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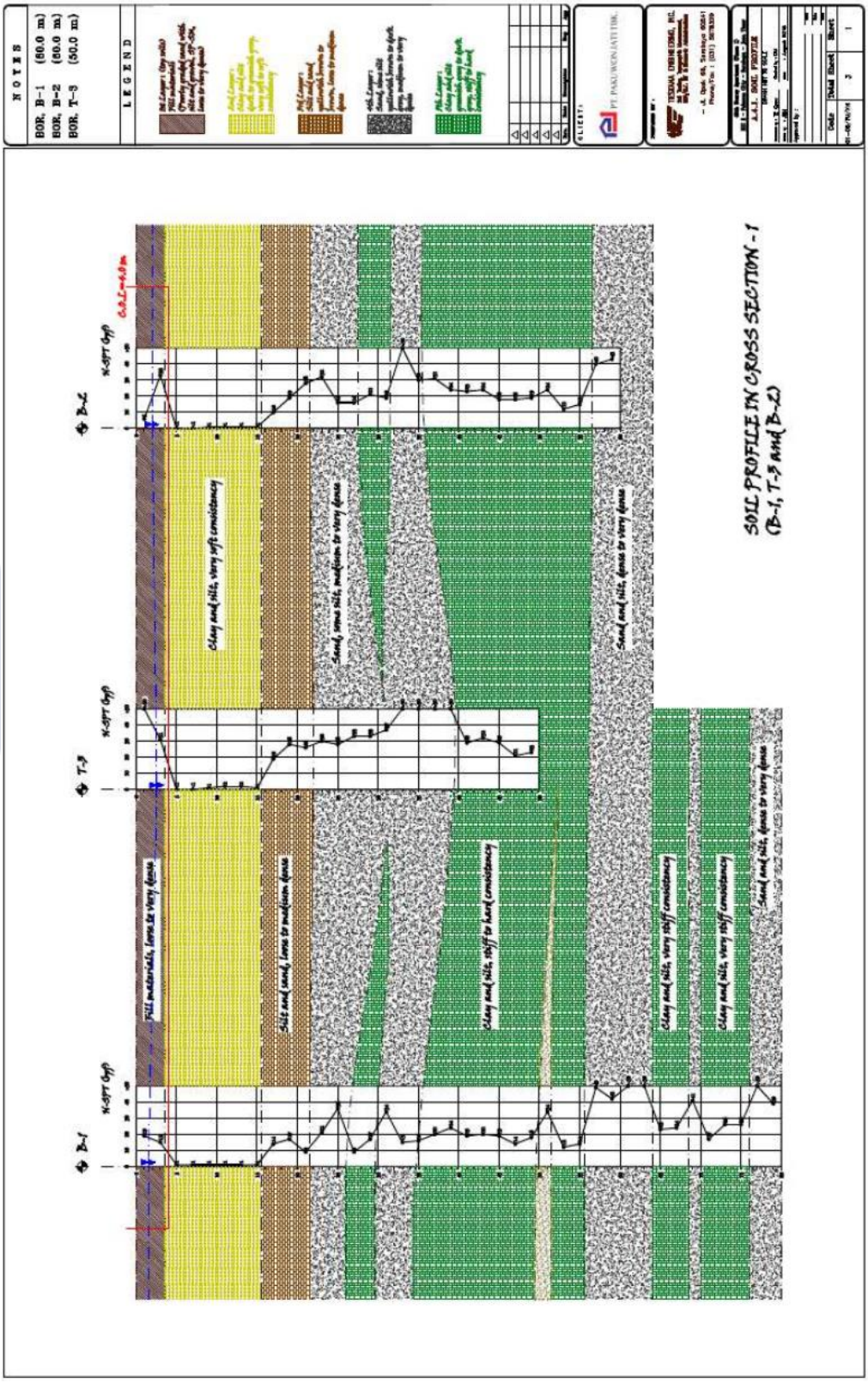
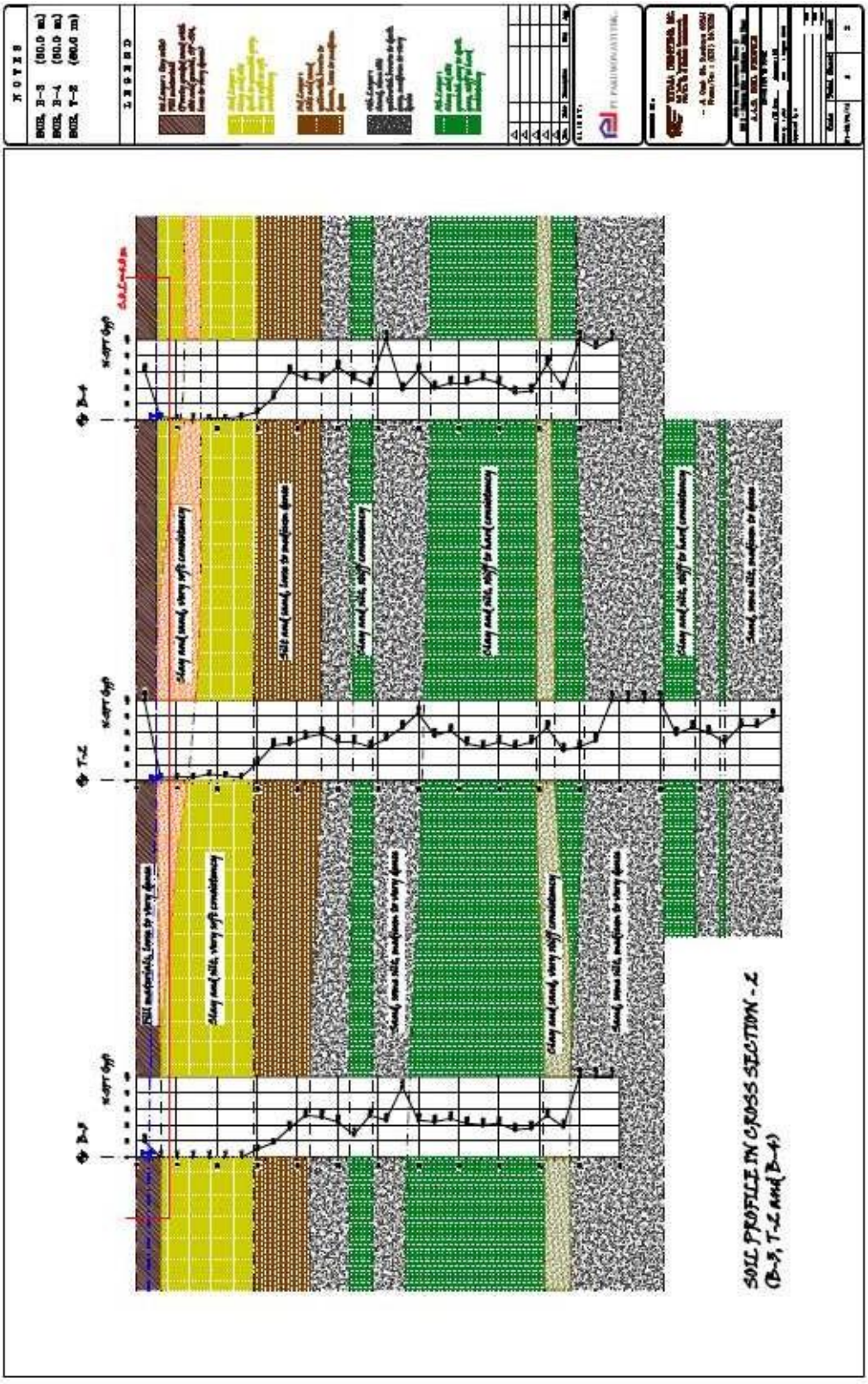
