



LABORATORIUM MEKANIKA TANAH
JURUSAN TEKNIK SIPIL
POLITEKNIK NEGERI SEMARANG

PT : Pembangunan Jembatan Gadu
 : KM 95+750 Ds. Ngemplak Lor - Kab. Pati
 : S - 1
 : 8-Apr-18

Depth of CPT : 12.40 m
 Elev. Of Ground Surface : - m
 Elev. Of Ground Water Table : - m
 Operator : Ukiman, ST, MT.
 Analysis : Ir. Suparman, MT.
 : Drs. Supardjo

CONE PENETROMETER TEST / SONDIR
 Standart Test : ASTM D 3441 - 94

Depth	Manometer Reading		Friction (Fr)	Fr*20/10	Total Cumulative Friction (TCF)	Local Friction (LF)	Friction Ratio (FR)
	Cone Resistance (qc)	Total Resistance (TR)					
	(kg/cm ²)	(kg/cm ²)	(kg/cm ²)	(kg/cm')	(kg/cm')	(kg/cm ²)	(%)
	B	C	D	E	F	G	H
	0	0	0	0	0	0.00	0.00
	0	0	0	0	0	0.00	0.00
	0	0	0	0	0	0.00	0.00
	0	0	0	0	0	0.00	0.00
	10	16	6	12	12	0.60	6.00
	8	11	3	6	18	0.30	3.75
	7	10	3	6	24	0.30	4.29
	12	18	6	12	36	0.60	5.00
	16	22	6	12	48	0.60	3.75
	19	25	6	12	60	0.60	3.16
	22	30	8	16	76	0.80	3.64
	18	24	6	12	88	0.60	3.33
	15	20	5	10	98	0.50	3.33
	12	16	4	8	106	0.40	3.33
	14	20	6	12	118	0.60	4.29
	16	21	5	10	128	0.50	3.13
	15	20	5	10	138	0.50	3.33
	11	15	4	8	146	0.40	3.64
	10	15	5	10	156	0.50	5.00
	7	9	2	4	160	0.20	2.86
	6	8	2	4	164	0.20	3.33
	5	7	2	4	168	0.20	4.00
	5	7	2	4	172	0.20	4.00
	6	8	2	4	176	0.20	3.33
	8	11	2	4	180	0.20	3.33
	7	10	3	6	186	0.30	3.75
	7	10	3	6	192	0.30	4.29
	8	11	3	6	198	0.30	4.29
	8	11	3	6	204	0.30	3.75
	9	13	3	6	210	0.30	3.75
	4	6	4	8	218	0.40	4.44
	4	6	2	4	222	0.20	5.00
	4	6	2	4	226	0.20	5.00
	3	4	2	4	230	0.20	5.00
	3	4	1	2	232	0.10	3.33
	4	6	1	2	234	0.10	3.33
	4	6	2	4	238	0.20	5.00
	5	7	2	4	242	0.20	4.00



LABORATORIUM MEKANIKA TANAH
JURUSAN TEKNIK SIPIL
POLITEKNIK NEGERI SEMARANG

: Pembangunan Jembatan Gadu
 : KM 95+750 Ds. Ngemplak Lor - Kab. Pati
 : S - 1
 : 8-Apr-18

Depth of CPT : 12.40 m
 Elev. Of Ground Surface : - m
 Elev. Of Ground Water Table : - m
 Operator : Ukiman, ST, MT.
 Analisis : Ir. Suparman, MT.
 : Drs. Supardjo

CONE PENETROMETER TEST / SONDIR
 Standart Test : ASTM D 3441 - 94

Depth (m)	Manometer Reading		Friction (Fr) (kg/cm ²)	Fr*20/10 (kg/cm')	Total Cumulative Friction (TCF) (kg/cm')	Local Friction (LF) (kg/cm ²)	Friction Ratio (FR) (%)
	Cone Resistance (qc) (kg/cm ²)	Total Resistance (TR) (kg/cm ²)					
	B	C	D	E	F	G	H
100	5	7	2	4	246	0.20	4.00
100	4	6	2	4	250	0.20	5.00
100	4	6	2	4	254	0.20	5.00
120	4	6	2	4	258	0.20	5.00
140	5	7	2	4	262	0.20	4.00
160	5	7	2	4	266	0.20	4.00
180	7	10	3	6	272	0.30	4.29
200	8	12	4	8	280	0.40	5.00
220	10	15	5	10	290	0.50	5.00
240	12	18	6	12	302	0.60	5.00
260	15	22	7	14	316	0.70	4.67
280	20	30	10	20	336	1.00	5.00
300	24	35	11	22	358	1.10	4.58
320	35	45	10	20	378	1.00	2.86
340	50	60	10	20	398	1.00	2.00
360	65	80	15	30	428	1.50	2.31
380	75	90	15	30	458	1.50	2.00
400	100	120	20	40	498	2.00	2.00
420	120	140	20	40	538	2.00	1.67
440	135	160	25	50	588	2.50	1.85
460	65	80	15	30	618	1.50	2.31
480	50	60	10	20	638	1.00	2.00
500	115	135	20	40	678	2.00	1.74
520	160	185	25	50	728	2.50	1.56
540	190	215	25	50	778	2.50	1.32

