TABLE 1.1.4 (1/17) LONGITUDINAL PROFILE

Semarang River (1/10)

LINE	DIS	ACCM. DIS	LEFT				CENTER							Total WIDTH	REMARKS
			Elevation	width	Backland	Dike Crown	Lowest	Water Level	Width	Dike Crown	Back Land	Elevation	width		
0	0.00	0.00	0.189	111.63	-0.05	0.11	-2.67	-0.27	126.34	0.58	0.62	0.619	76.44	314.41	
1	32.19	32.19	0.065	86.55	-0.06	0.03	-2.75	-0.41	127.93	0.87	0.76	1.043	68.62	283.10	
2	27.09	59.28	-0.040	97.63	-0.20	-0.14	-2.84	-0.40	124.09	1.06	0.62	0.775	47.82	269.54	
3	33.51	92.79	0.472	83.33	-0.24	0.37	-1.74	-0.49	99.30	0.57	0.69	0.738	58.15	240.78	
4	37.62	130.41	0.436	30.57	-0.14	0.39	-2.09	-0.52	94.32	1.12	0.94	0.890	61.84	186.73	
5	22.42	152.83	0.985	35.28	0.22	1.06	-2.45	-0.33	83.60	0.83	0.80	0.813	65.65	184.53	
6	25.96	178.79	1.062	62.77	0.34	0.96	-2.31	-0.35	76.36	0.86	1.14	1.012	50.15	189.28	
7	27.05	205.84	0.489	60.92	0.31	0.39	-2.43	-0.41	79.91	1.15	1.30	1.308	61.50	202.33	
8	29.72	235.56	0.165	53.77	0.32	0.07	-2.48	-0.37	66.86	1.20	1.47	1.338	52.64	173.27	
9	33.37	268.93	0.377	34.81	0.28	0.57	-2.25	-0.41	74.46	1.45	1.43	1.613	53.04	162.31	
10	27.39	296.32	1.304	41.18	0.00	1.20	-1.75	-0.48	57.86	0.49	1.57	0.571	69.92	168.96	
11	33.40	329.72	0.933	33.91	0.04	0.99	-1.89	-0.32	68.92	1.55	1.58	1.695	64.60	167.43	
12	31.49	361.21	0.420	23.43	-0.30	0.69	-1.72	-0.36	71.68	1.58	1.56	1.688	63.88	158.99	
13	29.45	390.66	0.403	24.79	-0.29	0.50	-1.80	-0.48	71.00	1.62	1.56	1.816	75.08	170.87	
14	29.50	420.16	0.652	24.63	0.36	0.71	-1.80	-0.53	51.51	1.29	2.17	1.372	71.83	147.97	
15	28.61	448.77	0.761	30.67	-0.31	0.66	-1.81	-0.63	51.12	1.35	2.23	1.398	52.72	134.51	
16	30.14	478.91	0.722	31.01	-0.16	0.72	-1.86	-0.68	49.57	0.94	2.21	1.034	81.23	161.81	
17	32.30	511.21	0.619	33.26	-0.51	0.52	-1.75	-0.49	50.20	1.08	2.19	1.123	65.12	148.58	
18	32.36	543.57	0.684	40.53	-0.68	0.58	-1.87	-0.48	50.80	1.39	2.26	1.532	59.58	150.91	
19	31.10	574.67	0.565	45.18	-0.76	0.47	-1.99	-0.52	52.26	1.65	2.14	1.818	67.38	164.82	
20	29.10	603.77	0.475	32.67	-1.30	0.52	-2.25	-0.06	54.52	1.77	0.81	1.853	51.61	138.80	
21	28.33	632.10	0.620	33.43	0.05	0.52	-2.31	-0.08	53.84	1.77	0.78	1.885	57.73	145.00	
21+23	19.96	652.06	2.249	57.84	1.52	2.97	-1.62	-0.43	69.35	2.89	1.66	2.419	47.54	174.73	Bridge(JL.Serskko Usman Janatin)
22	12.57	664.63	2.400	*	*	*	*	*	52.14	*	*	2.400	*	*	
23	31.84	696.47	1.456	40.61	-0.15	1.36	-2.38	-0.23	50.57	0.15	0.25	0.096	33.00	124.18	
24	32.29	728.76	0.787	21.37	-0.08	0.69	-2.19	-0.45	49.87	-0.03	0.29	-0.038	31.25	102.49	
25	32.74	761.50	1.128	21.43	0.23	1.03	-2.30	-0.46	49.59	-0.01	0.34	-0.007	34.59	105.61	
26	31.38	792.88	1.084	25.86	0.30	0.98	-2.03	-0.55	49.60	-0.03	0.00	-0.143	9.23	84.69	
27	29.82	822.70	0.805	15.91	0.39	0.71	-1.97	-0.56	49.73	0.06	-0.15	-0.106	2.72	68.36	
28	29.72	852.42	1.029	16.13	0.31	0.93	-2.00	-0.54	47.61	0.32	0.37	-0.057	4.73	68.47	
29	30.26	882.68	1.146	17.32	0.34	1.05	-2.03	-0.51	45.09	0.04	0.08	-0.073	8.38	70.79	

TABLE 1.1.4 (2/17) LONGITUDINAL PROFILE

Semarang River(2/10)

LINE	DIS	ACCM. DIS	LEFT				CENTER							Total WIDTH	REMARKS
			Elevation	width	Backland	Dike Crown	Lowest	Water Level	Width	Dike Crown	Back Land	Elevation	width		
30	28.93	911.61	1.386	46.81	0.50	1.29	-2.67	-0.47	40.59	-0.04	0.05	0.112	10.11	97.51	
31	27.65	939.26	0.796	31.71	0.49	0.70	-2.08	-0.12	45.38	0.06	0.39	0.191	4.82	81.91	
31+8	14.97	954.23	0.864	19.64	0.18	0.81	-3.27	-0.60	57.52	0.23	0.23	0.225	20.00	97.16	Asin River
32	20.41	974.64	0.273	3.78	-0.19	0.79	-2.54	-0.16	38.56	0.25	0.28	0.362	4.09	46.43	
33	30.44	1005.08	0.221	18.00	0.00	0.74	-1.79	-0.23	37.14	0.09	0.13	0.203	3.85	58.99	
34	30.49	1035.57	0.293	10.71	0.13	0.69	-2.30	-0.28	36.72	0.05	0.13	0.146	25.24	72.67	
35	39.04	1074.61	0.213	20.00	0.01	0.61	-3.07	-0.37	39.97	0.18	0.19	0.269	20.00	79.97	
36	31.37	1105.98	0.243	13.22	0.41	0.70	-1.60	-0.59	41.29	0.13	0.43	0.069	4.01	58.52	
37	32.78	1138.76	-0.025	10.37	0.13	0.65	-1.81	-0.57	37.30	0.00	0.47	0.182	21.17	68.84	
38	30.33	1169.09	0.326	10.90	0.17	0.70	-2.09	-0.10	37.70	0.08	0.28	0.083	16.15	64.75	
39	29.43	1198.52	0.185	20.00	0.40	0.86	-3.04	-0.67	37.28	0.07	0.12	0.079	11.15	68.43	
40	29.05	1227.57	0.215	10.10	0.04	0.83	-1.96	-0.01	34.86	0.08	0.32	0.183	11.33	56.29	
41	28.96	1256.53	0.208	20.00	0.08	0.69	-2.95	-0.62	36.10	0.11	-0.04	-0.047	20.00	76.10	
42	26.52	1283.05	0.154	10.39	-0.08	0.78	-2.05	-0.04	36.60	0.27	0.17	0.218	13.22	60.21	
43	27.45	1310.50	0.238	9.42	0.03	0.71	-2.33	-0.10	36.49	0.24	0.44	0.262	5.56	51.47	
44	26.51	1337.01	0.160	8.92	0.01	0.69	-2.14	-0.13	37.31	0.29	0.29	0.229	4.00	50.23	
45	27.44	1364.45	0.180	6.96	-0.04	0.63	-1.20	-0.15	37.54	0.35	-0.25	0.281	23.30	67.80	
46	29.40	1393.85	0.337	7.23	0.53	0.70	-1.57	-0.11	37.49	0.34	-0.30	0.256	32.97	77.69	
47	29.58	1423.43	0.049	40.31	0.10	0.70	-1.83	-0.29	40.24	0.30	-0.14	0.254	13.82	94.37	
48	31.25	1454.68	0.115	28.73	0.20	0.69	-1.74	-0.47	39.43	0.29	-0.16	0.270	16.60	84.76	
49	30.72	1485.40	0.030	32.89	0.03	0.69	-1.72	-0.52	39.92	0.36	-0.19	0.320	17.71	90.52	
50	30.58	1515.98	0.185	34.19	0.10	0.64	-2.73	-0.53	43.03	0.36	-0.22	0.298	14.30	91.52	
51	31.55	1547.53	0.123	29.40	0.16	0.71	-1.58	-0.57	41.54	0.28	-0.10	0.247	22.61	93.55	
52	29.70	1577.23	0.240	33.92	0.24	0.71	-2.34	-0.23	39.24	0.33	-0.14	0.318	17.67	90.83	
53	30.48	1607.71	0.242	37.52	0.23	0.77	-2.41	-0.26	37.33	0.28	-0.02	0.282	13.35	88.20	
53+17	20.56	1628.27	0.576	32.16	0.28	1.23	-1.82	-0.54	38.98	1.24	-0.10	0.283	33.18	104.32	Bridge(Steel)
54	13.51	1641.78	0.303	25.47	0.34	0.76	-2.54	-0.18	36.80	0.21	0.29	0.215	19.45	81.72	
55	31.37	1673.15	0.153	4.26	0.26	0.74	-2.45	-0.17	36.38	0.21	0.25	0.205	6.05	46.69	
56	30.76	1703.91	0.307	3.38	0.61	0.76	-2.47	-0.16	35.69	0.24	0.42	0.248	11.43	50.50	
57	35.14	1739.05	0.162	5.01	0.25	0.69	-2.41	-0.19	34.80	0.38	-0.08	0.315	37.72	77.53	
58	37.22	1776.27	0.161	0.72	0.22	0.69	-2.04	-0.16	37.49	0.23	0.29	0.379	9.13	47.34	

TABLE 1.1.4 (3/17)) LONGITUDINAL PROFILE

Semarang River(3/10)

LINE	DIS	ACCM. DIS	LEFT				CENTER							Total WIDTH	REMARKS
			Elevation	width	Backland	Dike Crown	Lowest	Water Level	Width	Dike Crown	Back Land	Elevation	width		
59	29.59	1805.86	0.195	58.98	0.08	0.76	-2.27	-0.21	34.78	0.21	0.18	0.399	8.05	101.81	
60	27.66	1833.52	0.371	13.08	0.42	0.75	-2.09	-0.21	40.38	0.43	0.46	0.434	8.29	61.75	
61	26.17	1859.69	0.126	5.79	0.05	0.80	-2.42	-0.28	35.02	0.34	0.27	0.344	8.52	49.33	
62	24.84	1884.53	0.116	6.69	0.21	0.82	-2.47	-0.26	37.59	0.38	0.39	0.384	12.05	56.33	
63	28.93	1913.46	0.318	40.35	0.30	0.89	-2.47	-0.34	37.77	0.42	0.36	0.429	5.46	83.58	
64	27.03	1940.49	0.353	8.86	0.41	0.90	-2.25	-0.51	37.37	0.62	0.03	0.623	31.93	78.16	
65	25.41	1965.90	0.123	7.21	0.12	0.82	-2.30	-0.48	37.96	0.61	0.12	0.538	9.17	54.34	
66	26.15	1992.05	0.309	5.39	0.30	0.87	-2.27	-0.47	33.21	0.72	0.19	0.391	40.21	78.81	
67	31.43	2023.48	0.188	12.14	0.29	0.91	-2.55	-0.55	34.18	0.74	0.15	0.472	24.57	70.89	
68	32.87	2056.35	0.284	8.32	0.36	0.91	-2.57	-0.47	34.54	0.79	0.23	0.455	22.61	65.47	
69	34.38	2090.73	0.290	17.81	0.24	0.98	-2.64	-0.50	33.58	0.77	0.10	0.380	28.75	80.14	
69+14	12.89	2103.62	0.385	20.08	-0.04	1.46	-1.81	-0.53	35.91	1.46	0.11	0.268	20.78	76.77	Bridgr(Conkrete)
70	16.18	2119.80	0.349	20.00	0.29	0.78	-2.93	-0.38	30.91	0.76	0.19	0.246	17.91	68.82	
71	31.13	2150.93	0.413	7.42	0.31	0.80	-2.28	-0.36	30.13	0.78	0.18	0.141	9.30	46.85	
72	28.44	2179.37	0.363	5.27	0.47	0.83	-2.39	-0.40	32.08	0.84	0.18	0.255	7.86	45.21	
73	31.43	2210.80	0.486	9.66	0.19	0.86	-2.43	-0.38	35.43	0.87	0.30	0.266	5.82	50.91	
74	31.85	2242.65	0.120	20.00	0.18	0.83	-2.96	-0.51	42.87	0.73	0.99	0.187	20.00	82.87	
75	32.10	2274.75	0.390	1.72	0.40	0.82	-2.38	-0.46	36.88	0.73	0.28	0.184	6.95	45.55	
76	32.82	2307.57	0.434	3.95	0.38	0.74	-1.99	-0.49	36.85	0.74	0.25	0.149	12.56	53.36	
77	30.76	2338.33	0.556	4.78	-0.20	0.85	-2.16	-0.50	34.35	0.75	0.35	0.117	7.21	46.34	
78	27.94	2366.27	0.581	8.80	-0.22	0.88	-1.75	-0.51	38.47	0.86	0.21	0.270	7.70	54.97	
79	28.03	2394.30	0.598	11.70	0.18	0.87	-1.72	-0.47	40.48	0.83	0.34	0.185	6.13	58.31	
80	30.21	2424.51	0.777	22.17	0.18	0.88	-1.69	-0.47	33.51	0.81	0.31	0.470	10.26	65.94	
81	29.79	2454.30	0.600	21.27	0.60	0.94	-1.62	-0.48	40.44	0.85	0.39	0.355	6.76	68.47	
82	27.59	2481.89	0.622	22.49	0.04	1.07	-1.62	-0.47	41.33	0.86	0.44	0.320	8.36	72.18	
83	28.87	2510.76	0.692	22.03	0.08	0.98	-1.51	-0.40	38.69	0.89	0.44	0.331	15.92	76.64	
84	29.51	2540.27	0.319	4.70	0.31	0.92	-1.62	-0.27	37.92	0.92	0.46	0.342	5.79	48.41	
85	29.72	2569.99	0.333	0.72	0.36	0.84	-2.19	-0.36	36.94	0.81	0.31	0.205	5.33	42.99	
86	29.59	2599.58	0.513	2.56	0.38	0.85	-1.80	-0.30	37.53	0.86	0.27	0.272	41.99	82.08	
87	30.73	2630.31	0.351	5.10	0.46	0.87	-1.91	-0.33	35.15	0.84	0.18	0.287	28.09	68.34	
88	33.63	2663.94	0.368	2.17	0.37	0.87	-2.17	-0.43	33.42	0.86	0.23	0.443	15.80	51.39	

TABLE 1.1.4 (4/17)) LONGITUDINAL PROFILE

Semarang River(4/10)

LINE	DIS	ACCM. DIS	LEFT				CENTER							Total WIDTH	REMARKS
			Elevation	width	Backland	Dike Crown	Lowest	Water Level	Width	Dike Crown	Back Land	Elevation	width		
89	35.23	2699.17	0.481	20.00	0.55	0.88	-2.87	-0.42	36.67	0.91	0.11	0.488	20.00	76.67	
90	31.72	2730.89	0.914	36.58	0.63	0.84	-2.83	-0.58	39.83	0.86	0.41	0.500	47.18	123.59	
90+11	11.18	2742.07	0.939	20.50	0.39	1.70	-1.42	-0.42	41.15	1.70	0.47	0.834	20.00	81.65	Bridgr(Conkrete),Baru River
91	14.82	2756.89	0.600	4.91	0.62	0.62	-2.16	-0.57	45.72	0.52	0.29	0.849	14.16	64.79	
92	22.64	2779.53	0.689	29.57	0.25	0.58	-2.05	-0.61	45.82	0.83	0.13	0.603	15.44	90.83	
93	20.83	2800.36	0.529	28.23	0.35	0.78	-2.67	-0.53	40.21	0.76	0.26	0.145	9.87	78.31	
94	26.75	2827.11	0.309	41.71	0.29	0.63	-2.12	-0.52	50.10	0.78	0.32	0.157	8.62	100.43	
95	28.93	2856.04	0.130	7.08	0.23	0.64	-2.65	-0.50	32.28	0.80	0.30	0.186	12.90	52.26	
96	25.27	2881.31	0.405	2.93	0.15	0.59	-2.31	-0.50	39.65	0.75	0.23	0.114	9.48	52.06	
97	27.47	2908.78	0.590	1.14	0.38	0.64	-2.50	-0.44	38.66	0.77	0.13	0.037	32.23	72.03	
98	27.28	2936.06	0.395	2.74	0.56	0.72	-2.18	-0.41	29.46	0.71	-0.08	0.050	5.78	37.98	
99	30.56	2966.62	0.223	10.68	0.26	0.61	-2.17	-0.34	26.29	0.74	0.12	0.075	9.72	46.69	
100	28.88	2995.50	0.253	21.13	0.18	0.65	-2.28	-0.37	22.62	0.83	0.26	0.172	6.35	50.10	
101	30.80	3026.30	0.209	2.63	0.29	0.82	-2.28	-0.42	24.23	0.82	0.23	0.164	6.68	33.54	
102	30.82	3057.12	0.388	6.65	0.53	0.81	-1.87	-0.47	24.70	0.71	0.45	0.561	22.06	53.41	
103	33.10	3090.22	0.113	7.36	0.17	0.82	-2.14	-0.58	26.15	0.81	0.45	0.660	25.80	59.31	
104	33.13	3123.35	0.071	1.88	0.19	1.10	-2.23	-0.65	28.38	0.84	0.49	0.683	4.67	34.93	
105	39.51	3162.86	0.172	30.21	0.09	1.01	-2.10	-0.63	22.27	0.85	0.31	0.568	16.87	69.35	
106	33.71	3196.57	0.538	52.71	0.35	0.96	-2.01	-0.66	27.19	0.80	0.38	0.624	17.24	97.14	
106+13	5.28	3201.85	0.722	34.85	0.81	0.72	-1.72	-0.35	29.15	0.78	0.94	0.778	34.57	98.57	Rail Way
107	27.78	3229.63	0.526	43.30	0.35	0.59	-2.21	-1.07	28.75	0.82	0.59	0.719	50.28	122.33	
108	32.40	3262.03	0.165	1.57	0.16	0.49	-2.35	-1.05	26.54	0.76	0.54	0.664	20.00	48.11	
109	27.13	3289.16	0.136	6.64	0.18	0.73	-2.04	-0.47	25.84	0.79	0.58	0.109	35.73	68.21	
110	28.51	3317.67	0.486	4.66	0.66	1.00	-2.22	-0.41	26.01	0.85	0.42	0.684	17.51	48.18	
111	30.64	3348.31	0.499	1.47	0.50	0.85	-1.89	-0.43	25.78	0.93	0.36	0.445	4.60	31.85	
112	29.76	3378.07	0.466	1.45	0.47	0.72	-2.00	-0.64	25.59	0.83	0.25	0.378	2.73	29.77	
113	30.23	3408.30	0.723	4.59	0.66	0.85	-1.55	-0.08	22.50	1.05	0.56	0.533	2.58	29.67	
114	26.02	3434.32	0.560	24.10	0.56	0.67	-1.84	-0.74	24.85	0.89	0.62	0.823	5.04	53.99	
115	27.81	3462.13	0.954	24.62	0.69	0.77	-2.14	-0.46	20.97	0.84	0.70	0.928	27.58	73.17	
115+14	13.34	3475.47	1.621	50.20	0.43	1.67	-1.42	-0.41	23.88	1.72	0.56	1.686	22.52	96.60	JL.Mputantular
116	16.51	3491.98	1.281	21.29	0.71	1.49	-1.19	-0.51	22.74	1.23	0.97	1.477	25.12	69.15	