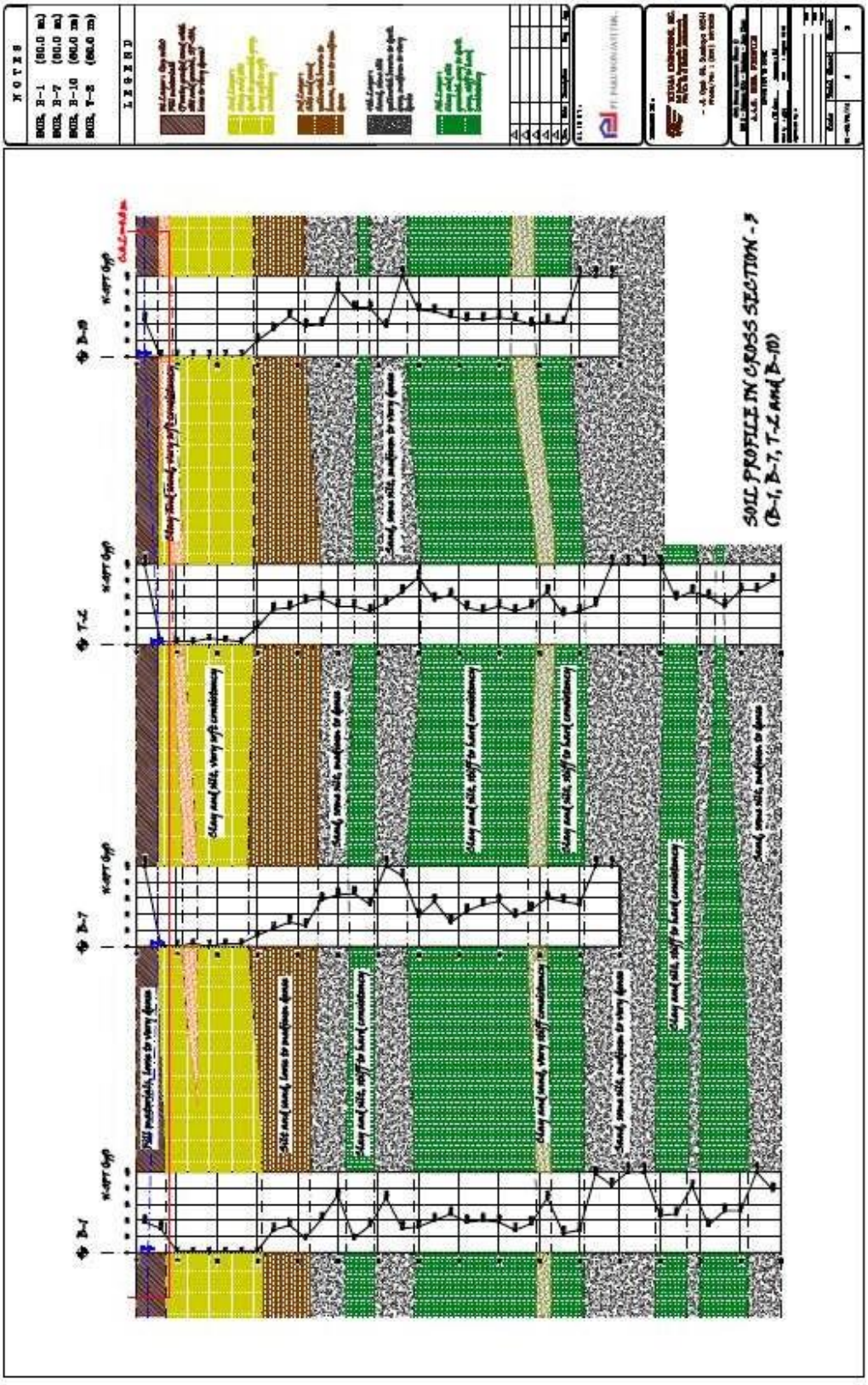
Lampiran 1. Irisan tanah 1 (data penyelidikan tanah B-1, T-3 dan B-2),



