





Lampiran A. Data SPT (*Standard Penetration Test*) Titik Pertama



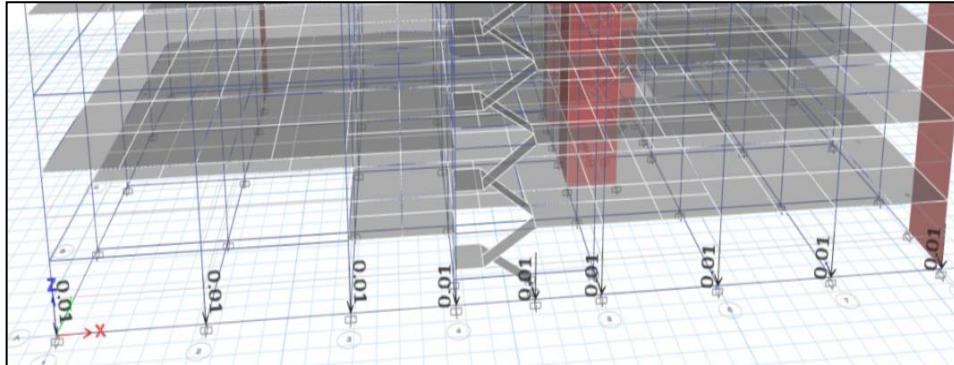


Lampiran A. Data SPT (*Standard Penetration Test*) Titik Kedua





Lampiran B. Hasil *Output* Momen ETABS



Lampiran B.1 Permodelan Struktur Dengan *Differential Settlement* (1 cm)

Story	Beam	Unique Name	Output Case	Case Type	Step Type	V2 kN	T kN-m	M3 kN-m	Element	Ele
Lantai 3	B57	1178	ENVE	Combination	Min	103.337	-7.1818	-605.1552	1178-8	
Lantai 5	B57	1176	ENVE	Combination	Min	103.2744	-7.1648	-604.2576	1176-8	
Lantai 4	B57	1177	ENVE	Combination	Min	100.6245	-8.7289	-599.6298	1177-8	
Lantai 6	B57	1175	ENVE	Combination	Min	106.7868	-7.638	-594.035	1175-8	
Lantai 3	B50	1186	ENVE	Combination	Min	103.2465	-4.7814	-583.9024	1186-8	
Rooftop	B57	1174	ENVE	Combination	Min	110.0145	-5.4086	-581.3992	1174-8	
Lantai 4	B50	1185	ENVE	Combination	Min	101.5067	-4.855	-576.7322	1185-8	
Lantai 5	B50	1184	ENVE	Combination	Min	106.0647	-5.6673	-575.7277	1184-8	
Lantai 6	B50	1183	ENVE	Combination	Min	110.6472	-4.3878	-558.8263	1183-8	
Lantai 2	B57	1179	ENVE	Combination	Min	109.8119	-6.6822	-555.7039	1179-8	
Lantai 2	B50	1187	ENVE	Combination	Min	106.9442	-5.0631	-547.1479	1187-8	
Rooftop	B50	1182	ENVE	Combination	Min	115.5075	-4.6459	-546.3415	1182-8	
Lantai 4	B57	1177	ENVE	Combination	Min	-317.1044	-13.0199	-536.1415	1177-1	
Lantai 5	B57	1176	ENVE	Combination	Min	-313.6439	-8.2277	-525.3782	1176-1	
Lantai 3	B57	1178	ENVE	Combination	Min	-314.5424	-14.0269	-521.4643	1178-1	

Lampiran B.2 *Output* Distribusi Momen Balok B2i (1 cm)



ET Element Forces - Beams

File Edit Format-Filter-Sort Select Options

Units: As Noted Hidden Columns: No Sort: M3 DESC Element Forces - Beams

Filter: None

Story	Beam	Unique Name	Output Case	Case Type	Step Type	Station m	V2 kN	T kN-m	M3 kN-m
GF	B149	380	ENVE	Combination	Max	0.45	2016.4248	78.6244	1508.8025
GF	B153	314	ENVE	Combination	Max	0.45	1920.5394	-15.4782	1482.0573
Lantai 2	B153	337	ENVE	Combination	Max	0.45	1422.01	-2.6554	1118.4566
Lantai 2	B149	387	ENVE	Combination	Max	0.45	1412.5574	51.4948	1096.4361
Lantai 2	B168	476	ENVE	Combination	Max	3.25	277.9731	80.7531	868.9406
Lantai 3	B168	475	ENVE	Combination	Max	3.25	296.7018	82.0103	862.9584
GF	B149	380	ENVE	Combination	Max	0.7813	2024.1016	78.6244	846.1918
GF	B153	314	ENVE	Combination	Max	0.7813	1928.2162	-15.4782	844.6072
Lantai 3	B153	336	ENVE	Combination	Max	0.425	1010.3602	2.8823	814.8288
Lantai 3	B149	386	ENVE	Combination	Max	0.425	950.9789	60.8397	767.4569
Lantai 4	B168	296	ENVE	Combination	Max	3.25	179.3496	96.3481	766.5201
GF	B149	380	ENVE	Combination	Min	0.45	1041.6758	30.2002	756.3692
GF	B153	314	ENVE	Combination	Min	0.45	1007.4202	-64.1254	755.1491
Lantai 3	B23	231	ENVE	Combination	Max	3.5	338.2905	10.2375	727.0592
Lantai 2	B23	232	ENVE	Combination	Max	3.5	312.914	8.9679	698.4934

Record: 1 of 6350

Lampiran B.3 Output Distribusi Momen Balok B3i (1 cm)

ET Element Forces - Beams

File Edit Format-Filter-Sort Select Options

Units: As Noted Hidden Columns: No Sort: M3 DESC Element Forces - Beams

Filter: None

Story	Beam	Unique Name	Output Case	Case Type	Step Type	V2 kN	T kN-m	M3 kN-m	Element
Lantai 3	B161	465	ENVE	Combination	Max	694.5584	223.9954	1190.9671	465-3
Lantai 2	B161	466	ENVE	Combination	Max	643.0484	223.4114	1149.0047	466-3
GF	B29	291	ENVE	Combination	Max	567.5991	329.0365	1120.8453	291-1
Lantai 4	B161	464	ENVE	Combination	Max	642.6733	220.6799	1082.1238	464-3
Lantai 3	B86	370	ENVE	Combination	Max	546.6796	-16.5528	1025.1255	370-3
Lantai 2	B86	371	ENVE	Combination	Max	525.5225	-21.0285	1002.5224	371-3
Lantai 3	B29	288	ENVE	Combination	Max	499.7407	389.6054	961.468	288-1
Lantai 2	B29	289	ENVE	Combination	Max	511.7649	389.2513	958.3287	289-1
Lantai 3	B161	465	ENVE	Combination	Max	685.5128	223.9954	936.5471	465-3
Lantai 4	B86	369	ENVE	Combination	Max	507.7229	-17.8177	919.9341	369-3
Lantai 2	B161	466	ENVE	Combination	Max	634.0029	223.4114	912.8817	466-3
Lantai 5	B161	455	ENVE	Combination	Max	543.4984	220.2613	895.7365	455-3
GF	B29	291	ENVE	Combination	Max	578.5237	329.0365	882.0697	291-1
Lantai 4	B29	287	ENVE	Combination	Max	447.5935	402.5023	865.2305	287-1
Lantai 4	B161	464	ENVE	Combination	Max	633.6277	220.6799	854.1102	464-3

Record: 1 of 442

Lampiran B.4 Output Distribusi Momen Balok B4 (1 cm)



	Story	Column	Unique Name	Output Case	Case Type	Step Type	P kN	V2 kN	M2 kN-m	M3 kN-m
▶	Lantai 2	C16	121	ENVE	Combination	Max	2718.3333	113.0997	1365.5506	348.26
	Lantai 2	C21	161	ENVE	Combination	Max	2096.8031	133.2979	1268.2647	396.915
	GF	C16	128	ENVE	Combination	Max	4997.7317	-133.1739	1082.9581	108.176
	GF	C4	32	ENVE	Combination	Max	-2474.633	9.9805	882.6987	267.948
	GF	C5	40	ENVE	Combination	Max	-969.6914	58.3789	871.141	359.23
	GF	C2	16	ENVE	Combination	Max	-2836.2179	-14.3993	862.417	219.157
	GF	C3	24	ENVE	Combination	Max	-2527.3451	-23.3075	862.3281	215.64
	Lantai 2	C36	281	ENVE	Combination	Max	-2313.5242	287.7173	833.6331	660.592
	GF	C1	8	ENVE	Combination	Max	-931.4788	12.5613	813.847	258.551
	GF	C9	72	ENVE	Combination	Max	-3102.2156	116.5796	801.5398	390.179
	GF	C8	64	ENVE	Combination	Max	-4530.2164	68.5765	663.4125	314.167
	GF	C21	168	ENVE	Combination	Max	3768.685	-8.236	627.9392	219.29
	Lantai 2	C9	65	ENVE	Combination	Max	-2738.6807	89.2937	624.2305	238.48
	Lantai 2	C27	209	ENVE	Combination	Max	-3974.5324	114.6281	562.632	334.074
	Lantai 2	C35	273	ENVE	Combination	Max	-1913.8795	58.1735	534.8026	169.087

Lampiran B.5 *Output* Distribusi Momen Kolom KS1 (1 cm)