TABLE 1.1.4 (5/17) LONGITUDINAL PROFILE

Semarang River(5/10)

LINE	DIS	ACCM. DIS	LEFT				CENTER							Total WIDTH	REMARKS
			Elevation	width	Backland	Dike Crown	Lowest	Water Level	Width	Dike Crown	Back Land	Elevation	width		
116+8	9.64	3501.62	1.352	47.50	0.78	1.35	-1.08	-0.47	20.52	1.36	0.55	1.365	45.29	113.31	JL.Suprapto
117	20.68	3522.30	0.861	22.31	0.61	0.87	-1.70	-0.56	23.47	1.45	0.79	0.893	20.10	65.88	
118	29.19	3551.49	0.548	4.10	0.70	0.54	-1.99	-0.58	23.39	0.69	0.65	0.553	14.75	42.24	
119	28.28	3579.77	0.571	7.73	0.76	0.57	-1.72	-0.70	24.18	0.76	0.62	0.630	14.21	46.12	
120	26.97	3606.74	0.537	6.64	0.78	0.53	-1.80	-0.65	26.52	0.86	0.77	0.772	34.47	67.63	
121	27.90	3634.64	0.676	4.78	0.71	0.74	-1.91	-0.68	24.97	0.99	0.88	0.829	22.77	52.52	
121+3	4.19	3638.83	0.922	20.00	0.73	0.96	-1.71	-0.53	18.69	1.06	0.75	1.028	30.73	69.42	Bridge(Foot Path)
122	27.15	3665.98	0.715	4.77	0.86	0.71	-1.48	-0.66	25.27	0.98	0.91	0.847	17.59	47.63	
123	29.90	3695.88	0.996	20.78	1.08	1.18	-1.44	-0.22	25.92	0.93	1.10	0.905	18.37	65.07	
124	29.94	3725.82	1.670	7.15	0.73	1.95	-1.50	-0.20	27.44	1.24	0.97	1.058	20.88	55.47	
125	30.05	3755.87	1.483	7.61	0.30	1.63	-1.59	-0.26	27.43	1.19	1.15	1.110	13.03	48.07	
126	29.95	3785.82	1.284	6.12	0.34	1.38	-1.38	-0.50	29.86	1.45	1.07	1.076	14.27	50.25	
126+17	17.57	3803.39	1.607	35.24	0.89	1.62	-1.08	-0.55	23.59	1.62	1.05	1.596	22.17	81.00	JL. Agus Salim
127	15.52	3818.91	1.124	4.93	0.75	0.98	-1.78	-0.59	22.01	0.61	0.89	1.129	4.77	31.71	
128	31.65	3850.56	1.078	5.11	0.78	0.82	-2.01	-0.37	21.45	0.74	0.79	0.768	2.43	28.99	
129	35.80	3886.36	0.596	4.84	0.86	0.59	-1.51	-0.53	20.80	0.67	0.73	0.690	7.44	33.08	
130	31.86	3918.22	0.663	5.46	0.34	0.54	-1.92	-0.52	21.00	0.56	0.63	0.619	3.54	30.00	
131	29.09	3947.31	0.621	4.37	0.62	0.67	-1.47	-0.51	22.78	0.63	0.62	0.637	3.04	30.19	
132	27.43	3974.74	0.689	4.04	0.68	0.62	-2.00	-0.52	22.11	0.69	0.65	0.653	4.09	30.24	
133	28.07	4002.81	0.733	4.74	0.83	0.71	-2.04	-0.53	21.85	0.67	0.63	0.632	3.27	29.86	
134	29.29	4032.10	1.099	8.10	0.79	0.75	-1.37	-0.54	21.73	0.77	0.73	0.739	5.01	34.84	
135	26.36	4058.46	1.214	6.58	0.87	0.89	-1.65	-0.47	21.55	0.81	0.91	0.917	2.86	30.99	
136	29.83	4088.29	0.847	3.55	0.91	0.88	-1.54	-0.54	22.71	0.97	1.00	0.999	6.92	33.18	
137	30.30	4118.59	1.384	3.39	1.32	1.21	-1.23	-0.41	22.99	1.26	1.13	1.131	5.72	32.10	
137+14	14.29	4132.88	1.070	11.69	1.22	1.31	-0.90	-0.60	21.61	1.25	1.68	1.278	13.81	47.11	JL.Gong Gong
138	19.30	4152.18	1.003	3.46	1.04	0.99	-1.21	-0.53	20.71	1.09	1.32	1.139	5.83	30.00	
139	31.96	4184.14	0.982	4.49	1.32	0.99	-1.42	-0.50	21.14	1.19	1.25	1.174	6.69	32.32	
140	32.54	4216.68	1.026	3.73	1.06	0.97	-1.08	-0.48	20.72	1.28	1.32	1.187	4.99	29.44	
141	33.27	4249.95	1.076	3.64	1.22	1.11	-1.00	-0.47	20.59	1.19	1.25	1.223	11.07	35.30	
142	32.92	4282.87	1.232	4.00	1.35	1.31	-0.94	-0.47	19.75	1.30	1.44	1.362	4.14	27.89	
142+25	24.48	4307.35	2.088	40.05	1.29	2.19	-0.75	-0.45	20.62	2.22	1.40	1.904	39.90	100.57	JL.Pekajan

TABLE 1.1.4 (6/17) LONGITUDINAL PROFILE

Semarang River(6/10)

LINE	DIS	ACCM. DIS	LEFT				CENTER							Total WIDTH	REMARKS
			Elevation	width	Backland	Dike Crown	Lowest	Water Level	Width	Dike Crown	Back Land	Elevation	width		
143	6.69	4314.04	1.896	4.02	2.10	2.08	-0.88	-0.29	21.72	1.89	1.47	1.796	47.34	73.08	
144	28.32	4342.36	1.486	4.28	1.53	1.35	-1.75	-0.33	21.36	1.19	1.17	1.220	5.00	30.64	
145	27.03	4369.39	1.861	5.48	1.59	1.25	-1.35	-0.25	19.16	1.37	1.30	1.337	10.87	35.51	
146	30.96	4400.35	1.690	11.22	1.59	1.27	-1.19	-0.23	20.17	1.32	1.39	1.290	11.80	43.19	
147	29.10	4429.45	1.624	1.64	1.62	1.40	-1.24	-0.33	23.68	1.31	1.62	1.287	10.06	35.38	
148	25.99	4455.44	1.560	1.48	1.56	1.41	-1.20	-0.31	22.05	1.45	1.41	1.400	4.45	27.98	
149	28.17	4483.61	1.553	4.03	1.68	1.48	-1.17	-0.27	20.77	1.43	1.74	1.394	4.90	29.70	
150	22.69	4506.30	1.492	6.31	1.61	1.49	-1.23	-0.32	18.78	1.51	1.65	1.493	10.47	35.56	
151	27.27	4533.57	1.609	5.30	1.87	1.51	-1.30	-0.36	21.07	1.55	1.70	1.515	4.13	30.50	
152	27.55	4561.12	1.616	20.00	1.85	1.49	-1.02	-0.33	21.06	1.56	1.70	1.615	20.00	61.06	
153	29.00	4590.12	1.660	4.32	1.75	1.66	-1.30	-0.37	20.64	1.65	1.76	1.712	4.83	29.79	
154	26.60	4616.72	1.667	3.57	1.73	1.54	-0.99	-0.36	21.69	1.66	1.70	1.609	5.23	30.49	
155	28.05	4644.77	1.603	4.33	1.84	1.53	-1.01	-0.42	21.18	1.88	1.63	1.616	4.40	29.91	
156	31.55	4676.32	1.587	5.84	1.77	1.58	-1.11	-0.43	19.49	1.94	1.75	1.651	5.49	30.82	
156+17	17.82	4694.14	2.183	20.00	2.00	2.18	-0.85	-0.36	20.28	2.00	1.81	1.820		40.28	Bridge(Foot Path)
157	11.91	4706.05	1.638	16.32	1.65	1.59	-1.06	-0.38	19.59	1.97	1.91	1.709	4.92	40.83	
158	30.76	4736.81	1.550	5.65	1.62	1.57	-0.86	-0.38	19.48	2.13	1.98	1.790	5.00	30.13	
159	29.92	4766.73	1.567	3.97	1.62	1.56	-0.88	-0.38	17.86	2.16	1.98	1.793	5.23	27.06	
160	30.39	4797.12	1.647	20.00	1.86	1.63	-0.84	-0.40	17.13	2.05	1.92	1.785	20.00	57.13	
161	33.36	4830.48	2.386	20.00	1.67	2.59	-0.38	-0.45	13.67	2.59	1.81	2.426	20.00	53.67	JL.Kimangun Sarkoro
162	30.19	4860.67	2.070	3.56	2.14	2.07	-0.75	-0.27	13.06	2.04	2.09	1.986	3.92	20.54	
163	29.25	4889.92	2.079	20.00	2.50	2.05	-0.66	-0.28	14.07	1.99	2.57	1.916	20.00	54.07	
164	29.70	4919.62	2.087	4.82	2.14	2.10	-0.74	-0.23	14.43	2.10	2.20	2.038	3.33	22.58	
165	29.49	4949.11	2.089	6.45	2.15	2.13	-0.66	-0.17	14.53	2.19	2.17	2.111	15.10	36.08	
166	28.00	4977.11	2.042	4.97	2.15	2.03	-0.54	-0.12	14.35	2.36	2.26	2.289	11.81	31.13	
167	30.68	5007.79	2.156	5.55	2.27	2.17	-0.40	-0.15	14.34	2.22	2.47	2.178	15.41	35.30	
168	30.29	5038.08	2.346	7.24	2.30	2.37	-0.25	0.09	13.46	2.46	2.62	2.539	6.55	27.25	
168+7	7.01	5045.09	2.698	35.49	1.98	2.70	-0.11	0.08	13.84	2.75	2.11	2.630	21.98	71.31	JL.Sebandaran
169	23.54	5068.63	1.951	4.07	2.12	2.03	-0.34	0.17	12.44	2.10	2.23	2.055	3.19	19.70	
170	29.98	5098.61	1.984	20.00	2.14	1.98	-0.21	0.26	14.17	2.15	2.11	2.052	3.44	37.61	
171	29.39	5128.00	1.896	5.45	2.00	1.91	-0.21	0.23	14.17	2.16	2.33	2.085	5.90	25.52	

TABLE 1.1.4 (7/17)) LONGITUDINAL PROFILE

Semarang River(7/10)

LINE	DIS	ACCM. DIS	LEFT				CENTER							Total WIDTH	REMARKS
			Elevation	width	Backland	Dike Crown	Lowest	Water Level	Width	Dike Crown	Back Land	Elevation	width		
172	27.72	5155.72	1.971	4.83	2.02	2.01	-0.37	0.26	14.03	2.20	2.43	2.122	23.93	42.79	
173	30.84	5186.56	2.043	3.82	2.14	2.06	-0.29	0.26	14.14	2.19	2.26	2.158	9.17	27.13	
174	33.00	5219.56	2.089	4.28	2.13	2.10	-0.56	0.27	14.28	2.23	2.28	2.172	5.55	24.11	
175	31.71	5251.27	2.221	3.12	2.26	2.24	-0.46	0.28	14.13	2.33	2.52	2.319	15.88	33.13	
176	30.66	5281.93	2.333	3.34	2.41	2.34	-0.30	0.34	14.16	2.36	2.47	2.324	5.86	23.36	
177	27.74	5309.67	2.417	5.79	2.37	2.34	-0.27	0.21	14.34	2.33	2.41	2.342	4.41	24.54	
178	27.40	5337.07	2.356	4.42	2.38	2.23	-0.29	0.22	14.47	2.30	2.38	2.364	5.48	24.37	
179	28.31	5365.38	2.376	5.49	2.51	2.41	-0.31	0.34	14.11	2.44	2.42	2.356	6.08	25.68	
180	24.32	5389.70	2.398	12.71	2.38	2.36	-0.20	0.32	14.07	2.46	1.68	2.392	10.82	37.60	
181	28.81	5418.51	2.364	13.72	2.40	2.31	-0.23	0.31	14.06	2.36	2.32	2.252	6.16	33.94	
182	30.80	5449.31	2.359	4.67	2.42	2.27	-0.18	0.31	14.03	2.38	2.45	2.286	5.97	24.67	
183	31.36	5480.67	2.862	20.00	2.33	2.87	0.21	0.51	12.80	2.91	2.76	2.909	20.69	53.49	JL.Wot Gandul
184	30.45	5511.12	2.440	15.35	2.50	2.41	-0.28	0.49	14.32	2.49	2.50	2.437	3.92	33.59	
185	30.00	5541.12	2.319	5.35	2.41	2.28	0.04	0.50	14.09	2.45	2.50	2.392	4.58	24.02	
186	30.85	5571.97	2.389	7.14	2.43	2.36	-0.27	0.49	14.67	2.40	2.44	2.353	10.16	31.97	
187	33.00	5604.97	2.398	2.62	2.41	2.37	-0.11	0.49	14.77	2.49	2.58	2.460	9.49	26.88	
188	31.03	5636.00	2.355	16.73	2.36	2.34	-0.13	0.52	14.36	2.54	2.62	2.506	5.56	36.65	
189	29.88	5665.88	2.420	1.70	2.38	2.29	-0.04	0.54	18.29	2.48	2.24	2.460	3.44	23.43	
190	29.66	5695.54	2.311	6.54	2.35	2.29	-0.31	0.52	14.29	2.55	2.67	2.543	5.69	26.52	
191	26.32	5721.86	2.303	14.73	2.17	2.28	-0.07	0.52	15.02	2.42	2.43	2.483	3.29	33.04	
192	29.44	5751.30	2.258	9.06	2.55	2.26	0.03	0.63	14.39	2.31	2.38	2.323	19.01	42.46	
193	28.44	5779.74	2.298	6.84	2.38	2.28	0.17	0.55	14.59	2.37	2.45	2.371	6.40	27.83	
194	31.12	5810.86	2.357	7.40	2.39	2.32	0.11	0.66	14.20	2.41	2.47	2.353	4.05	25.65	
195	29.74	5840.60	2.584	7.49	2.54	2.53	-0.41	0.65	12.61	2.53	2.53	2.448	32.16	52.26	
195+17	17.18	5857.78	3.062	17.39	2.50	3.05	0.14	0.64	10.61	2.85	2.66	2.998	21.10	49.10	JL.Gajah Mada
196	13.11	5870.89	1.456	10.85	2.28	2.37	0.31	0.70	11.99	2.55	2.93	2.667	44.27	67.11	
197	30.17	5901.06	2.324	5.71	2.39	2.32	0.41	0.69	10.60	2.44	2.48	2.467	6.65	22.96	
198	29.24	5930.30	2.339	12.36	2.35	2.31	0.36	0.72	10.50	2.38	2.45	2.386	5.65	28.51	
199	30.11	5960.41	2.441	10.99	2.44	2.50	0.40	0.81	10.91	2.72	2.44	2.371	17.23	39.13	
200	30.02	5990.43	2.502	13.15	2.45	2.44	0.39	0.78	9.74	2.40	2.44	2.379	4.72	27.61	
201	30.18	6020.61	2.286	5.29	2.33	2.26	0.53	0.86	10.17	2.43	2.46	2.392	4.52	19.98	

TABLE 1.1.4 (8/17)) LONGITUDINAL PROFILE

Semarang River(8/10)

LINE	DIS	ACCM. DIS	LEFT				CENTER							Total WIDTH	REMARKS
			Elevation	width	Backland	Dike Crown	Lowest	Water Level	Width	Dike Crown	Back Land	Elevation	width		
202	30.08	6050.69	2.223	5.60	2.24	2.22	0.02	0.89	10.09	2.65	2.26	2.286	7.68	23.37	
203	30.72	6081.41	2.320	5.30	2.29	2.28	0.49	0.94	11.63	2.37	2.40	2.304	18.75	35.68	
204	29.39	6110.80	2.488	5.10	2.49	2.46	0.52	0.97	10.69	2.50	2.55	2.419	6.03	21.82	
205	29.77	6140.57	2.499	3.07	2.51	2.48	2.48	0.61	10.43	2.58	2.56	2.475	7.55	21.05	
206	25.65	6166.22	2.561	6.03	2.55	2.55	0.67	1.05	11.05	2.53	2.53	2.423	5.94	23.02	
207	32.07	6198.29	2.435	6.92	2.42	2.37	0.84	1.09	10.37	2.48	2.50	2.423	7.36	24.65	
208	30.13	6228.42	2.542	5.86	2.53	2.50	0.73	1.12	10.77	2.45	2.52	2.393	6.36	22.99	
209	30.12	6258.54	2.453	6.73	2.43	2.42	0.70	1.13	10.26	2.39	2.51	2.449	4.30	21.29	
210	30.15	6288.69	2.428	6.27	2.39	2.41	0.65	1.14	10.16	2.49	2.49	2.427	15.87	32.30	
211	22.74	6311.43	2.407	31.96	2.29	2.41	0.24	1.14	7.94	2.41	2.47	2.439	17.76	57.66	JL.Thamrin
212	30.40	6341.83	2.455	4.73	2.47	2.41	0.79	1.15	9.20	2.55	2.68	2.528	5.64	19.57	
213	30.05	6371.88	2.546	3.71	2.53	2.47	0.93	1.13	10.27	2.56	2.61	2.554	9.37	23.35	
214	29.79	6401.67	2.574	5.32	2.57	2.53	0.83	1.21	10.39	2.59	2.65	2.600	9.18	24.89	
215	31.09	6432.76	2.612	5.33	2.62	2.55	1.12	1.33	10.55	2.65	2.81	2.666	5.08	20.96	
215+22	22.73	6455.49	2.728	24.84	2.12	2.77	1.09	1.37	9.56	2.71	2.77	2.599	35.20	69.60	Bridge(Foot Path)
216	7.44	6462.93	2.754	20.00	2.95	2.86	1.10	1.30	9.68	2.71	2.73	2.606	20.00	49.68	
217	30.64	6493.57	2.837	6.32	2.84	2.78	1.11	1.34	10.67	2.51	2.67	2.531	6.11	23.10	
218	29.94	6523.51	2.774	6.27	2.75	2.70	1.15	1.36	10.26	2.53	3.01	2.554	22.46	38.99	
219	30.55	6554.06	2.783	6.28	2.76	2.72	1.18	1.40	9.89	2.63	2.82	2.672	3.89	20.06	
220	30.54	6584.60	2.747	6.18	2.70	2.65	1.21	1.47	9.86	2.63	2.80	2.774	6.16	22.20	
221	30.52	6615.12	2.702	10.98	2.68	2.62	1.31	1.48	10.75	2.67	2.90	2.735	19.45	41.18	
222	29.84	6644.96	2.675	5.31	2.66	2.65	1.32	1.50	10.25	2.71	3.14	2.939	30.52	46.08	
223	31.05	6676.01	2.830	5.76	2.87	2.86	1.34	1.54	10.80	2.88	3.35	3.291	10.69	27.25	
224	29.23	6705.24	2.906	21.56	2.87	2.84	1.33	1.57	11.65	2.89	3.57	3.462	15.37	48.58	
225	29.38	6734.62	2.890	6.20	2.86	2.82	1.39	1.61	11.41	3.43	3.56	3.441	24.88	42.49	
225+10	10.18	6744.80	3.506	20.00	3.28	3.51	1.57	1.67	8.49	3.53	3.61	3.531	25.63	54.12	JL.Pekenden
226	19.78	6764.58	2.848	6.13	2.85	2.80	1.38	1.64	9.44	2.86	3.11	3.006	56.43	72.00	
227	30.24	6794.82	2.850	6.10	2.86	2.81	1.43	1.65	10.39	2.86	3.02	2.924	16.70	33.19	
228	29.80	6824.62	2.938	5.90	2.98	3.12	1.49	1.72	10.35	2.91	3.00	2.961	8.07	24.32	
229	28.56	6853.18	2.992	6.64	3.03	2.94	1.51	1.74	9.26	3.02	3.09	3.020	11.48	27.38	
230	27.66	6880.84	3.048	1.36	3.01	3.00	1.11	1.75	14.07	3.10	3.15	3.038	10.27	25.70	

