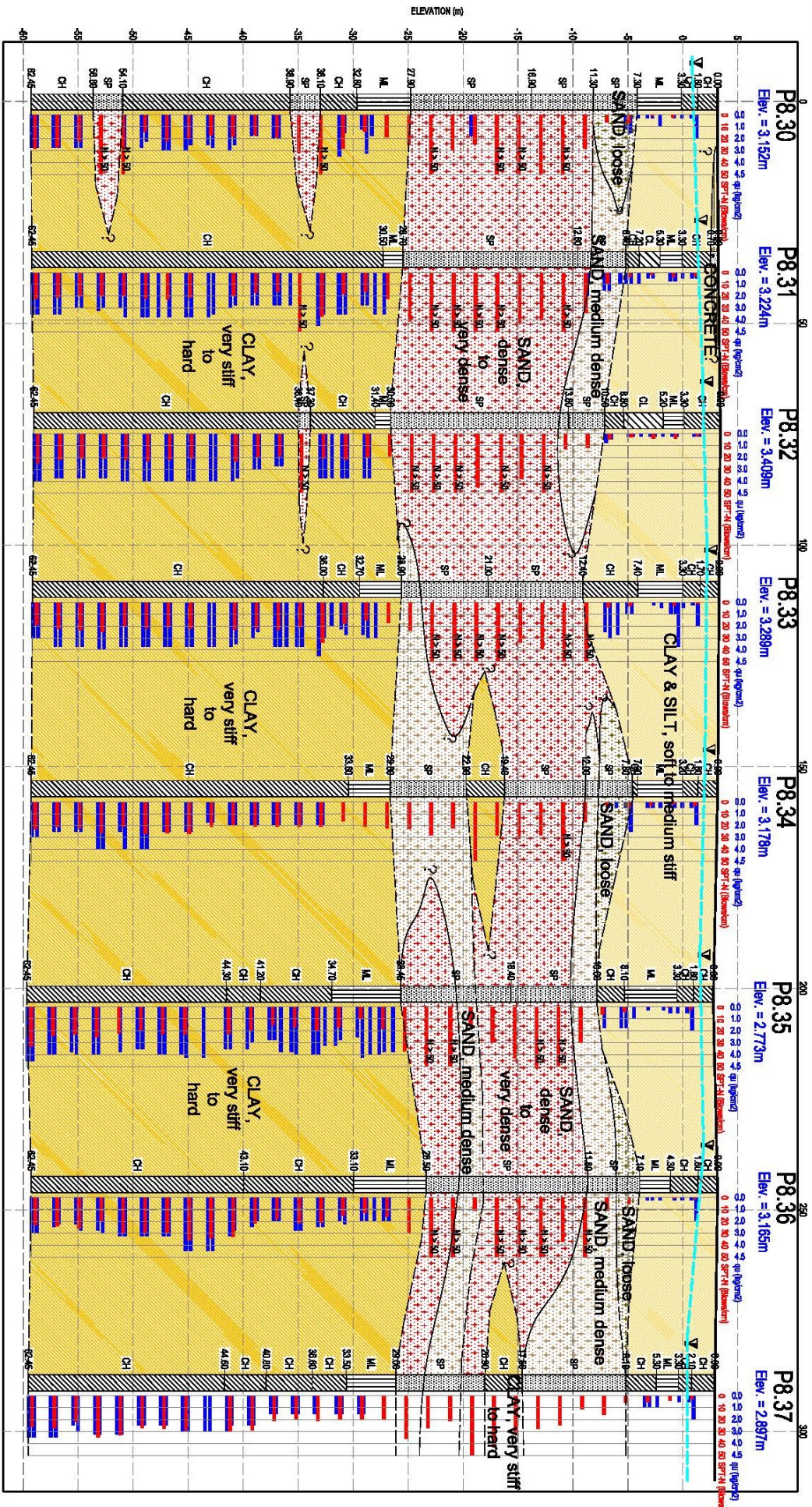


LAMPIRAN

Lampiran – 1 Stratigafi Tanah



Consistency & Compaction of soils derived from N value of Standard Penetration Test (ASTM D2487, ISRM, 1987 (1983), Terzaghi & Peck, 1948 (1987), Lambe & Whitman, 1988, Earth Manual, 1978)