Lampiran 2. Irisan tanah 2 (data penyelidikan tanah B-3, T-2, dan B-4),



Lampiran 3. Irisan tanah 3 (data penyelidikan tanah B-1, B-7, T-2 dan B-10)



GRAIN SIZE DISTRIBUTION

Project : Apartment.
Location : ECC Mansion, Pakuwon City - Surabaya.

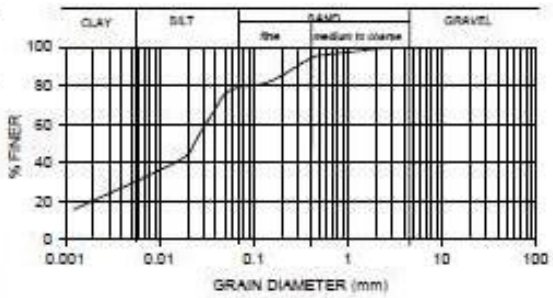
Boring/depth : T-2/ 6.00-6.50 m
Date : Juni 2016

Sieve Analysis

Sieve opening No	(mm)	mean weight	% retained	Cumulative % retained	% finer
1.5"	38.100	0.00	0.00	0.00	100.00
1.0"	25.400	0.00	0.00	0.00	100.00
3/4	19.000	0.00	0.00	0.00	100.00
3/8	9.500	0.00	0.00	0.00	100.00
4	4.750	0.00	0.00	0.00	100.00
8	2.360	1.65	0.55	0.55	99.45
16	1.180	5.24	1.75	2.30	97.70
30	0.600	4.92	1.64	3.94	96.06
40	0.425	4.48	1.49	5.43	94.57
100	0.150	37.54	12.51	17.94	82.06
200	0.075	6.64	2.21	20.16	79.84
	TOTAL	60.47	20.16	-	-

Hydrometer

Time (min)	Actual Hyd. reading (Ra)	Corr. Hyd. reading (Rc)	Effective depth L (cm)	Hyd. Corr. only for meniscus (R)	% finer	Lit	K	D, mm
0.25	51	48.8	7.8	52	79.02	31.200	0.01248	0.070
0.5	49	46.8	8.1	50	75.78	16.200	0.01248	0.050
1	43	40.8	9.1	44	66.06	9.100	0.01248	0.036
2	37	34.8	10.1	38	56.35	5.050	0.01248	0.026
5	33	30.8	10.7	34	49.87	3.567	0.01248	0.024
4	30	27.8	11.2	31	45.01	2.800	0.01248	0.021
8	27	24.8	11.7	28	40.16	1.483	0.01248	0.015
16	25	22.8	12	26	36.92	0.750	0.01248	0.011
30	23	20.8	12.4	24	33.68	0.413	0.01248	0.008
60	21	18.8	12.7	22	30.44	0.212	0.01248	0.006
120	19	16.8	13	20	27.20	0.109	0.01248	0.004
24 hrs	12	9.8	14.2	13	15.87	0.010	0.01248	0.001



Visuil description : Clay and silt (CL), dark grey, trace of fine sand

GRAIN SIZE DISTRIBUTION

Project : Apartment.
Location : ECC Mansion, Pakuwon City - Surabaya.

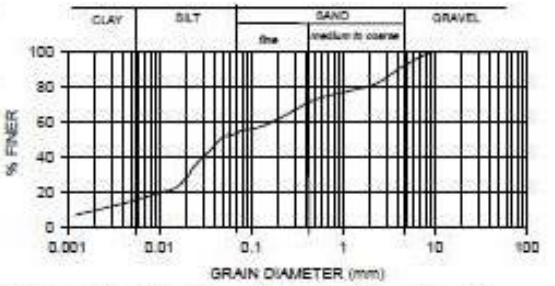
Boring/depth : T-2/ 18.00-18.50 m
Date : Juni 2016

Sieve Analysis

Sieve opening No	(mm)	mean weight	% retained	Cumulative % retained	% finer
1.5"	38.100	0.00	0.00	0.00	100.00
1.0"	25.400	0.00	0.00	0.00	100.00
3/4	19.000	0.00	0.00	0.00	100.00
3/8	9.500	0.00	0.00	0.00	100.00
4	4.750	21.94	7.31	7.31	92.69
8	2.360	30.67	10.29	17.60	82.40
16	1.180	13.14	4.38	21.98	78.02
30	0.600	11.04	3.68	25.66	74.34
40	0.425	8.88	2.95	28.62	71.38
100	0.150	37.17	12.39	41.01	58.99
200	0.075	11.80	3.93	44.94	55.06
	TOTAL	134.62	44.94	-	-

Hydrometer

Time (min)	Actual Hyd. reading (Ra)	Corr. Hyd. reading (Rc)	Effective depth L (cm)	Hyd. Corr. only for meniscus (R)	% finer	Lit	K	D, mm
0.25	51	48.8	7.8	52	53.52	31.200	0.01212	0.068
0.5	49	46.8	8.1	50	51.33	16.200	0.01212	0.049
1	43	40.8	9.1	44	44.75	9.100	0.01212	0.037
2	37	34.8	10.1	38	38.17	5.050	0.01212	0.027
5	33	30.8	10.7	34	33.78	3.567	0.01212	0.023
4	29	26.8	11.4	30	29.39	2.850	0.01212	0.020
8	23	20.8	12.4	24	22.81	1.550	0.01212	0.015
16	21	18.8	12.7	22	20.62	0.794	0.01212	0.011
30	19	16.8	13	20	18.43	0.433	0.01212	0.008
60	17	14.8	13.3	18	16.23	0.222	0.01212	0.006
120	15	12.8	13.7	16	14.04	0.114	0.01212	0.004
24 hrs	9	8.8	14.7	10	7.46	0.010	0.01212	0.001



Visuil description : Silt and fine sand (ML), yellowish brown, trace of clay

Lampiran 5. *Strength Test,*

VANE SHEAR TEST

Project : Apartment.
Location : ECC Mansion, Pakuwon City, Surabaya.