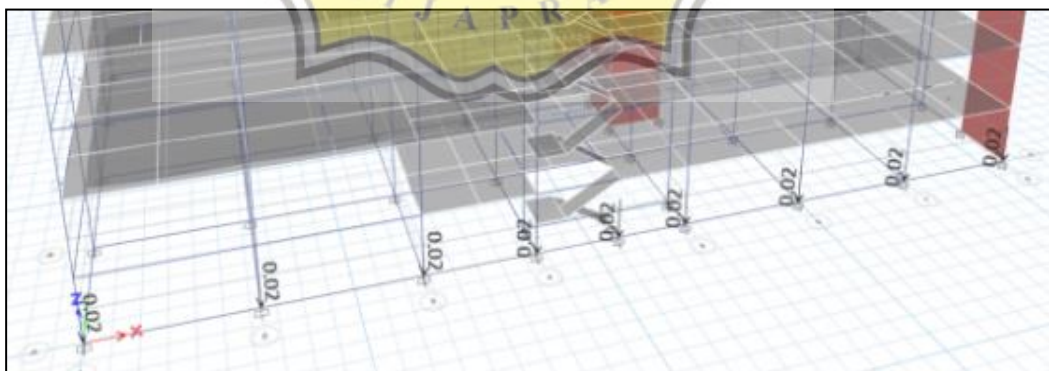
	Story	Column	Unique Name	Output Case	Case Type	Step Type	P kN	M2 kN-m	M3 kN-m	Element
▶	Lantai 3	C16	127	ENVE	Combination	Max	1331.4171	711.5418	207.7968	127-1
	Lantai 3	C21	167	ENVE	Combination	Max	1117.9909	665.5471	253.4166	167
	Lantai 4	C22	174	ENVE	Combination	Max	-1894.4481	545.1948	269.6173	174
	Lantai 4	C16	126	ENVE	Combination	Max	492.1981	506.743	155.4682	126-1
	Lantai 3	C2	15	ENVE	Combination	Max	-2000.8958	504.3013	-6.7512	15
	Lantai 3	C22	175	ENVE	Combination	Max	-2205.1185	503.1221	286.2992	175
	Lantai 4	C21	166	ENVE	Combination	Max	461.2803	499.05	239.068	166
	Lantai 4	C36	183	ENVE	Combination	Max	-1664.8014	457.5288	468.3553	183
	Lantai 3	C36	184	ENVE	Combination	Max	-1998.0149	402.976	481.9832	184
	Lantai 3	C7	55	ENVE	Combination	Max	-3198.5346	399.4741	186.432	55
	Lantai 3	C4	31	ENVE	Combination	Max	-1668.7417	394.8201	26.0172	31
	Lantai 4	C27	214	ENVE	Combination	Max	-2694.9441	386.4264	211.9514	214
	Lantai 3	C9	71	ENVE	Combination	Max	-2331.2544	376.9119	220.6418	71
	Lantai 4	C28	222	ENVE	Combination	Max	-595.7541	370.8913	232.069	222-1
	Lantai 4	C2	14	ENVE	Combination	Max	-1796.4057	370.0958	27.1887	14

Lampiran B.6 *Output* Distribusi Momen Kolom KS2 (1 cm)



Story	Column	Unique Name	Output Case	Case Type	Step Type	P kN	M2 kN-m	M3 kN-m	Element
Lantai 3	C41	298	ENVE	Combination	Min	-3486.3425	-733.8927	-44.9376	298
Lantai 4	C41	290	ENVE	Combination	Min	-2639.1272	-676.6261	-39.4984	290
Lantai 5	C41	282	ENVE	Combination	Min	-1873.1665	-594.7852	-29.995	282
Lantai 2	C41	306	ENVE	Combination	Min	-4348.0509	-552.5763	-38.2258	306
Lantai 3	C23	346	ENVE	Combination	Min	-3097.489	-506.0352	-86.4568	346-1
Lantai 6	C41	274	ENVE	Combination	Min	-1225.8736	-488.9296	-18.447	274
Lantai 4	C23	345	ENVE	Combination	Min	-2405.8555	-460.4106	-75.5244	345-1
GF	C29	186	ENVE	Combination	Min	-10214.1373	-457.5514	-74.5766	186
GF	C24	379	ENVE	Combination	Min	-10501.8584	-455.0911	33.0364	379-2
Lantai 2	C29	194	ENVE	Combination	Min	-7442.7456	-446.4581	-130.0002	194
Lantai 2	C24	372	ENVE	Combination	Min	-7318.4914	-425.7945	8.606	372-2
Lantai 5	C23	344	ENVE	Combination	Min	-1781.9025	-414.6754	-63.62	344-1
Rooflop	C41	242	ENVE	Combination	Min	-712.6605	-378.9095	-3.6763	242
Lantai 3	C29	192	ENVE	Combination	Min	-5397.4482	-361.134	-156.1902	192
Lantai 2	C23	340	ENVE	Combination	Min	-3810.47	-356.3932	-81.7167	340-1

Lampiran B.7 Output Distribusi Momen Kolom KT (1 cm)



Lampiran B.8 Permodelan Struktur Dengan *Differential Settlement* (2 cm)



Story	Beam	Unique Name	Output Case	Case Type	Step Type	Station m	T kN-m	M3 kN-m	Element
Lantai 3	B57	1178	ENVE	Combination	Min	8.5	-4.2145	-618.4969	1178-8
Lantai 5	B57	1176	ENVE	Combination	Min	8.5	-4.4612	-617.8647	1176-8
Lantai 4	B57	1177	ENVE	Combination	Min	8.5	-5.341	-612.8608	1177-8
Lantai 6	B57	1175	ENVE	Combination	Min	8.5	-4.5846	-607.8095	1175-8
Rooftop	B57	1174	ENVE	Combination	Min	8.5	-3.1701	-594.4108	1174-8
Lantai 3	B50	1186	ENVE	Combination	Min	8.5	-2.4709	-592.6805	1186-8
Lantai 4	B50	1185	ENVE	Combination	Min	8.5	-2.5473	-584.7911	1185-8
Lantai 5	B50	1184	ENVE	Combination	Min	8.5	-3.4952	-582.7023	1184-8
Lantai 2	B57	1179	ENVE	Combination	Min	8.5	-3.5491	-566.9754	1179-8
Lantai 6	B50	1183	ENVE	Combination	Min	8.5	-2.2488	-565.016	1183-8
Lantai 2	B50	1187	ENVE	Combination	Min	8.5	-2.4416	-555.7905	1187-8
Rooftop	B50	1182	ENVE	Combination	Min	8.5	-2.8212	-552.4616	1182-8
Lantai 2	B80	407	ENVE	Combination	Min	8.2	24.0633	-532.465	407-11
Lantai 4	B57	1177	ENVE	Combination	Min	0.425	-15.0312	-526.4619	1177-1
Lantai 3	B80	406	ENVE	Combination	Min	8.2	13.5138	-520.6893	406-11

Lampiran B.9 *Output* Distribusi Momen Balok B2i (2 cm)

Story	Beam	Unique Name	Output Case	Case Type	Step Type	Station m	V2 kN	T kN-m	M3 kN-m
GF	B149	380	ENVE	Combination	Max	0.45	4054.2063	110.6201	3046.3044
GF	B153	314	ENVE	Combination	Max	0.45	3871.3502	-28.5946	3004.5667
Lantai 2	B153	337	ENVE	Combination	Max	0.45	2778.1096	-13.6654	2139.7975
Lantai 2	B149	387	ENVE	Combination	Max	0.45	2682.2543	61.6449	2038.3513
GF	B149	380	ENVE	Combination	Min	0.45	2351.6782	54.197	1744.7633
GF	B153	314	ENVE	Combination	Min	0.45	2261.5128	-81.6139	1733.9052
GF	B153	314	ENVE	Combination	Max	0.7813	3879.0269	-28.5946	1720.9105
GF	B149	380	ENVE	Combination	Max	0.7813	4061.883	110.6201	1702.0771
Lantai 3	B153	336	ENVE	Combination	Max	0.425	1881.0609	-4.3621	1499.5454
Lantai 3	B149	386	ENVE	Combination	Max	0.425	1742.8107	72.5908	1386.663
Lantai 2	B153	337	ENVE	Combination	Max	0.7813	2785.7864	-13.6654	1218.2772
Lantai 2	B149	387	ENVE	Combination	Max	0.7813	2689.9311	61.6449	1148.5831
Lantai 2	B153	337	ENVE	Combination	Min	0.45	1492.3365	-75.9744	1120.0779
Lantai 4	B153	335	ENVE	Combination	Max	0.425	1331.5269	-3.3593	1079.9409

Lampiran B.10 *Output* Distribusi Momen Balok B3i (2 cm)





	Story	Beam	Unique Name	Output Case	Case Type	Step Type	Station m	V2 kN	T kN-m	M3 kN-m	Elr
▶	GF	B29	291	ENVE	Combination	Max	0	906.6669	365.1522	1763.4318	2
	Lantai 3	B161	465	ENVE	Combination	Max	2.58	552.5474	233.0809	1454.0137	4
	Lantai 2	B161	466	ENVE	Combination	Max	2.58	506.5579	234.0428	1410.569	4
	GF	B29	291	ENVE	Combination	Max	0.4167	917.5915	365.1522	1383.3779	2
	Lantai 4	B161	464	ENVE	Combination	Max	2.58	506.9823	228.4872	1327.2499	4
	Lantai 3	B29	288	ENVE	Combination	Max	0	688.9196	448.0165	1301.1525	2
	Lantai 2	B29	289	ENVE	Combination	Max	0	706.0116	453.396	1280.0019	2
	Lantai 3	B86	370	ENVE	Combination	Max	2.58	417.1522	-15.5155	1268.6243	3
	Lantai 2	B86	371	ENVE	Combination	Max	2.58	394.8488	-19.3188	1254.6879	3
	Lantai 4	B29	287	ENVE	Combination	Max	0	611.7041	471.7019	1153.8758	2
	GF	B86	364	ENVE	Combination	Max	2.58	142.9535	-31.9834	1139.1714	3
	Lantai 3	B161	465	ENVE	Combination	Max	2.235	545.7633	233.0809	1138.5651	4
	Lantai 4	B86	369	ENVE	Combination	Max	2.58	395.6338	-17.2907	1129.1574	3
	Lantai 5	B161	455	ENVE	Combination	Max	2.58	414.5541	227.6416	1119.4937	4

