BAB VI
KESIMPULAN

1. Dalam perencanaan pembangunan jalan raya di daerah Batu, trase 1 dipilih sebagai alternatif yang paling memungkinkan. Hal ini didasarkan pada beberapa kriteria, yaitu:
    - Kondisi lapangan: Trase 1 memiliki kontur area yang lebih sesuai untuk pembangunan jalan raya, dibandingkan trase-trse lainnya. Kontur area ini dapat dilihat dari tingkat kemiringan, lebar, dan jenis tanah di area tersebut.
    - Volume galian dan timbunan: Selisih volume galian dan timbunan pada trase 1 mendekati sama. Hal ini berarti, tidak ada banyak tanah yang perlu digali atau ditimbun, sehingga biaya pembangunannya lebih efisien.
2. Pada perencanaan jalan raya di wilayah Batu, perkerasan lentur dipilih karena memiliki keunggulan dari segi biaya, waktu, kenyamanan, dan keamanan, serta kemudahan pembangunan.
3. Dalam perencanaan saluran drainase, terdapat empat ukuran saluran yang ditentukan berdasarkan luas daerah limpasan hujan. Ukuran saluran tersebut juga mengacu pada ukuran u-ditch yaitu 30 x 30 , 40 x 60 , 50 x 50, dan 50 x 70.
4. Berdasarkan perhitungan daya dukung tanah dari data CPT,SPT, Mayerhof dan Terzaghi dapat disimpulkan bahwa daya dukung tanah sudah aman untuk menahan beban perkerasan dan beban gandar . Hal ini juga didukung oleh perhitungan stabilitas lereng yang menggunakan metode Taylor dan Spencer. Berdasarkan perhitungan tersebut, dapat disimpulkan bahwa lereng dan timbunan sudah aman.

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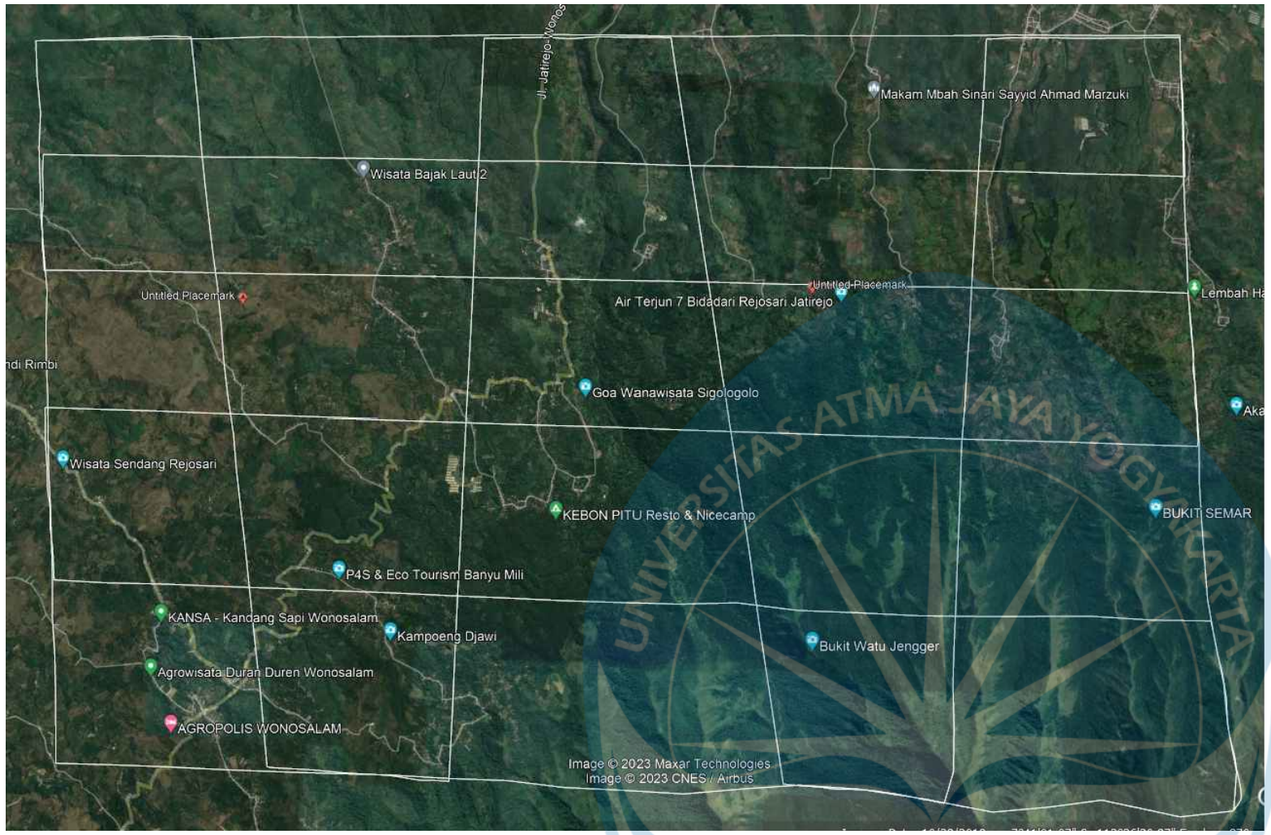
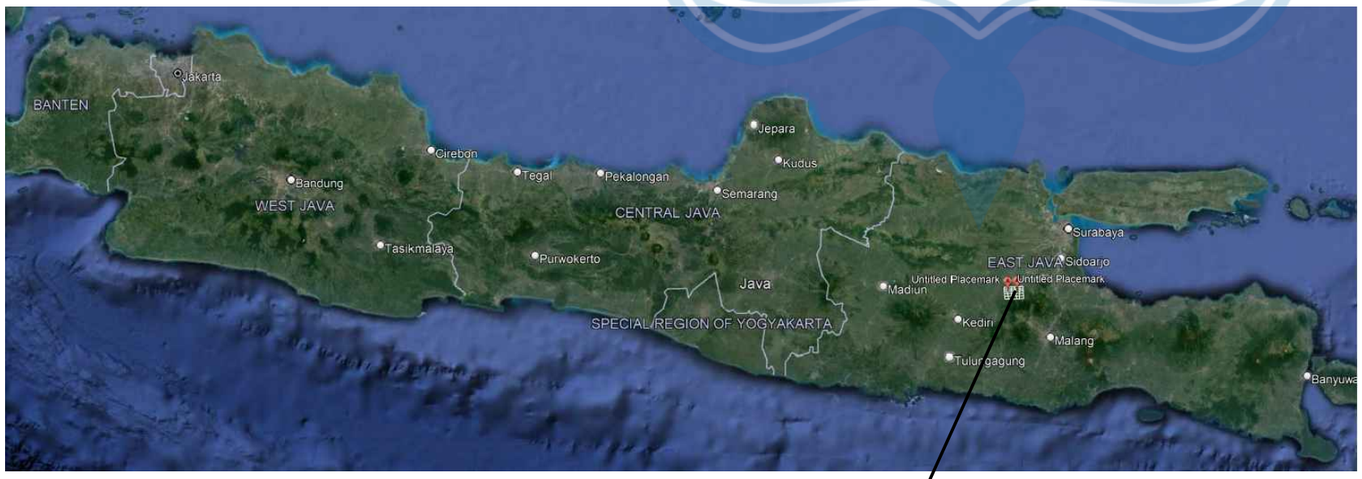
Lampiran 1

PETA LOKASI DAN ALINEMEN HORIZONTAL

Lokasi Batu





Titik Lokasi Batu

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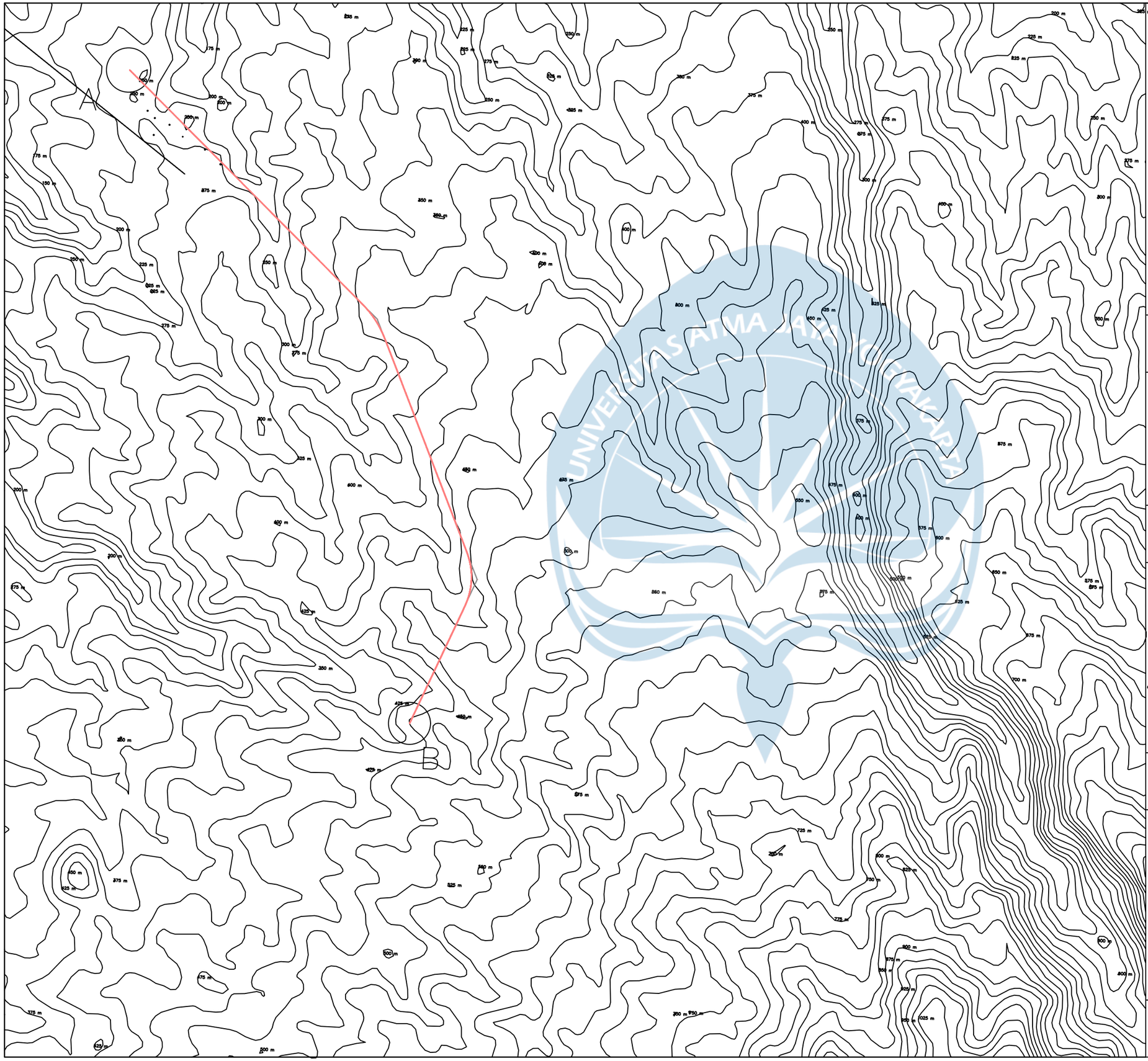

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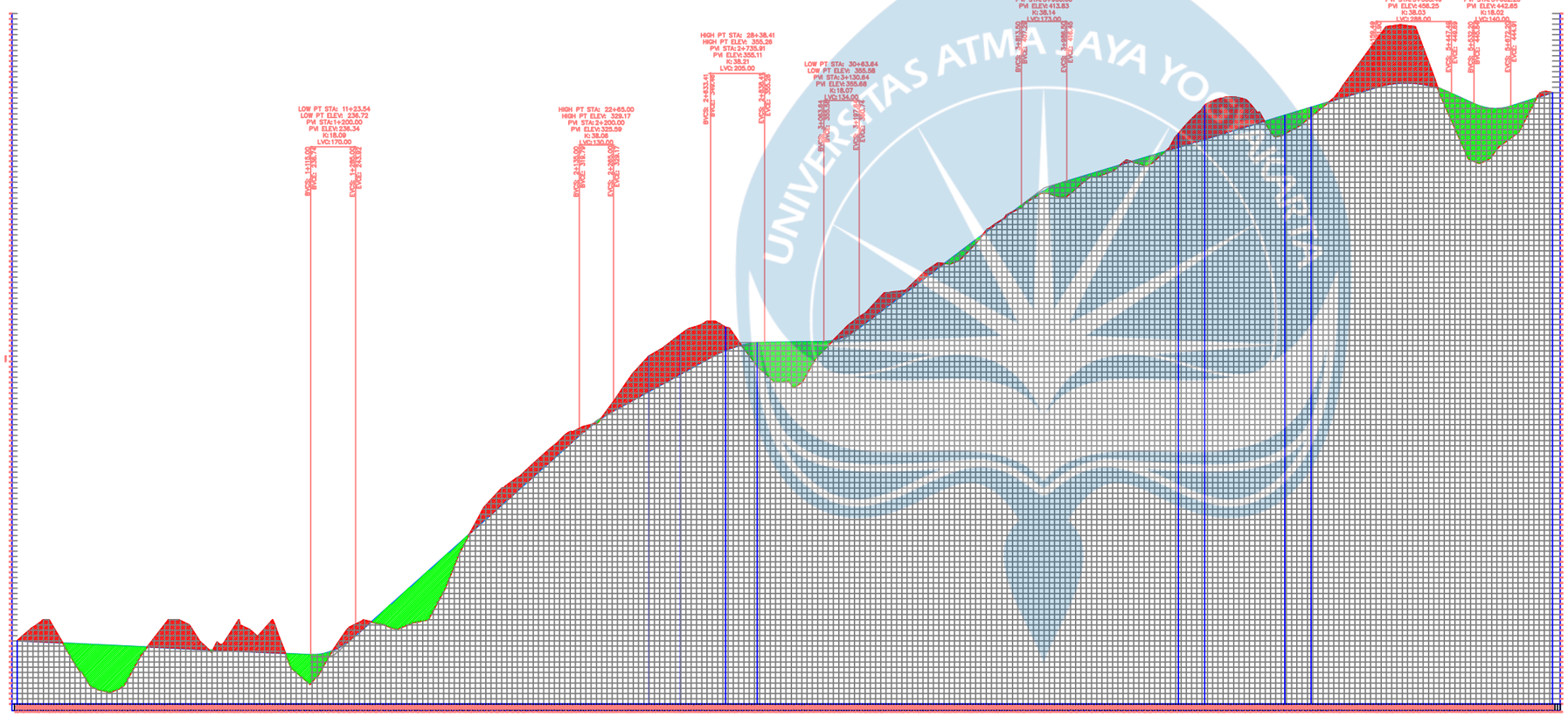
Lampiran 2

ALINEMEN VERTIKAL



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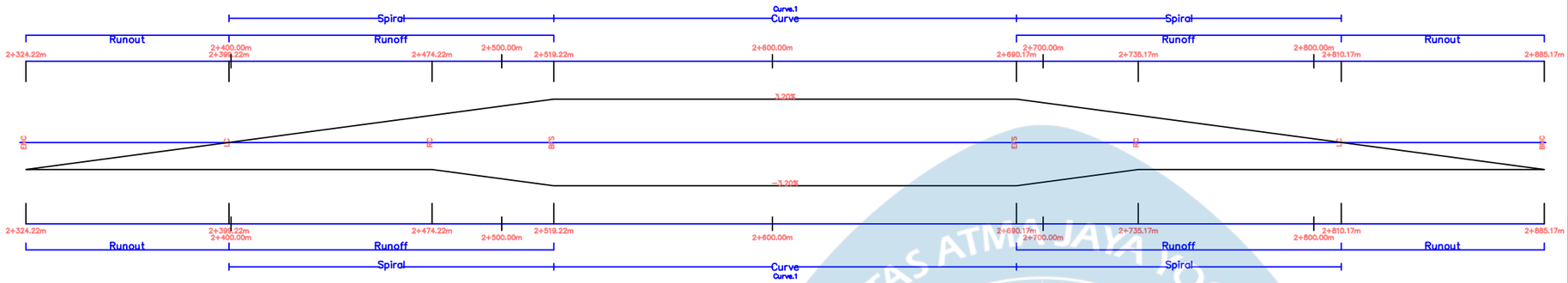
Lampiran 3

DIAGRAM SUPERELEVASI

Tikungan 1



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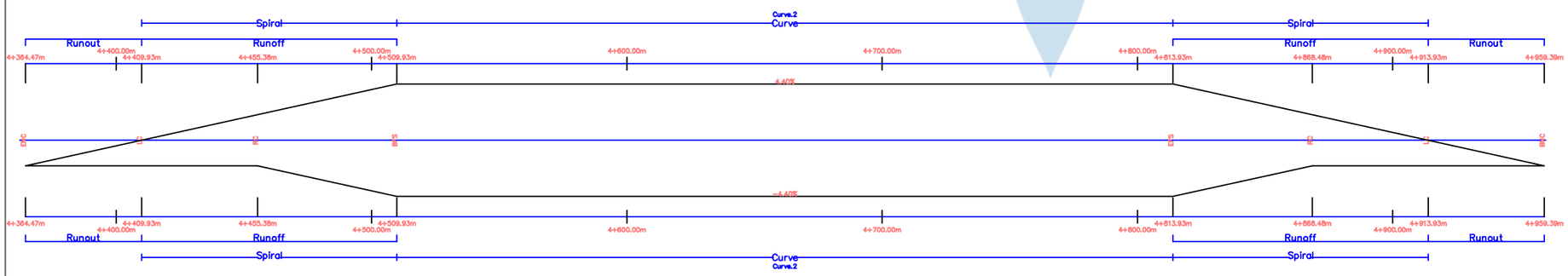

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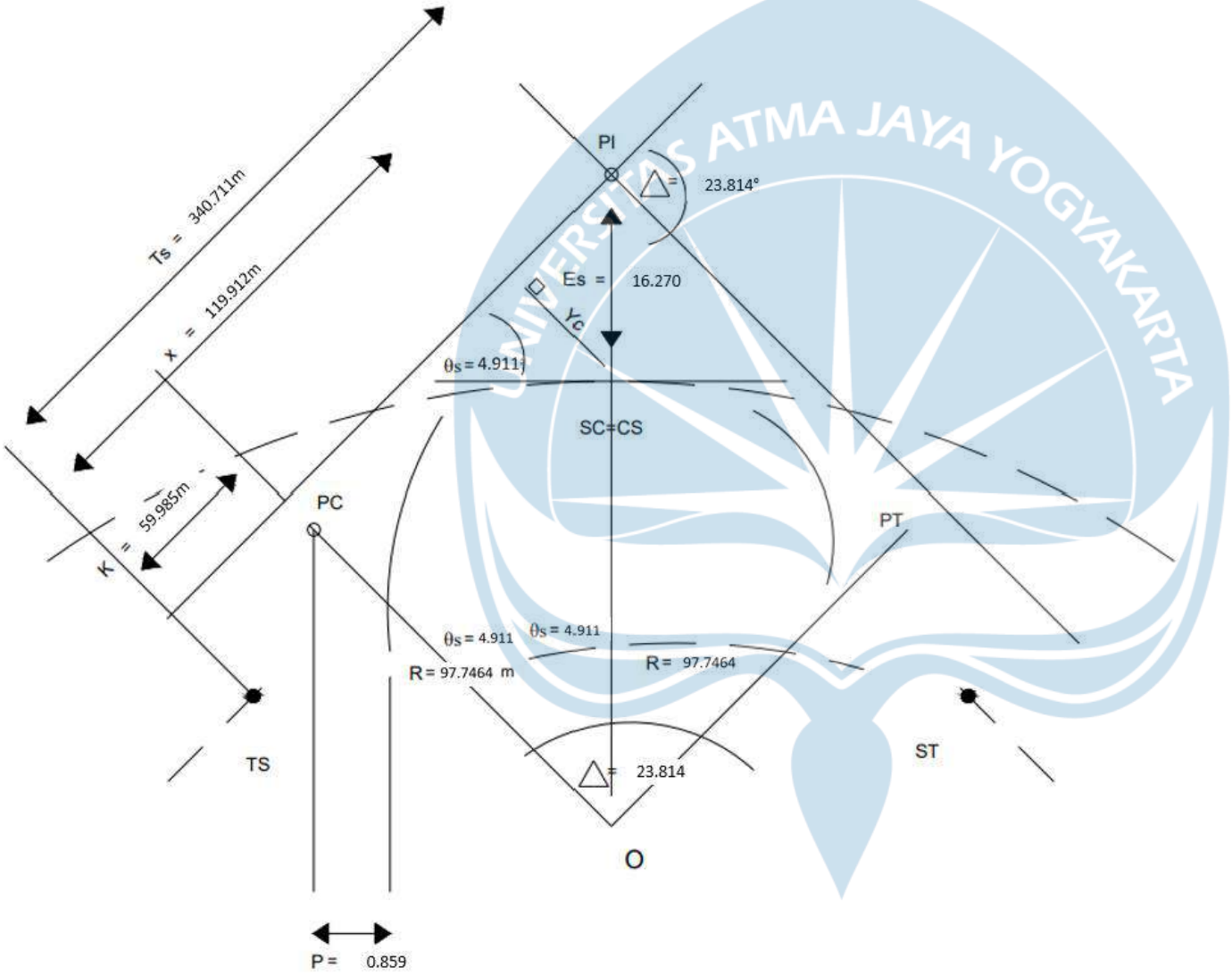
SKALA : 1:1000

Lampiran 4

TIPE TIKUNGAN SCS

TIKUNGAN SCS 1



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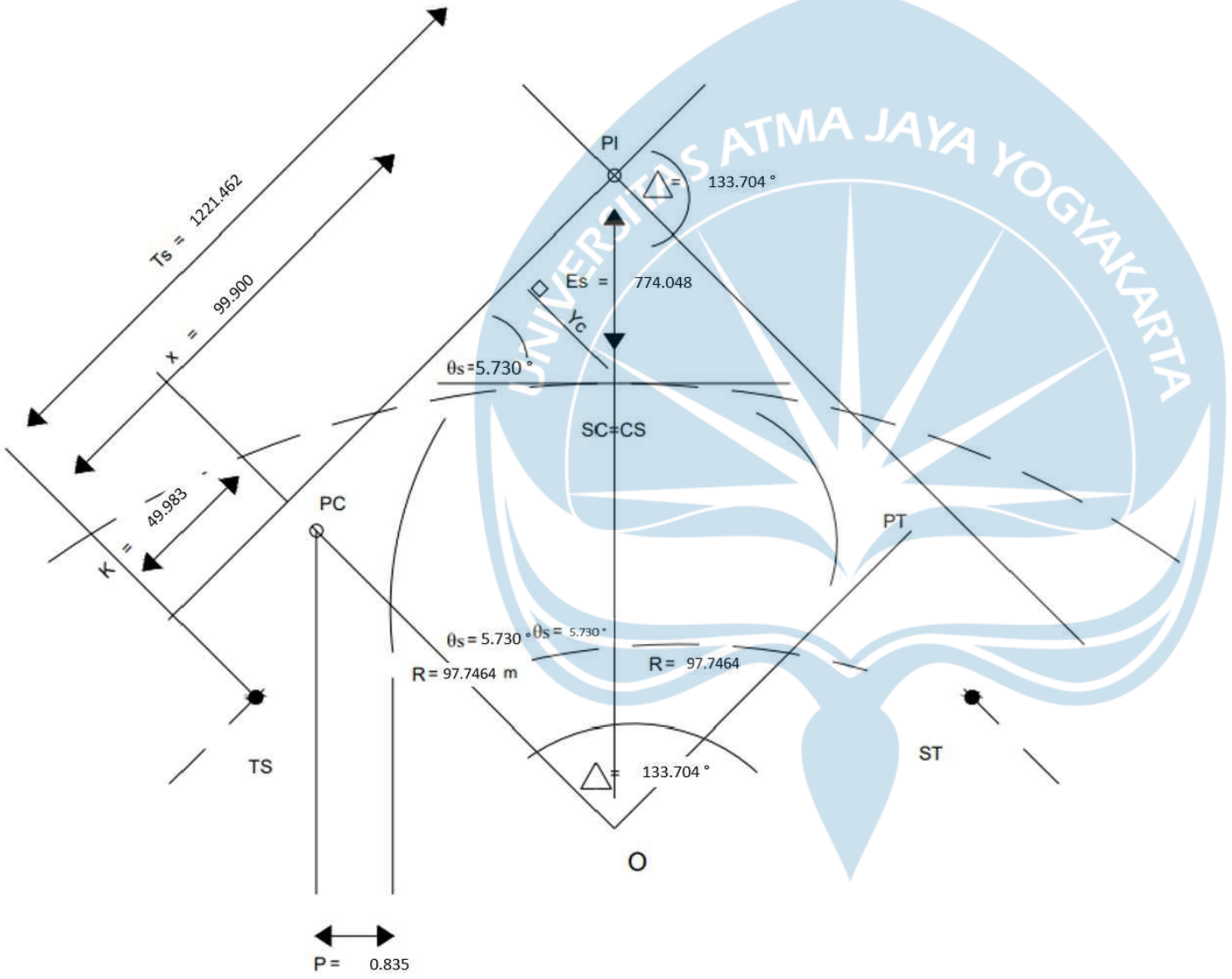
Skala	1:100

TIKUNGAN SCS 2



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Skala	1:100

Lampiran 5

POTONGAN MELINTANG JALAN TIAP STASIUN

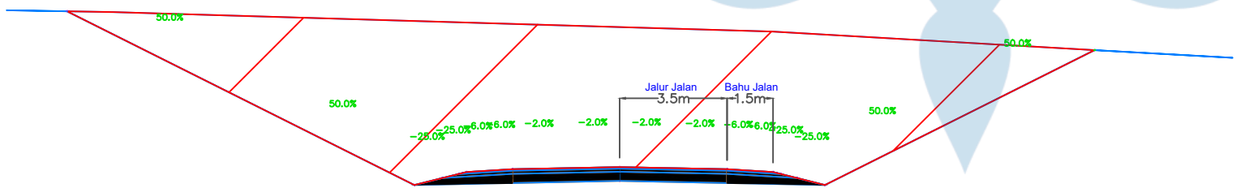
STA : 0 + 000,00

Tanah Asli
Galian
Timbunan

Material(s) at Station 0+000.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	3.45	0.00	0.00
Ground Fill	0.00	0.00	0.00

Total Volume at Station 0+000.00	
Cut Area	3.45
Fill Area	0.00
Cut Vol	0.00
Fill Vol	0.00
Cum Cut Vol	0.00
Cum Fill Vol	0.00
Net Vol	0.00

STA : 0 + 050,00



Tanah Asli
Galian
Timbunan

Material(s) at Station 0+050.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	114.92	2959.23	2959.23
Ground Fill	0.00	0.01	0.01

Total Volume at Station 0+050.00	
Cut Area	114.92
Fill Area	0.00
Cut Vol	2959.23
Fill Vol	0.01
Cum Cut Vol	2959.23
Cum Fill Vol	0.01
Net Vol	2959.22

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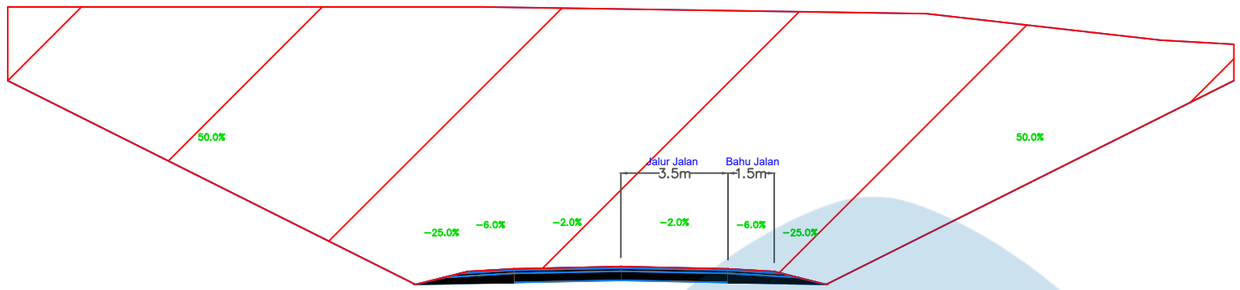
SKALA : 1:1000

STA : 0 + 100,00



Tanah Asli

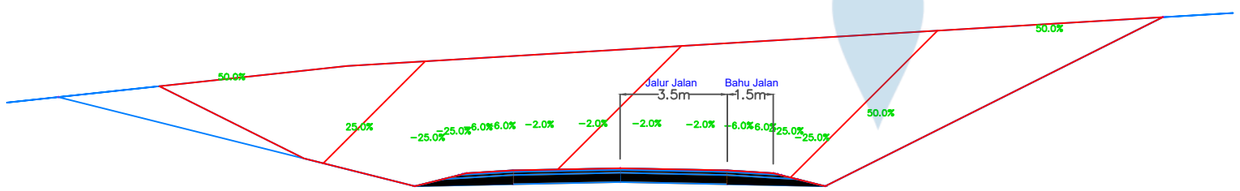
Galian

Timbunan

Material(s) at Station 0+100.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	258.34	9331.61	12290.84
Ground Fill	0.00	0.01	0.01

Total Volume at Station 0+100.00	
Cut Area	258.34
Fill Area	0.00
Cut Vol	9331.61
Fill Vol	0.01
Cum Cut Vol	12290.84
Cum Fill Vol	0.01
Net Vol	12290.83

STA : 0 + 150,00



Tanah Asli

Galian

Timbunan

Material(s) at Station 0+150.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	99.63	8949.36	21240.20
Ground Fill	0.00	0.00	0.01

Total Volume at Station 0+150.00	
Cut Area	99.63
Fill Area	0.00
Cut Vol	8949.36
Fill Vol	0.00
Cum Cut Vol	21240.20
Cum Fill Vol	0.01
Net Vol	21240.19

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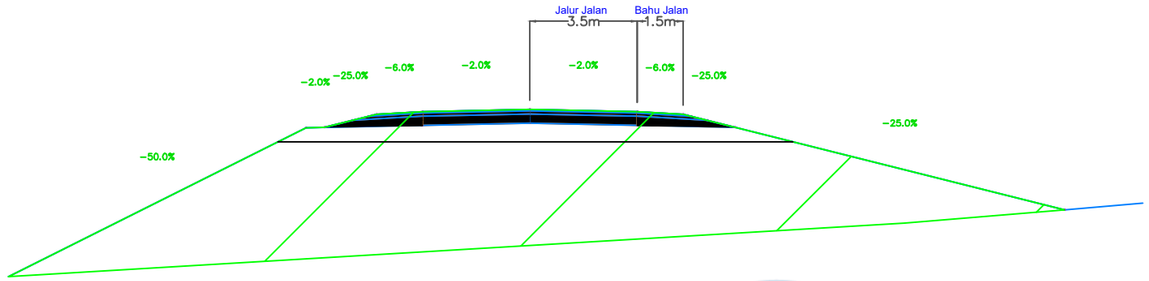
1:1000

STA : 0 + 200,00



Material(s) at Station 0+200.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	2490.75	23730.95
Ground Fill	99.79	2494.65	2494.66

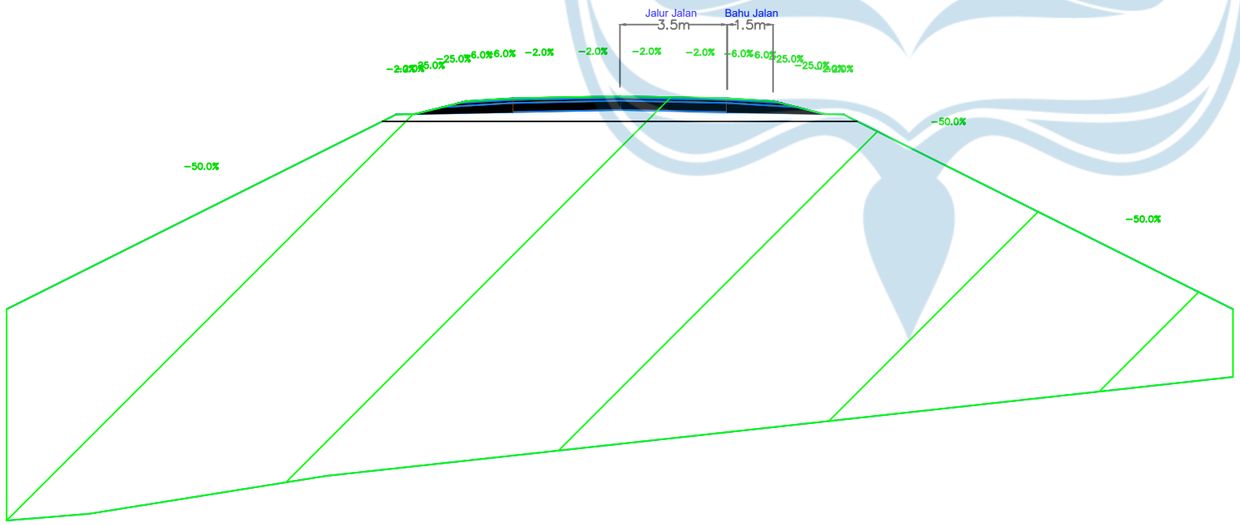
Total Volume at Station 0+200.00	
Cut Area	0.00
Fill Area	99.79
Cut Vol	2490.75
Fill Vol	2494.65
Cum Cut Vol	23730.95
Cum Fill Vol	2494.66
Net Vol	21236.29

Tanah Asli

Galian

Timbunan

STA : 0 + 250,00



Material(s) at Station 0+250.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	23730.95
Ground Fill	357.69	11436.96	13931.62

Total Volume at Station 0+250.00	
Cut Area	0.00
Fill Area	357.69
Cut Vol	0.00
Fill Vol	11436.96
Cum Cut Vol	23730.95
Cum Fill Vol	13931.62
Net Vol	9799.33

Tanah Asli

Galian

Timbunan

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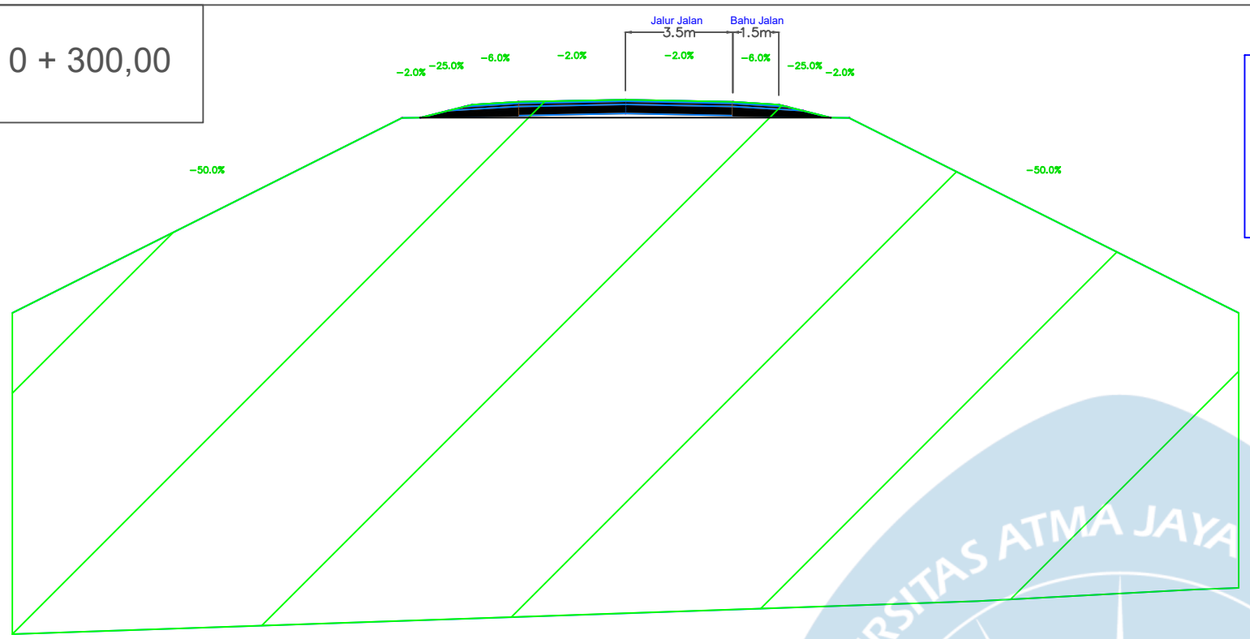
1:1000

STA : 0 + 300,00



Tanah Asli

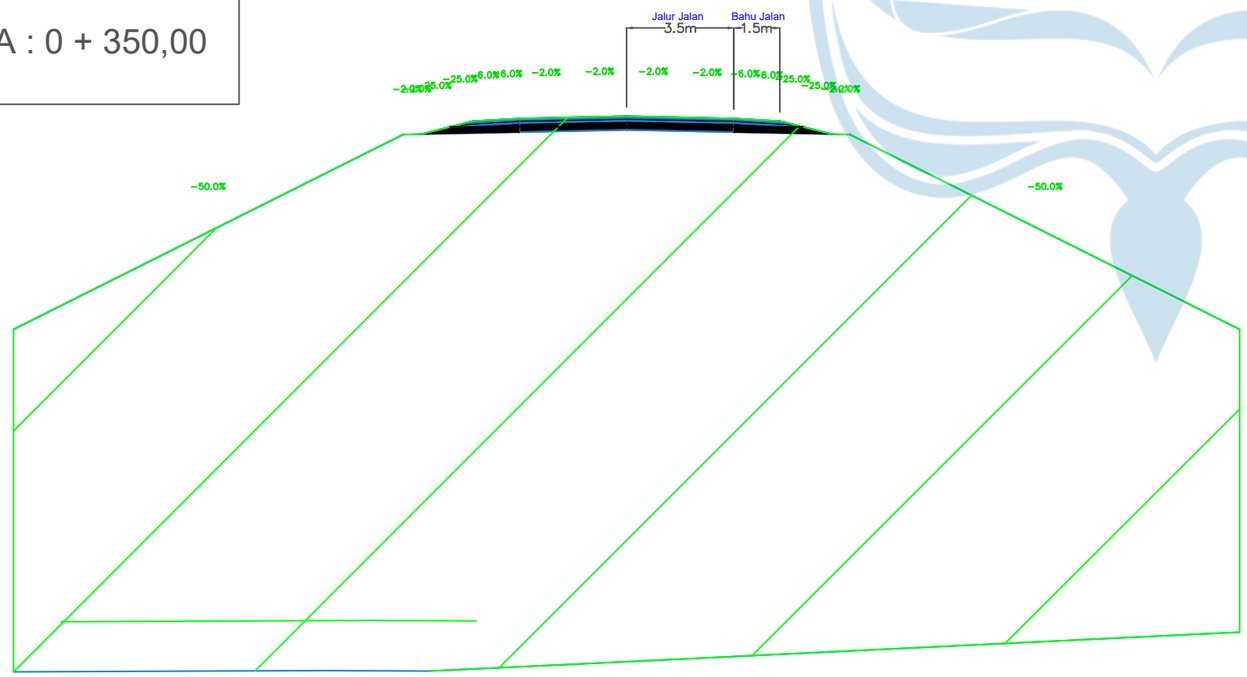
Galian

Timbunan

Material(s) at Station 0+300.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	23730.95
Ground Fill	570.72	23210.37	37141.99

Total Volume at Station 0+300.00	
Cut Area	0.00
Fill Area	570.72
Cut Vol	0.00
Fill Vol	23210.37
Cum Cut Vol	23730.95
Cum Fill Vol	37141.99
Net Vol	-13411.04

STA : 0 + 350,00



Tanah Asli

Galian

Timbunan

Material(s) at Station 0+350.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	23730.95
Ground Fill	608.55	29481.88	66623.87

Total Volume at Station 0+350.00	
Cut Area	0.00
Fill Area	608.55
Cut Vol	0.00
Fill Vol	29481.88
Cum Cut Vol	23730.95
Cum Fill Vol	66623.87
Net Vol	-42892.92

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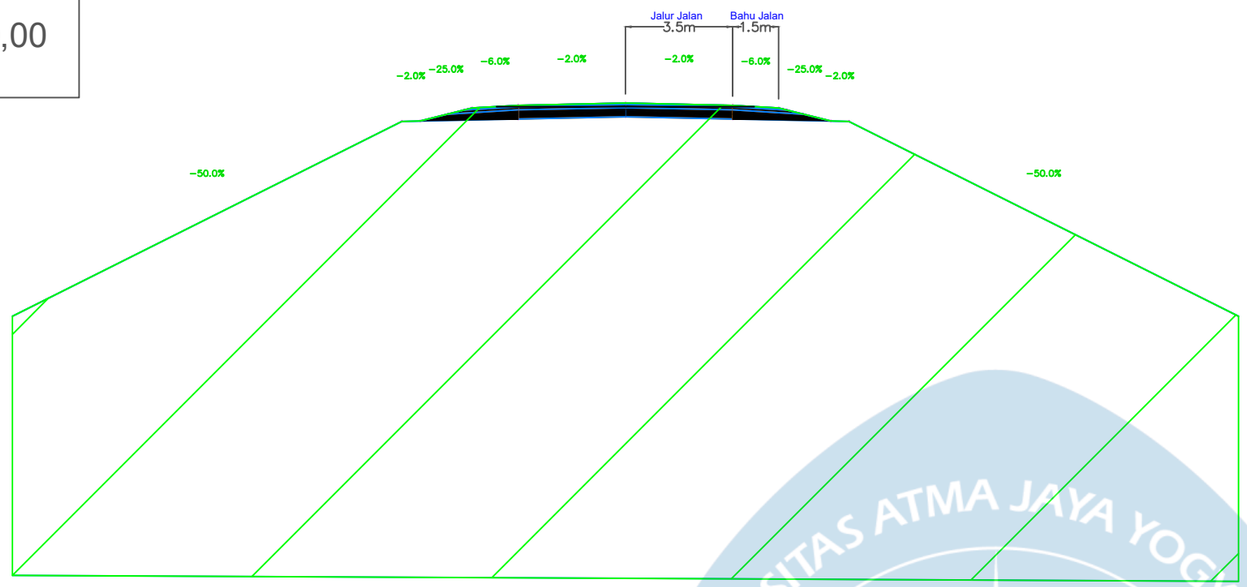
1:1000

STA : 0 + 400,00



Tanah Asli

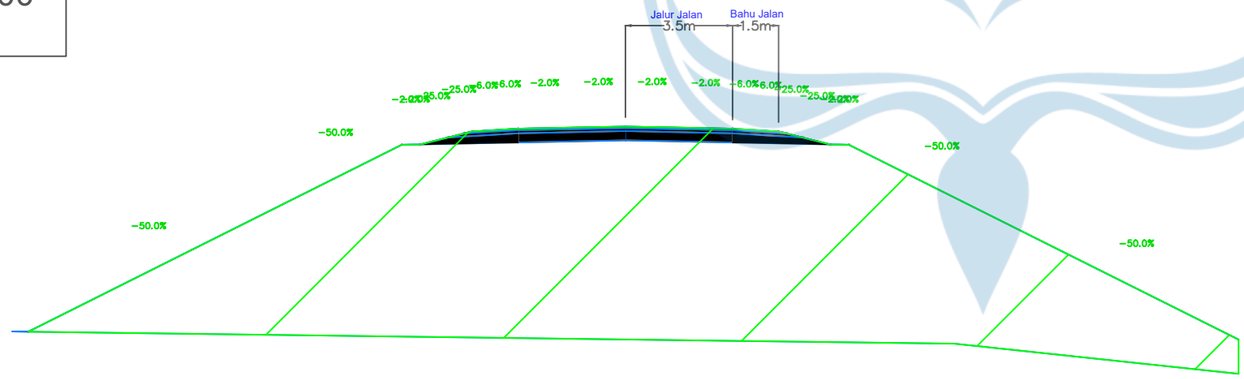
Galian

Timbunan

Material(s) at Station 0+400.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	23730.95
Ground Fill	521.39	28248.68	94872.55

Total Volume at Station 0+400.00	
Cut Area	0.00
Fill Area	521.39
Cut Vol	0.00
Fill Vol	28248.68
Cum Cut Vol	23730.95
Cum Fill Vol	94872.55
Net Vol	-71141.60

STA : 0 + 450,00



Tanah Asli

Galian

Timbunan

Material(s) at Station 0+450.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	23730.95
Ground Fill	183.38	17619.39	112491.94

Total Volume at Station 0+450.00	
Cut Area	0.00
Fill Area	183.38
Cut Vol	0.00
Fill Vol	17619.39
Cum Cut Vol	23730.95
Cum Fill Vol	112491.94
Net Vol	-88760.98

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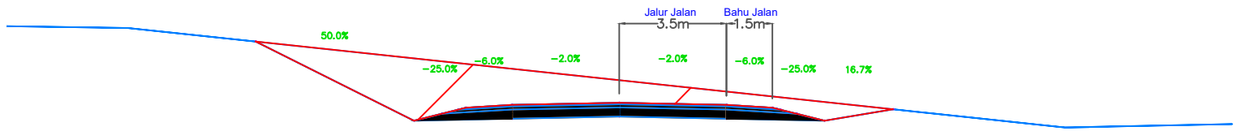
1:1000

STA : 0 + 500,00



Tanah Asli

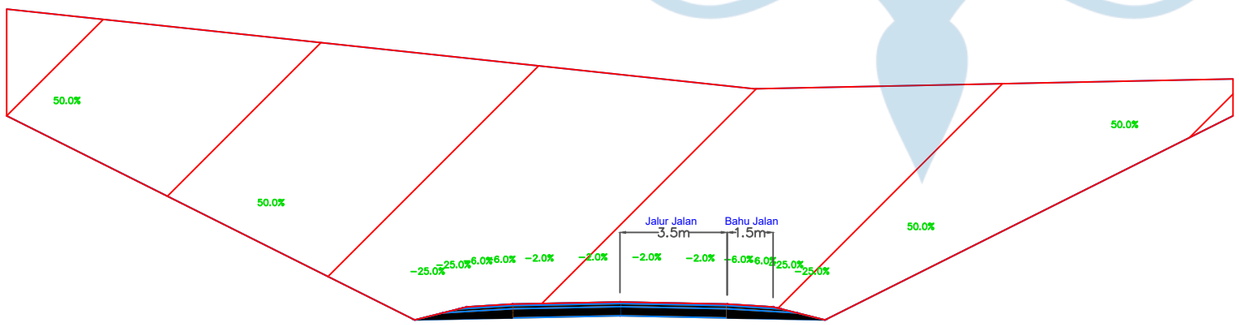
Galian

Timbunan

Material(s) at Station 0+500.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	17.70	442.49	24173.44
Ground Fill	0.00	4584.52	117076.46

Total Volume at Station 0+500.00	
Cut Area	17.70
Fill Area	0.00
Cut Vol	442.49
Fill Vol	4584.52
Cum Cut Vol	24173.44
Cum Fill Vol	117076.46
Net Vol	-92903.02

STA : 0 + 550,00



Tanah Asli

Galian

Timbunan

Material(s) at Station 0+550.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	241.14	6471.04	30644.48
Ground Fill	0.00	0.00	117076.46

Total Volume at Station 0+550.00	
Cut Area	241.14
Fill Area	0.00
Cut Vol	6471.04
Fill Vol	0.00
Cum Cut Vol	30644.48
Cum Fill Vol	117076.46
Net Vol	-86431.98

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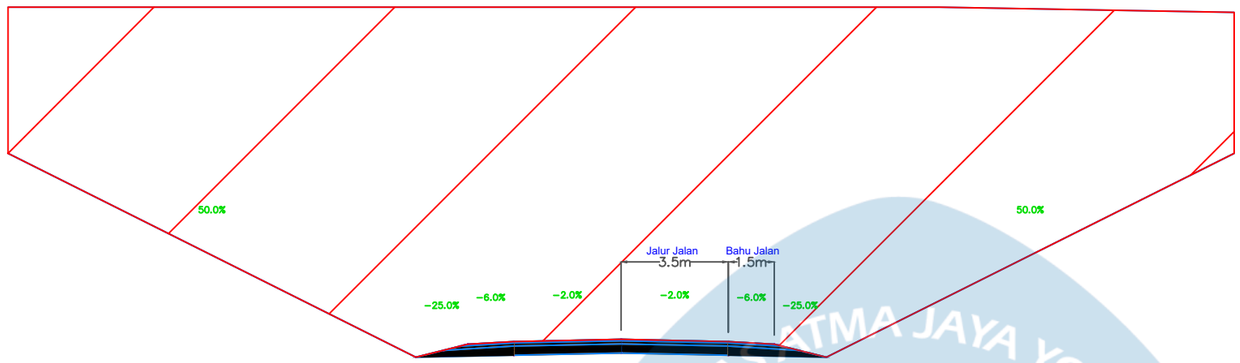
SKALA : 1:1000

STA : 0 + 600,00



Material(s) at Station 0+600.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	361.33	15061.71	45706.18
Ground Fill	0.00	0.00	117076.46

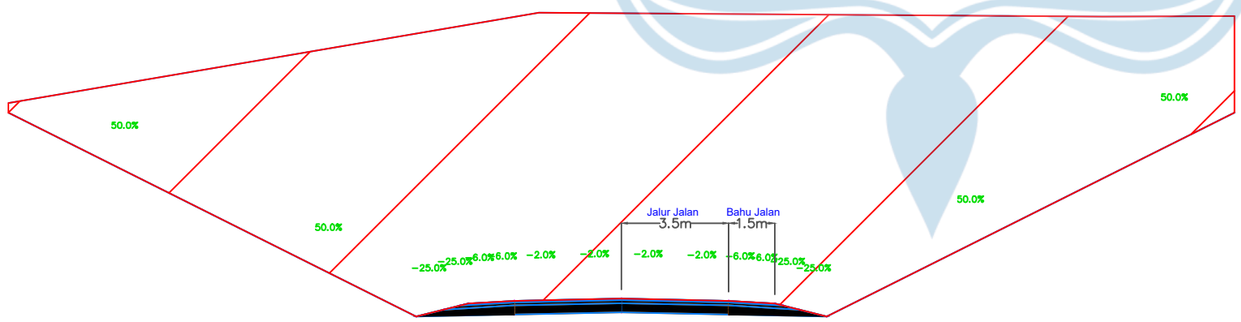
Total Volume at Station 0+600.00	
Cut Area	361.33
Fill Area	0.00
Cut Vol	15061.71
Fill Vol	0.00
Cum Cut Vol	45706.18
Cum Fill Vol	117076.46
Net Vol	-71370.28

Tanah Asli

Galian

Timbunan

STA : 0 + 650,00



Material(s) at Station 0+650.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	274.73	15901.50	61607.68
Ground Fill	0.00	0.00	117076.46

Total Volume at Station 0+650.00	
Cut Area	274.73
Fill Area	0.00
Cut Vol	15901.50
Fill Vol	0.00
Cum Cut Vol	61607.68
Cum Fill Vol	117076.46
Net Vol	-55468.78

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

Stanislaus Jivanta Danitza (190217591)
Adelia Sherlly Quinones (200218232)
Tsabita Qotrunnada (200218303)

Diperiksa Oleh :

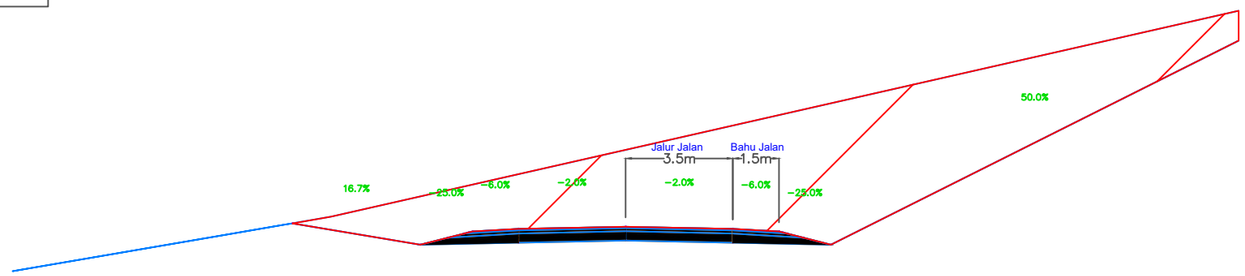
Alan Mikha Wijaya

Disetujui Oleh :

Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 0 + 700,00



Material(s) at Station 0+700.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	75.69	8760.55	70368.23
Ground Fill	0.00	0.00	117076.46

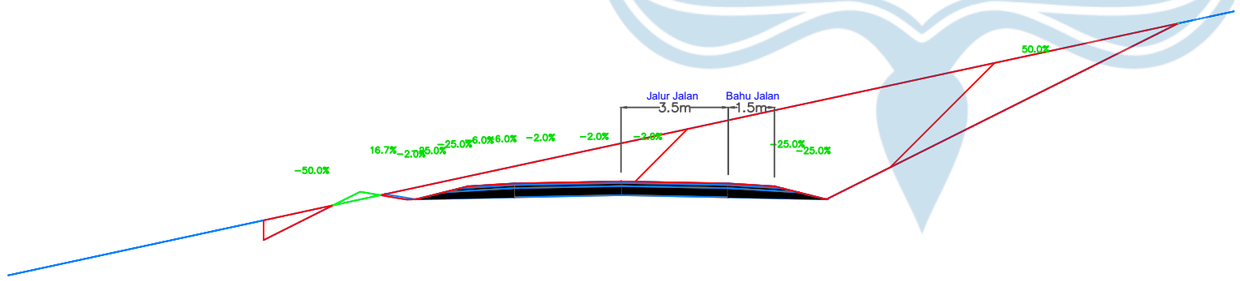
Total Volume at Station 0+700.00	
Cut Area	75.69
Fill Area	0.00
Cut Vol	8760.55
Fill Vol	0.00
Cum Cut Vol	70368.23
Cum Fill Vol	117076.46
Net Vol	-46708.23

Tanah Asli

Galian

Timbunan

STA : 0 + 750,00



Material(s) at Station 0+750.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	38.16	2846.17	73214.40
Ground Fill	0.20	4.93	117081.39

Total Volume at Station 0+750.00	
Cut Area	38.16
Fill Area	0.20
Cut Vol	2846.17
Fill Vol	4.93
Cum Cut Vol	73214.40
Cum Fill Vol	117081.39
Net Vol	-43867.00

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

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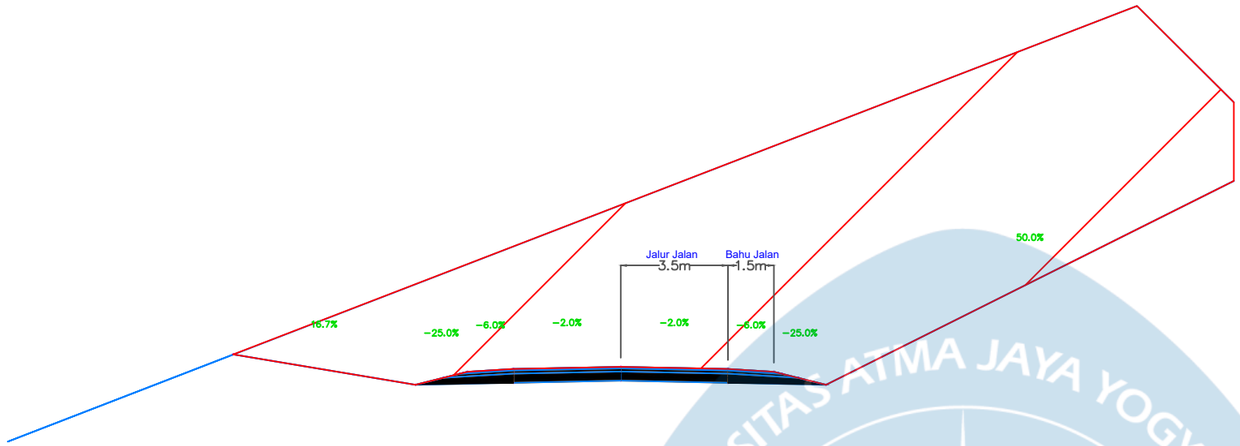
Alan Mikha Wijaya

Disetujui Oleh :

Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 0 + 800,00



Material(s) at Station 0+800.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	177.67	5395.80	78610.20
Ground Fill	0.00	4.93	117086.33

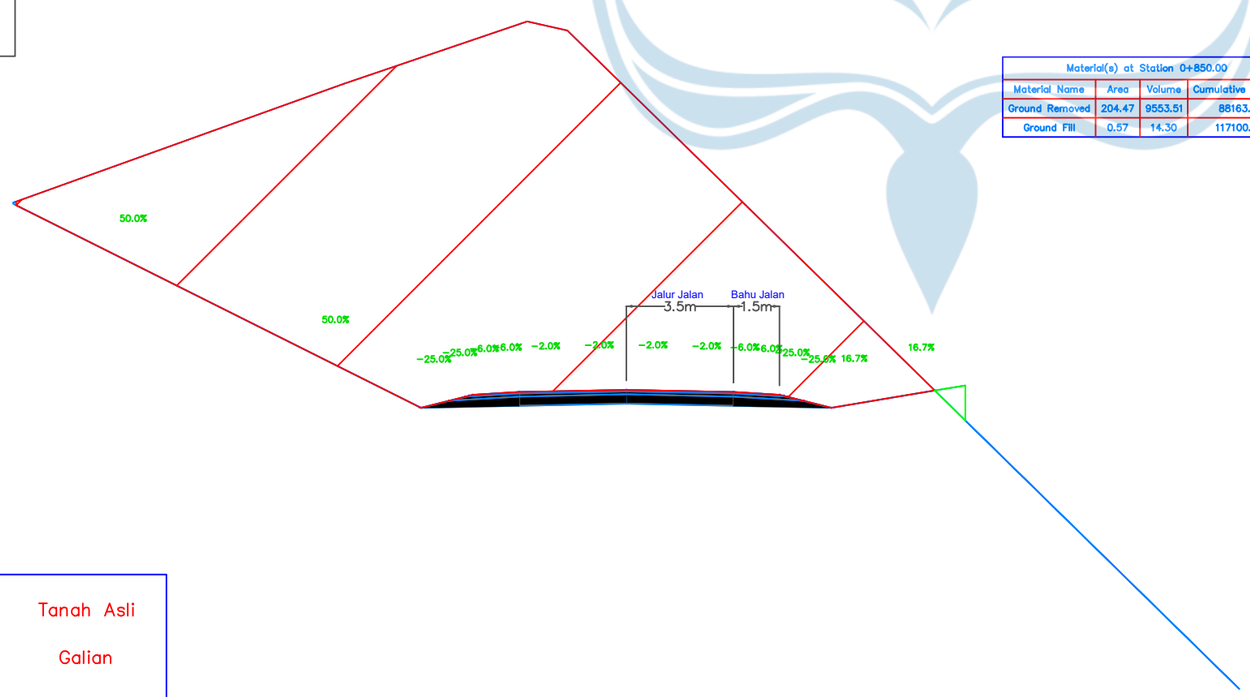
Total Volume at Station 0+800.00	
Cut Area	177.67
Fill Area	0.00
Cut Vol	5395.80
Fill Vol	4.93
Cum Cut Vol	78610.20
Cum Fill Vol	117086.33
Net Vol	-38476.13

Tanah Asli

Galian

Timbunan

STA : 0 + 850,00



Material(s) at Station 0+850.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	204.47	9553.51	88163.71
Ground Fill	0.57	14.30	117100.63

Total Volume at Station 0+850.00	
Cut Area	204.47
Fill Area	0.57
Cut Vol	9553.51
Fill Vol	14.30
Cum Cut Vol	88163.71
Cum Fill Vol	117100.63
Net Vol	-28936.92

Tanah Asli

Galian

Timbunan

UNIVERSITAS ATMA JAYA YOGYAKARTA

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

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Diperiksa Oleh :

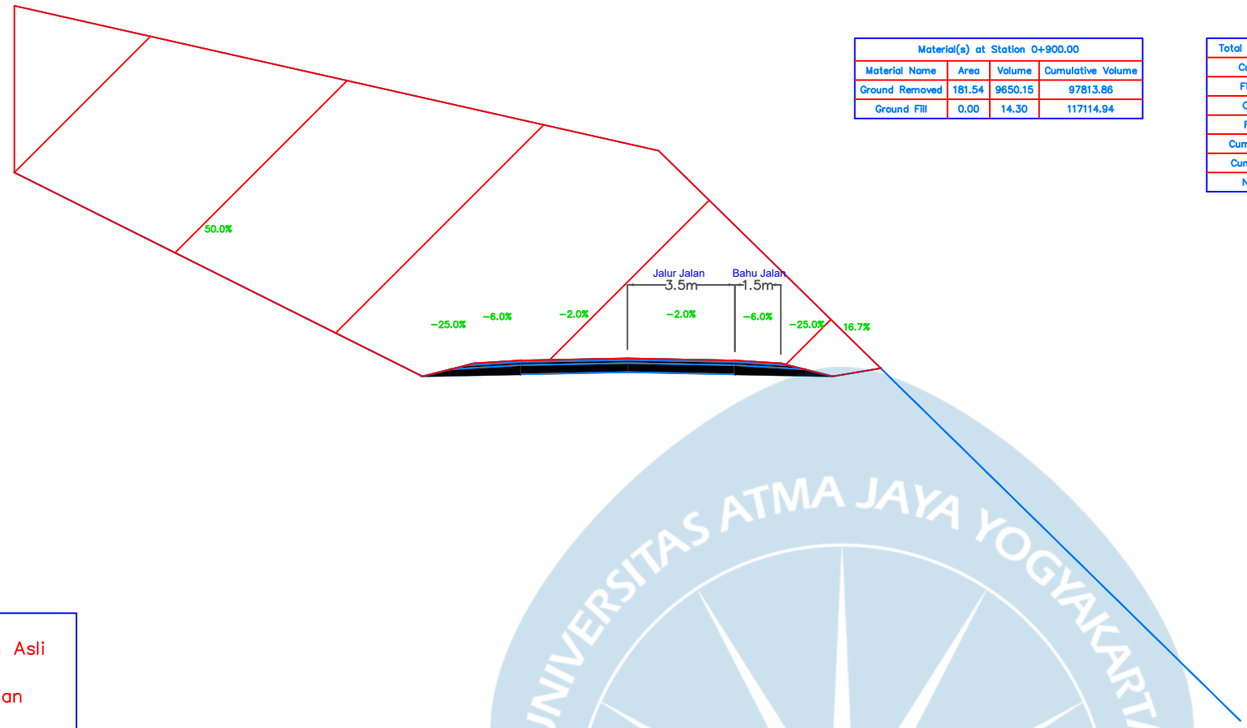
Alan Mikha Wijaya

Disetujui Oleh :

Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 0 + 900,00



Material(s) at Station 0+900.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	181.54	9650.15	97813.86
Ground Fill	0.00	14.30	117114.94