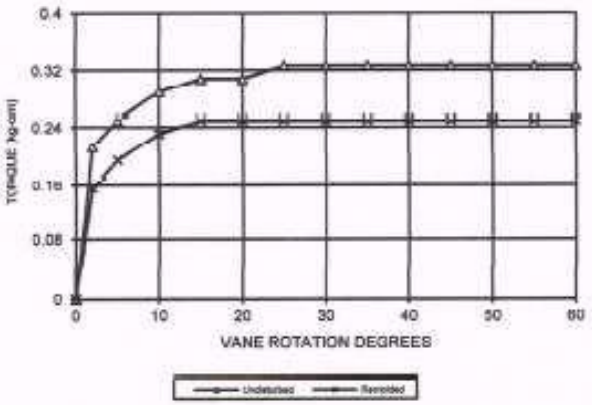
Tested by : BR.
Checked by : DM.

Bore Hole no : T-2
Depth : 6.00-6.50 m
Apparatus of vane
Vane height (H) : 1.25 cm
Vane width (D) : 1.25 cm
Spring no : 2

Soil description : Clay and silt

Sample	Max Su, kg/cm2
UD	: 0.08
R	: 0.06
Sensitivity	: 1.31

Vane Rotation Degrees	Spring deflection degrees		Torque T kg.cm	
(°)	UD	R	UD	R
0	0.0	0.0	0.000	0.000
2	11.0	8.0	0.212	0.154
5	13.0	10.0	0.250	0.192
10	15.0	12.0	0.288	0.231
15	16.0	13.0	0.308	0.250
20	16.5	13.5	0.317	0.260
25	17.0	13.5	0.327	0.250
30	17.0	13.5	0.327	0.250
35	17.0	13.5	0.327	0.250
40	17.0	13.5	0.327	0.250
45	17.0	13.5	0.327	0.250
50	17.0	13.5	0.327	0.250
55	17.0	13.5	0.327	0.250
60	17.0	13.5	0.327	0.250

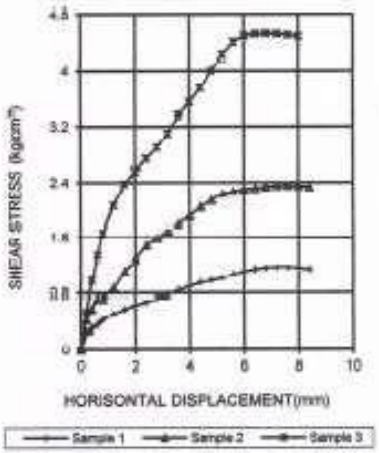


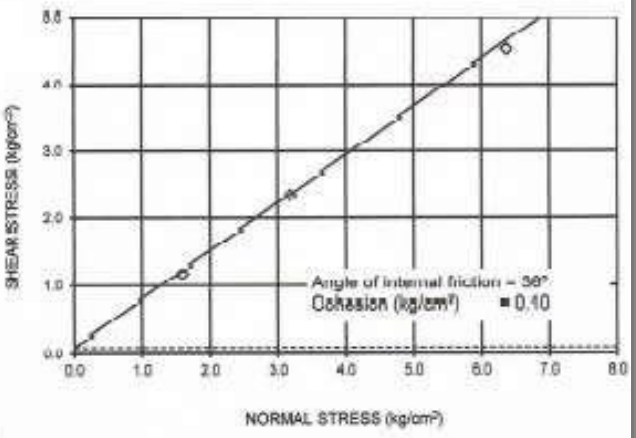
DIRECT SHEAR TEST

Project : Apartment.
Location : ECC Mansion, Pakuwon City, Surabaya.
Boring no. : T-2
Depth : 18.00-18.50 m
Date of Test : Juni 2016

Operator : BR.
Checked by : DM

Sample no.	1	2	3
Type	Quick	Quick	Quick
Normal stress, kg/cm^2	1.59	3.18	6.37
Shear stress, kg/cm^2	1.189	2.356	4.501



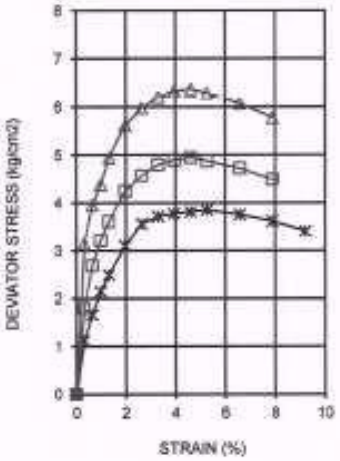


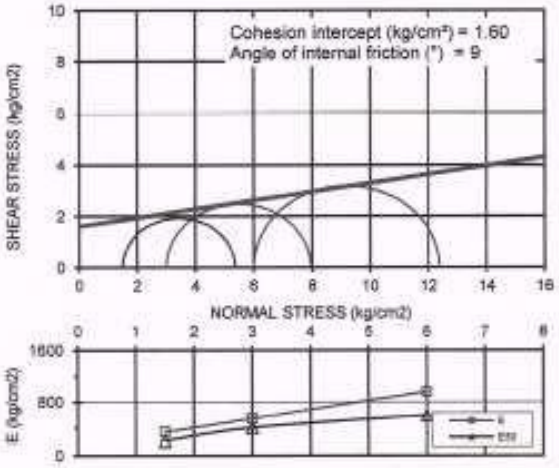
TRIAXIAL COMPRESSION TEST

Project : Apartment.
Location : ECC Mansion, Pakuwon City, Surabaya.