Lampiran B.11 *Output* Distribusi Momen Balok B4 (2 cm)

	Story	Column	Unique Name	Output Case	Case Type	Step Type	P kN	V2 kN	T kN-m	M2 kN-m
▶	Lantai 2	C16	121	ENVE	Combination	Max	7483.7288	113.8861	23.8025	2410.9785
	Lantai 2	C21	161	ENVE	Combination	Max	6392.7073	117.3307	13.5683	2315.9767
	GF	C16	128	ENVE	Combination	Max	12503.4538	-322.5993	45.8908	1694.7068
	Lantai 2	C36	281	ENVE	Combination	Max	-3087.5401	322.4402	13.5683	1280.8252
	Lantai 2	C21	161	ENVE	Combination	Min	2877.7629	-137.9726	-26.6676	1179.5455
	GF	C2	16	ENVE	Combination	Max	-3239.233	-65.3911	-10.677	1117.0502
	Lantai 2	C16	121	ENVE	Combination	Min	3392.7606	-179.0676	-8.1661	1106.7674
	GF	C4	32	ENVE	Combination	Max	-2497.8143	34.4435	-10.677	1078.6466
	GF	C5	40	ENVE	Combination	Max	-855.312	132.9739	-10.677	1062.0699
	GF	C3	24	ENVE	Combination	Max	-2520.1082	-37.2234	-10.677	1056.842
	GF	C1	8	ENVE	Combination	Max	-620.081	-39.6181	0.4293	1031.9942
	GF	C9	72	ENVE	Combination	Max	-3317.2834	153.8631	-10.677	869.5386
	GF	C21	168	ENVE	Combination	Max	10213.7679	-143.6949	-10.677	856.4148
	Lantai 2	C32	249	ENVE	Combination	Max	-4929.8537	146.7928	13.5683	749.6509

Lampiran B.12 *Output* Distribusi Momen Kolom KS1 (2 cm)

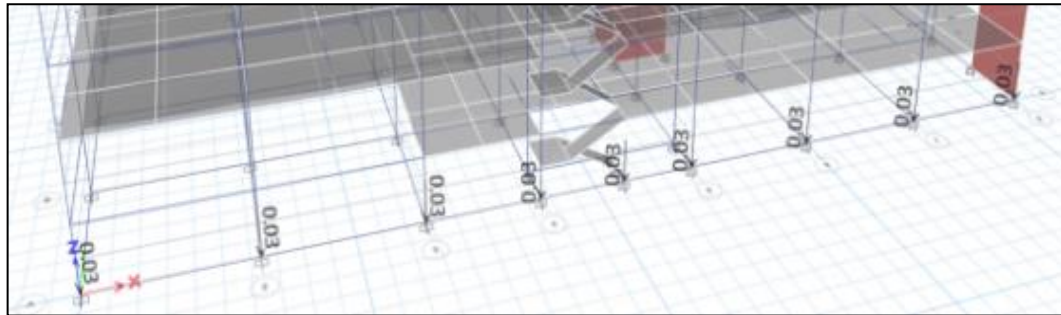


	Story	Column	Unique Name	Output Case	Case Type	Step Type	P kN	V2 kN	T kN-m	M2 kN-m
▶	Lantai 3	C16	127	ENVE	Combination	Max	4382.5913	90.6107	24.2599	1214.1736
	Lantai 3	C21	167	ENVE	Combination	Max	3911.9531	105.9299	14.7261	1194.3553
	Lantai 4	C21	166	ENVE	Combination	Max	2270.8489	136.7226	14.799	942.0452
	Lantai 4	C16	126	ENVE	Combination	Max	2386.485	133.786	13.7361	919.2013
	Lantai 4	C36	183	ENVE	Combination	Max	-2126.0694	340.0563	14.799	616.1924
	Lantai 3	C2	15	ENVE	Combination	Max	-2281.581	-8.6296	14.8829	569.4586
	Lantai 3	C21	167	ENVE	Combination	Min	1549.0841	-231.9196	-21.6519	506.4053
	Lantai 4	C22	174	ENVE	Combination	Max	-2383.471	182.4973	14.799	505.422
	Lantai 3	C36	184	ENVE	Combination	Max	-2614.7962	307.1427	14.7261	458.9937
	Lantai 4	C27	214	ENVE	Combination	Max	-2976.9308	143.0757	14.799	455.9883
	Lantai 3	C7	55	ENVE	Combination	Max	-3433.9671	53.1623	14.7625	455.1517
	Lantai 4	C2	14	ENVE	Combination	Max	-2019.9767	-15.9833	14.6421	434.0939
	Lantai 3	C16	127	ENVE	Combination	Min	1734.6536	-270.2706	-7.5091	422.7834
	Lantai 4	C21	166	ENVE	Combination	Min	840.4317	-192.1494	-19.3047	421.4086

Lampiran B.13 *Output* Distribusi Momen Kolom KS2 (2 cm)

	Story	Column	Unique Name	Output Case	Case Type	Step Type	P kN	V2 kN	T kN-m	M2 kN-m	M3 kN-m
▶	Lantai 2	C29	194	ENVE	Combination	Max	-7493.5109	134.4224	2.6802	1292.0474	28
	Lantai 2	C24	372	ENVE	Combination	Max	-7641.9435	-75.232	-2.2761	1186.498	-6
	Lantai 3	C29	192	ENVE	Combination	Max	-5359.3286	159.7581	3.6561	1007.8032	25
	Lantai 3	C24	378	ENVE	Combination	Max	-5228.6169	-49.7057	3.6526	963.8841	-3
	Lantai 4	C29	191	ENVE	Combination	Max	-3858.1048	152.1264	3.6742	743.583	23
	Lantai 4	C24	377	ENVE	Combination	Max	-3843.3417	-30.9039	2.698	712.7457	-5
	Lantai 2	C29	194	ENVE	Combination	Min	-12363.4...	14.2384	-5.2677	620.8664	2
	GF	C29	186	ENVE	Combination	Max	-10516.9...	49.4357	-2.109	605.6067	7
	Lantai 3	C41	298	ENVE	Combination	Max	284.9221	93.5726	3.6561	598.5261	1
	Lantai 5	C29	190	ENVE	Combination	Max	-2629.2054	136.5953	2.6354	571.6865	20
	Lantai 4	C41	290	ENVE	Combination	Max	-21.4164	85.2166	3.6742	564.9143	11
	Lantai 2	C24	372	ENVE	Combination	Min	-13093.1...	-239.2112	-15.2589	559.1747	-35
	GF	C24	379	ENVE	Combination	Max	-10645.1...	211.64	22.2654	549.0056	30
	GF	C24	379	ENVE	Combination	Max	-11321.9...	-243.6916	-18.9612	543.3807	-19

Lampiran B.14 *Output* Distribusi Momen Kolom KT (2 cm)



Lampiran B.15 Permodelan Struktur Dengan *Differential Settlement* 3 cm

Story	Beam	Unique Name	Output Case	Case Type	Step Type	V2 kN	T kN-m	M3 kN-m	Element
Lantai 3	B57	1178	ENVE	Combination	Min	109.7874	-1.6568	-631.8387	1178-8
Lantai 5	B57	1176	ENVE	Combination	Min	109.8936	-1.9368	-631.4718	1176-8
Lantai 4	B57	1177	ENVE	Combination	Min	106.8006	-2.736	-626.0918	1177-8
Lantai 6	B57	1175	ENVE	Combination	Min	113.2217	-2.1092	-621.5839	1175-8
Lantai 2	B80	407	ENVE	Combination	Min	171.7295	33.04	-610.2274	407-11
Rooftop	B57	1174	ENVE	Combination	Min	115.994	-0.9316	-607.4223	1174-8
Lantai 3	B50	1186	ENVE	Combination	Min	108.8866	-0.1604	-601.4586	1186-8
Lantai 4	B50	1185	ENVE	Combination	Min	106.7096	-0.2395	-592.8499	1185-8
Lantai 5	B50	1184	ENVE	Combination	Min	110.6442	-1.3231	-589.677	1184-8
Lantai 2	B57	1179	ENVE	Combination	Min	115.4375	-0.7094	-578.2469	1179-8
GF	B80	400	ENVE	Combination	Min	216.4391	87.0487	-577.3993	400-11
Lantai 3	B80	406	ENVE	Combination	Min	132.2468	15.6985	-576.7893	406-11
Lantai 6	B50	1183	ENVE	Combination	Min	114.7714	-0.1097	-571.2057	1183-8
Lantai 2	B50	1187	ENVE	Combination	Min	112.5931	0.18	-564.4331	1187-8

Lampiran B.16 *Output* Distribusi Momen Balok B2i (3 cm)