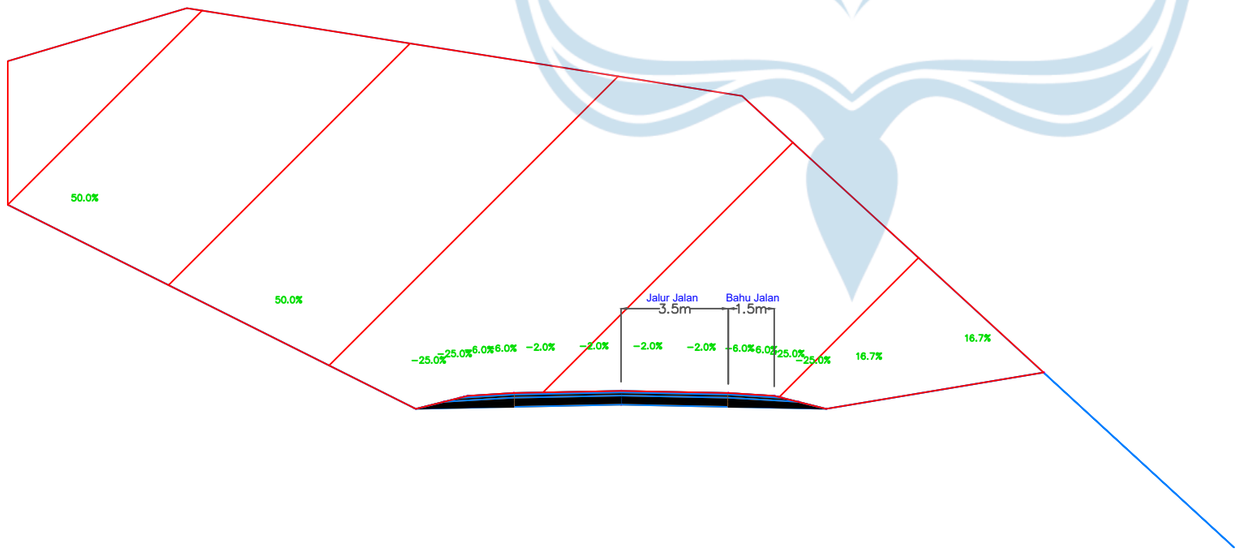
Total Volume at Station 0+900.00	
Cut Area	181.54
Fill Area	0.00
Cut Vol	9650.15
Fill Vol	14.30
Cum Cut Vol	97813.86
Cum Fill Vol	117114.94
Net Vol	-19301.08

Tanah Asli

Galian

Timbunan

STA : 0 + 950,00



Material(s) at Station 0+950.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	283.57	11627.63	109441.49
Ground Fill	0.00	0.00	117114.94

Total Volume at Station 0+950.00	
Cut Area	283.57
Fill Area	0.00
Cut Vol	11627.63
Fill Vol	0.00
Cum Cut Vol	109441.49
Cum Fill Vol	117114.94
Net Vol	-7673.45

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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Disetujui Oleh :

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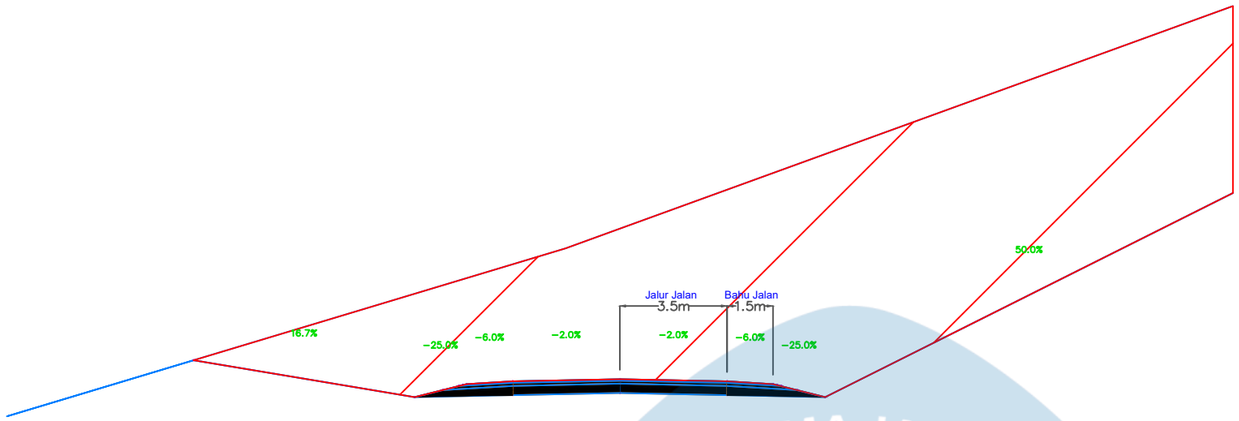
SKALA : 1:1000

STA : 1 + 000,00



Material(s) at Station 1+000.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	173.71	11432.02	120873.50
Ground Fill	0.00	0.00	117114.94

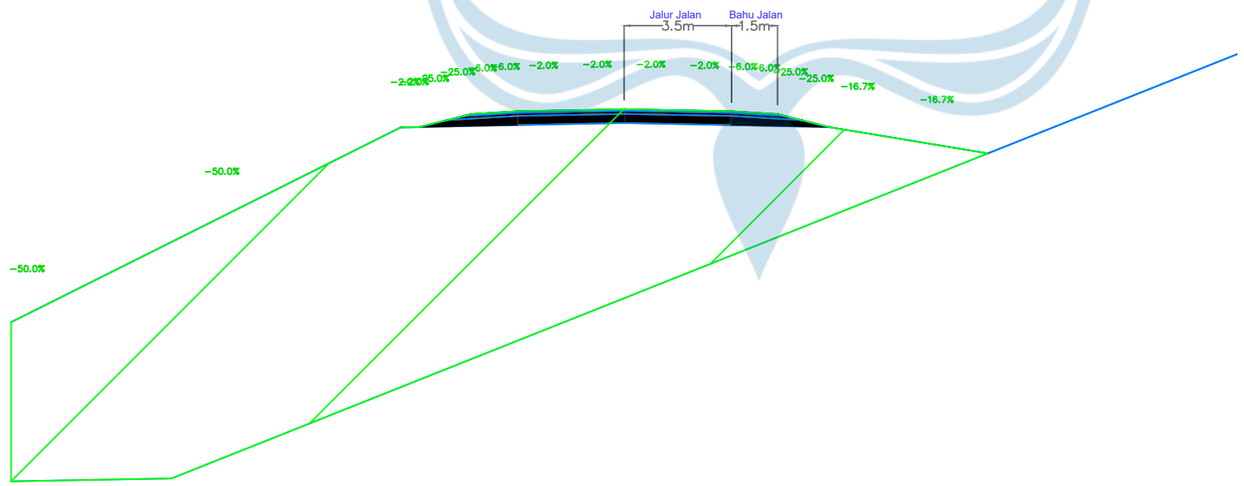
Total Volume at Station 1+000.00	
Cut Area	173.71
Fill Area	0.00
Cut Vol	11432.02
Fill Vol	0.00
Cum Cut Vol	120873.50
Cum Fill Vol	117114.94
Net Vol	3758.57

Tanah Asli

Galian

Timbunan

STA : 1 + 050,00



Material(s) at Station 1+050.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	4342.86	125216.37
Ground Fill	187.47	4686.64	121801.58

Total Volume at Station 1+050.00	
Cut Area	0.00
Fill Area	187.47
Cut Vol	4342.86
Fill Vol	4686.64
Cum Cut Vol	125216.37
Cum Fill Vol	121801.58
Net Vol	3414.79

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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Diperiksa Oleh :

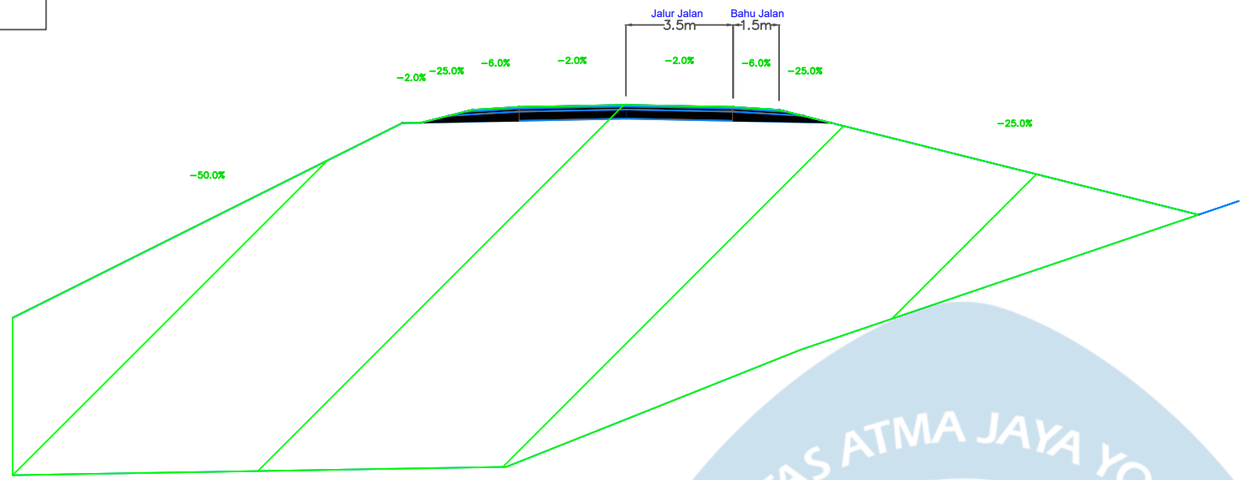
Alan Mikha Wijaya

Disetujui Oleh :

Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 1 + 100,00



Material(s) at Station 1+100.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	125216.37
Ground Fill	287.33	11869.88	133671.46

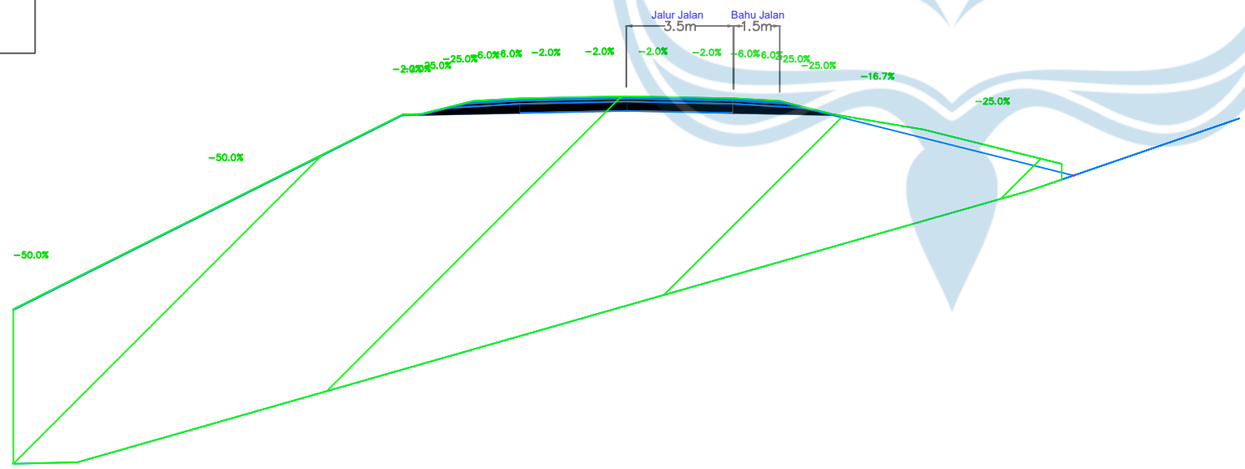
Total Volume at Station 1+100.00	
Cut Area	0.00
Fill Area	287.33
Cut Vol	0.00
Fill Vol	11869.88
Cum Cut Vol	125216.37
Cum Fill Vol	133671.46
Net Vol	-8455.09

Tanah Asli

Galian

Timbunan

STA : 1 + 150,00



Material(s) at Station 1+150.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	125216.37
Ground Fill	201.30	12215.68	145887.14

Total Volume at Station 1+150.00	
Cut Area	0.00
Fill Area	201.30
Cut Vol	0.00
Fill Vol	12215.68
Cum Cut Vol	125216.37
Cum Fill Vol	145887.14
Net Vol	-20670.77

Tanah Asli

Galian

Timbunan

UNIVERSITAS ATMA JAYA YOGYAKARTA

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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Diperiksa Oleh :

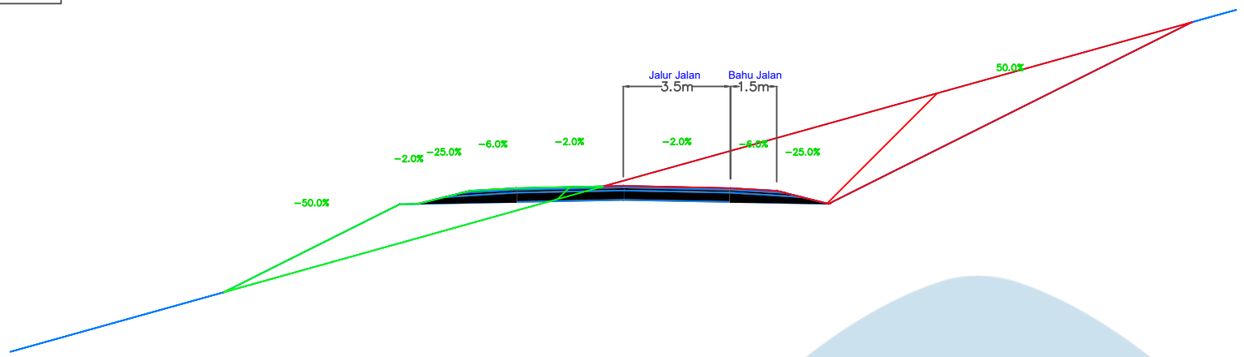
Alan Mikha Wijaya

Disetujui Oleh :

Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 1 + 200,00



Tanah Asli

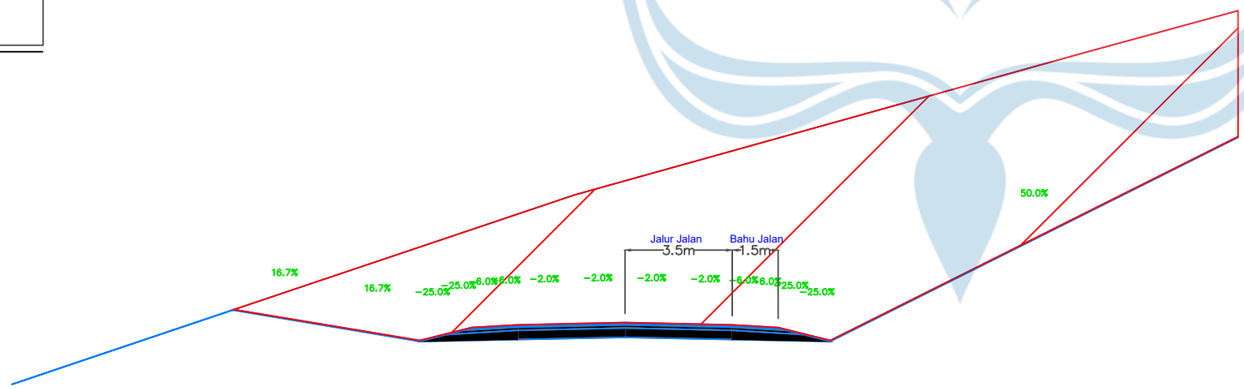
Galian

Timbunan

Material(s) at Station 1+200.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	23.88	597.07	125813.44
Ground Fill	8.61	5247.60	151134.74

Total Volume at Station 1+200.00	
Cut Area	23.88
Fill Area	8.61
Cut Vol	597.07
Fill Vol	5247.60
Cum Cut Vol	125813.44
Cum Fill Vol	151134.74
Net Vol	-25321.30

STA : 2 + 250,00



Tanah Asli

Galian

Timbunan

Material(s) at Station 1+250.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	146.75	4265.91	130079.34
Ground Fill	0.00	215.17	151349.91

Total Volume at Station 1+250.00	
Cut Area	146.75
Fill Area	0.00
Cut Vol	4265.91
Fill Vol	215.17
Cum Cut Vol	130079.34
Cum Fill Vol	151349.91
Net Vol	-21270.57

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

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Adelia Sherlly Quinones (200218232)
Tsabita Qotrunnada (200218303)

Diperiksa Oleh :

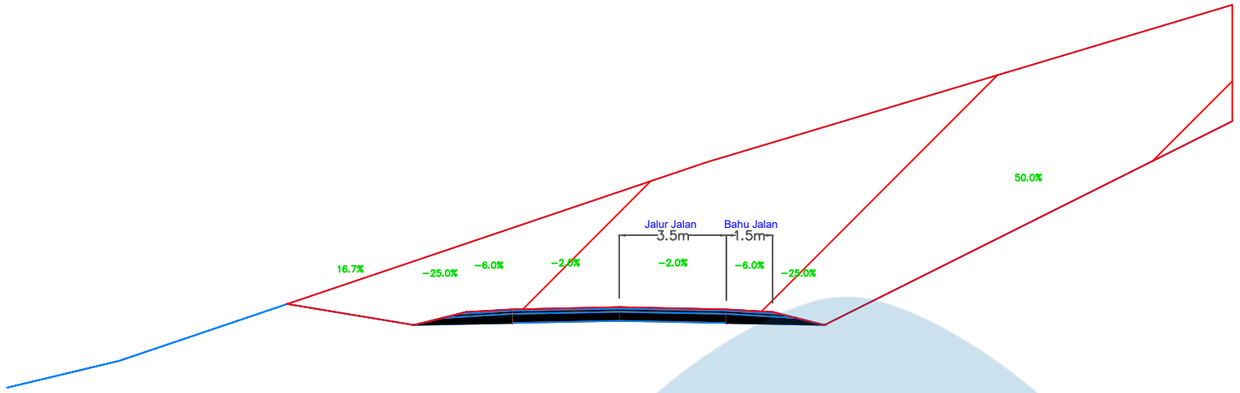
Alan Mikha Wijaya

Disetujui Oleh :

Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 1 + 300,00



Material(s) at Station 1+300.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	124.53	6782.05	136861.39
Ground Fill	0.00	0.00	151349.91

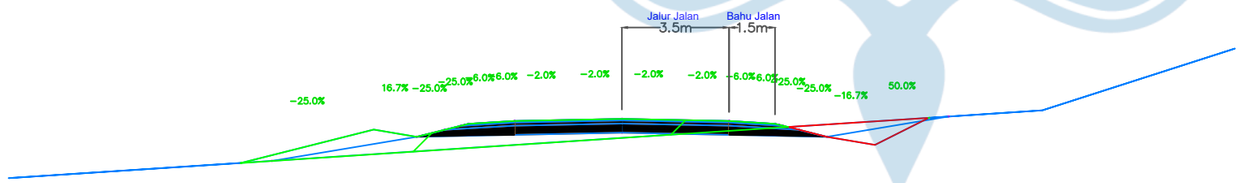
Total Volume at Station 1+300.00	
Cut Area	124.53
Fill Area	0.00
Cut Vol	6782.05
Fill Vol	0.00
Cum Cut Vol	136861.39
Cum Fill Vol	151349.91
Net Vol	-14488.52

Tanah Asli

Galian

Timbunan

STA : 1 + 350,00



Material(s) at Station 1+350.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	1.83	3158.94	140020.32
Ground Fill	9.38	234.42	151584.33

Total Volume at Station 1+350.00	
Cut Area	1.83
Fill Area	9.38
Cut Vol	3158.94
Fill Vol	234.42
Cum Cut Vol	140020.32
Cum Fill Vol	151584.33
Net Vol	-11564.01

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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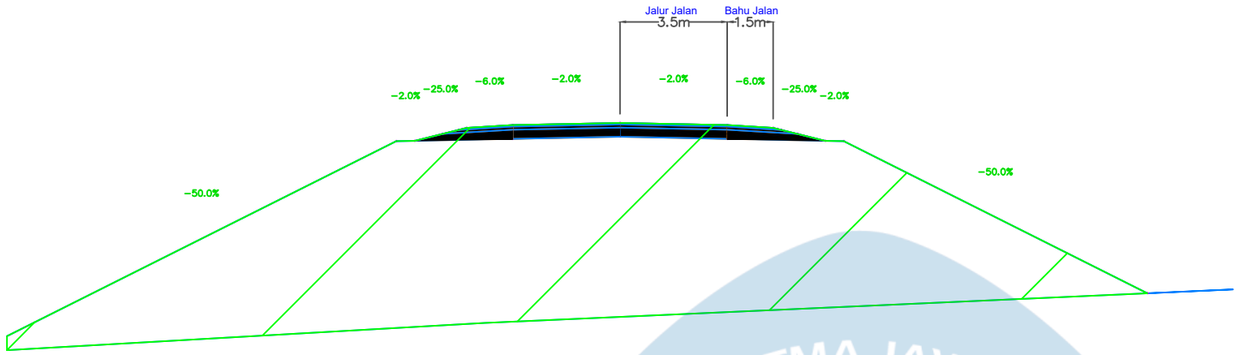
Alan Mikha Wijaya

Disetujui Oleh :

Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 1 + 400,00



Material(s) at Station 1+400.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	45.73	140066.05
Ground Fill	158.17	4188.69	155773.02

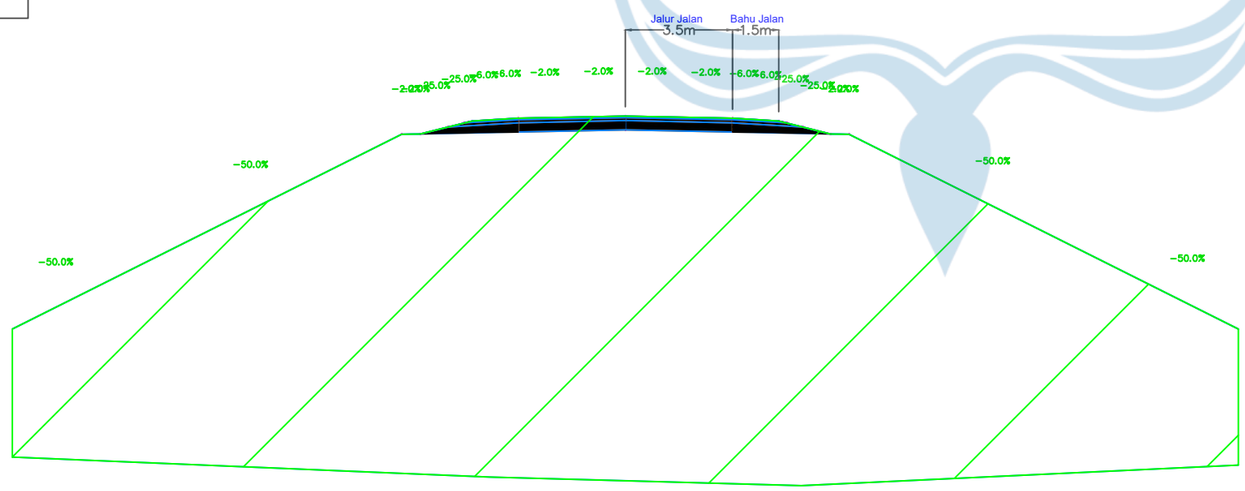
Total Volume at Station 1+400.00	
Cut Area	0.00
Fill Area	158.17
Cut Vol	45.73
Fill Vol	4188.69
Cum Cut Vol	140066.05
Cum Fill Vol	155773.02
Net Vol	-15706.98

Tanah Asli

Galian

Timbunan

STA : 1 + 450,00



Material(s) at Station 1+450.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	140066.05
Ground Fill	367.90	13151.85	168924.88

Total Volume at Station 1+450.00	
Cut Area	0.00
Fill Area	367.90
Cut Vol	0.00
Fill Vol	13151.85
Cum Cut Vol	140066.05
Cum Fill Vol	168924.88
Net Vol	-28858.83

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

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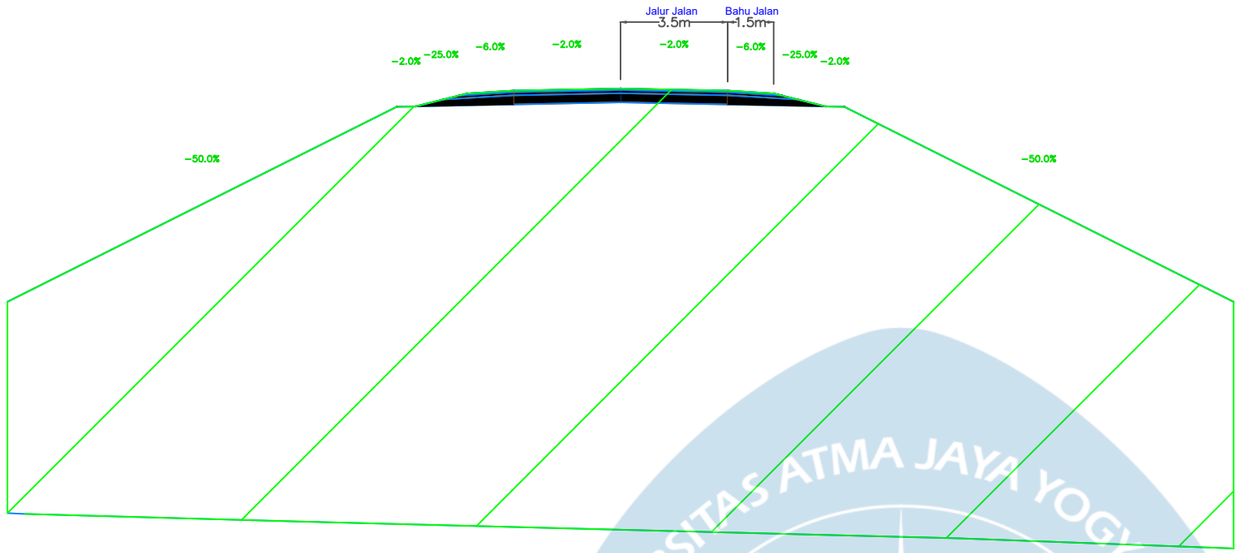
SKALA : 1:1000

STA : 1 + 500,00



Tanah Asli

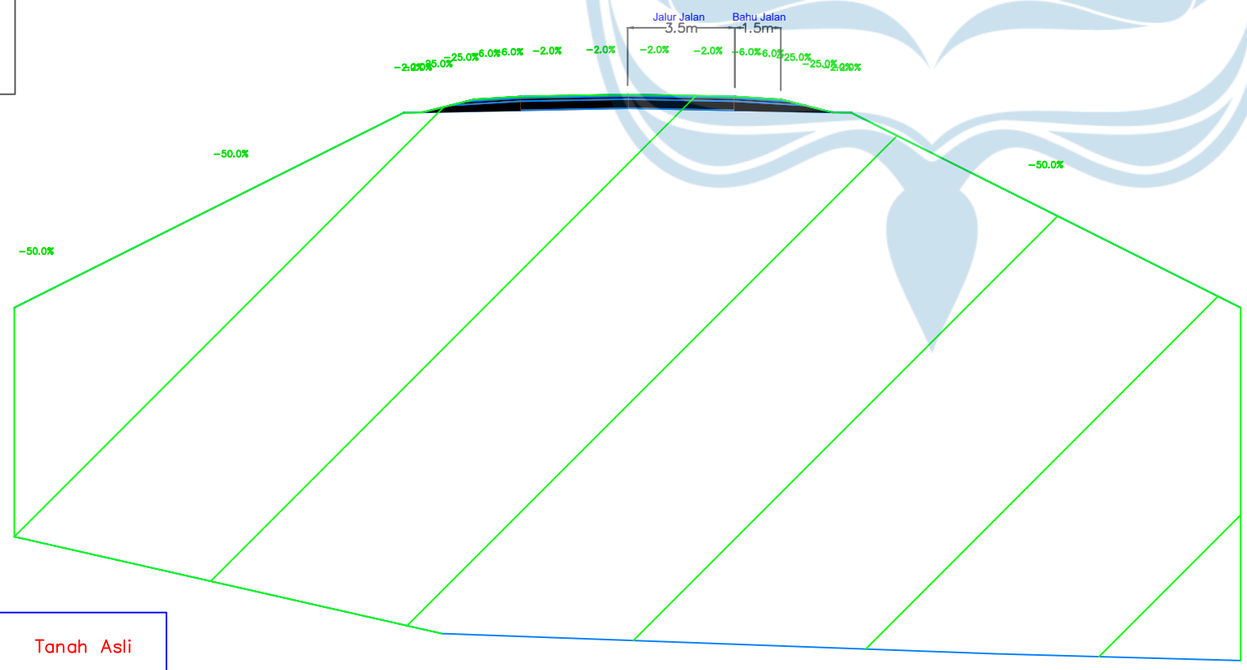
Galian

Timbunan

Material(s) at Station 1+500.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	140066.05
Ground Fill	477.30	21130.17	190055.05

Total Volume at Station 1+500.00	
Cut Area	0.00
Fill Area	477.30
Cut Vol	0.00
Fill Vol	21130.17
Cum Cut Vol	140066.05
Cum Fill Vol	190055.05
Net Vol	-49989.00

STA : 1 + 550,00



Tanah Asli

Galian

Timbunan

Material(s) at Station 1+550.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	140066.05
Ground Fill	594.76	26801.56	216856.61

Total Volume at Station 1+550.00	
Cut Area	0.00
Fill Area	594.76
Cut Vol	0.00
Fill Vol	26801.56
Cum Cut Vol	140066.05
Cum Fill Vol	216856.61
Net Vol	-76790.56

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

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Tsabita Qotrunnada (200218303)

Diperiksa Oleh :

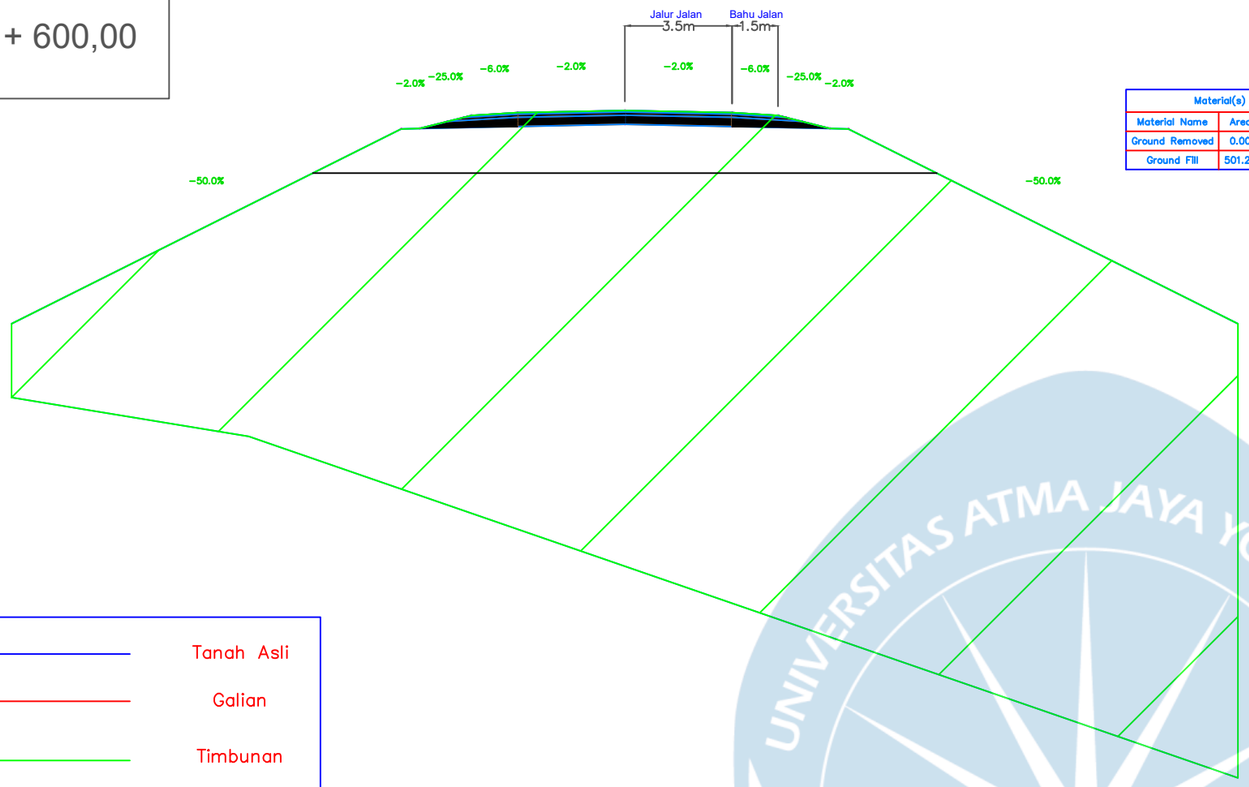
Alan Mikha Wijaya

Disetujui Oleh :

Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 1 + 600,00



Material(s) at Station 1+600.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	140066.05
Ground Fill	501.26	27400.47	244257.08

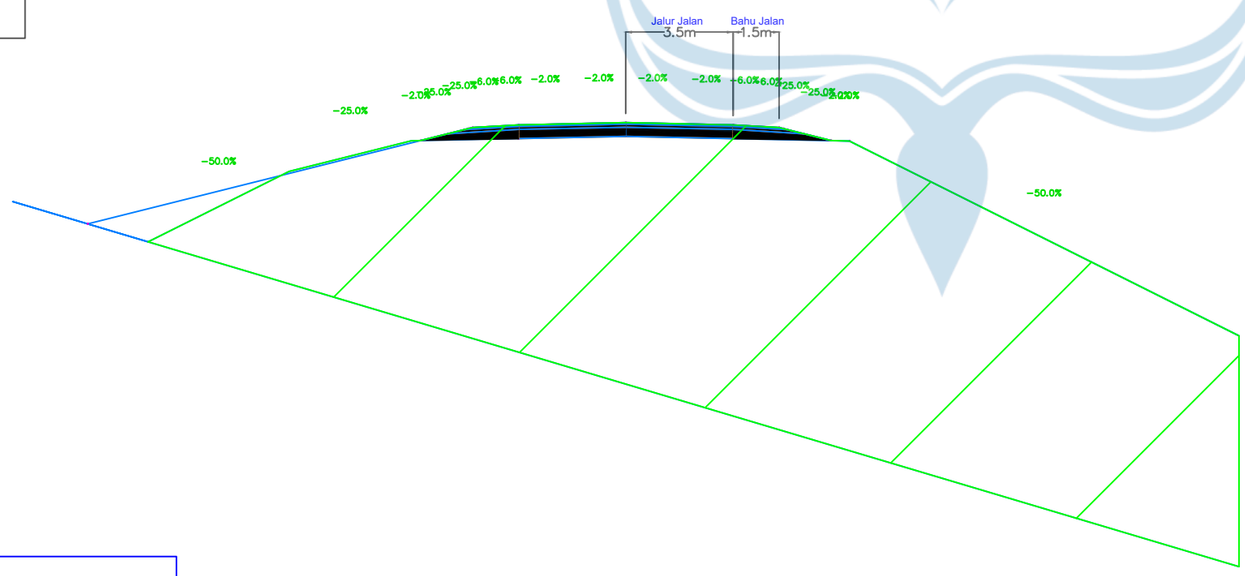
Total Volume at Station 1+600.00	
Cut Area	0.00
Fill Area	501.26
Cut Vol	0.00
Fill Vol	27400.47
Cum Cut Vol	140066.05
Cum Fill Vol	244257.08
Net Vol	-104191.03

Tanah Asli

Galian

Timbunan

STA : 1 + 650,00



Material(s) at Station 1+650.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	140066.05
Ground Fill	259.48	19018.54	263275.62

Total Volume at Station 1+650.00	
Cut Area	0.00
Fill Area	259.48
Cut Vol	0.00
Fill Vol	19018.54
Cum Cut Vol	140066.05
Cum Fill Vol	263275.62
Net Vol	-123209.57

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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Disetujui Oleh :

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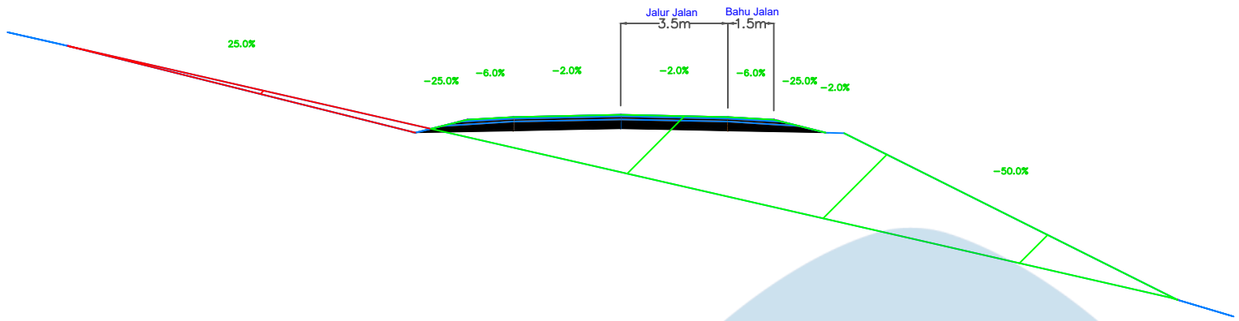
SKALA : 1:1000

STA : 1 + 700,00



Material(s) at Station 1+700.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	1.45	36.36	140102.41
Ground Fill	40.83	7507.69	270783.31

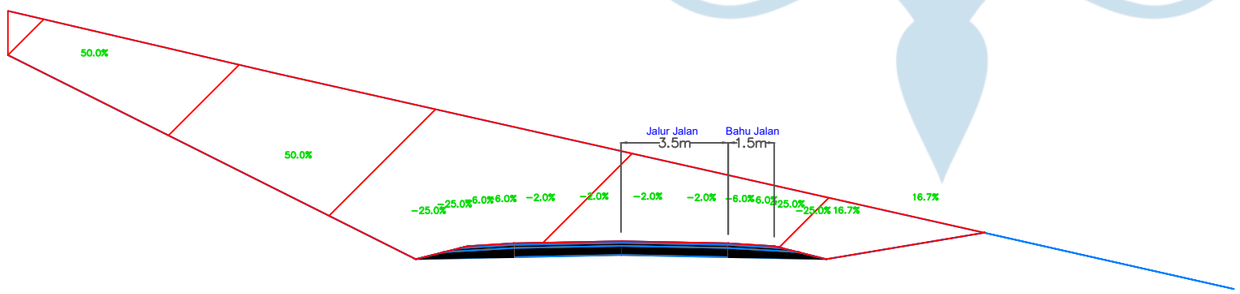
Total Volume at Station 1+700.00	
Cut Area	1.45
Fill Area	40.83
Cut Vol	36.36
Fill Vol	7507.69
Cum Cut Vol	140102.41
Cum Fill Vol	270783.31
Net Vol	-130680.90

Tanah Asli

Galian

Timbunan

STA : 1 + 750,00



Material(s) at Station 1+750.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	89.31	2269.03	142371.44
Ground Fill	0.00	1020.65	271803.96

Total Volume at Station 1+750.00	
Cut Area	89.31
Fill Area	0.00
Cut Vol	2269.03
Fill Vol	1020.65
Cum Cut Vol	142371.44
Cum Fill Vol	271803.96
Net Vol	-129432.52

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

Stanislaus Jivanta Danitza (190217591)
Adelia Sherlly Quinones (200218232)
Tsabita Qotrunnada (200218303)

Diperiksa Oleh :

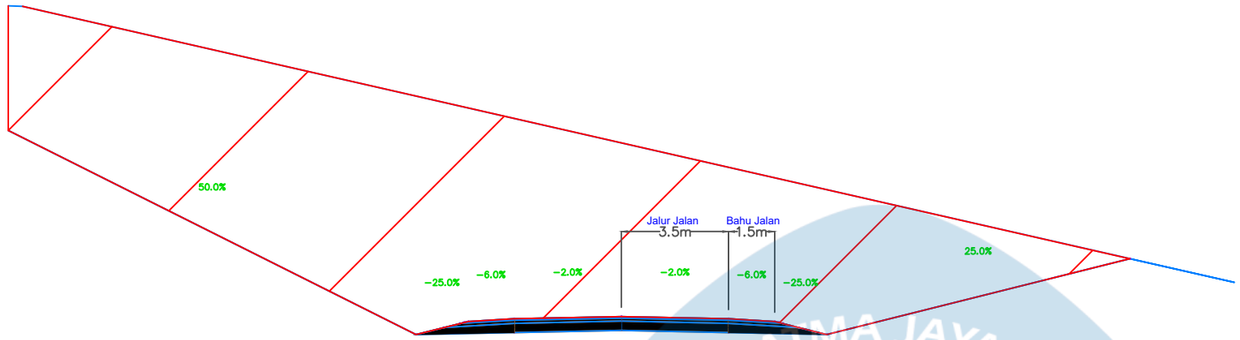
Alan Mikha Wijaya

Disetujui Oleh :

Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 1 + 800,00



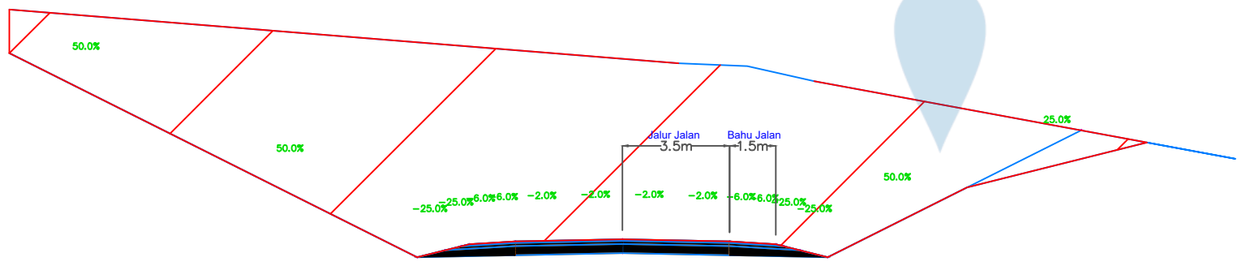
Tanah Asli	
Galian	
Timbunan	

Material(s) at Station 1+800.00

Material Name	Area	Volume	Cumulative Volume
Ground Removed	180.39	6742.49	149113.93
Ground Fill	0.00	0.00	271803.96

Total Volume at Station 1+800.00	
Cut Area	180.39
Fill Area	0.00
Cut Vol	6742.49
Fill Vol	0.00
Cum Cut Vol	149113.93
Cum Fill Vol	271803.96
Net Vol	-122690.03

STA : 1 + 850,00



Tanah Asli	
Galian	
Timbunan	

Material(s) at Station 1+850.00

Material Name	Area	Volume	Cumulative Volume
Ground Removed	162.74	8578.20	157692.14
Ground Fill	0.00	0.00	271803.96

Total Volume at Station 1+850.00	
Cut Area	162.74
Fill Area	0.00
Cut Vol	8578.20
Fill Vol	0.00
Cum Cut Vol	157692.14
Cum Fill Vol	271803.96
Net Vol	-114111.82

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

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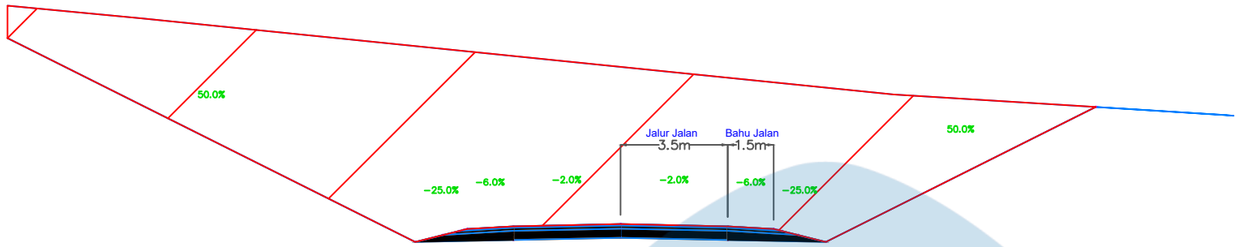
SKALA : 1:1000

STA : 1 + 900,00



Tanah Asli

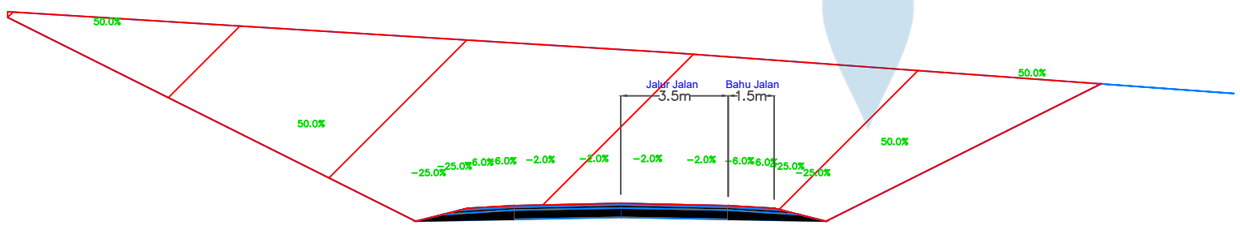
Galian

Timbunan

Material(s) at Station 1+900.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	142.08	7620.41	165312.55
Ground Fill	0.00	0.00	271803.96

Total Volume at Station 1+900.00	
Cut Area	142.08
Fill Area	0.00
Cut Vol	7620.41
Fill Vol	0.00
Cum Cut Vol	165312.55
Cum Fill Vol	271803.96
Net Vol	-106491.41

STA : 1 + 950,00



Tanah Asli

Galian

Timbunan

Material(s) at Station 1+950.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	133.19	6881.80	172194.35
Ground Fill	0.00	0.00	271803.96

Total Volume at Station 1+950.00	
Cut Area	133.19
Fill Area	0.00
Cut Vol	6881.80
Fill Vol	0.00
Cum Cut Vol	172194.35
Cum Fill Vol	271803.96
Net Vol	-99609.61

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

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Alan Mikha Wijaya

Disetujui Oleh :

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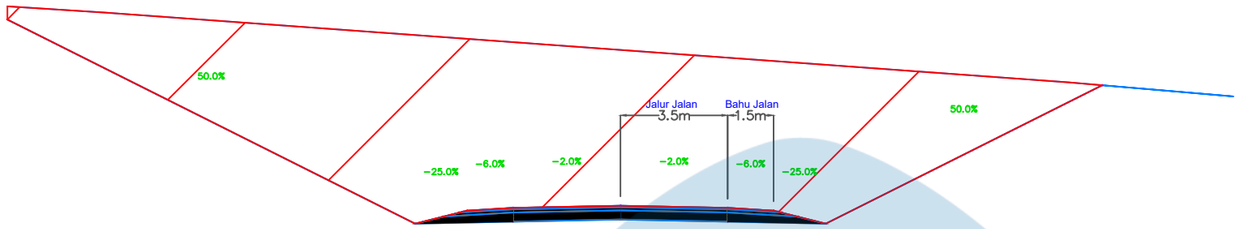
SKALA : 1:1000

STA : 2 + 000,00



Material(s) at Station 2+000.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	137.27	6761.49	178955.84
Ground Fill	0.00	0.00	271803.96

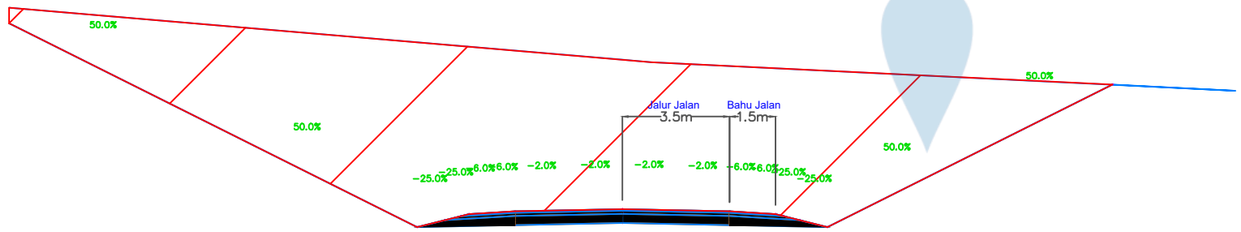
Total Volume at Station 2+000.00	
Cut Area	137.27
Fill Area	0.00
Cut Vol	6761.49
Fill Vol	0.00
Cum Cut Vol	178955.84
Cum Fill Vol	271803.96
Net Vol	−92848.13

Tanah Asli

Galian

Timbunan

STA : 2 + 050,00



Material(s) at Station 2+050.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	134.92	6804.69	185760.52
Ground Fill	0.00	0.00	271803.96

Total Volume at Station 2+050.00	
Cut Area	134.92
Fill Area	0.00
Cut Vol	6804.69
Fill Vol	0.00
Cum Cut Vol	185760.52
Cum Fill Vol	271803.96
Net Vol	−86043.44

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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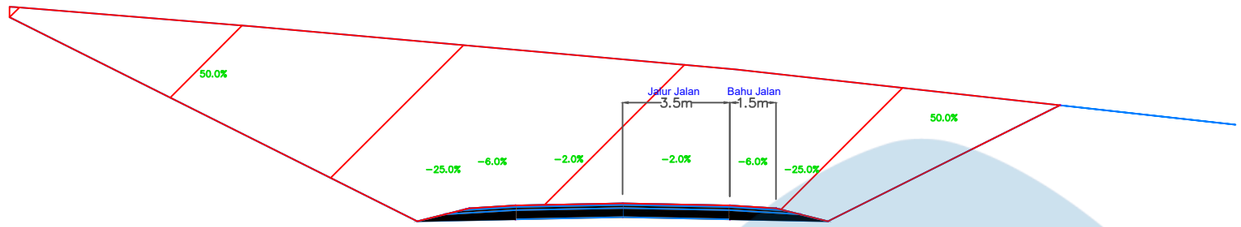
SKALA : 1:1000

STA : 2 + 100,00



Material(s) at Station 2+100.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	123.79	6467.76	192228.29
Ground Fill	0.00	0.00	271803.96

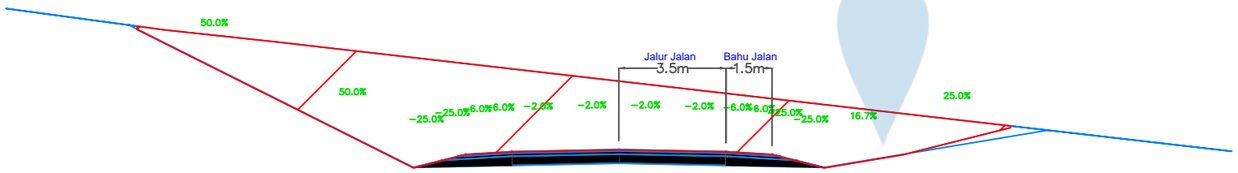
Total Volume at Station 2+100.00	
Cut Area	123.79
Fill Area	0.00
Cut Vol	6467.76
Fill Vol	0.00
Cum Cut Vol	192228.29
Cum Fill Vol	271803.96
Net Vol	-79575.67

Tanah Asli

Galian

Timbunan

STA : 2 + 150,00



Material(s) at Station 2+150.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	55.38	4479.38	196707.67
Ground Fill	0.00	0.00	271803.96

Total Volume at Station 2+150.00	
Cut Area	55.38
Fill Area	0.00
Cut Vol	4479.38
Fill Vol	0.00
Cum Cut Vol	196707.67
Cum Fill Vol	271803.96
Net Vol	-75096.29

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

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Alan Mikha Wijaya

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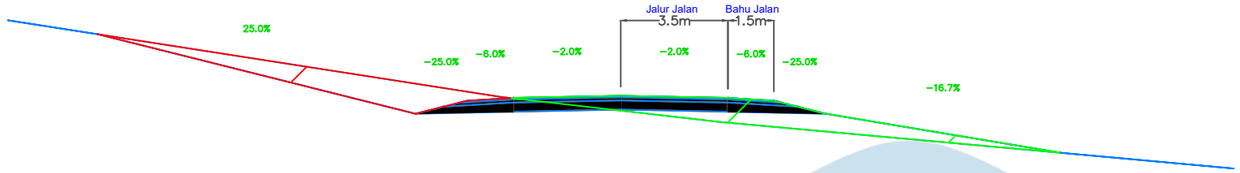
Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 2 + 200,00



Material(s) at Station 2+200.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	6.36	1543.68	198251.35
Ground Fill	7.80	195.10	271999.06

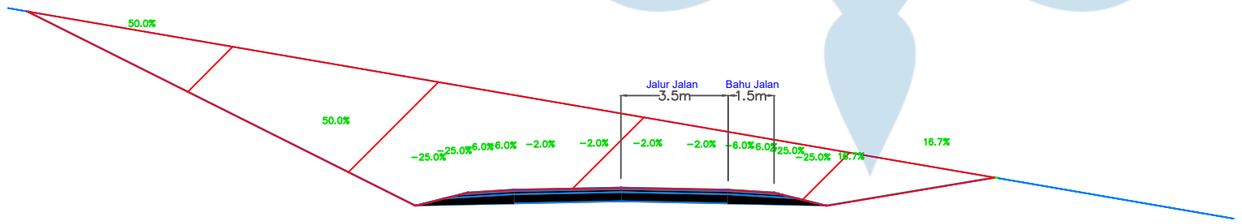
Total Volume at Station 2+200.00	
Cut Area	6.36
Fill Area	7.80
Cut Vol	1543.68
Fill Vol	195.10
Cum Cut Vol	198251.35
Cum Fill Vol	271999.06
Net Vol	-73747.71

Tanah Asli

Galian

Timbunan

STA : 2 + 250,00



Material(s) at Station 2+250.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	65.92	1807.17	200058.51
Ground Fill	0.00	195.12	272194.18

Total Volume at Station 2+250.00	
Cut Area	65.92
Fill Area	0.00
Cut Vol	1807.17
Fill Vol	195.12
Cum Cut Vol	200058.51
Cum Fill Vol	272194.18
Net Vol	-72135.66

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

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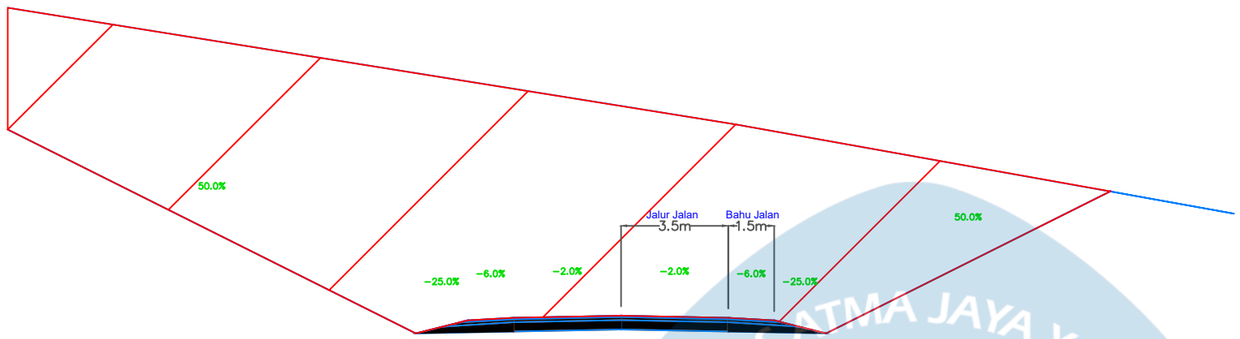
Alan Mikha Wijaya

Disetujui Oleh :

Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 2 + 300,00



Material(s) at Station 2+300.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	205.40	6783.20	206841.72
Ground Fill	0.00	0.02	272194.19

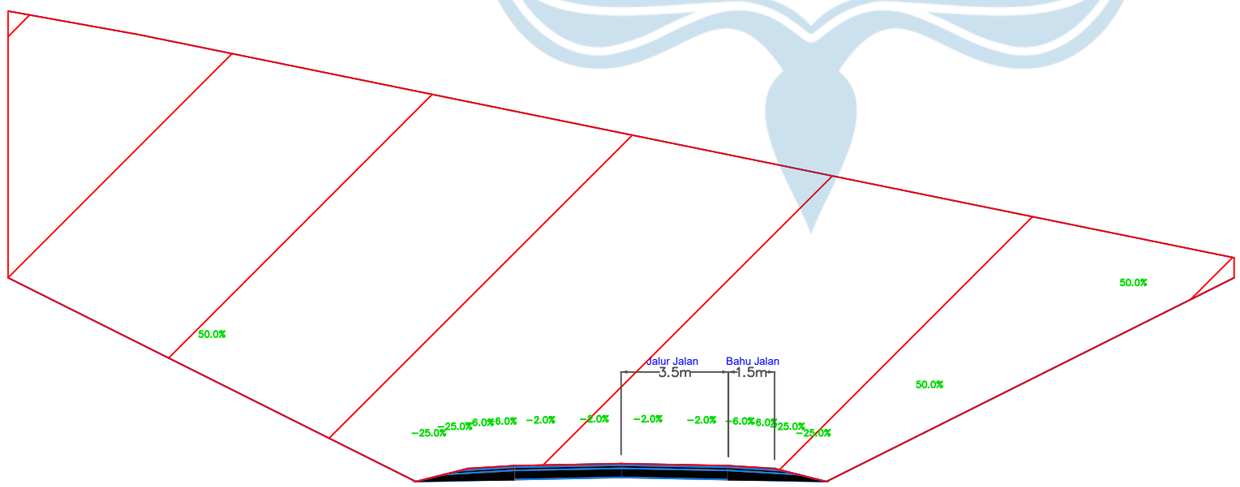
Total Volume at Station 2+300.00	
Cut Area	205.40
Fill Area	0.00
Cut Vol	6783.20
Fill Vol	0.02
Cum Cut Vol	206841.72
Cum Fill Vol	272194.19
Net Vol	-65352.48

Tanah Asli

Galian

Timbunan

STA : 2 + 350,00



Material(s) at Station 2+350.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	360.29	14142.29	220984.01
Ground Fill	0.00	0.00	272194.19

Total Volume at Station 2+350.00	
Cut Area	360.29
Fill Area	0.00
Cut Vol	14142.29
Fill Vol	0.00
Cum Cut Vol	220984.01
Cum Fill Vol	272194.19
Net Vol	-51210.18

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

Stanislaus Jivanta Danitza (190217591)
Adelia Sherlly Quinones (200218232)
Tsabita Qotrunnada (200218303)

Diperiksa Oleh :

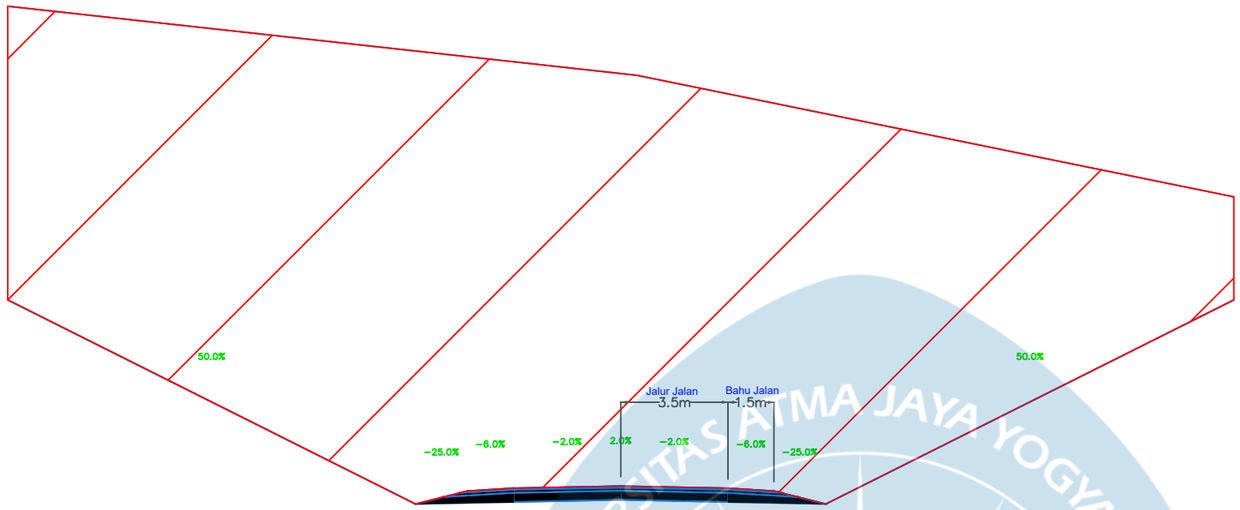
Alan Mikha Wijaya

Disetujui Oleh :

Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 1 + 400,00



Material(s) at Station 2+400.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	449.14	20235.69	241219.69
Ground Fill	0.00	0.00	272194.19

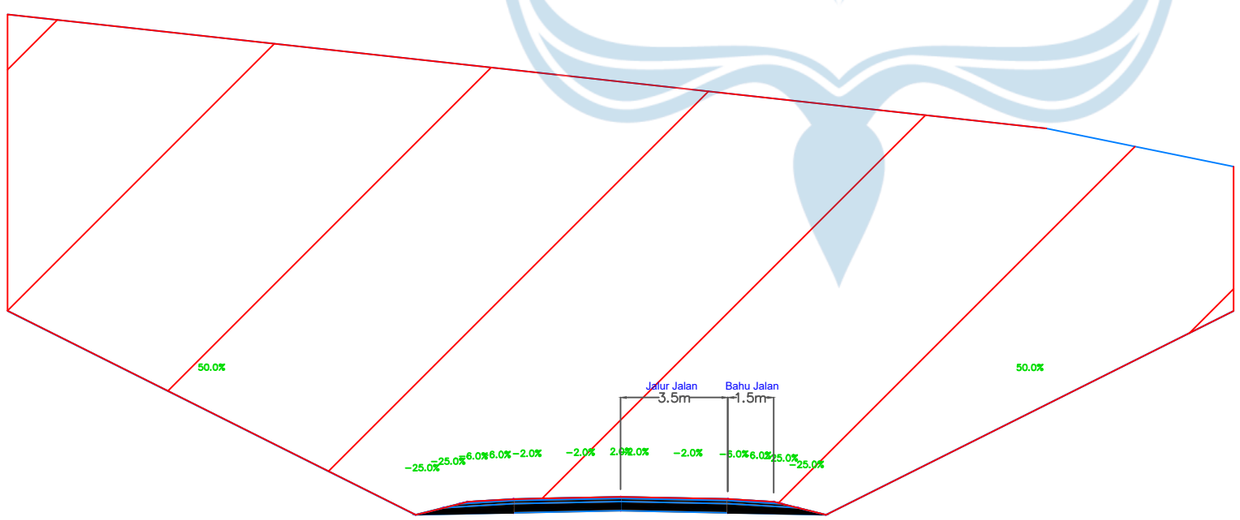
Total Volume at Station 2+400.00	
Cut Area	449.14
Fill Area	0.00
Cut Vol	20235.69
Fill Vol	0.00
Cum Cut Vol	241219.69
Cum Fill Vol	272194.19
Net Vol	-30974.50

Tanah Asli

Galian

Timbunan

STA : 2 + 425,00



Material(s) at Station 2+425.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	468.79	11474.10	252693.80
Ground Fill	0.00	0.00	272194.19

Total Volume at Station 2+425.00	
Cut Area	468.79
Fill Area	0.00
Cut Vol	11474.10
Fill Vol	0.00
Cum Cut Vol	252693.80
Cum Fill Vol	272194.19
Net Vol	-19500.39

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

Stanislaus Jivanta Danitza (190217591)
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Diperiksa Oleh :

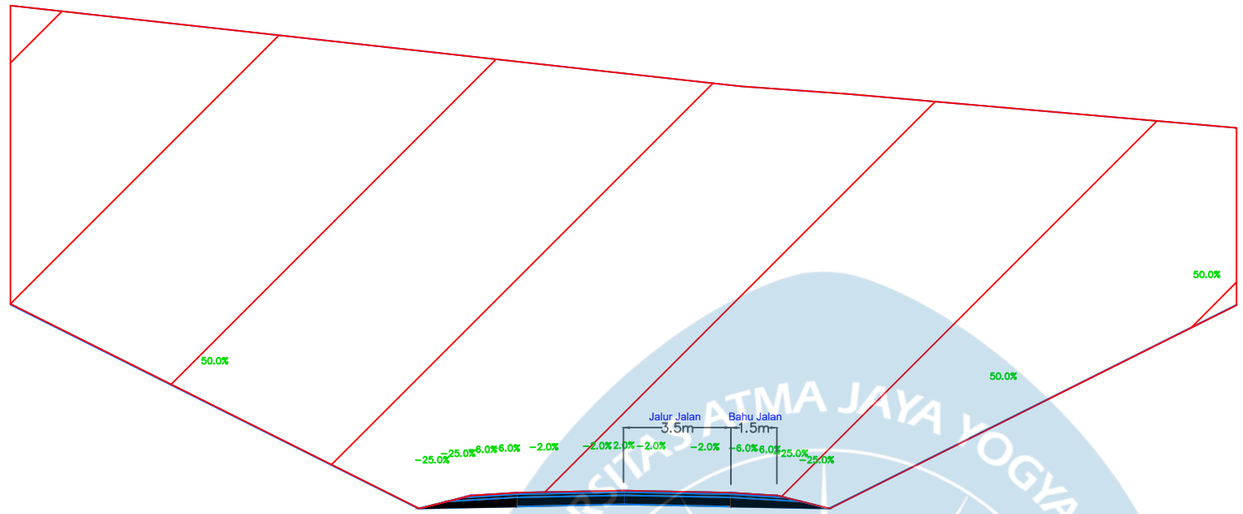
Alan Mikha Wijaya

Disetujui Oleh :

Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 2 + 450,00



Material(s) at Station 2+450.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	477.03	11822.77	264516.57
Ground Fill	0.00	0.00	272194.19

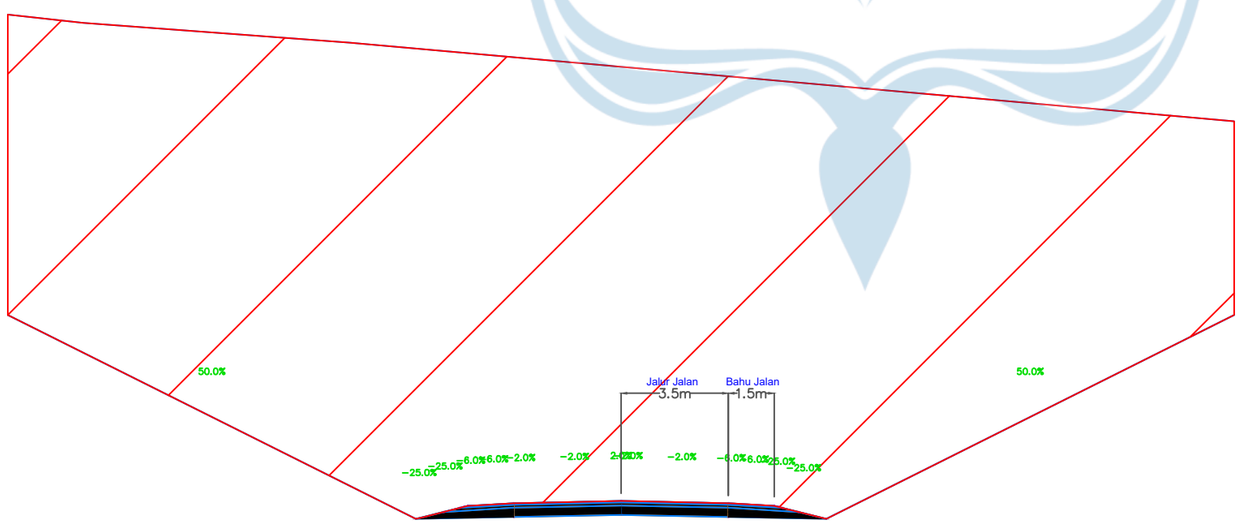
Total Volume at Station 2+450.00	
Cut Area	477.03
Fill Area	0.00
Cut Vol	11822.77
Fill Vol	0.00
Cum Cut Vol	264516.57
Cum Fill Vol	272194.19
Net Vol	-7677.62

Tanah Asli

Galian

Timbunan

STA : 2 + 475,00



Material(s) at Station 2+475.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	494.51	12153.60	276670.17
Ground Fill	0.00	0.00	272194.19

Total Volume at Station 2+475.00	
Cut Area	494.51
Fill Area	0.00
Cut Vol	12153.60
Fill Vol	0.00
Cum Cut Vol	276670.17
Cum Fill Vol	272194.19
Net Vol	4475.97

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

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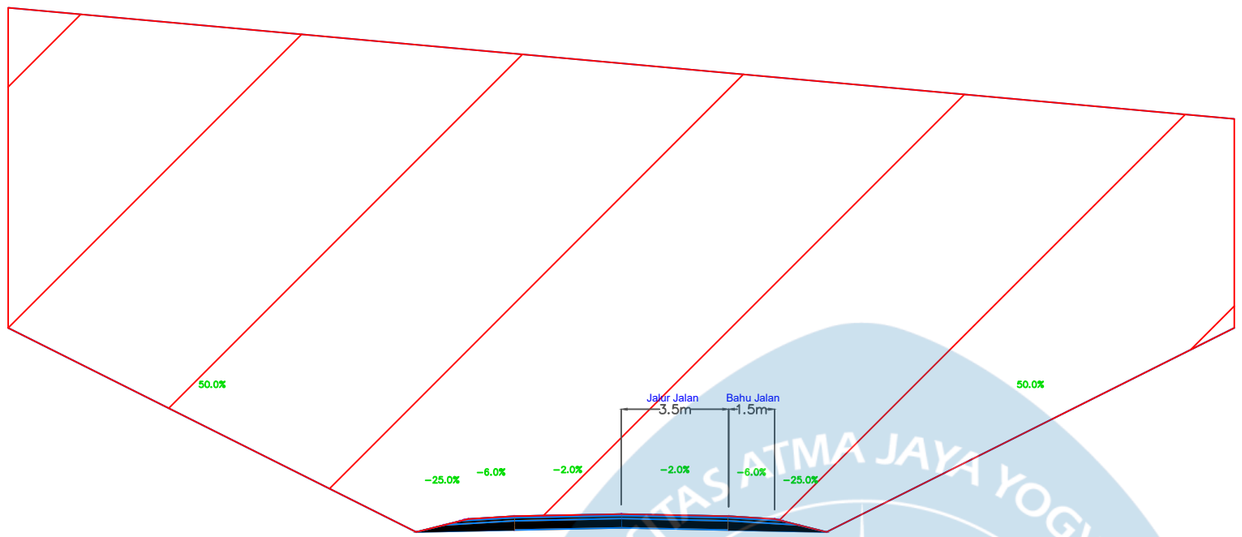
Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 2 + 500,00



Material(s) at Station 2+500.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	516.84	12654.21	289324.37
Ground Fill	0.00	0.00	272194.19

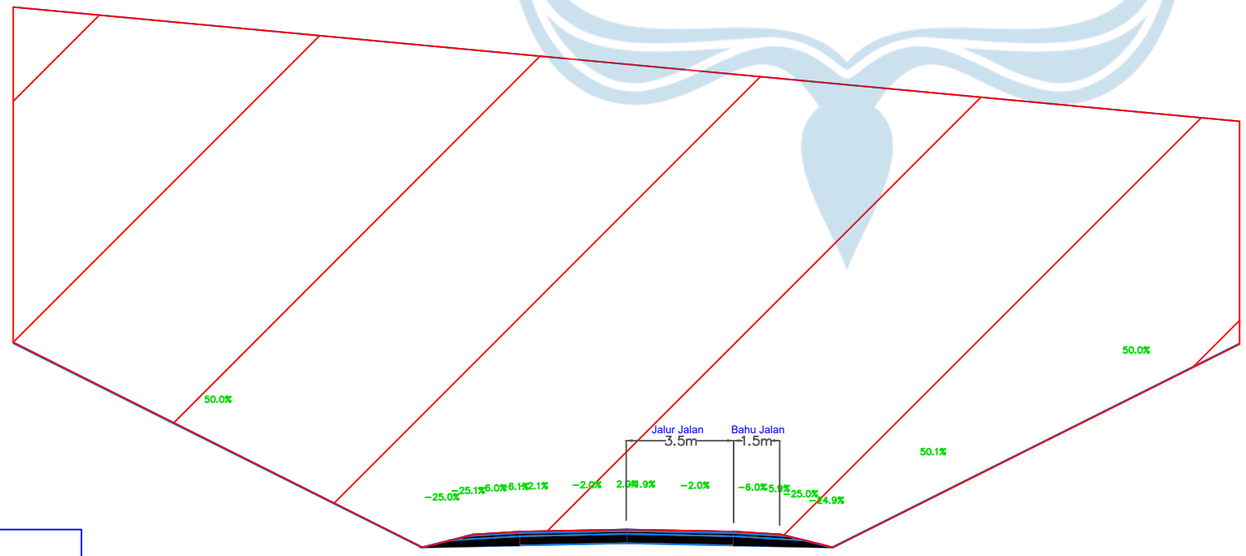
Total Volume at Station 2+500.00	
Cut Area	516.84
Fill Area	0.00
Cut Vol	12654.21
Fill Vol	0.00
Cum Cut Vol	289324.37
Cum Fill Vol	272194.19
Net Vol	17130.18

Tanah Asli

Galian

Timbunan

STA : 2 + 525,00



Material(s) at Station 2+525.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	535.55	13171.15	302495.53
Ground Fill	0.00	0.00	272194.19

Total Volume at Station 2+525.00	
Cut Area	535.55
Fill Area	0.00
Cut Vol	13171.15
Fill Vol	0.00
Cum Cut Vol	302495.53
Cum Fill Vol	272194.19
Net Vol	30301.34

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

Stanislaus Jivanta Danitza (190217591)
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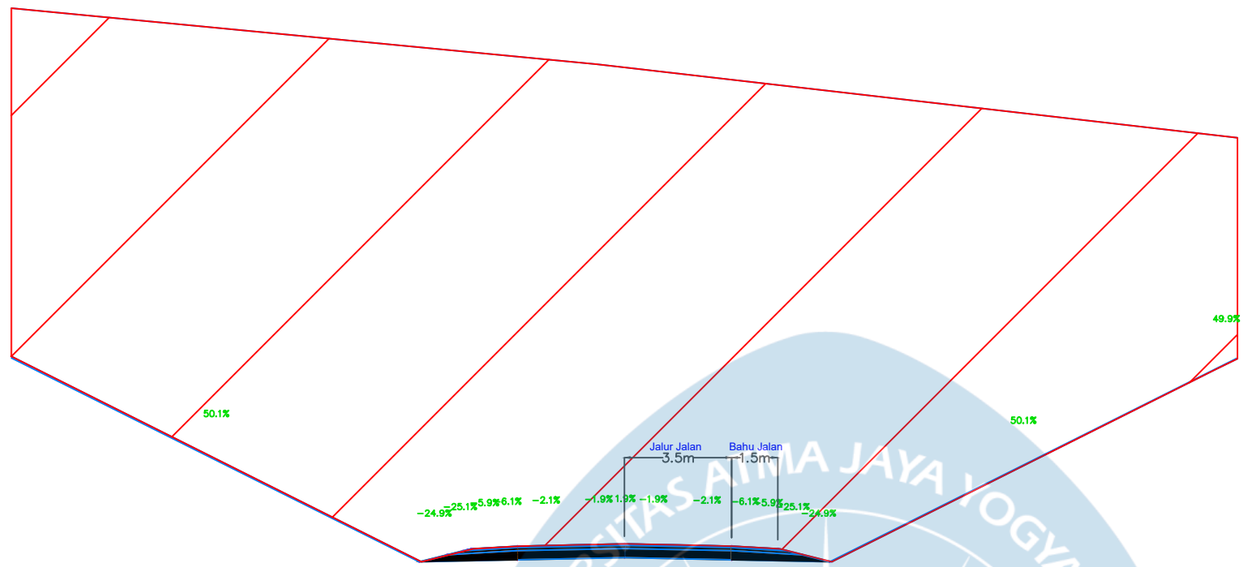
Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 2 + 550,00



Material(s) at Station 2+550.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	546.94	13549.71	316045.23
Ground Fill	0.00	0.00	272194.19

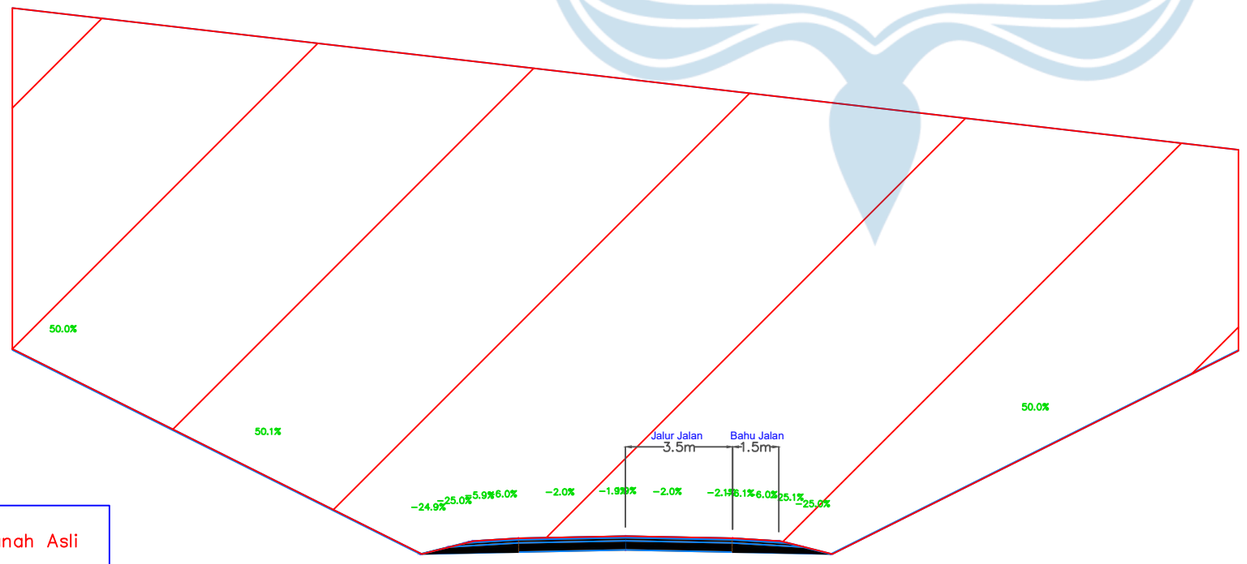
Total Volume at Station 2+550.00	
Cut Area	546.94
Fill Area	0.00
Cut Vol	13549.71
Fill Vol	0.00
Cum Cut Vol	316045.23
Cum Fill Vol	272194.19
Net Vol	43851.04

Tanah Asli

Galian

Timbunan

STA : 2 + 575,00



Material(s) at Station 2+575.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	525.12	13421.40	329466.64
Ground Fill	0.00	0.00	272194.19

Total Volume at Station 2+575.00	
Cut Area	525.12
Fill Area	0.00
Cut Vol	13421.40
Fill Vol	0.00
Cum Cut Vol	329466.64
Cum Fill Vol	272194.19
Net Vol	57272.44

Tanah Asli

Galian

Timbunan

UNIVERSITAS ATMA JAYA YOGYAKARTA

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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Diperiksa Oleh :

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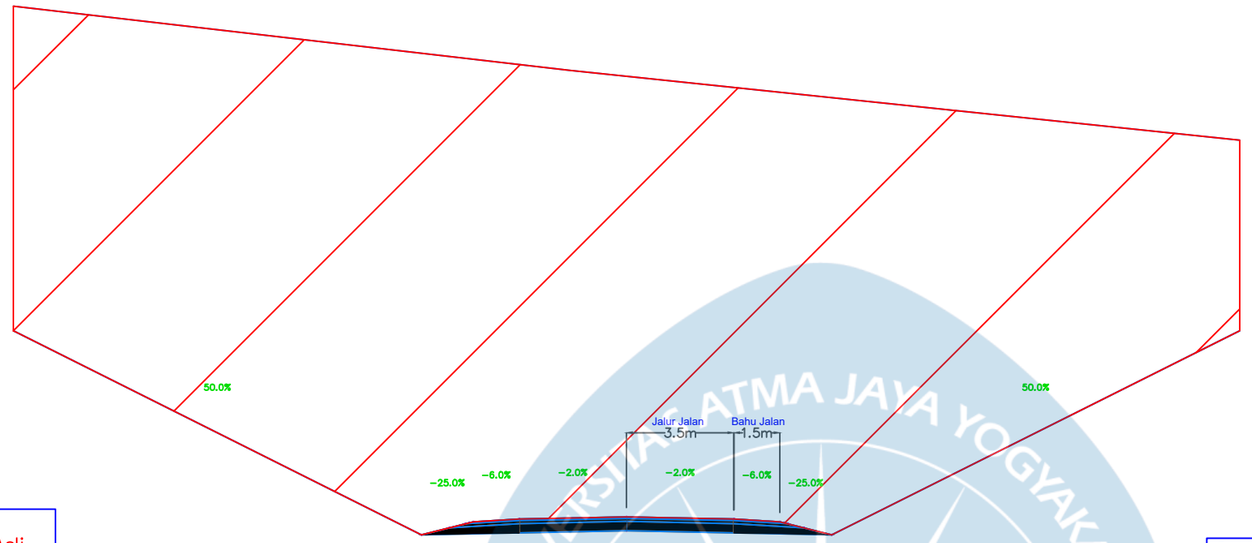
SKALA : 1:1000

STA : 2 + 600,00



Material(s) at Station 2+600.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	505.35	12902.06	342368.70
Ground Fill	0.00	0.00	272194.19

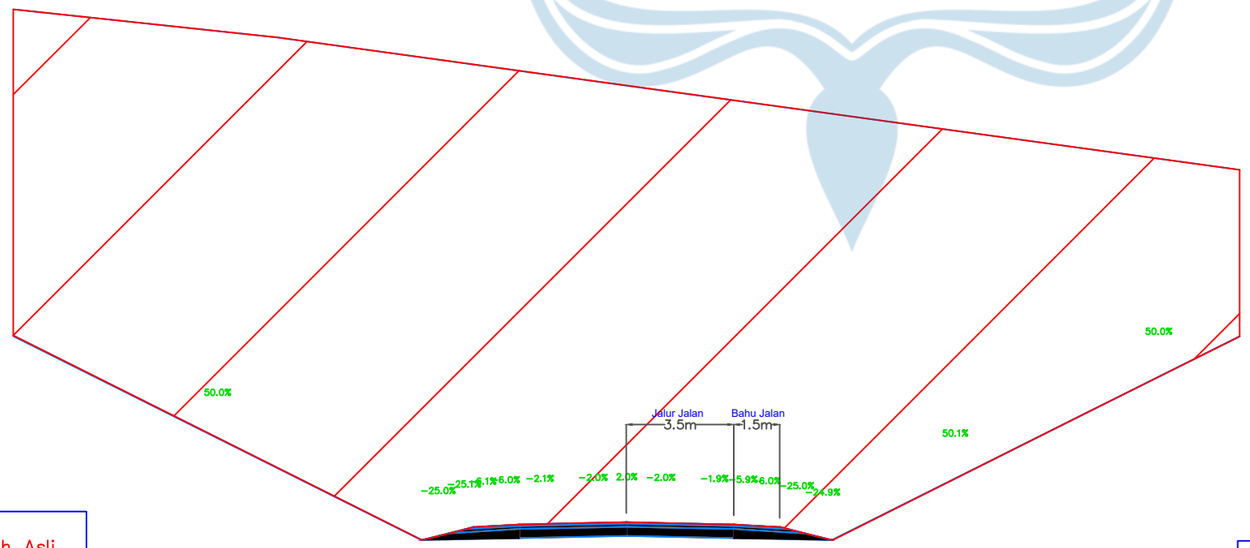
Total Volume at Station 2+600.00	
Cut Area	505.35
Fill Area	0.00
Cut Vol	12902.06
Fill Vol	0.00
Cum Cut Vol	342368.70
Cum Fill Vol	272194.19
Net Vol	70174.51

Tanah Asli

Galian

Timbunan

STA : 2 + 625,00



Material(s) at Station 2+625.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	497.28	12555.89	354924.59
Ground Fill	0.00	0.00	272194.19

Total Volume at Station 2+625.00	
Cut Area	497.28
Fill Area	0.00
Cut Vol	12555.89
Fill Vol	0.00
Cum Cut Vol	354924.59
Cum Fill Vol	272194.19
Net Vol	82730.40

Tanah Asli

Galian

Timbunan

UNIVERSITAS ATMA JAYA YOGYAKARTA

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

Stanislaus Jivanta Danitza (190217591)
Adelia Sherlly Quinones (200218232)
Tsabita Qotrunnada (200218303)

Diperiksa Oleh :

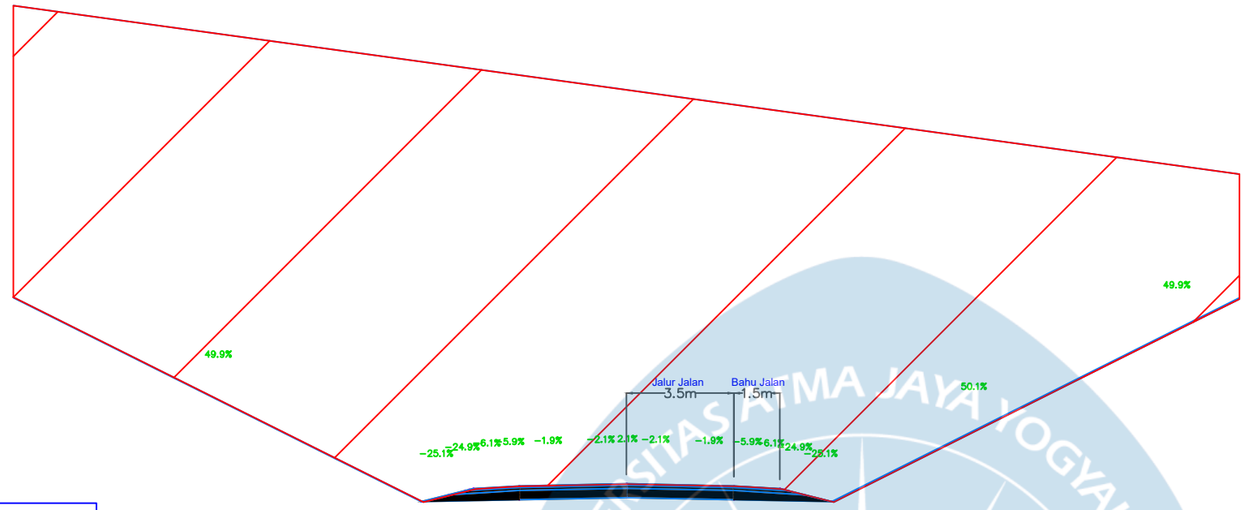
Alan Mikha Wijaya

Disetujui Oleh :

Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 2 + 650,00



Material(s) at Station 2+650.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	443.27	11782.40	366706.99
Ground Fill	0.00	0.00	272194.19

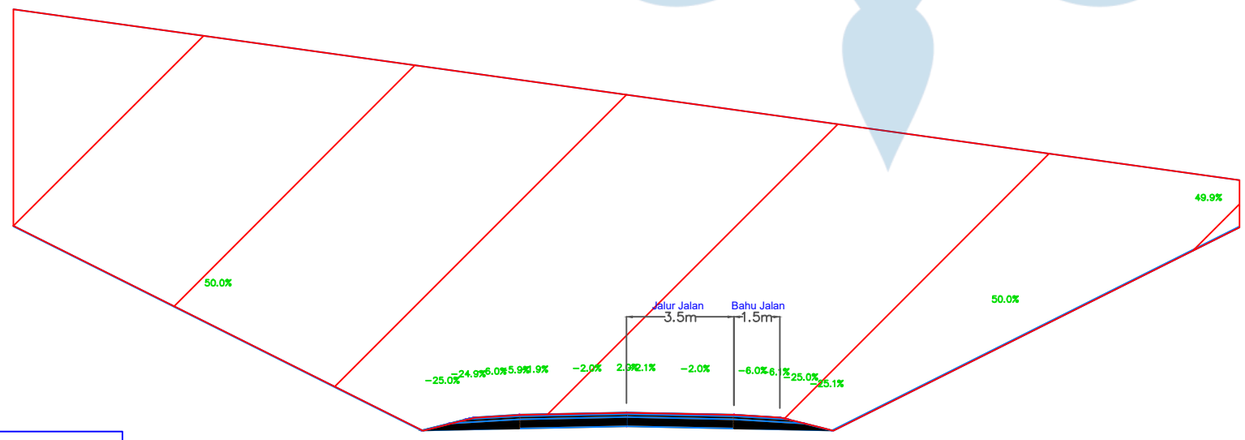
Total Volume at Station 2+650.00	
Cut Area	443.27
Fill Area	0.00
Cut Vol	11782.40
Fill Vol	0.00
Cum Cut Vol	366706.99
Cum Fill Vol	272194.19
Net Vol	94512.80

Tanah Asli

Galian

Timbunan

STA : 2 + 675,00



Material(s) at Station 2+675.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	343.83	9864.71	376571.69
Ground Fill	0.00	0.00	272194.19

Total Volume at Station 2+675.00	
Cut Area	343.83
Fill Area	0.00
Cut Vol	9864.71
Fill Vol	0.00
Cum Cut Vol	376571.69
Cum Fill Vol	272194.19
Net Vol	104377.50

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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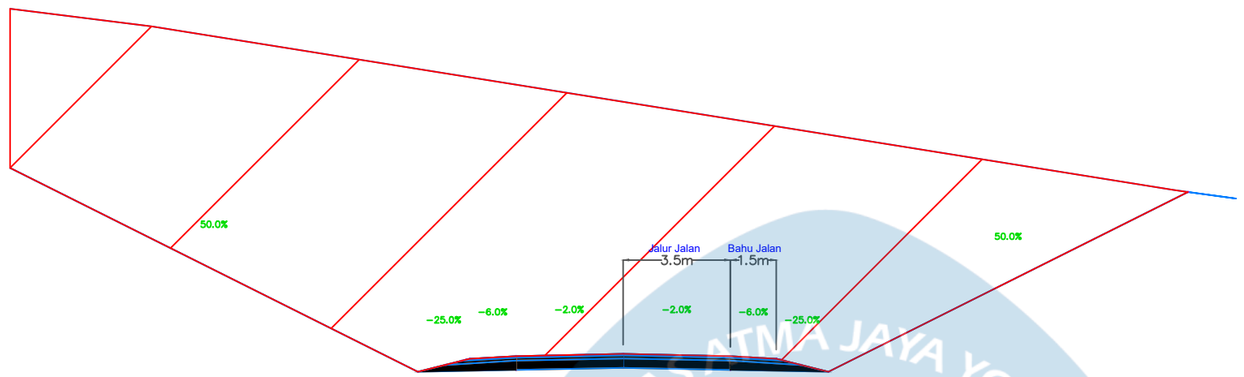
SKALA : 1:1000

STA : 2 + 700,00



Material(s) at Station 2+700.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	258.20	7552.84	384124.54
Ground Fill	0.00	0.00	272194.19

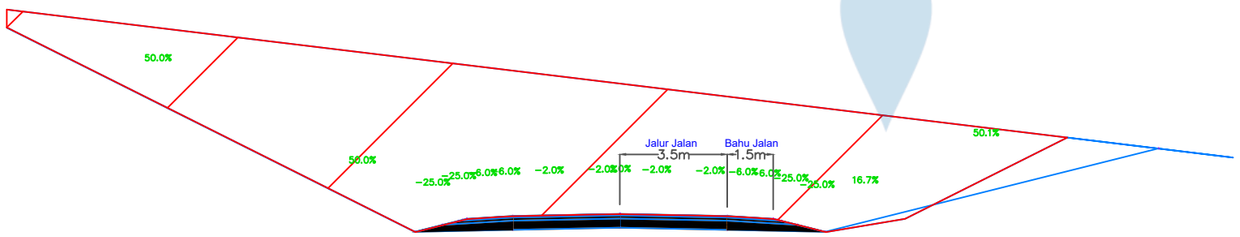
Total Volume at Station 2+700.00	
Cut Area	258.20
Fill Area	0.00
Cut Vol	7552.84
Fill Vol	0.00
Cum Cut Vol	384124.54
Cum Fill Vol	272194.19
Net Vol	111930.34

Tanah Asli

Galian

Timbunan

STA : 2 + 725,00



Material(s) at Station 2+725.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	118.60	4726.84	388851.37
Ground Fill	0.00	0.00	272194.19

Total Volume at Station 2+725.00	
Cut Area	118.60
Fill Area	0.00
Cut Vol	4726.84
Fill Vol	0.00
Cum Cut Vol	388851.37
Cum Fill Vol	272194.19
Net Vol	116657.18

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
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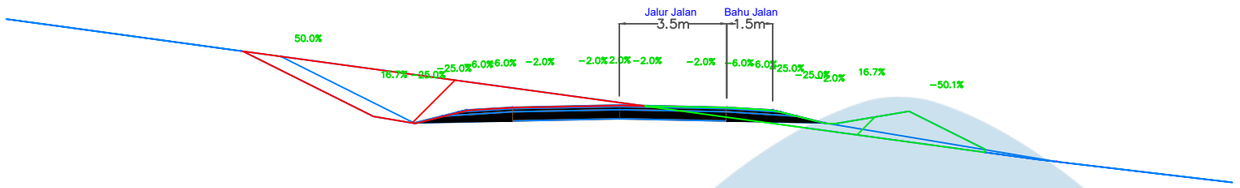
SKALA : 1:1000

STA : 2 + 750,00



Material(s) at Station 2+750.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	10.06	1612.57	390463.94
Ground Fill	4.51	56.05	272250.24

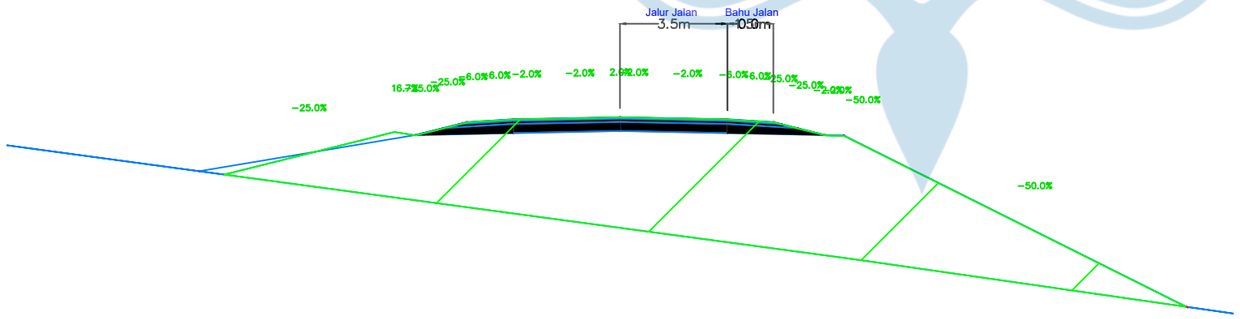
Total Volume at Station 2+750.00	
Cut Area	10.06
Fill Area	4.51
Cut Vol	1612.57
Fill Vol	56.05
Cum Cut Vol	390463.94
Cum Fill Vol	272250.24
Net Vol	118213.70

Tanah Asli

Galian

Timbunan

STA : 2 + 775,00



Material(s) at Station 2+775.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	125.81	390589.75
Ground Fill	78.25	1034.52	273284.76

Total Volume at Station 2+775.00	
Cut Area	0.00
Fill Area	78.25
Cut Vol	125.81
Fill Vol	1034.52
Cum Cut Vol	390589.75
Cum Fill Vol	273284.76
Net Vol	117304.99

Tanah Asli

Galian

Timbunan

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SEMESTER GENAP
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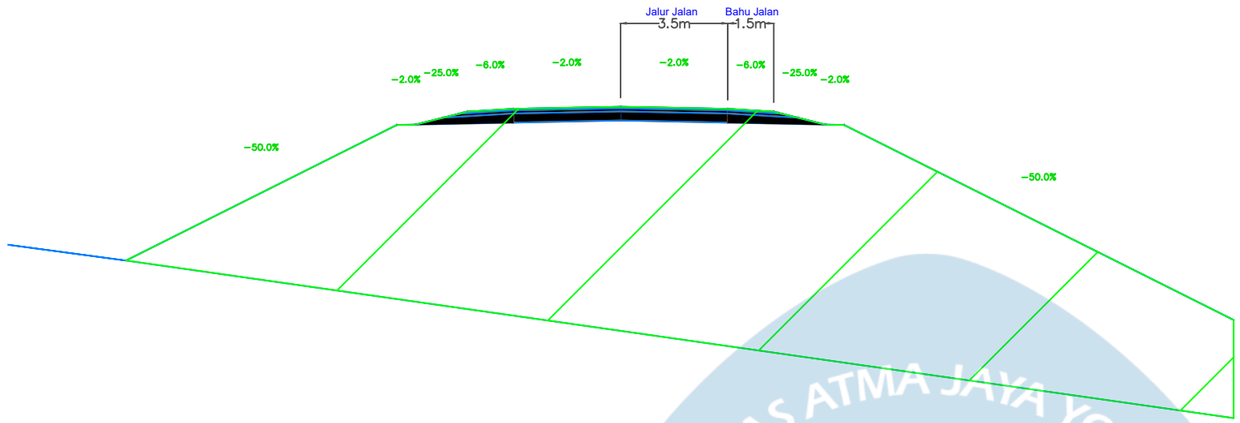
SKALA : 1:1000

STA : 2 + 800,00



Material(s) at Station 2+800.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.01	390589.76
Ground Fill	198.70	3461.89	276746.65

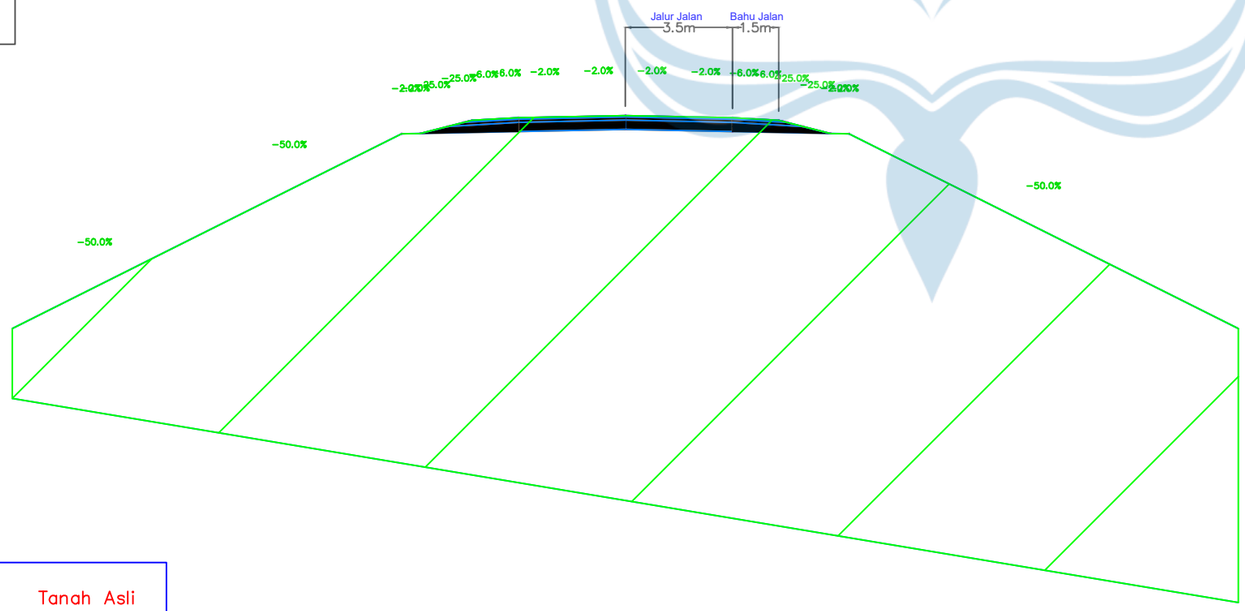
Total Volume at Station 2+800.00	
Cut Area	0.00
Fill Area	198.70
Cut Vol	0.01
Fill Vol	3461.89
Cum Cut Vol	390589.76
Cum Fill Vol	276746.65
Net Vol	113843.11

Tanah Asli

Galian

Timbunan

STA : 0 + 050,00



Material(s) at Station 2+850.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	390589.76
Ground Fill	403.69	15059.84	291806.50

Total Volume at Station 2+850.00	
Cut Area	0.00
Fill Area	403.69
Cut Vol	0.00
Fill Vol	15059.84
Cum Cut Vol	390589.76
Cum Fill Vol	291806.50
Net Vol	98783.26

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
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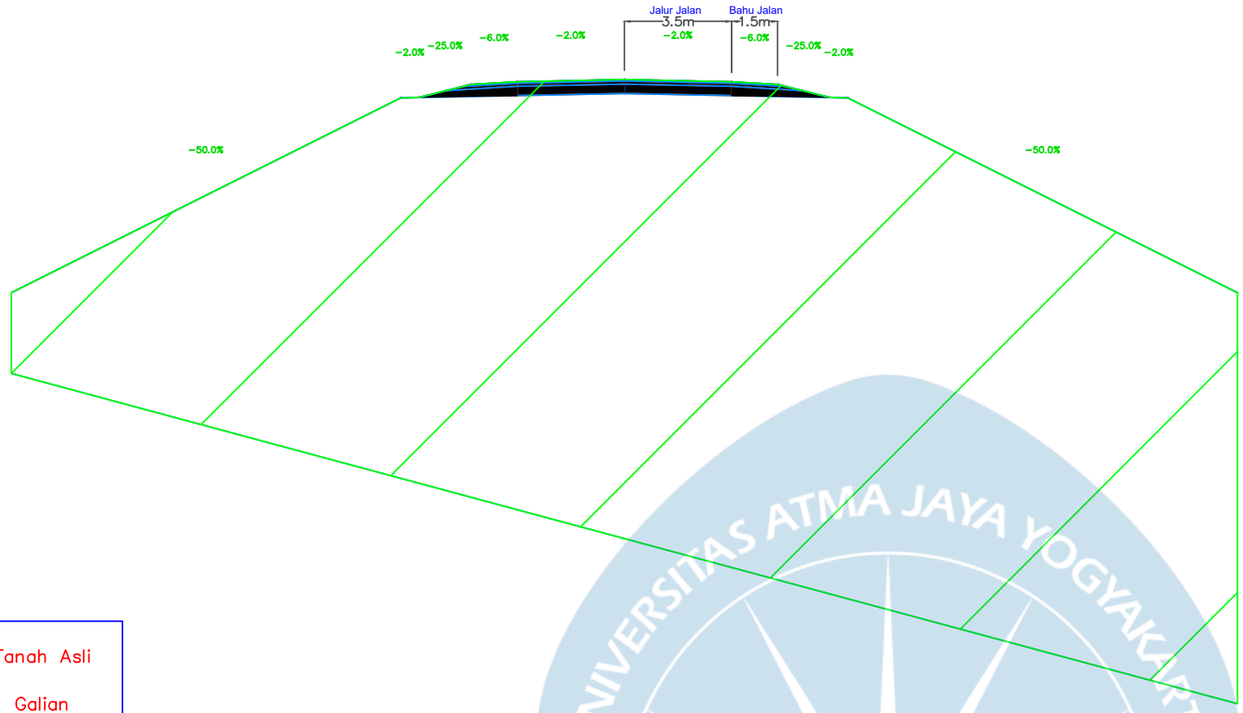
SKALA : 1:1000

STA : 2 + 900,00



Material(s) at Station 2+900.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	390589.76
Ground Fill	500.40	22602.19	314408.68

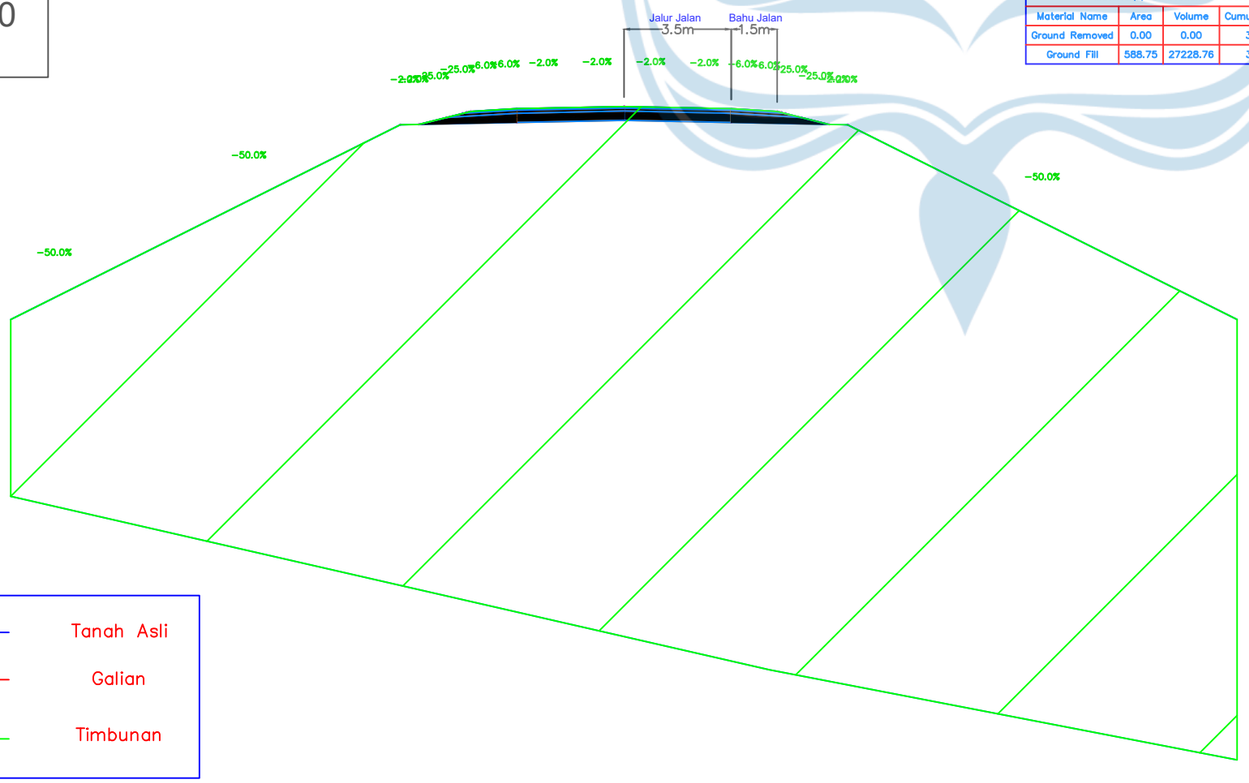
Total Volume at Station 2+900.00	
Cut Area	0.00
Fill Area	500.40
Cut Vol	0.00
Fill Vol	22602.19
Cum Cut Vol	390589.76
Cum Fill Vol	314408.68
Net Vol	76181.08

Tanah Asli

Galian

Timbunan

STA : 2 + 950,00



Material(s) at Station 2+950.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	390589.76
Ground Fill	588.75	27228.76	341637.44

Total Volume at Station 2+950.00	
Cut Area	0.00
Fill Area	588.75
Cut Vol	0.00
Fill Vol	27228.76
Cum Cut Vol	390589.76
Cum Fill Vol	341637.44
Net Vol	48952.32

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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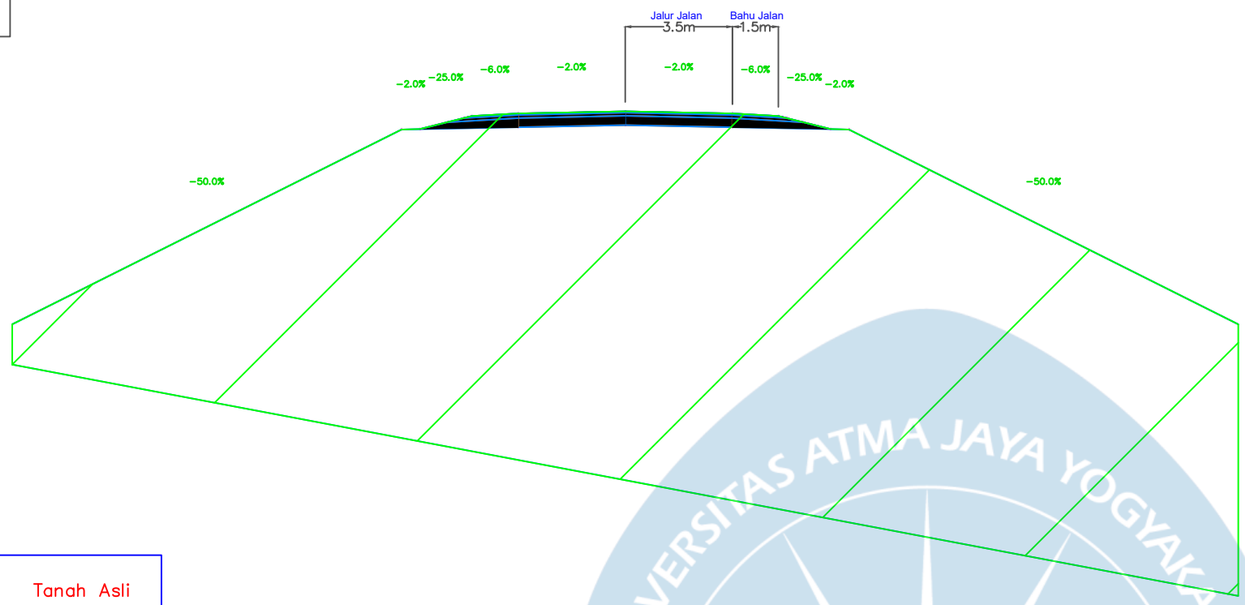
SKALA : 1:1000

STA : 3 + 000,00



Material(s) at Station 3+000.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	390589.76
Ground Fill	382.87	24290.71	365928.14

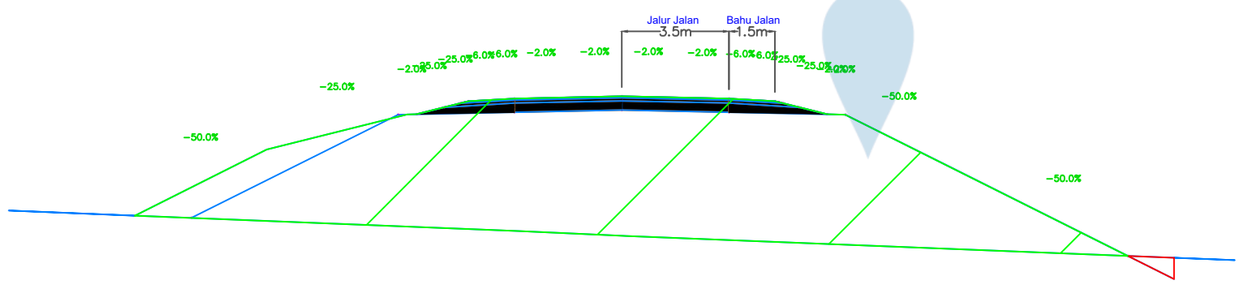
Total Volume at Station 3+000.00	
Cut Area	0.00
Fill Area	382.87
Cut Vol	0.00
Fill Vol	24290.71
Cum Cut Vol	390589.76
Cum Fill Vol	365928.14
Net Vol	24661.62

Tanah Asli

Galian

Timbunan

STA : 3 + 050,00



Material(s) at Station 3+050.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.52	13.11	390602.87
Ground Fill	100.82	12092.45	378020.59

Total Volume at Station 3+050.00	
Cut Area	0.52
Fill Area	100.82
Cut Vol	13.11
Fill Vol	12092.45
Cum Cut Vol	390602.87
Cum Fill Vol	378020.59
Net Vol	12582.28

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

Stanislaus Jivanta Danitza (190217591)
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Diperiksa Oleh :

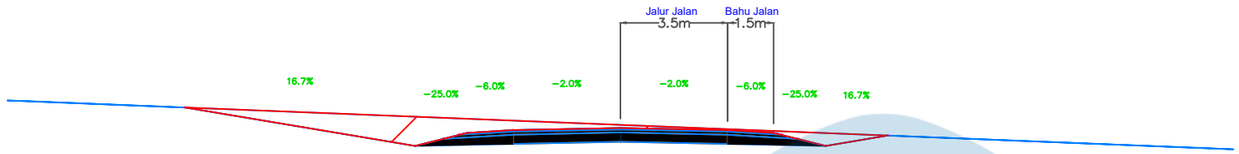
Alan Mikha Wijaya

Disetujui Oleh :

Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 3 + 100,00



Material(s) at Station 3+100.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	7.18	192.57	390795.44
Ground Fill	0.00	2520.58	380541.17

Total Volume at Station 3+100.00	
Cut Area	7.18
Fill Area	0.00
Cut Vol	192.57
Fill Vol	2520.58
Cum Cut Vol	390795.44
Cum Fill Vol	380541.17
Net Vol	10254.27

Tanah Asli

Galian

Timbunan

STA : 3 + 150,00

Material(s) at Station 3+150.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	80.34	2187.94	392983.38
Ground Fill	0.00	0.00	380541.17

Total Volume at Station 3+150.00	
Cut Area	80.34
Fill Area	0.00
Cut Vol	2187.94
Fill Vol	0.00
Cum Cut Vol	392983.38
Cum Fill Vol	380541.17
Net Vol	12442.21

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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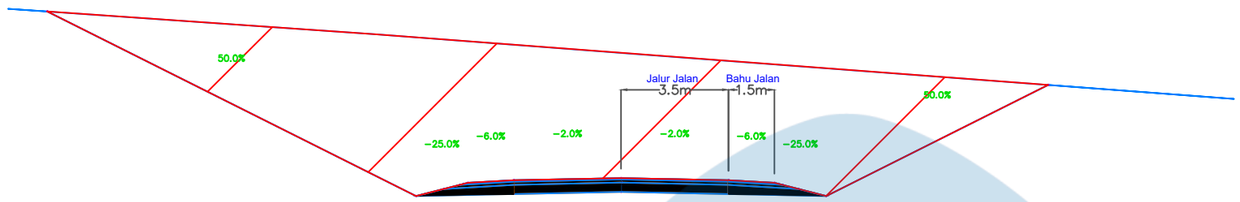
Alan Mikha Wijaya

Disetujui Oleh :

Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 3 + 200,00



Tanah Asli

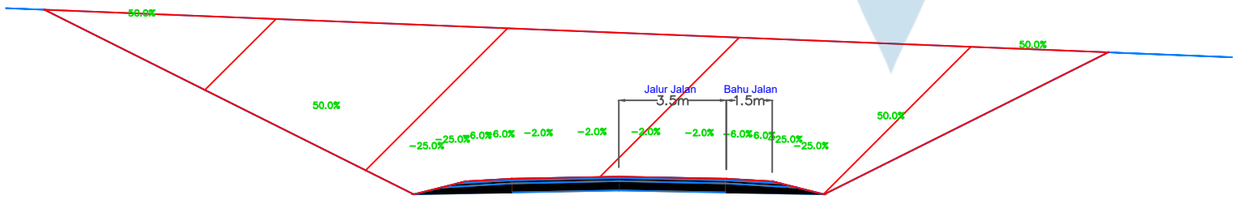
Galian

Timbunan

Material(s) at Station 3+200.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	102.70	4575.88	397559.26
Ground Fill	0.00	0.00	380541.17

Total Volume at Station 3+200.00	
Cut Area	102.70
Fill Area	0.00
Cut Vol	4575.88
Fill Vol	0.00
Cum Cut Vol	397559.26
Cum Fill Vol	380541.17
Net Vol	17018.09

STA : 3 + 250,00



Tanah Asli

Galian

Timbunan

Material(s) at Station 3+250.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	121.22	5597.90	403157.16
Ground Fill	0.00	0.00	380541.17

Total Volume at Station 3+250.00	
Cut Area	121.22
Fill Area	0.00
Cut Vol	5597.90
Fill Vol	0.00
Cum Cut Vol	403157.16
Cum Fill Vol	380541.17
Net Vol	22615.99

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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Alan Mikha Wijaya

Disetujui Oleh :

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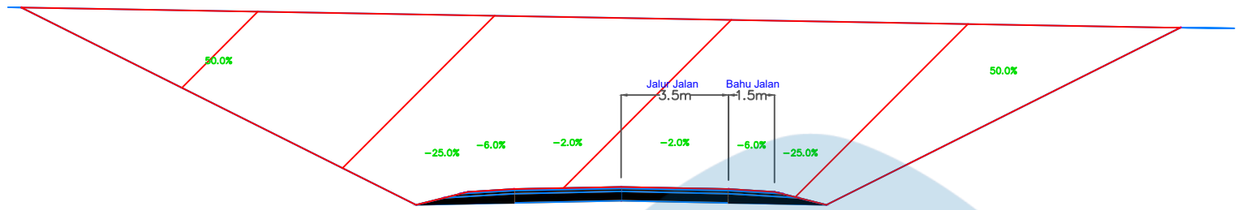
SKALA : 1:1000

STA : 3 + 300,00



Material(s) at Station 3+300.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	150.12	6783.60	409940.76
Ground Fill	0.00	0.00	380541.17

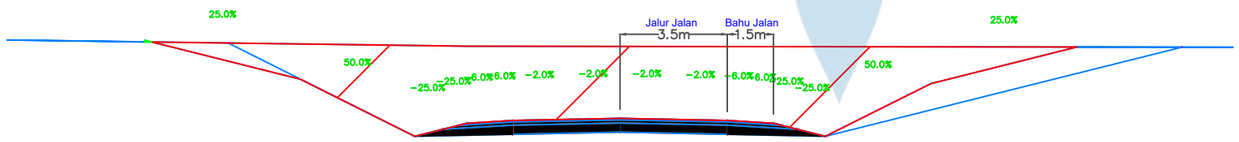
Total Volume at Station 3+300.00	
Cut Area	150.12
Fill Area	0.00
Cut Vol	6783.60
Fill Vol	0.00
Cum Cut Vol	409940.76
Cum Fill Vol	380541.17
Net Vol	29399.60

Tanah Asli

Galian

Timbunan

STA : 3 + 350,00



Material(s) at Station 3+350.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	53.67	5094.91	415035.67
Ground Fill	0.01	0.17	380541.33

Total Volume at Station 3+350.00	
Cut Area	53.67
Fill Area	0.01
Cut Vol	5094.91
Fill Vol	0.17
Cum Cut Vol	415035.67
Cum Fill Vol	380541.33
Net Vol	34494.34

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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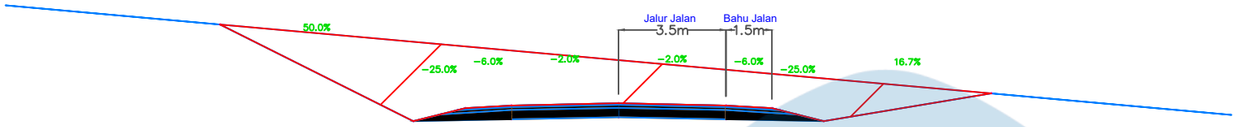
Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 3 + 400,00



Material(s) at Station 3+400.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	32.70	2159.32	417194.99
Ground Fill	0.00	0.17	380541.50

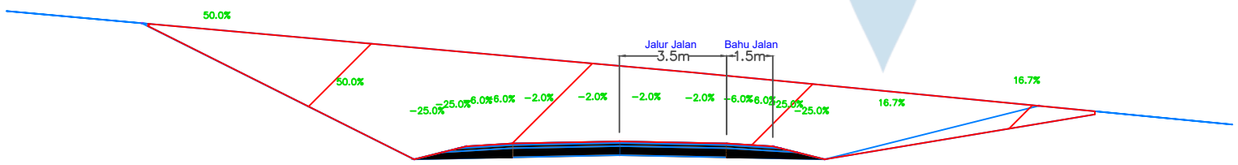
Total Volume at Station 3+400.00	
Cut Area	32.70
Fill Area	0.00
Cut Vol	2159.32
Fill Vol	0.17
Cum Cut Vol	417194.99
Cum Fill Vol	380541.50
Net Vol	38653.49

Tanah Asli

Galian

Timbunan

STA : 3 + 450,00



Material(s) at Station 3+450.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	62.14	2370.96	419565.95
Ground Fill	0.00	0.00	380541.50

Total Volume at Station 3+450.00	
Cut Area	62.14
Fill Area	0.00
Cut Vol	2370.96
Fill Vol	0.00
Cum Cut Vol	419565.95
Cum Fill Vol	380541.50
Net Vol	39024.45

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
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TAHUN AJARAN 2022/2023

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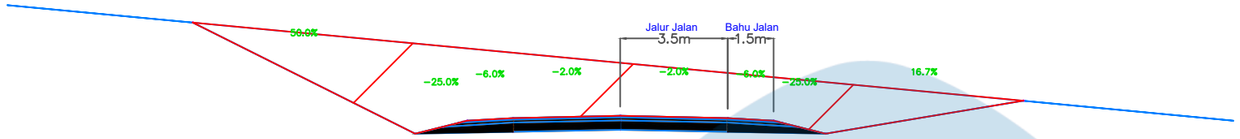
Alan Mikha Wijaya

Disetujui Oleh :

Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 3 + 500,00



Material(s) at Station 3+500.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	41.10	2580.84	422146.79
Ground Fill	0.00	0.00	380541.50

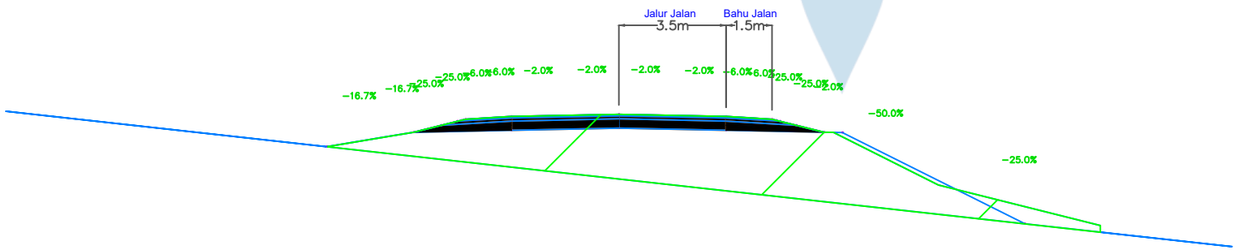
Total Volume at Station 3+500.00	
Cut Area	41.10
Fill Area	0.00
Cut Vol	2580.84
Fill Vol	0.00
Cum Cut Vol	422146.79
Cum Fill Vol	380541.50
Net Vol	41605.29

Tanah Asli

Galian

Timbunan

STA : 3 + 550,00



Material(s) at Station 3+550.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	1027.41	423174.20
Ground Fill	36.82	920.47	381461.97

Total Volume at Station 3+550.00	
Cut Area	0.00
Fill Area	36.82
Cut Vol	1027.41
Fill Vol	920.47
Cum Cut Vol	423174.20
Cum Fill Vol	381461.97
Net Vol	41712.23

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

Stanislaus Jivanta Danitza (190217591)
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Diperiksa Oleh :

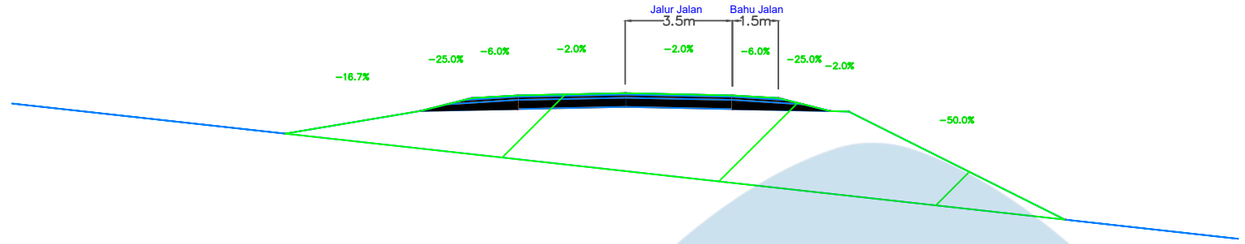
Alan Mikha Wijaya

Disetujui Oleh :

Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 3 + 600,00



Material(s) at Station 3+600.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	423174.20
Ground Fill	46.16	2074.59	383536.56

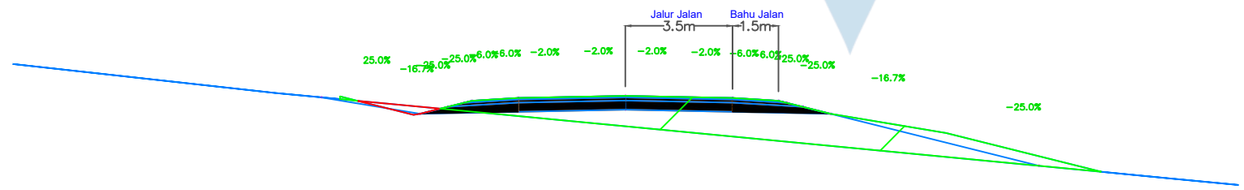
Total Volume at Station 3+600.00	
Cut Area	0.00
Fill Area	46.16
Cut Vol	0.00
Fill Vol	2074.59
Cum Cut Vol	423174.20
Cum Fill Vol	383536.56
Net Vol	39637.64

Tanah Asli

Galian

Timbunan

STA : 3 + 650,00



Material(s) at Station 3+650.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.39	9.74	423183.94
Ground Fill	17.00	1579.13	385115.69

Total Volume at Station 3+650.00	
Cut Area	0.39
Fill Area	17.00
Cut Vol	9.74
Fill Vol	1579.13
Cum Cut Vol	423183.94
Cum Fill Vol	385115.69
Net Vol	38068.26

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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Disetujui Oleh :

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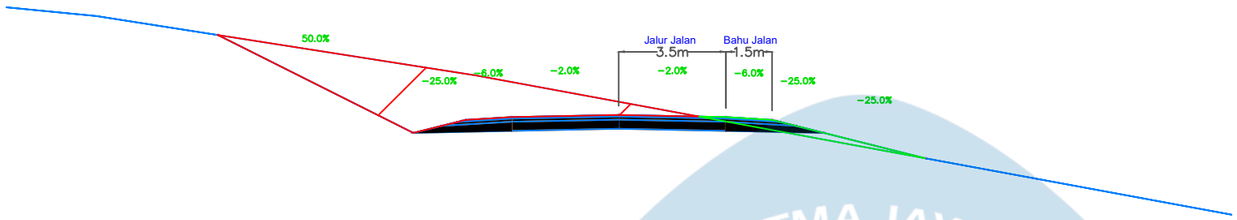
SKALA : 1:1000

STA : 3 + 700,00



Material(s) at Station 3+700.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	15.44	395.83	423579.77
Ground Fill	1.24	456.04	385571.73

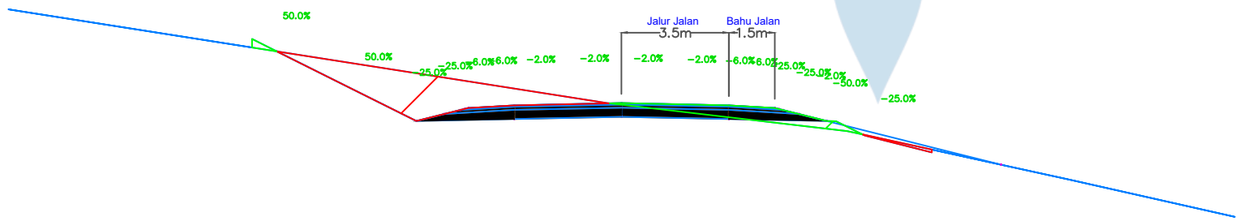
Total Volume at Station 3+700.00	
Cut Area	15.44
Fill Area	1.24
Cut Vol	395.83
Fill Vol	456.04
Cum Cut Vol	423579.77
Cum Fill Vol	385571.73
Net Vol	38008.04

Tanah Asli

Galian

Timbunan

STA : 3 + 750,00



Material(s) at Station 3+750.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	7.66	577.68	424157.46
Ground Fill	2.34	89.52	385661.25

Total Volume at Station 3+750.00	
Cut Area	7.66
Fill Area	2.34
Cut Vol	577.68
Fill Vol	89.52
Cum Cut Vol	424157.46
Cum Fill Vol	385661.25
Net Vol	38496.21

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
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SEMESTER GENAP
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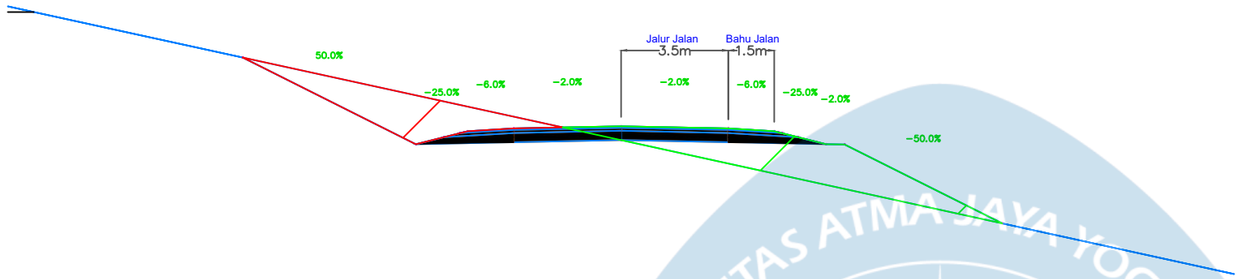
SKALA : 1:1000