Date of Testing : Juni 2016
Boring no. : T-2
Sample depth : 36.00-36.50 m

Sample no.	1	2	3
Type	UU	UU	UU
Lateral stress (kg/cm2)	1.50	3.00	6.00
Deviator stress (kg/cm2)	3.85	4.95	6.37
Strain at failure, %	5.26	4.61	4.61
Modulus of elasticity (kg/cm2	341.98	547.17	957.55
Modulus secant (kg/cm2)	217.42	409.02	599.90



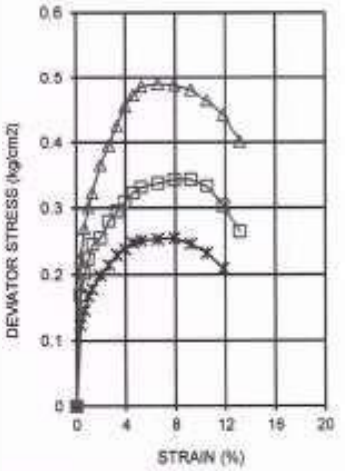


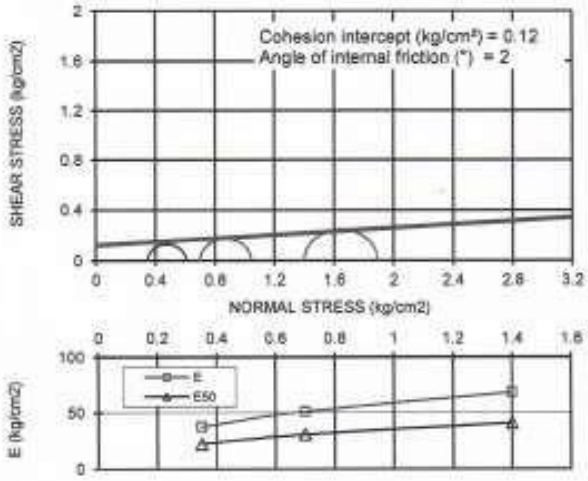
TRIAXIAL COMPRESSION TEST

Project : Apartment.
Location : ECC Mansion, Pakuwon City, Surabaya.

Date of Testing : Juni 2016
Boring no. : T-3
Sample depth : 8.00-8.50 m

Sample no.	1	2	3
Type	UU	UU	UU
Lateral stress (kg/cm2)	0.35	0.70	1.40
Deviator stress (kg/cm2)	0.25	0.34	0.49
Strain at failure, %	7.89	9.21	8.58
Modulus of elasticity (kg/cm2	37.62	51.30	68.40
Modulus secant (kg/cm2)	22.16	30.68	40.90





Lampiran 6. *Consolidation Test*

CONSOLIDATION TEST

Project : Apartment.
Location : ECC Mansion, Pakuwon City, Surabaya.
Boring No : T-2
Depth : 6.00-6.50 m

Test No : -
Date : Juni 2018
Tested by : DR
Checked by : DM

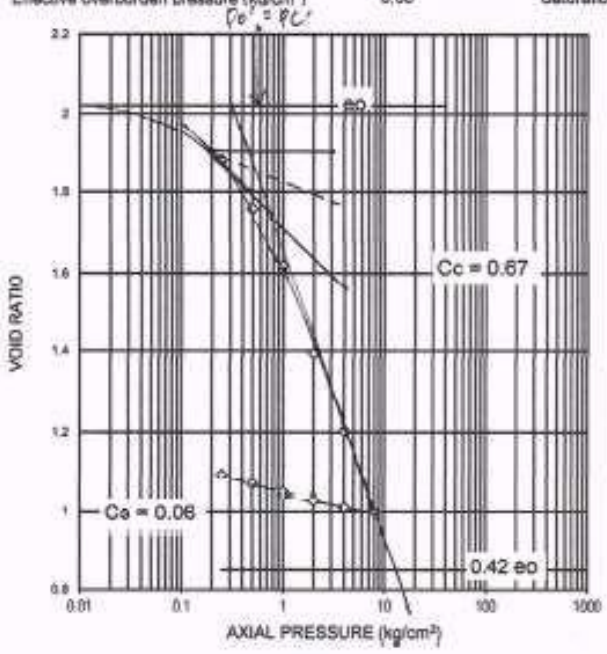
Aperatus
ring height , cm = 1.92
diameter, cm = 5.95
A area, cm^2 = 27.81

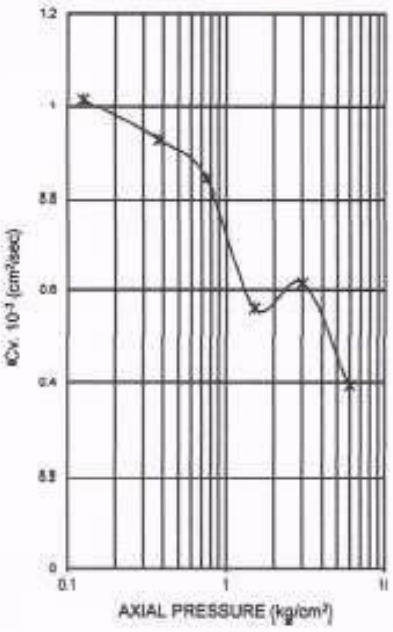
Gs = 2.58
eo = 2.02

Ws,solid weigth (gr) = 45.59
2Ho,solid height (cm) = 0.64

Applied pressure P (kg/cm^2)	Final dial reading	Dial change	Height 2H (cm)	Void height 2H-2Ho	$e = \frac{2H-2Ho}{2Ho}$	Fitting time (sec) t90	CV. Coef of consolidation 0.848H^2/t90
0.00	1.000		1.920	1.285	2.021		
		0.090				735.00	1.01E-03
0.25	0.910		1.830	1.195	1.880		
		0.078				735.00	9.25E-04
0.50	0.832		1.752	1.117	1.757		
		0.087				735.00	8.42E-04
1.00	0.745		1.665	1.030	1.620		
		0.145				960.00	5.60E-04
2.00	0.600		1.520	0.885	1.392		
		0.120				735.00	6.15E-04
4.00	0.480		1.400	0.765	1.203		
		0.130				960.00	3.94E-04
8.00	0.350		1.270	0.635	0.998		
		-0.008					
4.00	0.358		1.278	0.643	1.011		
		-0.012					
2.00	0.370		1.290	0.655	1.030		
		-0.010					
1.00	0.380		1.300	0.665	1.046		
		-0.013					
0.50	0.393		1.313	0.678	1.066		
		-0.017					
0.25	0.410		1.330	0.695	1.093		

		Before	After
Liquid Limit (%)	42	Sample height (cm)	1.92	1.33
Plasticity Index (%)	20	Water content (%)	78.0	42.4
Specific Gravity	2.58	Dry unit weight (gr/cm^3)	0.65	1.23
Preconsolidation pressure (kg/cm^2)	0.56	Void ratio	2.02	1.09
Effective overburden pressure (kg/cm^2)	0.66	Saturation	100	100





Lampiran 7.. *Isotropic Compression* Parameter.

