasan

Cut 81.3316 m²

Fill 17.8369 m²



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INFRASTRUKTUR
SEMESTER GENAP
TAHUN AJARAN 2024/2025

GAMBAR

Re-Contouring Lereng
STA 1 + 000

DIGAMBAR

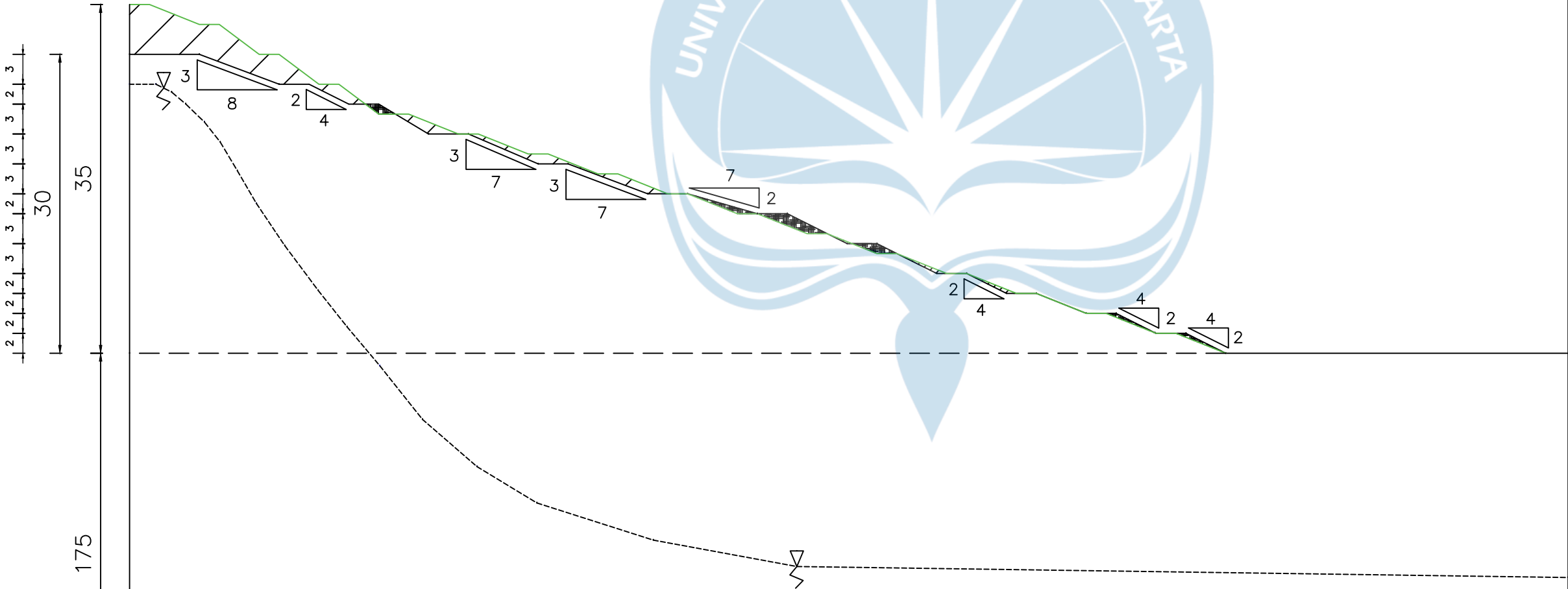
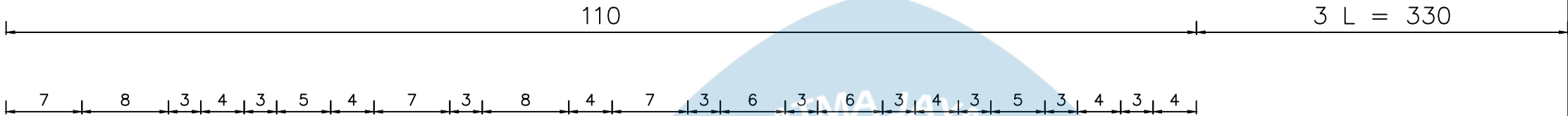
Kelompok 2:
Gabiël Vitorian Christallo (2102185720)
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