TABLE 1.1.4 (9/17)) LONGITUDINAL PROFILE

Semarang River(9/10)

LINE	DIS	ACCM. DIS	LEFT				CENTER							Total WIDTH	REMARKS
			Elevation	width	Backland	Dike Crown	Lowest	Water Level	Width	Dike Crown	Back Land	Elevation	width		
231	29.43	6910.27	3.106	7.45	3.08	3.04	1.57	1.78	8.93	3.09	3.13	3.037	11.85	28.23	
232	29.56	6939.83	3.171	5.67	3.14	3.09	1.59	1.79	10.87	3.11	3.16	3.023	10.52	27.06	
233	29.27	6969.10	3.081	7.41	3.09	3.08	1.76	1.89	9.70	3.06	3.08	3.058	13.36	30.47	
234	29.61	6998.71	3.130	8.24	3.13	3.12	1.73	1.96	9.48	3.12	3.22	3.094	10.71	28.43	
235	29.84	7028.55	3.106	7.53	3.13	3.05	1.69	2.00	9.69	3.11	3.19	3.097	10.32	27.54	
235+24	24.35	7052.90	3.281	20.00	3.43	3.66	1.73	2.06	10.98	3.98	3.88	3.473	20.00	50.98	Bridge(Water)
236	6.75	7059.65	3.186	15.20	3.15	3.14	1.72	2.00	9.26	3.21	3.21	3.183	7.41	31.87	
237	30.21	7089.86	3.261	14.66	3.30	3.19	1.79	2.01	9.87	3.34	3.34	3.289	5.15	29.68	
238	30.36	7120.22	3.335	5.45	3.39	3.31	1.82	2.03	9.86	3.68	3.30	3.358	5.29	20.60	
239	29.81	7150.03	3.321	5.12	3.29	3.29	1.80	2.05	9.91	3.49	3.51	3.432	4.70	19.73	
240	29.51	7179.54	3.511	0.77	3.41	3.36	1.84	2.02	17.35	3.50	3.52	3.525	0.96	19.08	
241	29.92	7209.46	3.716	5.33	3.63	3.57	1.63	2.04	7.87	3.61	3.73	3.512	46.70	59.90	
241+13	13.85	7223.31	4.116	47.09	4.17	4.01	1.32	1.92	7.11	4.11	4.23	4.113	46.24	100.44	Tugu Muda
242	8.41	7231.72	*	*	*	*	*	*	*	*	*	*	*	*	
242+20	49.39	7281.11	4.566	11.80	4.30	4.79	1.47	2.13	12.93	4.79	4.46	4.984	16.52	41.25	Tugu Muda
243	30.45	7311.56	4.978	34.00	4.61	4.97	2.03	2.14	16.23	5.33	4.84	5.027	21.34	71.57	
244	52.10	7363.66	4.831	28.74	4.76	4.86	1.79	2.22	16.40	4.85	4.59	4.827	35.06	80.20	Bridge
245	47.58	7411.24	4.712	27.51	4.55	3.83	2.65	2.94	9.32	3.90	4.74	4.572	23.17	60.00	
245+28	28.84	7440.08	4.847	36.73	4.39	5.01	*	*	14.97	5.18	4.60	4.906	23.17	74.87	Bridge
246	22.03	7462.11	4.649	22.31	4.75	5.00	2.84	3.01	16.06	5.03	4.78	5.186	15.51	53.88	
247	49.90	7512.01	4.823	37.40	4.86	5.23	2.88	3.10	14.96	5.34	5.41	4.523	17.28	69.64	
248	49.92	7561.93	4.925	38.69	4.86	5.26	3.01	3.19	15.71	6.78	9.90	6.783	6.11	60.51	
248+17	16.36	7578.29	4.666	27.23	4.33	4.74	3.04	3.16	16.27	4.88	9.43	4.962	11.28	54.78	JL.Wonosari
249	30.11	7608.40	4.937	46.53	4.96	5.34	3.32	3.46	21.84	4.87	4.89	4.873	0.52	68.89	
249+24	23.89	7632.29	4.857	26.90	4.50	4.55	3.30	3.45	24.48	4.70	7.73	4.672	21.53	72.91	JL.Wonosari
250	24.64	7656.93	5.018	37.64	4.85	4.77	3.37	3.53	28.31	4.82	4.44	4.264	31.73	97.68	
250+27	33.09	7690.02	4.837	26.49	4.67	4.94	3.30	3.60	35.40	5.05	6.27	5.051	13.20	75.09	JL.Wonosari
251	20.74	7710.76	4.933	24.85	4.98	5.11	3.25	3.62	29.61	4.91	4.51	4.457	3.72	58.18	
251+21	21.75	7732.51	5.040	36.60	4.08	4.61	2.89	3.14	27.01	4.63	4.81	5.007	20.82	84.43	JL.Wonosari
252	37.60	7770.11	5.244	35.27	5.14	5.10	3.58	3.68	30.68	4.67	4.35	4.354	0.84	66.79	
252+42	39.40	7809.51	5.210	29.09	4.90	5.12	3.65	3.77	32.31	4.98	4.63	5.068	51.55	112.95	JL.Wonosari

TABLE 1.1.4 (10/17) LONGITUDINAL PROFILE

Semarang River (10/10)

LINE	DIS	ACCM. DIS	LEFT				CENTER							Total WIDTH	REMARKS
			Elevation	width	Backland	Dike Crown	Lowest	Water Level	Width	Dike Crown	Back Land	Elevation	width		
253	12.81	7822.32	5.491	33.88	5.33	5.49	3.64	3.84	31.21	4.35	4.11	4.353	2.55	67.64	
253+36	39.89	7862.21	5.523	26.12	4.86	5.35	3.69	3.94	24.92	5.07	4.44	5.077	46.06	97.10	JL.Wonosari
254	8.08	7870.29	5.767	42.13	5.59	5.76	3.77	3.97	22.66	4.37	4.56	4.379	26.14	90.93	
255	51.59	7921.88	5.961	28.10	5.77	6.23	3.84	4.07	23.08	4.62	4.60	4.621	0.76	51.94	
256	48.80	7970.68	6.066	27.65	5.88	6.07	3.33	4.06	46.87	5.31	5.46	5.319	18.00	92.52	
256+16	15.64	7986.32	5.882	32.35	3.66	5.64	4.07	4.27	41.33	5.76	5.35	5.762	25.98	99.66	Bridge
256+24	8.68	7995.00	6.318	41.84	5.64	6.93	3.88	4.44	49.54	6.44	5.79	6.057	17.00	108.38	Water Guate
257	36.38	8031.38	6.573	29.23	6.33	5.91	4.11	4.48	43.33	6.03	6.51	6.452	21.41	93.97	
258	56.26	8087.64	6.896	35.33	6.67	7.52	4.26	4.47	34.10	6.97	7.01	6.969	14.88	84.31	
258+28	31.18	8118.82	7.066	36.39	6.98	6.98	4.30	4.44	13.92	7.12	7.00	7.142	39.51	89.82	JL.Sutomo
259	19.76	8138.58	5.736	0.98	5.51	5.58	4.16	4.51	11.31	6.60	6.39	6.503	33.92	46.21	
260	50.26	8188.84	5.521	0.88	5.39	5.81	4.17	4.56	8.59	6.11	6.94	5.681	27.24	36.71	
261	49.05	8237.89	6.580	14.27	6.51	6.51	4.08	4.54	10.00	6.27	7.06	6.420	23.95	48.22	
261+30	30.88	8268.77	5.856	22.27	4.28	5.38	3.35	4.63	15.90	6.00	6.23	5.937	12.15	50.32	River
261+37	7.33	8276.10	*	0.00	*	*	3.36	4.57	0.00	6.34	6.31	5.927	47.98	47.98	River
262	12.59	8288.69	5.212	1.38	5.72	5.21	3.81	4.75	10.78	5.36	6.40	5.771	22.45	34.61	
262+41	40.94	8329.63	*	1.38	5.78	4.54	3.08	4.54	0.00	5.50	3.92	5.501	55.86	57.24	Siphon
263	26.68	8356.31	5.416	2.61	5.36	5.49	3.98	4.54	12.19	5.70	6.12	5.802	3.53	18.33	
264	47.98	8404.29	5.629	20.83	5.93	5.65	4.42	4.62	11.35	6.51	6.67	6.712	1.34	33.52	
265	51.11	8455.40	5.300	4.01	5.35	5.19	4.44	4.71	9.92	5.39	5.55	5.396	0.58	14.51	
266	52.08	8507.48	5.376	1.63	5.39	5.26	4.62	4.87	13.25	5.72	5.79	5.544	28.67	43.55	
267	52.53	8560.01	5.644	1.56	5.66	5.53	4.63	4.87	12.33	5.96	6.06	5.898	13.33	27.22	
268	50.47	8610.48	5.890	4.86	7.35	6.36	4.59	4.90	15.98	6.60	6.60	5.882	2.11	22.95	
268+21	21.58	8632.06	9.861	28.05	8.65	9.63	3.87	4.85	31.16	9.82	9.48	9.660	42.46	101.67	JL.Bendungan
269	18.53	8650.59	8.521	44.48	5.63	8.52	3.81	4.86	20.20	8.41	7.69	8.602	44.85	109.53	Guate(West Flood Way)

TABLE 1.1.4 (11/17) LONGITUDINAL PROFILE

Asin River (1/3)

LINE	DIS	ACCM. DIS	LEFT				CENTER							Total WIDTH
			Elevation	width	Backland	Dike Crown	Lowest	Water Level	Width	Dike Crown	Back Land	Elevation	width	
0	0.00	0.00	0.890	20.00	0.57	0.91	-1.42	-0.54	23.32	*	*	0.097	21.66	64.98
1	18.52	18.52	0.778	20.00	0.57	0.81	-1.59	-0.59	24.18	*	0.12	0.192	17.83	62.01
2	20.80	39.31	0.761	20.00	0.44	0.71	-1.65	-0.52	23.03	*	0.21	0.263	20.00	63.03
3	19.38	58.69	0.784	20.00	0.79	0.72	-1.62	-0.50	22.85	*	0.30	0.307	20.00	62.85
4	20.51	79.20	0.780	20.00	0.32	0.74	-1.93	-0.36	22.30	*	0.25	0.311	20.00	62.30
5	19.60	98.80	0.765	20.00	0.40	0.71	-1.92	-0.36	21.53	*	0.36	0.308	20.00	61.53
6	19.68	118.48	0.742	20.00	0.67	0.65	-2.31	-0.42	21.42	*	0.76	0.251	20.00	61.42
7	19.81	138.29	0.760	20.00	0.60	0.65	-1.86	-0.51	23.01	*	0.88	0.249	23.81	66.82
8	20.18	158.47	0.679	20.00	0.16	0.61	-1.62	-0.53	23.72	*	0.98	0.890	20.54	64.26
9	19.70	178.16	0.702	21.97	0.09	0.65	-1.85	-0.56	24.87	*	0.75	1.279	18.33	65.17
10	20.07	198.23	0.834	23.34	-0.40	0.77	-2.82	-0.20	24.09	*	0.74	1.439	17.10	64.53
11	20.46	218.69	0.828	23.82	-0.70	0.76	-1.83	-0.58	24.90	*	1.16	1.290	22.56	71.28
12	19.89	238.59	0.739	25.53	0.04	0.63	-1.89	-0.65	25.04	*	1.31	1.250	22.37	72.94
13	20.20	258.79	0.753	25.00	-0.05	0.65	-1.87	-0.62	25.13	*	1.01	1.207	20.00	70.13
14	19.79	278.58	0.849	22.59	-0.19	0.74	-1.92	-0.55	25.05	*	0.88	1.176	16.50	64.14
15	20.10	298.68	0.838	31.77	-0.52	0.72	-2.56	-0.54	24.98	*	0.94	1.200	20.02	76.77
16	20.03	318.71	0.784	32.86	-0.43	0.73	-2.19	-0.48	25.04	*	1.03	1.179	20.00	77.90
17	19.64	338.35	0.972	32.63	-0.25	0.73	-2.30	-0.50	25.33	*	0.66	1.020	19.00	76.96
18	20.15	358.50	0.838	22.88	-0.04	0.72	-2.26	-0.39	25.06	*	0.17	0.993	18.98	66.92
19	20.44	378.94	0.606	32.17	0.36	*	-2.43	-0.73	24.79	*	0.14	0.620	25.52	82.48
20	20.22	399.16	0.979	20.00	0.35	0.75	-2.93	-0.22	20.73	*	0.42	0.881	20.71	61.44
21	20.25	419.41	0.981	20.00	0.52	0.83	-2.37	-0.59	21.84	*	0.03	0.511	22.10	63.94
22	19.29	438.69	0.752	20.00	0.66	0.83	-1.98	-0.62	22.65	*	0.19	0.550	20.00	62.65
23	20.31	459.01	0.783	20.00	0.11	0.73	-2.81	-0.57	21.07	*	0.27	0.526	21.09	62.16

TABLE 1.1.4 (12/17) LONGITUDINAL PROFILE

Asin River (2/3)

LINE	DIS	ACCM. DIS	LEFT				CENTER							Total WIDTH
			Elevation	width	Backland	Dike Crown	Lowest	Water Level	Width	Dike Crown	Back Land	Elevation	width	
24	19.94	478.94	1.053	20.00	0.02	0.85	-2.09	-0.60	20.84	*	0.40	0.526	16.14	56.98
25	20.12	499.07	0.991	20.00	0.24	0.84	-1.91	-0.60	20.74	*	0.07	0.621	15.94	56.68
26	19.96	519.03	0.972	20.00	0.04	0.86	-2.19	-0.62	20.91	*	0.30	0.560	20.24	61.15
27	20.16	539.19	0.834	20.00	-0.37	0.77	-2.05	-0.57	20.82	*	0.19	0.549	21.52	62.34
28	19.64	558.83	0.771	20.00	0.44	0.77	-2.12	-0.54	20.87	*	0.31	0.544	22.11	62.98
29	20.01	578.84	0.761	20.00	0.34	0.80	-2.22	-0.59	20.65	*	0.37	0.518	25.90	66.55
30	19.88	598.72	0.776	20.00	0.64	0.78	-2.07	-0.38	19.00	*	0.68	0.863	22.08	61.08
31	20.28	619.00	0.194	21.24	0.02	0.75	-3.36	-0.65	20.00	*	0.26	0.560	22.73	63.97
32	20.20	639.20	0.879	20.00	0.05	0.88	-1.90	-0.58	21.84	*	0.00	0.574	25.65	67.49
33	19.93	659.13	0.931	20.00	0.38	0.93	-1.99	-0.61	20.96	*	-0.16	0.548	25.19	66.15
34	19.82	678.96	0.825	20.00	-0.22	0.82	-1.88	-0.75	21.16	*	-0.30	0.571	20.60	61.76
35	19.91	698.87	0.676	20.00	0.36	0.93	-1.96	-0.75	20.99	*	0.25	0.572	24.96	65.95
36	20.26	719.13	0.621	20.00	-0.01	0.98	-2.06	-0.84	20.90	*	0.31	0.560	27.99	68.89
37	20.30	739.43	0.627	20.00	0.08	1.01	-1.79	-0.62	20.98	*	0.38	0.556	21.39	62.37
38	19.63	759.07	0.646	20.00	0.24	1.04	-1.84	-0.70	20.68	*	0.47	0.517	23.29	63.97
39	19.90	778.96	0.650	20.00	0.45	0.82	-1.86	-0.62	20.71	*	0.47	0.519	18.84	59.55
40	20.03	798.99	0.758	20.00	-0.37	0.85	-2.69	-0.20	19.84	*	0.51	0.786	19.81	59.65
40+14	14.42	813.41	0.265	27.97	0.13	*	-2.14	-0.71	12.02	*	0.08	0.426	33.15	73.14
41	5.70	819.11	0.090	29.06	-0.02	0.38	-2.26	-0.57	22.06	*	0.10	0.633	33.21	84.33
42	19.77	838.89	0.251	20.00	-0.27	0.78	-3.42	-0.45	21.30	*	0.17	0.656	24.52	65.82
43	19.89	858.78	0.512	20.00	-0.02	0.51	-2.44	-0.53	21.43	*	0.34	0.546	28.83	70.26
44	19.91	878.68	0.480	20.00	0.32	0.48	-2.43	-0.48	22.14	*	0.80	0.560	26.52	68.66
45	20.11	898.79	0.525	20.00	0.00	0.53	-3.29	-0.32	22.99	*	0.19	0.572	20.01	63.00
46	20.16	918.94	0.547	20.00	0.04	0.55	-2.05	-0.17	23.88	*	0.18	0.507	24.54	68.42

TABLE 1.1.4 (13/17) LONGITUDINAL PROFILE

Asin River (3/3)