- UNIT 1**
- Fine grained soil
 - Soil Unit 1 are described into three soil states as follows:
 - very soft to soft (SPT - N = 0 - 4)
 - medium soft (SPT - N = 4 - 9)
 - soft (SPT - N = 9 - 15)
 - very soft to stiff (SPT - N = 15 - 30)
 - stiff (SPT - N = 30 - 50)
 - very stiff (SPT - N = 50 - 100)
 - hard (SPT - N > 100)
- UNIT 2**
- Coarse grained soil
 - Soil Unit 2 are described into three soil states as follows:
 - very loose to loose (SPT - N = 0 - 10)
 - medium dense (SPT - N = 10 - 30)
 - dense (SPT - N = 30 - 50)
 - very dense (SPT - N > 50)

- Symbol Lithology**
- CH
 - ML
 - SP
 - CONCRETE
 - CL

- Borehole graph**
- Parameter of q_c (kg/cm²)
 - SPT-N VALUE (Blow/30cm)
 - Ground Water Level



TITLE		KSO JAWA KONTROLISI & ADHI KARYA	
CLIENT		KELAPA GAJONG, DI JAWAKITA	
PROJECT NO.		TOLL ROAD STAGE I SEMBANI - PULO GEBANG	
DRAWN		Headra	DATE
CHECKED		I. Pambono	DATE
SCALE		H:1:1000 V:1:500	DATE
PROJECT NO.		05	DATE

Lampiran – 2 Data NSPT

PRELIMINARY BORING LOG

PT. SOILENS

PROJECT : GEOTECHNICAL INVESTIGATION WORK FOR
 . : TOLL ROAD STAGE I SEMANAN - PULO GEBANG
 CLIENT : KSO JAYA KONTRUKSI & ADHI KARYA
 LOCATION : KELAPA GADING, DKI JAKARTA
 BOREHOLE NO. : P8.34
 ELEVATION : meter
 COORDINATES : E = 710668.755; N = 9318789.975
 DEPTH : 62.45 meter
 GWL : 1.15 meter

DATE : June 13, 2017 to June 16, 2017
 DRILLING METHOD : Coring Sampling
 SAMPLING METHOD : Shelby Tube
 SPT : Automatic Hammer
 DRILLER : Yana
 LOGGER : Angki Nugraha
 DRAWN : Angki Nugraha
 REVIEWED BY :
 PAGE : 1 of 2

SAMPLE	DEPTH (m)	USCS SYMBOL	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	DEPTH (m)	PENETROMETER q_u (kg/cm ²)	STANDARD PENETRATION TEST				Recovery (%)		
							DEPTH (m)	Blows/ Penetr.	SPT Graphic Blows/30 cm				
							10	20	30	40	40	80	
	0.00	CH		FAT CLAY, reddish grey, high plasticity, high dry strength, high toughness, non dilatancy, slightly silty medium, stiff (fill material test pit at 0.00-1.80 m depth)									
	1.80	CH		FAT CLAY, grey coloured, high plasticity, high dry strength, high toughness, non dilatancy, slightly silty, soft.	2.00	2.00	2.15	3/30					
	3.20	ML		SILT, grey coloured, low plasticity, low dry strength, low toughness, rapid dilatancy, few very fine grained sand, moist, some shall fragment, soft.	3.30	0.50							
					4.00	0.50	4.15	2/30					
					4.45	0.50							
					5.30	0.50							
					6.00	0.50	6.15	3/30					
					6.45	0.50							
	7.30	CH		FAT CLAY, greenish grey mottled yellowish coloured, high to medium plasticity, high to medium dry strength, high toughness, non dilatancy, trace fine grained sand, medium stiff.	8.00	2.50	8.15	6/30					
	7.80	SP		SAND POORLY GRADED, brown coloured, very fine to fine grained sand, rounded, moist, slightly silty, interlaminated with clay, sand if remould become to silty character, some portion cemented, loose.	8.45	0.50							
					9.30	0.50	10.15	3/30					
					10.00	0.50							
	12.00	SP		SAND POORLY GRADED, grey coloured, fine grained sand, rounded, moist, interlenses with silty, moderately cemented, medium dense to very dense. found fat clay, grey coloured, high to medium plasticity at 16.50-17.70 m depth.			12.15	17/30					
							14.15	58/30	N > 50				
							16.15	28/30					
							18.15	31/30					
	19.40	CH		FAT CLAY, greenish grey coloured, high to medium plasticity, high to medium dry strength, high toughness, non to slow dilatancy, interlaminated with very fine grained sand, very stiff to hard.	20.15		20.15	28/30					
					22.15		22.15	50/30					
	22.90	SP		SAND POORLY GRADED, grey coloured, fine to medium grained sand, rounded, moist, slightly silty, interlaminated with clayey, moderately cemented, medium dense.	24.15		24.15	22/30					
					26.15		26.15	28/30					
					28.15		28.15	23/30					
	29.80	ML		SILT, dark grey coloured, low plasticity, low dry strength, low toughness, slow to rapid dilatancy, predominately interlenses with lean clay, very stiff.	30.15		30.15	22/30					