ISOTROPIC COMPRESSION PARAMETER

Project : Apartment.
Location : ECC Mansion, Pakuwon City, Surabaya.
Boring No : T-2
Depth : 6.00-6.50 m

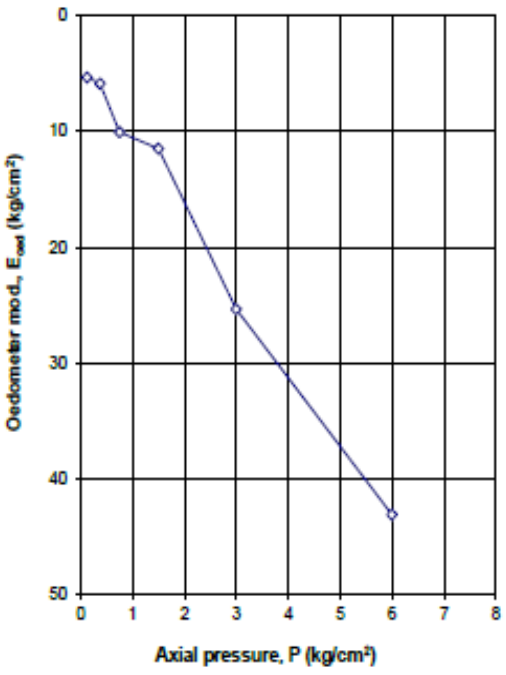
Test No : -
Date : Juni 2016
Tested by : BR
Checked by : DM

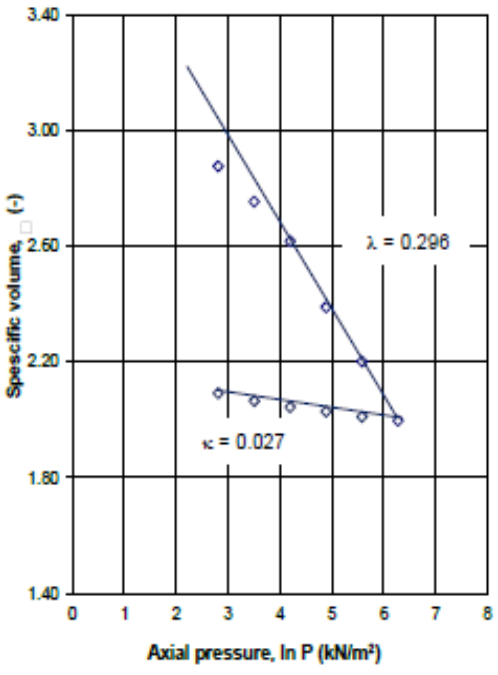
Aparatus
ring height , cm = 1.92
diameter, cm = 5.95
A area, cm^2 = 27.81

Gs = 2.58
eo = 2.02

Ws,solid weight (gr) = 45.59
2Ho,solid height (cm) = 0.64
Effective overburden pressure (kg/cm^2) = 0.56

Applied pressure P (kg/cm^2)	Final dial reading	Dial change	Height 2H (cm)	Void height 2H-2Ho	$e = \frac{2H-2Ho}{2Ho}$	Δe	$\Delta t = \frac{\Delta h}{h}$	K (cm/s)	Eoed (kg/cm^2)	ln P (kN/m2)	ν (-)
0.00	1.000		1.920	1.285	2.021						
		0.090				0.142	0.047	1.90E-07	5.33		
0.25	0.910		1.830	1.195	1.880					2.813	2.880
		0.078				0.123	0.043	1.58E-07	5.87		
0.50	0.832		1.752	1.117	1.757					3.507	2.757
		0.087				0.137	0.050	8.36E-08	10.07		
1.00	0.745		1.665	1.030	1.620					4.200	2.620
		0.145				0.228	0.087	4.88E-08	11.48		
2.00	0.600		1.520	0.885	1.392					4.893	2.392
		0.120				0.189	0.079	2.43E-08	25.33		
4.00	0.480		1.400	0.765	1.203					5.586	2.203
		0.130				0.205	0.093	9.14E-09	43.08		
8.00	0.350		1.270	0.635	0.998					6.279	1.998
		-0.008									
4.00	0.358		1.278	0.643	1.011					5.586	2.011
		-0.012									
2.00	0.370		1.290	0.655	1.030					4.893	2.030
		-0.010									
1.00	0.380		1.300	0.665	1.046					4.200	2.046
		-0.013									
0.50	0.393		1.313	0.678	1.066					3.507	2.066
		-0.017									
0.25	0.410		1.330	0.695	1.093					2.813	2.093