LINE	DIS	ACCM. DIS	LEFT				CENTER							Total WIDTH
			Elevation	width	Backland	Dike Crown	Lowest	Water Level	Width	Dike Crown	Back Land	Elevation	width	
47	19.99	938.94	0.424	20.00	0.06	0.42	-2.53	-0.18	23.30	*	0.11	0.474	10.00	53.30
48	20.29	959.23	0.382	20.00	0.06	0.38	-2.75	-0.19	23.65	*	0.19	0.500	20.00	63.65
49	20.10	979.34	0.355	32.66	0.04	0.36	-2.40	-0.42	24.41	*	-0.03	0.564	10.00	67.07
49+13	13.21	992.54	0.121	23.29	*	*	-2.30	-0.74	26.76	*	0.35	0.448	20.00	70.05
50	6.48	999.02	0.232	23.42	0.06	*	-2.77	-0.30	24.21	*	0.36	0.449	20.00	67.63
51	20.06	1019.08	0.526	20.00	0.20	*	-2.24	-0.27	23.72	*	1.26	0.523	25.11	68.83
52	20.47	1039.56	0.337	20.00	0.61	*	-2.80	-0.31	23.54	*	0.24	0.580	22.08	65.62
53	19.92	1059.47	0.434	20.00	0.05	*	-2.19	-0.12	23.55	*	0.23	0.568	24.57	68.12
54	20.12	1079.59	0.344	20.39	0.31	*	-2.71	-0.25	23.52	*	0.15	0.605	25.59	69.50
55	19.76	1099.35	0.234	20.00	-0.43	*	-2.69	-0.22	23.41	*	-0.38	0.616	29.36	72.77
56	20.09	1119.44	0.361	20.00	0.05	*	-2.74	-0.19	23.73	*	0.17	0.616	32.70	76.43
57	20.11	1139.56	0.470	20.00	0.24	*	-2.60	-0.45	23.34	*	0.05	0.766	25.52	68.86
58	19.84	1159.40	0.474	28.69	0.03	*	-1.75	-0.15	11.26	*	0.18	0.395	26.29	66.24
58+5	5.92	1165.32	0.400	30.75	0.04	*	-1.17	-0.71	7.83	*	0.14	0.537	32.24	70.82
59	16.36	1181.68	0.367	20.00	0.44	*	-1.30	-0.55	9.11	*	0.03	-0.013	20.00	49.11
60	20.39	1202.07	0.326	20.00	0.32	*	-1.22	-0.84	8.40	*	0.25	0.248	20.00	48.40
61	20.07	1222.14	0.317	20.00	0.32	*	-1.19	-0.58	8.49	*	0.30	0.274	20.00	48.49
62	20.01	1242.15	0.322	20.00	0.21	*	-1.63	-0.51	8.86	*	0.30	0.264	20.00	48.86
63	20.67	1262.83	0.329	20.00	0.40	*	-1.07	-0.36	6.37	*	0.32	2.888	20.00	46.37
64A	16.93	1279.76	0.518	20.84	0.40	*	-0.92	-0.28	5.55	*	0.24	0.486	18.48	44.87
65A	19.58	1299.34	-0.010	20.00	-0.02	*	-1.44	-0.48	4.08	*	-0.13	-0.063	21.23	45.31
66A	19.20	1318.54	-0.001	20.00	-0.12	*	-1.08	-0.45	3.49	*	-0.20	*	16.51	40.00

TABLE 1.1.4 (14/17) LONGITUDINAL PROFILE

Baru River(1/4)

LINE	DIS	ACCM. DIS	LEFT				CENTER							Tatal WIDTH
			Elevation	width	Backland	Dike Crown	Lowest	Water Level	Width	Dike Crown	Back Land	Elevation	width	
BALBP	0.00	0.00	0.872	29.31	0.32	0.30	-3.94	-0.34	83.44	0.78	0.87	0.872	20.00	132.75
1	18.82	18.82	0.203	41.72	0.31	0.36	-4.24	-0.39	69.92	0.77	0.86	0.861	28.48	140.12
2	20.81	39.64	0.161	20.00	0.35	0.31	-4.20	-0.54	71.85	0.81	1.05	1.052	34.55	126.40
3	20.83	60.47	0.375	27.62	0.43	0.31	-4.15	-0.55	65.40	0.83	1.09	1.034	26.75	119.77
4	19.84	80.31	0.194	24.29	0.37	0.34	-4.07	-0.41	59.16	0.83	1.08	1.116	17.71	101.16
5	21.85	102.16	0.191	20.00	0.04	0.33	-4.52	-0.57	52.19	0.60	1.11	0.920	24.43	96.62
6	17.86	120.02	0.190	22.89	-0.21	0.31	-4.31	-0.72	46.27	0.51	1.02	0.893	24.71	93.87
7	27.84	147.86	0.170	20.00	0.49	0.33	-4.06	-0.60	40.96	0.44	1.05	0.908	14.37	75.33
8	19.26	167.11	0.160	26.04	-0.46	0.32	-4.02	-0.50	41.29	0.51	1.13	0.902	23.48	90.81
9	20.98	188.10	0.158	25.66	0.05	0.30	-4.20	-0.20	41.88	0.50	1.02	0.920	20.25	87.79
10	19.63	207.73	0.386	19.68	-0.20	0.31	-5.59	-0.12	64.29	0.51	1.05	1.206	20.27	104.24
11	19.70	227.43	0.199	20.00	0.42	0.35	-3.88	-0.65	40.57	0.49	0.93	0.925	24.87	85.44
12	20.41	247.84	0.232	22.15	-0.40	0.31	-3.71	-0.44	28.71	0.45	0.87	0.863	24.09	74.95
13	20.73	268.57	0.151	22.18	-0.30	0.27	-4.33	-0.25	28.65	0.39	0.98	0.822	27.18	78.01
14	19.25	287.82	0.149	22.13	-0.20	0.24	-4.37	-0.47	28.69	0.39	1.04	0.814	25.29	76.11
15	18.48	306.30	0.125	22.00	-0.16	0.23	-5.01	-0.27	28.87	0.39	1.02	0.827	21.19	72.06
16	21.49	327.79	0.191	21.47	-0.23	0.31	-3.34	-0.66	28.62	0.44	0.31	0.823	20.72	70.81
17	20.01	347.80	0.130	20.00	0.26	0.28	-3.38	-0.45	28.45	0.41	-0.14	0.809	20.00	68.45
18	19.73	367.54	0.177	20.00	0.27	0.29	-4.87	-0.38	28.49	0.39	1.25	0.804	19.70	68.19
19	19.97	387.51	0.143	20.00	0.02	0.30	-3.07	-0.76	28.52	0.39	0.98	0.815	20.06	68.58
20	20.06	407.57	0.319	20.00	-0.02	0.34	-4.74	-0.49	55.60	0.42	0.22	1.258	20.00	95.60
21	20.35	427.92	0.139	23.37	0.23	0.34	-3.21	-0.76	28.15	0.37	-0.21	0.811	20.20	71.72
22	20.79	448.71	0.106	44.66	-0.59	0.28	-2.77	-0.79	28.16	0.37	0.41	0.838	20.03	92.85
23	19.21	467.92	0.092	21.16	-0.58	0.28	-2.35	-0.75	28.20	0.39	0.09	0.821	24.44	73.80

TABLE 1.1.4 (15/17) LONGITUDINAL PROFILE

Baru River(2/4)

LINE	DIS	ACCM. DIS	LEFT				CENTER							Tatal WIDTH
			Elevation	width	Backland	Dike Crown	Lowest	Water Level	Width	Dike Crown	Back Land	Elevation	width	
24	20.33	488.25	0.113	20.00	0.03	0.30	-2.12	-0.79	28.37	0.35	0.15	0.833	22.23	70.60
25	18.78	507.02	0.118	20.00	-0.14	0.30	-3.21	-0.62	28.30	0.38	0.94	0.840	26.31	74.61
26	21.34	528.36	0.101	20.00	0.44	0.30	-2.09	-0.76	28.54	0.37	0.32	0.810	19.59	68.13
27	19.93	548.29	0.073	20.00	-0.08	0.31	-2.01	-0.70	28.26	0.38	1.05	0.820	21.46	69.72
28	20.29	568.58	0.856	20.00	0.54	1.03	-2.09	-0.61	31.60	1.06	0.26	0.945	20.00	71.60
29	19.33	587.91	1.887	20.00	1.52	2.37	-2.25	-0.53	32.67	2.21	0.25	1.757	20.00	72.67
29+8	8.40	596.31	2.046	27.22	1.90		-3.68	-0.45	33.22	1.90	0.04	1.957	22.73	83.17
30	12.22	608.53	0.314	24.44	0.89	1.68	-3.03	-0.44	26.76	1.85	-0.52	-0.028	20.00	71.20
31	17.44	625.97	-0.077	24.96	-0.30		-1.91	-0.44	31.63		-0.02	-0.021	21.43	78.02
32	17.86	643.83	-0.118	41.98	2.30	2.63	-2.04	-0.54	28.48		0.13	-0.084	17.20	87.66
32+11	7.79	651.63	2.876	19.10	2.64		-3.33	-0.49	54.95		2.55	2.786	19.94	93.99
33	17.83	669.46	-0.046	21.73	0.07		-1.95	-0.64	36.70	3.58	2.52	-0.159	20.00	78.43
34	23.57	693.03	0.220	20.58	0.01		-1.92	-0.72	38.23	0.81	0.11	0.421	27.67	86.48
35	20.53	713.56	0.204	20.00	0.54		-1.88	-0.73	37.94	0.80	0.33	0.273	20.00	77.94
36	19.72	733.28	0.357	20.00	0.45		-1.94	-0.76	37.68	0.66	0.06	0.228	20.00	77.68
37	20.31	753.58	-0.165	20.00	0.13		-2.03	-0.73	40.21	0.63	-0.06	0.143	20.00	80.21
38	19.97	773.55	-0.137	20.00	-0.14		-1.92	-0.77	40.70	0.63	-0.25	0.115	26.47	87.17
39	21.50	795.05	-0.017	20.00	-0.14		-1.79	-0.77	57.55	0.56	-0.06	0.101	20.00	97.55
40	19.69	814.74	-0.031	20.00	-0.10		-4.30	-0.59	55.99	0.59	-0.13	0.215	23.04	99.03
41	19.92	834.66	0.033	23.20	-0.16		-1.88	-0.54	57.95	0.62	-0.18	0.044	24.76	105.91
42	21.31	855.97	0.097	20.00	0.19		-1.90	-0.51	66.94	0.56	-0.14	0.059	24.80	111.74
43	21.03	877.00	0.130	21.26	-0.13		-1.91	-0.42	62.51	0.59	0.07	0.073	20.00	103.77
44	20.86	897.86	0.389	21.66	-0.32		-1.81	-0.39	53.02	0.60	-0.49	-0.070	20.00	94.68
45	21.00	918.86	0.311	20.00	0.18		-1.85	-0.43	41.04	0.60	-0.11	0.172	22.75	83.79

TABLE 1.1.4 (16/17) LONGITUDINAL PROFILE

Baru River(3/4)

LINE	DIS	ACCM. DIS	LEFT				CENTER							Tatal WIDTH
			Elevation	width	Backland	Dike Crown	Lowest	Water Level	Width	Dike Crown	Back Land	Elevation	width	
46	19.63	938.49	0.016	20.00	-0.02		-1.77	-0.51	44.60		0.45	0.180	20.00	84.60
47	20.56	959.05	0.264	28.27	-0.11		-1.80	-0.50	54.42		0.71	0.386	20.00	102.69
48	19.28	978.33	0.097	27.28	-0.12		-1.85	-0.60	52.53		-0.16	0.366	21.39	101.20
49	20.10	998.43	0.692	20.00	-0.14		-1.73	-0.67	54.56		0.06	0.295	20.00	94.56
50	21.46	1019.89	-0.080	20.00	-0.24		-3.32	-0.68	40.70		-0.10	0.352	20.67	81.37
51	20.46	1040.35	0.330	21.60	-0.37		-1.49	-0.80	55.13		-0.38	0.415	20.00	96.73
52	21.57	1061.92	-0.090	27.31	-0.27		-1.50	-0.75	37.26		-0.43	0.661	20.00	84.57
53	20.81	1082.73	-0.104	20.00	-0.28		-1.64	-0.76	33.23		0.33	0.232	20.00	73.23
54	20.64	1103.37	-0.231	20.00	-0.18		-1.67	-0.82	39.45	0.30	0.44	0.265	20.00	79.45
55	21.63	1125.00	-0.144	20.00	-0.16		-3.09	-0.32	39.34	0.25	0.39	0.510	14.00	73.34
56	20.00	1144.99	0.124	20.00	-0.02		-1.75	-0.81	49.78		0.68	0.636	20.00	89.78
57	18.87	1163.86	0.226	20.00	0.13		-1.84	-0.79	51.37	0.39	0.59	0.572	20.00	91.37
58	20.77	1184.63	0.010	20.00	0.00		-1.87	-0.69	37.65	0.36	0.29	0.421	20.00	77.65
59	20.87	1205.50	0.381	20.00	0.32		-1.85	-0.51	45.38	-0.25	0.43	0.241	20.00	85.38
60	22.11	1227.61	0.152	22.34	0.04		-1.91	-0.61	27.25	-0.11	0.42	0.242	20.00	69.59
61	19.32	1246.93	0.388	22.56	0.38		-2.26	-0.37	27.82		0.35	0.393	20.00	70.38
62	20.34	1267.27	0.173	26.92	0.10		-1.86	-0.68	29.77	0.17	0.34	0.338	12.43	69.12
63	19.69	1286.96	0.128	20.00	0.22		-2.91	-0.52	30.48	-0.22	0.08	0.277	20.00	70.48
64	19.64	1306.59	0.060	20.00	0.25		-2.87	-0.55	31.51	-0.26	0.05	0.271	20.00	71.51
65	19.92	1326.51	0.105	20.00	0.25		-2.72	-0.76	30.26	-0.31	0.50	0.244	20.00	70.26
66	21.41	1347.92	0.151	23.72	-0.02	-0.23	-2.85	-0.69	29.53	-0.30	0.08	0.229	20.00	73.25
67	19.17	1367.09	0.046	20.00	0.44	-0.22	-3.22	-0.81	29.77	-0.22	0.31	0.297	20.00	69.77
68	19.38	1386.47	0.130	20.00	0.30	-0.12	-2.39	-0.73	30.09	-0.23	0.47	0.338	9.07	59.16
69	20.27	1406.74	0.200	35.35	0.19	-0.11	-2.55	-0.75	30.38	-0.11	0.55	0.370	22.12	87.85

TABLE 1.1.4 (17/17) LONGITUDINAL PROFILE

Baru River(4/4)

LINE	DIS	ACCM. DIS	LEFT				CENTER							Tatal WIDTH
			Elevation	width	Backland	Dike Crown	Lowest	Water Level	Width	Dike Crown	Back Land	Elevation	width	
70	22.48	1429.21	0.162	26.89	0.31	-0.22	-3.11	-0.72	25.66	0.13	0.12	0.219	22.22	74.77
70+13	12.99	1442.20	0.695	11.31	0.43		-2.32	-0.36	26.39		0.80	0.778	17.39	55.09
71	7.57	1449.77	0.603	20.00	0.25	0.34	-1.66	-0.71	24.15	0.41	0.43	0.470	19.58	63.73
72	18.90	1468.67	0.124	20.00	0.12	0.12	-1.73	-0.68	6.54	0.21	0.21	0.205	20.00	46.54
73	20.41	1489.08	0.858	20.00	0.86	0.86	-1.50	-0.70	7.17	0.58	0.58	0.583	20.00	47.17
BALEP	9.72	1498.80	0.664	0.00	0.53		-0.69	-0.62	14.45		0.61	0.619	21.90	36.35

TABLE 2.1.1 (1/42) BORING LOG DB1 (1/2)

PT. Geo ACE
Jln. Pajajaran no. 125
BANDUNG, INDONESIA

SOIL MECHANICS SURVEY FOR THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

BORING LOG

Bore Hole : DB - 1 Sheet : 1 of 2	Ground Water Level (GWL) : meter	Date	: 26 - 9 - 1995 to 27 - 9 - 1997
Location : URBAN DRAINAGE	Coordinate : x = y =	Drilled by	: Ade K. & Kosasih
Boring Depth : 30.00 meter	Angle : Bearing :	Logged by	: Rudy Mulranto
Elevation : +0.430 meter	Drilling Machine : YBM - 3ES	Supervisor	:

CLASSIFICATION AND DESCRIPTION OF MATERIAL

1	2	3	4	5	6	7	8	9	12	13	14	15	16	17	18	19	20		
Date	Scale	Elevation	Stratum Thickness	Depth(m)	Soil Profile	Classification	G.W.L	DESCRIPTION	Standard Penetration Test: N - Value, Number of Blows per 30 Cm Penetration (0 10 20 30 40 50)	Geological Strata	Method of Sampling	Specific Gravity	Water Content (%)	Unit Weight (t/m3)	Void Ratio, e	Atterberg Limits: Plastic Limit (%), Plasticity Index (%), Liquid Limit (%) (0 40 80 120 160)	Strength Test: Type	Angle internal friction (°)	Cohesion (kg/cm²)
26 SEPTEMBER 1997				0.35		SW		0.00 - 0.35 m: GRAVELY SAND, brown, fine to medium grained, wwell graded, medium dense. Gravels: diameter up to 3.00 cm.	0/30	B									
								0.35 - 25.00 m: SANDY CLAY, brown, high plasticity, very soft to soft, moist; become stiff in 18.00 m depth.	0/30			2.745	90.060	1.506	2.466	28• 74 101			
						CH			0/30										
									0/30										
									0/30										
									0/30										
									0/30										
									3/30			2.560	72.630	1.565	1.803	24• 59 83	UU	2.035	0.036
									0/30										
									3/30										
									3/30										
									4/30										

LEGEND: CORING SPT UDS

TABLE 2.1.1 (2/42) BORING LOG DB1 (2/2)

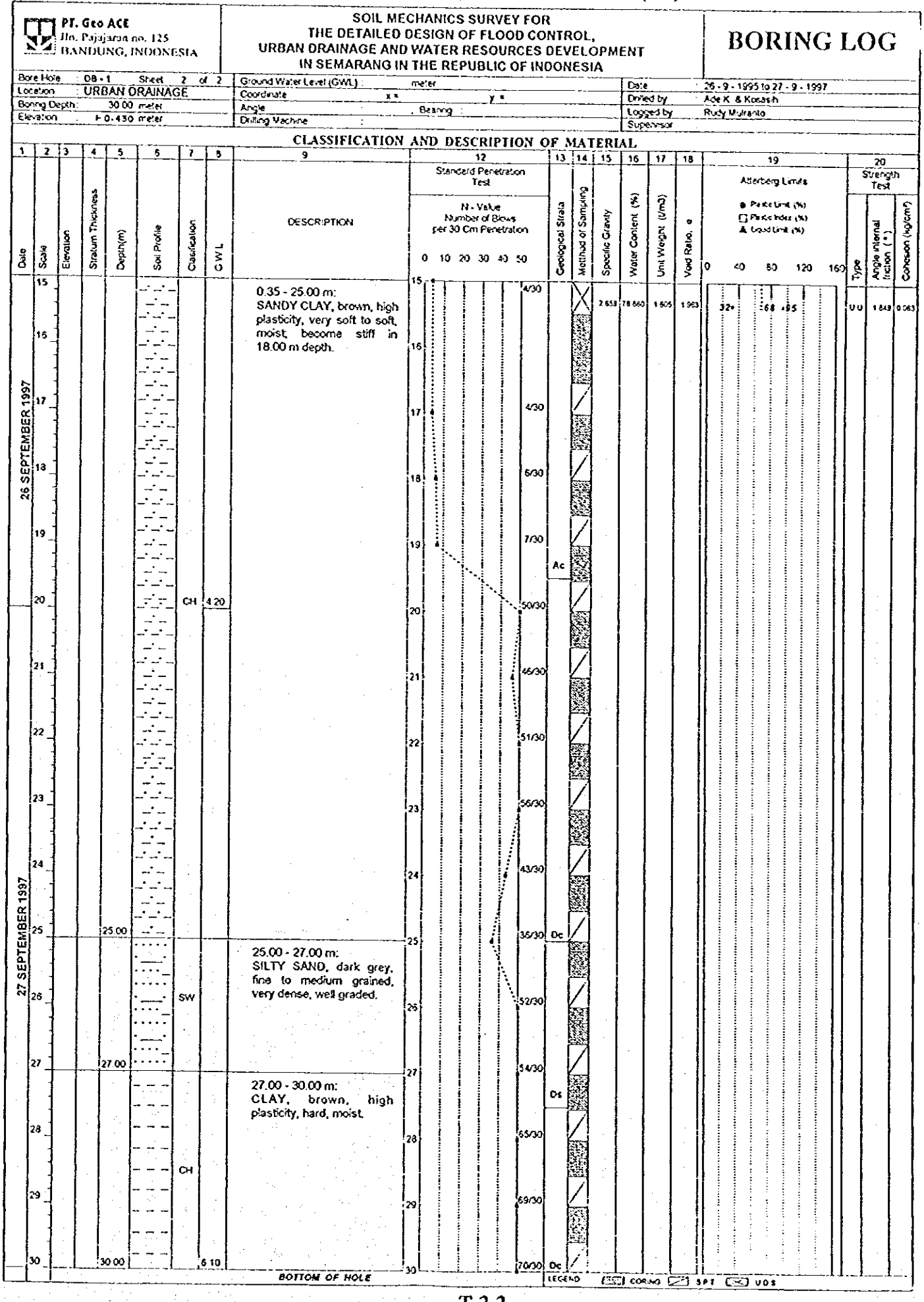


TABLE 2.1.1 (3/42) BORING LOG DB2 (1/2)