	Story	Beam	Unique Name	Output Case	Case Type	Step Type	Station m	V2 kN	T kN-m	M3 kN-m
▶	GF	B149	380	ENVE	Combination	Max	0.45	6091.9878	145.3374	4583.8064
	GF	B153	314	ENVE	Combination	Max	0.45	5822.1609	-41.7109	4527.076
	Lantai 2	B153	337	ENVE	Combination	Max	0.45	4224.6086	-24.6754	3259.0365
	Lantai 2	B149	387	ENVE	Combination	Max	0.45	4067.7284	71.7949	3097.2159
	GF	B149	380	ENVE	Combination	Min	0.45	3661.6805	78.1939	2733.1574
	GF	B153	314	ENVE	Combination	Min	0.45	3515.6054	-99.1024	2712.6612
	GF	B153	314	ENVE	Combination	Max	0.7813	5829.8376	-41.7109	2597.2138
	GF	B149	380	ENVE	Combination	Max	0.7813	6099.6645	145.3374	2564.564
	Lantai 3	B153	336	ENVE	Combination	Max	0.425	2890.9724	-11.6065	2267.0817
	Lantai 3	B149	386	ENVE	Combination	Max	0.425	2628.011	84.3419	2053.8551
	Lantai 2	B153	337	ENVE	Combination	Max	0.7813	4232.2854	-24.6754	1858.3634
	Lantai 2	B153	337	ENVE	Combination	Min	0.45	2422.2287	-90.6543	1839.5887
	Lantai 2	B149	387	ENVE	Combination	Max	0.7813	4075.4052	71.7949	1748.5094
	Lantai 2	B149	387	ENVE	Combination	Min	0.45	2305.9418	18.137	1725.6931

Lampiran B.17 *Output* Distribusi Momen Balok B3i (3 cm)

	Story	Beam	Unique Name	Output Case	Case Type	Step Type	V2 kN	T kN-m	M3 kN-m	Element
▶	GF	B29	291	ENVE	Combination	Max	1245.7347	401.2678	2406.0182	291-1
	GF	B29	291	ENVE	Combination	Max	1256.6593	401.2678	1884.6861	291-1
	Lantai 3	B161	465	ENVE	Combination	Max	419.8765	242.1664	1717.0603	465-3
	Lantai 2	B161	466	ENVE	Combination	Max	378.9817	244.6743	1672.1333	466-3
	Lantai 3	B29	288	ENVE	Combination	Max	878.0984	506.4277	1640.837	288-1
	Lantai 2	B29	289	ENVE	Combination	Max	900.2583	517.5407	1601.6751	289-1
	Lantai 4	B161	464	ENVE	Combination	Max	383.7683	236.2945	1572.3761	464-3
	Lantai 3	B86	370	ENVE	Combination	Max	287.6247	-14.4782	1512.1232	370-3
	Lantai 2	B86	371	ENVE	Combination	Max	264.1751	-17.6091	1506.8535	371-3
	GF	B86	364	ENVE	Combination	Max	-28.8636	-29.3464	1458.0014	364-3
	Lantai 4	B29	287	ENVE	Combination	Max	775.8146	540.9016	1442.5211	287-1
	GF	B29	291	ENVE	Combination	Max	1267.5839	401.2678	1358.8021	291-1
	Lantai 5	B161	455	ENVE	Combination	Max	302.0677	235.0218	1343.2508	455-3
	Lantai 3	B161	465	ENVE	Combination	Max	413.0923	242.1664	1340.5831	465-3

Lampiran B.18 *Output* Distribusi Momen Balok B4 (3 cm)



Story	Column	Unique Name	Output Case	Case Type	Step Type	P kN	V2 kN	T kN-m	M2 kN-m
Lantai 2	C16	121	ENVE	Combination	Max	12990.2939	114.6724	28.4613	3572.1703
Lantai 2	C21	161	ENVE	Combination	Max	11416.4085	104.3708	11.1003	3503.3905
GF	C16	128	ENVE	Combination	Max	20798.0203	-512.0248	61.8972	2306.4556
Lantai 2	C21	161	ENVE	Combination	Min	6112.3208	-155.2525	-29.9582	1942.883
Lantai 2	C16	121	ENVE	Combination	Min	6966.8073	-178.0192	-4.672	1890.8383
Lantai 2	C36	281	ENVE	Combination	Max	-3861.5561	357.1631	11.1003	1728.0173
GF	C2	16	ENVE	Combination	Max	-3642.2481	-116.383	-20.7075	1371.6835
GF	C4	32	ENVE	Combination	Max	-2520.9957	58.9065	-20.7075	1274.5946
GF	C5	40	ENVE	Combination	Max	-740.9325	211.5158	-20.7075	1252.9988
GF	C3	24	ENVE	Combination	Max	-2512.8712	-51.1393	-20.7075	1251.356
GF	C1	8	ENVE	Combination	Max	-308.6832	-91.7975	-5.25	1250.1413
GF	C21	168	ENVE	Combination	Max	17359.2513	-279.1539	-20.7075	1084.8904
Lantai 2	C32	249	ENVE	Combination	Max	-5323.7767	163.7269	11.1003	976.5214
GF	C9	72	ENVE	Combination	Max	-3532.3513	191.1465	-20.7075	937.5374

Lampiran B.19 *Output* Distribusi Momen Kolom KS1 (3 cm)

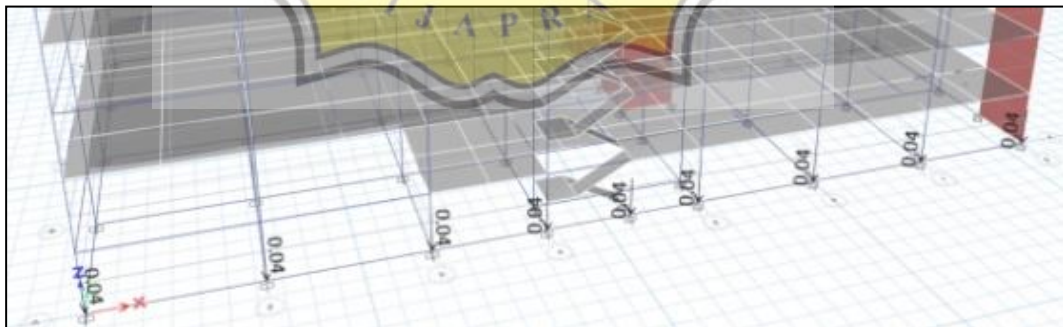
Story	Column	Unique Name	Output Case	Case Type	Step Type	P kN	V2 kN	T kN-m	M2 kN-m	h kN
Lantai 3	C21	167	ENVE	Combination	Max	7303.8544	68.0296	13.8687	1758.8618	1
Lantai 3	C16	127	ENVE	Combination	Max	7932.3953	74.2914	29.6006	1716.8054	1
Lantai 4	C21	166	ENVE	Combination	Max	4633.5241	114.2833	14.6497	1435.7077	
Lantai 4	C16	126	ENVE	Combination	Max	4803.9851	141.2316	15.0862	1340.8139	2
Lantai 3	C21	167	ENVE	Combination	Min	3790.2824	-282.4533	-22.7952	903.0115	-4
Lantai 3	C16	127	ENVE	Combination	Min	4112.228	-292.0297	-3.5036	799.7572	-3
Lantai 4	C36	183	ENVE	Combination	Max	-2587.3373	359.9592	14.6497	774.8559	5
Lantai 4	C21	166	ENVE	Combination	Min	2392.3237	-222.0684	-19.5038	753.6551	-
Lantai 4	C16	126	ENVE	Combination	Min	2491.5127	-181.7014	-13.7272	667.6237	-1
Lantai 3	C2	15	ENVE	Combination	Max	-2562.2662	-9.6877	14.2335	634.6159	-
Lantai 4	C27	214	ENVE	Combination	Max	-3258.9176	146.1029	14.6497	525.5502	2
Lantai 3	C36	184	ENVE	Combination	Max	-3231.5775	315.6122	13.8687	515.0114	5
Lantai 3	C7	55	ENVE	Combination	Max	-3669.3997	52.1492	14.2592	510.8294	1
Lantai 4	C2	14	ENVE	Combination	Max	-2243.5477	-16.8872	14.2848	498.0919	

Lampiran B.20 *Output* Distribusi Momen Kolom KS2 (3 cm)



Story	Column	Unique Name	Output Case	Case Type	Step Type	V2 kN	T kN-m	M2 kN-m	M3 kN-m
Lantai 2	C29	194	ENVE	Combination	Max	156.0365	2.1927	1987.4054	336.5717
Lantai 2	C24	372	ENVE	Combination	Max	-120.4875	-6.3118	1800.4968	-122.6476
Lantai 3	C29	192	ENVE	Combination	Max	172.5332	3.4432	1458.4752	274.0717
Lantai 3	C24	378	ENVE	Combination	Max	-82.332	1.2148	1378.6232	-74.0466
Lantai 4	C29	191	ENVE	Combination	Max	163.2534	3.6371	1078.6123	252.9186
Lantai 2	C29	194	ENVE	Combination	Min	30.449	-5.9177	1072.2483	59.0911
Lantai 4	C24	377	ENVE	Combination	Max	-51.6891	0.7418	1008.6187	-73.6379
Lantai 2	C24	372	ENVE	Combination	Min	-299.5519	-20.6399	963.7526	-421.3813
GF	C29	186	ENVE	Combination	Max	37.7295	-4.0904	862.7914	50.2417
Lantai 5	C29	190	ENVE	Combination	Max	142.8874	2.6143	843.6792	211.5748
GF	C24	379	ENVE	Combination	Max	314.335	31.7306	796.4863	425.7104
GF	C24	379	ENVE	Combination	Max	-360.4318	-29.0087	761.4191	-322.0578
Lantai 5	C24	376	ENVE	Combination	Max	-13.6629	1.6072	739.4693	-12.5889
Lantai 3	C41	298	ENVE	Combination	Max	106.4225	3.4432	706.0209	4.3503

Lampiran B.21 *Output* Distribusi Momen Kolom KT (3 cm)



Lampiran B.22 Permodelan Struktur Dengan *Differential Settlement* (4 cm)