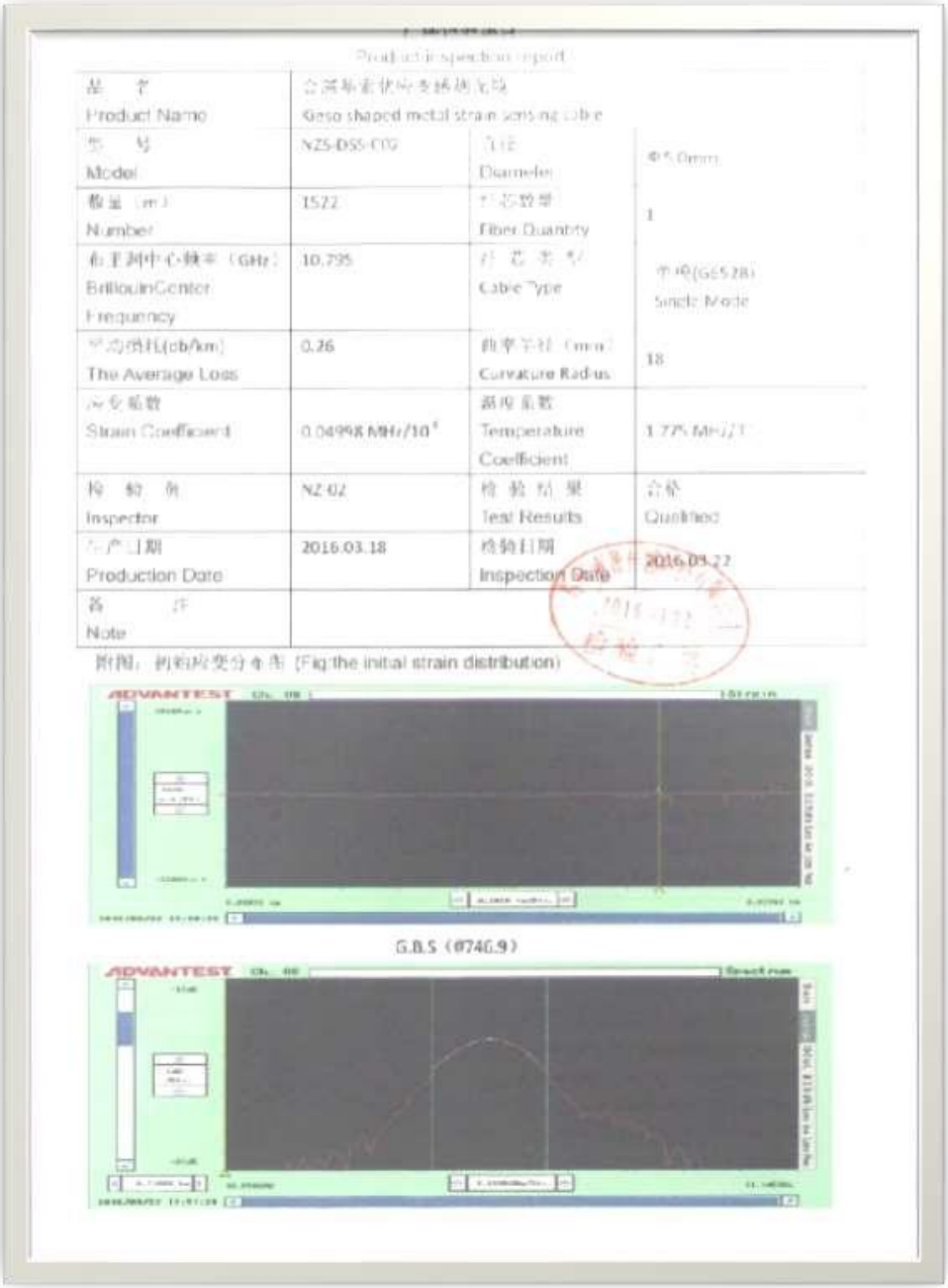


Lampiran 8. Hasil pengujian di laboratorium

Summary of Laboratory Test Results

Borehole ID	m	Soil Type	USCS Classification	Index Properties										Engineering Properties												
				Unit weight	Specific Gravity	Void Ratio	Saturation	Liquid Limit	Water Content	Plastic Limit	Liquidity Index	Type of Strength Test	Cohesion (total stress)	Friction Angle (total stress)	Undrained Modulii	Secant Modulii	Oedometer Modulii	Compression Index	Swelling Index	Preconsolidation Pressure	Over Consolidation Ratio	Modified compression index	Modified swelling index
	Depth			γ_t t/m^3	Gs	e_0	Sr %	L_L %	W_n %	P_L %	I_L		c kg/cm^2	ϕ °	E_u kg/cm^2	E_{50} kg/cm^2	E_{oed} kg/cm^2	C_c	C_s	Pc' kg/cm^2	OCR	λ	κ
T-2	6.0 – 6.5	Clay and silt, dark grey	CL	1.52	2.58	2.02	100	42	78	22	2.80	Vane	0.08	-	-	-	8	0.67	0.06	0.56	1.00	0.296	0.027
	18.0 – 18.5	Silt and fine sand, yellowish brown	ML	1.83	2.67	1.00	100	45	37	34	0.27	QT	0.10	36	-	-	39	0.28	0.03	2.00	1.28	0.095	0.011
	36.0 – 36.5	Clay and silt, dark grey	CH	1.77	2.58	1.06	100	77	41	30	0.23	UU	1.60	9	547	409	52	0.32	0.05	1.50	0.51	0.138	0.021
T-3	8.0 – 8.5	Clay and silt, dark grey	CH	1.50	2.52	2.04	100	54	81	23	1.87	UU	0.12	2	50	30	8	0.75	0.09	0.90	1.38	0.318	0.041
	20.0 – 20.5	Silt and sand, brown	ML	1.87	2.60	0.84	100	43	32	28	0.27	QT	0.01	37	-	-	30	0.43	0.09	2.80	1.66	0.158	0.040
	40.0 – 40.5	Clay and silt, yellowish brown	CH	1.83	2.61	0.93	100	60	35	29	0.19	UU	1.70	4	600	400	50	0.35	0.10	4.00	1.19	0.150	0.049
B-1	4.0 – 4.5	Clay and silt, dark grey	CH	1.52	2.54	1.97	100	74	78	33	1.10	UU	0.12	8	45	30	12	0.88	0.13	1.10	3.06	0.349	0.057
	14.0 – 14.5	Clay and silt, dark grey	CH	1.51	2.50	1.95	100	66	78	26	1.30	UU	0.12	4	60	60	13	0.88	0.12	1.30	1.49	0.322	0.050
	66.0 – 66.5	Clay and silt, greenish grey	CH	1.76	2.60	1.10	100	105	42	38	0.06	UU	1.40	3	270	170	60	0.42	0.14	6.00	1.24	0.167	0.062
B-2	16.0 – 16.5	Clay and silt, greenish grey	CH	1.55	2.56	1.81	100	114	70	41	0.40	UU	0.23	4	100	70	30	0.63	0.19	2.00	1.85	0.221	0.084
	46.0 – 46.5	Clay and silt, yellowish brown	CL	1.67	2.65	1.44	100	48	54	26	1.27	UU	1.15	4	410	225	24	0.56	0.10	0.85	0.28	0.250	0.045
	52.0 – 52.5	Clay and silt, greenish grey	CH	1.65	2.62	1.46	100	72	55	33	0.56	UU	1.10	5	440	280	40	0.54	0.14	4.00	1.15	0.222	0.063
B-3	8.0 – 8.5	Clay and silt, dark grey	CH	1.52	2.53	1.91	100	60	75	25	1.43	UU	0.11	3	40	27	6	0.72	0.11	0.40	0.70	0.331	0.052
	24.0 – 24.5	Sand, some silt yellowish brown	SM	1.88	2.68	0.85	94	35	30	27	0.38	QT	0.25	35	-	-	70	0.22	0.03	2.50	1.27	0.085	0.011
	44.0 – 44.5	Clay and silt, yellowish brown	CH	1.71	2.58	1.20	100	52	46	27	0.76	UU	1.50	9	270	170	32	0.41	0.11	1.50	0.44	0.170	0.050