STA : 3 + 800,00



Material(s) at Station 3+800.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	7.71	384.27	424541.73
Ground Fill	12.01	358.66	386019.91

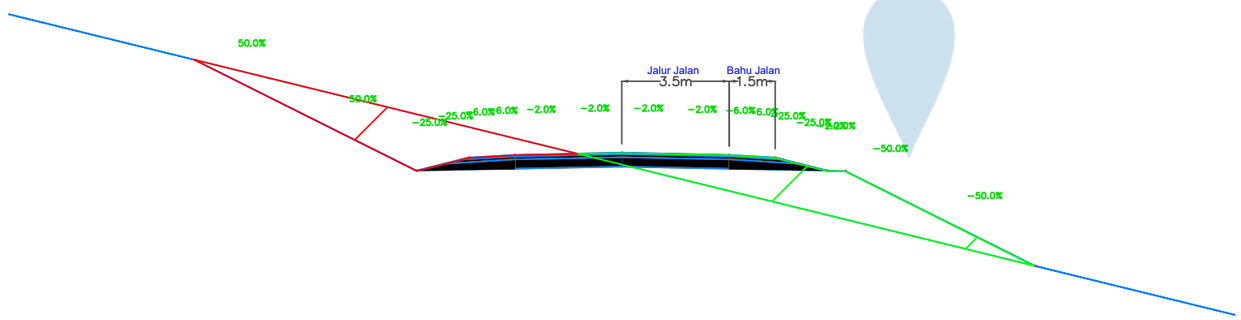
Total Volume at Station 3+800.00	
Cut Area	7.71
Fill Area	12.01
Cut Vol	384.27
Fill Vol	358.66
Cum Cut Vol	424541.73
Cum Fill Vol	386019.91
Net Vol	38521.82

Tanah Asli

Galian

Timbunan

STA : 3 + 850,00



Material(s) at Station 3+850.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	10.89	465.01	425006.74
Ground Fill	13.08	627.09	386647.00

Total Volume at Station 3+850.00	
Cut Area	10.89
Fill Area	13.08
Cut Vol	465.01
Fill Vol	627.09
Cum Cut Vol	425006.74
Cum Fill Vol	386647.00
Net Vol	38359.74

Tanah Asli

Galian

Timbunan

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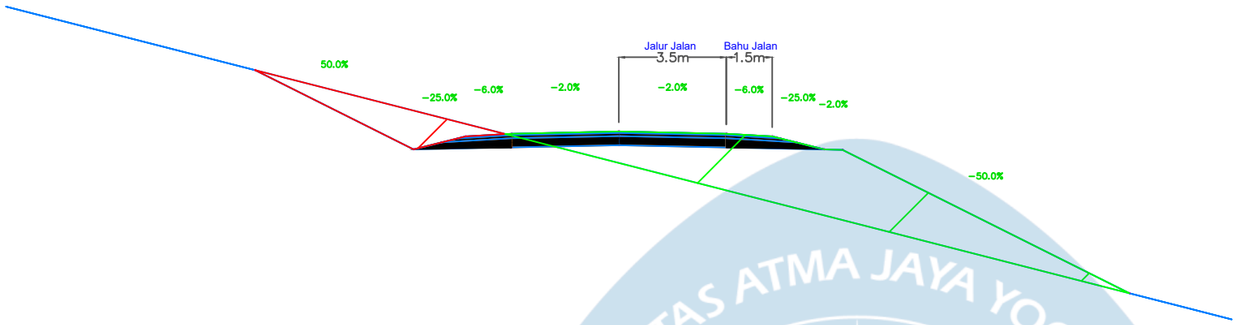
SKALA : 1:1000

STA : 3 + 900,00



Material(s) at Station 3+900.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	4.96	396.30	425403.04
Ground Fill	25.62	967.43	387614.43

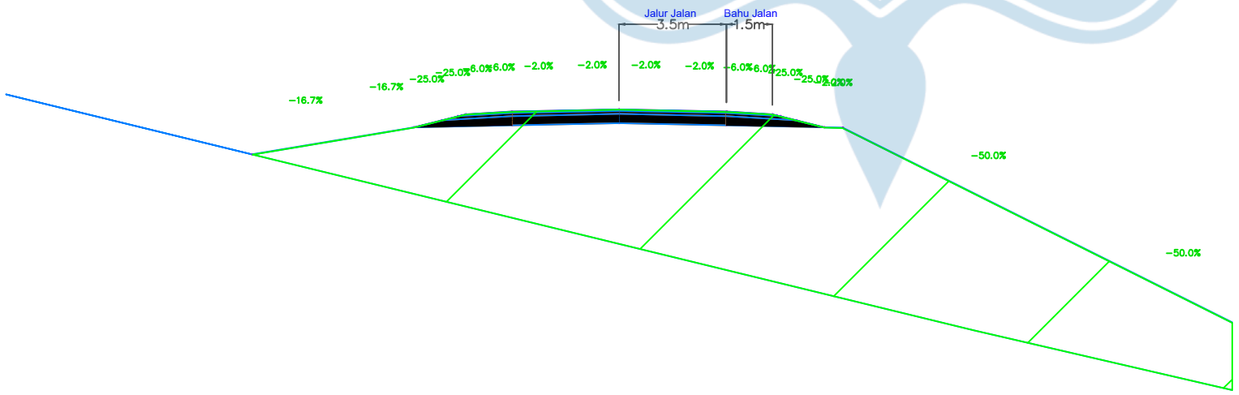
Total Volume at Station 3+900.00	
Cut Area	4.96
Fill Area	25.62
Cut Vol	396.30
Fill Vol	967.43
Cum Cut Vol	425403.04
Cum Fill Vol	387614.43
Net Vol	37788.61

Tanah Asli

Galian

Timbunan

STA : 3 + 950,00



Material(s) at Station 3+950.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	123.97	425527.01
Ground Fill	115.19	3520.18	391134.61

Total Volume at Station 3+950.00	
Cut Area	0.00
Fill Area	115.19
Cut Vol	123.97
Fill Vol	3520.18
Cum Cut Vol	425527.01
Cum Fill Vol	391134.61
Net Vol	34392.40

Tanah Asli

Galian

Timbunan

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SEMESTER GENAP
TAHUN AJARAN 2022/2023

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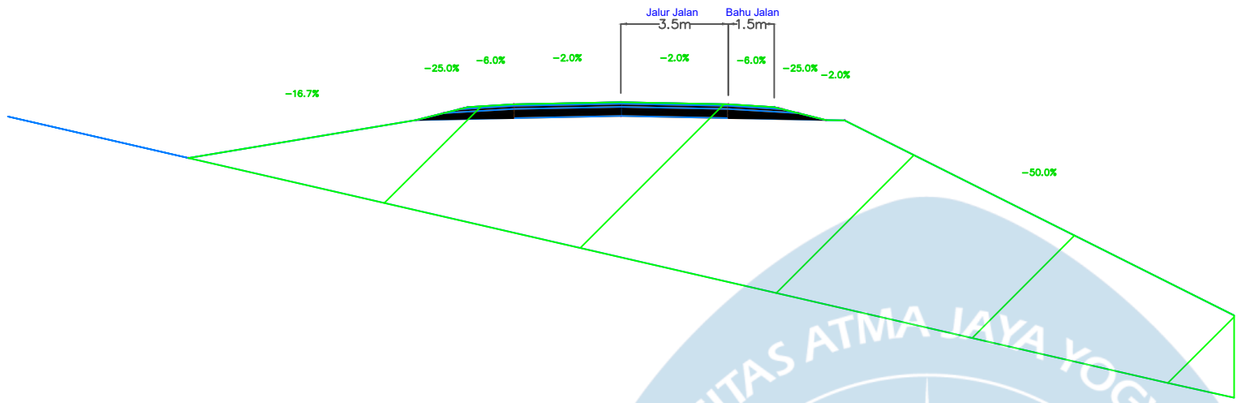
Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 4 + 000,00



Tanah Asli

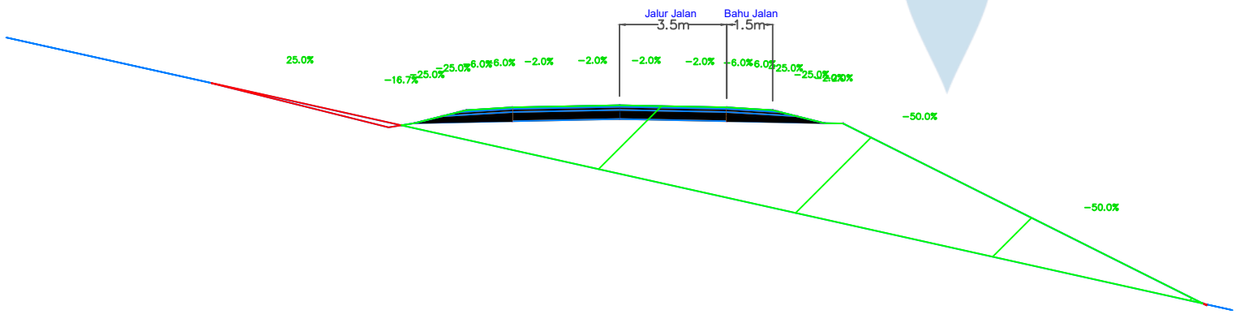
Galian

Timbunan

Material(s) at Station 4+000.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	425527.01
Ground Fill	136.52	6292.75	397427.36

Total Volume at Station 4+000.00	
Cut Area	0.00
Fill Area	136.52
Cut Vol	0.00
Fill Vol	6292.75
Cum Cut Vol	425527.01
Cum Fill Vol	397427.36
Net Vol	28099.66

STA : 4 + 050,00



Tanah Asli

Galian

Timbunan

Material(s) at Station 4+050.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.53	13.15	425540.16
Ground Fill	49.13	4641.46	402068.82

Total Volume at Station 4+050.00	
Cut Area	0.53
Fill Area	49.13
Cut Vol	13.15
Fill Vol	4641.46
Cum Cut Vol	425540.16
Cum Fill Vol	402068.82
Net Vol	23471.34

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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Alan Mikha Wijaya

Disetujui Oleh :

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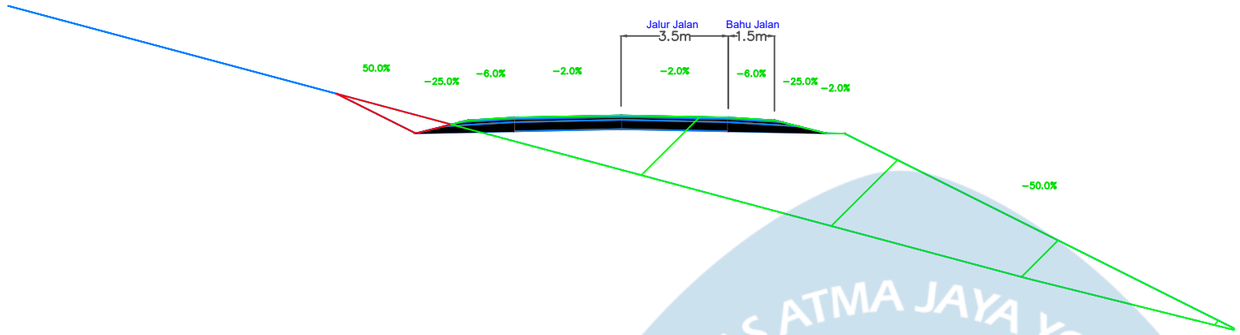
SKALA : 1:1000

STA : 4 + 100,00



Material(s) at Station 4+100.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	1.12	41.09	425581.25
Ground Fill	44.67	2345.24	404414.06

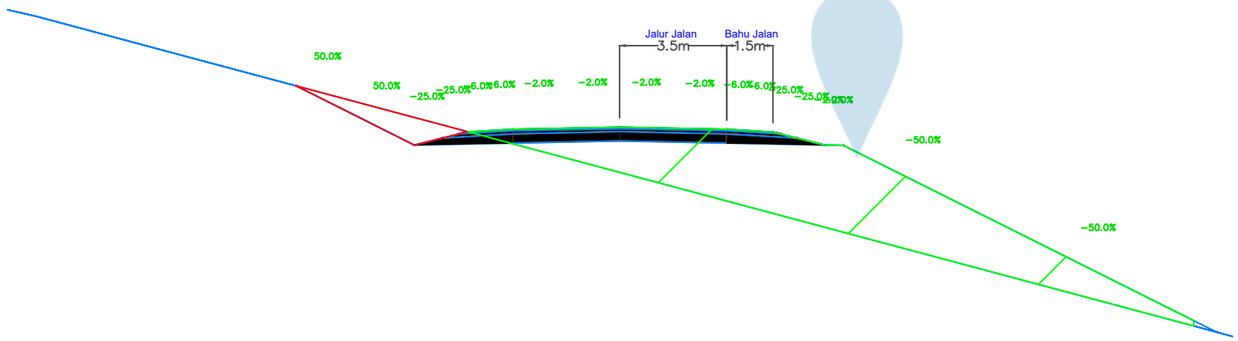
Total Volume at Station 4+100.00	
Cut Area	1.12
Fill Area	44.67
Cut Vol	41.09
Fill Vol	2345.24
Cum Cut Vol	425581.25
Cum Fill Vol	404414.06
Net Vol	21167.19

Tanah Asli

Galian

Timbunan

STA : 4 + 150,00



Material(s) at Station 4+150.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	2.51	90.66	425671.91
Ground Fill	37.54	2055.27	406469.32

Total Volume at Station 4+150.00	
Cut Area	2.51
Fill Area	37.54
Cut Vol	90.66
Fill Vol	2055.27
Cum Cut Vol	425671.91
Cum Fill Vol	406469.32
Net Vol	19202.58

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

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Diperiksa Oleh :

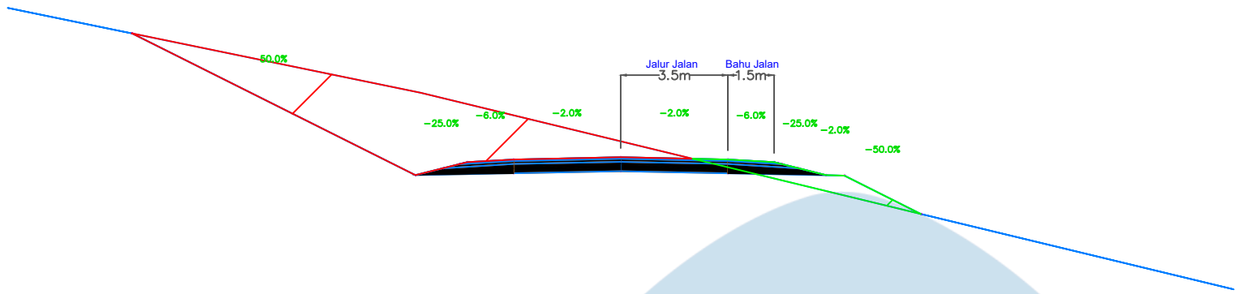
Alan Mikha Wijaya

Disetujui Oleh :

Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 4 + 200,00



Material(s) at Station 4+200.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	23.06	639.22	426311.13
Ground Fill	2.78	1007.80	407477.12

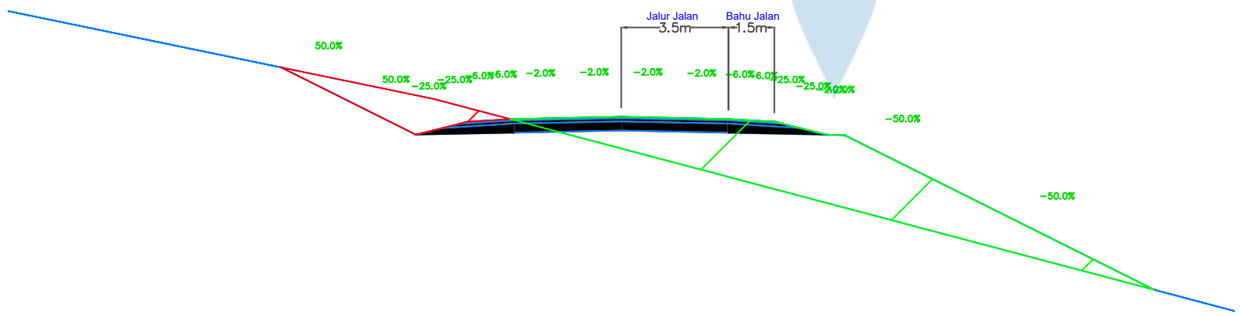
Total Volume at Station 4+200.00	
Cut Area	23.06
Fill Area	2.78
Cut Vol	639.22
Fill Vol	1007.80
Cum Cut Vol	426311.13
Cum Fill Vol	407477.12
Net Vol	18834.01

Tanah Asli

Galian

Timbunan

STA : 4 + 250,00



Material(s) at Station 4+250.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	4.64	692.57	427003.70
Ground Fill	27.14	747.92	408225.04

Total Volume at Station 4+250.00	
Cut Area	4.64
Fill Area	27.14
Cut Vol	692.57
Fill Vol	747.92
Cum Cut Vol	427003.70
Cum Fill Vol	408225.04
Net Vol	18778.66

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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Disetujui Oleh :

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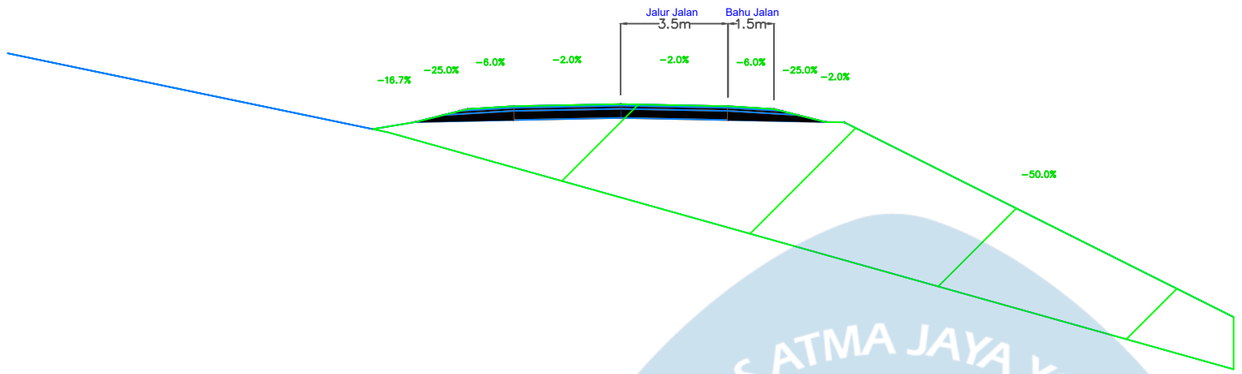
SKALA : 1:1000

STA : 4 + 300,00



Material(s) at Station 4+300.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	116.07	427119.77
Ground Fill	81.20	2708.44	410933.48

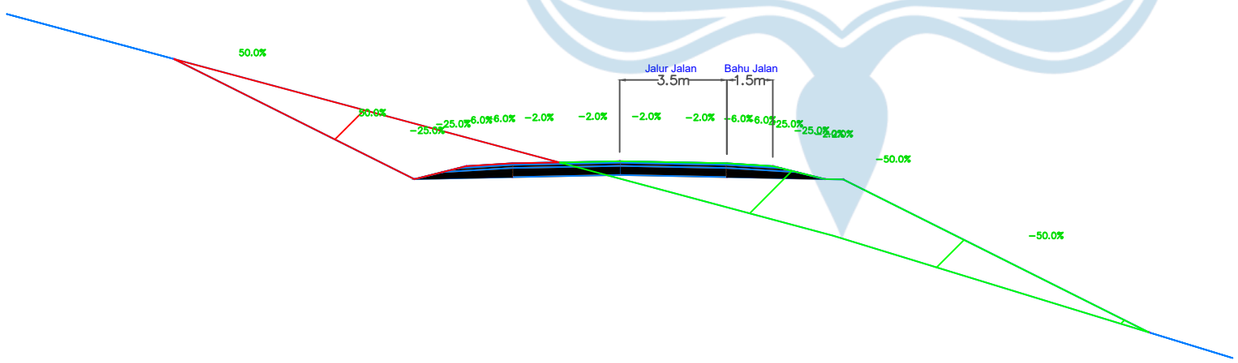
Total Volume at Station 4+300.00	
Cut Area	0.00
Fill Area	81.20
Cut Vol	116.07
Fill Vol	2708.44
Cum Cut Vol	427119.77
Cum Fill Vol	410933.48
Net Vol	16186.29

Tanah Asli

Galian

Timbunan

STA : 4 + 350,00



Material(s) at Station 4+350.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	10.82	270.47	427390.24
Ground Fill	20.17	2534.16	413467.64

Total Volume at Station 4+350.00	
Cut Area	10.82
Fill Area	20.17
Cut Vol	270.47
Fill Vol	2534.16
Cum Cut Vol	427390.24
Cum Fill Vol	413467.64
Net Vol	13922.60

Tanah Asli

Galian

Timbunan

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INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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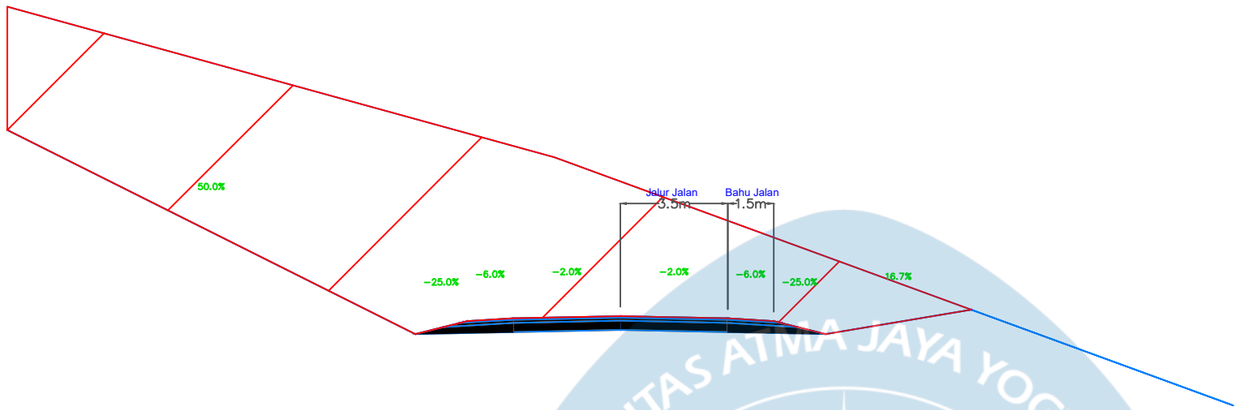
SKALA : 1:1000

STA : 4 + 400,00



Tanah Asli

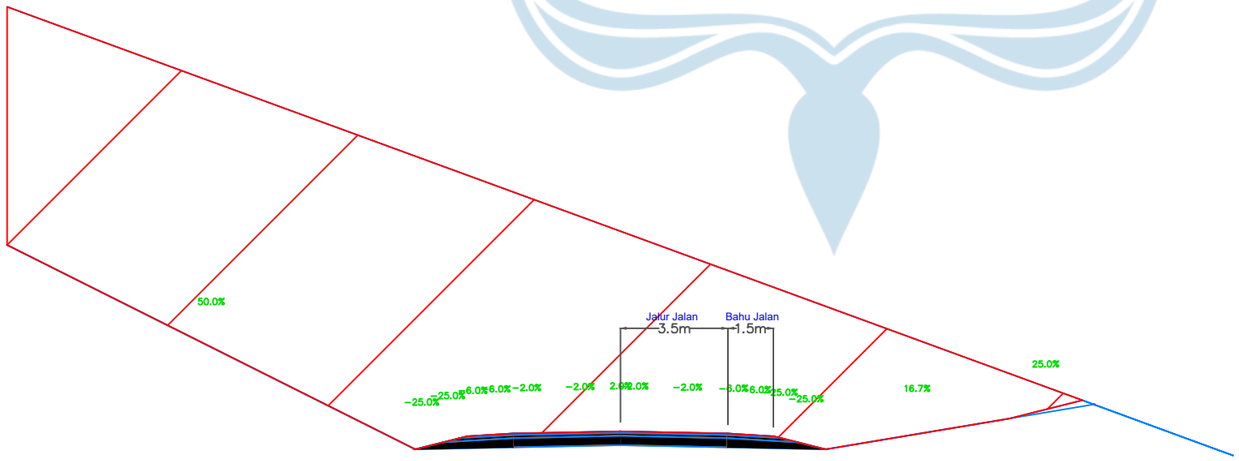
Galian

Timbunan

Material(s) at Station 4+400.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	139.17	3749.67	431139.92
Ground Fill	0.00	504.25	413971.89

Total Volume at Station 4+400.00	
Cut Area	139.17
Fill Area	0.00
Cut Vol	3749.67
Fill Vol	504.25
Cum Cut Vol	431139.92
Cum Fill Vol	413971.89
Net Vol	17168.02

STA : 4 + 425,00



Tanah Asli

Galian

Timbunan

Material(s) at Station 4+425.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	224.55	4546.41	435686.33
Ground Fill	0.00	0.00	413971.89

Total Volume at Station 4+425.00	
Cut Area	224.55
Fill Area	0.00
Cut Vol	4546.41
Fill Vol	0.00
Cum Cut Vol	435686.33
Cum Fill Vol	413971.89
Net Vol	21714.44

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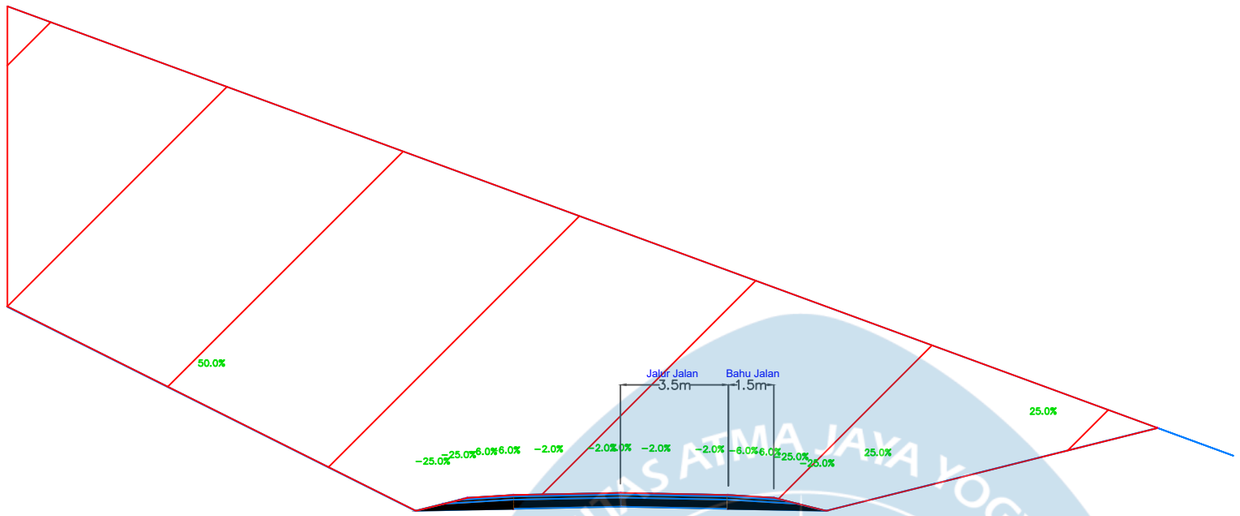
SKALA : 1:1000

STA : 4 + 450,00



Material(s) at Station 4+450.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	294.45	6487.41	442173.74
Ground Fill	0.00	0.00	413971.89

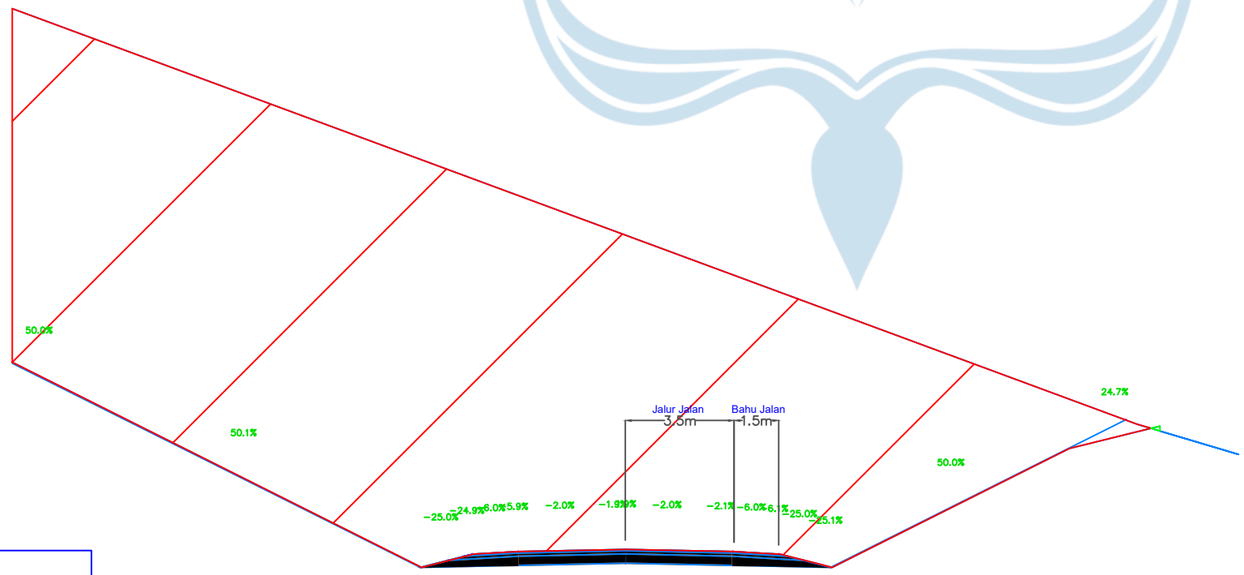
Total Volume at Station 4+450.00	
Cut Area	294.45
Fill Area	0.00
Cut Vol	6487.41
Fill Vol	0.00
Cum Cut Vol	442173.74
Cum Fill Vol	413971.89
Net Vol	28201.85

Tanah Asli

Galian

Timbunan

STA : 4 + 475,00



Material(s) at Station 4+475.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	345.17	8040.13	450213.87
Ground Fill	0.02	0.29	413972.18

Total Volume at Station 4+475.00	
Cut Area	345.17
Fill Area	0.02
Cut Vol	8040.13
Fill Vol	0.29
Cum Cut Vol	450213.87
Cum Fill Vol	413972.18
Net Vol	36241.69

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
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TAHUN AJARAN 2022/2023

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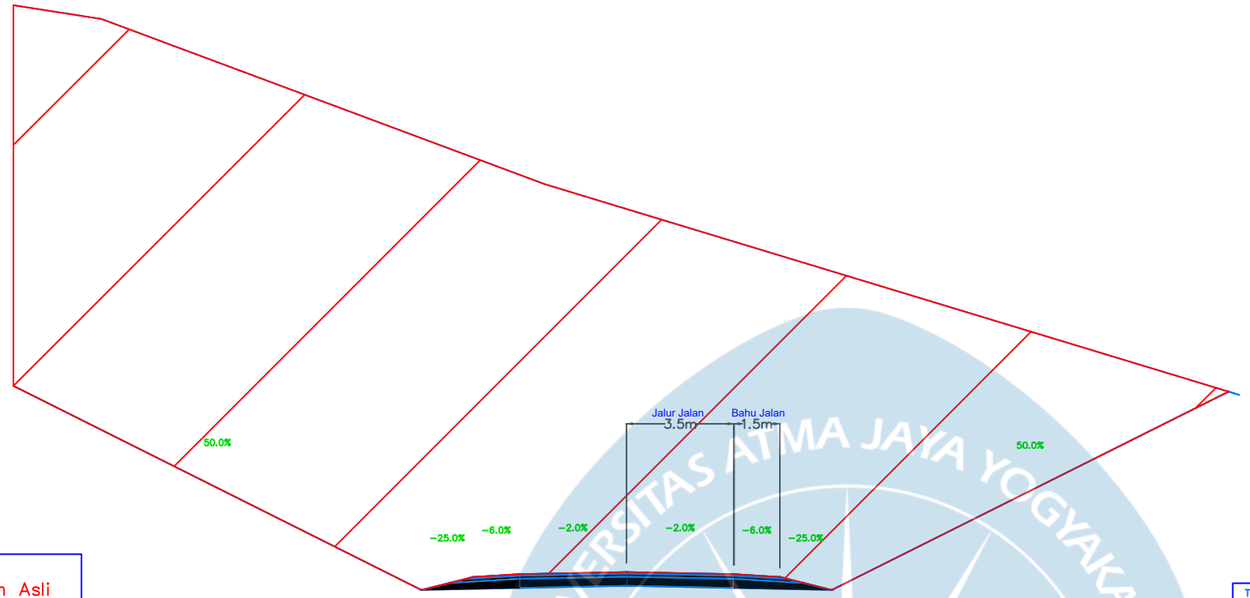
SKALA : 1:1000

STA : 4 + 500,00



Material(s) at Station 4+500.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	412.05	9534.93	459748.81
Ground Fill	0.00	0.29	413972.47

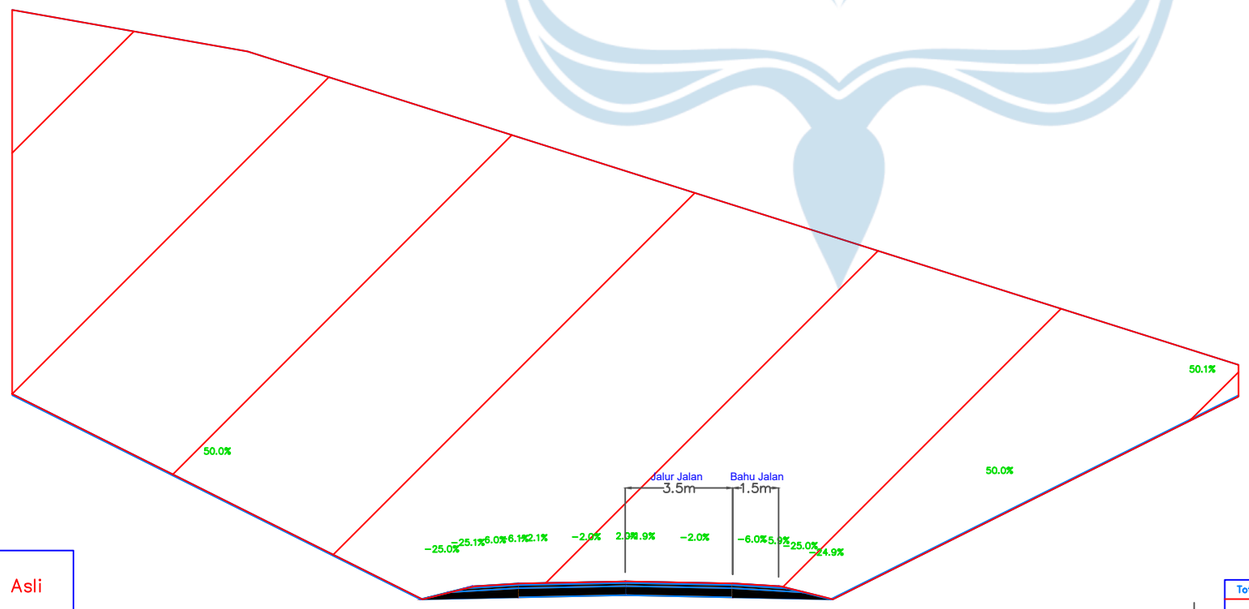
Total Volume at Station 4+500.00	
Cut Area	412.05
Fill Area	0.00
Cut Vol	9534.93
Fill Vol	0.29
Cum Cut Vol	459748.81
Cum Fill Vol	413972.47
Net Vol	45776.33

Tanah Asli

Galian

Timbunan

STA : 4 + 525,00



Material(s) at Station 4+525.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	460.10	10983.94	470732.75
Ground Fill	0.00	0.00	413972.47

Total Volume at Station 4+525.00	
Cut Area	460.10
Fill Area	0.00
Cut Vol	10983.94
Fill Vol	0.00
Cum Cut Vol	470732.75
Cum Fill Vol	413972.47
Net Vol	56760.28

Tanah Asli

Galian

Timbunan

UNIVERSITAS ATMA JAYA YOGYAKARTA

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

Stanislaus Jivanta Danitza (190217591)
Adelia Sherlly Quinones (200218232)
Tsabita Qotrunnada (200218303)

Diperiksa Oleh :

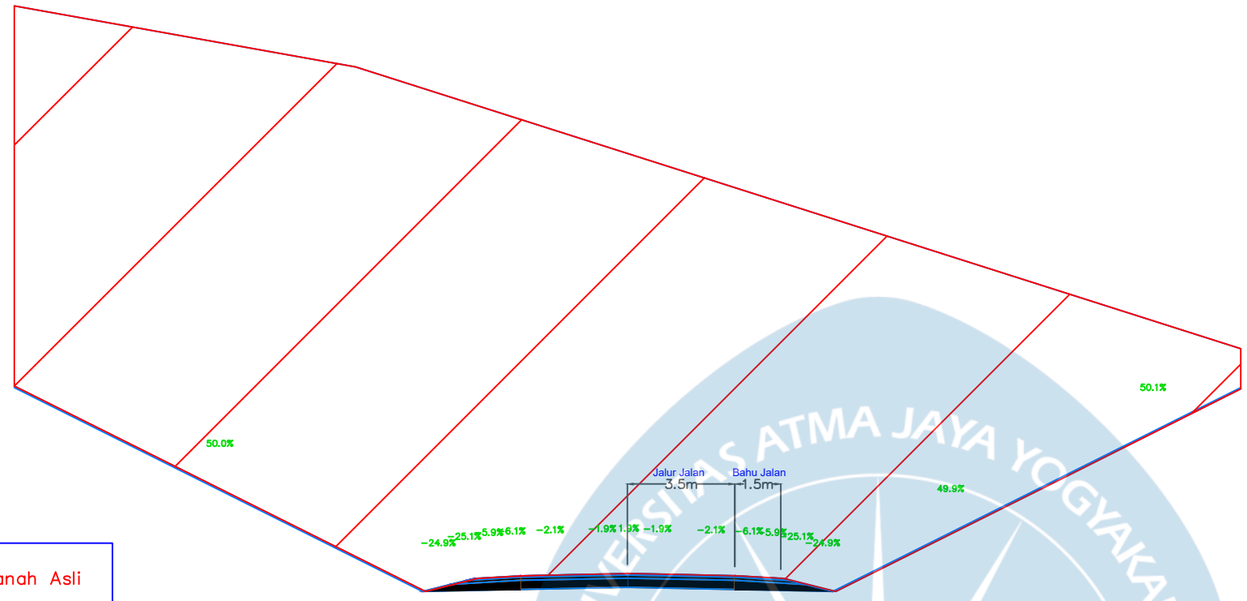
Alan Mikha Wijaya

Disetujui Oleh :

Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 4 + 550,00



Material(s) at Station 4+550.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	468.35	11684.17	482416.91
Ground Fill	0.00	0.00	413972.47

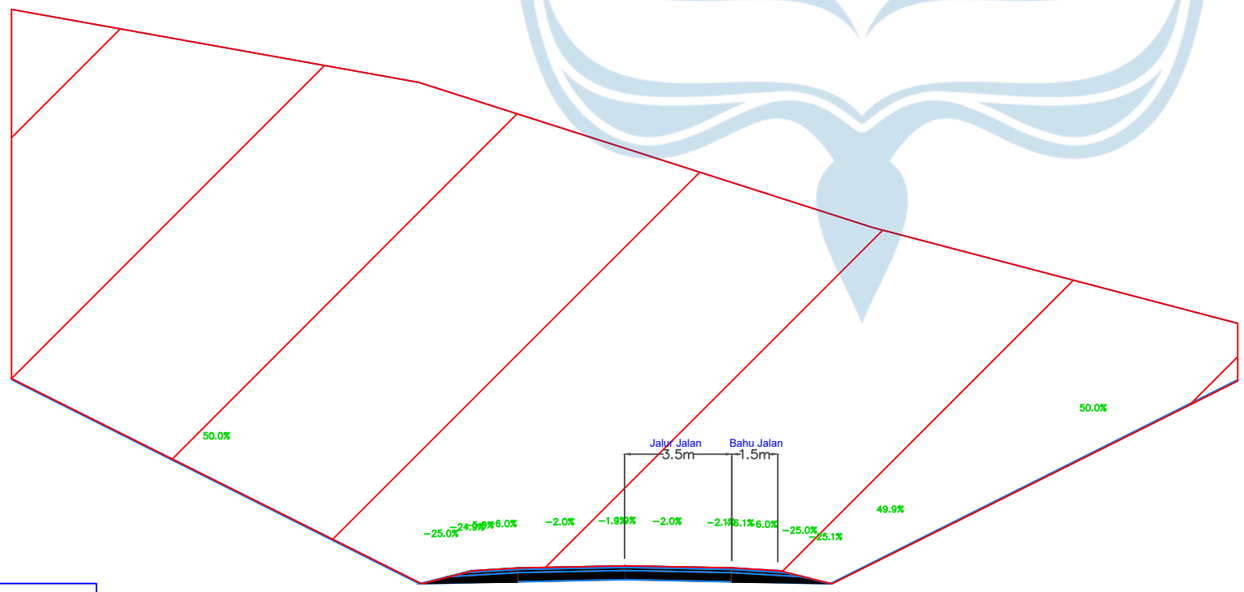
Total Volume at Station 4+550.00	
Cut Area	468.35
Fill Area	0.00
Cut Vol	11684.17
Fill Vol	0.00
Cum Cut Vol	482416.91
Cum Fill Vol	413972.47
Net Vol	68444.44

Tanah Asli

Galian

Timbunan

STA : 4 + 575,00



Material(s) at Station 4+575.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	465.46	11746.98	494163.89
Ground Fill	0.00	0.00	413972.47

Total Volume at Station 4+575.00	
Cut Area	465.46
Fill Area	0.00
Cut Vol	11746.98
Fill Vol	0.00
Cum Cut Vol	494163.89
Cum Fill Vol	413972.47
Net Vol	80191.42

Tanah Asli

Galian

Timbunan

UNIVERSITAS ATMA JAYA YOGYAKARTA

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

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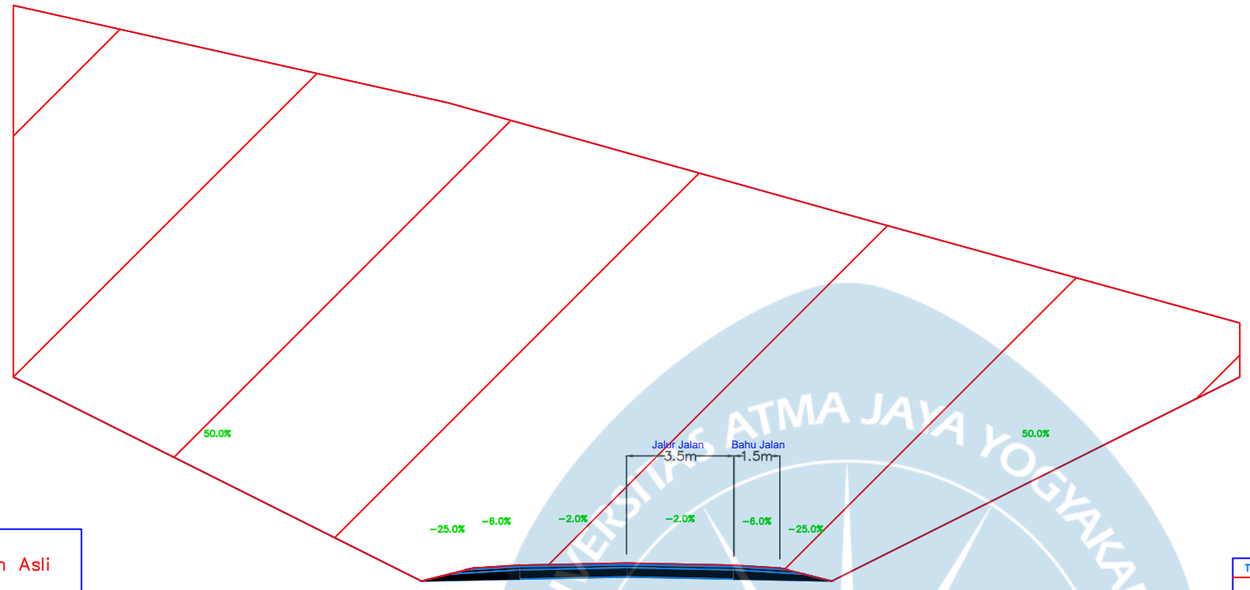
SKALA : 1:1000

STA : 4 + 600,00



Material(s) at Station 4+600.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	458.83	11624.46	505788.35
Ground Fill	0.00	0.00	413972.47

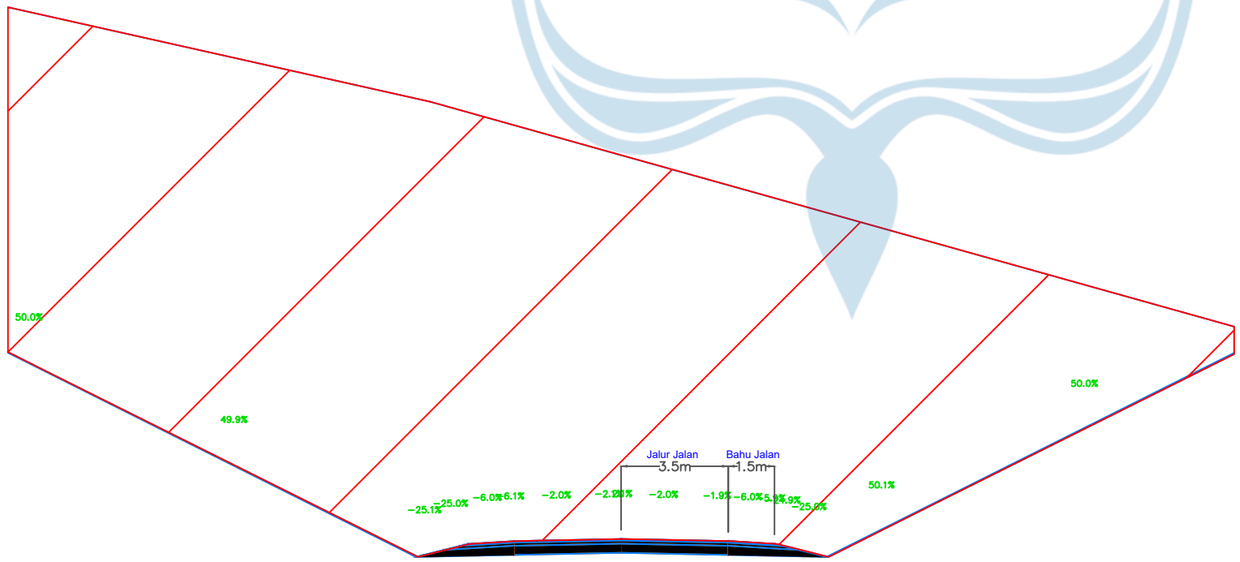
Total Volume at Station 4+600.00	
Cut Area	458.83
Fill Area	0.00
Cut Vol	11624.46
Fill Vol	0.00
Cum Cut Vol	505788.35
Cum Fill Vol	413972.47
Net Vol	91815.88

Tanah Asli

Galian

Timbunan

STA : 4 + 625,00



Material(s) at Station 4+625.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	424.40	11110.32	516898.67
Ground Fill	0.00	0.00	413972.47

Total Volume at Station 4+625.00	
Cut Area	424.40
Fill Area	0.00
Cut Vol	11110.32
Fill Vol	0.00
Cum Cut Vol	516898.67
Cum Fill Vol	413972.47
Net Vol	102926.20

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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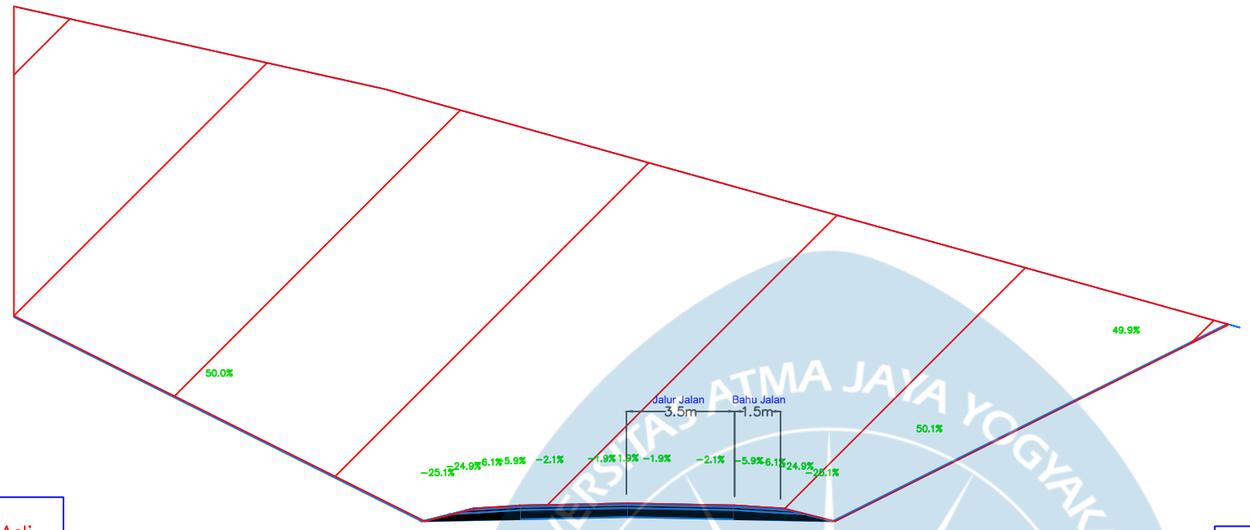
SKALA : 1:1000

STA : 4 + 650,00



Material(s) at Station 4+650.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	377.13	10089.20	526987.87
Ground Fill	0.00	0.00	413972.47

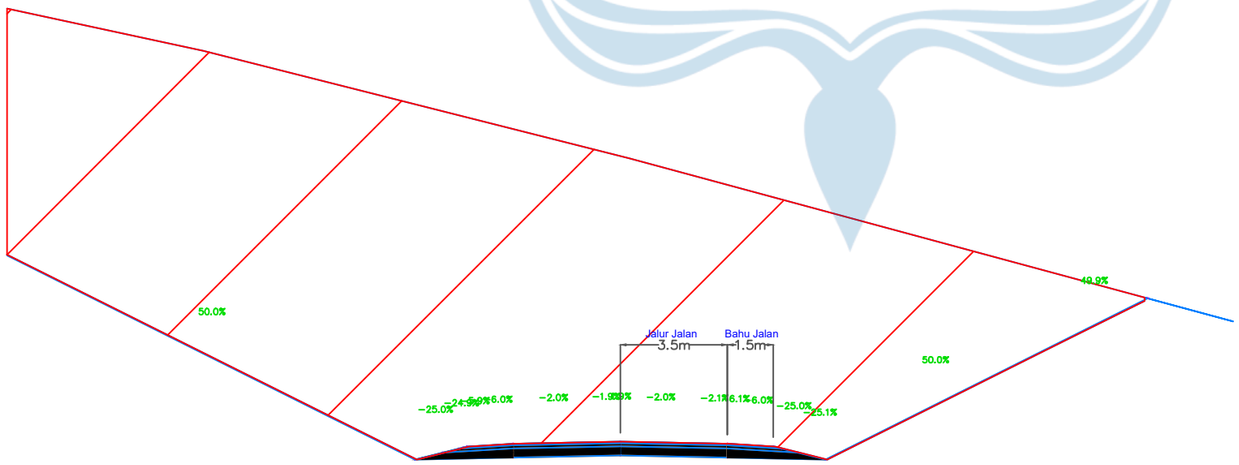
Total Volume at Station 4+650.00	
Cut Area	377.13
Fill Area	0.00
Cut Vol	10089.20
Fill Vol	0.00
Cum Cut Vol	526987.87
Cum Fill Vol	413972.47
Net Vol	113015.40

Tanah Asli

Galian

Timbunan

STA : 4 + 675,00



Material(s) at Station 4+675.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	300.11	8533.52	535521.40
Ground Fill	0.00	0.00	413972.47

Total Volume at Station 4+675.00	
Cut Area	300.11
Fill Area	0.00
Cut Vol	8533.52
Fill Vol	0.00
Cum Cut Vol	535521.40
Cum Fill Vol	413972.47
Net Vol	121548.93

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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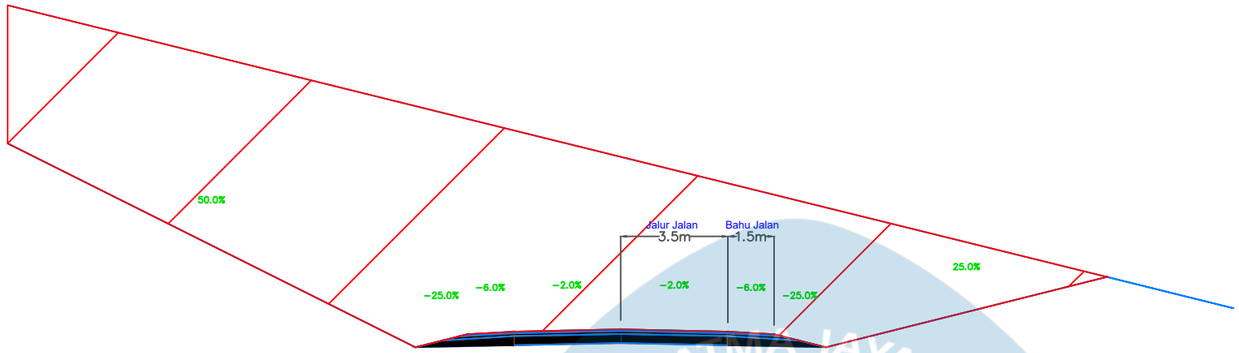
SKALA : 1:1000

STA : 4 + 700,00



Material(s) at Station 4+700.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	180.38	6061.36	541582.75
Ground Fill	0.00	0.00	413972.47

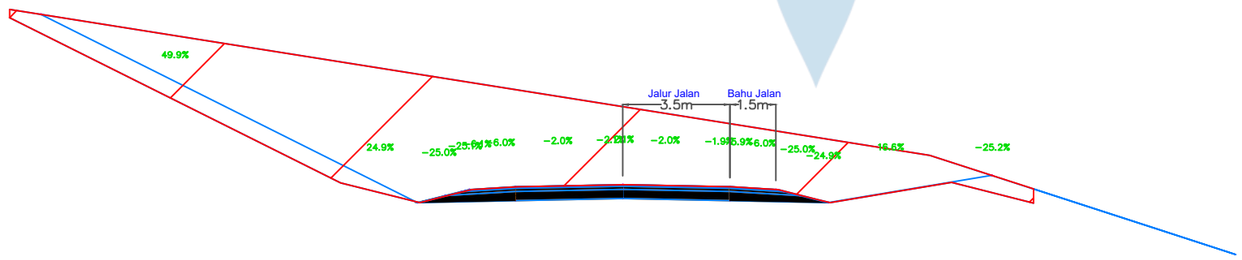
Total Volume at Station 4+700.00	
Cut Area	180.38
Fill Area	0.00
Cut Vol	6061.36
Fill Vol	0.00
Cum Cut Vol	541582.75
Cum Fill Vol	413972.47
Net Vol	127610.28

Tanah Asli

Galian

Timbunan

STA : 4 + 725,00



Material(s) at Station 4+725.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	76.14	3237.40	544820.15
Ground Fill	0.00	0.00	413972.47

Total Volume at Station 4+725.00	
Cut Area	76.14
Fill Area	0.00
Cut Vol	3237.40
Fill Vol	0.00
Cum Cut Vol	544820.15
Cum Fill Vol	413972.47
Net Vol	130847.68

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

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Disetujui Oleh :

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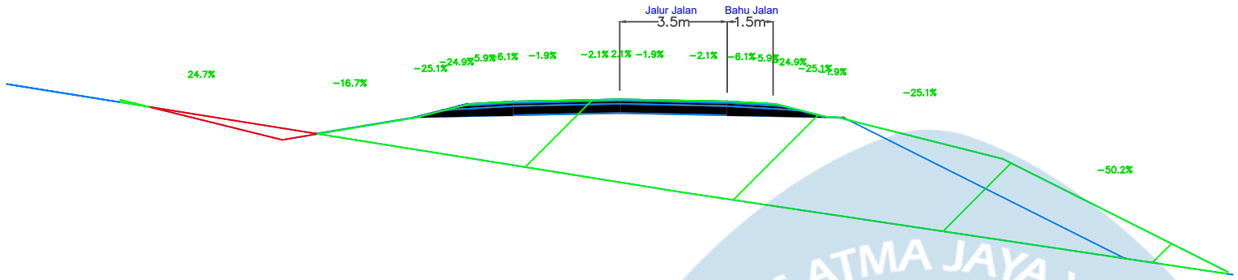
SKALA : 1:1000

STA : 4 +750,00



Material(s) at Station 4+750.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	1.04	973.55	545793.70
Ground Fill	62.92	778.29	414750.76

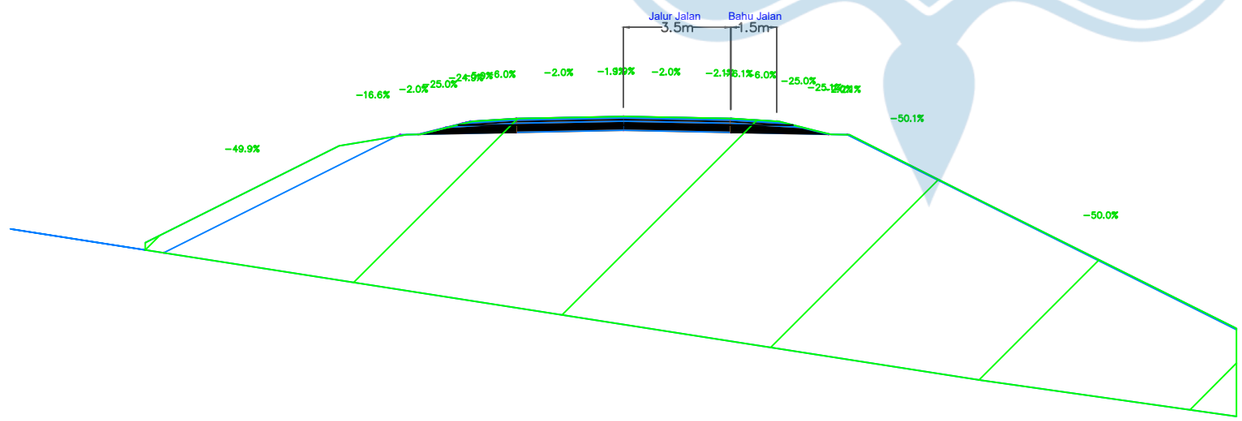
Total Volume at Station 4+750.00	
Cut Area	1.04
Fill Area	62.92
Cut Vol	973.55
Fill Vol	778.29
Cum Cut Vol	545793.70
Cum Fill Vol	414750.76
Net Vol	131042.95

Tanah Asli

Galian

Timbunan

STA : 4 + 775,00



Material(s) at Station 4+775.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	13.25	545806.96
Ground Fill	185.55	3082.00	417832.76

Total Volume at Station 4+775.00	
Cut Area	0.00
Fill Area	185.55
Cut Vol	13.25
Fill Vol	3082.00
Cum Cut Vol	545806.96
Cum Fill Vol	417832.76
Net Vol	127974.20

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

Stanislaus Jivanta Danitza (190217591)
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Disetujui Oleh :

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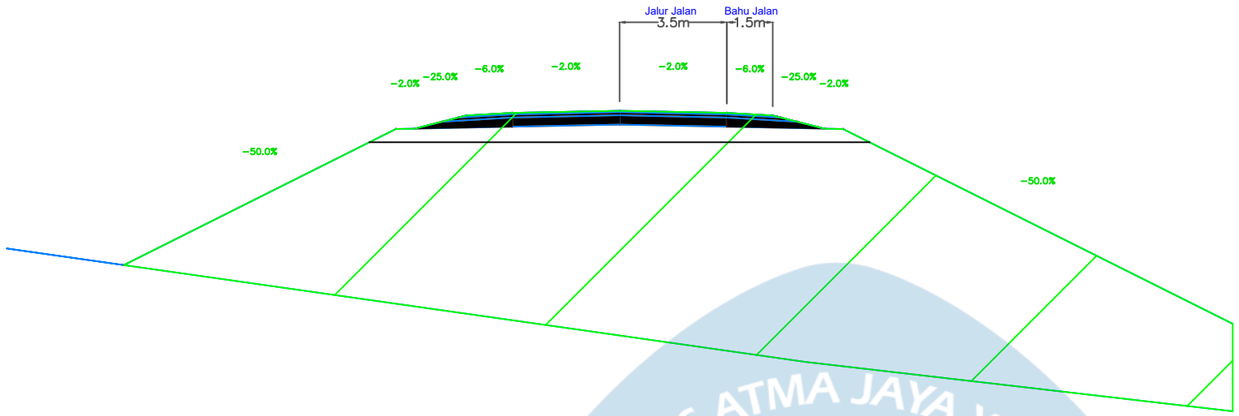
SKALA : 1:1000

STA : 4 + 800,00



Material(s) at Station 4+800.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	545806.96
Ground Fill	196.98	4750.21	422582.96

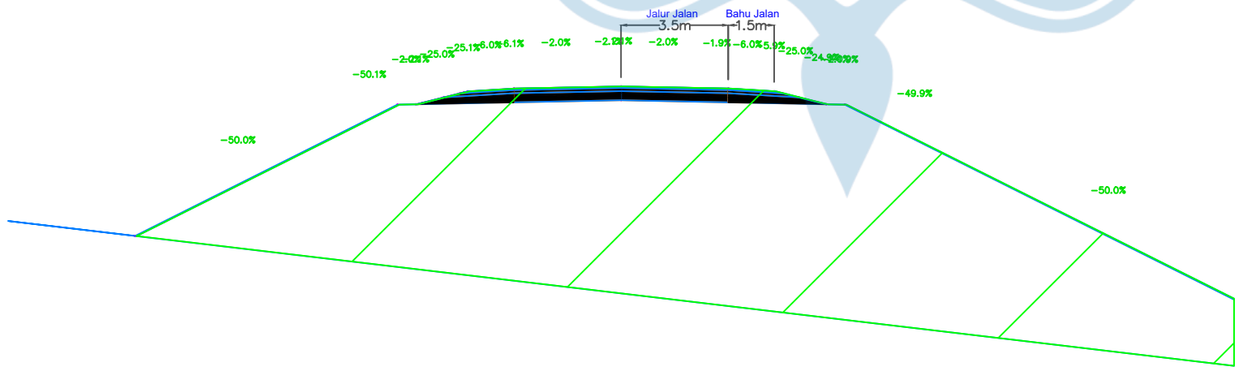
Total Volume at Station 4+800.00	
Cut Area	0.00
Fill Area	196.98
Cut Vol	0.00
Fill Vol	4750.21
Cum Cut Vol	545806.96
Cum Fill Vol	422582.96
Net Vol	123223.99

Tanah Asli

Galian

Timbunan

STA : 4 + 825,00



Material(s) at Station 4+825.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	545806.96
Ground Fill	176.93	4645.28	427228.25

Total Volume at Station 4+825.00	
Cut Area	0.00
Fill Area	176.93
Cut Vol	0.00
Fill Vol	4645.28
Cum Cut Vol	545806.96
Cum Fill Vol	427228.25
Net Vol	118578.71