PT. Geo ACE
Jln. Pajajaran no. 125
BANDUNG, INDONESIA

SOIL MECHANICS SURVEY FOR
THE DETAILED DESIGN OF FLOOD CONTROL,
URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT
IN SEMARANG IN THE REPUBLIC OF INDONESIA

BORING LOG

Bore Hole : DB - 2 Sheet 1 of 2	Ground Water Level (GWL) : meter	Date : 23 - 9 - 1997 to 24 - 9 - 1997
Location : URBAN DRAINAGE	Coordinate : x = y =	Drilled by : Ade K. & Kousih
Boring Depth : 30.00 meter	Angle : Bearing	Logged by : Rudy Mukanto
Elevation : +0.420 meter	Drilling Machine : YBM - 3ES	Supervisor :

CLASSIFICATION AND DESCRIPTION OF MATERIAL

1	2	3	4	5	6	7	8	9	12	13	14	15	16	17	18	19	20
Date	Scale	Elevation	Stratum Thickness	Depth(m)	Soil Profile	Classification	G W L	DESCRIPTION	Standard Penetration Test: N - Value, Number of Blows per 30 Cm Penetration (0 10 20 30 40 50)	Geological Strata	Method of Sampling	Specific Gravity	Water Content (%)	Unit Weight (t/m3)	Void Ratio, e	Atterberg Limits: Plastic Limit (%), Phase Index (%), Liquid Limit (%) (0 40 80 120 160)	Strength Test: Type, Angle internal friction (°), Cohesion (kg/cm²)
23 SEPTEMBER 1997	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15			0.17		SP CH		0.00 - 0.17 m: CLAYEY SAND, yellowish brown, fine to medium grained, poorly graded, loose. 0.17 - 20.00 m: SANDY CLAY, grey, high plasticity, very soft, moist; occationally mollusca shellsw in 15.00 m depth.	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 4/30 0/30 3/30 3/30 0/30 0/30 0/30 0/30 0/30 0/30 0/30 0/30 0/30 0/30 3/30	B		2.741 2.743	71.270 53.520	1.513 1.520	2.103 2.485	35 39	VU 2.367 0.013

LEGEND: CORING SPT UDS

TABLE 2.1.1 (4/42) BORING LOG DB2 (2/2)

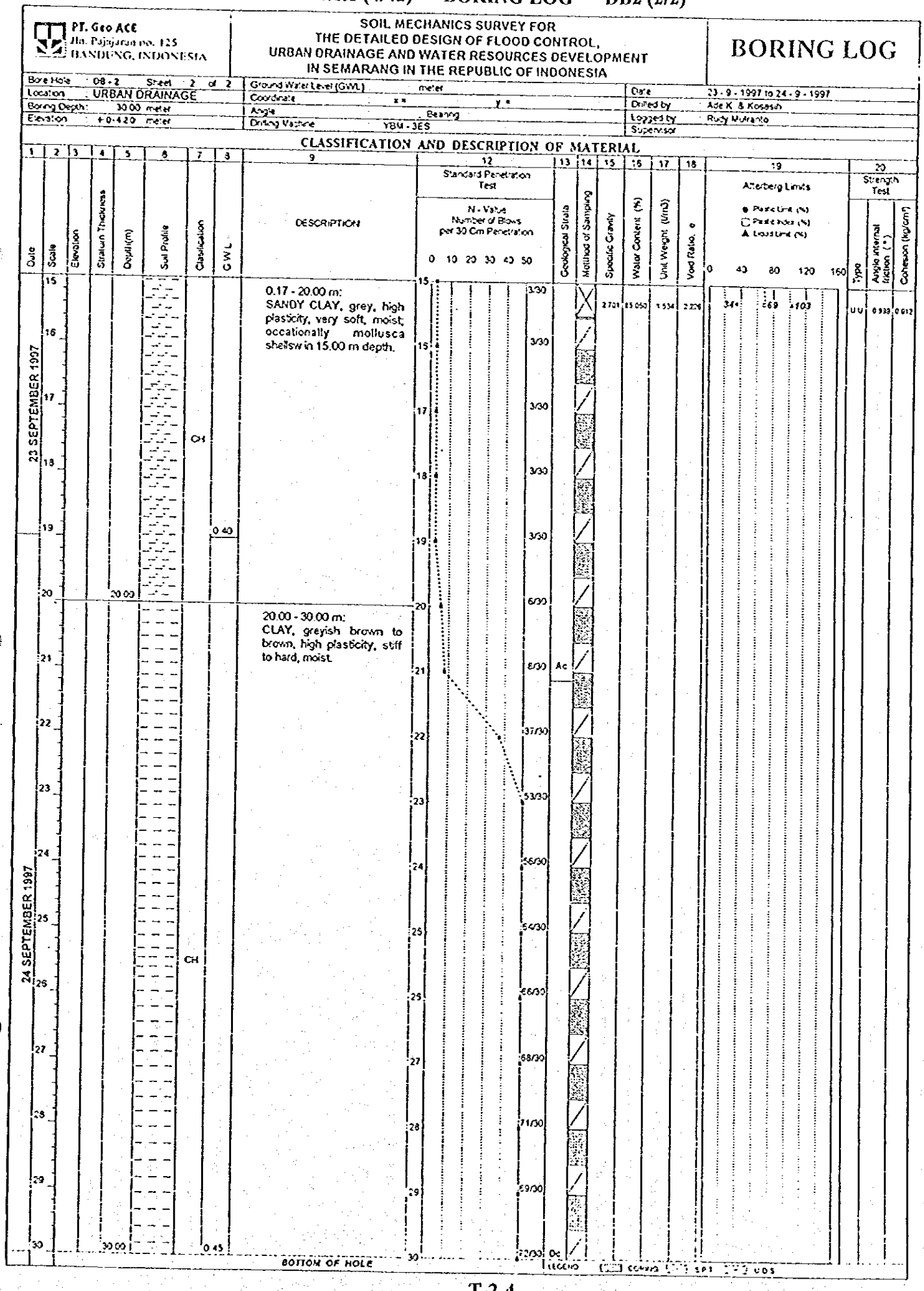


TABLE 2.1.1 (5/42) BORING LOG DB3 (1/2)

PT. Geo ACE
Jln. Pajajaran no. 125
BANDUNG, INDONESIA

SOIL MECHANICS SURVEY FOR
THE DETAILED DESIGN OF FLOOD CONTROL,
URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT
IN SEMARANG IN THE REPUBLIC OF INDONESIA

BORING LOG

Bore Hole : DB - 3 Sheet 1 of 2	Ground Water Level (GWL) : meter	Date : 19 - 9 - 1997 to 21 - 9 - 1997
Location : URBAN DRAINAGE	Coordinate : x = y =	Drilled by : Ade K. & Koesrin
Boring Depth : 30.00 meter	Angle : , Bearing :	Logged by : Rudy Mukanto
Elevation : + 0.230 meter	Drilling Machine : YBM - 3ES	Supervisor :

CLASSIFICATION AND DESCRIPTION OF MATERIAL

1	2	3	4	5	6	7	8	9	12	13	14	15	16	17	18	19	20		
Date	Scale	Elevation	Stratum Thickness	Depth(m)	Soil Profile	Classification	G.W.L	DESCRIPTION	Standard Penetration Test N - Value Number of Blows per 30 Cm Penetration 0 10 20 30 40 50	Geological Strata	Method of Sampling	Specific Gravity	Water Content (%)	Unit Weight (t/m3)	Void Ratio, e	Atterberg Limits ● Plastic Limit (%) □ Plastic Index (%) ▲ Liquid Limit (%) 0 40 80 120	Strength Test Type	Angle Internal Friction, (°)	Cohesion (kg/cm²)
19 SEPTEMBER 1997	0			0.55		GW		0.00 - 0.55 m: SANDY GRAVEL, sub rounded to angular, diameter up to 4.00 cm etaining wall).	0		B								
	1								1										
	2							0.55 - 6.30 m: CLAYEY SAND, grey to dark grey, very fine to medium grained, poorly graded, moderately dense.	2										
	3					SP			3										
	4								4										
	5								5			2.717	48.110	1.620	1.350	29.07 +56	UU	4.270	0.030
	6								6										
	7							6.30 - 30.00 m: SANDY CLAY, grey to greyish brown, high plasticity, soft to firm, moist; occationally some mollusca shell; become stiff to hard in 22.00 m depth.	7										
	8								8										
	9								9										
	10					CH			10			2.787	61.560	1.534	2.275	31+ 60 +91	UU	1.845	0.028
	11						0.35		11										
20 SEPTEMBER 1997	12								12										
	13								13										
	14								14										
	15								15										

LEGEND: CORING SPT UDS

TABLE 2.1.1 (6/42) BORING LOG DB3 (2/2)

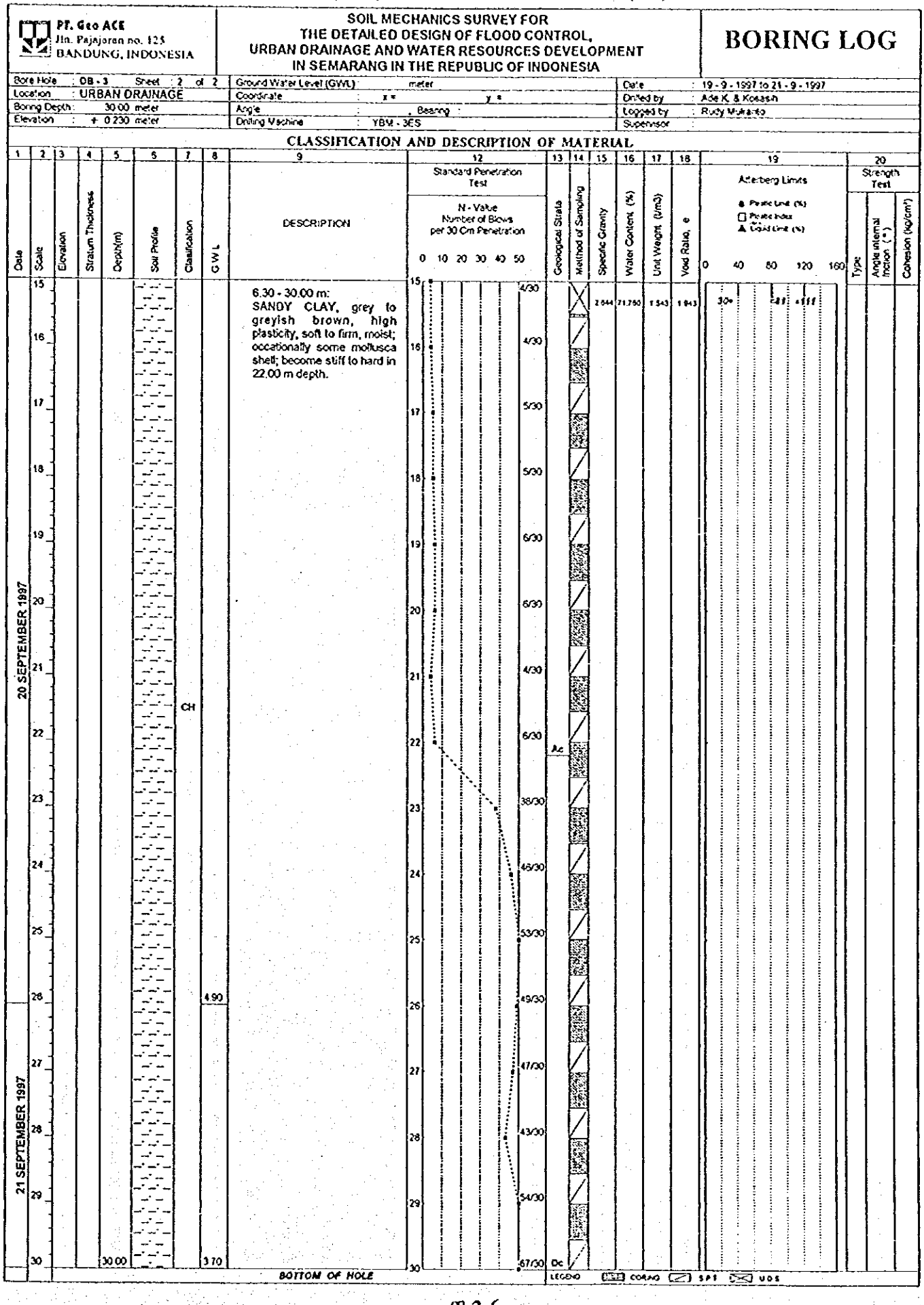


TABLE 2.1.1 (7/42) BORING LOG DB4 (1/2)

PT. Geo ACE
Jln. Pajajaran no. 125
BANDUNG, INDONESIA

SOIL MECHANICS SURVEY FOR
THE DETAILED DESIGN OF FLOOD CONTROL,
URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT
IN SEMARANG IN THE REPUBLIC OF INDONESIA

BORING LOG

Bore Hole	DB - 4 Sheet 1 of 2	Ground Water Level (GWL)	: meter
Location	URBAN DRAINAGE	Coordinate	: x = y =
Boring Depth	30.00 meter	Angle	: Bearing :
Elevation	+ 0.510 meter	Drilling Machine	: YBM - 3ES
Date	25 - 9 - 1997 to 27 - 9 - 1997		
Drilled by	Sudarmadji		
Logged by	Rudy Mulranto		
Supervisor			

CLASSIFICATION AND DESCRIPTION OF MATERIAL

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Date	Scale	Elevation	Stratum Thickness	Depth(m)	Soil Profile	Classification	G.W.L	DESCRIPTION			Standard Penetration Test N - Value Number of Blows per 30 Cm Penetration 0 10 20 30 40 50	Geological Strata	Method of Sampling	Specific Gravity	Water Content (%)	Unit Weight (t/m3)	Void Ratio, e	Atterberg Limits Plastic Limit (%) Plastic Index (%) Liquid Limit (%) 0 40 80 120		Strength Test Type	Angle internal friction, (°)	Cohesion (kg/cm²)
				0.50		CH		0.00 - 0.50 m: SILTY CLAY, greyish brown, high plasticity, firm, moist.			1/30										
				8.00		CH		0.50 - 8.10 m: SANDY CLAY, grey, high plasticity, very soft, moist; containing some mollusca shells, and sand trace.			1/30 2/30 3/30 3/30 3/30			2.741	58.360	1.668	2.118	24 37 60				
				8.50		SP		8.10 - 8.50 m: CLAYEY SAND, grey very fine to fine grained, poorly graded, very loose.			3/30 3/30										
						CH	11.35	8.50 - 30.00 m: CLAY, grey to brown, high plasticity, firm to hard, moist.			4/30 5/30 5/30 7/30 6/30			2.737	76.843	1.553	2.118	24 56 >97		UU 0.78 0.03		

25 SEPTEMBER 1997

26 SEPTEMBER 1997

LEGEND : CORING SPT UDS

TABLE 2.1.1 (8/42) BORING LOG DB4 (2/2)

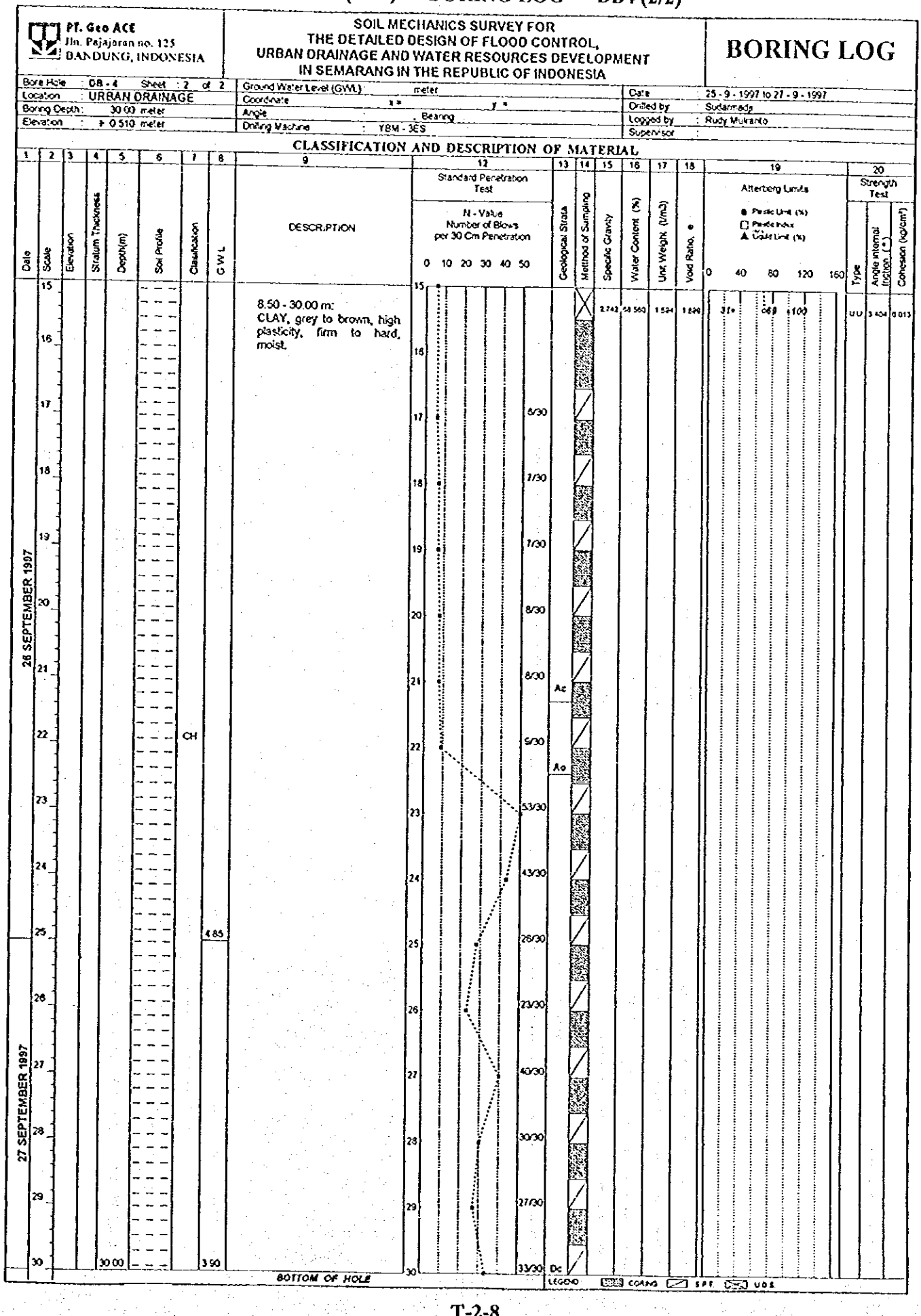


TABLE 2.1.1 (9/42) BORING LOG DB5 (1/2)