Undisturbed Sample
 Disturbed Sample

PRELIMINARY BORING LOG

PT. SOILENS

PROJECT : GEOTECHNICAL INVESTIGATION WORK FOR
 . : TOLL ROAD STAGE I SEMANAN - PULO GEBANG
 CLIENT : KSO JAYA KONTRUKSI & ADHI KARYA
 LOCATION : KELAPA GADING, DKI JAKARTA
 BOREHOLE NO. : P8.34
 ELEVATION : meter
 COORDINATES : E = 710668.755; N = 9318789.975
 DEPTH : 62.45 meter
 GWL : 1.15 meter

DATE : June 13, 2017 to June 16, 2017
 DRILLING METHOD : Coring Sampling
 SAMPLING METHOD : Shelby Tube
 SPT : Automatic Hammer
 DRILLER : Yana
 LOGGER : Angki Nugraha
 DRAWN : Angki Nugraha
 REVIEWED BY :
 PAGE : 2 of 2

SAMPLE	DEPTH (m)	USCS SYMBOL	GRAPHIC LOG	ROCK / SOIL DESCRIPTION	DEPTH (m)	PENETROMETER qu (kg/cm ²)	STANDARD PENETRATION TEST				Recovery (%)		
							DEPTH (m)	Blows/ Penetr.	SPT Graphic Blows/30 cm				
								10	20	30	40	40	80
	33.60	ML	[Hatched Pattern]	SILT, dark grey coloured, low plasticity, low dry strength, low toughness, slow to rapid dilatancy, predominately interlenses with lean clay, very stiff. <i>(Layer continued from previous page)</i>			32.15	21/30	[Bar]				
				FAT CLAY, grey coloured, high plasticity, high dry strength, high toughness, non dilatancy, slightly silty, slacking when exposed, consolidated, very stiff.			34.15	16/30	[Bar]				
	35.50 [Box] 36.00				36.00	2.00	36.15	21/30	[Bar]				
					36.45	2.00							
					38.00	2.00	38.15	21/30	[Bar]				
					38.45	2.00							
					40.00	2.00	40.15	21/30	[Bar]				
					40.45	2.00							
					42.00	2.00	42.15	21/30	[Bar]				
					42.45	2.00							
					44.00	2.00	44.15	20/30	[Bar]				
					44.45	2.00							
	45.50 [Box] 46.00	CH	[Hatched Pattern]		46.00	1.75	46.15	21/30	[Bar]				
					46.45	1.75							
					48.00	2.50	48.15	27/30	[Bar]				
					48.45	2.50							
					50.00	2.50	50.15	26/30	[Bar]				
					50.45	2.50							
					52.00	4.00	52.15	27/30	[Bar]				
					52.45	4.00							
					54.00	4.00	54.15	21/30	[Bar]				
					54.45	2.50							
					56.00	4.00	56.15	26/30	[Bar]				
					56.45	4.00							
					58.00	2.50	58.15	22/30	[Bar]				
					58.45	2.50							
					60.00	2.50	60.15	21/30	[Bar]				
					60.45	2.50							
	62.45			END OF THIS BORING CASING DOWN TO 60.00 METERS DEPTH.	62.00	3.00	62.15	23/30	[Bar]				
					62.45	3.00							

Undisturbed Sample
 Disturbed Sample