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

Stanislaus Jivanta Danitza (190217591)
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Diperiksa Oleh :

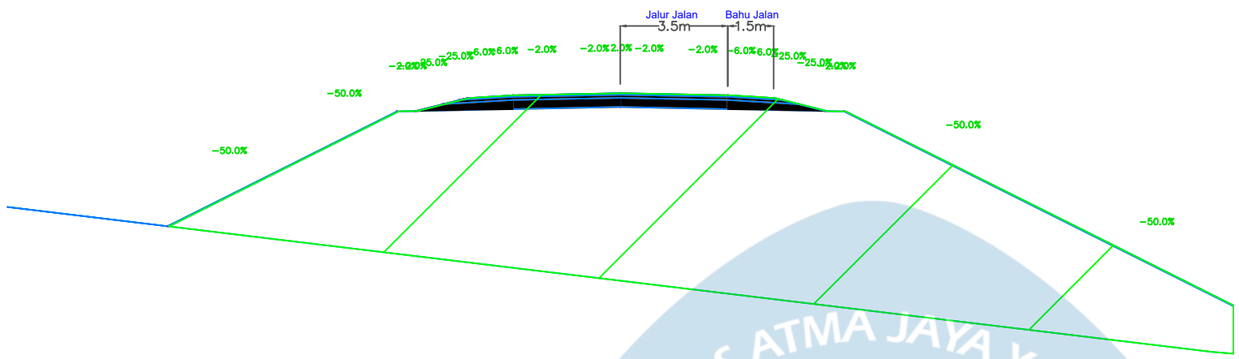
Alan Mikha Wijaya

Disetujui Oleh :

Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 4 + 850,00



Material(s) at Station 4+850.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	545806.96
Ground Fill	154.75	4126.20	431354.44

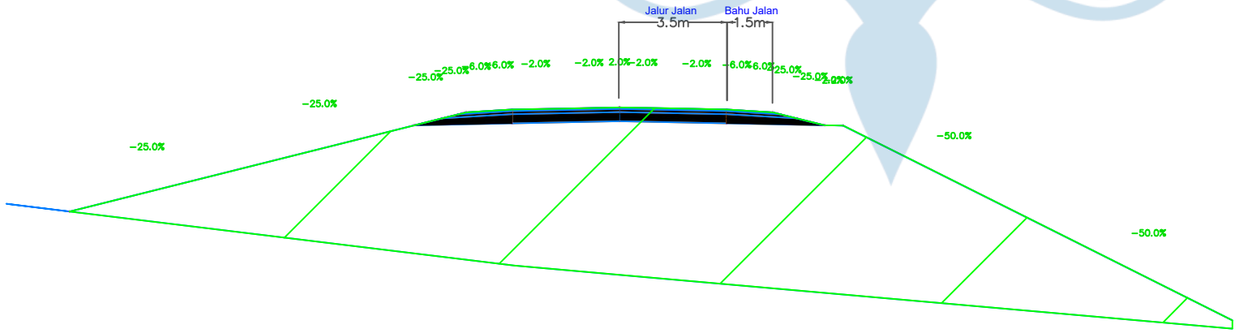
Total Volume at Station 4+850.00	
Cut Area	0.00
Fill Area	154.75
Cut Vol	0.00
Fill Vol	4126.20
Cum Cut Vol	545806.96
Cum Fill Vol	431354.44
Net Vol	114452.51

Tanah Asli

Galian

Timbunan

STA : 8 + 875,00



Material(s) at Station 4+875.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	545806.96
Ground Fill	134.55	3606.99	434961.43

Total Volume at Station 4+875.00	
Cut Area	0.00
Fill Area	134.55
Cut Vol	0.00
Fill Vol	3606.99
Cum Cut Vol	545806.96
Cum Fill Vol	434961.43
Net Vol	110845.53

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

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Disetujui Oleh :

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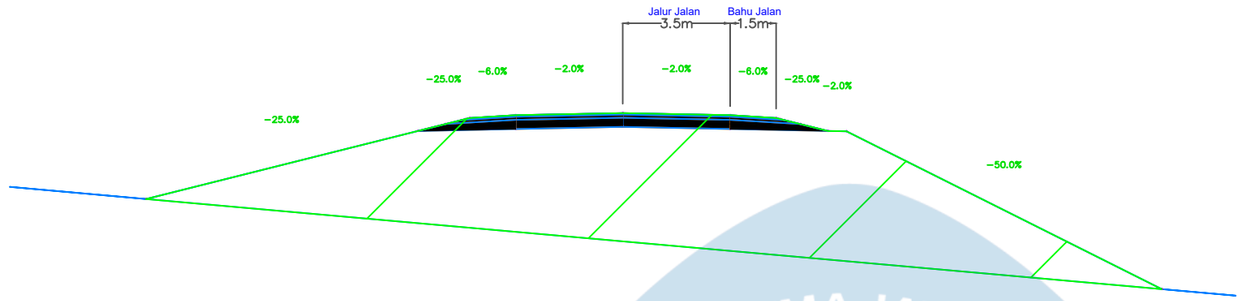
SKALA : 1:1000

STA : 4 + 900,00



Tanah Asli

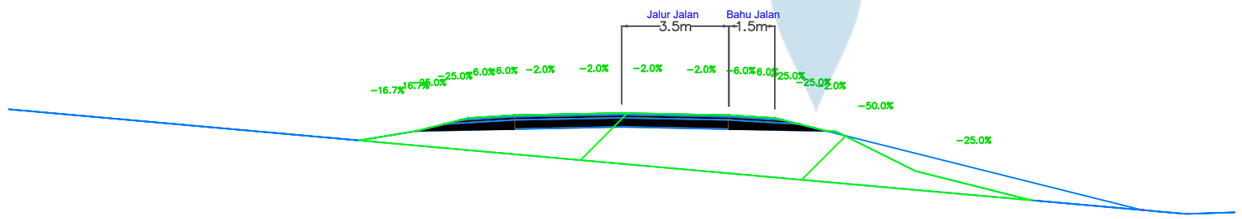
Galian

Timbunan

Material(s) at Station 4+900.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	545806.96
Ground Fill	91.71	2828.22	437789.66

Total Volume at Station 4+900.00	
Cut Area	0.00
Fill Area	91.71
Cut Vol	0.00
Fill Vol	2828.22
Cum Cut Vol	545806.96
Cum Fill Vol	437789.66
Net Vol	108017.30

STA : 0 + 050,00



Tanah Asli

Galian

Timbunan

Material(s) at Station 4+950.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	545806.96
Ground Fill	25.34	2926.24	440715.89

Total Volume at Station 4+950.00	
Cut Area	0.00
Fill Area	25.34
Cut Vol	0.00
Fill Vol	2926.24
Cum Cut Vol	545806.96
Cum Fill Vol	440715.89
Net Vol	105091.07

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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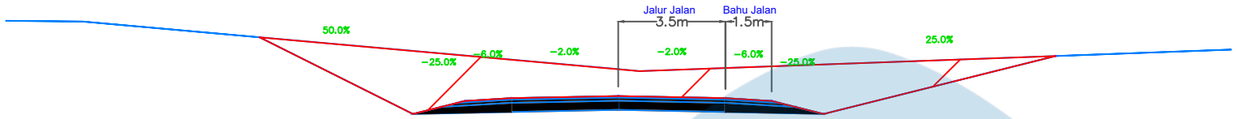
SKALA : 1:1000

STA : 5 + 000,00



Material(s) at Station 5+000.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	27.09	677.33	546484.29
Ground Fill	0.00	633.53	441349.42

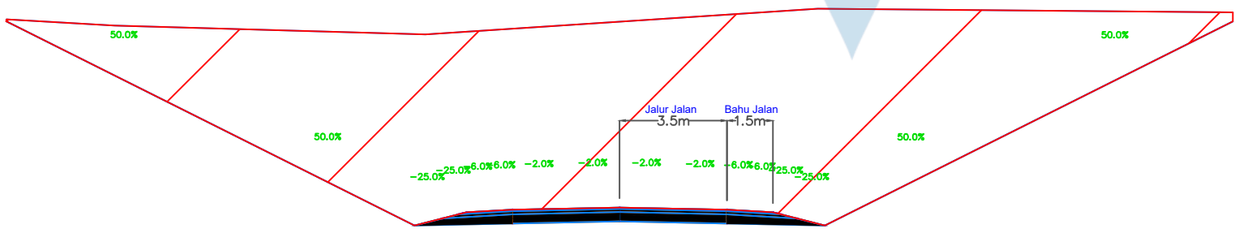
Total Volume at Station 5+000.00	
Cut Area	27.09
Fill Area	0.00
Cut Vol	677.33
Fill Vol	633.53
Cum Cut Vol	546484.29
Cum Fill Vol	441349.42
Net Vol	105134.87

Tanah Asli

Galian

Timbunan

STA : 5 + 050,00



Material(s) at Station 5+050.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	173.39	5011.97	551496.26
Ground Fill	0.00	0.00	441349.42

Total Volume at Station 5+050.00	
Cut Area	173.39
Fill Area	0.00
Cut Vol	5011.97
Fill Vol	0.00
Cum Cut Vol	551496.26
Cum Fill Vol	441349.42
Net Vol	110146.84

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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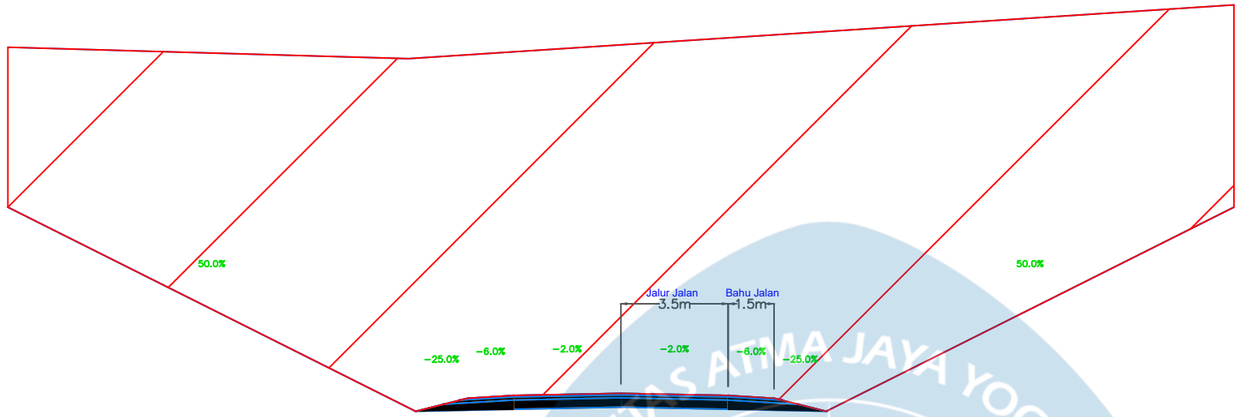
SKALA : 1:1000

STA : 5 + 100,00



Material(s) at Station 5+100.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	391.37	14118.90	565615.17
Ground Fill	0.00	0.00	441349.42

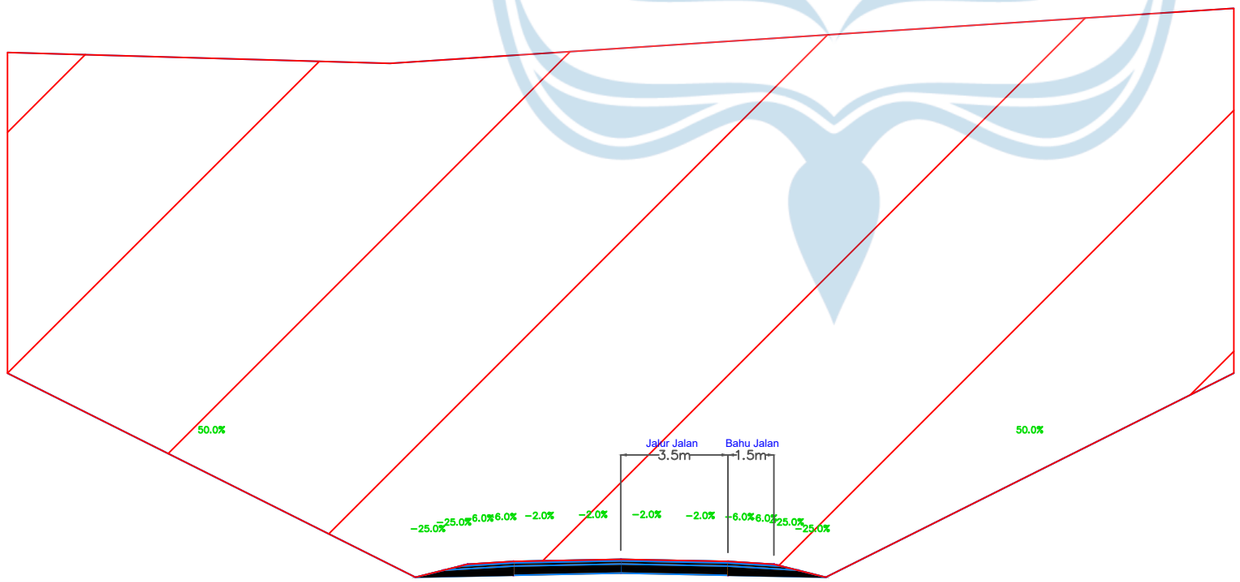
Total Volume at Station 5+100.00	
Cut Area	391.37
Fill Area	0.00
Cut Vol	14118.90
Fill Vol	0.00
Cum Cut Vol	565615.17
Cum Fill Vol	441349.42
Net Vol	124265.74

Tanah Asli

Galian

Timbunan

STA : 5 + 150,00



Material(s) at Station 5+150.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	602.85	24855.62	590470.79
Ground Fill	0.00	0.00	441349.42

Total Volume at Station 5+150.00	
Cut Area	602.85
Fill Area	0.00
Cut Vol	24855.62
Fill Vol	0.00
Cum Cut Vol	590470.79
Cum Fill Vol	441349.42
Net Vol	149121.36

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

Stanislaus Jivanta Danitza (190217591)
Adelia Sherlly Quinones (200218232)
Tsabita Qotrunnada (200218303)

Diperiksa Oleh :

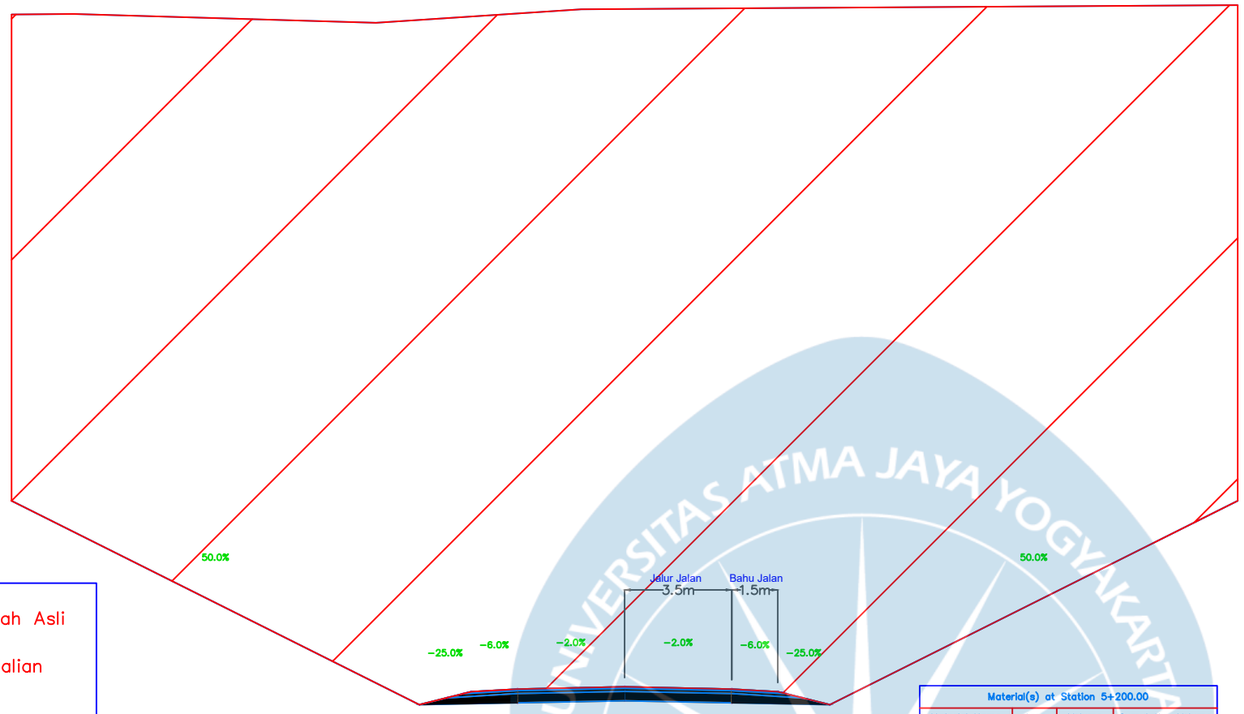
Alan Mikha Wijaya

Disetujui Oleh :

Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 5 + 200,00



Material(s) at Station 5+200.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	809.42	35306.85	625777.64
Ground Fill	0.00	0.00	441349.42

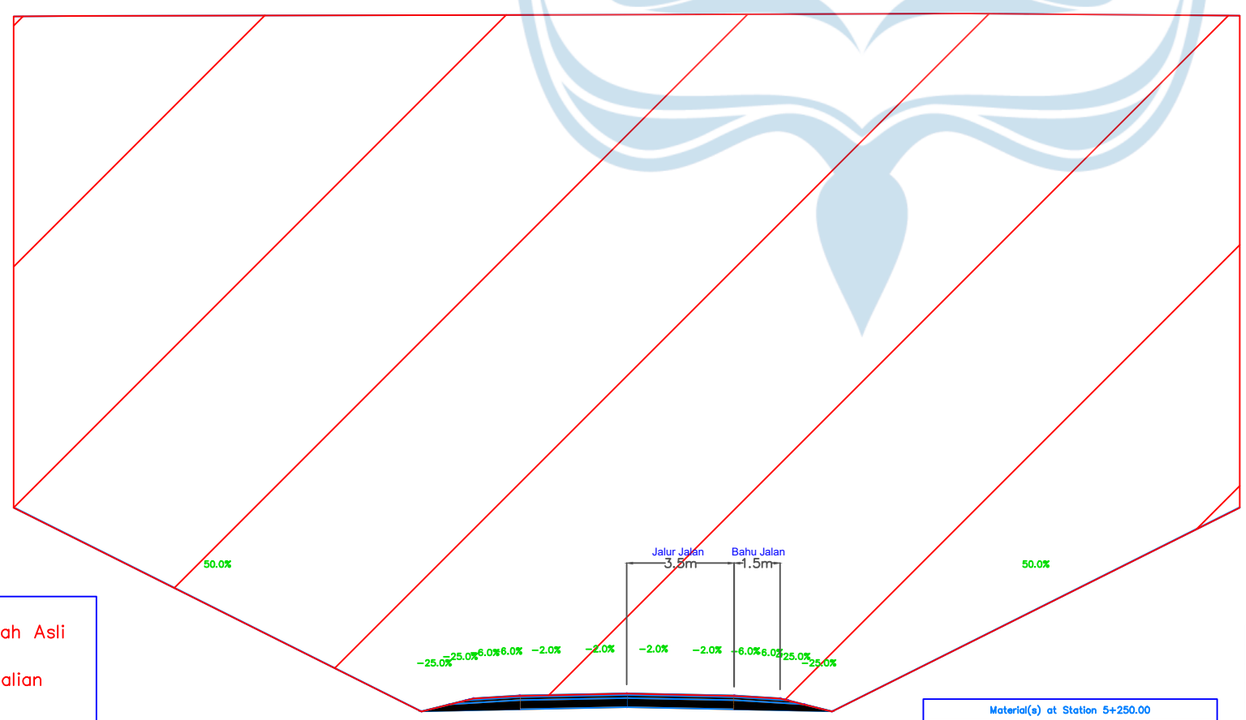
Total Volume at Station 5+200.00	
Cut Area	809.42
Fill Area	0.00
Cut Vol	35306.85
Fill Vol	0.00
Cum Cut Vol	625777.64
Cum Fill Vol	441349.42
Net Vol	184428.22

Tanah Asli

Galian

Timbunan

STA : 5 + 250,00



Material(s) at Station 5+250.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	814.44	40596.61	666374.25
Ground Fill	0.00	0.00	441349.42

Total Volume at Station 5+250.00	
Cut Area	814.44
Fill Area	0.00
Cut Vol	40596.61
Fill Vol	0.00
Cum Cut Vol	666374.25
Cum Fill Vol	441349.42
Net Vol	225024.83

Tanah Asli

Galian

Timbunan

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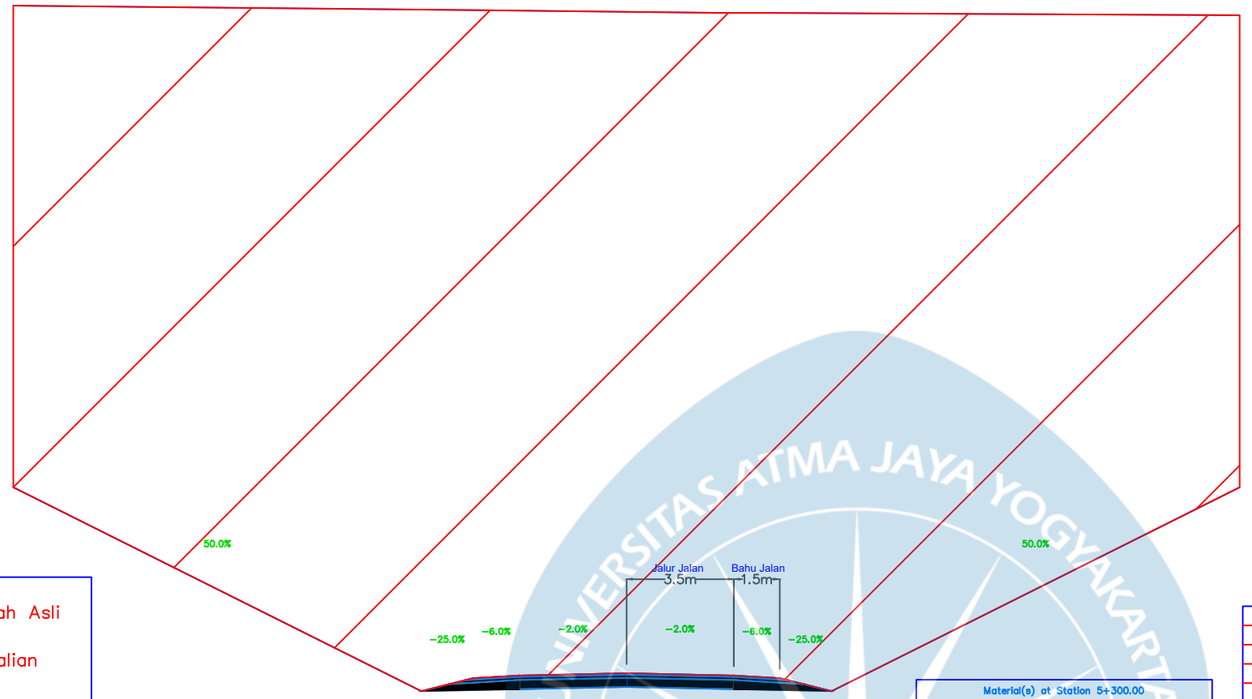
SKALA : 1:1000

STA : 5 + 300,00



Material(s) at Station 5+300.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	792.49	40173.30	706547.55
Ground Fill	0.00	0.00	441349.42

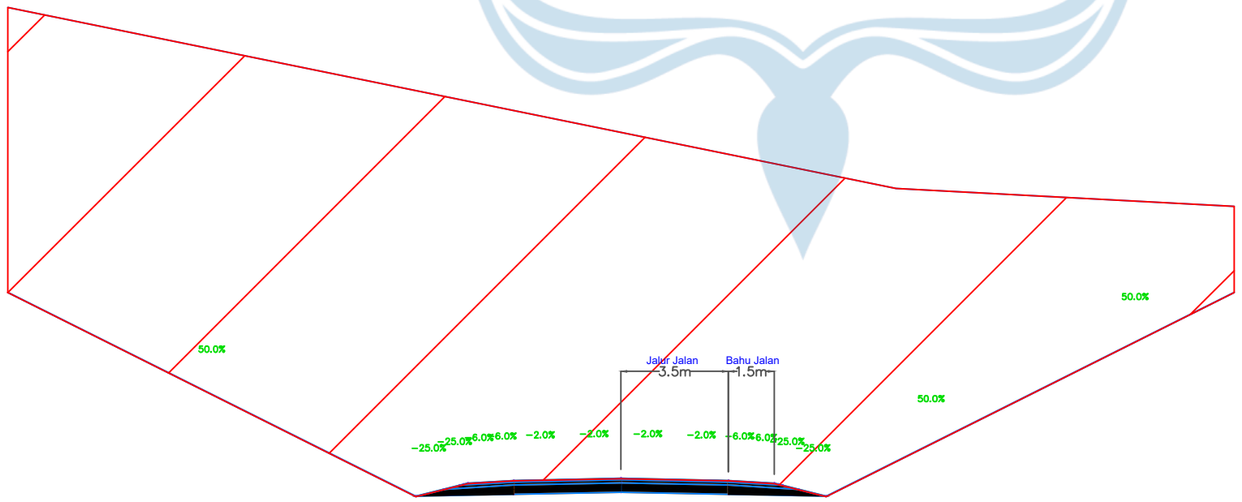
Total Volume at Station 5+300.00	
Cut Area	792.49
Fill Area	0.00
Cut Vol	40173.30
Fill Vol	0.00
Cum Cut Vol	706547.55
Cum Fill Vol	441349.42
Net Vol	265198.13

Tanah Asli

Galian

Timbunan

STA : 5 + 350,00



Material(s) at Station 5+350.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	389.76	29556.26	736103.81
Ground Fill	0.00	0.00	441349.42

Total Volume at Station 5+350.00	
Cut Area	389.76
Fill Area	0.00
Cut Vol	29556.26
Fill Vol	0.00
Cum Cut Vol	736103.81
Cum Fill Vol	441349.42
Net Vol	294754.39

Tanah Asli

Galian

Timbunan

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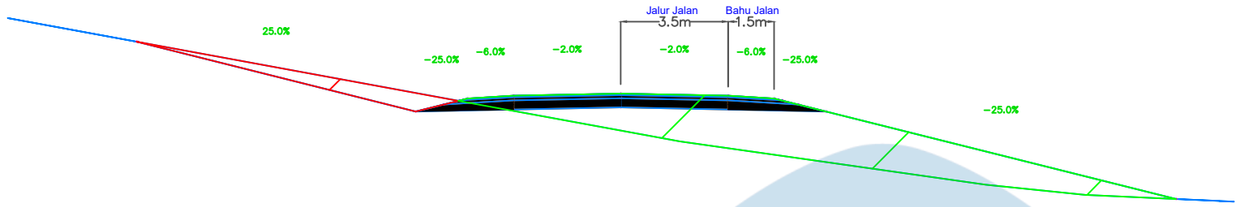
SKALA : 1:1000

STA : 5 + 400,00



Material(s) at Station 5+400.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	3.18	9823.51	745927.33
Ground Fill	24.99	624.66	441974.08

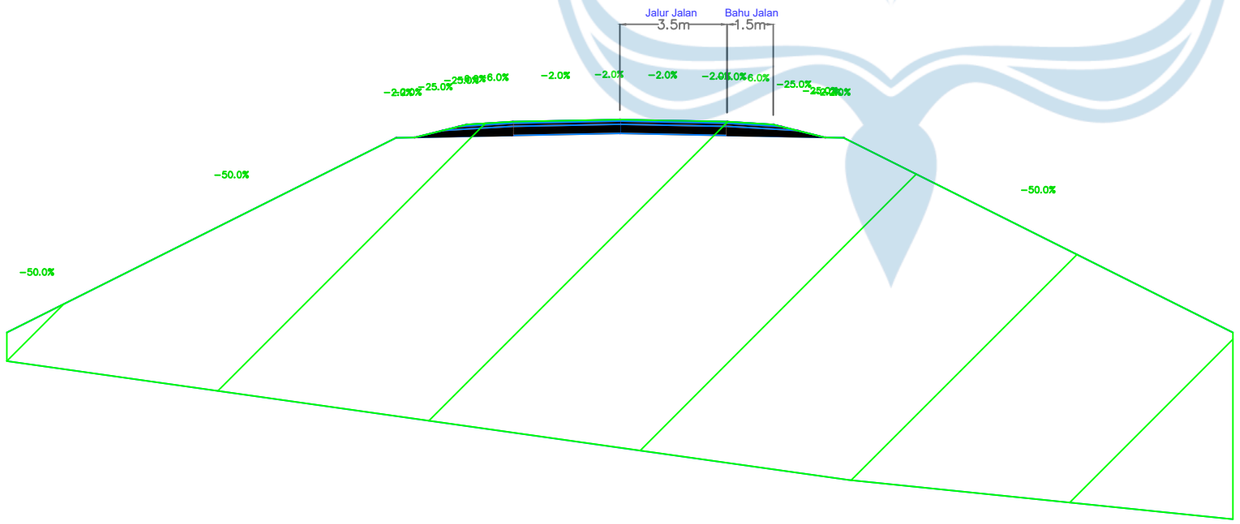
Total Volume at Station 5+400.00	
Cut Area	3.18
Fill Area	24.99
Cut Vol	9823.51
Fill Vol	624.66
Cum Cut Vol	745927.33
Cum Fill Vol	441974.08
Net Vol	303953.25

Tanah Asli

Galian

Timbunan

STA : 5 + 450,00



Material(s) at Station 5+450.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	79.45	746006.78
Ground Fill	326.55	8788.33	450762.41

Total Volume at Station 5+450.00	
Cut Area	0.00
Fill Area	326.55
Cut Vol	79.45
Fill Vol	8788.33
Cum Cut Vol	746006.78
Cum Fill Vol	450762.41
Net Vol	295244.37

Tanah Asli

Galian

Timbunan

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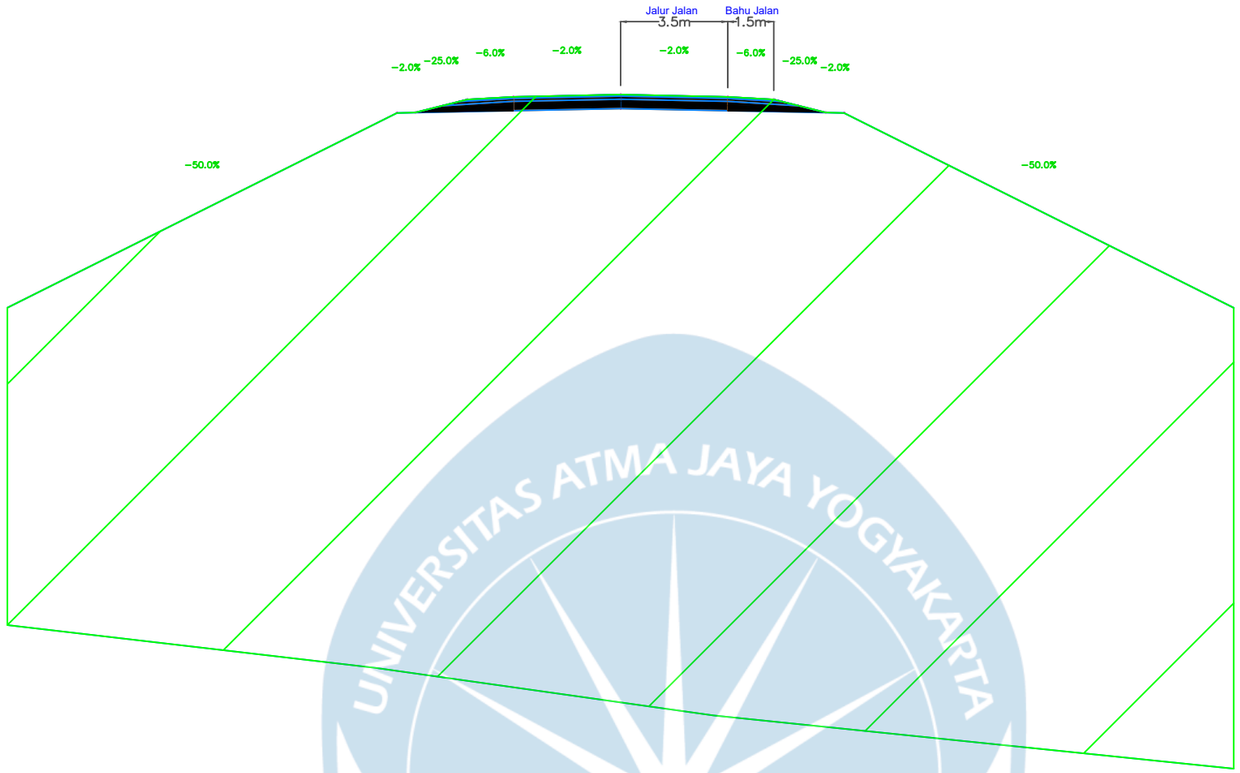
SKALA : 1:1000

STA : 5 + 500,00

Total Volume at Station 5+500.00	
Cut Area	0.00
Fill Area	690.49
Cut Vol	0.00
Fill Vol	25425.83
Cum Cut Vol	746006.78
Cum Fill Vol	476188.24
Net Vol	269818.54

Material(s) at Station 5+500.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	746006.78
Ground Fill	690.49	25425.83	476188.24



Tanah Asli

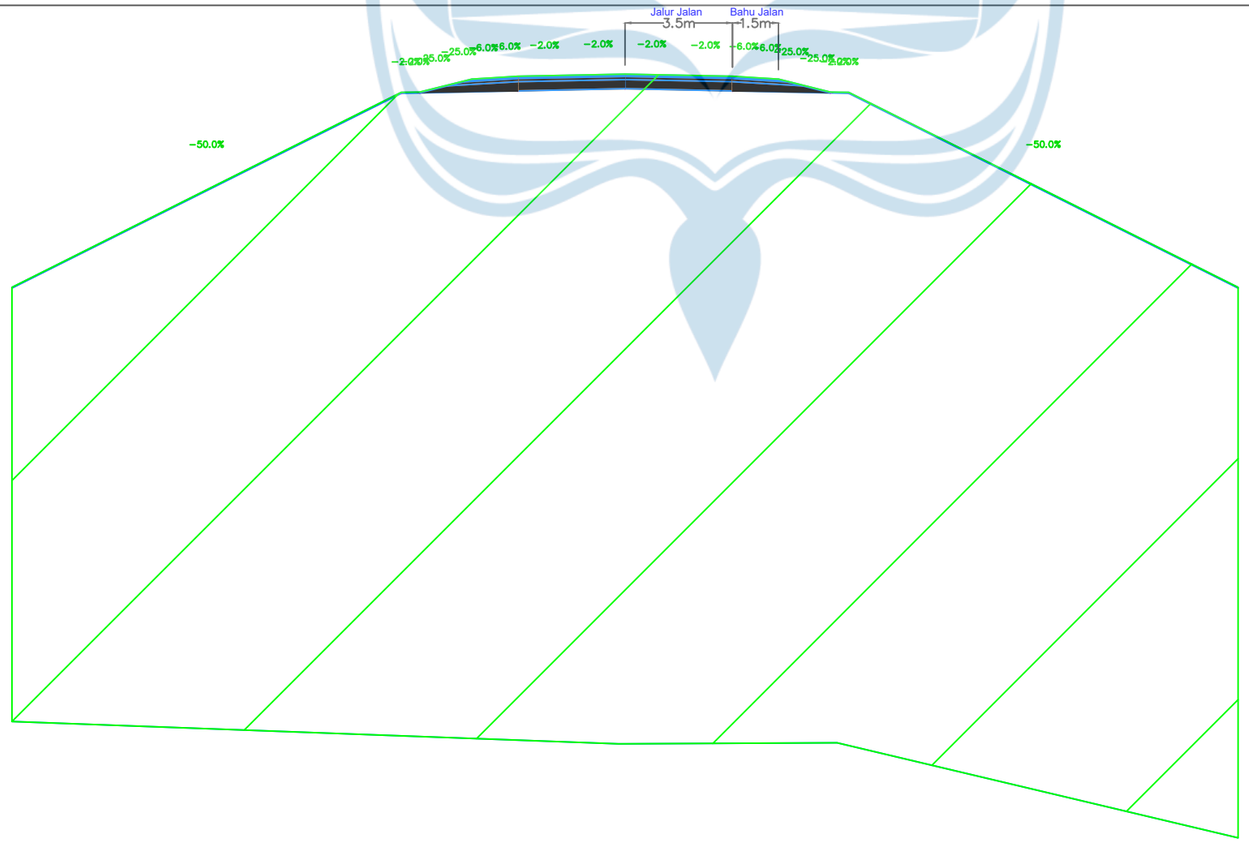
Galian

Timbunan

STA : 5 + 550,00

Total Volume at Station 5+550.00	
Cut Area	0.00
Fill Area	787.68
Cut Vol	0.00
Fill Vol	36954.13
Cum Cut Vol	746006.78
Cum Fill Vol	513142.37
Net Vol	232864.41

Material(s) at Station 5+550.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	746006.78
Ground Fill	787.68	36954.13	513142.37



Tanah Asli

Galian

Timbunan

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TAHUN AJARAN 2022/2023

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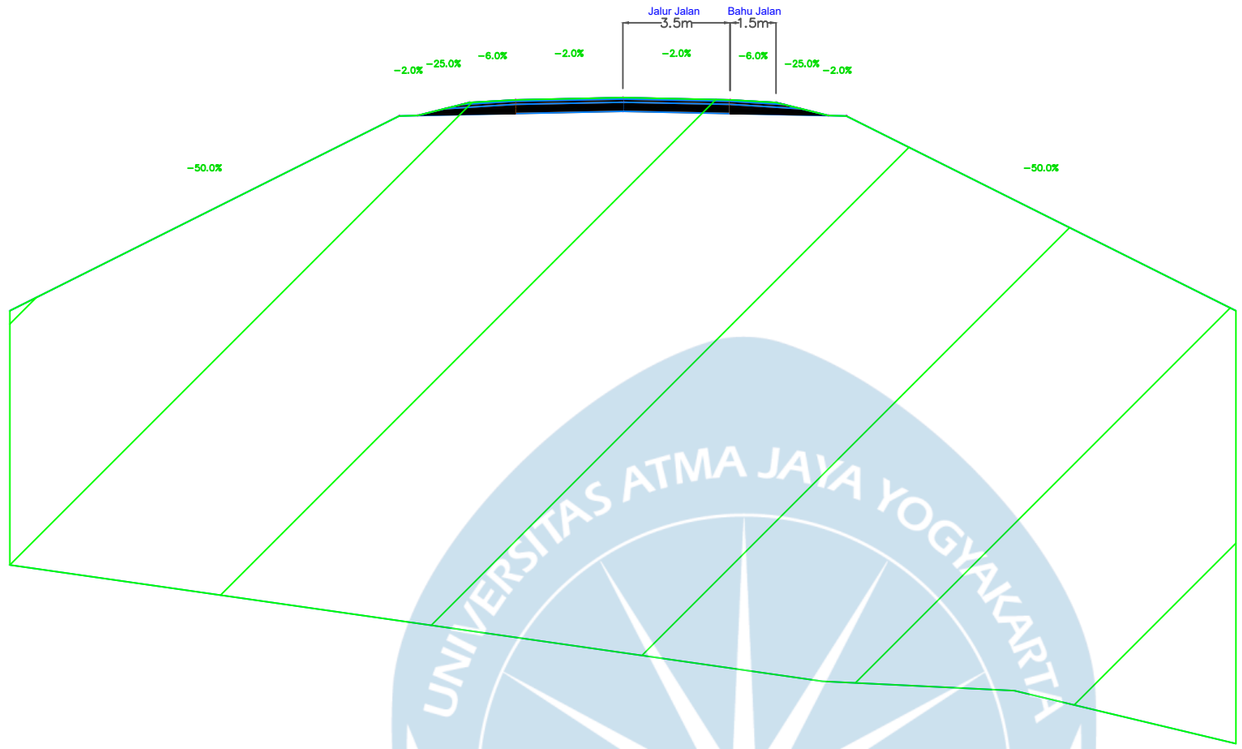
Disetujui Oleh :

Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 5 + 600,00



Total Volume at Station 5+600.00	
Cut Area	0.00
Fill Area	622.01
Cut Vol	0.00
Fill Vol	35242.14
Cum Cut Vol	746006.78
Cum Fill Vol	548384.50
Net Vol	197622.28

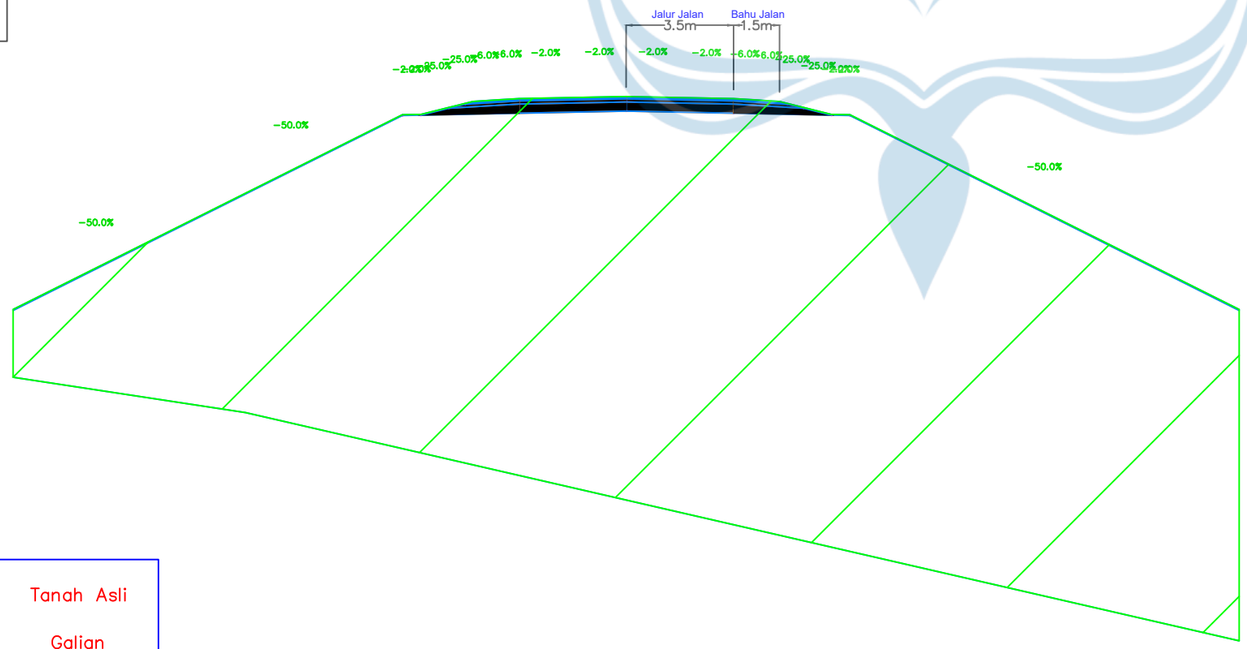
Material(s) at Station 5+600.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	746006.78
Ground Fill	622.01	35242.14	548384.50

Tanah Asli

Galian

Timbunan

STA : 5 + 650,00



Material(s) at Station 5+650.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	746006.78
Ground Fill	430.22	26305.63	574690.13

Total Volume at Station 5+650.00	
Cut Area	0.00
Fill Area	430.22
Cut Vol	0.00
Fill Vol	26305.63
Cum Cut Vol	746006.78
Cum Fill Vol	574690.13
Net Vol	171316.65

Tanah Asli

Galian

Timbunan

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Disetujui Oleh :

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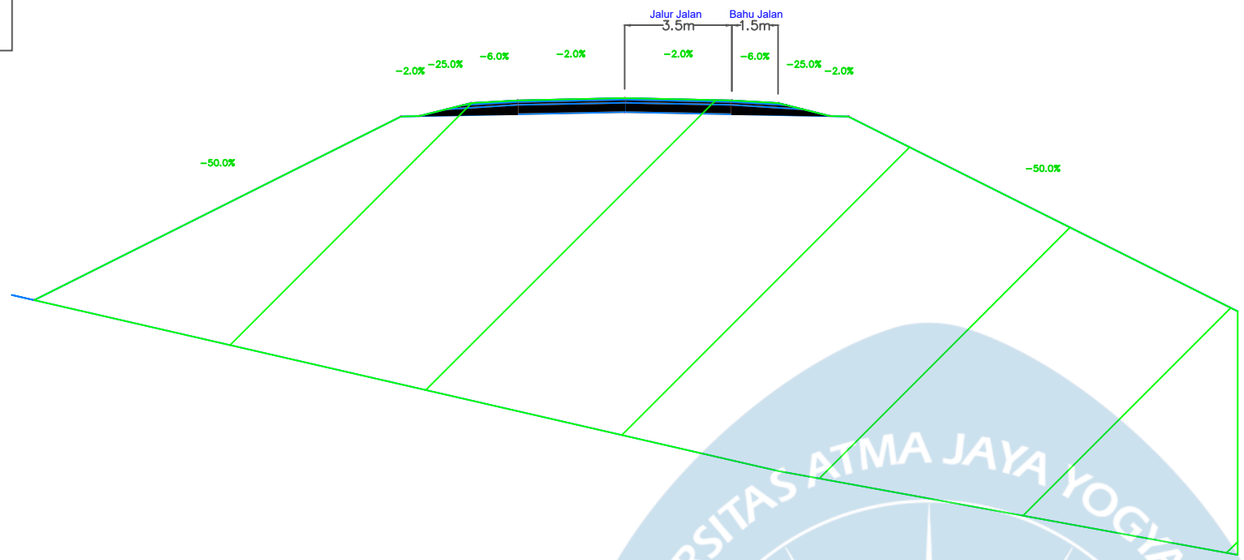
SKALA : 1:1000

STA : 5 + 700,00



Material(s) at Station 5+700.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	746006.78
Ground Fill	336.68	19172.48	593862.61

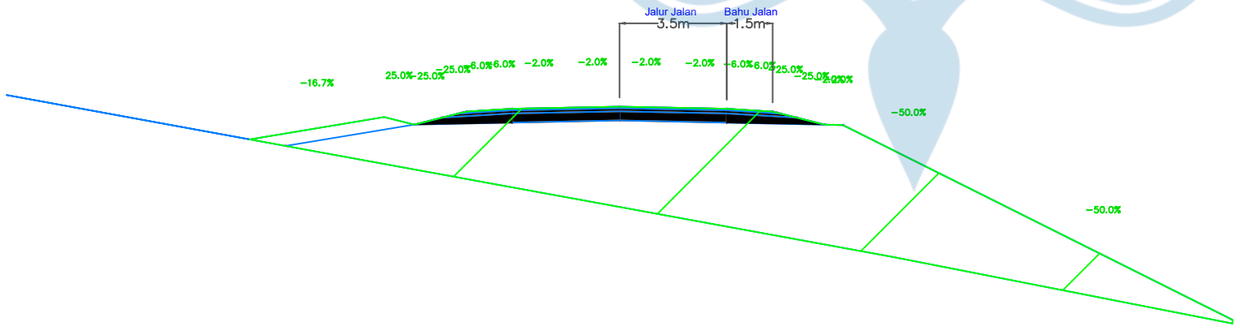
Total Volume at Station 5+700.00	
Cut Area	0.00
Fill Area	336.68
Cut Vol	0.00
Fill Vol	19172.48
Cum Cut Vol	746006.78
Cum Fill Vol	593862.61
Net Vol	152144.17

Tanah Asli

Galian

Timbunan

STA : 5 + 750,00



Material(s) at Station 5+750.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	0.00	0.00	746006.78
Ground Fill	75.20	10297.06	604159.67

Total Volume at Station 5+750.00	
Cut Area	0.00
Fill Area	75.20
Cut Vol	0.00
Fill Vol	10297.06
Cum Cut Vol	746006.78
Cum Fill Vol	604159.67
Net Vol	141847.11

Tanah Asli

Galian

Timbunan

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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Diperiksa Oleh :

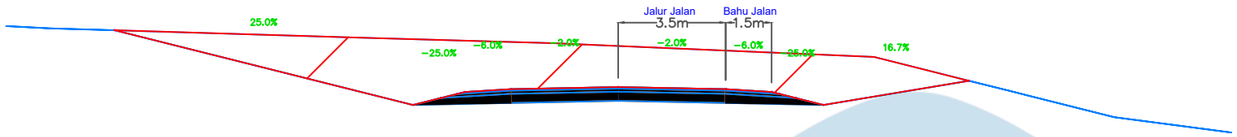
Alan Mikha Wijaya

Disetujui Oleh :

Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:1000

STA : 5 + 800,00



Material(s) at Station 5+800.00			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	34.54	863.48	746870.26
Ground Fill	0.00	1880.04	606039.71

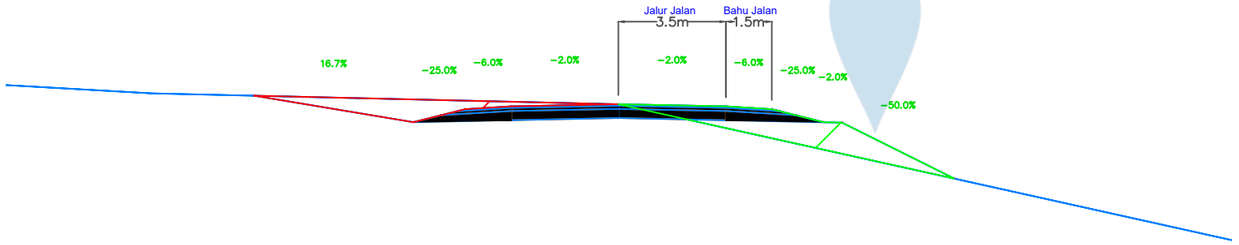
Total Volume at Station 5+800.00	
Cut Area	34.54
Fill Area	0.00
Cut Vol	863.48
Fill Vol	1880.04
Cum Cut Vol	746870.26
Cum Fill Vol	606039.71
Net Vol	140830.55

Tanah Asli

Galian

Timbunan

STA : 5 + 850,00



Material(s) at Station 5+830.52			
Material Name	Area	Volume	Cumulative Volume
Ground Removed	3.38	578.59	747448.85
Ground Fill	6.47	98.73	606138.44

Total Volume at Station 5+830.52	
Cut Area	3.38
Fill Area	6.47
Cut Vol	578.59
Fill Vol	98.73
Cum Cut Vol	747448.85
Cum Fill Vol	606138.44
Net Vol	141310.41

Tanah Asli

Galian

Timbunan

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Disetujui Oleh :

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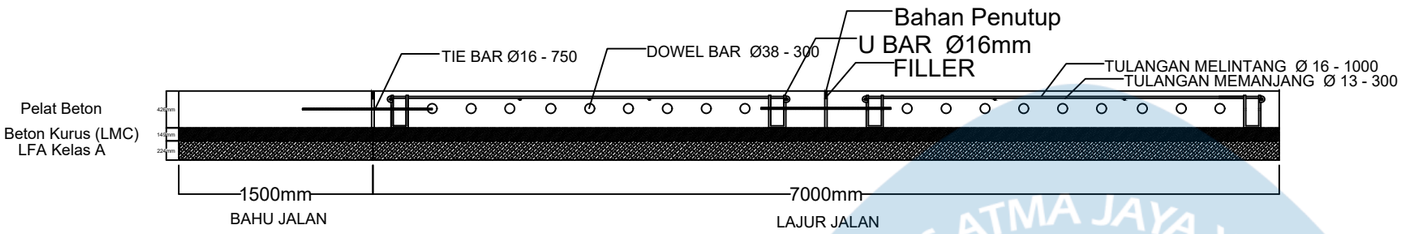
SKALA : 1:1000

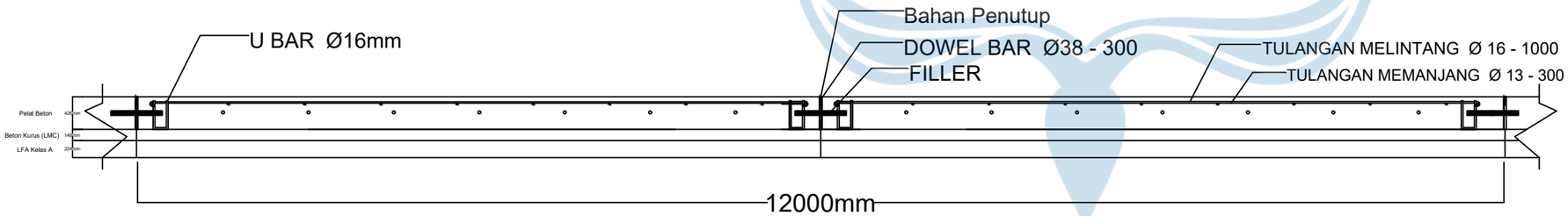
Lampiran 6

DETAIL PERKERASAN

DESAIN PERKERASAN KAKU
Potongan Memanjang



DESAIN PERKERASAN KAKU
Potongan Melintang



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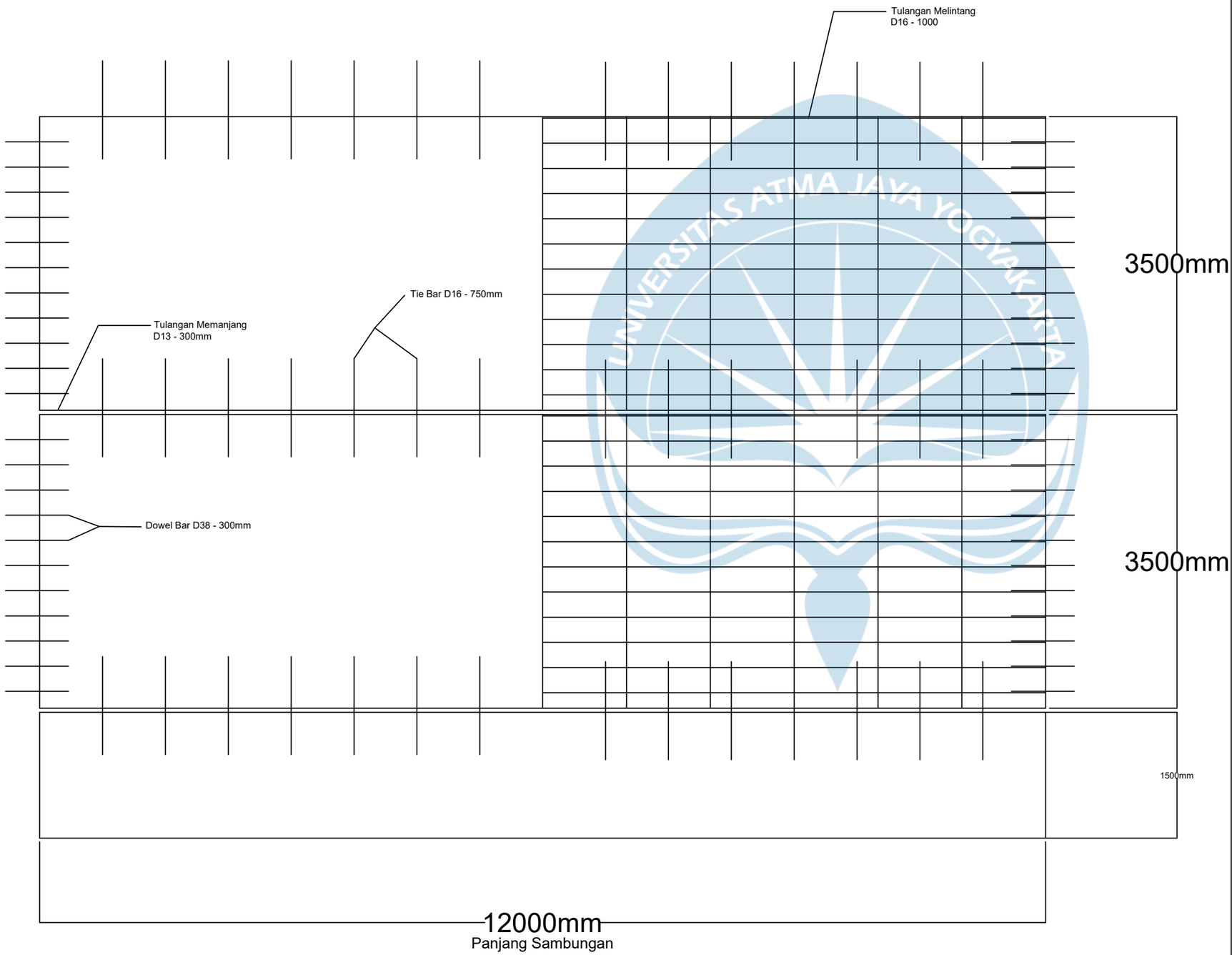
Skala	1:00



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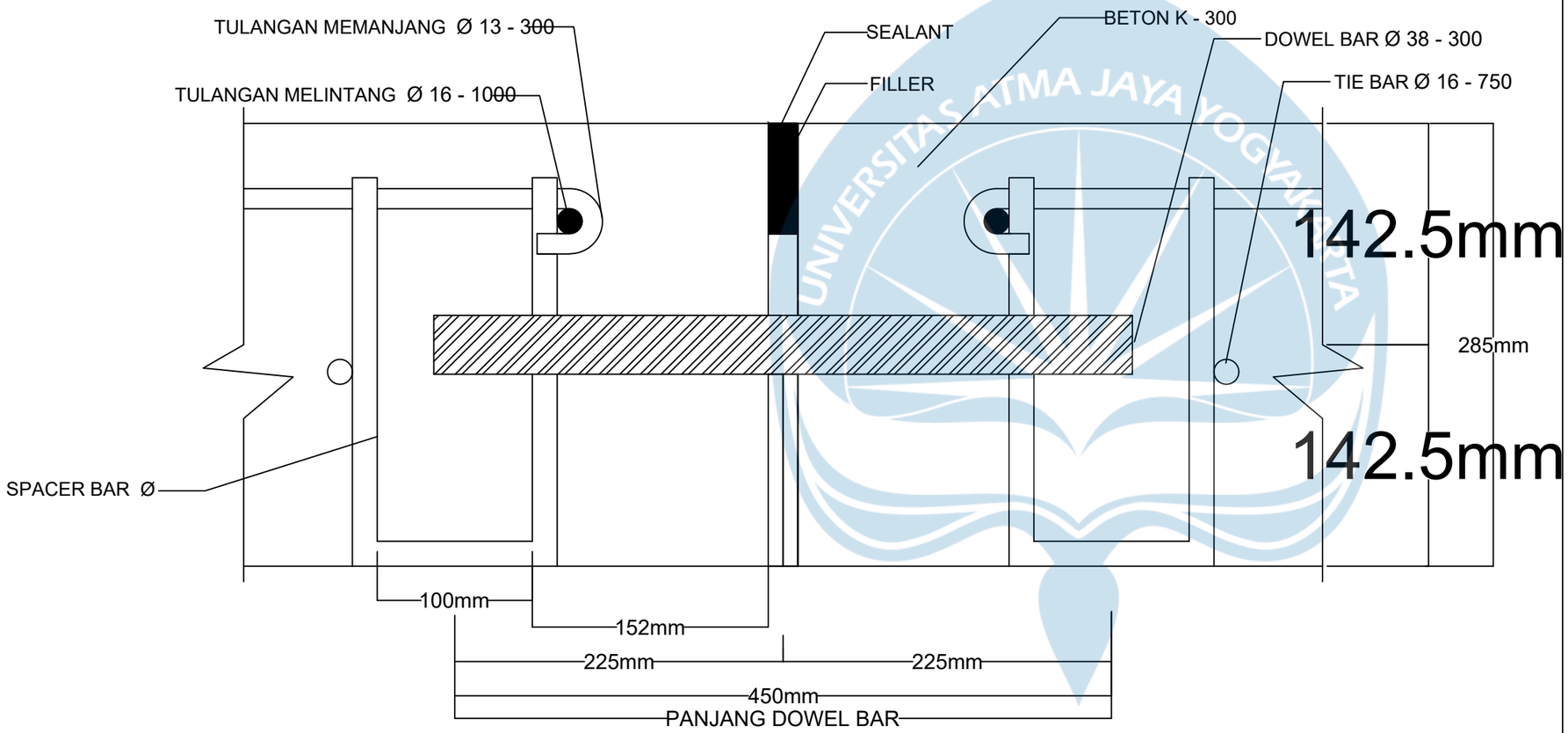
Disetujui Oleh:

Dr.Ir.Dwijoko Ansusanto,M.T.

Skala	1:100

DETAIL DOWEL BAR



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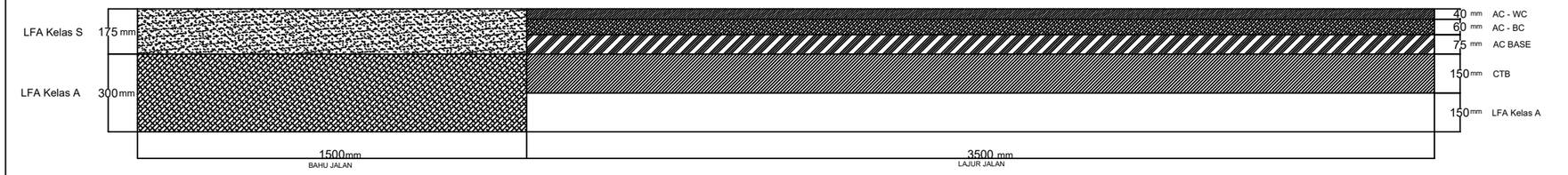
Disetujui Oleh:

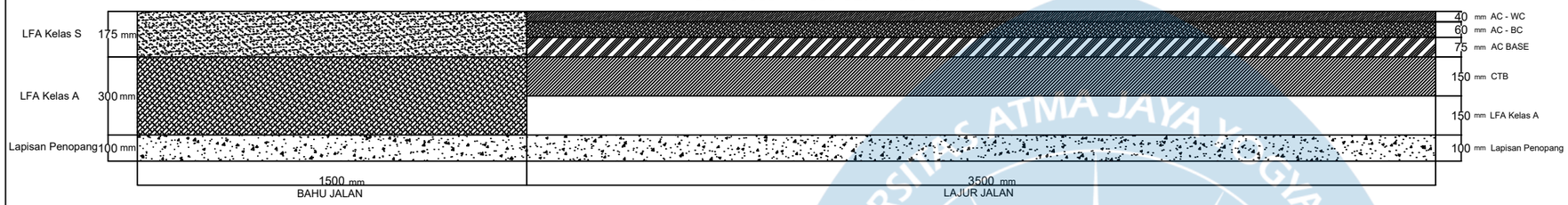
Dr.Ir.Dwijoko Ansusanto,M.T.