B-4	10.0 – 10.5	Clay and silt, dark grey	CH	1.51	2.60	2.13	100	61	82	28	1.64	Vane	0.08	-	-	-	8	0.77	0.13	0.60	0.79	0.310	0.055
	28.0 – 28.5	Clay and silt, yellowish brown	CH	1.70	2.59	1.27	100	93	49	36	0.23	UU	1.35	12	530	330	21	0.60	0.15	2.10	1.04	0.265	0.067
	54.0 – 54.5	Clay and silt, dark grey	CH	1.66	2.59	1.40	100	64	54	27	0.73	UU	1.20	9	554	363	45	0.40	0.07	2.90	0.78	0.173	0.035
B-7	14.0 – 14.5	Clay and silt, greenish grey	CH	1.55	2.53	1.74	100	60	68	28	1.25	UU	0.42	3	140	81	9	0.62	0.11	0.80	0.78	0.311	0.052
	26.0 – 26.5	Sand and silt, brown	SM	1.91	2.70	0.84	97	37	30	26	0.36	QT	0.40	38	-	-	30	0.34	0.05	2.50	1.18	0.169	0.024
	42.0 – 42.5	Silt and clay, yellowish brown	ML	1.79	2.61	1.04	100	46	40	28	0.67	UU	1.90	5	450	200	50	0.35	0.07	3.90	1.15	0.152	0.033
B-8	6.0 – 6.5	Clay and silt, dark grey	CL	1.48	2.52	2.12	100	48	83	27	2.67	Vane	0.08	-	-	-	7	0.69	0.08	0.60	1.20	0.247	0.036
	12.0 – 12.5	Clay and silt, dark grey	CH	1.51	2.50	1.95	100	66	78	32	1.35	UU	0.10	4	60	60	6	0.76	0.15	0.40	0.50	0.368	0.068
	46.0 – 46.5	Silt and fine sand, yellowish brown	ML	1.86	2.70	0.97	100	44	36	30	0.43	QT	0.25	35	-	-	70	0.33	0.03	3.73	1.00	0.148	0.014
B-9	12.0 – 12.5	Clay and silt, dark grey	CH	1.47	2.50	2.15	100	75	85	34	1.24	Vane	0.08	-	-	-	11	0.66	0.09	0.91	1.00	0.276	0.041
	28.0 – 28.5	Clay and silt, yellowish brown	CH	1.66	2.58	1.39	100	79	54	33	0.46	UU	1.18	5	240	130	130	0.26	0.08	3.80	1.93	0.113	0.035
	40.0 – 40.5	Clay and silt, yellowish brown	CH	1.75	2.61	1.13	100	57	43	27	0.53	UU	1.40	6	360	205	53	0.40	0.10	3.00	1.05	0.164	0.048
B-10	4.0 – 4.5	Clay and sand, dark grey	CL	1.75	2.55	1.07	100	44	42	21	0.91	QT	0.16	31	-	-	11	0.30	0.04	0.70	1.75	0.121	0.016
	22.0 – 22.5	Sand and silt, brown	SM	1.85	2.75	0.98	93	40	33	27	0.46	QT	0.25	35	-	-	45	0.26	0.03	1.50	0.78	0.108	0.015
	48.0 – 48.5	Clay and fine sand, yellowish brown	CH	1.79	2.57	0.98	100	51	38	26	0.48	UU	1.10	8	500	300	60	0.40	0.09	4.40	1.11	0.176	0.041

Lampiran 9, Kalibrasi Kabel Fiber Optik



品　名 Product Name	金属标准状应变感测光缆 Geso shaped metal strain sensing cable		
型　号 Model	NZS-DSS-C05	直径 Diameter	5.0mm
数量（m） Number	1522	芯数 Fiber Quantity	1
布里渊中心频率（GHz） BrillouinCenter Frequency	10.735	光纤类型 Cable Type	单模(G652B) Single Mode
平均损耗(db/km) The Average Loss	0.26	弯曲半径（mm） Curvature Radius	18
应变系数 Strain Coefficient	0.04998 MHz/10⁻⁶	温度系数 Temperature Coefficient	1.225 MHz/℃
检　验　员 Inspector	NZ-02	检验结果 Test Results	合格 Qualified
生产日期 Production Date	2016.03.18	检验日期 Inspection Date	2016.03.22
备　注 Note			

附图：初始应变分布图 (Fig:the inital strain distribution)

G.B.S（@740.9）

Sumber: Hasil Analisis.