	Story	Beam	Unique Name	Output Case	Case Type	Step Type	Station m	V2 kN	T kN-m	M3 kN-m
▶	GF	B80	400	ENVE	Combination	Max	4.6	305.3611	220.7841	707.0852
	Lantai 2	B80	407	ENVE	Combination	Max	4.6	272.9214	102.1193	560.0087
	GF	B80	400	ENVE	Combination	Max	5.0875	315.4542	220.7841	555.7615
	GF	B80	400	ENVE	Combination	Max	4.6	-148.9016	28.7153	555.7344
	GF	B80	400	ENVE	Combination	Max	4.4833	-150.4544	28.7153	524.1768
	GF	B80	400	ENVE	Combination	Max	4.4833	-154.9734	28.6614	523.1304
	GF	B80	400	ENVE	Combination	Max	4.25	-125.3417	-48.5236	504.8954
	Lantai 2	B80	407	ENVE	Combination	Max	4.6	-99.1601	26.2927	463.0205
	GF	B80	400	ENVE	Combination	Max	4.25	-158.079	28.6614	457.3397
	Lantai 3	B80	406	ENVE	Combination	Max	4.6	234.7613	55.4978	451.391
	Lantai 2	B80	407	ENVE	Combination	Max	4.4833	-100.7129	26.2927	440.001
	Lantai 2	B80	407	ENVE	Combination	Max	4.4833	-104.0916	26.2482	439.1776
	GF	B80	400	ENVE	Combination	Min	4.6	164.7897	132.7795	435.4986
	Lantai 2	B80	407	ENVE	Combination	Max	5.0875	281.5727	102.1193	433.1694

Lampiran B.23 *Output* Distribusi Momen Balok B2i (4 cm)

	Story	Beam	Unique Name	Output Case	Case Type	Step Type	Station m	V2 kN	T kN-m	M3 kN-m
▶	GF	B149	380	ENVE	Combination	Max	0.45	8129.7692	182.6658	6121.3083
	GF	B153	314	ENVE	Combination	Max	0.45	7772.9716	-54.8273	6049.5854
	Lantai 2	B153	337	ENVE	Combination	Max	0.45	5671.1076	-35.6854	4378.2755
	Lantai 2	B149	387	ENVE	Combination	Max	0.45	5453.2025	81.945	4156.0806
	GF	B149	380	ENVE	Combination	Min	0.45	4971.6829	102.1907	3721.5516
	GF	B153	314	ENVE	Combination	Min	0.45	4769.698	-116.5909	3691.4172
	GF	B153	314	ENVE	Combination	Max	0.7813	7780.6483	-54.8273	3473.5171
	GF	B149	380	ENVE	Combination	Max	0.7813	8137.446	182.6658	3427.0508
	Lantai 3	B153	336	ENVE	Combination	Max	0.425	3906.79	-18.8509	3065.9178
	Lantai 3	B149	386	ENVE	Combination	Max	0.425	3551.8148	96.093	2776.2622
	Lantai 2	B153	337	ENVE	Combination	Min	0.45	3352.1209	-105.3343	2559.0995
	Lantai 2	B153	337	ENVE	Combination	Max	0.7813	5678.7843	-35.6854	2498.4496
	Lantai 2	B149	387	ENVE	Combination	Min	0.45	3196.6037	25.7495	2406.3918
	Lantai 2	B149	387	ENVE	Combination	Max	0.7813	5460.8792	81.945	2348.4358
	Lantai 4	B153	335	ENVE	Combination	Max	0.425	2775.9707	-15.6937	2205.8324

Lampiran B.24 *Output* Distribusi Momen Balok B3i (4 cm)



ET Element Forces - Beams

File Edit Format-Filter-Sort Select Options

Units: As Noted Hidden Columns: No Sort: M3 DESC Element Forces - Beams

Filter: None

	Story	Beam	Unique Name	Output Case	Case Type	Step Type	V2 kN	T kN-m	M3 kN-m	Element
▶	GF	B29	291	ENVE	Combination	Max	1584.8025	437.3835	3061.577	291-1
	GF	B29	291	ENVE	Combination	Max	1595.7271	437.3835	2401.8933	291-1
	Lantai 3	B29	288	ENVE	Combination	Max	1067.2773	564.8389	1980.5215	288-1
	Lantai 3	B161	465	ENVE	Combination	Max	287.2056	251.2519	1980.1069	465-3
	Lantai 2	B161	466	ENVE	Combination	Max	251.4055	255.3058	1933.6976	466-3
	Lantai 2	B29	289	ENVE	Combination	Max	1094.505	581.6853	1923.3482	289-1
	Lantai 4	B161	464	ENVE	Combination	Max	260.5543	244.1018	1817.5023	464-3
	GF	B86	364	ENVE	Combination	Max	-200.6807	-26.7093	1776.8313	364-3
	Lantai 2	B86	371	ENVE	Combination	Max	133.5014	-15.8994	1759.019	371-3
	Lantai 3	B86	370	ENVE	Combination	Max	158.0972	-13.4409	1755.622	370-3
	GF	B29	291	ENVE	Combination	Max	1606.6518	437.3835	1736.8991	291-1
	Lantai 4	B29	287	ENVE	Combination	Max	939.9251	610.1013	1731.1664	287-1
	Lantai 5	B161	455	ENVE	Combination	Max	189.5814	242.402	1567.0079	455-3
	GF	B29	291	ENVE	Combination	Min	783.0986	178.6816	1551.2663	291-1
	Lantai 5	B29	286	ENVE	Combination	Max	827.1225	571.804	1550.0967	286-1

Record: 1 of 442

Lampiran B.25 Output Distribusi Momen Balok B4 (4 cm)

ET Element Forces - Columns

File Edit Format-Filter-Sort Select Options

Units: As Noted Hidden Columns: No Sort: M2 DESC Element Forces - Columns

Filter: None

	Story	Column	Unique Name	Output Case	Case Type	Step Type	V2 kN	T kN-m	M2 kN-m	M3 kN-m
▶	Lantai 2	C16	121	ENVE	Combination	Max	115.4588	33.12	4791.6361	614.329
	Lantai 2	C21	161	ENVE	Combination	Max	91.4109	8.6324	4690.8044	447.08
	GF	C16	128	ENVE	Combination	Max	-701.4502	77.9036	2918.2043	-743.449
	Lantai 2	C21	161	ENVE	Combination	Min	-172.5324	-33.2488	2706.2205	-275.104
	Lantai 2	C16	121	ENVE	Combination	Min	-176.9707	-1.1779	2674.9092	-134.733
	Lantai 2	C36	281	ENVE	Combination	Max	391.8859	8.6324	2175.2094	945.433
	GF	C2	16	ENVE	Combination	Max	-167.3748	-30.738	1826.3168	-114.18
	GF	C4	32	ENVE	Combination	Max	83.3694	-30.738	1470.5425	448.511
	GF	C1	8	ENVE	Combination	Max	-143.9769	-10.9293	1468.2884	-127.940
	GF	C3	24	ENVE	Combination	Max	-65.0551	-30.738	1445.87	122.608
	GF	C5	40	ENVE	Combination	Max	293.9771	-30.738	1443.9277	863.385
	GF	C21	168	ENVE	Combination	Max	-414.6129	-30.738	1313.3659	-515.444
	GF	C16	128	ENVE	Combination	Min	-1312.275	45.1893	1255.4976	-2106.087
	Lantai 2	C32	249	ENVE	Combination	Max	180.661	8.6324	1203.3919	553.884
	Lantai 2	C27	209	ENVE	Combination	Max	160.7179	8.6324	1061.4895	514.677

Record: 1 of 436

Lampiran B.26 Output Distribusi Momen Kolom KS1 (4 cm)



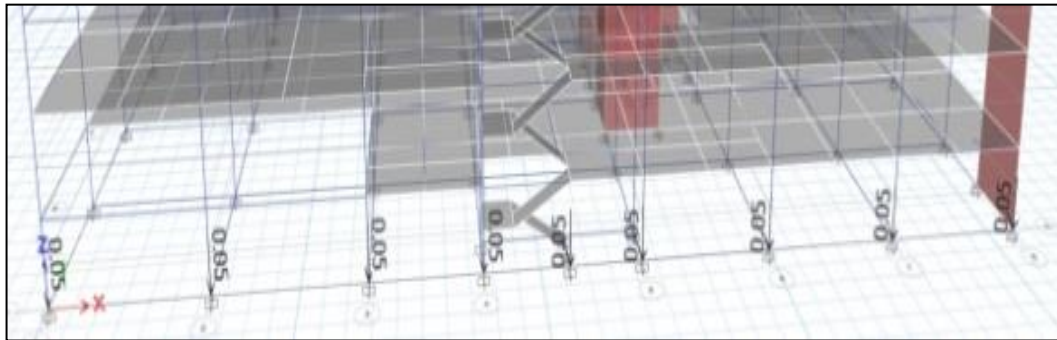


Story	Column	Unique Name	Output Case	Case Type	Step Type	P kN	V2 kN	T kN-m	M2 kN-m
Lantai 3	C21	167	ENVE	Combination	Max	10790.1629	30.1294	13.0112	2375.8046
Lantai 3	C16	127	ENVE	Combination	Max	11630.8444	57.9721	34.9414	2270.1014
Lantai 4	C21	166	ENVE	Combination	Max	7047.5783	91.8441	14.5004	1952.5355
Lantai 4	C16	126	ENVE	Combination	Max	7287.3063	148.6772	16.5085	1822.0152
Lantai 3	C21	167	ENVE	Combination	Min	6031.4807	-332.987	-23.9385	1299.6176
Lantai 3	C16	127	ENVE	Combination	Min	6489.8024	-313.7888	0.5019	1176.7311
Lantai 4	C21	166	ENVE	Combination	Min	3944.2157	-251.9874	-19.7028	1085.9015
Lantai 4	C16	126	ENVE	Combination	Min	4087.9334	-171.774	-11.9991	976.9674
Lantai 4	C36	183	ENVE	Combination	Max	-3048.6052	379.862	14.5004	933.5195
Lantai 3	C2	15	ENVE	Combination	Max	-2842.9514	-10.7457	13.5841	699.7732
Lantai 4	C27	214	ENVE	Combination	Max	-3540.9043	149.13	14.5004	595.1122
Lantai 3	C36	184	ENVE	Combination	Max	-3848.3589	324.0817	13.0112	571.029
Lantai 3	C7	55	ENVE	Combination	Max	-3904.8323	51.1361	13.7558	566.507
Lantai 4	C2	14	ENVE	Combination	Max	-2467.1186	-17.7911	13.9274	562.0898999...