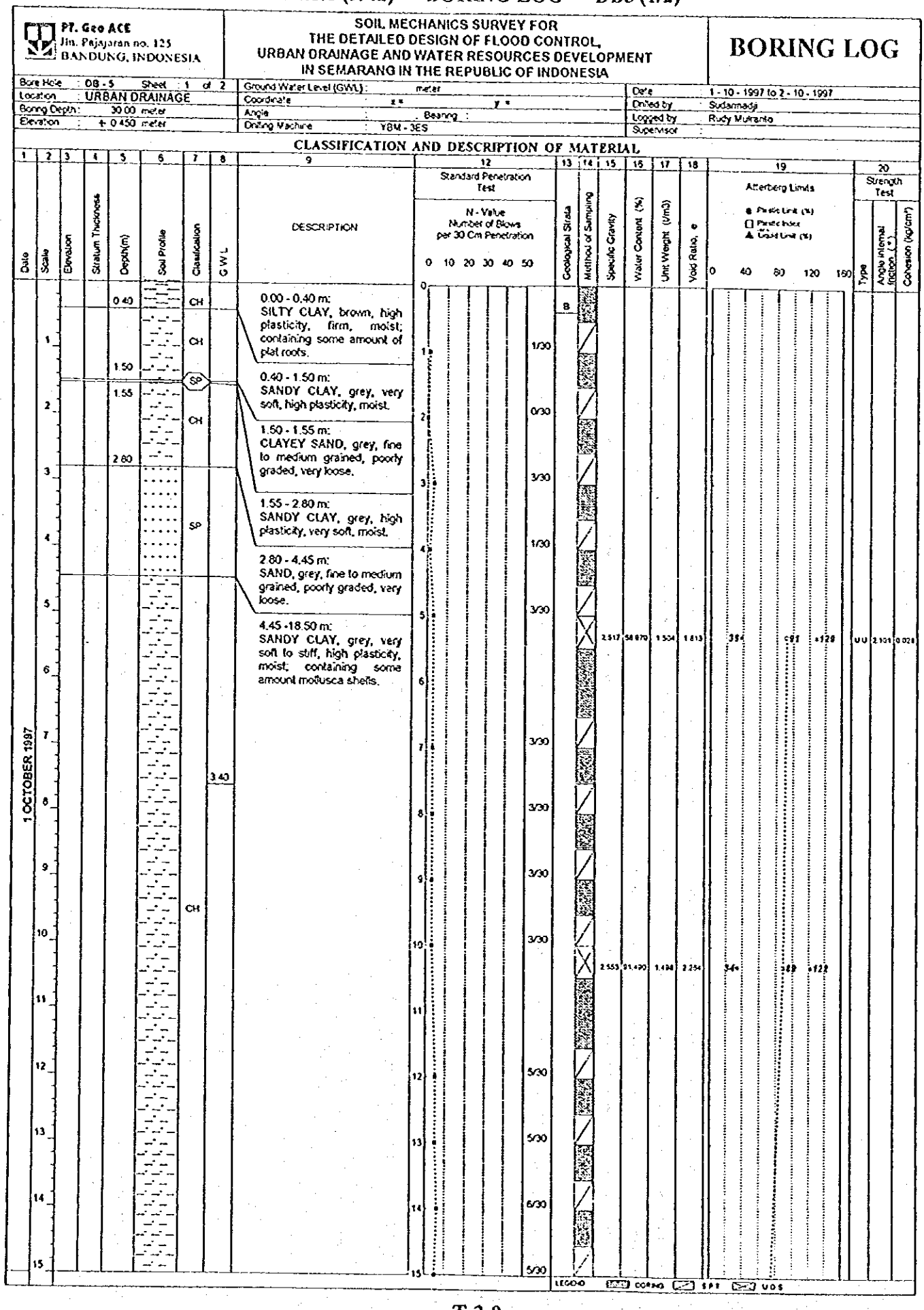


TABLE 2.1.1 (10/42) BORING LOG DB5 (2/2)

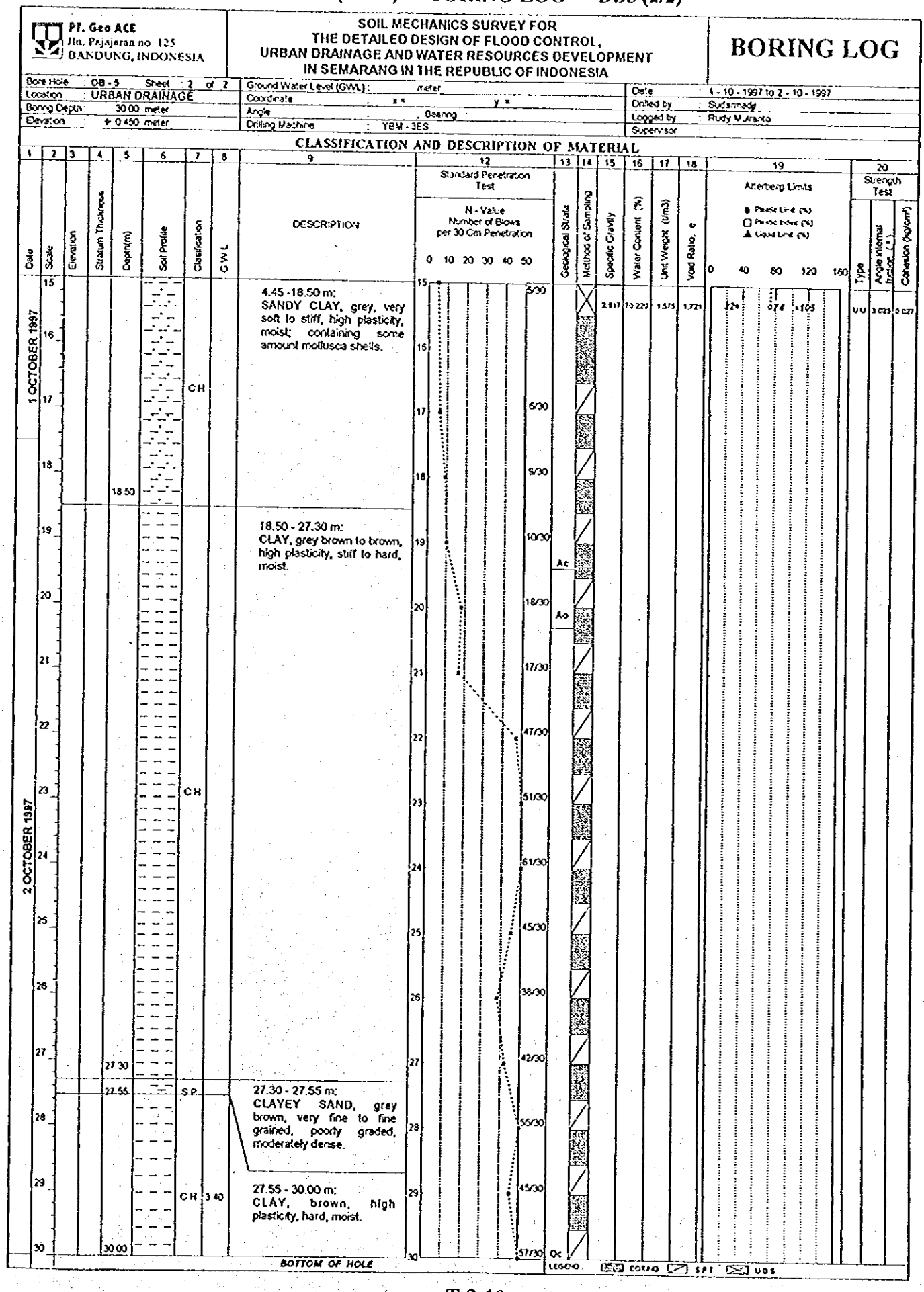


TABLE 2.1.1 (11/42) BORING LOG DB6 (1/2)

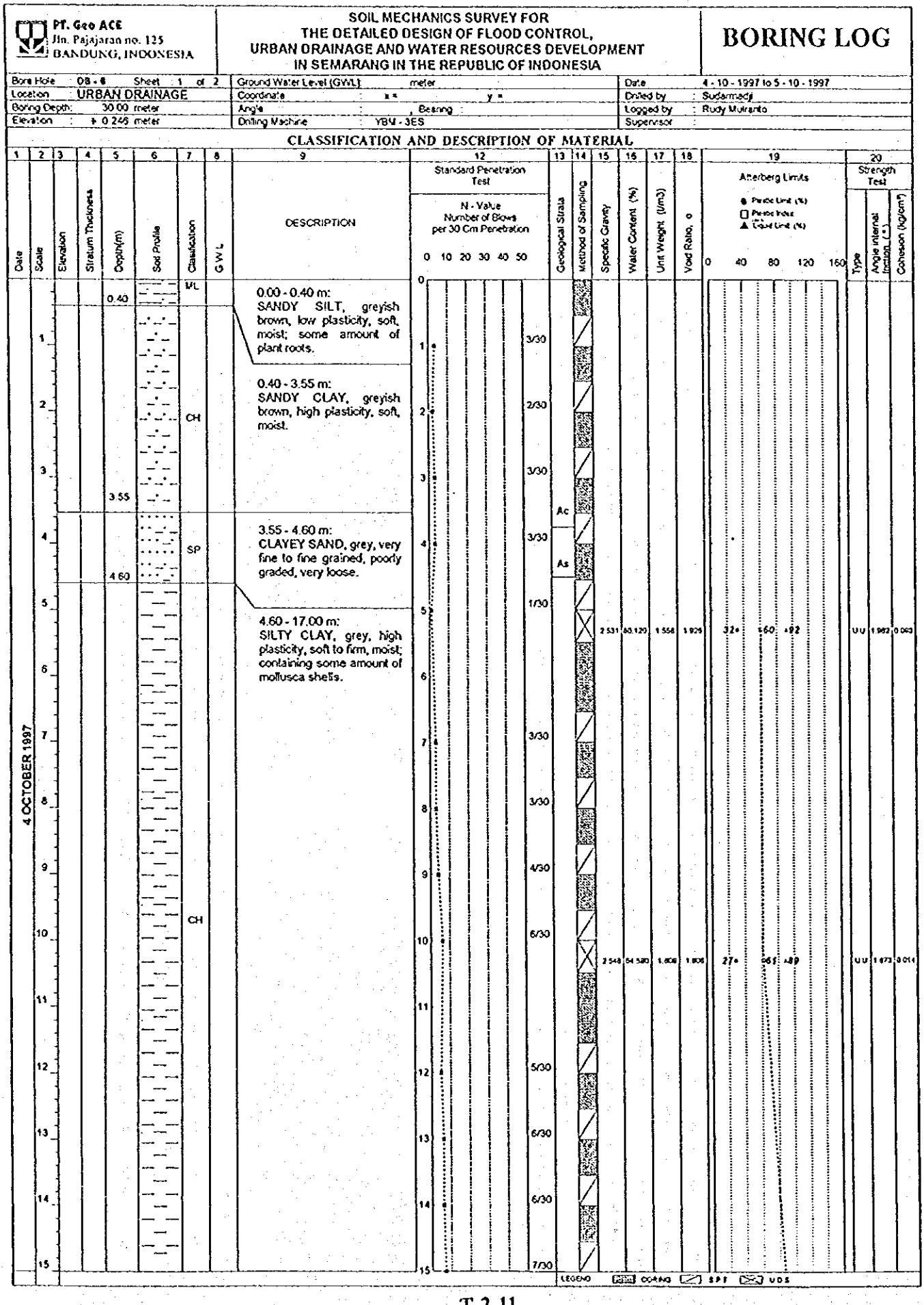


TABLE 2.1.1 (12/42) BORING LOG DB6 (2/2)

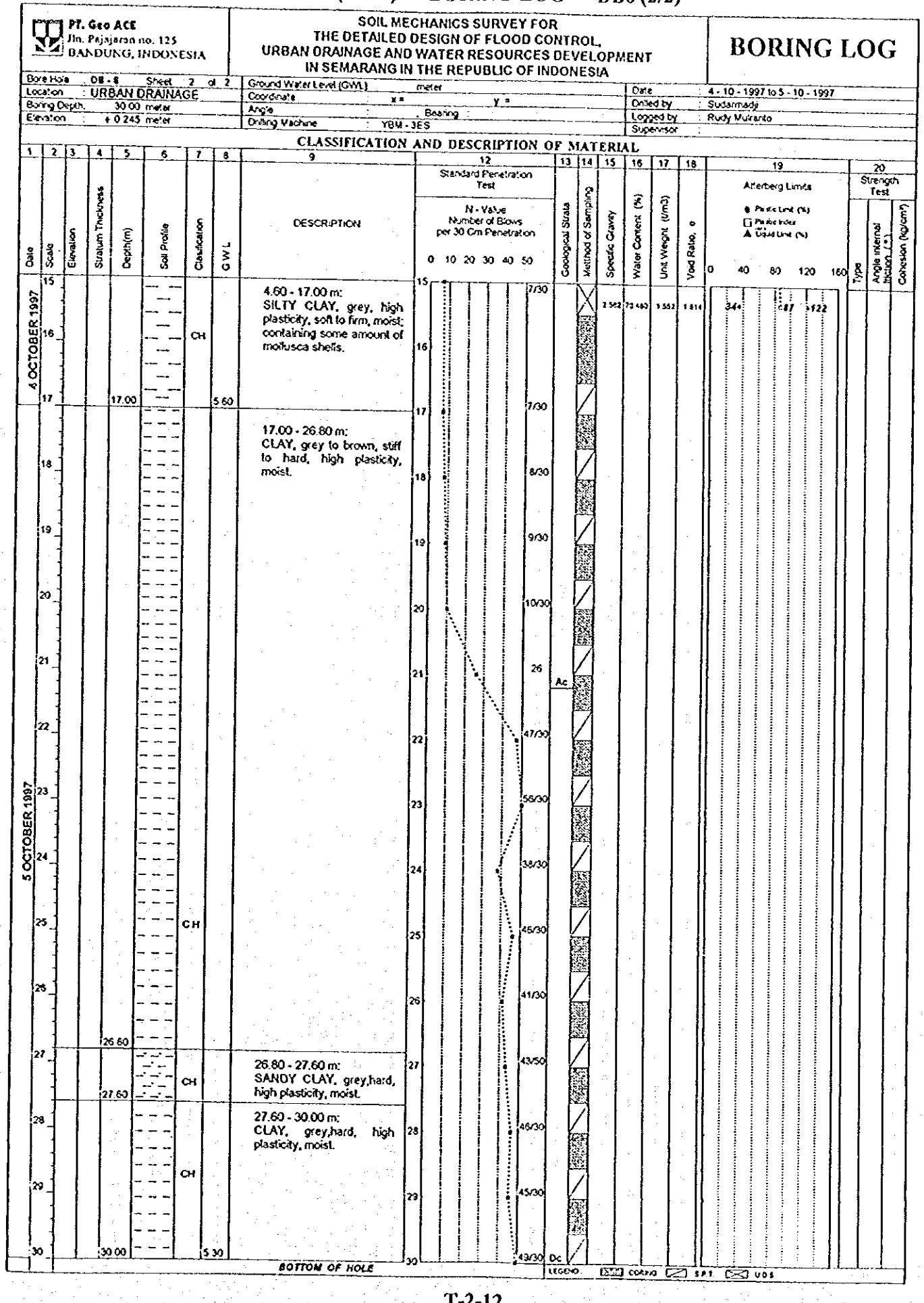


TABLE 2.1.1 (13/42) BORING LOG DB7 (1/2)

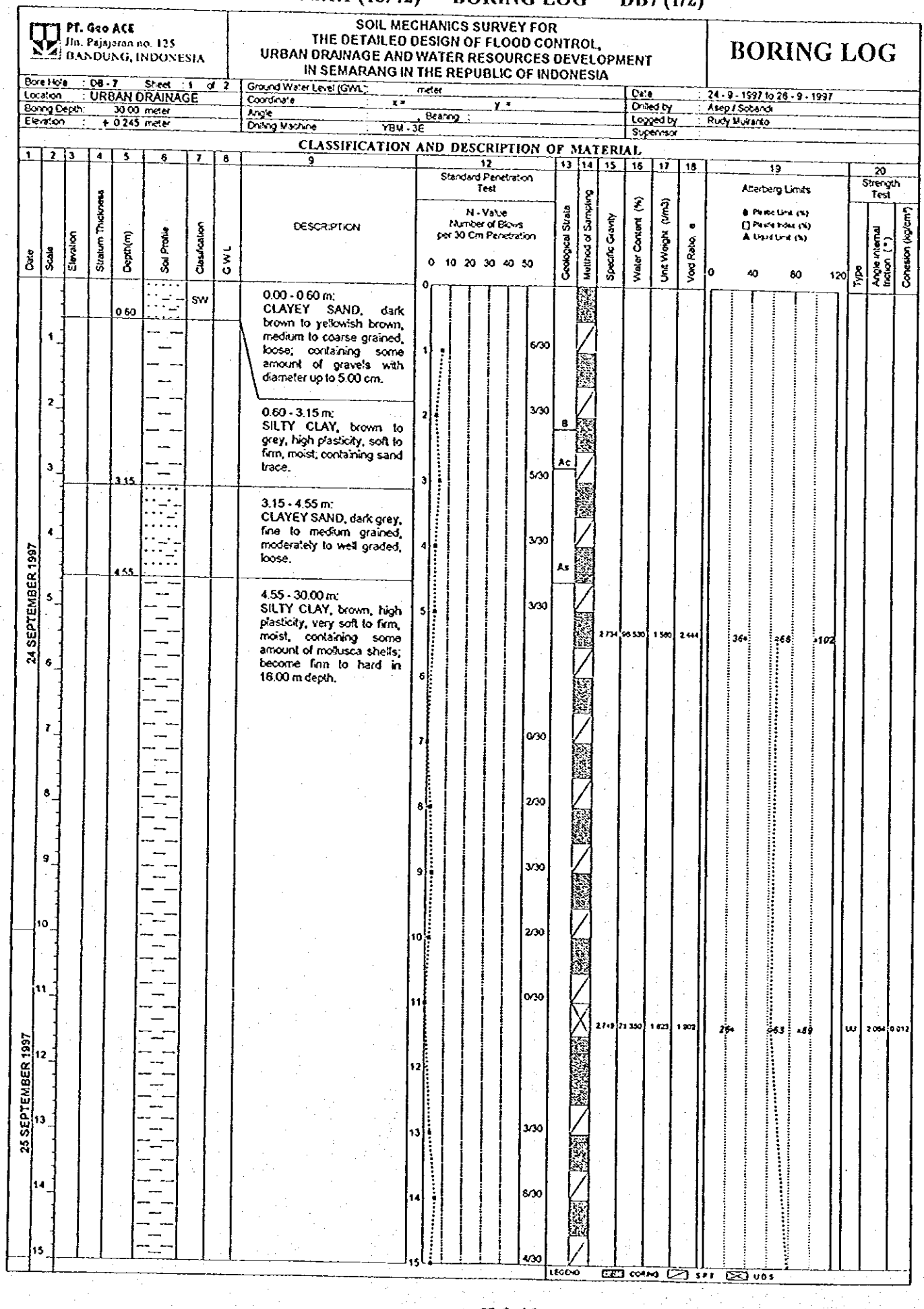


TABLE 2.1.1 (14/42) BORING LOG DB7 (2/2)