Skala	1:100

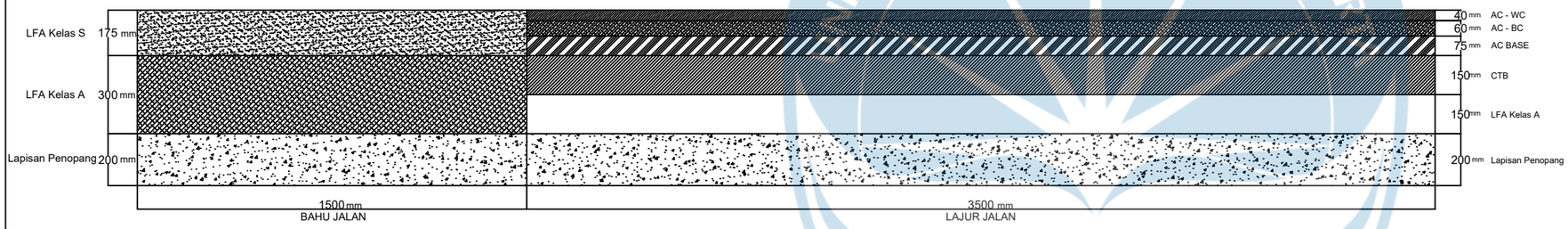
DESAIN PERKERASAN LENTUR
STA 0+000 - 0+650 CBR = 5.16%



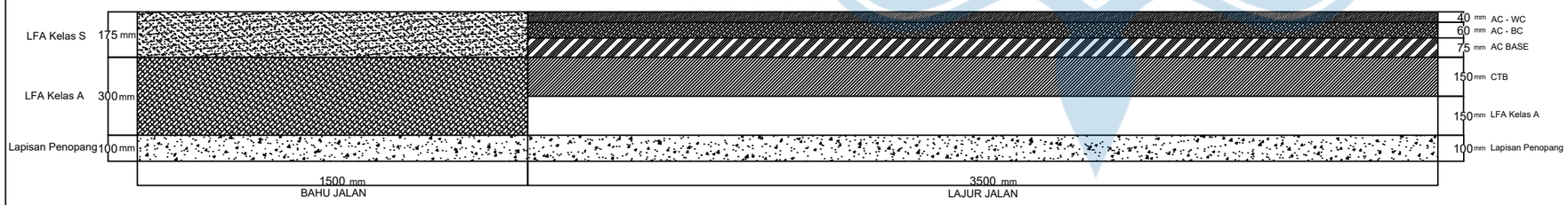
DESAIN PERKERASAN LENTUR
STA 0+650 - 1+350 CBR = 4.51%



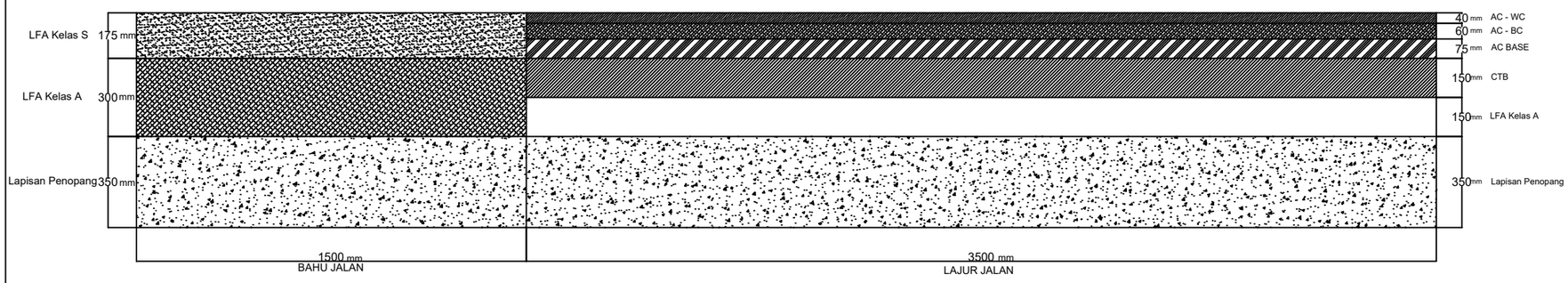
DESAIN PERKERASAN LENTUR
STA 1+350 - 2+050 CBR = 3.73%



DESAIN PERKERASAN LENTUR
STA 2+050 - 2+625 CBR = 4.31%



DESAIN PERKERASAN LENTUR
STA 2+625 - 3+050 CBR = 2.08%



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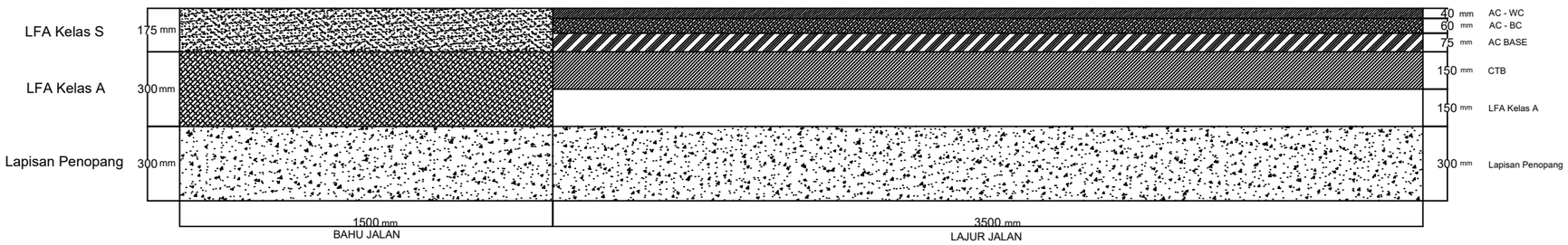
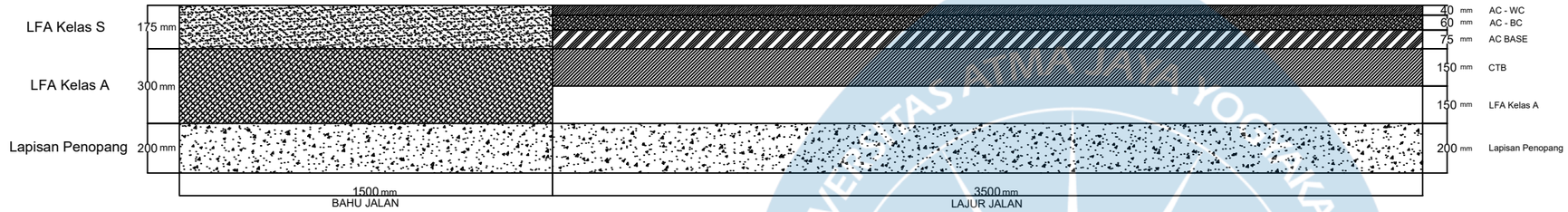
SKALA : 1:100

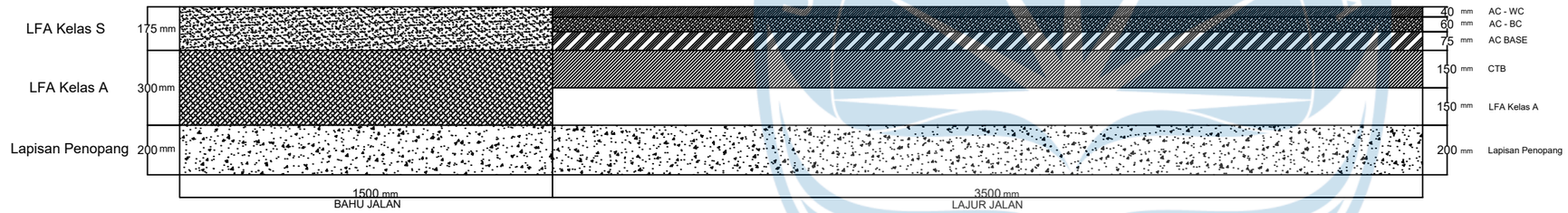
DESAIN PERKERASAN LENTUR
STA 3+050 - 3+750 CBR = 2.93%



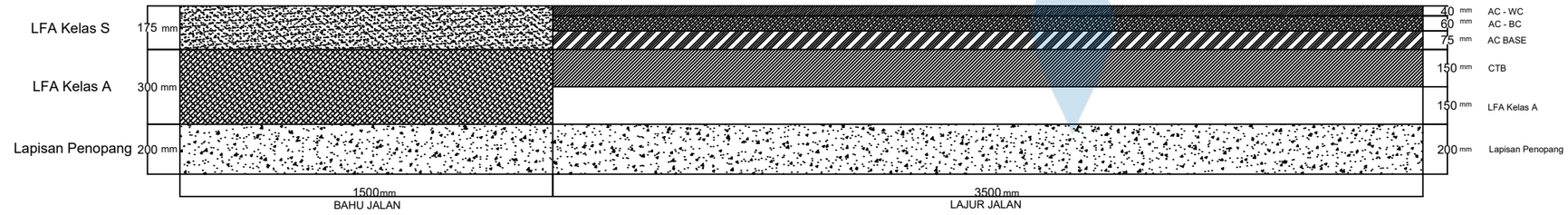
DESAIN PERKERASAN LENTUR
STA 3+750 - 4+425 CBR = 3.11%



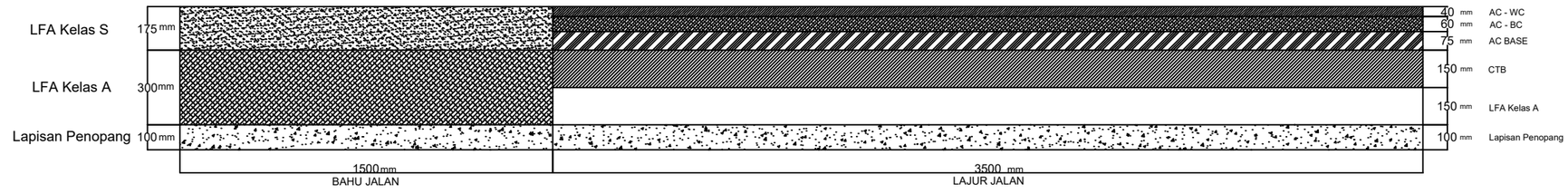
DESAIN PERKERASAN LENTUR
STA 4+425 - 4+775 CBR = 3.36%



DESAIN PERKERASAN LENTUR
STA 4+775 - 5+350 CBR = 3.93%



DESAIN PERKERASAN LENTUR
STA 5+350 - 5+830,52 CBR = 4.72%



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

Stanislaus Jivanta Danitza (190217591)
Adelia Sherlly Quinones (200218232)
Tsabita Qotrunnada (200218303)

Diperiksa Oleh :

Alan Mikha Wijaya

Disetujui Oleh :

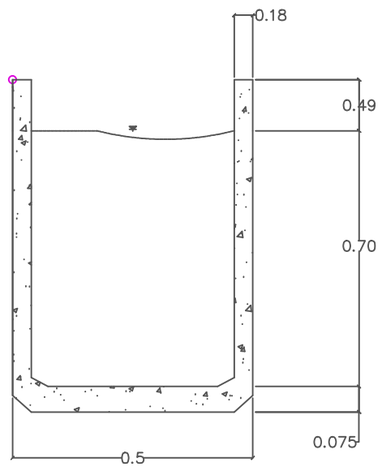
Dr. Ir. J. Dwijoko Ansusanto, M.T.

SKALA : 1:100

Lampiran 7

DETAIL SALURAN DRAINASE

Detail Saluran



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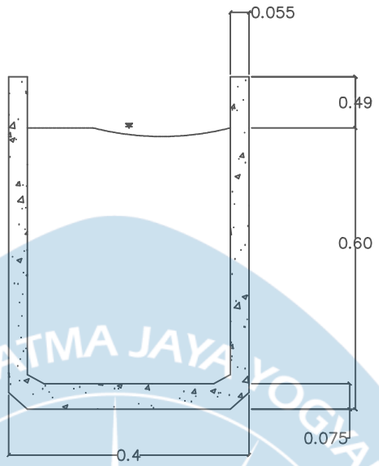

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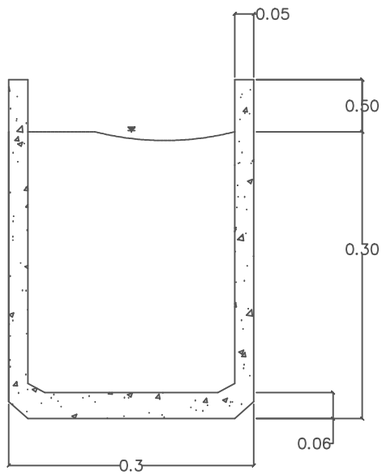

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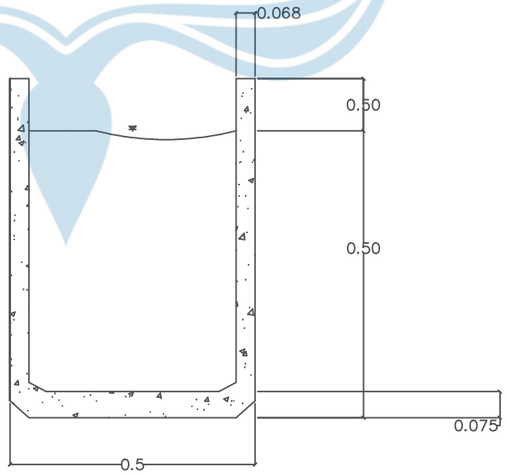

50x50x120

UNIVERSITAS ATMA JAYA YOGYAKARTA

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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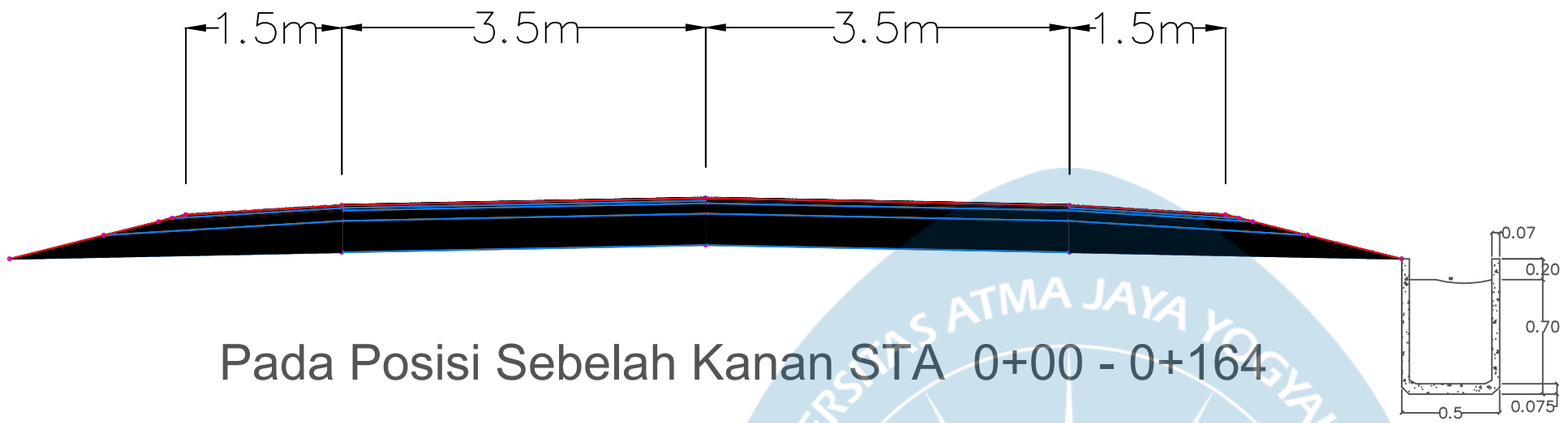
Disetujui Oleh :

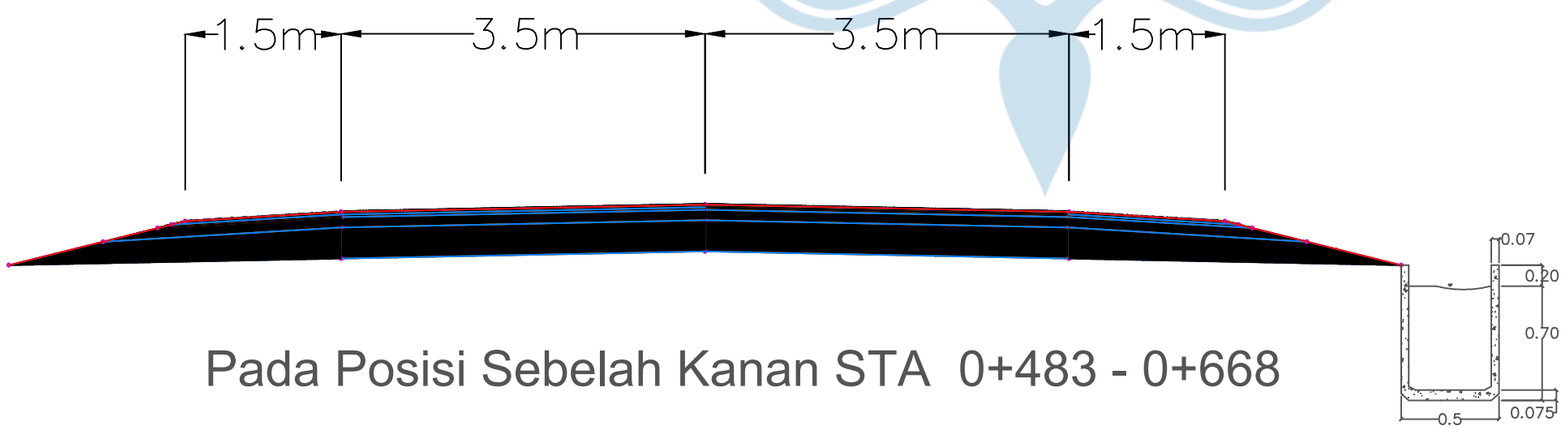
Dr.-Ing. Agustina Kiky Anggraini, S.T., M.Eng.

SKALA : 1:100

Potongan Melintang Drainase



Pada Posisi Sebelah Kanan STA 0+00 - 0+164



Pada Posisi Sebelah Kanan STA 0+483 - 0+668

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INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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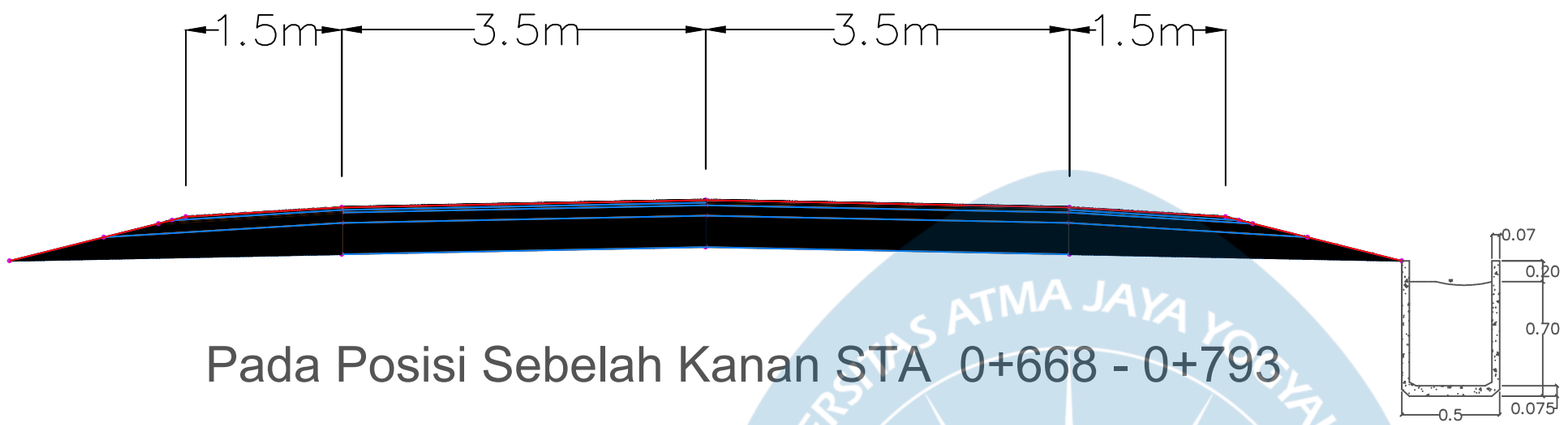
Disetujui Oleh :

Dr.-Ing. Agustina Kiky Anggraini, S.T., M.Eng.

SKALA : 1:100

Potongan Melintang Drainase



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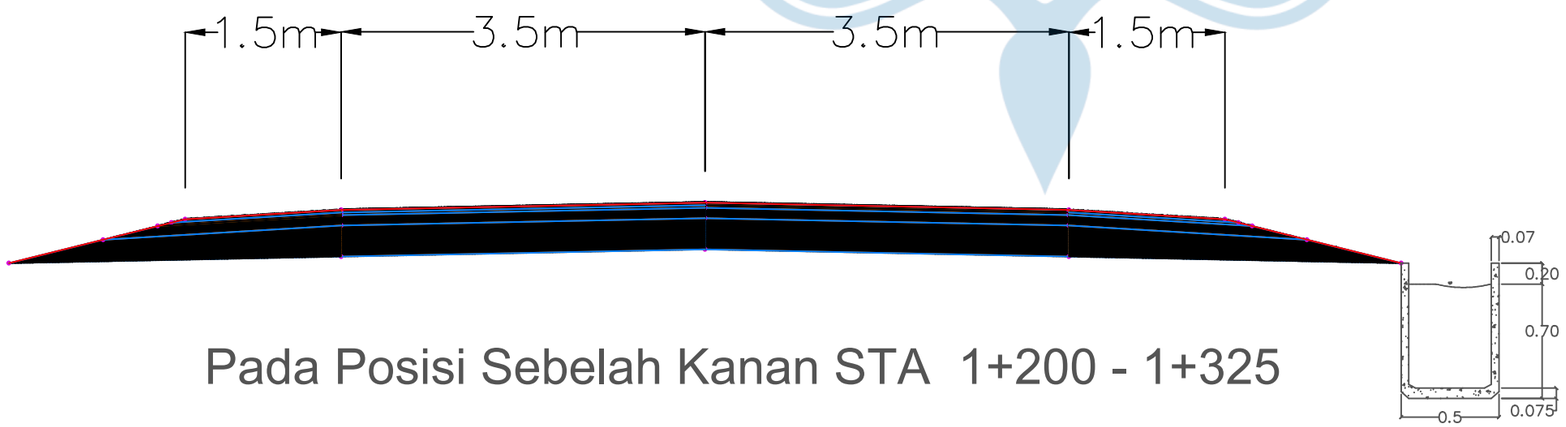

Pada Posisi Sebelah Kanan STA 1+200 - 1+325

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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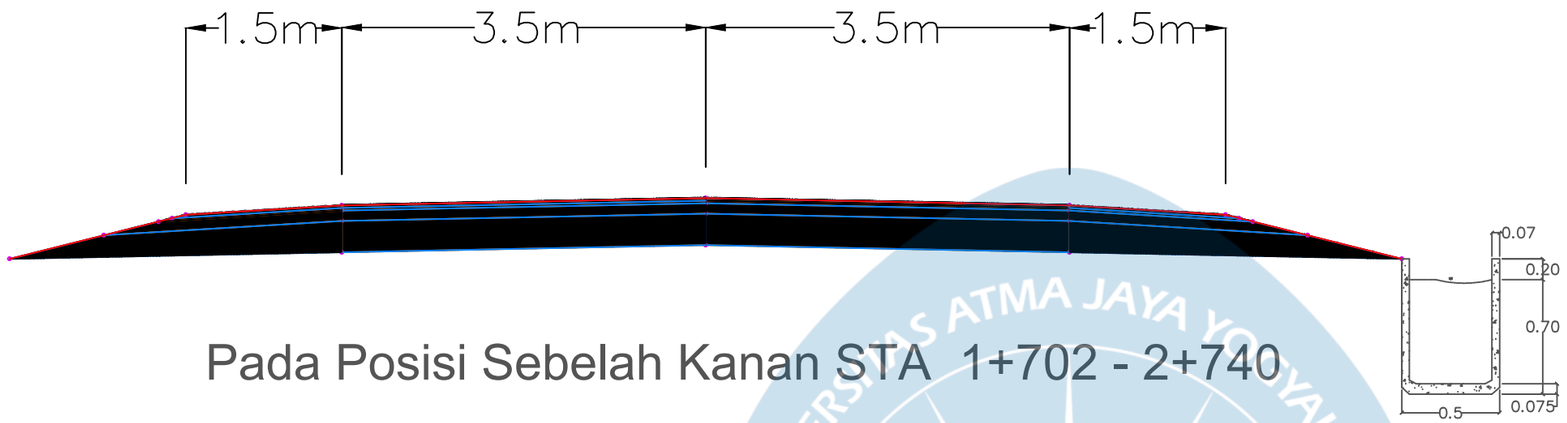
Disetujui Oleh :

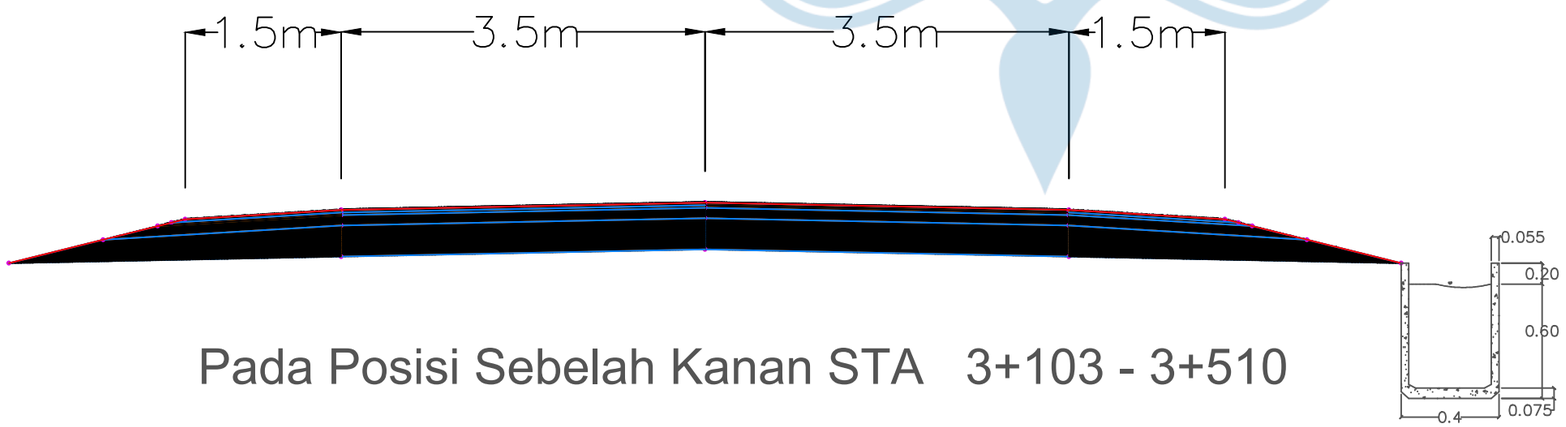
Dr.-Ing. Agustina Kiky Anggraini, S.T., M.Eng.

SKALA : 1:100

Potongan Melintang Drainase



Pada Posisi Sebelah Kanan STA 1+702 - 2+740



Pada Posisi Sebelah Kanan STA 3+103 - 3+510

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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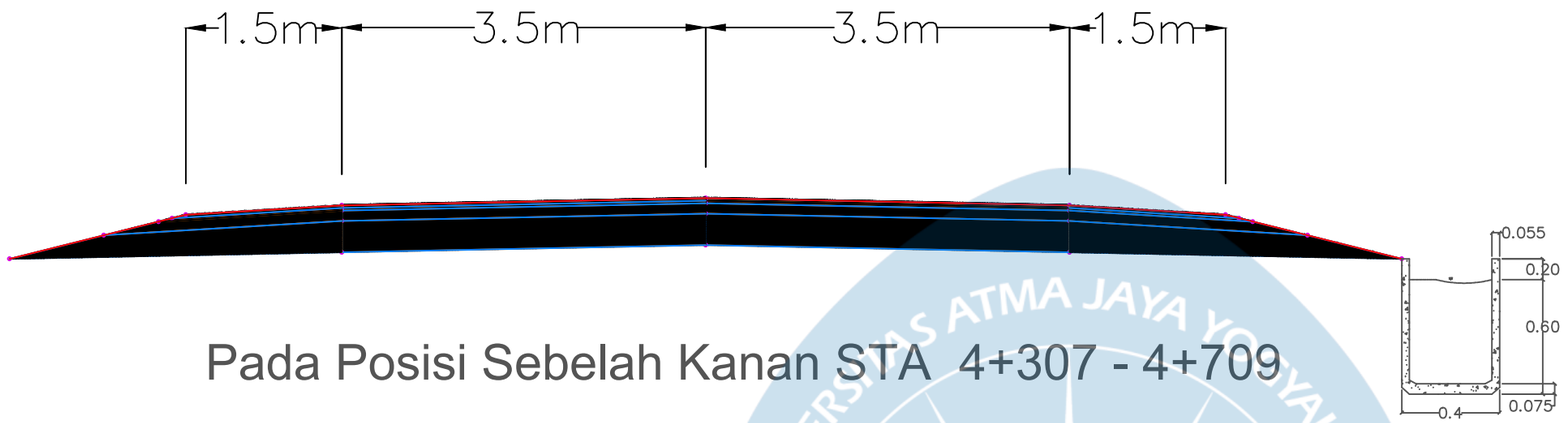
Disetujui Oleh :

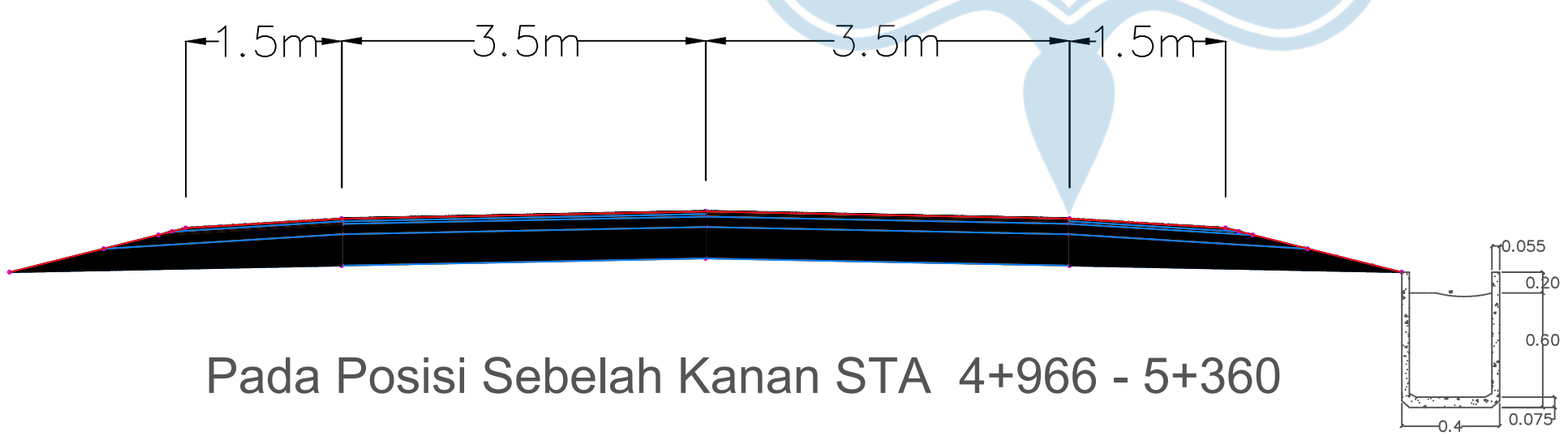
Dr.-Ing. Agustina Kiky Anggraini, S.T., M.Eng.

SKALA : 1:100

Potongan Melintang Drainase



Pada Posisi Sebelah Kanan STA 4+307 - 4+709



Pada Posisi Sebelah Kanan STA 4+966 - 5+360

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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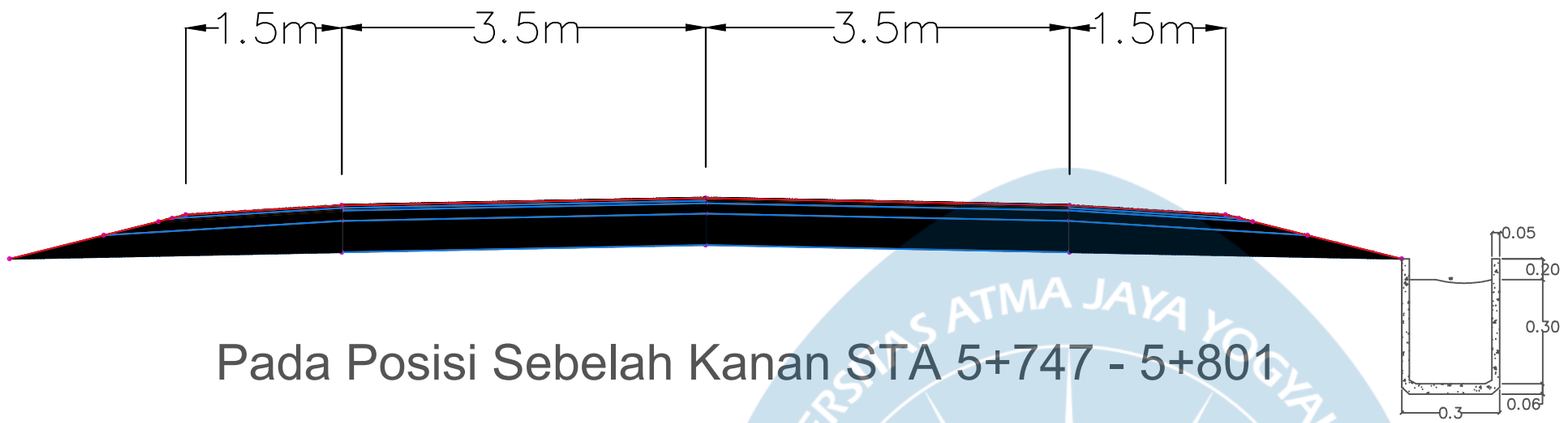
SKALA : 1:100

Potongan Melintang Drainase



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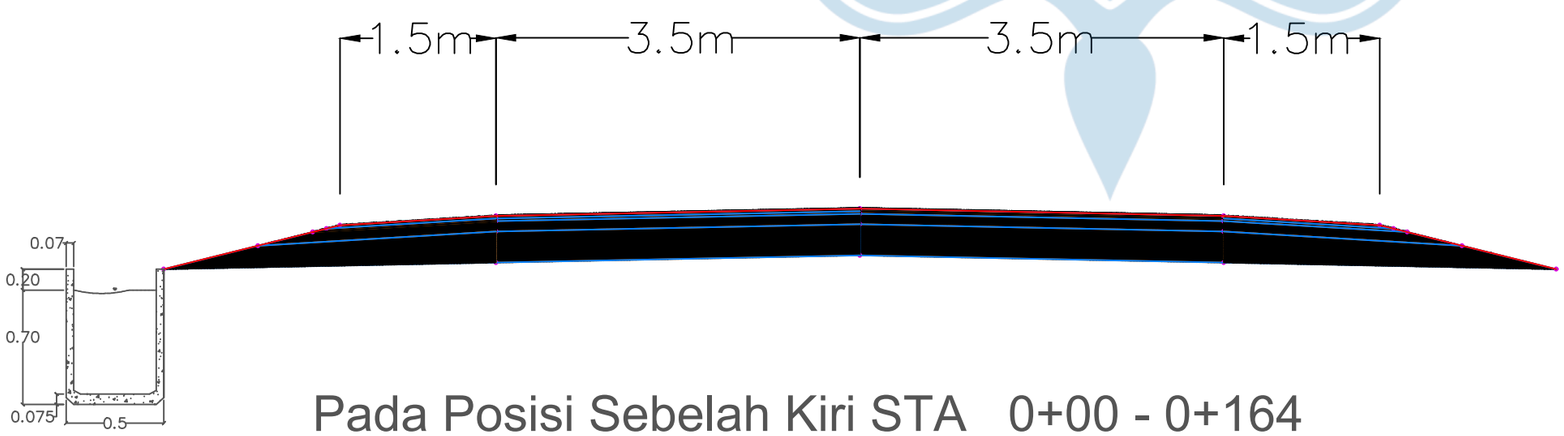

Pada Posisi Sebelah Kiri STA 0+00 - 0+164

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INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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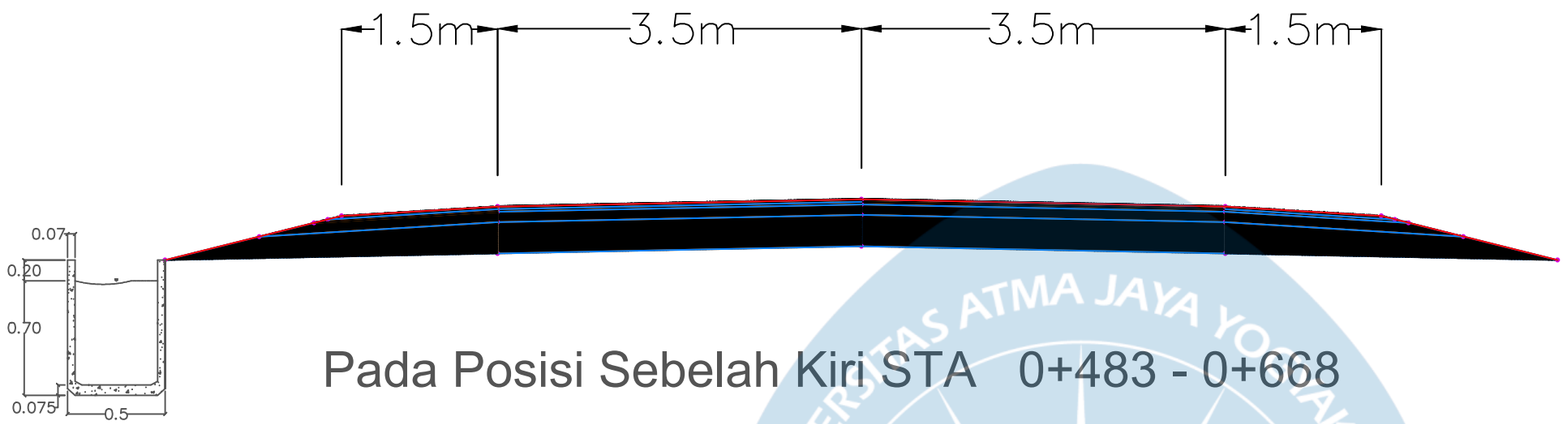
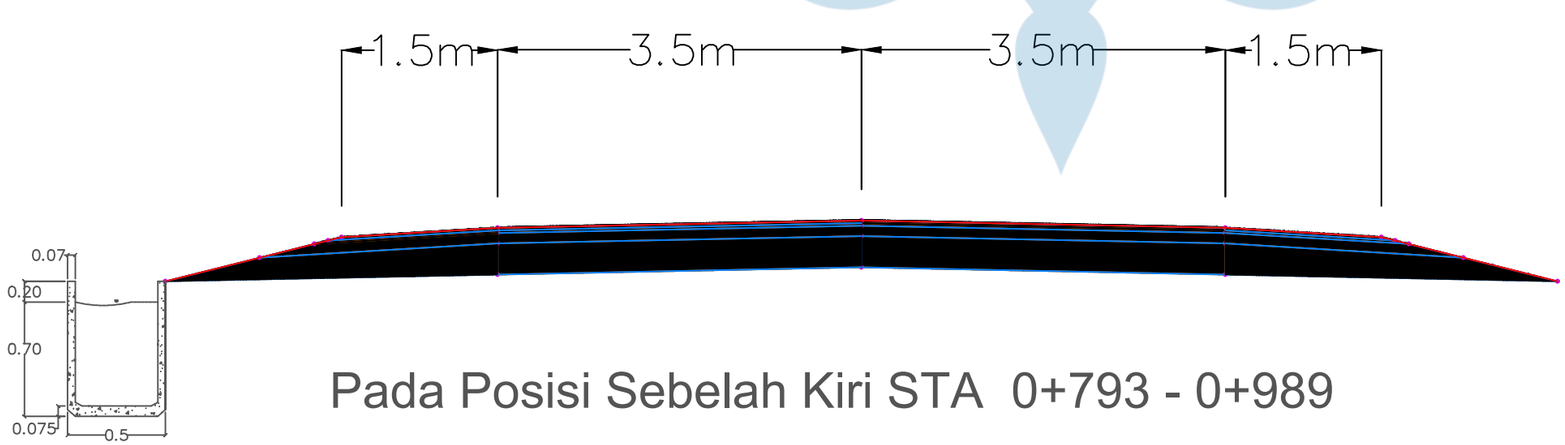
SKALA : 1:100

Potongan Melintang Drainase



Pada Posisi Sebelah Kiri STA 0+483 - 0+668



Pada Posisi Sebelah Kiri STA 0+793 - 0+989

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INFRASTRUKTUR JALAN
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TAHUN AJARAN 2022/2023

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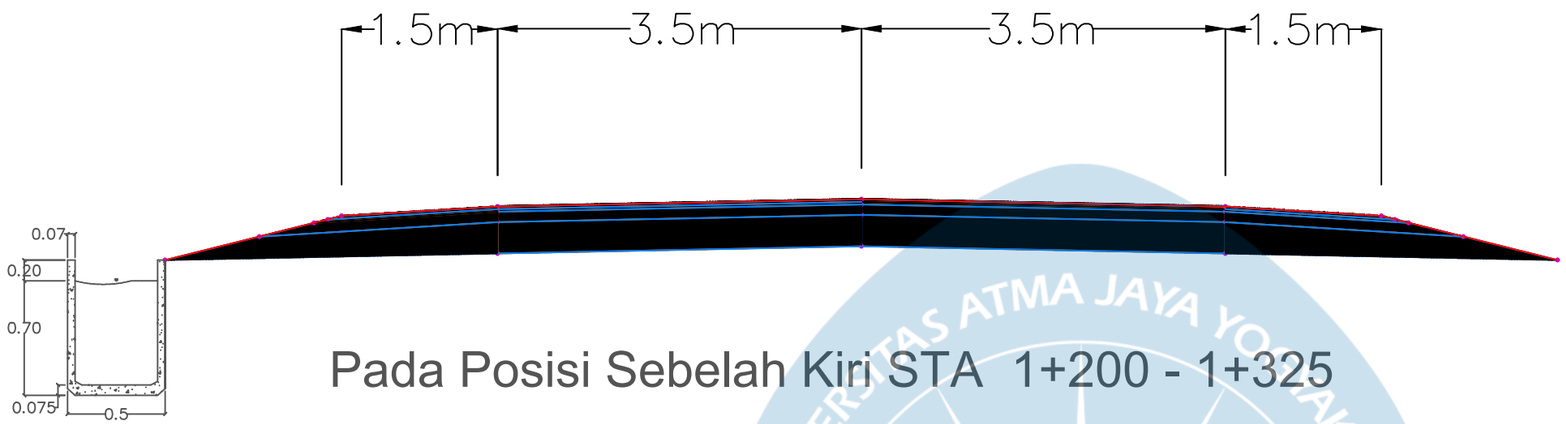
Disetujui Oleh :

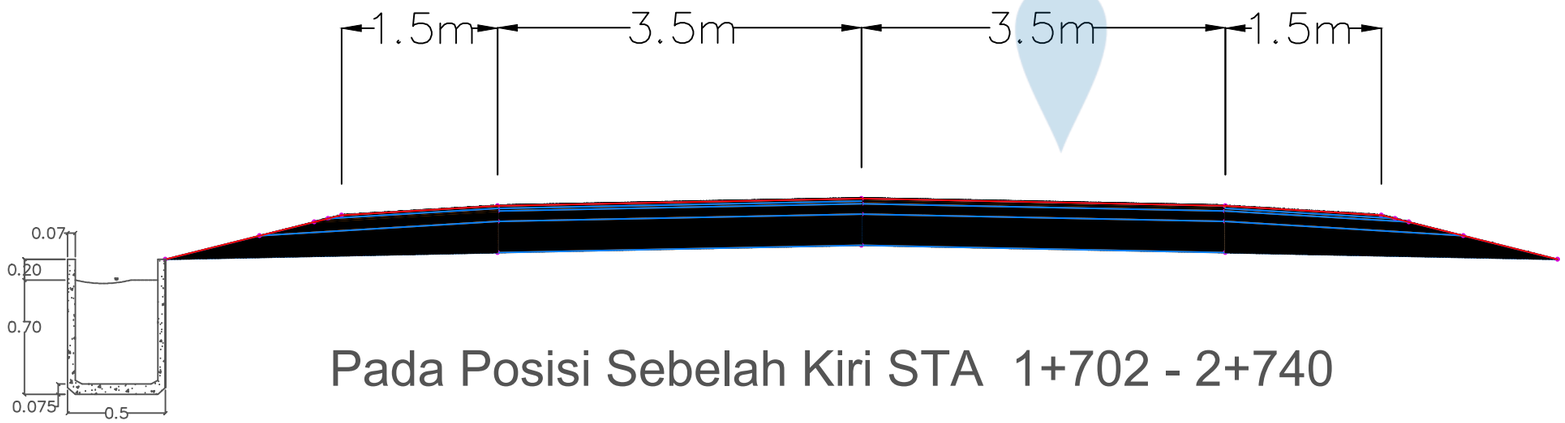
Dr.-Ing. Agustina Kiky Anggraini, S.T., M.Eng.

SKALA :	1:100

Potongan Melintang Drainase



Pada Posisi Sebelah Kiri STA 1+200 - 1+325



Pada Posisi Sebelah Kiri STA 1+702 - 2+740

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INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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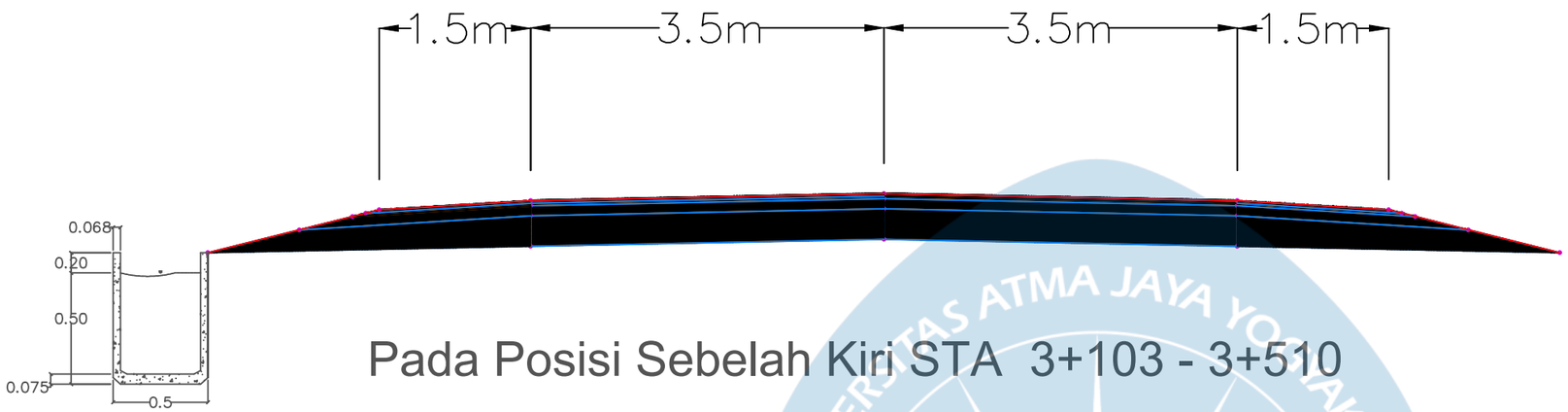
Disetujui Oleh :

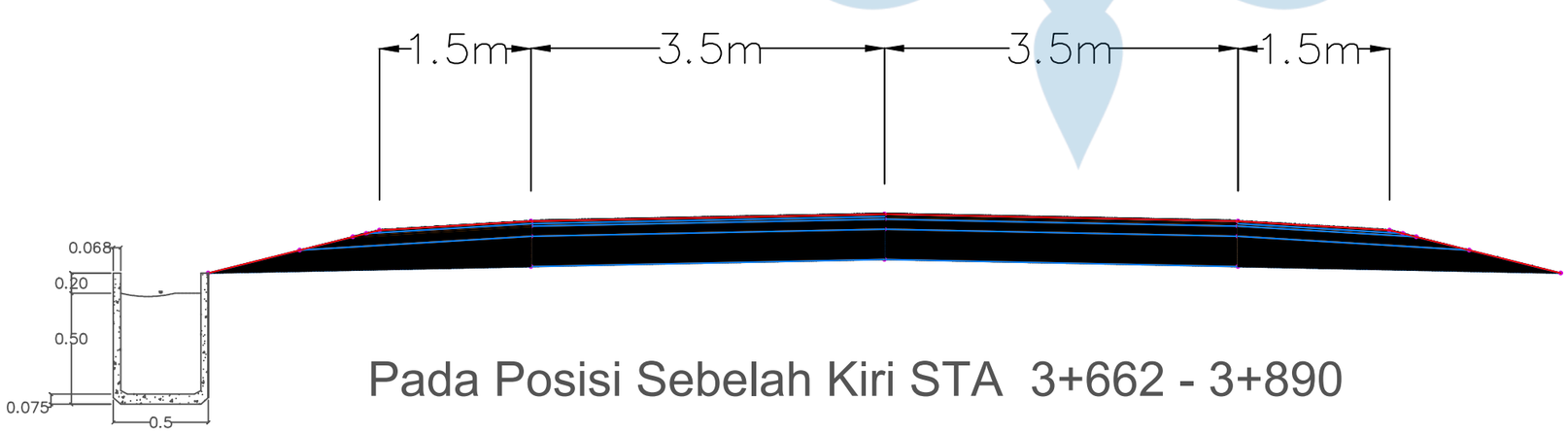
Dr.-Ing. Agustina Kiky Anggraini, S.T., M.Eng.

SKALA : 1:100

Potongan Melintang Drainase



Pada Posisi Sebelah Kiri STA 3+103 - 3+510



Pada Posisi Sebelah Kiri STA 3+662 - 3+890

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TAHUN AJARAN 2022/2023

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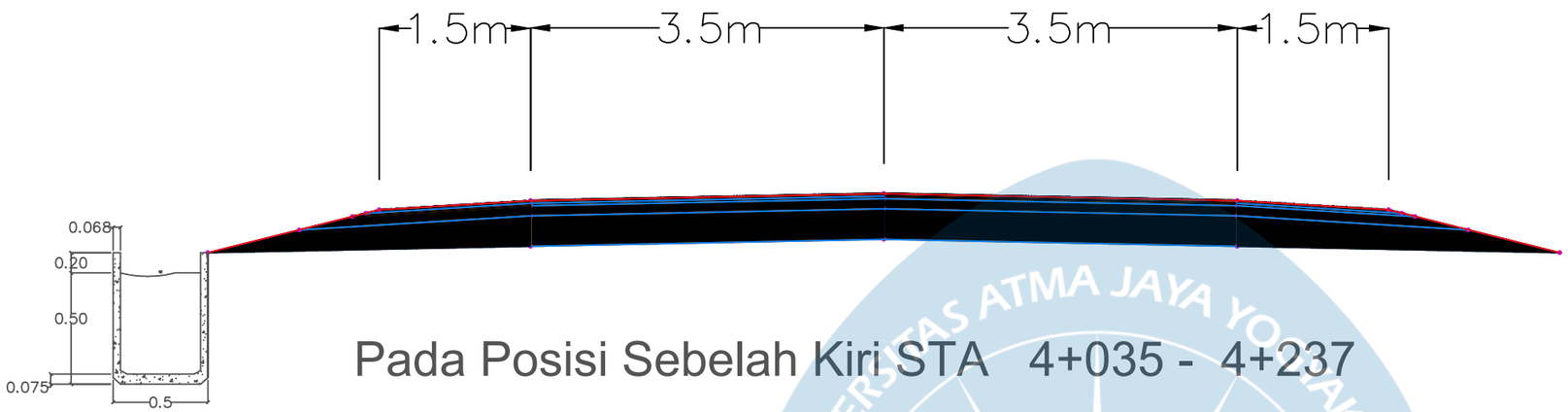
Disetujui Oleh :

Dr.-Ing. Agustina Kiky Anggraini, S.T., M.Eng.

SKALA :	1:100

Potongan Melintang Drainase



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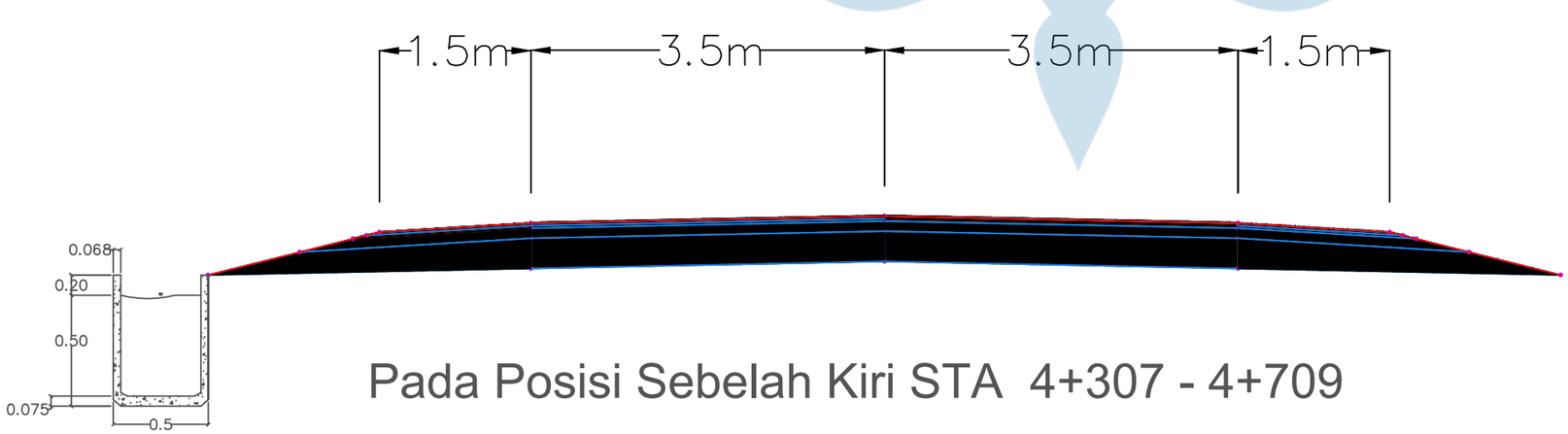

Pada Posisi Sebelah Kiri STA 4+307 - 4+709

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

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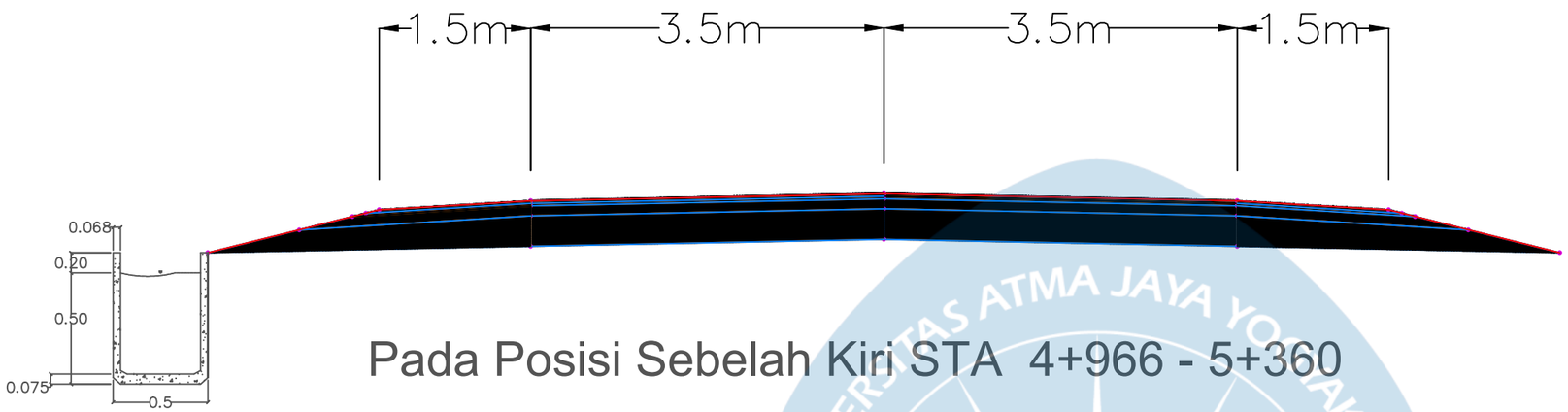
Disetujui Oleh :

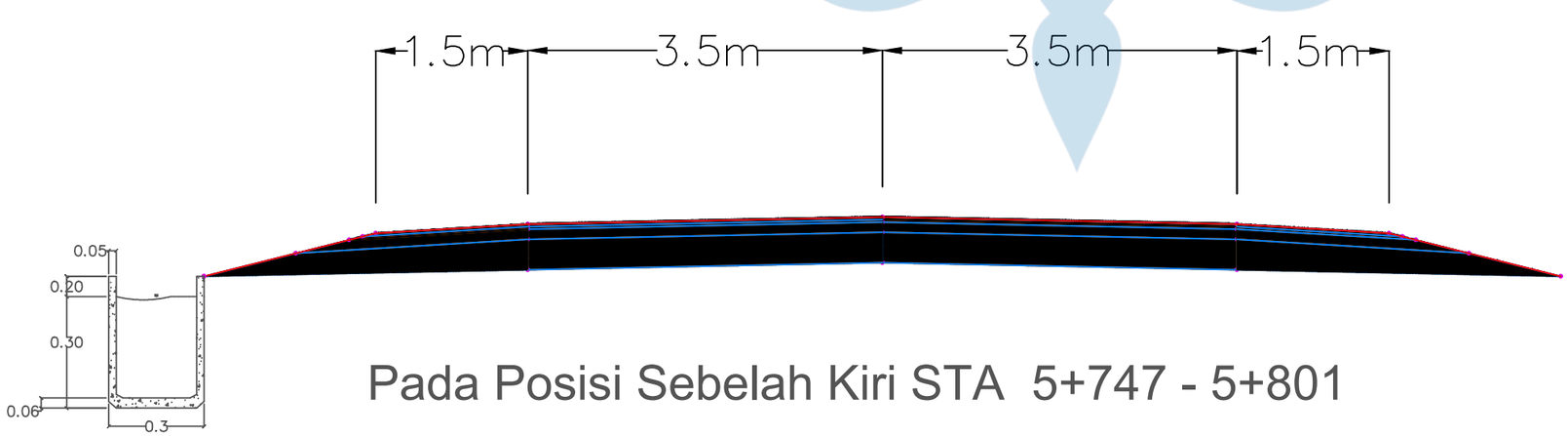
Dr.-Ing. Agustina Kiky Anggraini, S.T., M.Eng.

SKALA : 1:100

Potongan Melintang Drainase



Pada Posisi Sebelah Kiri STA 4+966 - 5+360



Pada Posisi Sebelah Kiri STA 5+747 - 5+801

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TAHUN AJARAN 2022/2023

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Disetujui Oleh :

Dr.-Ing. Agustina Kiky Anggraini, S.T., M.Eng.