Lampiran B.27 *Output* Distribusi Momen Kolom KS2 (4 cm)

Story	Column	Unique Name	Output Case	Case Type	Step Type	P kN	V3 kN	M2 kN-m	M3 kN-m
Lantai 2	C29	194	ENVE	Combination	Max	-13770.6156	1375.1539	2889.555	386.544
Lantai 2	C24	372	ENVE	Combination	Max	-14472.6874	1607.6169	2429.84	-175.3
Lantai 3	C29	192	ENVE	Combination	Max	-9596.9742	1219.3373	1955.0632	294.449
Lantai 3	C24	378	ENVE	Combination	Max	-9634.8298	1415.1981	1819.1199	-109.094
Lantai 2	C29	194	ENVE	Combination	Min	-22127.8753	777.1562	1523.6302	96.570
Lantai 4	C29	191	ENVE	Combination	Max	-6703.8539	902.3449	1413.6415	271.771
Lantai 2	C24	372	ENVE	Combination	Min	-23718.7926	926.9043	1368.3304	-491.691
Lantai 4	C24	377	ENVE	Combination	Max	-6711.7212	998.7115	1304.4918	-96.036
GF	C29	186	ENVE	Combination	Max	-19637.7224	1172.0766	1148.9068	23.330
Lantai 5	C29	190	ENVE	Combination	Max	-4496.4846	712.5348	1115.6718	221.821
GF	C24	379	ENVE	Combination	Max	-20342.6324	3089.0585	1065.5175	547.211
GF	C24	379	ENVE	Combination	Max	-21734.752	1317.385	1006.6358	-447.490
Lantai 3	C29	192	ENVE	Combination	Min	-15321.3892	622.5137	1004.6782	-10.776
Lantai 5	C24	376	ENVE	Combination	Max	-4411.1417	745.9885	972.2948	-25.355
Lantai 3	C24	378	ENVE	Combination	Min	-15706.8319	734.1947	920.7355	-396.420

Lampiran B.28 *Output* Distribusi Momen Kolom KT (4 cm)



Lampiran B.29 Permodelan Struktur Dengan *Differential Settlement* (5 cm)

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Story	Beam	Unique Name	Output Case	Case Type	Step Type	Station m	V2 kN	T kN-m	M3 kN-m	Ele
GF	B80	400	ENVE	Combination	Max	4.6	369.6969	270.0536	843.614	4i
GF	B80	400	ENVE	Combination	Max	5.0875	379.79	270.0536	660.9266	4i
Lantai 2	B80	407	ENVE	Combination	Max	4.6	316.5811	123.7844	658.1216	4i
GF	B80	400	ENVE	Combination	Max	4.6	-200.2281	18.2407	656.6393	4i
GF	B80	400	ENVE	Combination	Max	4.4833	-201.7809	18.2407	615.767	4i
GF	B80	400	ENVE	Combination	Max	4.4833	-207.4003	18.2572	614.4486	4i
GF	B80	400	ENVE	Combination	Max	4.25	-153.8232	-57.6215	588.498	4i
Lantai 2	B80	407	ENVE	Combination	Max	4.6	-137.176	13.3177	537.3724	4i
GF	B80	400	ENVE	Combination	Max	4.25	-210.5059	18.2572	529.6288	4i
GF	B80	400	ENVE	Combination	Min	4.6	206.1485	164.4528	523.2671	4i
Lantai 3	B80	406	ENVE	Combination	Max	4.6	266.1408	64.3145	521.654	4i
Lantai 2	B80	407	ENVE	Combination	Max	4.4833	-138.7288	13.3177	507.4536	4i
Lantai 2	B80	407	ENVE	Combination	Max	5.0875	325.2323	123.7844	506.4508	4i
Lantai 2	B80	407	ENVE	Combination	Max	4.4833	-142.9196	13.3495	506.4248	4i

Record: << < 1 > >> of 1874

Lampiran B.30 *Output* Distribusi Momen Balok B2i (5 cm)



Story	Beam	Unique Name	Output Case	Case Type	Step Type	Station	V2 kN	T kN-m	M3 kN-m	E
GF	B149	380	ENVE	Combination	Max	0.45	10167.5507	219.9942	7658.8103	
GF	B153	314	ENVE	Combination	Max	0.45	9723.7823	-67.9437	7572.0948	
Lantai 2	B153	337	ENVE	Combination	Max	0.45	7117.6066	-46.6953	5497.5145	
Lantai 2	B149	387	ENVE	Combination	Max	0.45	6838.6766	92.095	5214.9452	
GF	B149	380	ENVE	Combination	Min	0.45	6281.6853	126.1875	4709.9457	
GF	B153	314	ENVE	Combination	Min	0.45	6023.7906	-134.0794	4670.1732	
GF	B153	314	ENVE	Combination	Max	0.7813	9731.4591	-67.9437	4349.8204	
GF	B149	380	ENVE	Combination	Max	0.7813	10175.2274	219.9942	4289.5376	
Lantai 3	B153	336	ENVE	Combination	Max	0.425	4922.6075	-26.0953	3864.7538	
Lantai 3	B149	386	ENVE	Combination	Max	0.425	4475.6185	109.1145	3498.8693	
Lantai 2	B153	337	ENVE	Combination	Min	0.45	4282.0131	-120.0142	3278.6103	
Lantai 2	B153	337	ENVE	Combination	Max	0.7813	7125.2833	-46.6953	3138.5368	
Lantai 2	B149	387	ENVE	Combination	Min	0.45	4087.2656	33.362	3087.0905	
Lantai 2	B149	387	ENVE	Combination	Max	0.7813	6846.3533	92.095	2948.3621	
Lantai 4	B153	335	ENVE	Combination	Max	0.425	3514.9527	-21.8609	2793.999	

Lampiran B.31 *Output* Distribusi Momen Balok B3i (5 cm)

Story	Beam	Unique Name	Output Case	Case Type	Step Type	Station	V2 kN	T kN-m	M3 kN-m	Element
GF	B29	291	ENVE	Combination	Max	0.45	1972.4473	473.4992	3811.2612	291-1
GF	B29	291	ENVE	Combination	Max	0.45	1985.1927	473.4992	2986.7529	291-1
Lantai 3	B29	288	ENVE	Combination	Max	0.45	1256.4561	623.2501	2320.206	288-1
Lantai 2	B29	289	ENVE	Combination	Max	0.45	1268.7516	645.83	2245.0214	289-1
Lantai 3	B161	465	ENVE	Combination	Max	0.45	154.5347	260.3375	2243.1535	465-3
Lantai 2	B161	466	ENVE	Combination	Max	0.45	123.8294	265.9373	2195.2619	466-3
GF	B29	291	ENVE	Combination	Max	0.45	1997.938	473.4992	2156.934	291-1
GF	B86	364	ENVE	Combination	Max	0.45	-372.4977	-24.0722	2095.6613	364-3
Lantai 4	B161	464	ENVE	Combination	Max	0.45	137.3404	251.9092	2062.6284	464-3
GF	B29	291	ENVE	Combination	Min	0.45	1037.3995	205.7684	2033.2061	291-1
Lantai 4	B29	287	ENVE	Combination	Max	0.45	1104.0357	679.301	2019.8117	287-1
Lantai 2	B86	371	ENVE	Combination	Max	0.45	2.8277	-14.1897	2011.1845	371-3
Lantai 3	B86	370	ENVE	Combination	Max	0.45	28.5698	-12.4036	1999.1208	370-3
Lantai 5	B29	286	ENVE	Combination	Max	0.45	975.2194	635.0022	1814.2703	286-1
Lantai 3	B29	288	ENVE	Combination	Max	0.45	1267.3807	623.2501	1794.4066	288-1

Lampiran B.32 *Output* Distribusi Momen Balok B4 (5 cm)



ET Element Forces - Columns

File Edit Format-Filter-Sort Select Options

Units: As Noted Hidden Columns: No Sort: M2 DESC

Filter: None

	Story	Column	Unique Name	Output Case	Case Type	Step Type	P kN	V2 kN	T kN-m	M2 kN-m
▶	Lantai 2	C16	121	ENVE	Combination	Max	24109.5501	116.2451	37.7788	6011.5019
	Lantai 2	C21	161	ENVE	Combination	Max	21479.4774	78.451	6.1644	5878.2162
	GF	C16	128	ENVE	Combination	Max	37387.1532	-890.8756	93.91	3529.953
	Lantai 2	C21	161	ENVE	Combination	Min	12581.4365	-189.8123	-36.5394	3469.558
	Lantai 2	C16	121	ENVE	Combination	Min	14114.9006	-175.9223	2.3162	3458.98
	Lantai 2	C36	281	ENVE	Combination	Max	-5409.588	426.6088	6.1644	2622.4015
	GF	C2	16	ENVE	Combination	Max	-4448.2783	-218.3666	-40.7685	1880.95
	GF	C16	128	ENVE	Combination	Min	22351.774	-1606.9368	55.4791	1714.3092
	GF	C1	8	ENVE	Combination	Max	314.1124	-196.1563	-16.6086	1686.4356
	GF	C4	32	ENVE	Combination	Max	-2567.3585	108.8094	-40.7685	1666.4905
	GF	C3	24	ENVE	Combination	Max	-2498.3973	-78.971	-40.7685	1640.384
	GF	C5	40	ENVE	Combination	Max	-512.1736	385.6094	-40.7685	1634.8566
	GF	C21	168	ENVE	Combination	Max	31650.2181	-550.0719	-40.7685	1541.8415
	Lantai 2	C32	249	ENVE	Combination	Max	-8111.6227	197.5951	6.1644	1430.2625