PT. Geo ACE
Jln. Pajajaran no. 125
BANDUNG, INDONESIA

SOIL MECHANICS SURVEY FOR
THE DETAILED DESIGN OF FLOOD CONTROL,
URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT
IN SEMARANG IN THE REPUBLIC OF INDONESIA

BORING LOG

Bore Hole : DB - 7 Sheet 2 of 2	Ground Water Level (GWL) : meter	Date	: 24 - 9 - 1997 to 26 - 9 - 1997
Location : URBAN DRAINAGE	Coordinate : X = Y =	Drilled by	: Asep / Sobandi
Boring Depth : 30.00 meter	Angle : Bearing :	Logged by	: Rudy Mulianto
Elevation : ± 0.245 meter	Drilling Machine : YBM - 3E	Supervisor	:

CLASSIFICATION AND DESCRIPTION OF MATERIAL

1	2	3	4	5	6	7	8	9	12	13	14	15	16	17	18	19	20		
Date	Scale	Elevation	Stratum Thickness	Depth(m)	Soil Profile	Classification	G W L	DESCRIPTION	Standard Penetration Test N - Value Number of Blows per 30 Cm Penetration 0 10 20 30 40 50	Geological Strata	Method of Sampling	Specific Gravity	Water Content (%)	Unit Weight (t/m3)	Void Ratio, e	Atterberg Limits Plastic Limit (%) Plastic Index (%) Liquid Limit (%) 0 40 80 120 160	Strength Test Type	Angle internal friction (°)	Cohesion (kg/cm²)
25 SEPTEMBER 1997	15							4.55 - 30.00 m: SILTY CLAY, brown, high plasticity, very soft to firm, moist, containing some amount of mollusca shells; become firm to hard in 16.00 m depth.	4/30			2.725	80.890	1.538	2.204	33% 80 113			
	16								7/30										
	17								7/30										
	18								8/30										
	19								11/30										
	20									Ac									
	21								31/30										
	22								71/30										
	23					CH			37/30										
	24						4.00		39/30										
26 SEPTEMBER 1997	25								34/30										
	26								43/30										
	27								56/30										
	28								71/30										
	29								47/30										
	30							BOTTOM OF HOLE	48/30	Dc									

LEGEND: CORING SPT UDS

TABLE 2.1.1 (15/42) BORING LOG DB8 (1/2)

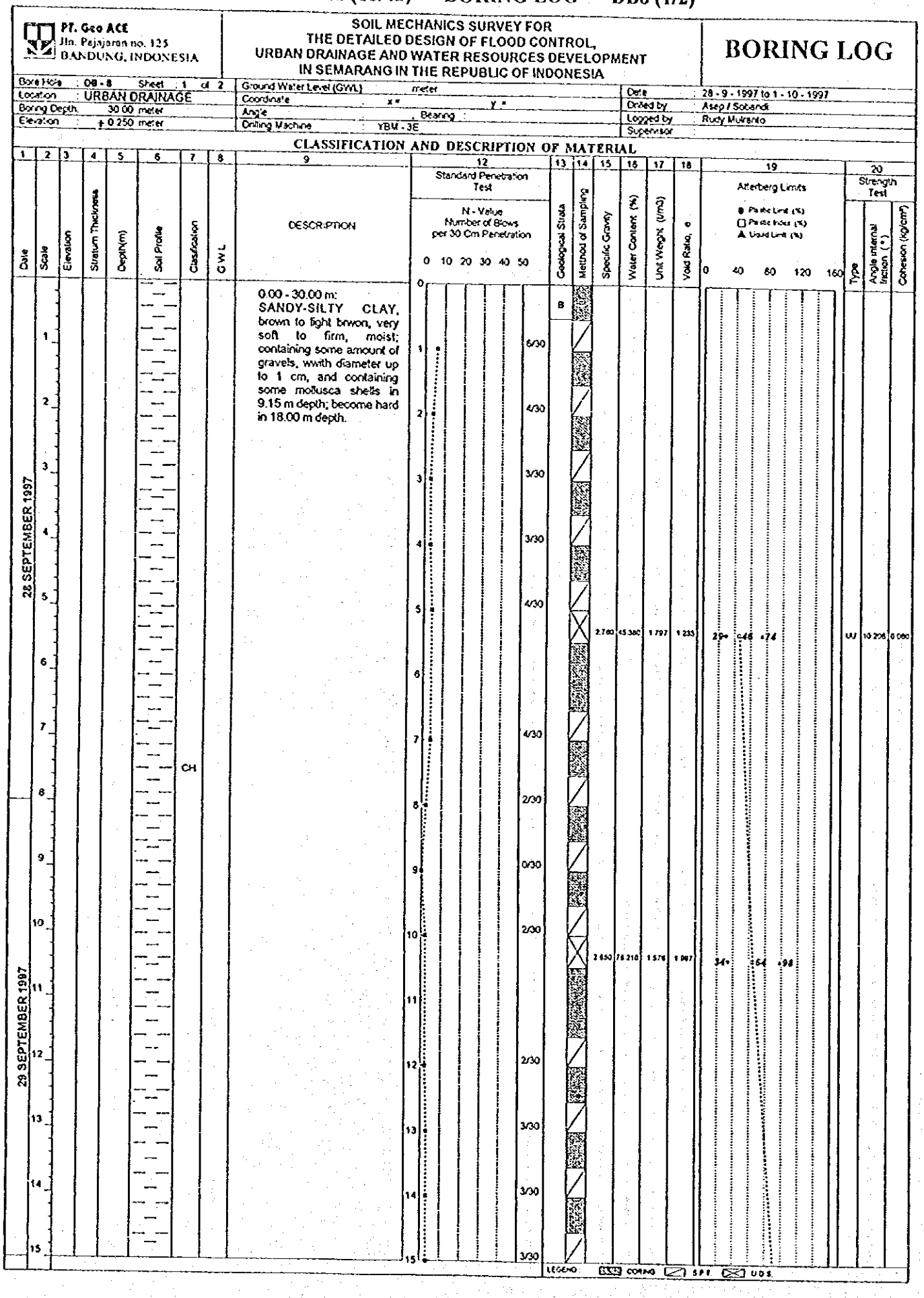


TABLE 2.1.1 (16/42) BORING LOG DB8 (2/2)

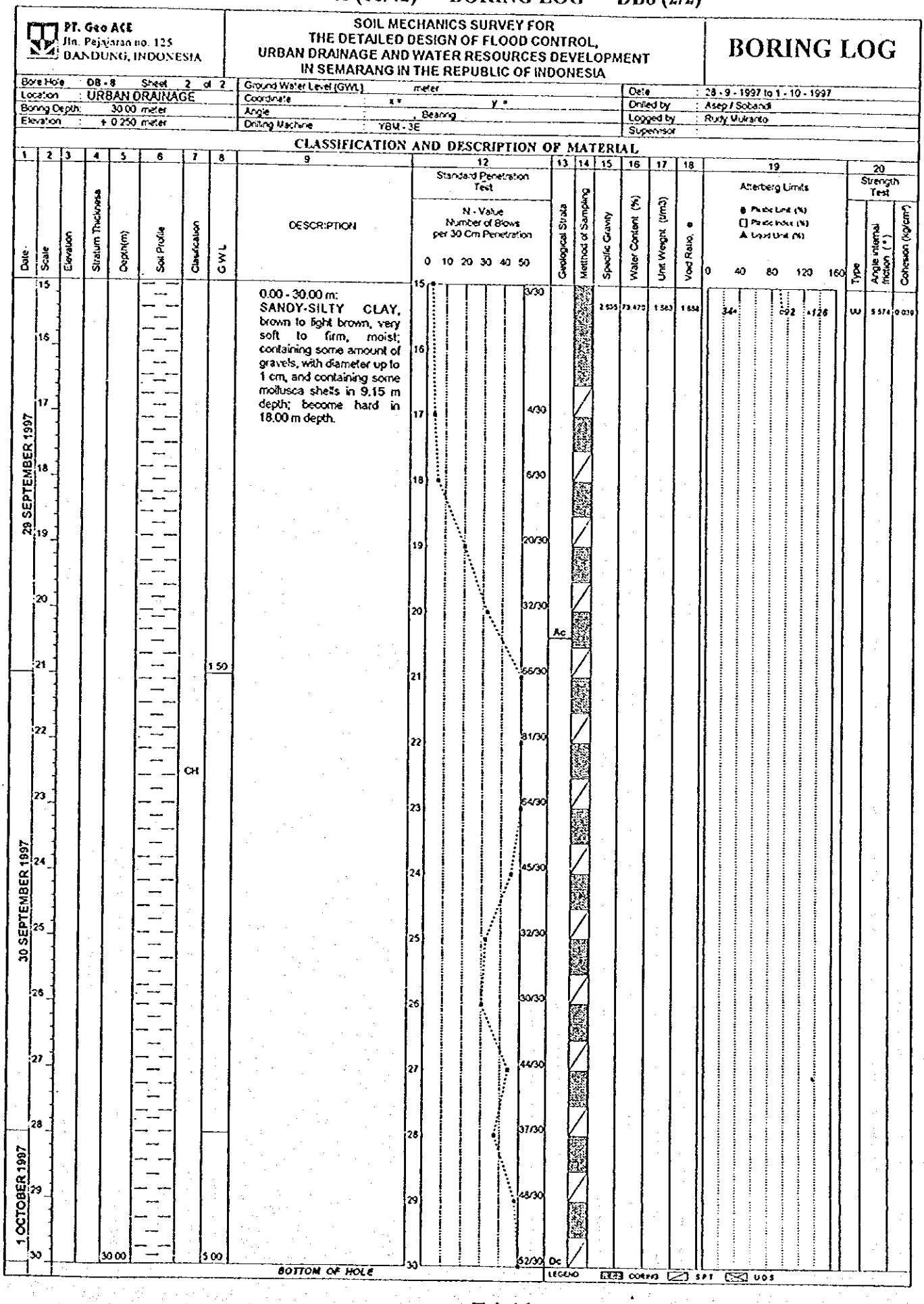


TABLE 2.1.1 (17/42) BORING LOG DB9 (1/2)

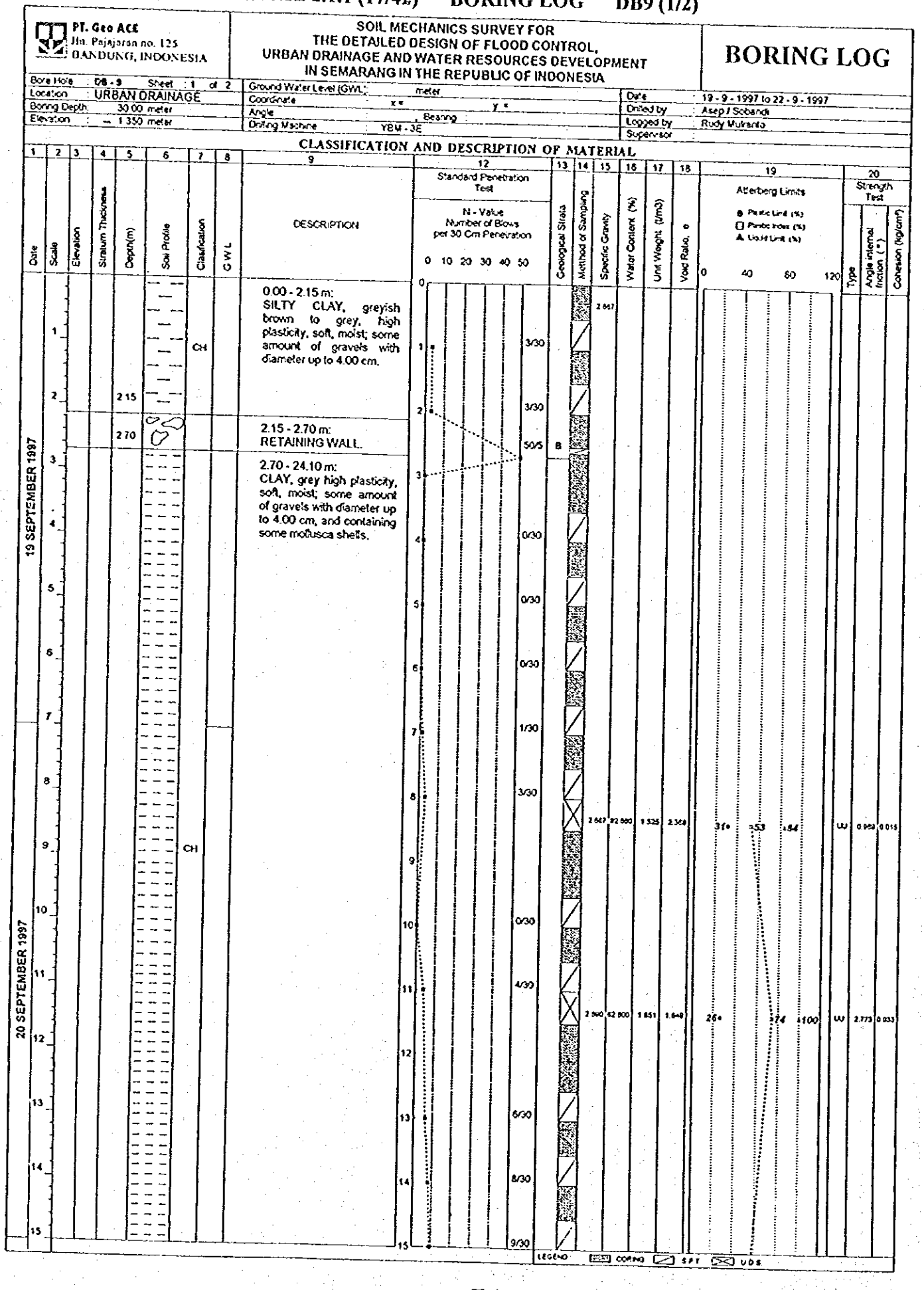


TABLE 2.1.1 (18/42) BORING LOG DB9 (2/2)

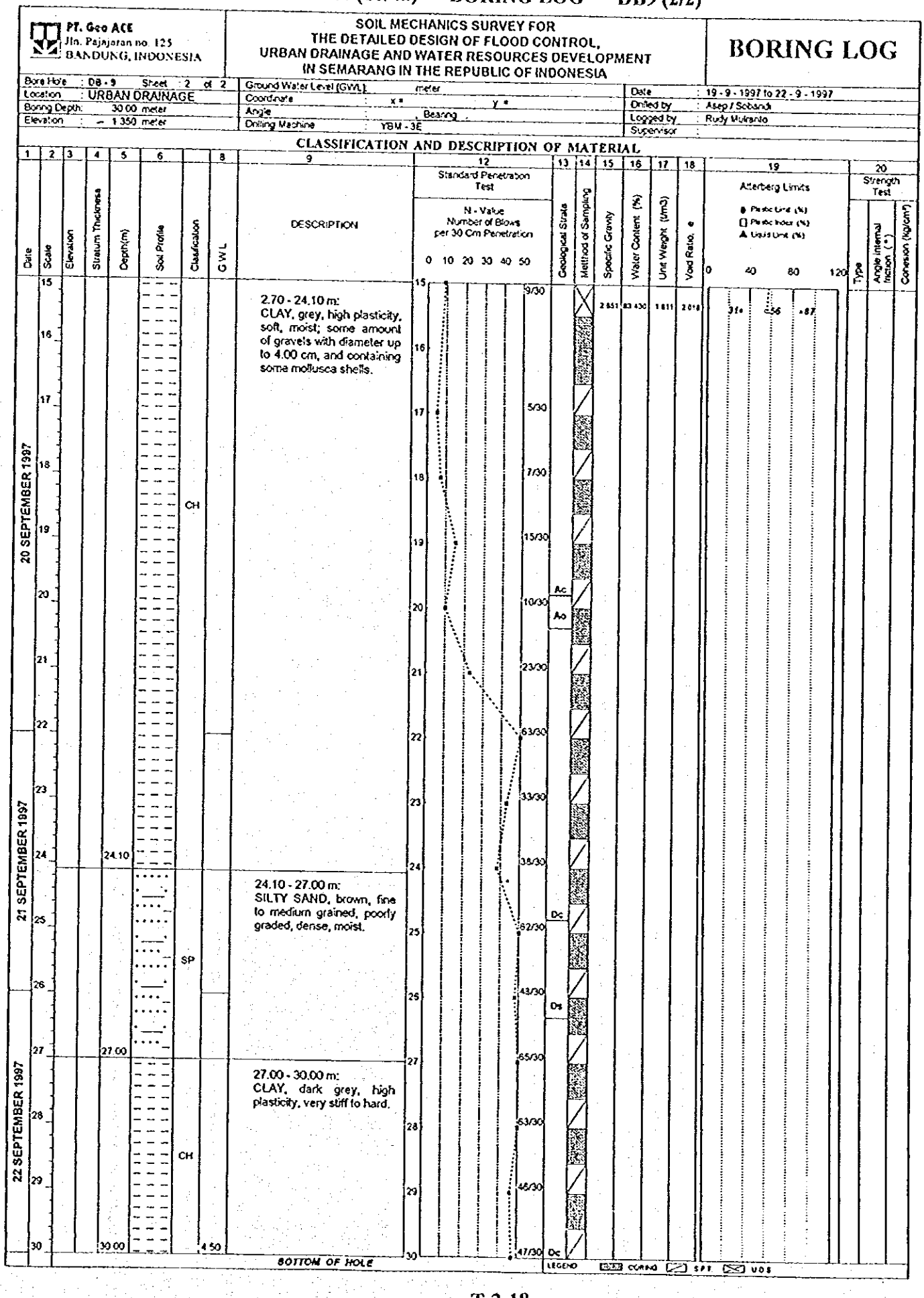


TABLE 2.1.1 (19/42) BORING LOG DB10 (1/2)

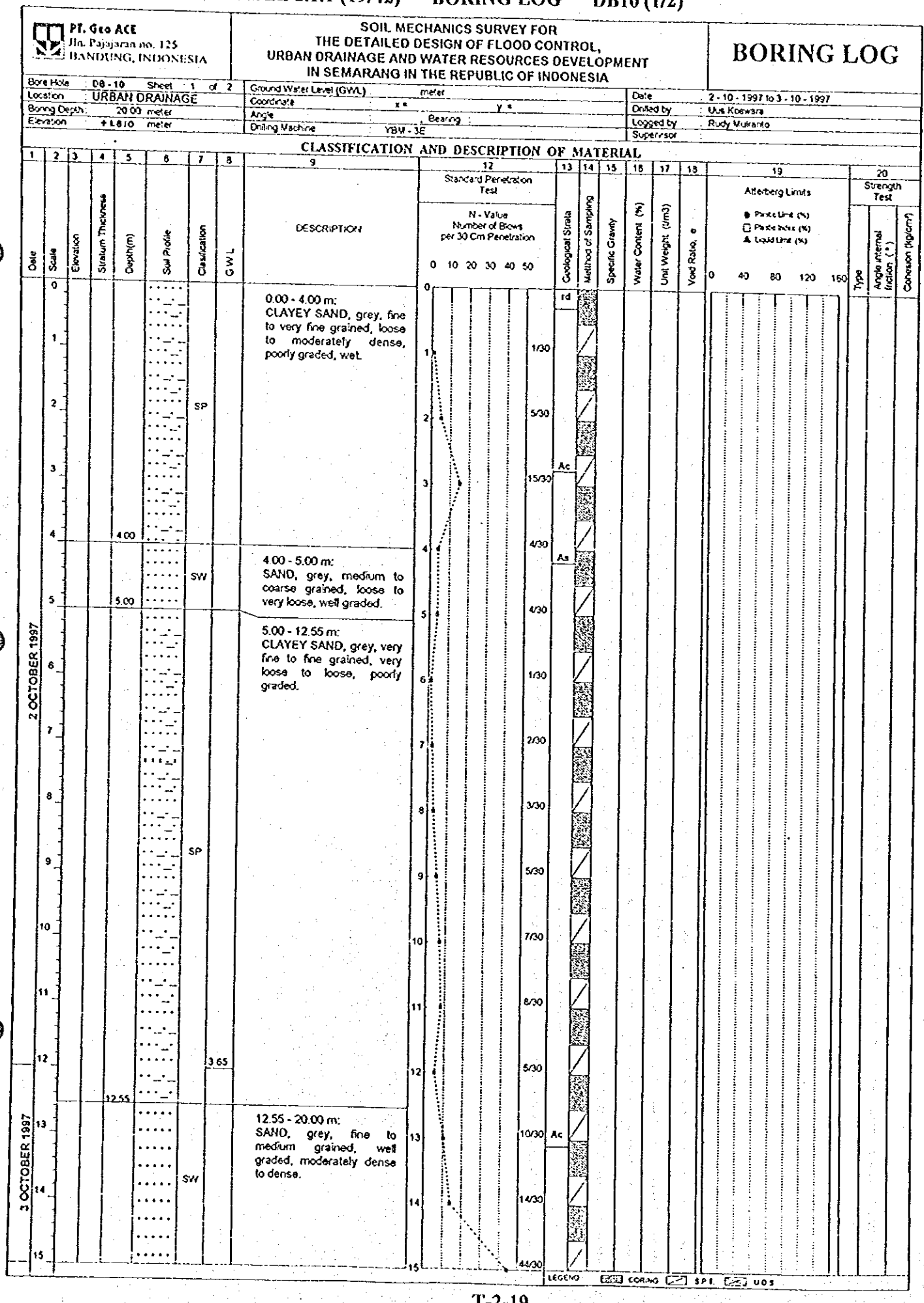
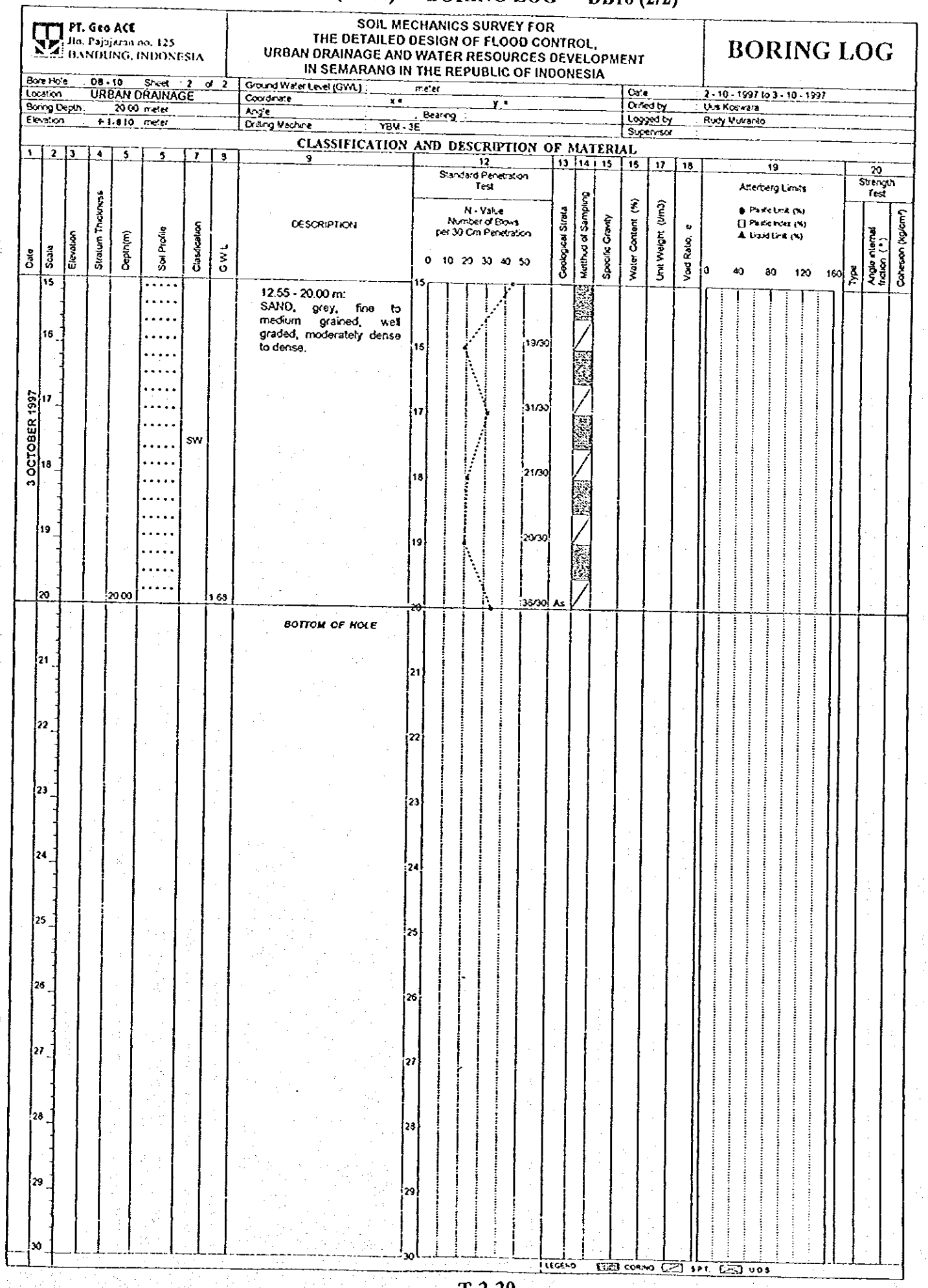


TABLE 2.1.1 (20/42) BORING LOG DB10 (2/2)



PT. Geo ACE
Jln. Pajajaran no. 125
BANDUNG, INDONESIA

SOIL MECHANICS SURVEY FOR
THE DETAILED DESIGN OF FLOOD CONTROL,
URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT
IN SEMARANG IN THE REPUBLIC OF INDONESIA

BORING LOG

Bore Hole : DB - 10 Sheet 2 of 2	Ground Water Level (GWL) : meter	Date : 2 - 10 - 1997 to 3 - 10 - 1997
Location : URBAN DRAINAGE	Coordinate : x = y =	Drilled by : Ubis Koswara
Boring Depth : 20.00 meter	Angle : Bearing :	Logged by : Rudy Mulranto
Elevation : + 1.810 meter	Drilling Machine : YBM - 3E	Supervisor :

CLASSIFICATION AND DESCRIPTION OF MATERIAL

1	2	3	4	5	6	7	8	9	12	13	14	15	16	17	18	19	20
Date	Scale	Elevation	Stratum Thickness	Depth(m)	Soil Profile	Classification	G.W.L	DESCRIPTION	Standard Penetration Test N - Value Number of Blows per 30 Cm Penetration 0 10 20 30 40 50	Geological Strata	Method of Sampling	Specific Gravity	Water Content (%)	Unit Weight (t/m3)	Void Ratio, e	Atterberg Limits Plastic Limit (%) Plastic Index (%) Liquid Limit (%) 0 40 80 120 160	Strength Test Type Angle internal friction (°) Cohesion (kg/cm²)
3 OCTOBER 1997	15							12.55 - 20.00 m: SAND, grey, fine to medium grained, well graded, moderately dense to dense.	19/30								
	16																
	17								31/30								
	18					SW			21/30								
	19								20/30								
	20			20.00			1.63		36/30	As							
								BOTTOM OF HOLE									
	21																
	22																
	23																
	24																
	25																
	26																
	27																
	28																
	29																
	30																

LEGEND CORING SPT UDS

TABLE 2.1.1 (21/42) BORING LOG DB11

PT. Geo ACE
Jln. Pajajaran no. 125
BANDUNG, INDONESIA

SOIL MECHANICS SURVEY FOR
THE DETAILED DESIGN OF FLOOD CONTROL,
URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT
IN SEMARANG IN THE REPUBLIC OF INDONESIA

BORING LOG

Bore Hole : DB - 11 Sheet : 1 of 1	Ground Water Level (GWL) : meter		Date : 6 - 10 - 1997
Location : URBAN DRAINAGE	Coordinate : x = y =		Drilled by : Ubs Koswara
Boring Depth : 10.00 meter	Angle : Bearing :		Logged by : Rudy Mulranto
Elevation : + 0.500 meter	Drilling Machine : YBM - 3E		Supervisor :

CLASSIFICATION AND DESCRIPTION OF MATERIAL

1 Date	2 Scale	3 Elevation	4 Stratum Thickness	5 Depth(m)	6 Soil Profile	7 Classification	8 G W L	9 DESCRIPTION
6 OCTOBER 1997	0			0.20		SW		
	1			1.00		ML		0.00 - 0.20 m: SAND, dark grey, with orange mottled, medium to coarse grained, well graded, loose.
				1.60		GP		0.20 - 1.00 m: SANDY SILT, black, very soft, low plasticity, moist.
	2							1.00 - 1.60 m: MASONRY.
	3					SW		1.60 - 6.10 m: CLAYEY SAND, yellowish grey to dark grey, medium to coarse grained, medium dense to loose, moderately to well graded.
	4							
	5			6.10		SP		Become very fine to fine grained, poorly graded (in 4.00 m depth).
	6							6.10 - 10.00 m: SANDY CLAY, grey, high plasticity, soft to firm, moist.
	7							
	8					CH		
	9							
	10			10.00			3.97	BOTTOM OF HOLE
	11							
	12							
	13							
	14							
	15							

12 Standard Penetration Test: N - Value, Number of Blows per 30 Cm Penetration (0 10 20 30 40 50)	13 Geological Strata	14 Method of Sampling	15 Specific Gravity	16 Water Content (%)	17 Unit Weight (t/m3)	18 Void Ratio, e	19 Atterberg Limits (Plastic Limit (%), Plastic Index (%), Liquid Limit (%); 0 40 80 120 160)	20 Strength Test: Type	Angle internal friction (°)	Cohesion (kg/cm²)
1/30	fd									
50/3	B									
	Ac									
20/30	As									
2/30										
4/30										
1/30										
3/30										
2/30										
3/30										
4/30	Ac									

LEGEND: CORING SPT UDS

TABLE 2.1.1 (22/42) BORING LOG DB12

PT. Geo ACE
Jln. Pajajaran no. 125
BANDUNG, INDONESIA

SOIL MECHANICS SURVEY FOR
THE DETAILED DESIGN OF FLOOD CONTROL,
URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT
IN SEMARANG IN THE REPUBLIC OF INDONESIA

BORING LOG

Bore Hole	DB - 12 Sheet 1 of 1	Ground Water Level (GWL)	meter	Date	9 - 10 - 1997 to 10 - 10 - 1997
Location	URBAN DRAINAGE	Coordinate	x = y =	Drilled by	Uus Kosasih
Boring Depth	10.00 meter	Angle	Bearing	Logged by	Rudy Mulyanto
Elevation	+ 0.805 meter	Drilling Machine	: YBM - 3E	Supervisor	

CLASSIFICATION AND DESCRIPTION OF MATERIAL

1 Date	2 Scale	3 Elevation	4 Stratum Thickness	5 Depth(m)	6 Soil Profile	7 Classification	8 G.W.L	9 DESCRIPTION
9 OCTOBER 1997	1			0.90		SW		0.00 - 0.90 m: GRAVELY SAND, black, medium to coarse4 grained, well graded, loose. Gravels with diameter up to 3.00 cm.
	2			2.00		GP		0.90 - 2.00 m: GRAVEL. (MASONRY).
	3					SW		2.00 - 5.45 m: SAND, dark grey to grey, medium to very coarse grained, well graded, loose to loose; containing some mollusca shells.
	4							
	5			5.45				
	6			6.10		SP		5.45 - 6.10 m: CLAYEY SAND, grey, fine to medium grained, poorly graded, very loose; occationally mollusca shells.
10 OCTOBER 1997	7							6.10 - 10.00 m: SANDY CLAY, grey, high plasticity, very soft to moist; containing some amount of mollusca shells.
	8							
	9							
	10			10.00			3.05	
	11							BOTTOM OF HOLE
	12							
	13							
	14							
	15							

12 Standard Penetration Test N - Value Number of Blows per 30 Cm Penetration (0 10 20 30 40 50)	13 Geological Strata	14 Method of Sampling	15 Specific Gravity	16 Water Content (%)	17 Unit Weight (t/m3)	18 Void Ratio, e	19 Atterberg Limits (Plastic Limit (%), Plastic Index (%), Liquid Limit (%); 0 40 80 120 160)	20 Strength Test: Type	Angle internal friction (°)	Cohesion (kg/cm²)
50/15	fd									
50/5	B									
8/30										
3/30										
2/30	As									
3/30										
3/30										
3/30										
2/30										
3/30	Ac									

LEGEND: CORING SPT UDS

TABLE 2.1.1 (23/42) BORING LOG DB13 (1/2)

PT. Geo ACE
Jln. Pajajaran no. 125
BANDUNG, INDONESIA

SOIL MECHANICS SURVEY FOR THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

BORING LOG

Bore Hole : DB - 13 Sheet : 1 of 2	Ground Water Level (GWL) : meter	Date	: 11 - 10 - 1997 to 13 - 10 - 1997
Location : URBAN DRAINAGE	Coordinate : x = y =	Drilled by	: Uus Koswara
Boring Depth : 20.00 meter	Angle : Bearing	Logged by	: Rudy Mulyanto
Elevation : + 0.695 meter	Drilling Machine : YBM - 3E	Supervisor	:

CLASSIFICATION AND DESCRIPTION OF MATERIAL

1	2	3	4	5	6	7	8	9	12	13	14	15	16	17	18	19	20		
Date	Scale	Elevation	Stratum Thickness	Depth (m)	Soil Profile	Classification	G W L	DESCRIPTION	Standard Penetration Test: N - Value, Number of Blows per 30 Cm Penetration (0 10 20 30 40 50)	Geological Strata	Method of Sampling	Specific Gravity	Water Content (%)	Unit Weight (t/m3)	Void Ratio, e	Atterberg Limits: Plastic Limit (%), Plastic Index (%), Liquid Limit (%) (0 40 80 120 160)	Strength Test: Type	Angle internal friction (°)	Cohesion (kg/cm²)
11 OCTOBER 1997	1					SP		0.00 - 4.55 m: CLAYEY SAND, grey to dark grey, fine to medium grained, very loose to loose, poorly graded, occationally mollusca shells in 3.55 m depth.	0 / 1 / 5/30										
	2								2 / 3/30	rd									
	3								3 / 9/30										
	4			4.55			1.65		4 / 6/30	As									
12 OCTOBER 1997	5					CH		4.55 - 20.00 m: SANDY CLAY, grey, high plasticity, very soft to firm; containing some mollusca shells. Become very stiff in 14.00 meter depth.	5 / 3/30										
	6								6 / 3/30										
	7								7 / 2/30										
	8								8 / 2/30										
	9								9 / 2/30										
	10								10 / 3/30										
	11								11 / 5/30										
	12								12 / 4/30										
	13								13 / 3/30										
	14								14 / 2/30										
	15								15 / 19/30	Ac									

LEGEND: CORING SPT UDS

TABLE 2.1.1 (24/42) BORING LOG DB13 (2/2)

PT. Geo ACE
Jln. Pajajaran no. 125
BANDUNG, INDONESIA

SOIL MECHANICS SURVEY FOR
THE DETAILED DESIGN OF FLOOD CONTROL,
URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT
IN SEMARANG IN THE REPUBLIC OF INDONESIA

BORING LOG

Bore Hole : DB - 13 Sheet : 2 of 2	Ground Water Level (GWL) : meter	Date	: 11 - 10 - 1997 to 13 - 10 - 1997
Location : URBAN DRAINAGE	Coordinate : X = Y =	Drilled by	: Ubs Koswara
Boring Depth : 20.00 meter	Angle : Bearing	Logged by	: Rudy Mulranto
Elevation : + 0.695 meter	Drilling Machine : YBM - 3E	Supervisor	

CLASSIFICATION AND DESCRIPTION OF MATERIAL

1	2	3	4	5	6	7	8	9	12	13	14	15	16	17	18	19	20
Date	Scale	Elevation	Stratum Thickness	Depth (m)	Soil Profile	Classification	G.W.L	DESCRIPTION	Standard Penetration Test: N - Value, Number of Blows per 30 Cm Penetration (0 10 20 30 40 50)	Geological Strata	Method of Sampling	Specific Gravity	Water Content (%)	Unit Weight (t/m3)	Void Ratio, e	Atterberg Limits (● Plastic Limit (%), □ Plastic Index (%), ▲ Liquid Limit (%); 0 40 80 120 160)	Strength Test: Type; Angle internal friction (°); Cohesion (kg/cm²)
12/10-97	15							4.55 - 20.00 m: SANDY CLAY, grey, high plasticity, very soft to firm; containing some mollusca shells. Become very stiff in 14.00 meter depth.	19/30								
	16						3.85		26/30								
13 OCTOBER 1997	17					CH			22/30								
	18								23/30								
	19								23/30								
	20			20.00			1.09		22/30	Dc							
								BOTTOM OF HOLE									
	21																
	22																
	23																
	24																
	25																
	26																
	27																
	28																
	29																
	30																

LEGEND: CORING SPT UDS

TABLE 2.1.1 (25/42) BORING LOG DB14

Pt. Geo ACE
Jln. Pajajaran no. 125
BANDUNG, INDONESIA

SOIL MECHANICS SURVEY FOR THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

BORING LOG

Bore Hole : DB-14 Sheet : 1 of 1	Ground Water Level (GWL) : meter	Date	: 11 - 10 - 1997
Location : URBAN DRAINAGE	Coordinate : x = y =	Drilled by	: Asep / Sobandi
Boring Depth : 10.00 meter	Angle : Bearing :	Logged by	: Rudy Mukarto
Elevation : + 0.360 meter	Drilling Machine : YBM - 3ES	Supervisor	:

CLASSIFICATION AND DESCRIPTION OF MATERIAL

1 Date	2 Scale	3 Elevation	4 Stratum Thickness	5 Depth(m)	6 Soil Profile	7 Classification	8 G W L	9 DESCRIPTION
11 OCTOBER 1997	0 - 15			0.30		SW		0.00 - 0.30 m: GRAVELLY SAND, brownish grey, fine to coarse grained, loose, well graded. Gravels: reddish orange, diameter up to 2.00 cm (bricks).
				5.10		SP		0.30 - 5.10 m: CLAYEY SAND, brownish grey to grey, fine to medium grained, poorly graded, loose to moderately dense; occationally mollusca shells.
				10.00		CH		5.10 - 10.00 m: SANDY CLAY, grey, high plasticity, soft, moist; containing some amount of mollusca shells.
								BOTTOM OF HOLE

12 Standard Penetration Test N - Value Number of Blows per 30 Cm Penetration (0 10 20 30 40 50)	13 Geological Strata	14 Method of Sampling	15 Specific Gravity	16 Water Content (%)	17 Unit Weight (t/m3)	18 Void Ratio, e	19 Atterberg Limits (0 40 80 120 160)	20 Strength Test: Type	Angle internal friction (°)	Cohesion (kg/cm²)
6/30										
7/30	rd									
14/30										
23/30										
4/30	As									
4/30										
3/30										
3/30										
3/30										
4/30	Ac									

LEGEND: CORAD SPT UDS