Record: 1 of 436

Lampiran B.33 Output Distribusi Momen Kolom KS1 (5 cm)

ET Element Forces - Columns

File Edit Format-Filter-Sort Select Options

Units: As Noted Hidden Columns: No Sort: M2 DESC

Filter: None

	Story	Column	Unique Name	Output Case	Case Type	Step Type	V2 kN	T kN-m	M2 kN-m	M3 kN-m
▶	Lantai 3	C21	167	ENVE	Combination	Max	-7.7709	12.1537	2992.7474	6.1963
	Lantai 3	C16	127	ENVE	Combination	Max	41.6528	40.2821	2852.5052	167.1247
	Lantai 4	C21	166	ENVE	Combination	Max	69.4049	14.3511	2469.3633	115.7767
	Lantai 4	C16	126	ENVE	Combination	Max	156.1228	18.3087	2303.2165	267.2947
	Lantai 3	C21	167	ENVE	Combination	Min	-383.5207	-25.0818	1696.2237	-662.3543
	Lantai 3	C16	127	ENVE	Combination	Min	-335.5478	4.5075	1553.705	-407.868
	Lantai 4	C21	166	ENVE	Combination	Min	-281.9064	-19.9019	1418.1479	-397.459
	Lantai 4	C16	126	ENVE	Combination	Min	-161.8465	-10.649	1286.311	-139.8921
	Lantai 4	C36	183	ENVE	Combination	Max	399.7649	14.3511	1092.183	591.4726
	Lantai 3	C2	15	ENVE	Combination	Max	-11.8037	12.9347	764.9306	-21.7192
	Lantai 4	C27	214	ENVE	Combination	Max	152.1572	14.3511	664.6741	238.3105
	Lantai 3	C36	184	ENVE	Combination	Max	332.5512	12.1537	627.0467	528.276
	Lantai 4	C2	14	ENVE	Combination	Max	-18.6951	13.5701	626.088	24.6725
	Lantai 3	C7	55	ENVE	Combination	Max	50.123	13.2524	622.1846	171.9271
	Lantai 4	C32	254	ENVE	Combination	Max	155.6088	14.3511	611.3452	246.4902

Record: 1 of 444

Lampiran B.34 Output Distribusi Momen Kolom KS2 (5 cm)



ET Element Forces - Columns

File Edit Format-Filter-Sort Select Options

Units: As Noted Hidden Columns: No Sort: M2 DESC

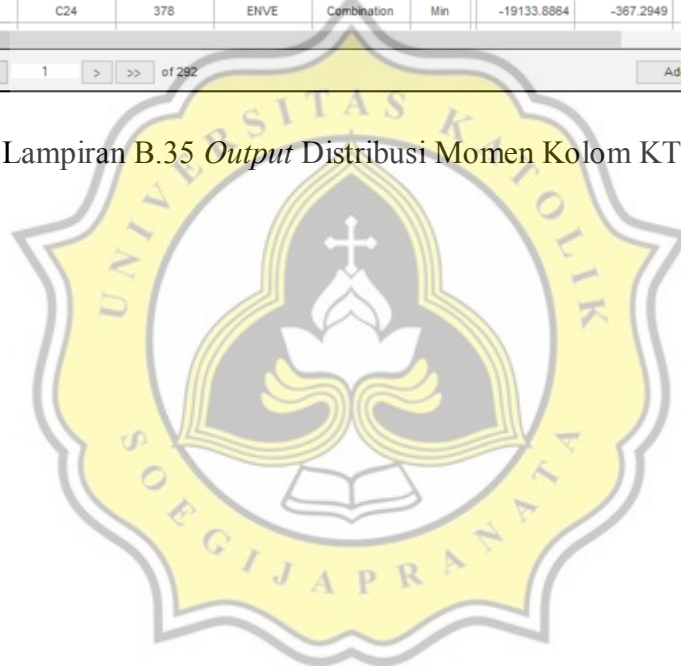
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	Story	Column	Unique Name	Output Case	Case Type	Step Type	P kN	V2 kN	V3 kN	M2 kN-m
▶	Lantai 2	C29	194	ENVE	Combination	Max	-16909.168	199.2647	1735.7989	3391.7046
	Lantai 2	C24	372	ENVE	Combination	Max	-17888.0593	-210.9985	2021.2408	3059.1833
	Lantai 3	C29	192	ENVE	Combination	Max	-11718.797	198.0832	1548.9009	2480.8472
	Lantai 3	C24	378	ENVE	Combination	Max	-11837.9362	-147.5847	1788.9273	2302.9821
	Lantai 2	C29	194	ENVE	Combination	Min	-27010.0679	62.8702	1008.9994	1975.0121
	Lantai 4	C29	191	ENVE	Combination	Max	-8126.7284	185.5075	1144.0984	1801.1925
	Lantai 2	C24	372	ENVE	Combination	Min	-29031.5934	-420.2333	1192.8054	1772.9082
	Lantai 4	C24	377	ENVE	Combination	Max	-8145.9109	-93.2594	1252.7818	1630.029
	GF	C29	186	ENVE	Combination	Max	-24198.0975	17.6345	1477.1552	1448.9557
	Lantai 5	C29	190	ENVE	Combination	Max	-5430.1245	155.4715	903.3865	1425.4242
	Lantai 3	C29	192	ENVE	Combination	Min	-18618.8913	8.0349	834.376	1342.6823
	GF	C24	379	ENVE	Combination	Max	-25191.368	519.725	3885.8359	1334.5487
	GF	C24	379	ENVE	Combination	Max	-26941.1698	-593.9123	1647.6324	1261.014
	Lantai 3	C24	378	ENVE	Combination	Min	-19133.8864	-367.2949	974.4492	1231.7898

Record: << < 1 > >> of 292

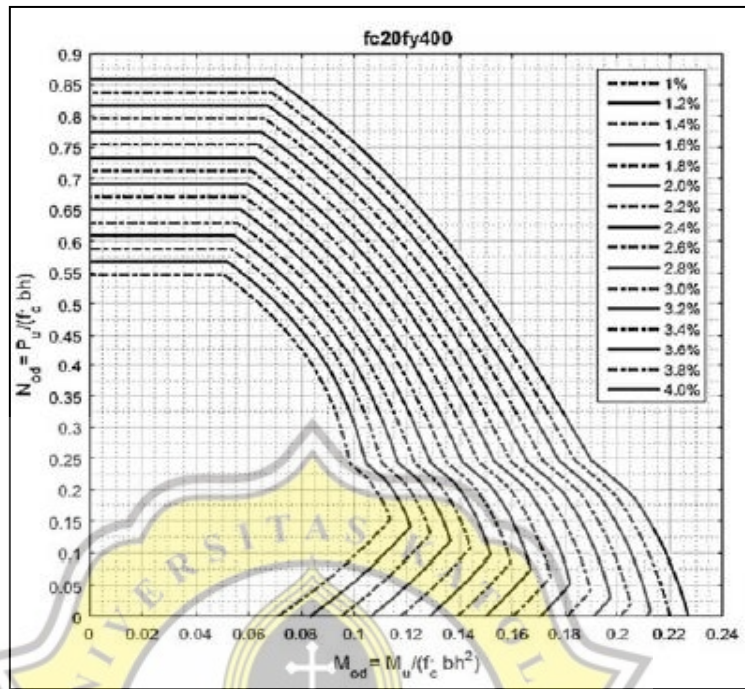
Add Tables... Done

Lampiran B.35 *Output* Distribusi Momen Kolom KT (5 cm)

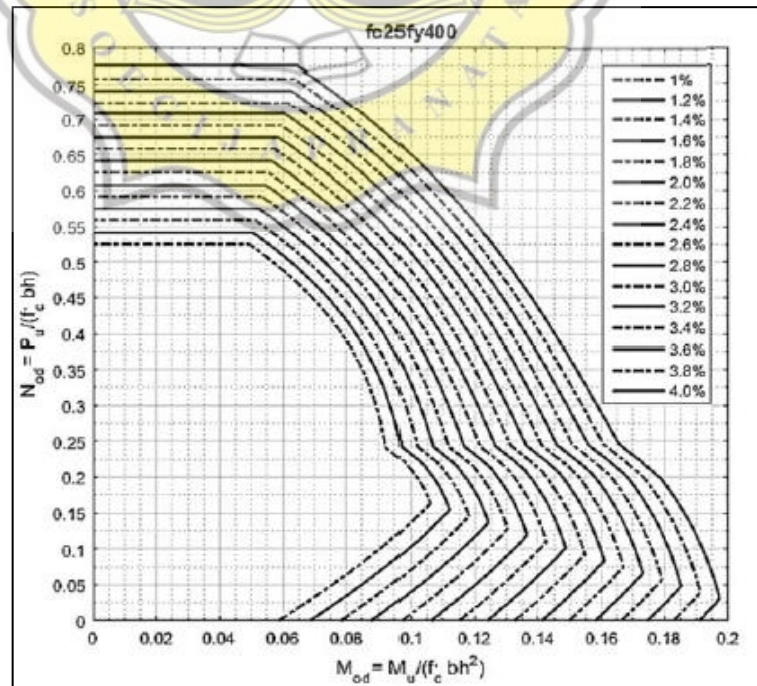




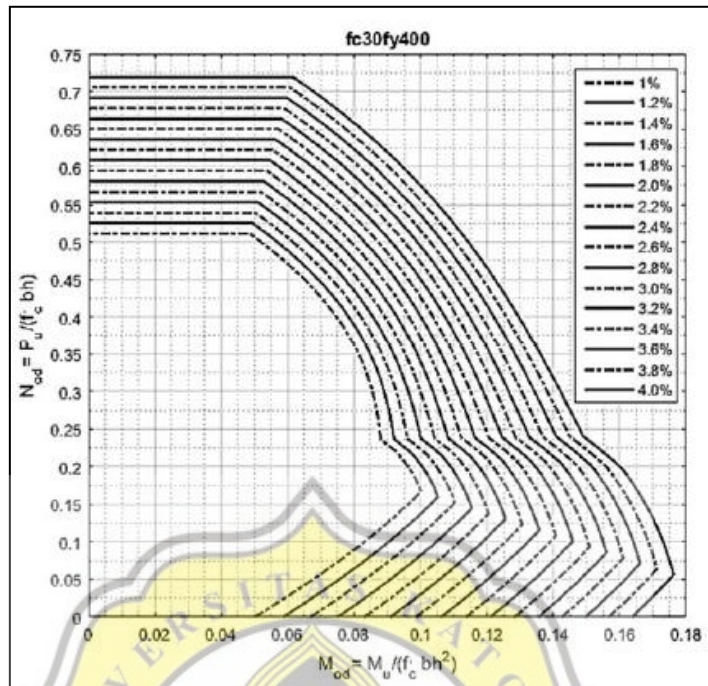
Lampiran C. Diagram Interaksi Kolom



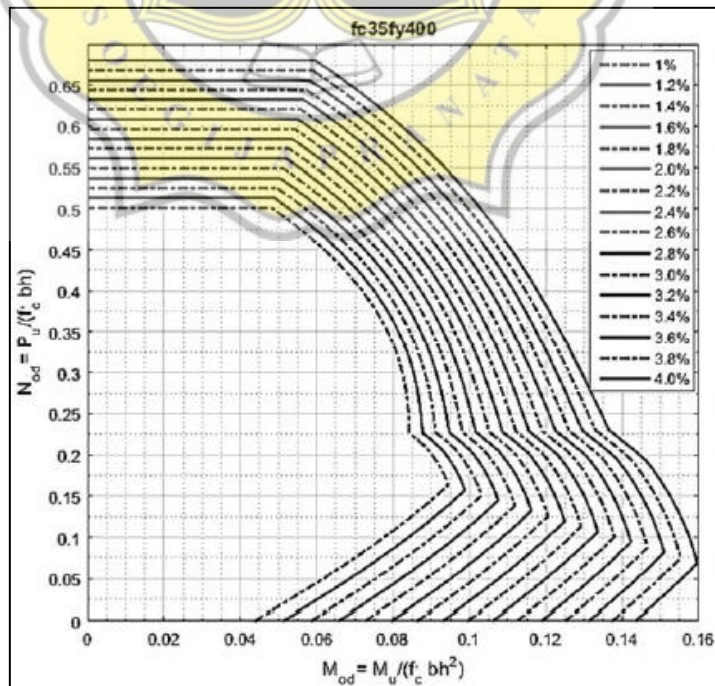
Lampiran C.1  $\phi M_n - \phi P_n$ ,  $f_c' = 20$  MPa,  $f_y = 400$  MPa,  $\mu = 0,7$



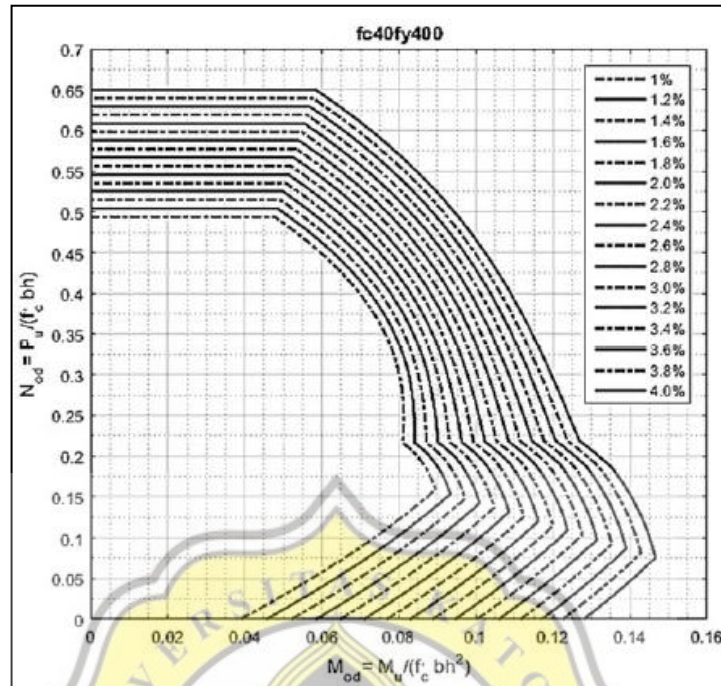
Lampiran C.2  $\phi M_n - \phi P_n$ ,  $f_c' = 25$  MPa,  $f_y = 400$  MPa,  $\mu = 0,7$



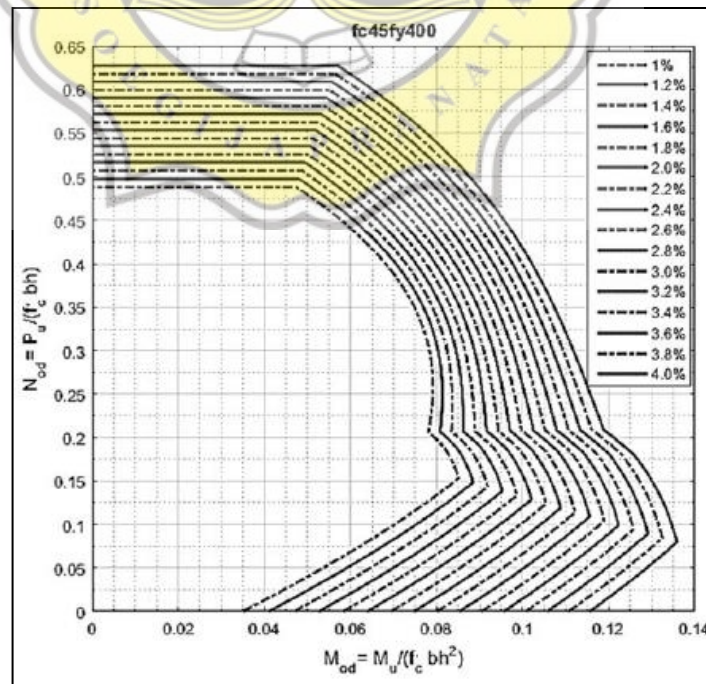
Lampiran C.3  $\phi M_n - \phi P_n$ ,  $f'_c = 30$  MPa,  $f_y = 400$  MPa,  $\mu = 0,7$



Lampiran C.4  $\phi M_n - \phi P_n$ ,  $f'_c = 35$  MPa,  $f_y = 400$  MPa,  $\mu = 0,7$



Lampiran C.5  $\phi M_n - \phi P_n$ ,  $f_c' = 40$  MPa,  $f_y = 400$  MPa,  $\mu = 0,7$



Lampiran C.6  $\phi M_n - \phi P_n$ ,  $f_c' = 45$  MPa,  $f_y = 400$  MPa,  $\mu = 0,7$





Lampiran C. Hasil Anti Plagiasi



**3.26%** PLAGIARISM APPROXIMATELY **0.03% IN QUOTES**

## Report #12557413

BAB 1 PENDAHULUAN Latar Belakang Menurut Sophian (2010), kota Semarang sebagai salah satu kota besar di pantai utara Pulau Jawa, mempunyai kepadatan penduduk yang cukup tinggi. Hal ini perlu diwaspadai, karena kepadatan penduduk lebih cenderung ke arah pantai sehingga dapat menimbulkan penurunan muka tanah yang signifikan. Penurunan muka tanah diakibatkan hal-hal yang dijabarkan sebagai berikut: Bukaan bawah tanah (tambang, terowongan, galian, dan lain sebagainya), Aktivitas tektonik, Pemompaan air tanah dan pengambilan gas alam yang berlebihan, Beban yang berat di atasnya (overburden, bangunan, dan lain sebagainya). Menurut Lastiasih dan Mochtar (2008), beberapa aspek yang perlu diperhatikan dalam mencegah penurunan (settlement) yang dijabarkan sebagai berikut: Gedung harus cukup kaku dalam mencegah differential settlement akibat konsolidasi tanah dasar, sehingga penurunan yang terjadi hanya menghasilkan penurunan secara merata (uniform settlement). Jenis penurunan diperlihatkan pada Gambar 1.1. Gambar 1.1 Jenis Penurunan (Sumber: <https://www.geotech.hr/en/differential-settlements/>, diakses pada 20 September 2020, pukul 16.30 WIB) Jumlah reaksi total tanah dasar harus sama dengan berat gedung, Toleransi differential settlement harus terpenuhi, untuk bangunan beton 0,002 s/d 0,003, dan untuk bangunan baja

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AUTHOR  
ANDRE KURNIAWAN

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