SKALA : 1:100

Lampiran 8

DATA PENGUJIAN CPT & SPT

SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION	:	**DATE**	:
NUMBER OF CPT.	: 1	**WEATHER**	: Cerah
ELEVATION	: ±0,00 m dari muka jalan	**SURVEYOR**	:
G.WATER DEPTH	: -4,00 meter dari muka tanah	**PROJECT**	:

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0.00	0	0	0.00								
0.20	7	10	0.30	6	6	10.20	1	2	0.10	2	836
0.40	16	21	0.50	10	16	10.40	1	2	0.10	2	838
0.60	61	69	0.80	16	32	10.60	1	2	0.10	2	840
0.80	115	123	0.80	16	48	10.80	1	2	0.10	2	842
1.00	69	77	0.80	16	64	11.00	1	2	0.10	2	844
1.20	35	46	1.10	22	86	11.20	1	2	0.10	2	846
1.40	19	28	0.90	18	104	11.40	1	2	0.10	2	848
1.60	8	15	0.70	14	118	11.60	1	2	0.10	2	850
1.80	7	14	0.70	14	132	11.80	1	2	0.10	2	852
2.00	11	19	0.80	16	148	12.00	1	2	0.10	2	854
2.20	13	21	0.80	16	164	12.20	1	2	0.10	2	856
2.40	9	18	0.90	18	182	12.40	1	2	0.10	2	858
2.60	6	15	0.90	18	200	12.60	9	17	0.80	16	874
2.80	5	13	0.80	16	216	12.80	18	29	1.10	22	896
3.00	8	17	0.90	18	234	13.00	23	35	1.20	24	920
3.20	11	19	0.80	16	250	13.20	14	23	0.90	18	938
3.40	10	21	1.10	22	272	13.40	8	19	1.10	22	960
3.60	7	16	0.90	18	290	13.60	6	15	0.90	18	978
3.80	5	14	0.90	18	308	13.80	1	2	0.10	2	980
4.00	8	16	0.80	16	324	14.00	1	2	0.10	2	982
4.20	12	20	0.80	16	340	14.20	1	2	0.10	2	984
4.40	14	23	0.90	18	358	14.40	1	2	0.10	2	986
4.60	13	22	0.90	18	376	14.60	1	2	0.10	2	988
4.80	15	24	0.90	18	394	14.80	1	2	0.10	2	990
5.00	17	28	1.10	22	416	15.00	1	2	0.10	2	992
5.20	13	24	1.10	22	438	15.20	1	2	0.10	2	994
5.40	10	19	0.90	18	456	15.40	1	2	0.10	2	996
5.60	8	18	1.00	20	476	15.60	1	2	0.10	2	998
5.80	5	16	1.10	22	498	15.80	1	2	0.10	2	1000
6.00	7	19	1.20	24	522	16.00	1	2	0.10	2	1002
6.20	8	17	0.90	18	540	16.20	1	2	0.10	2	1004
6.40	11	21	1.00	20	560	16.40	7	16	0.90	18	1022
6.60	9	18	0.90	18	578	16.60	15	22	0.70	14	1036
6.80	21	32	1.10	22	600	16.80	24	35	1.10	22	1058
7.00	19	27	0.80	16	616	17.00	21	32	1.10	22	1080
7.20	14	25	1.10	22	638	17.20	14	25	1.10	22	1102
7.40	12	21	0.90	18	656	17.40	9	18	0.90	18	1120
7.60	15	24	0.90	18	674	17.60	5	13	0.80	16	1136
7.80	9	19	1.00	20	694	17.80	1	2	0.10	2	1138
8.00	7	18	1.10	22	716	18.00	1	2	0.10	2	1140
8.20	8	19	1.10	22	738	18.20	1	2	0.10	2	1142
8.40	11	22	1.10	22	760	18.40	1	2	0.10	2	1144
8.60	13	24	1.10	22	782	18.60	1	2	0.10	2	1146
8.80	12	21	0.90	18	800	18.80	1	2	0.10	2	1148
9.00	6	18	1.20	24	824	19.00	1	2	0.10	2	1150
9.20	1	2	0.10	2	826	19.20	1	2	0.10	2	1152
9.40	1	2	0.10	2	828	19.40	1	2	0.10	2	1154
9.60	1	2	0.10	2	830	19.60	1	2	0.10	2	1156
9.80	1	2	0.10	2	832	19.80	1	2	0.10	2	1158
10.00	1	2	0.10	2	834	20.00	1	2	0.10	2	1160

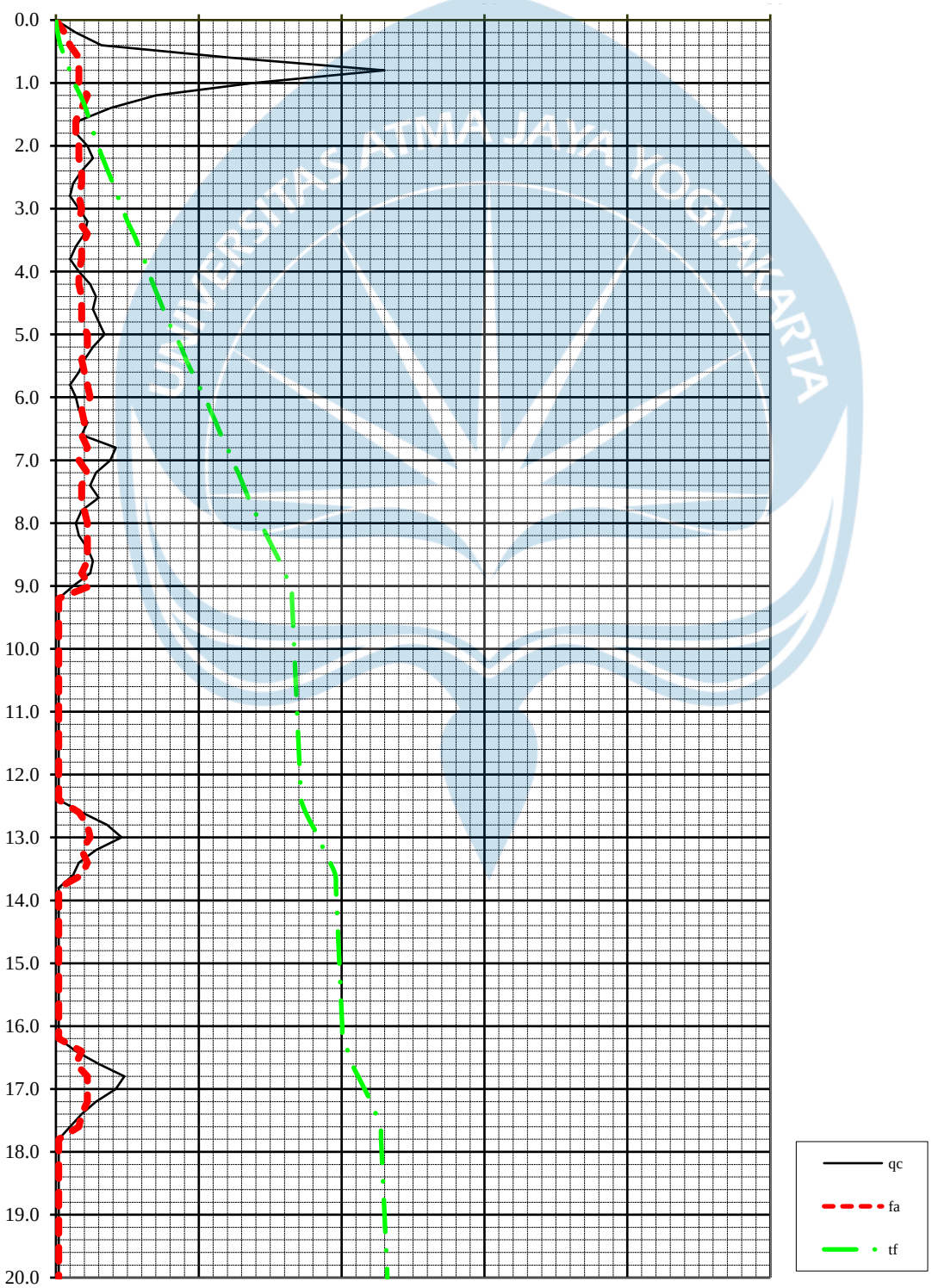
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 1
Date :

Elevation : ±0,00 m dari muka jalan
G.Water Depth : -4,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

NUMBER OF CPT. : 2
ELEVATION : ±0,00 m dari muka jalan
G.WATER DEPTH : -4,00 meter dari muka tanah
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0.00	0	0	0.00								
0.20	5	9	0.40	8	8	10.20	18	29	1.10	22	694
0.40	12	18	0.60	12	20	10.40	11	23	1.20	24	718
0.60	16	25	0.90	18	38	10.60	8	19	1.10	22	740
0.80	14	19	0.50	10	48	10.80	6	14	0.80	16	756
1.00	17	28	1.10	22	70	11.00	5	13	0.80	16	772
1.20	22	34	1.20	24	94	11.20	1	2	0.10	2	774
1.40	18	29	1.10	22	116	11.40	1	2	0.10	2	776
1.60	14	23	0.90	18	134	11.60	1	2	0.10	2	778
1.80	39	48	0.90	18	152	11.80	1	2	0.10	2	780
2.00	28	37	0.90	18	170	12.00	1	2	0.10	2	782
2.20	11	19	0.80	16	186	12.20	1	2	0.10	2	784
2.40	15	24	0.90	18	204	12.40	1	2	0.10	2	786
2.60	9	18	0.90	18	222	12.60	1	2	0.10	2	788
2.80	1	2	0.10	2	224	12.80	1	2	0.10	2	790
3.00	1	2	0.10	2	226	13.00	1	2	0.10	2	792
3.20	1	2	0.10	2	228	13.20	26	35	0.90	18	810
3.40	1	2	0.10	2	230	13.40	19	29	1.00	20	830
3.60	1	2	0.10	2	232	13.60	8	16	0.80	16	846
3.80	1	2	0.10	2	234	13.80	1	2	0.10	2	848
4.00	1	2	0.10	2	236	14.00	1	2	0.10	2	850
4.20	1	2	0.10	2	238	14.20	1	2	0.10	2	852
4.40	1	2	0.10	2	240	14.40	1	2	0.10	2	854
4.60	12	21	0.90	18	258	14.60	1	2	0.10	2	856
4.80	8	19	1.10	22	280	14.80	1	2	0.10	2	858
5.00	5	12	0.70	14	294	15.00	1	2	0.10	2	860
5.20	11	21	1.00	20	314	15.20	1	2	0.10	2	862
5.40	13	24	1.10	22	336	15.40	1	2	0.10	2	864
5.60	10	19	0.90	18	354	15.60	1	2	0.10	2	866
5.80	7	16	0.90	18	372	15.80	1	2	0.10	2	868
6.00	6	15	0.90	18	390	16.00	1	2	0.10	2	870
6.20	1	2	0.10	2	392	16.20	1	2	0.10	2	872
6.40	1	2	0.10	2	394	16.40	1	2	0.10	2	874
6.60	7	13	0.60	12	406	16.60	1	2	0.10	2	876
6.80	16	27	1.10	22	428	16.80	1	2	0.10	2	878
7.00	13	25	1.20	24	452	17.00	1	2	0.10	2	880
7.20	15	26	1.10	22	474	17.20	1	2	0.10	2	882
7.40	9	18	0.90	18	492	17.40	1	2	0.10	2	884
7.60	6	15	0.90	18	510	17.60	1	2	0.10	2	886
7.80	14	26	1.20	24	534	17.80	1	2	0.10	2	888
8.00	18	31	1.30	26	560	18.00	13	24	1.10	22	910
8.20	12	23	1.10	22	582	18.20	24	36	1.20	24	934
8.40	7	16	0.90	18	600	18.40	33	45	1.20	24	958
8.60	5	13	0.80	16	616	18.60	19	30	1.10	22	980
8.80	1	2	0.10	2	618	18.80	8	15	0.70	14	994
9.00	1	2	0.10	2	620	19.00	6	13	0.70	14	1008
9.20	1	2	0.10	2	622	19.20	1	2	0.10	2	1010
9.40	1	2	0.10	2	624	19.40	1	2	0.10	2	1012
9.60	1	2	0.10	2	626	19.60	1	2	0.10	2	1014
9.80	13	24	1.10	22	648	19.80	1	2	0.10	2	1016
10.00	15	27	1.20	24	672	20.00	1	2	0.10	2	1018

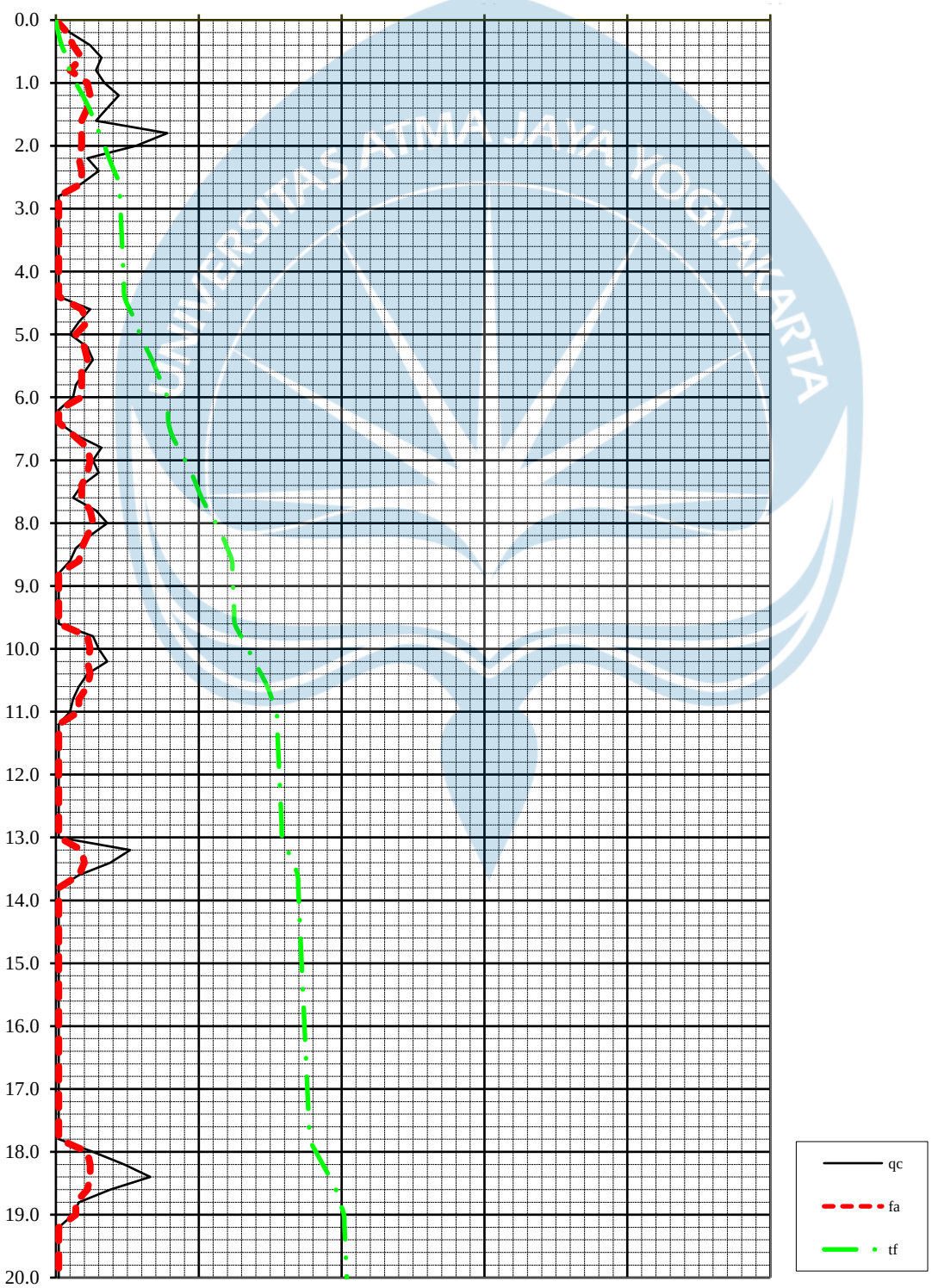
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 2
Date :

Elevation : ±0,00 m dari muka jalan
G.Water Depth : -4,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

NUMBER OF CPT. : 3
ELEVATION : ±0,00 m dari muka jalan
G.WATER DEPTH : -4,00 meter dari muka tanah

DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0.00	0	0	0.00								
0.20	5	11	0.60	12	12	10.20	1	2	0.10	2	532
0.40	9	14	0.50	10	22	10.40	1	2	0.10	2	534
0.60	16	27	1.10	22	44	10.60	1	2	0.10	2	536
0.80	12	21	0.90	18	62	10.80	1	2	0.10	2	538
1.00	20	31	1.10	22	84	11.00	1	2	0.10	2	540
1.20	18	29	1.10	22	106	11.20	1	2	0.10	2	542
1.40	7	15	0.80	16	122	11.40	6	14	0.80	16	558
1.60	5	12	0.70	14	136	11.60	14	25	1.10	22	580
1.80	29	38	0.90	18	154	11.80	29	40	1.10	22	602
2.00	37	47	1.00	20	174	12.00	32	41	0.90	18	620
2.20	24	33	0.90	18	192	12.20	21	32	1.10	22	642
2.40	9	18	0.90	18	210	12.40	17	29	1.20	24	666
2.60	6	14	0.80	16	226	12.60	12	24	1.20	24	690
2.80	5	12	0.70	14	240	12.80	8	16	0.80	16	706
3.00	1	2	0.10	2	242	13.00	5	12	0.70	14	720
3.20	1	2	0.10	2	244	13.20	1	2	0.10	2	722
3.40	1	2	0.10	2	246	13.40	1	2	0.10	2	724
3.60	1	2	0.10	2	248	13.60	1	2	0.10	2	726
3.80	1	2	0.10	2	250	13.80	1	2	0.10	2	728
4.00	1	2	0.10	2	252	14.00	1	2	0.10	2	730
4.20	1	2	0.10	2	254	14.20	1	2	0.10	2	732
4.40	7	15	0.80	16	270	14.40	1	2	0.10	2	734
4.60	12	21	0.90	18	288	14.60	1	2	0.10	2	736
4.80	9	19	1.00	20	308	14.80	1	2	0.10	2	738
5.00	11	20	0.90	18	326	15.00	1	2	0.10	2	740
5.20	8	19	1.10	22	348	15.20	1	2	0.10	2	742
5.40	14	23	0.90	18	366	15.40	1	2	0.10	2	744
5.60	9	18	0.90	18	384	15.60	1	2	0.10	2	746
5.80	6	14	0.80	16	400	15.80	1	2	0.10	2	748
6.00	1	2	0.10	2	402	16.00	1	2	0.10	2	750
6.20	1	2	0.10	2	404	16.20	1	2	0.10	2	752
6.40	1	2	0.10	2	406	16.40	1	2	0.10	2	754
6.60	1	2	0.10	2	408	16.60	1	2	0.10	2	756
6.80	1	2	0.10	2	410	16.80	1	2	0.10	2	758
7.00	1	2	0.10	2	412	17.00	1	2	0.10	2	760
7.20	1	2	0.10	2	414	17.20	1	2	0.10	2	762
7.40	8	18	1.00	20	434	17.40	1	2	0.10	2	764
7.60	19	29	1.00	20	454	17.60	1	2	0.10	2	766
7.80	16	27	1.10	22	476	17.80	1	2	0.10	2	768
8.00	11	20	0.90	18	494	18.00	1	2	0.10	2	770
8.20	7	16	0.90	18	512	18.20	1	2	0.10	2	772
8.40	1	2	0.10	2	514	18.40	1	2	0.10	2	774
8.60	1	2	0.10	2	516	18.60	1	2	0.10	2	776
8.80	1	2	0.10	2	518	18.80	6	18	1.20	24	800
9.00	1	2	0.10	2	520	19.00	11	22	1.10	22	822
9.20	1	2	0.10	2	522	19.20	8	19	1.10	22	844
9.40	1	2	0.10	2	524	19.40	1	2	0.10	2	846
9.60	1	2	0.10	2	526	19.60	1	2	0.10	2	848
9.80	1	2	0.10	2	528	19.80	1	2	0.10	2	850
10.00	1	2	0.10	2	530	20.00	1	2	0.10	2	852

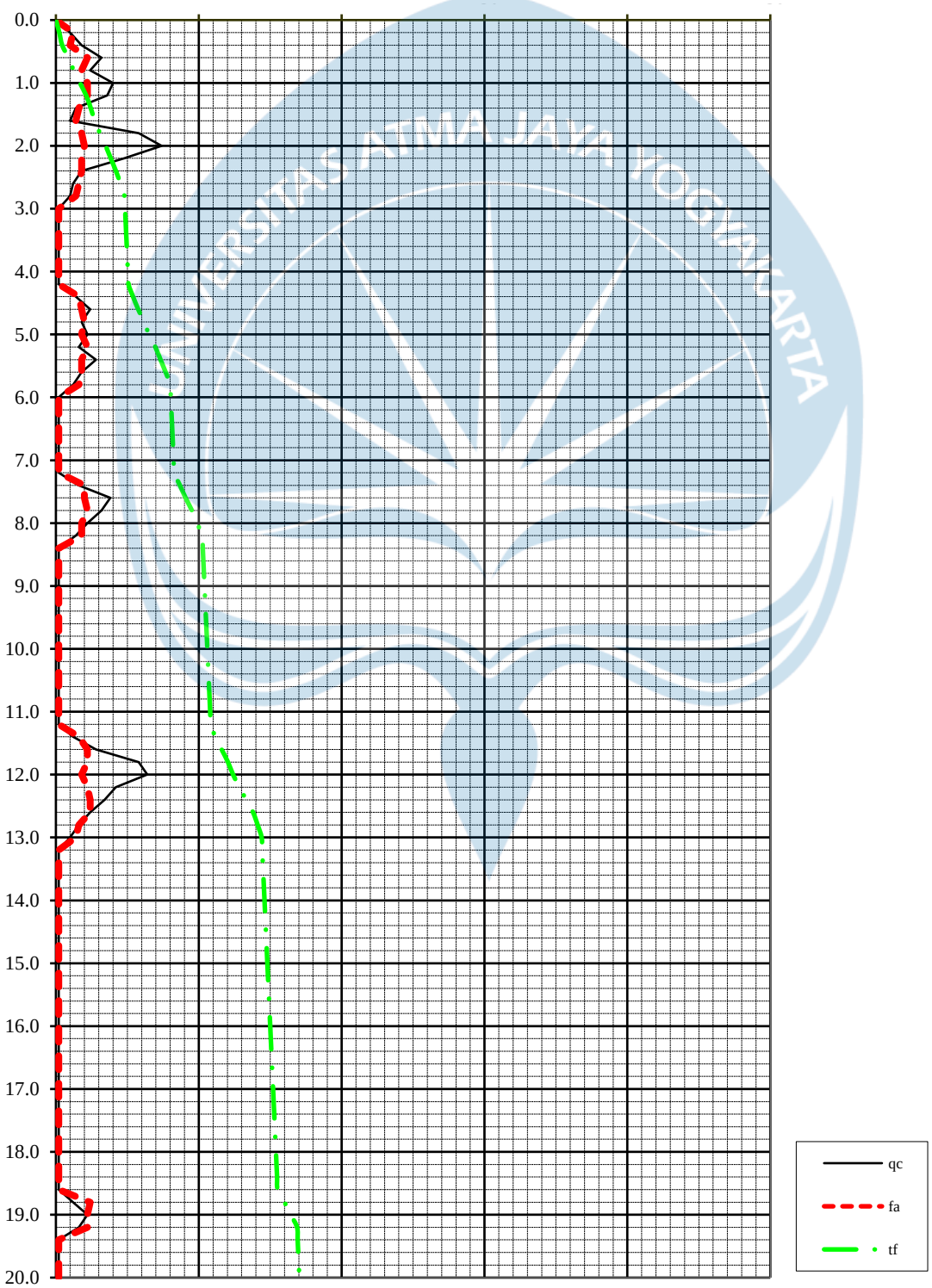
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 3
Date : 20 Desember 2019

Elevation : ±0,00 m dari muka jalan
G.Water Depth : -4,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

NUMBER OF CPT. : 4
ELEVATION : -0,20 m dari muka jalan
G.WATER DEPTH : -4,00 meter dari muka tanah

DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0.00	0	0	0.00								
0.20	6	15	0.90	18	18	10.20	1	2	0.10	2	624
0.40	15	24	0.90	18	36	10.40	1	2	0.10	2	626
0.60	24	33	0.90	18	54	10.60	1	2	0.10	2	628
0.80	13	24	1.10	22	76	10.80	1	2	0.10	2	630
1.00	18	29	1.10	22	98	11.00	1	2	0.10	2	632
1.20	22	31	0.90	18	116	11.20	1	2	0.10	2	634
1.40	14	23	0.90	18	134	11.40	1	2	0.10	2	636
1.60	11	21	1.00	20	154	11.60	1	2	0.10	2	638
1.80	9	18	0.90	18	172	11.80	1	2	0.10	2	640
2.00	6	15	0.90	18	190	12.00	1	2	0.10	2	642
2.20	12	21	0.90	18	208	12.20	1	2	0.10	2	644
2.40	14	23	0.90	18	226	12.40	1	2	0.10	2	646
2.60	10	20	1.00	20	246	12.60	8	16	0.80	16	662
2.80	13	21	0.80	16	262	12.80	12	24	1.20	24	686
3.00	19	30	1.10	22	284	13.00	19	32	1.30	26	712
3.20	12	21	0.90	18	302	13.20	16	28	1.20	24	736
3.40	7	15	0.80	16	318	13.40	24	36	1.20	24	760
3.60	5	13	0.80	16	334	13.60	27	39	1.20	24	784
3.80	1	2	0.10	2	336	13.80	23	32	0.90	18	802
4.00	1	2	0.10	2	338	14.00	18	31	1.30	26	828
4.20	1	2	0.10	2	340	14.20	14	26	1.20	24	852
4.40	1	2	0.10	2	342	14.40	11	23	1.20	24	876
4.60	1	2	0.10	2	344	14.60	9	20	1.10	22	898
4.80	1	2	0.10	2	346	14.80	12	21	0.90	18	916
5.00	1	2	0.10	2	348	15.00	8	17	0.90	18	934
5.20	1	2	0.10	2	350	15.20	5	14	0.90	18	952
5.40	1	2	0.10	2	352	15.40	1	2	0.10	2	954
5.60	12	21	0.90	18	370	15.60	1	2	0.10	2	956
5.80	16	27	1.10	22	392	15.80	1	2	0.10	2	958
6.00	28	39	1.10	22	414	16.00	1	2	0.10	2	960
6.20	19	31	1.20	24	438	16.20	1	2	0.10	2	962
6.40	17	28	1.10	22	460	16.40	1	2	0.10	2	964
6.60	23	32	0.90	18	478	16.60	1	2	0.10	2	966
6.80	18	28	1.00	20	498	16.80	1	2	0.10	2	968
7.00	9	19	1.00	20	518	17.00	1	2	0.10	2	970
7.20	7	14	0.70	14	532	17.20	1	2	0.10	2	972
7.40	1	2	0.10	2	534	17.40	11	22	1.10	22	994
7.60	1	2	0.10	2	536	17.60	26	37	1.10	22	1016
7.80	1	2	0.10	2	538	17.80	39	51	1.20	24	1040
8.00	1	2	0.10	2	540	18.00	42	53	1.10	22	1062
8.20	1	2	0.10	2	542	18.20	28	39	1.10	22	1084
8.40	1	2	0.10	2	544	18.40	19	30	1.10	22	1106
8.60	1	2	0.10	2	546	18.60	24	35	1.10	22	1128
8.80	1	2	0.10	2	548	18.80	27	38	1.10	22	1150
9.00	1	2	0.10	2	550	19.00	32	43	1.10	22	1172
9.20	1	2	0.10	2	552	19.20	36	49	1.30	26	1198
9.40	6	13	0.70	14	566	19.40	43	54	1.10	22	1220
9.60	13	22	0.90	18	584	19.60	38	47	0.90	18	1238
9.80	7	17	1.00	20	604	19.80	26	37	1.10	22	1260
10.00	5	14	0.90	18	622	20.00	23	33	1.00	20	1280

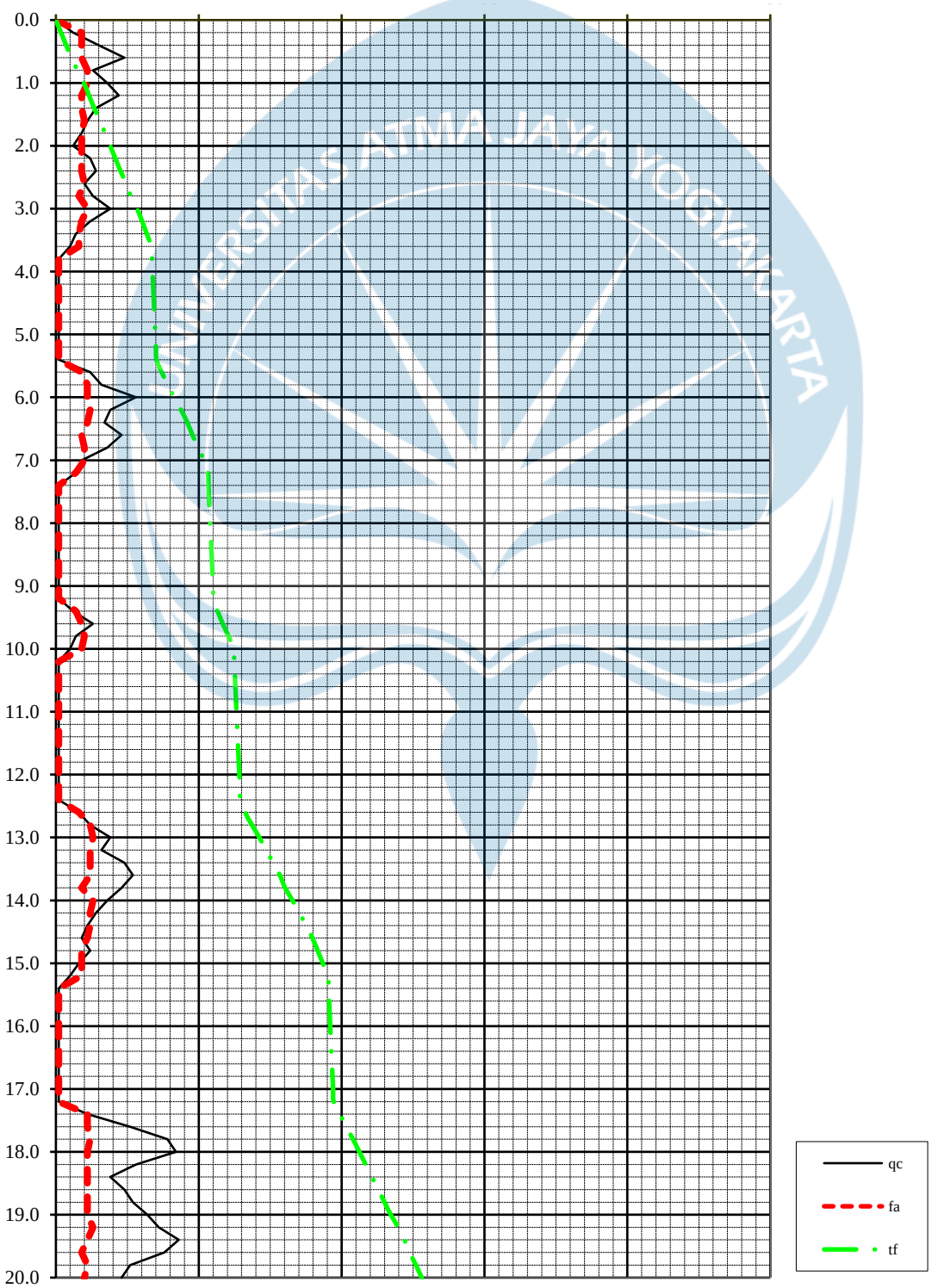
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 4
Date :

Elevation : -0,20 m dari muka jalan
G.Water Depth : -4,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



SOIL MECHANIC LABORATORY
CIVIL ENGINEERING PROGRAM
FACULTY OF ENGINEERING, UAJY
44 BABARSARI STREET, YOGYAKARTA 55281
Tel: +62-274-487711 ext. 2052
Fax: +62-274-487748

Boring Number:

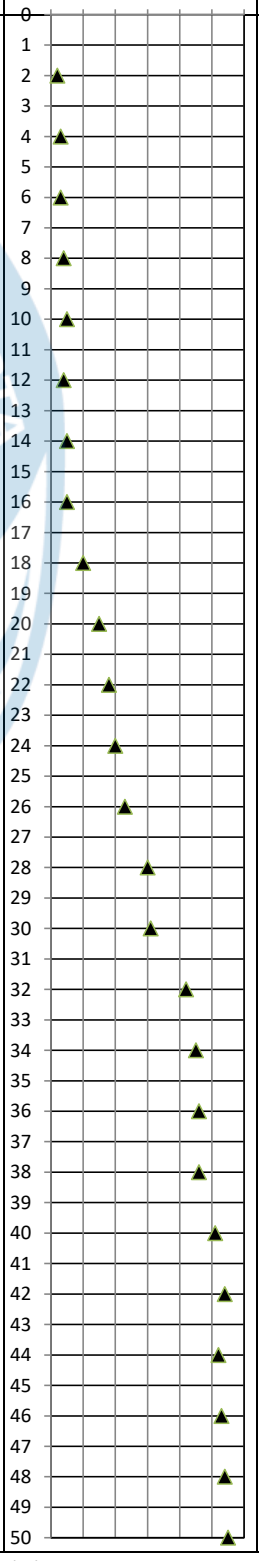
BH-1

BOR LOG

GROUND ELEVATION : - 0,20 m from road level
HOLE SIZE : 7.295cm
GROUND WATER LEVEL : -4,00 m from ground level
WEATHER CONDITION : FINE
ESTIMATED SEASONAL HIGH : -

DRILLING METHOD: ROTARY SPINDLE, SKID MOUNTED TYPE

Depth (m)	Graph Log	Material Description (field observations)	Contact Depth (m)	Sample Number	Blow Counts (N Value) N1	N2	N3	Nv	Water Level Elevation (m)
1									
2					1	1	1	2	
3									
4					1	1	2	3	
5									
6					1	1	2	3	
7									
8					2	2	2	4	
9									
10				I	2	2	3	5	
11									
12					1	2	2	4	
13									
14					1	2	3	5	
15		Lanau berpasir sedikit							
16		lempung (abu-abu)	30		2	2	3	5	
17									
18					2	4	6	10	
19									
20				II	4	6	9	15	
21									
22					4	8	10	18	
23									
24					5	8	12	20	
25									
26					7	9	14	23	
27									
28					9	14	16	30	
29									
30					9	14	17	31	
31									
32					12	15	27	42	
33									
34					12	15	30	45	
35									
36					12	16	30	46	
37									
38					13	15	31	46	
39									
40		Pasir lanau (abu-abu)	20		14	21	30	51	
41									
42					14	24	30	54	
43									
44					12	20	32	52	
45									
46					15	23	30	53	
47									
48					16	22	32	54	
49									
50					16	24	31	55	



Catatan: Pada pengamatan di lapangan, lanau bisa tampak seperti pasir halus atau pasir sangat halus

Laboratorium Mekanika Tanah
UNIVERSITAS ATMA JAYA YOGYAKARTA
Fakultas Teknik - Program Studi Teknik Sipil
Jl. Babarsari No. 44 Yogyakarta 55281 Indonesia
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

REKAP HASIL PENGUJIAN TANAH

Proyek :
Lokasi :
Tanggal :

Titik	Kedalaman (m)	Kadar Air (%)	Berat Jenis (G)	γ_b (gr/cm^3)	γ_k (gr/cm^3)	Pengujian Geser Langsung	
						c (kg/cm^2)	θ°
BH 1	10.00	40.52	2.53	1.58	1.12	0.10	11.91
	20.00	48.92	2.51	1.56	1.05	0.10	17.01

Laboratorium Mekanika Tanah
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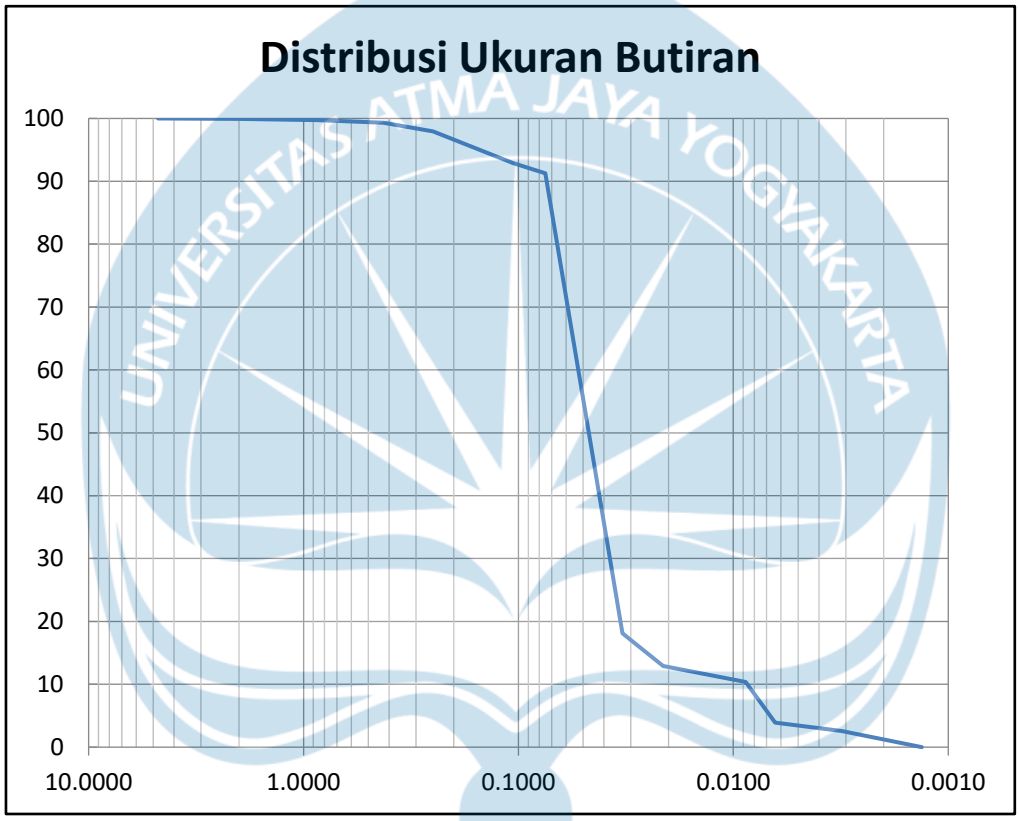
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH 1
Kedalaman: 10.00



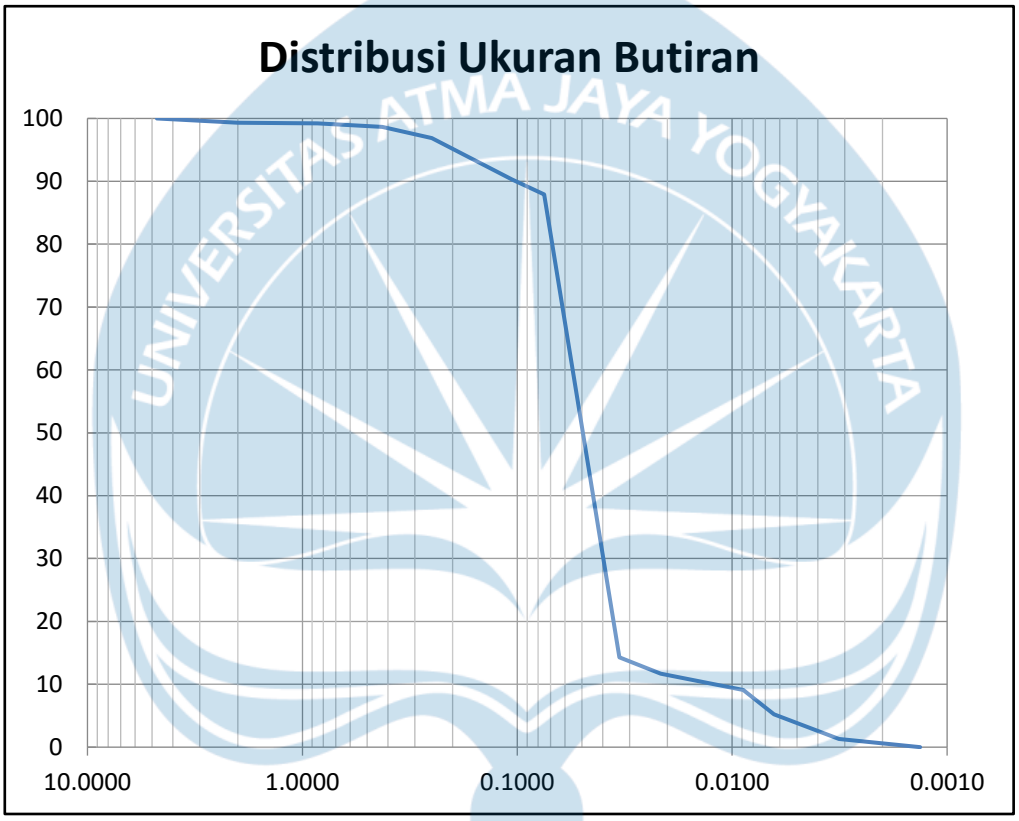
No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4.750	0.00	100.00	100.00
10	2.000	0.07	99.93	99.93
20	0.850	0.21	99.72	99.72
40	0.425	0.38	99.34	99.34
60	0.250	1.38	97.96	97.96
140	0.106	5.07	92.89	92.89
200	0.075	1.64	91.25	91.25
Pan		91.25		

Laboratorium Mekanika Tanah
UNIVERSITAS ATMA JAYA YOGYAKARTA
Fakultas Teknik - Program Studi Teknik Sipil
Jl. Babarsari No. 44 Yogyakarta 55281 Indonesia
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH 1
Kedalaman: 20.00



No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4.750	0.00	100.00	100.00
10	2.000	0.66	99.34	99.34
20	0.850	0.12	99.22	99.22
40	0.425	0.58	98.64	98.64
60	0.250	1.78	96.86	96.86
140	0.106	6.53	90.33	90.33
200	0.075	2.44	87.89	87.89
Pan		87.89		

SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 1
ELEVATION : ±0,00 m dari muka jalan
G.WATER DEPTH : -3,00 meter dari muka tanah
DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0.00	0	0	0.00								
0.20	3	5	0.20	4	4	10.20	18	21	0.30	6	280
0.40	4	6	0.20	4	8	10.40	26	29	0.30	6	286
0.60	7	9	0.20	4	12	10.60	24	27	0.30	6	292
0.80	10	12	0.20	4	16	10.80	20	23	0.30	6	298
1.00	11	14	0.30	6	22	11.00	28	31	0.30	6	304
1.20	15	18	0.30	6	28	11.20	32	35	0.30	6	310
1.40	20	23	0.30	6	34	11.40	41	44	0.30	6	316
1.60	16	19	0.30	6	40	11.60	36	39	0.30	6	322
1.80	23	26	0.30	6	46	11.80	29	32	0.30	6	328
2.00	18	21	0.30	6	52	12.00	18	21	0.30	6	334
2.20	17	20	0.30	6	58	12.20	24	27	0.30	6	340
2.40	13	16	0.30	6	64	12.40	16	19	0.30	6	346
2.60	11	14	0.30	6	70	12.60	13	16	0.30	6	352
2.80	10	13	0.30	6	76	12.80	28	31	0.30	6	358
3.00	9	11	0.20	4	80	13.00	22	25	0.30	6	364
3.20	11	14	0.30	6	86	13.20	16	19	0.30	6	370
3.40	8	10	0.20	4	90	13.40	11	14	0.30	6	376
3.60	7	9	0.20	4	94	13.60	7	9	0.20	4	380
3.80	9	11	0.20	4	98	13.80	6	8	0.20	4	384
4.00	6	8	0.20	4	102	14.00	18	21	0.30	6	390
4.20	14	17	0.30	6	108	14.20	25	28	0.30	6	396
4.40	20	23	0.30	6	114	14.40	36	39	0.30	6	402
4.60	38	41	0.30	6	120	14.60	11	14	0.30	6	408
4.80	29	32	0.30	6	126	14.80	6	8	0.20	4	412
5.00	21	24	0.30	6	132	15.00	1	2	0.10	2	414
5.20	12	15	0.30	6	138	15.20	1	2	0.10	2	416
5.40	8	10	0.20	4	142	15.40	1	2	0.10	2	418
5.60	13	16	0.30	6	148	15.60	1	2	0.10	2	420
5.80	19	22	0.30	6	154	15.80	1	2	0.10	2	422
6.00	17	20	0.30	6	160	16.00	1	2	0.10	2	424
6.20	12	15	0.30	6	166	16.20	1	2	0.10	2	426
6.40	14	17	0.30	6	172	16.40	1	2	0.10	2	428
6.60	21	24	0.30	6	178	16.60	1	2	0.10	2	430
6.80	22	25	0.30	6	184	16.80	1	2	0.10	2	432
7.00	18	21	0.30	6	190	17.00	1	2	0.10	2	434
7.20	16	19	0.30	6	196	17.20	1	2	0.10	2	436
7.40	11	14	0.30	6	202	17.40	1	2	0.10	2	438
7.60	15	18	0.30	6	208	17.60	11	14	0.30	6	444
7.80	14	17	0.30	6	214	17.80	26	29	0.30	6	450
8.00	8	10	0.20	4	218	18.00	39	42	0.30	6	456
8.20	9	11	0.20	4	222	18.20	9	12	0.30	6	462
8.40	13	16	0.30	6	228	18.40	1	2	0.10	2	464
8.60	18	21	0.30	6	234	18.60	1	2	0.10	2	466
8.80	24	27	0.30	6	240	18.80	1	2	0.10	2	468
9.00	19	22	0.30	6	246	19.00	1	2	0.10	2	470
9.20	12	15	0.30	6	252	19.20	1	2	0.10	2	472
9.40	14	17	0.30	6	258	19.40	19	22	0.30	6	478
9.60	9	11	0.20	4	262	19.60	24	27	0.30	6	484
9.80	13	16	0.30	6	268	19.80	16	19	0.30	6	490
10.00	15	18	0.30	6	274	20.00	9	11	0.20	4	494

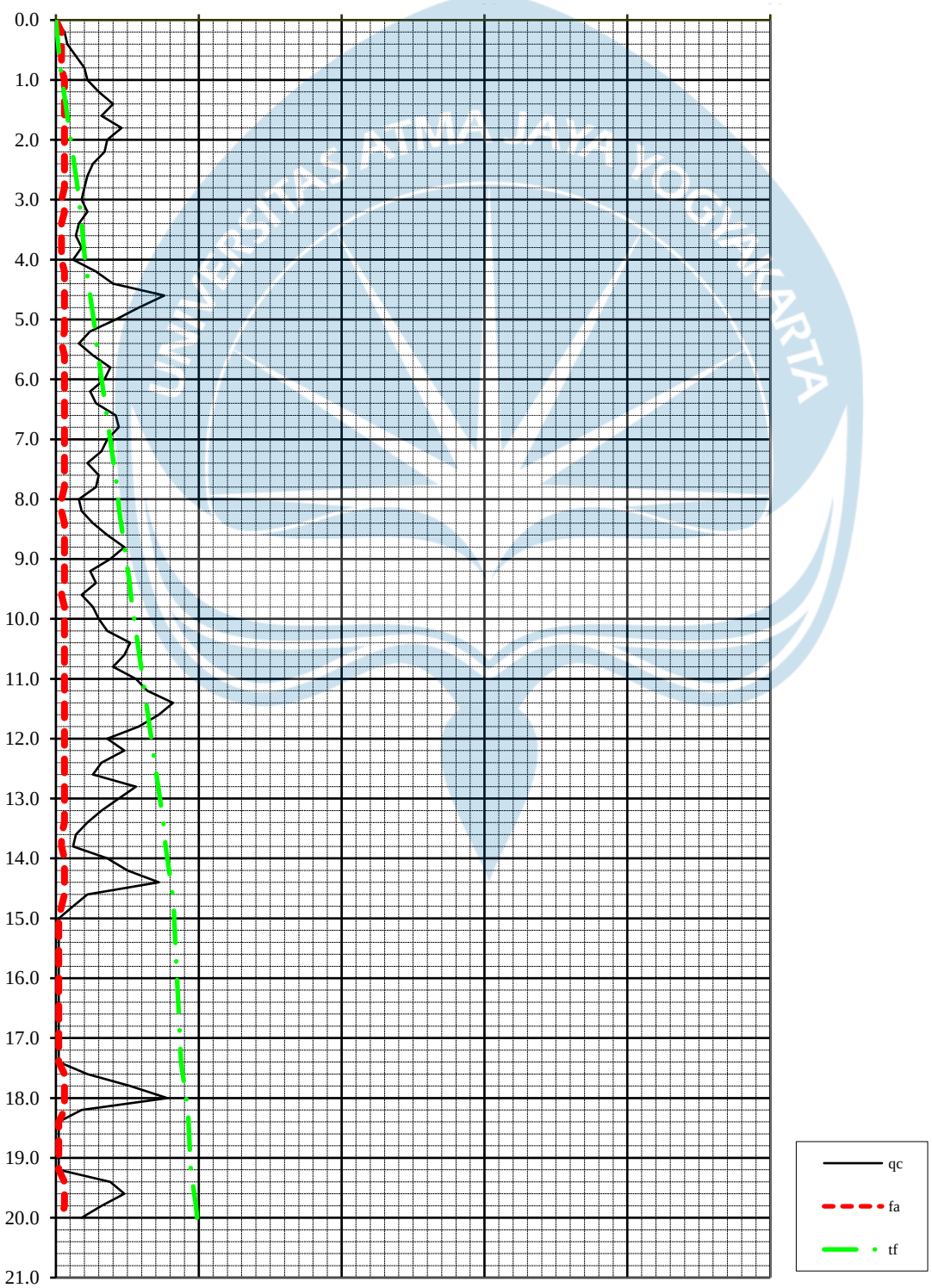
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 1
Date :

Elevation : ±0,00 m dari muka jalan
G.Water Depth : -3,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION	:	**ATE**	:
NUMBER OF CPT.	: 2	**WEATHER**	: Cerah
ELEVATION	: ±0,00 m dari muka jalan	**SURVEYOR**	:
G.WATER DEPTH	: -3,00 meter dari muka tanah	**PROJECT**	:

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0.00	0	0	0.00								
0.20	4	6	0.20	4	4	10.20	1	2	0.10	2	246
0.40	5	7	0.20	4	8	10.40	1	2	0.10	2	248
0.60	8	10	0.20	4	12	10.60	1	2	0.10	2	250
0.80	12	15	0.30	6	18	10.80	1	2	0.10	2	252
1.00	10	13	0.30	6	24	11.00	1	2	0.10	2	254
1.20	11	14	0.30	6	30	11.20	1	2	0.10	2	256
1.40	15	18	0.30	6	36	11.40	11	14	0.30	6	262
1.60	25	28	0.30	6	42	11.60	13	16	0.30	6	268
1.80	28	31	0.30	6	48	11.80	22	25	0.30	6	274
2.00	19	22	0.30	6	54	12.00	18	21	0.30	6	280
2.20	12	15	0.30	6	60	12.20	12	15	0.30	6	286
2.40	8	10	0.20	4	64	12.40	8	10	0.20	4	290
2.60	13	16	0.30	6	70	12.60	16	19	0.30	6	296
2.80	14	17	0.30	6	76	12.80	15	18	0.30	6	302
3.00	10	13	0.30	6	82	13.00	7	9	0.20	4	306
3.20	26	29	0.30	6	88	13.20	1	2	0.10	2	308
3.40	38	41	0.30	6	94	13.40	1	2	0.10	2	310
3.60	45	48	0.30	6	100	13.60	1	2	0.10	2	312
3.80	34	37	0.30	6	106	13.80	1	2	0.10	2	314
4.00	27	30	0.30	6	112	14.00	1	2	0.10	2	316
4.20	22	25	0.30	6	118	14.20	1	2	0.10	2	318
4.40	16	19	0.30	6	124	14.40	1	2	0.10	2	320
4.60	28	31	0.30	6	130	14.60	1	2	0.10	2	322
4.80	19	22	0.30	6	136	14.80	1	2	0.10	2	324
5.00	15	18	0.30	6	142	15.00	1	2	0.10	2	326
5.20	11	14	0.30	6	148	15.20	1	2	0.10	2	328
5.40	6	8	0.20	4	152	15.40	1	2	0.10	2	330
5.60	9	11	0.20	4	156	15.60	1	2	0.10	2	332
5.80	15	18	0.30	6	162	15.80	1	2	0.10	2	334
6.00	19	22	0.30	6	168	16.00	1	2	0.10	2	336
6.20	26	29	0.30	6	174	16.20	1	2	0.10	2	338
6.40	28	31	0.30	6	180	16.40	1	2	0.10	2	340
6.60	19	22	0.30	6	186	16.60	1	2	0.10	2	342
6.80	20	23	0.30	6	192	16.80	1	2	0.10	2	344
7.00	14	17	0.30	6	198	17.00	1	2	0.10	2	346
7.20	12	15	0.30	6	204	17.20	1	2	0.10	2	348
7.40	18	21	0.30	6	210	17.40	1	2	0.10	2	350
7.60	13	16	0.30	6	216	17.60	1	2	0.10	2	352
7.80	9	11	0.20	4	220	17.80	1	2	0.10	2	354
8.00	5	7	0.20	4	224	18.00	1	2	0.10	2	356
8.20	1	2	0.10	2	226	18.20	1	2	0.10	2	358
8.40	1	2	0.10	2	228	18.40	1	2	0.10	2	360
8.60	1	2	0.10	2	230	18.60	1	2	0.10	2	362
8.80	1	2	0.10	2	232	18.80	1	2	0.10	2	364
9.00	1	2	0.10	2	234	19.00	1	2	0.10	2	366
9.20	1	2	0.10	2	236	19.20	1	2	0.10	2	368
9.40	1	2	0.10	2	238	19.40	1	2	0.10	2	370
9.60	1	2	0.10	2	240	19.60	1	2	0.10	2	372
9.80	1	2	0.10	2	242	19.80	1	2	0.10	2	374
10.00	1	2	0.10	2	244	20.00	1	2	0.10	2	376

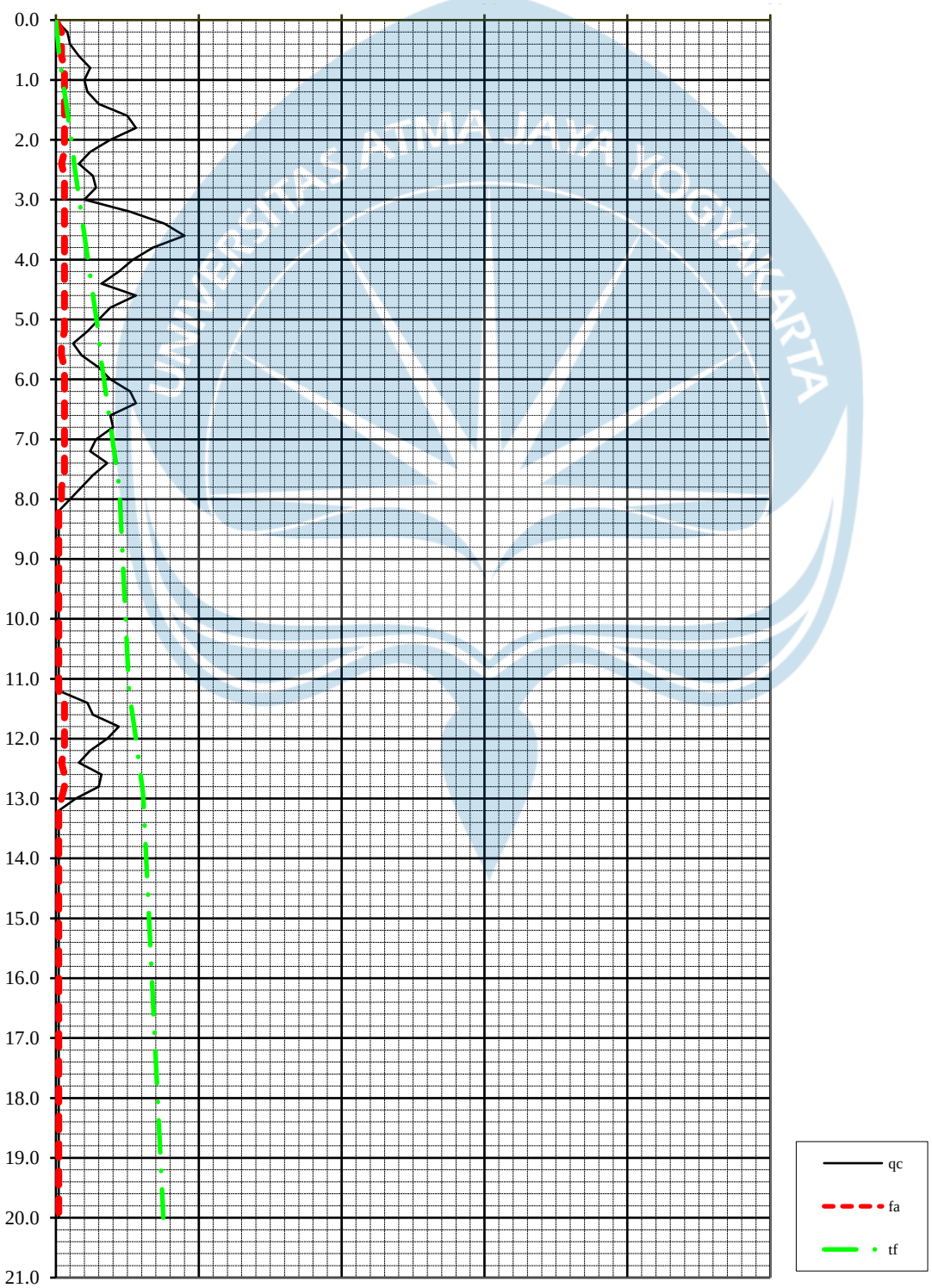
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 2
Date :

Elevation : ±0,00 m dari muka jalan
G.Water Depth : -3,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



2

SOIL MECHANIC LABORATORY
CIVIL ENGINEERING PROGRAM
FACULTY OF ENGINEERING, UAJY
44 BABARSARI STREET, YOGYAKARTA 55281
Tel: +62-274-487711 ext. 1055
Fax: +62-274-487748

Boring Number:

BH-1

BOR LOG

CLIENT:

PROJECT TITLE :

PROJECT CONTRACT NUMBER:

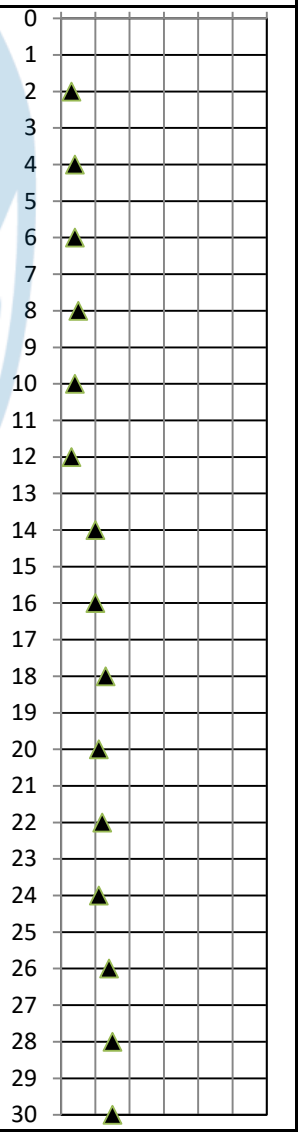
PROJECT LOCATION :

DATE STARTED:
DATE COMPLETED :
DRILLING CONTRACTOR:
DRILLING METHOD: ROTARY SPINDLE, SKID MOUNTED TYPE
LOGGED BY:
CHECKED BY:

GROUND ELEVATION : ± 0,00 m from road level
HOLE SIZE : 7.295cm
GROUND WATER LEVEL : - 3,00 m from ground level
WEATHER CONDITION : FINE
ESTIMATED SEASONAL HIGH : -

Depth (m)	Graph Log	Material Description (field observations)	Contact Depth (m)	Sample Number	Blow Counts (N Value) N1	N2	N3	Nv	Water Level Elevation (m)
1									
2					1	1	2	3	
3		Lanau berpasir (abu-abu)	6						- 3.00
4					1	2	2	4	
5									
6					2	2	2	4	
7									
8					2	2	3	5	
9									
10				I	1	1	3	4	
11									
12		Lempung sedikit pasir (abu-abu)	12		1	1	2	3	
13									
14					2	4	6	10	
15									
16					3	3	7	10	
17									
18					3	6	7	13	
19									
20				II	3	5	6	11	
21									
22					4	5	7	12	
23									
24		Lempung sedikit pasir (abu-abu)	12		3	4	7	11	
25									
26					4	7	7	14	
27									
28					4	7	8	15	
29									
30					4	6	9	15	

SPT Value



Catatan: Pada pengamatan di lapangan, lanau bisa tampak seperti pasir halus atau pasir sangat halus

Laboratorium Mekanika Tanah
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Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

REKAP HASIL PENGUJIAN TANAH

Proyek :
Lokasi :
Tanggal :

Titik	Kedalaman (m)	Kadar Air (%)	Berat Jenis (G)	γ_b (gr/cm^3)	γ_k (gr/cm^3)	Pengujian Geser Langsung	
						c (kg/cm^2)	θ°
BH 1	10.00	67.74	2.32	1.56	0.93	0.10	11.22
	20.00	72.13	2.45	1.59	0.92	0.10	12.49

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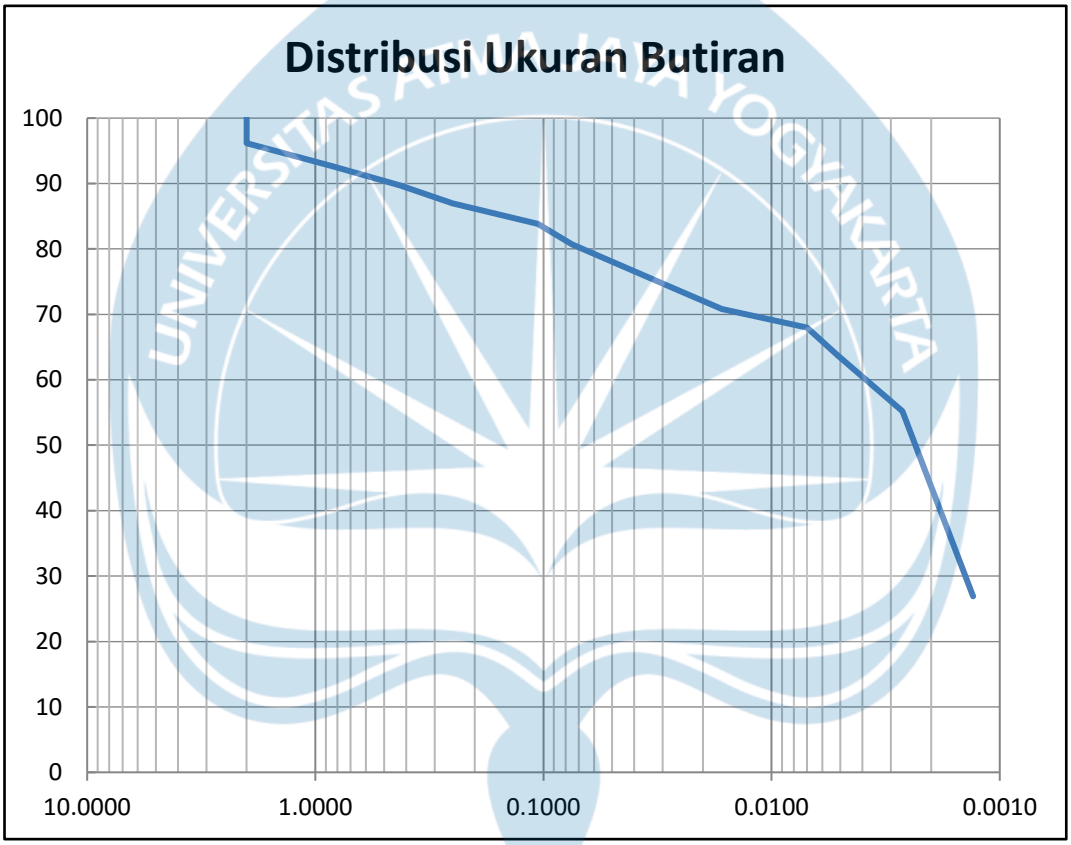
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH 1
Kedalaman: 10.00



No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4.750	0.00	100.00	100.00
10	2.000	3.84	96.16	96.16
20	0.850	3.49	92.67	92.67
40	0.425	2.97	89.70	89.70
60	0.250	2.75	86.95	86.95
140	0.106	3.12	83.83	83.83
200	0.075	3.11	80.72	80.72
Pan		80.72		

Laboratorium Mekanika Tanah
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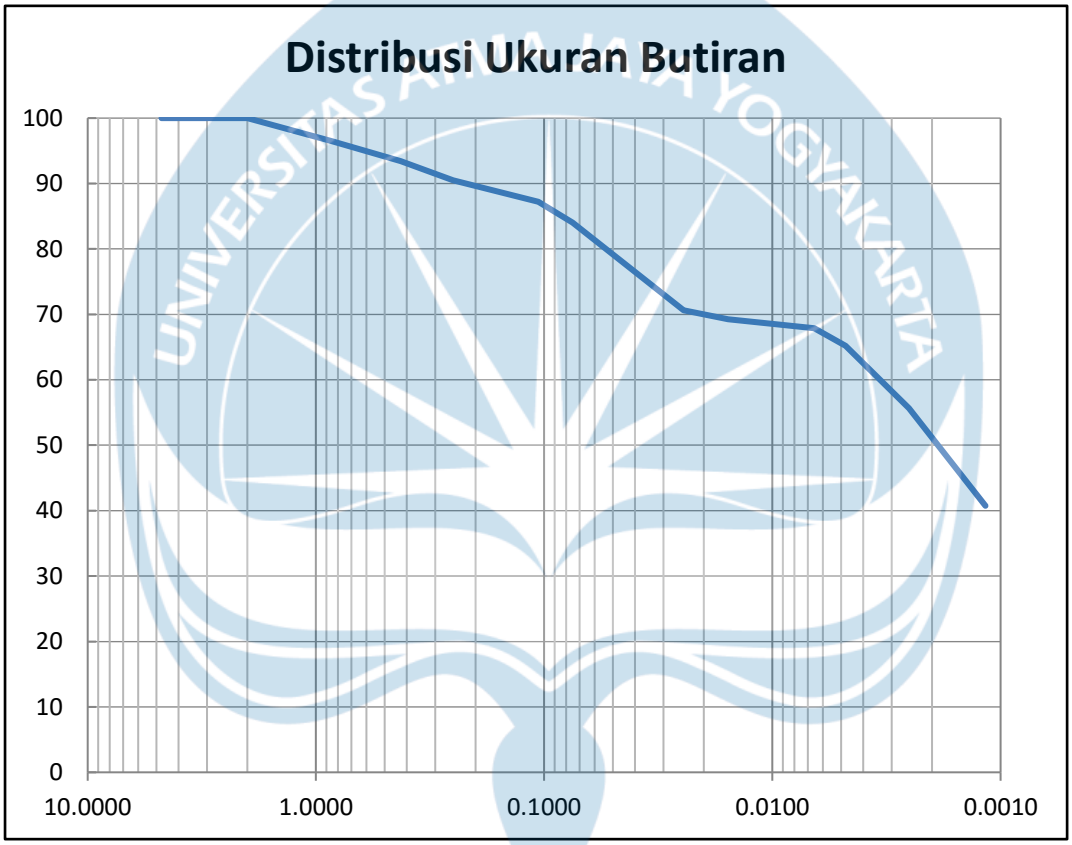
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH 1
Kedalaman: 20.00



No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4.750	0.00	100.00	100.00
10	2.000	0.00	100.00	100.00
20	0.850	3.52	96.48	96.48
40	0.425	3.07	93.41	93.41
60	0.250	2.92	90.49	90.49
140	0.106	3.28	87.21	87.21
200	0.075	3.17	84.04	84.04
Pan		84.04		

SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 1
ELEVATION : -1,00 m dari muka jalan
G.WATER DEPTH : -3,00 meter dari muka tanah

WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0,00	0	0	0,00								
0,20	2	4	0,20	4	4	10,20	28	31	0,30	6	264
0,40	5	7	0,20	4	8	10,40	33	36	0,30	6	270
0,60	8	10	0,20	4	12	10,60	30	33	0,30	6	276
0,80	11	14	0,30	6	18	10,80	34	37	0,30	6	282
1,00	28	31	0,30	6	24	11,00	32	35	0,30	6	288
1,20	43	46	0,30	6	30	11,20	46	49	0,30	6	294
1,40	15	18	0,30	6	36	11,40	51	54	0,30	6	300
1,60	19	21	0,20	4	40	11,60	74	77	0,30	6	306
1,80	8	10	0,20	4	44	11,80	68	71	0,30	6	312
2,00	6	8	0,20	4	48	12,00	76	79	0,30	6	318
2,20	3	5	0,20	4	52	12,20	89	92	0,30	6	324
2,40	4	6	0,20	4	56	12,40	93	96	0,30	6	330
2,60	7	9	0,20	4	60	12,60	104	107	0,30	6	336
2,80	5	7	0,20	4	64	12,80	115	118	0,30	6	342
3,00	2	4	0,20	4	68	13,00	108	111	0,30	6	348
3,20	6	8	0,20	4	72	13,20	125	128	0,30	6	354
3,40	9	11	0,20	4	76	13,40	141	143	0,20	4	358
3,60	10	13	0,30	6	82	13,60	133	136	0,30	6	364
3,80	7	9	0,20	4	86	13,80	138	141	0,30	6	370
4,00	5	7	0,20	4	90	14,00	146	149	0,30	6	376
4,20	11	14	0,30	6	96	14,20	162	165	0,30	6	382
4,40	13	16	0,30	6	102	14,40	179	182	0,30	6	388
4,60	12	15	0,30	6	108	14,60	184	187	0,30	6	394
4,80	14	17	0,30	6	114	14,80	196	199	0,30	6	400
5,00	11	14	0,30	6	120	15,00	208	211	0,30	6	406
5,20	8	10	0,20	4	124	15,20	224	227	0,30	6	412
5,40	13	16	0,30	6	130	15,40	246	250	0,40	8	420
5,60	21	24	0,30	6	136	15,60	250	250	0,00	0	420
5,80	19	22	0,30	6	142	15,80					
6,00	14	17	0,30	6	148	16,00					
6,20	10	13	0,30	6	154	16,20					
6,40	7	9	0,20	4	158	16,40					
6,60	16	19	0,30	6	164	16,60					
6,80	12	15	0,30	6	170	16,80					
7,00	11	14	0,30	6	176	17,00					
7,20	8	10	0,20	4	180	17,20					
7,40	6	8	0,20	4	184	17,40					
7,60	5	7	0,20	4	188	17,60					
7,80	3	5	0,20	4	192	17,80					
8,00	9	12	0,30	6	198	18,00					
8,20	11	14	0,30	6	204	18,20					
8,40	13	16	0,30	6	210	18,40					
8,60	17	20	0,30	6	216	18,60					
8,80	22	25	0,30	6	222	18,80					
9,00	26	29	0,30	6	228	19,00					
9,20	31	34	0,30	6	234	19,20					
9,40	35	38	0,30	6	240	19,40					
9,60	29	32	0,30	6	246	19,60					
9,80	24	27	0,30	6	252	19,80					
10,00	23	26	0,30	6	258	20,00					

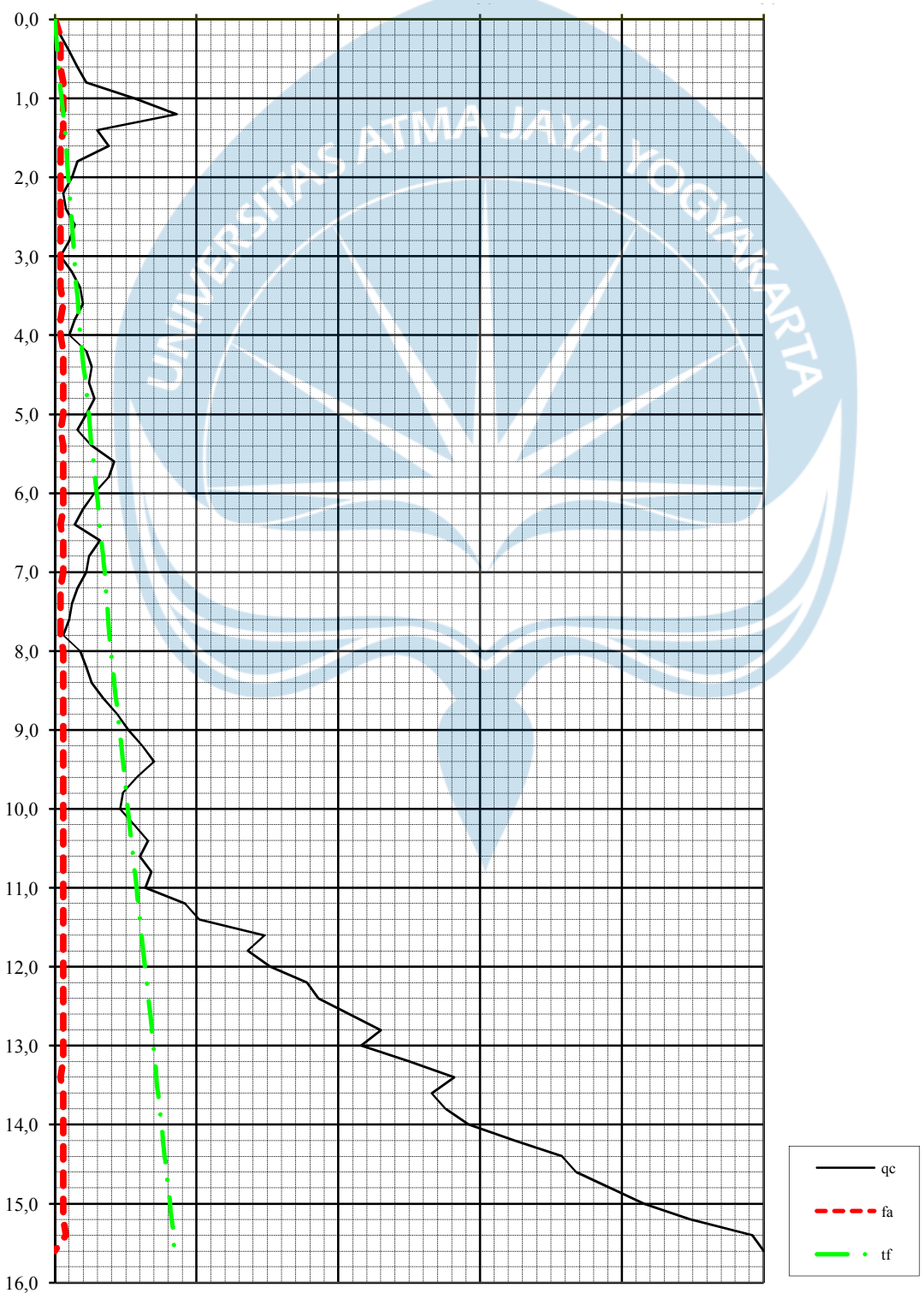
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 1
Date :

Elevation : -1,00 m dari muka jalan
G.Water Depth : -3,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 2
ELEVATION : -1,00 m dari muka jalan
G.WATER DEPTH : -3,00 meter dari muka tanah

WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0,00	0	0	0,00								
0,20	3	5	0,20	4	4	10,20	44	47	0,30	6	282
0,40	6	8	0,20	4	8	10,40	48	51	0,30	6	288
0,60	11	14	0,30	6	14	10,60	42	45	0,30	6	294
0,80	18	21	0,30	6	20	10,80	49	52	0,30	6	300
1,00	16	18	0,20	4	24	11,00	54	57	0,30	6	306
1,20	22	24	0,20	4	28	11,20	43	46	0,30	6	312
1,40	26	29	0,30	6	34	11,40	35	38	0,30	6	318
1,60	18	21	0,30	6	40	11,60	31	34	0,30	6	324
1,80	11	14	0,30	6	46	11,80	46	49	0,30	6	330
2,00	6	8	0,20	4	50	12,00	52	55	0,30	6	336
2,20	8	10	0,20	4	54	12,20	64	67	0,30	6	342
2,40	11	14	0,30	6	60	12,40	73	76	0,30	6	348
2,60	13	16	0,30	6	66	12,60	68	71	0,30	6	354
2,80	9	12	0,30	6	72	12,80	84	87	0,30	6	360
3,00	6	8	0,20	4	76	13,00	96	99	0,30	6	366
3,20	8	10	0,20	4	80	13,20	87	90	0,30	6	372
3,40	7	9	0,20	4	84	13,40	94	97	0,30	6	378
3,60	11	14	0,30	6	90	13,60	116	119	0,30	6	384
3,80	13	16	0,30	6	96	13,80	123	126	0,30	6	390
4,00	10	13	0,30	6	102	14,00	148	151	0,30	6	396
4,20	6	8	0,20	4	106	14,20	142	145	0,30	6	402
4,40	11	14	0,30	6	112	14,40	131	134	0,30	6	408
4,60	20	23	0,30	6	118	14,60	146	149	0,30	6	414
4,80	16	19	0,30	6	124	14,80	160	163	0,30	6	420
5,00	11	14	0,30	6	130	15,00	185	188	0,30	6	426
5,20	13	16	0,30	6	136	15,20	199	202	0,30	6	432
5,40	20	23	0,30	6	142	15,40	206	209	0,30	6	438
5,60	24	27	0,30	6	148	15,60	246	250	0,40	8	446
5,80	23	26	0,30	6	154	15,80	250	250	0,00	0	446
6,00	26	29	0,30	6	160	16,00					
6,20	28	31	0,30	6	166	16,20					
6,40	24	27	0,30	6	172	16,40					
6,60	19	21	0,20	4	176	16,60					
6,80	13	16	0,30	6	182	16,80					
7,00	21	24	0,30	6	188	17,00					
7,20	20	23	0,30	6	194	17,20					
7,40	24	27	0,30	6	200	17,40					
7,60	28	31	0,30	6	206	17,60					
7,80	26	29	0,30	6	212	17,80					
8,00	24	27	0,30	6	218	18,00					
8,20	31	34	0,30	6	224	18,20					
8,40	33	36	0,30	6	230	18,40					
8,60	29	32	0,30	6	236	18,60					
8,80	24	27	0,30	6	242	18,80					
9,00	18	21	0,30	6	248	19,00					
9,20	23	26	0,30	6	254	19,20					
9,40	31	34	0,30	6	260	19,40					
9,60	35	38	0,30	6	266	19,60					
9,80	37	40	0,30	6	272	19,80					
10,00	42	44	0,20	4	276	20,00					

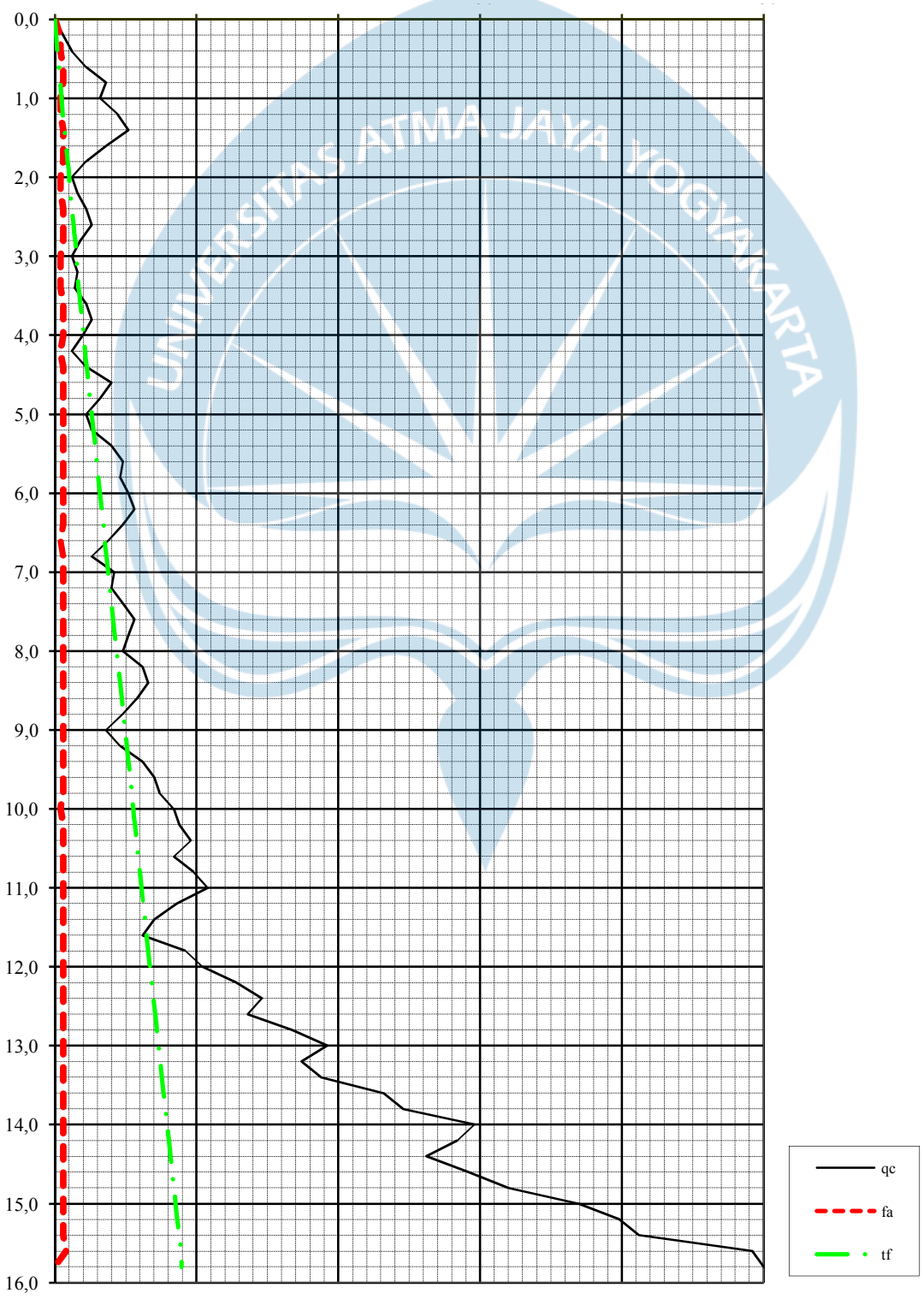
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 2
Date :

Elevation : -1,00 m dari muka jalan
G.Water Depth : -3,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 3
ELEVATION : -1,00 m dari muka jalan
G.WATER DEPTH : -3,00 meter dari muka tanah

WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0,00	0	0	0,00								
0,20	2	4	0,20	4	4	10,20	39	42	0,30	6	280
0,40	4	6	0,20	4	8	10,40	34	37	0,30	6	286
0,60	7	9	0,20	4	12	10,60	41	44	0,30	6	292
0,80	12	15	0,30	6	18	10,80	46	49	0,30	6	298
1,00	16	19	0,30	6	24	11,00	63	66	0,30	6	304
1,20	24	27	0,30	6	30	11,20	58	61	0,30	6	310
1,40	18	21	0,30	6	36	11,40	64	67	0,30	6	316
1,60	14	17	0,30	6	42	11,60	72	75	0,30	6	322
1,80	10	13	0,30	6	48	11,80	74	77	0,30	6	328
2,00	7	9	0,20	4	52	12,00	86	89	0,30	6	334
2,20	4	6	0,20	4	56	12,20	78	81	0,30	6	340
2,40	5	7	0,20	4	60	12,40	84	87	0,30	6	346
2,60	8	10	0,20	4	64	12,60	92	95	0,30	6	352
2,80	11	14	0,30	6	70	12,80	103	106	0,30	6	358
3,00	9	11	0,20	4	74	13,00	115	118	0,30	6	364
3,20	6	8	0,20	4	78	13,20	124	127	0,30	6	370
3,40	8	10	0,20	4	82	13,40	120	123	0,30	6	376
3,60	12	15	0,30	6	88	13,60	126	129	0,30	6	382
3,80	11	14	0,30	6	94	13,80	135	138	0,30	6	388
4,00	6	8	0,20	4	98	14,00	141	144	0,30	6	394
4,20	13	16	0,30	6	104	14,20	169	172	0,30	6	400
4,40	15	18	0,30	6	110	14,40	153	156	0,30	6	406
4,60	14	17	0,30	6	116	14,60	164	167	0,30	6	412
4,80	11	14	0,30	6	122	14,80	178	181	0,30	6	418
5,00	8	10	0,20	4	126	15,00	196	199	0,30	6	424
5,20	10	13	0,30	6	132	15,20	214	217	0,30	6	430
5,40	14	17	0,30	6	138	15,40	246	250	0,40	8	438
5,60	18	21	0,30	6	144	15,60	250	250	0,00	0	438
5,80	16	18	0,20	4	148	15,80					
6,00	24	27	0,30	6	154	16,00					
6,20	26	29	0,30	6	160	16,20					
6,40	32	35	0,30	6	166	16,40					
6,60	25	28	0,30	6	172	16,60					
6,80	23	26	0,30	6	178	16,80					
7,00	18	21	0,30	6	184	17,00					
7,20	20	23	0,30	6	190	17,20					
7,40	16	19	0,30	6	196	17,40					
7,60	22	25	0,30	6	202	17,60					
7,80	26	29	0,30	6	208	17,80					
8,00	31	34	0,30	6	214	18,00					
8,20	35	38	0,30	6	220	18,20					
8,40	39	42	0,30	6	226	18,40					
8,60	40	43	0,30	6	232	18,60					
8,80	36	39	0,30	6	238	18,80					
9,00	34	37	0,30	6	244	19,00					
9,20	32	35	0,30	6	250	19,20					
9,40	33	36	0,30	6	256	19,40					
9,60	41	44	0,30	6	262	19,60					
9,80	46	49	0,30	6	268	19,80					
10,00	48	51	0,30	6	274	20,00					

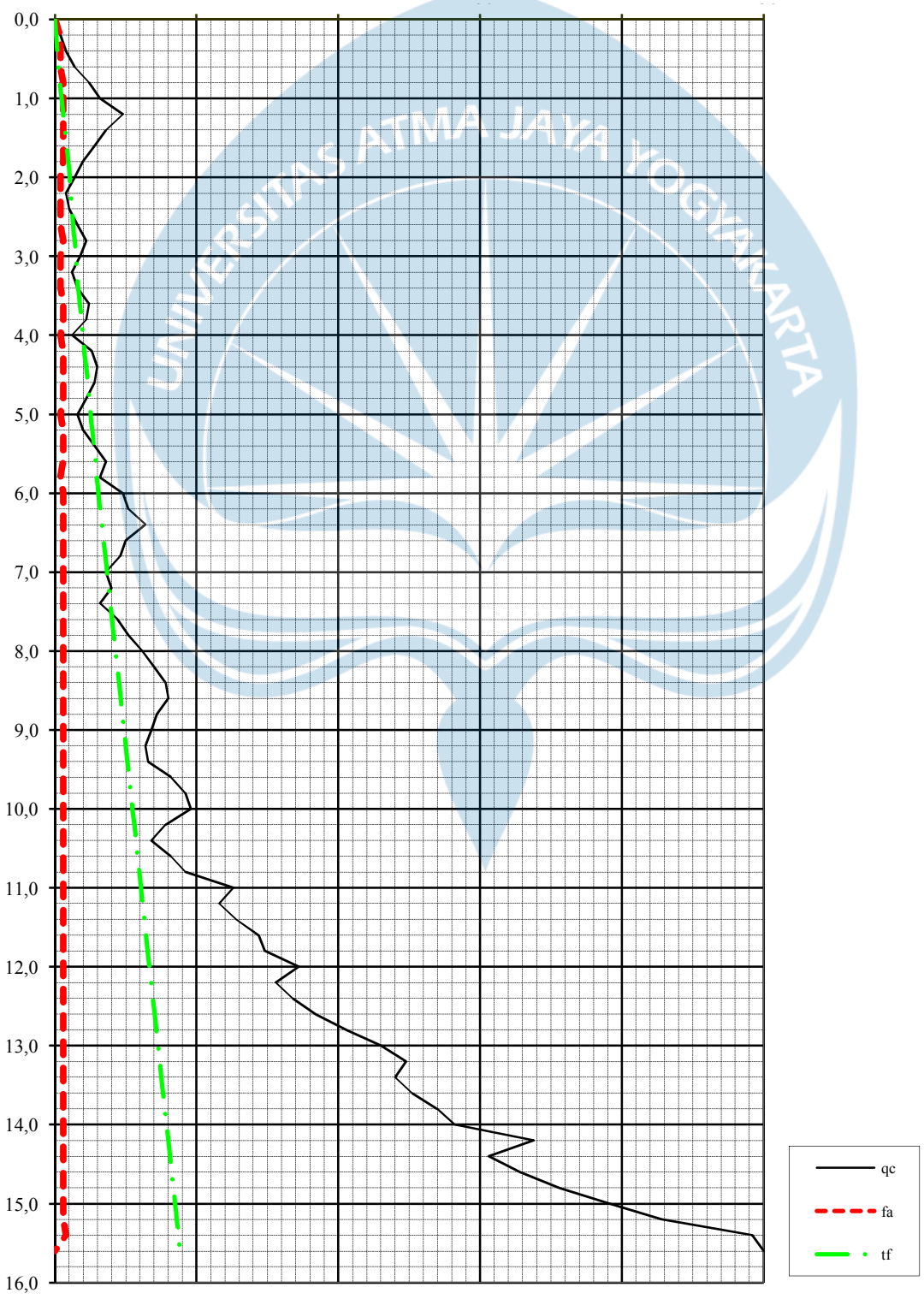
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 3
Date :

Elevation : -1,00 m dari muka jalan
G.Water Depth : -3,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 4
ELEVATION : -1,00 m dari muka jalan
G.WATER DEPTH : -3,00 meter dari muka tanah

WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0,00	0	0	0,00								
0,20	3	4	0,10	2	2	10,20	46	49	0,30	6	286
0,40	4	6	0,20	4	6	10,40	52	55	0,30	6	292
0,60	6	8	0,20	4	10	10,60	61	64	0,30	6	298
0,80	11	14	0,30	6	16	10,80	68	71	0,30	6	304
1,00	18	21	0,30	6	22	11,00	63	65	0,20	4	308
1,20	23	26	0,30	6	28	11,20	59	62	0,30	6	314
1,40	29	32	0,30	6	34	11,40	54	57	0,30	6	320
1,60	25	28	0,30	6	40	11,60	61	64	0,30	6	326
1,80	14	17	0,30	6	46	11,80	68	71	0,30	6	332
2,00	9	12	0,30	6	52	12,00	89	92	0,30	6	338
2,20	6	8	0,20	4	56	12,20	102	105	0,30	6	344
2,40	7	9	0,20	4	60	12,40	116	119	0,30	6	350
2,60	14	17	0,30	6	66	12,60	108	111	0,30	6	356
2,80	16	19	0,30	6	72	12,80	101	104	0,30	6	362
3,00	12	15	0,30	6	78	13,00	92	95	0,30	6	368
3,20	8	10	0,20	4	82	13,20	105	108	0,30	6	374
3,40	11	14	0,30	6	88	13,40	119	122	0,30	6	380
3,60	16	19	0,30	6	94	13,60	136	139	0,30	6	386
3,80	18	21	0,30	6	100	13,80	145	148	0,30	6	392
4,00	14	17	0,30	6	106	14,00	138	141	0,30	6	398
4,20	11	14	0,30	6	112	14,20	143	146	0,30	6	404
4,40	13	16	0,30	6	118	14,40	156	159	0,30	6	410
4,60	10	13	0,30	6	124	14,60	163	165	0,20	4	414
4,80	8	10	0,20	4	128	14,80	179	182	0,30	6	420
5,00	6	8	0,20	4	132	15,00	191	194	0,30	6	426
5,20	7	9	0,20	4	136	15,20	225	228	0,30	6	432
5,40	10	13	0,30	6	142	15,40	246	250	0,40	8	440
5,60	14	17	0,30	6	148	15,60	250	250	0,00	0	440
5,80	19	22	0,30	6	154	15,80					
6,00	21	24	0,30	6	160	16,00					
6,20	26	29	0,30	6	166	16,20					
6,40	23	26	0,30	6	172	16,40					
6,60	21	24	0,30	6	178	16,60					
6,80	24	27	0,30	6	184	16,80					
7,00	16	19	0,30	6	190	17,00					
7,20	14	17	0,30	6	196	17,20					
7,40	12	15	0,30	6	202	17,40					
7,60	17	20	0,30	6	208	17,60					
7,80	24	27	0,30	6	214	17,80					
8,00	28	31	0,30	6	220	18,00					
8,20	36	39	0,30	6	226	18,20					
8,40	43	46	0,30	6	232	18,40					
8,60	48	51	0,30	6	238	18,60					
8,80	44	47	0,30	6	244	18,80					
9,00	35	38	0,30	6	250	19,00					
9,20	41	44	0,30	6	256	19,20					
9,40	49	52	0,30	6	262	19,40					
9,60	63	66	0,30	6	268	19,60					
9,80	54	57	0,30	6	274	19,80					
10,00	52	55	0,30	6	280	20,00					

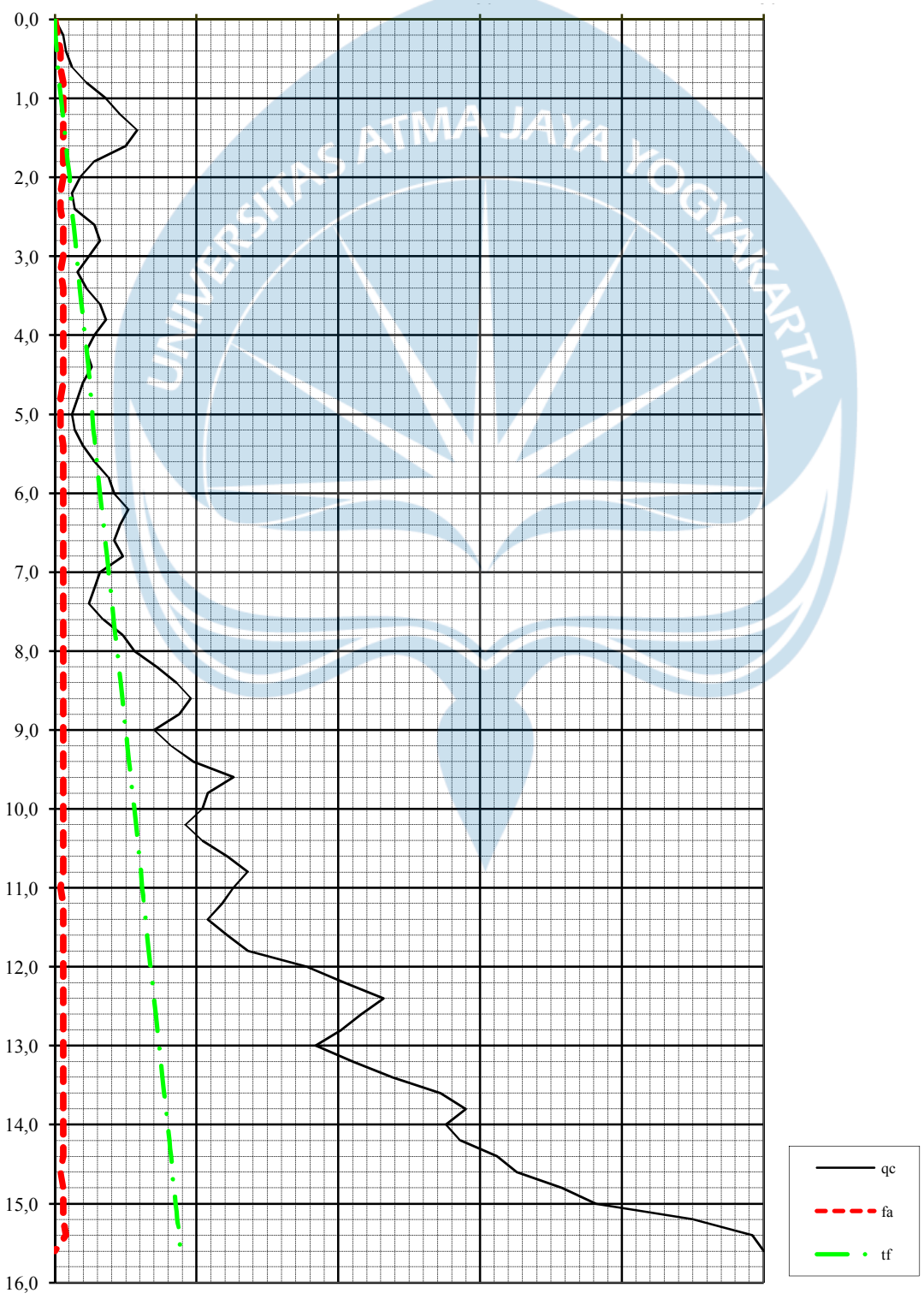
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 4
Date :

Elevation : -1,00 m dari muka jalan
G.Water Depth : -3,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



SOIL MECHANIC LABORATORY
CIVIL ENGINEERING PROGRAM
FACULTY OF ENGINEERING, UAJY
44 BABARSARI STREET, YOGYAKARTA 55281
Tel: +62-274-487711 ext. 1055
Fax: +62-274-487748

Boring Number:

BH-1

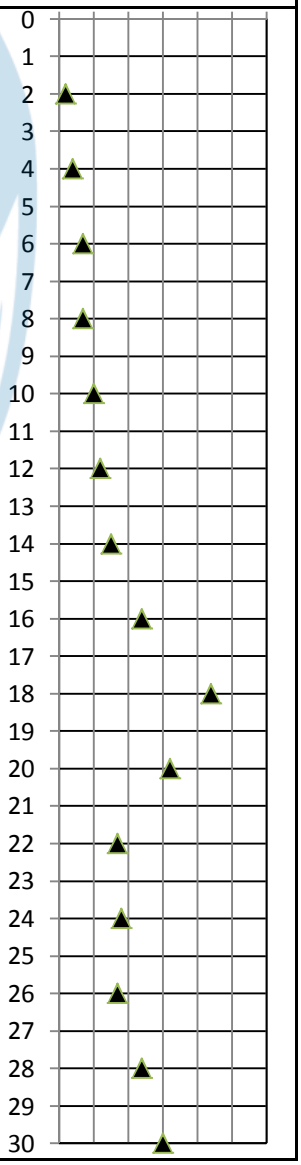
BOR LOG

DATE STARTED:
DATE COMPLETED :
DRILLING CONTRACTOR:
DRILLING METHOD: ROTARY SPINDLE, SKID MOUNTED TYPE
LOGGED BY:
CHECKED BY:

GROUND ELEVATION : -1,00 m from road level
HOLE SIZE : 7.295cm
GROUND WATER LEVEL : - 3,00 m from ground level
WEATHER CONDITION : FINE
ESTIMATED SEASONAL HIGH : -

Depth (m)	Graph Log	Material Description (field observations)	Contact Depth (m)	Sample Number	Blow Counts (N Value) N1	N2	N3	NV	Water Level Elevation (m)
1									
2					1	1	1	2	
3		Lanau (hitam)	6						-3.00
4					1	1	3	4	
5				I					
6					2	2	5	7	
7									
8					2	4	3	7	
9									
10		Lanau (hijau)	8	II	2	4	6	10	
11									
12					3	6	6	12	
13									
14					3	7	8	15	
15									
16		Pasir halus (coklat, abu-abu)	5		6	9	15	24	
17									
18					6	11	33	44	
19									
20					7	11	21	32	
21									
22					6	8	9	17	
23									
24					7	6	12	18	
25		Pasir (coklat, abu-abu)	11						
26					6	7	10	17	
27									
28					6	12	12	24	
29									
30					8	12	18	30	

SPT Value



Catatan: Pada pengamatan di lapangan, lanau bisa tampak seperti pasir halus atau pasir sangat halus

Laboratorium Mekanika Tanah
UNIVERSITAS ATMA JAYA YOGYAKARTA
Fakultas Teknik - Program Studi Teknik Sipil
Jl. Babarsari No. 44 Yogyakarta 55281 Indonesia
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

REKAP HASIL PENGUJIAN TANAH

Proyek :
Lokasi :
Tanggal :

Titik	Kedalaman (m)	Kadar Air (%)	Berat Jenis (G)	γ_b (gr/cm^3)	γ_k (gr/cm^3)	Pengujian Geser Langsung	
						c (kg/cm^2)	θ˚
BH 1	5,00	48,77	2,37	1,52	1,02	0,00	12,61
	10,00	48,54	2,38	1,51	1,02	0,00	12,40

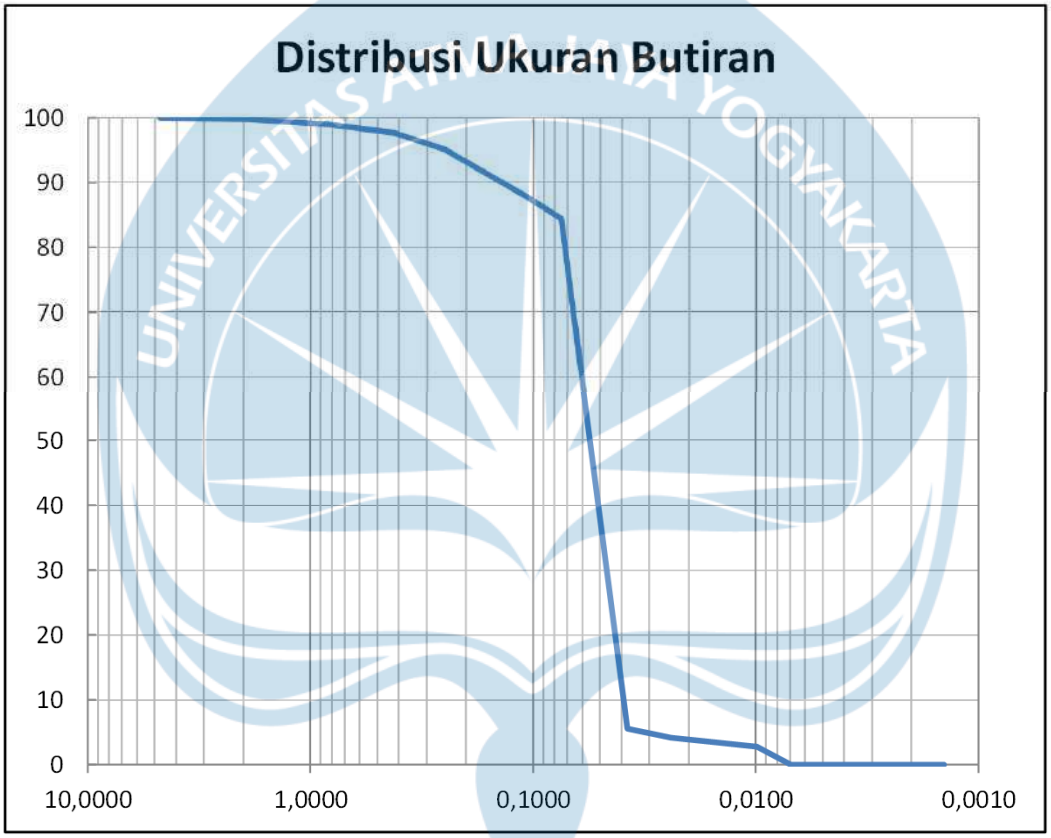
Lab. Mekanika Tanah FT-UAJY,
Staf,

Laboratorium Mekanika Tanah
UNIVERSITAS ATMA JAYA YOGYAKARTA
Fakultas Teknik - Program Studi Teknik Sipil
Jl. Babarsari No. 44 Yogyakarta 55281 Indonesia
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH 1
Kedalaman: 5



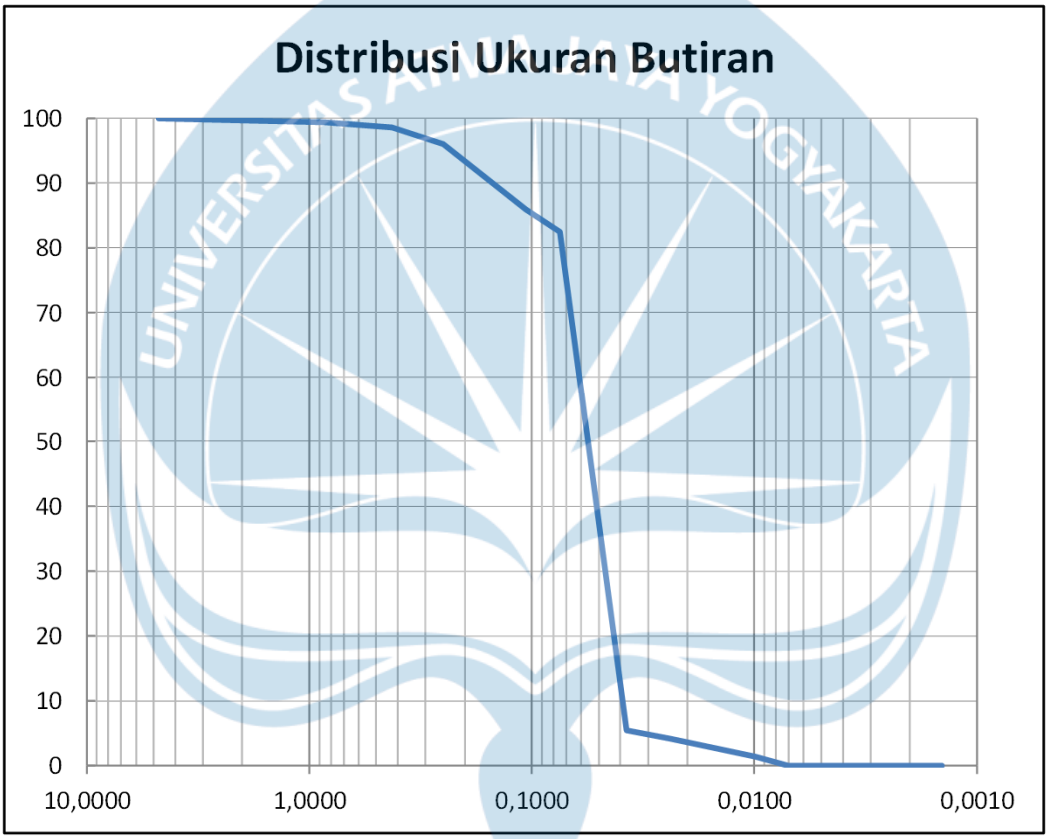
No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4,750	0,00	100,00	100,00
10	2,000	0,17	99,83	99,83
20	0,850	0,85	98,98	98,98
40	0,425	1,28	97,70	97,70
60	0,250	2,54	95,16	95,16
140	0,106	7,44	87,72	87,72
200	0,075	3,27	84,45	84,45
Pan		84,45		

Laboratorium Mekanika Tanah
UNIVERSITAS ATMA JAYA YOGYAKARTA
Fakultas Teknik - Program Studi Teknik Sipil
Jl. Babarsari No. 44 Yogyakarta 55281 Indonesia
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH 1
Kedalaman: 10



No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4,750	0,00	100,00	100,00
10	2,000	0,27	99,73	99,73
20	0,850	0,36	99,37	99,37
40	0,425	0,79	98,58	98,58
60	0,250	2,51	96,07	96,07
140	0,106	10,13	85,94	85,94
200	0,075	3,49	82,45	82,45
Pan		82,45		

SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 1
ELEVATION : +0,40 m dari muka jalan
G.WATER DEPTH : -7,00 meter dari muka tanah

DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0.00	0	0	0.00								
0.20	5	10	0.50	10	10	10.20	8	17	0.90	18	882
0.40	11	16	0.50	10	20	10.40	13	22	0.90	18	900
0.60	19	29	1.00	20	40	10.60	15	26	1.10	22	922
0.80	50	59	0.90	18	58	10.80	17	28	1.10	22	944
1.00	21	32	1.10	22	80	11.00	14	23	0.90	18	962
1.20	16	24	0.80	16	96	11.20	10	18	0.80	16	978
1.40	18	25	0.70	14	110	11.40	12	21	0.90	18	996
1.60	15	23	0.80	16	126	11.60	6	14	0.80	16	1012
1.80	13	29	1.60	32	158	11.80	16	27	1.10	22	1034
2.00	20	33	1.30	26	184	12.00	11	22	1.10	22	1056
2.20	22	35	1.30	26	210	12.20	15	24	0.90	18	1074
2.40	13	24	1.10	22	232	12.40	20	32	1.20	24	1098
2.60	19	32	1.30	26	258	12.60	22	33	1.10	22	1120
2.80	11	21	1.00	20	278	12.80	19	28	0.90	18	1138
3.00	8	18	1.00	20	298	13.00	26	38	1.20	24	1162
3.20	12	21	0.90	18	316	13.20	34	47	1.30	26	1188
3.40	15	24	0.90	18	334	13.40	30	39	0.90	18	1206
3.60	14	25	1.10	22	356	13.60	26	33	0.70	14	1220
3.80	7	16	0.90	18	374	13.80	21	30	0.90	18	1238
4.00	9	18	0.90	18	392	14.00	18	28	1.00	20	1258
4.20	16	24	0.80	16	408	14.20	43	51	0.80	16	1274
4.40	12	19	0.70	14	422	14.40	64	73	0.90	18	1292
4.60	8	15	0.70	14	436	14.60	92	101	0.90	18	1310
4.80	6	13	0.70	14	450	14.80	117	128	1.10	22	1332
5.00	10	19	0.90	18	468	15.00	168	176	0.80	16	1348
5.20	18	29	1.10	22	490	15.20	193	203	1.00	20	1368
5.40	14	22	0.80	16	506	15.40	219	228	0.90	18	1386
5.60	9	16	0.70	14	520	15.60	242	250	0.80	16	1402
5.80	7	14	0.70	14	534	15.80	250	250	0.00	0	1402
6.00	8	16	0.80	16	550	16.00					
6.20	11	20	0.90	18	568	16.20					
6.40	6	14	0.80	16	584	16.40					
6.60	9	18	0.90	18	602	16.60					
6.80	12	21	0.90	18	620	16.80					
7.00	18	27	0.90	18	638	17.00					
7.20	16	23	0.70	14	652	17.20					
7.40	12	21	0.90	18	670	17.40					
7.60	17	25	0.80	16	686	17.60					
7.80	19	27	0.80	16	702	17.80					
8.00	25	34	0.90	18	720	18.00					
8.20	7	16	0.90	18	738	18.20					
8.40	11	19	0.80	16	754	18.40					
8.60	8	15	0.70	14	768	18.60					
8.80	6	11	0.50	10	778	18.80					
9.00	5	9	0.40	8	786	19.00					
9.20	7	14	0.70	14	800	19.20					
9.40	13	21	0.80	16	816	19.40					
9.60	18	26	0.80	16	832	19.60					
9.80	15	22	0.70	14	846	19.80					
10.00	10	19	0.90	18	864	20.00					

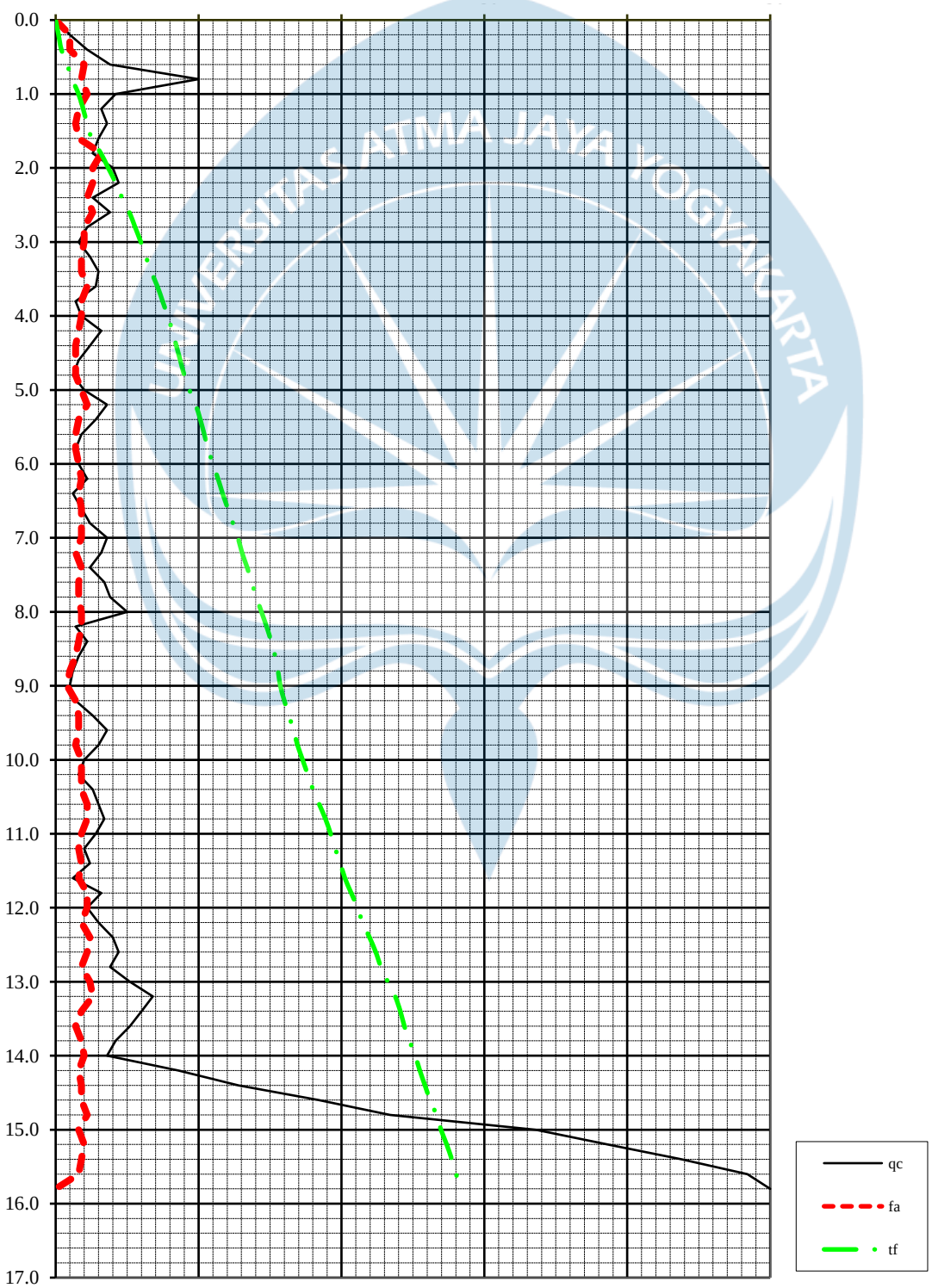
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 1
Date :

Elevation : +0,40 m dari muka jalan
G.Water Depth : -7,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 2
ELEVATION : +0,40 m dari muka jalan
G.WATER DEPTH : -7,00 meter dari muka tanah

DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0.00	0	0	0.00								
0.20	6	13	0.70	14	14	10.20	9	16	0.70	14	452
0.40	8	16	0.80	16	30	10.40	16	27	1.10	22	474
0.60	15	23	0.80	16	46	10.60	27	38	1.10	22	496
0.80	26	36	1.00	20	66	10.80	19	28	0.90	18	514
1.00	24	35	1.10	22	88	11.00	22	31	0.90	18	532
1.20	16	24	0.80	16	104	11.20	16	24	0.80	16	548
1.40	19	28	0.90	18	122	11.40	12	20	0.80	16	564
1.60	24	32	0.80	16	138	11.60	8	15	0.70	14	578
1.80	20	29	0.90	18	156	11.80	6	12	0.60	12	590
2.00	18	27	0.90	18	174	12.00	1	2	0.10	2	592
2.20	14	23	0.90	18	192	12.20	1	2	0.10	2	594
2.40	9	14	0.50	10	202	12.40	1	2	0.10	2	596
2.60	6	12	0.60	12	214	12.60	1	2	0.10	2	598
2.80	1	2	0.10	2	216	12.80	1	2	0.10	2	600
3.00	1	2	0.10	2	218	13.00	7	13	0.60	12	612
3.20	1	2	0.10	2	220	13.20	11	18	0.70	14	626
3.40	1	2	0.10	2	222	13.40	23	30	0.70	14	640
3.60	1	2	0.10	2	224	13.60	29	38	0.90	18	658
3.80	1	2	0.10	2	226	13.80	38	48	1.00	20	678
4.00	1	2	0.10	2	228	14.00	64	73	0.90	18	696
4.20	1	2	0.10	2	230	14.20	88	96	0.80	16	712
4.40	1	2	0.10	2	232	14.40	72	81	0.90	18	730
4.60	1	2	0.10	2	234	14.60	66	72	0.60	12	742
4.80	1	2	0.10	2	236	14.80	83	92	0.90	18	760
5.00	1	2	0.10	2	238	15.00	97	108	1.10	22	782
5.20	1	2	0.10	2	240	15.20	124	134	1.00	20	802
5.40	1	2	0.10	2	242	15.40	158	170	1.20	24	826
5.60	1	2	0.10	2	244	15.60	146	155	0.90	18	844
5.80	1	2	0.10	2	246	15.80	167	178	1.10	22	866
6.00	1	2	0.10	2	248	16.00	192	201	0.90	18	884
6.20	1	2	0.10	2	250	16.20	214	223	0.90	18	902
6.40	1	2	0.10	2	252	16.40	245	250	0.50	10	912
6.60	10	18	0.80	16	268	16.60	250	250	0.00	0	912
6.80	14	22	0.80	16	284	16.80					
7.00	19	27	0.80	16	300	17.00					
7.20	17	25	0.80	16	316	17.20					
7.40	21	31	1.00	20	336	17.40					
7.60	29	37	0.80	16	352	17.60					
7.80	34	42	0.80	16	368	17.80					
8.00	22	30	0.80	16	384	18.00					
8.20	14	21	0.70	14	398	18.20					
8.40	11	17	0.60	12	410	18.40					
8.60	8	15	0.70	14	424	18.60					
8.80	1	2	0.10	2	426	18.80					
9.00	1	2	0.10	2	428	19.00					
9.20	1	2	0.10	2	430	19.20					
9.40	1	2	0.10	2	432	19.40					
9.60	1	2	0.10	2	434	19.60					
9.80	1	2	0.10	2	436	19.80					
10.00	1	2	0.10	2	438	20.00					

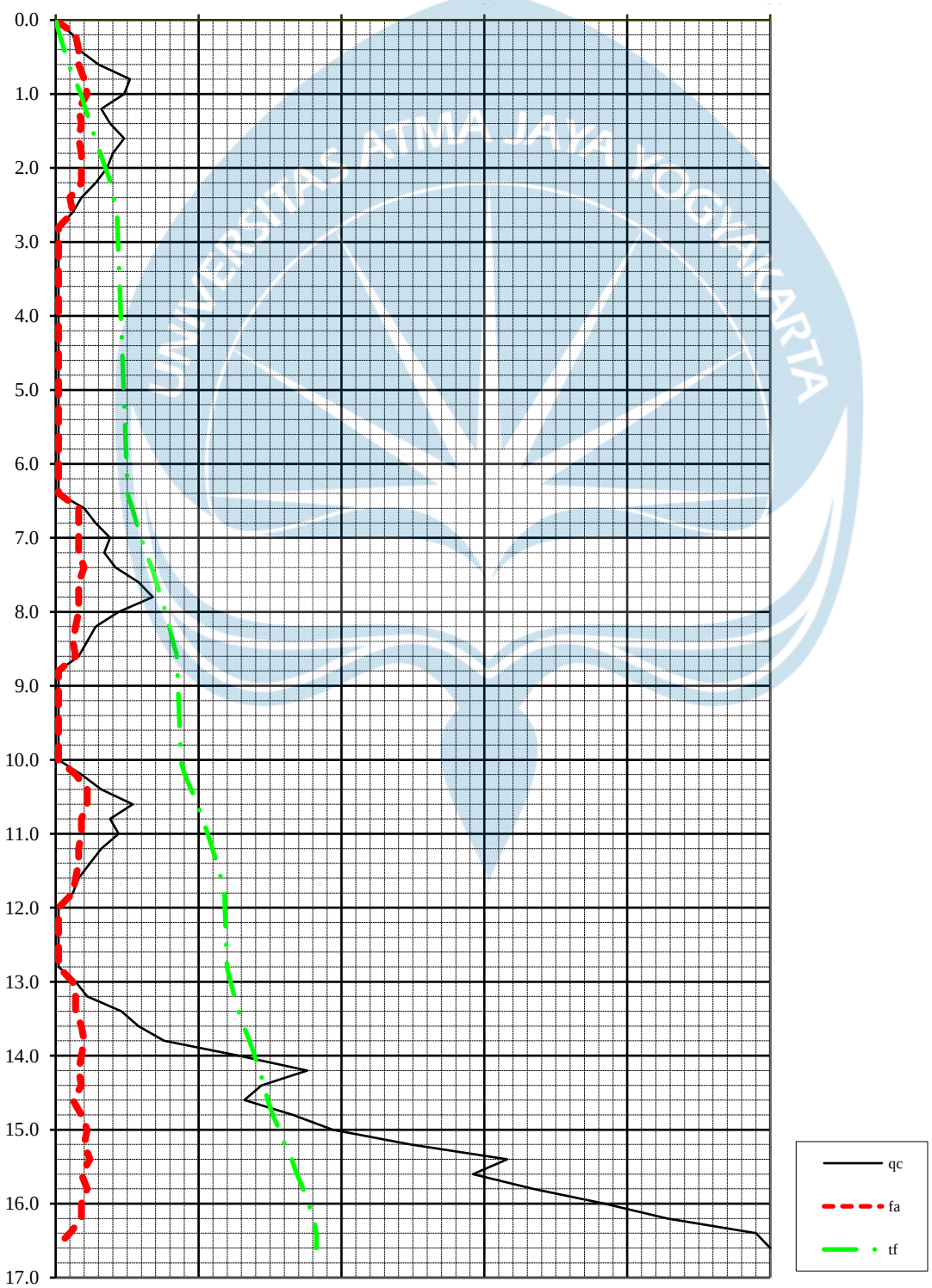
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 2
Date :

Elevation : +0,40 m dari muka jalan
G.Water Depth : -7,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 3
ELEVATION : +0,20 m dari muka jalan
G.WATER DEPTH : -7,00 meter dari muka tanah

DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0.00	0	0	0.00								
0.20	7	13	0.60	12	12	10.20	1	2	0.10	2	348
0.40	9	15	0.60	12	24	10.40	1	2	0.10	2	350
0.60	12	17	0.50	10	34	10.60	12	21	0.90	18	368
0.80	14	19	0.50	10	44	10.80	18	27	0.90	18	386
1.00	26	34	0.80	16	60	11.00	26	34	0.80	16	402
1.20	18	24	0.60	12	72	11.20	37	45	0.80	16	418
1.40	16	22	0.60	12	84	11.40	29	36	0.70	14	432
1.60	23	30	0.70	14	98	11.60	33	41	0.80	16	448
1.80	17	23	0.60	12	110	11.80	17	24	0.70	14	462
2.00	24	32	0.80	16	126	12.00	10	16	0.60	12	474
2.20	15	23	0.80	16	142	12.20	7	12	0.50	10	484
2.40	13	20	0.70	14	156	12.40	1	2	0.10	2	486
2.60	11	19	0.80	16	172	12.60	1	2	0.10	2	488
2.80	6	12	0.60	12	184	12.80	1	2	0.10	2	490
3.00	1	2	0.10	2	186	13.00	1	2	0.10	2	492
3.20	1	2	0.10	2	188	13.20	1	2	0.10	2	494
3.40	1	2	0.10	2	190	13.40	26	33	0.70	14	508
3.60	1	2	0.10	2	192	13.60	58	67	0.90	18	526
3.80	1	2	0.10	2	194	13.80	89	95	0.60	12	538
4.00	1	2	0.10	2	196	14.00	118	126	0.80	16	554
4.20	1	2	0.10	2	198	14.20	149	157	0.80	16	570
4.40	6	11	0.50	10	208	14.40	131	138	0.70	14	584
4.60	10	17	0.70	14	222	14.60	155	167	1.20	24	608
4.80	8	14	0.60	12	234	14.80	190	199	0.90	18	626
5.00	1	2	0.10	2	236	15.00	234	242	0.80	16	642
5.20	1	2	0.10	2	238	15.20	245	250	0.50	10	652
5.40	24	35	1.10	22	260	15.40	250	250	0.00	0	652
5.60	36	43	0.70	14	274	15.60					
5.80	18	25	0.70	14	288	15.80					
6.00	9	14	0.50	10	298	16.00					
6.20	5	10	0.50	10	308	16.20					
6.40	1	2	0.10	2	310	16.40					
6.60	1	2	0.10	2	312	16.60					
6.80	1	2	0.10	2	314	16.80					
7.00	1	2	0.10	2	316	17.00					
7.20	1	2	0.10	2	318	17.20					
7.40	1	2	0.10	2	320	17.40					
7.60	1	2	0.10	2	322	17.60					
7.80	1	2	0.10	2	324	17.80					
8.00	1	2	0.10	2	326	18.00					
8.20	1	2	0.10	2	328	18.20					
8.40	1	2	0.10	2	330	18.40					
8.60	1	2	0.10	2	332	18.60					
8.80	1	2	0.10	2	334	18.80					
9.00	1	2	0.10	2	336	19.00					
9.20	1	2	0.10	2	338	19.20					
9.40	1	2	0.10	2	340	19.40					
9.60	1	2	0.10	2	342	19.60					
9.80	1	2	0.10	2	344	19.80					
10.00	1	2	0.10	2	346	20.00					

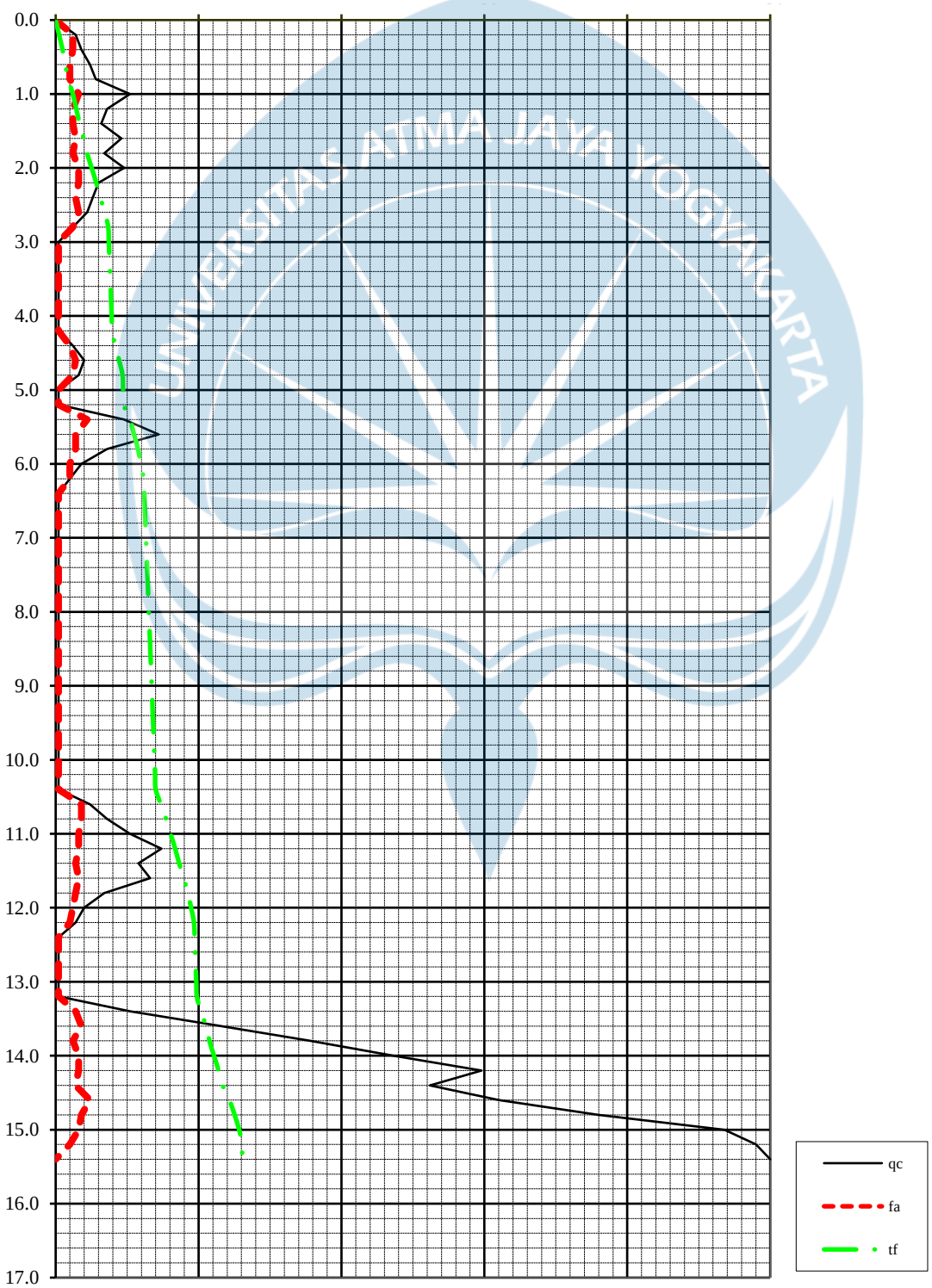
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 3
Date :

Elevation : +0,20 m dari muka jalan
G.Water Depth : -7,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 4
ELEVATION : +0,20 m dari muka jalan
G.WATER DEPTH : -7,00 meter dari muka tanah

DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0.00	0	0	0.00								
0.20	5	9	0.40	8	8	10.20	1	2	0.10	2	384
0.40	6	11	0.50	10	18	10.40	1	2	0.10	2	386
0.60	9	15	0.60	12	30	10.60	1	2	0.10	2	388
0.80	14	20	0.60	12	42	10.80	1	2	0.10	2	390
1.00	18	24	0.60	12	54	11.00	1	2	0.10	2	392
1.20	12	18	0.60	12	66	11.20	1	2	0.10	2	394
1.40	8	14	0.60	12	78	11.40	16	25	0.90	18	412
1.60	15	24	0.90	18	96	11.60	21	30	0.90	18	430
1.80	21	29	0.80	16	112	11.80	26	34	0.80	16	446
2.00	26	34	0.80	16	128	12.00	35	46	1.10	22	468
2.20	14	22	0.80	16	144	12.20	27	38	1.10	22	490
2.40	11	18	0.70	14	158	12.40	32	43	1.10	22	512
2.60	7	12	0.50	10	168	12.60	41	52	1.10	22	534
2.80	1	2	0.10	2	170	12.80	24	35	1.10	22	556
3.00	1	2	0.10	2	172	13.00	16	24	0.80	16	572
3.20	1	2	0.10	2	174	13.20	12	20	0.80	16	588
3.40	1	2	0.10	2	176	13.40	8	15	0.70	14	602
3.60	1	2	0.10	2	178	13.60	15	26	1.10	22	624
3.80	1	2	0.10	2	180	13.80	47	59	1.20	24	648
4.00	1	2	0.10	2	182	14.00	73	84	1.10	22	670
4.20	1	2	0.10	2	184	14.20	64	73	0.90	18	688
4.40	1	2	0.10	2	186	14.40	58	66	0.80	16	704
4.60	1	2	0.10	2	188	14.60	97	106	0.90	18	722
4.80	8	15	0.70	14	202	14.80	139	147	0.80	16	738
5.00	13	21	0.80	16	218	15.00	153	163	1.00	20	758
5.20	19	28	0.90	18	236	15.20	176	186	1.00	20	778
5.40	24	33	0.90	18	254	15.40	199	212	1.30	26	804
5.60	36	45	0.90	18	272	15.60	223	231	0.80	16	820
5.80	43	52	0.90	18	290	15.80	244	250	0.60	12	832
6.00	38	47	0.90	18	308	16.00	250	250	0.00	0	832
6.20	14	22	0.80	16	324	16.20					
6.40	8	14	0.60	12	336	16.40					
6.60	5	11	0.60	12	348	16.60					
6.80	1	2	0.10	2	350	16.80					
7.00	1	2	0.10	2	352	17.00					
7.20	1	2	0.10	2	354	17.20					
7.40	1	2	0.10	2	356	17.40					
7.60	1	2	0.10	2	358	17.60					
7.80	1	2	0.10	2	360	17.80					
8.00	1	2	0.10	2	362	18.00					
8.20	1	2	0.10	2	364	18.20					
8.40	1	2	0.10	2	366	18.40					
8.60	1	2	0.10	2	368	18.60					
8.80	1	2	0.10	2	370	18.80					
9.00	1	2	0.10	2	372	19.00					
9.20	1	2	0.10	2	374	19.20					
9.40	1	2	0.10	2	376	19.40					
9.60	1	2	0.10	2	378	19.60					
9.80	1	2	0.10	2	380	19.80					
10.00	1	2	0.10	2	382	20.00					

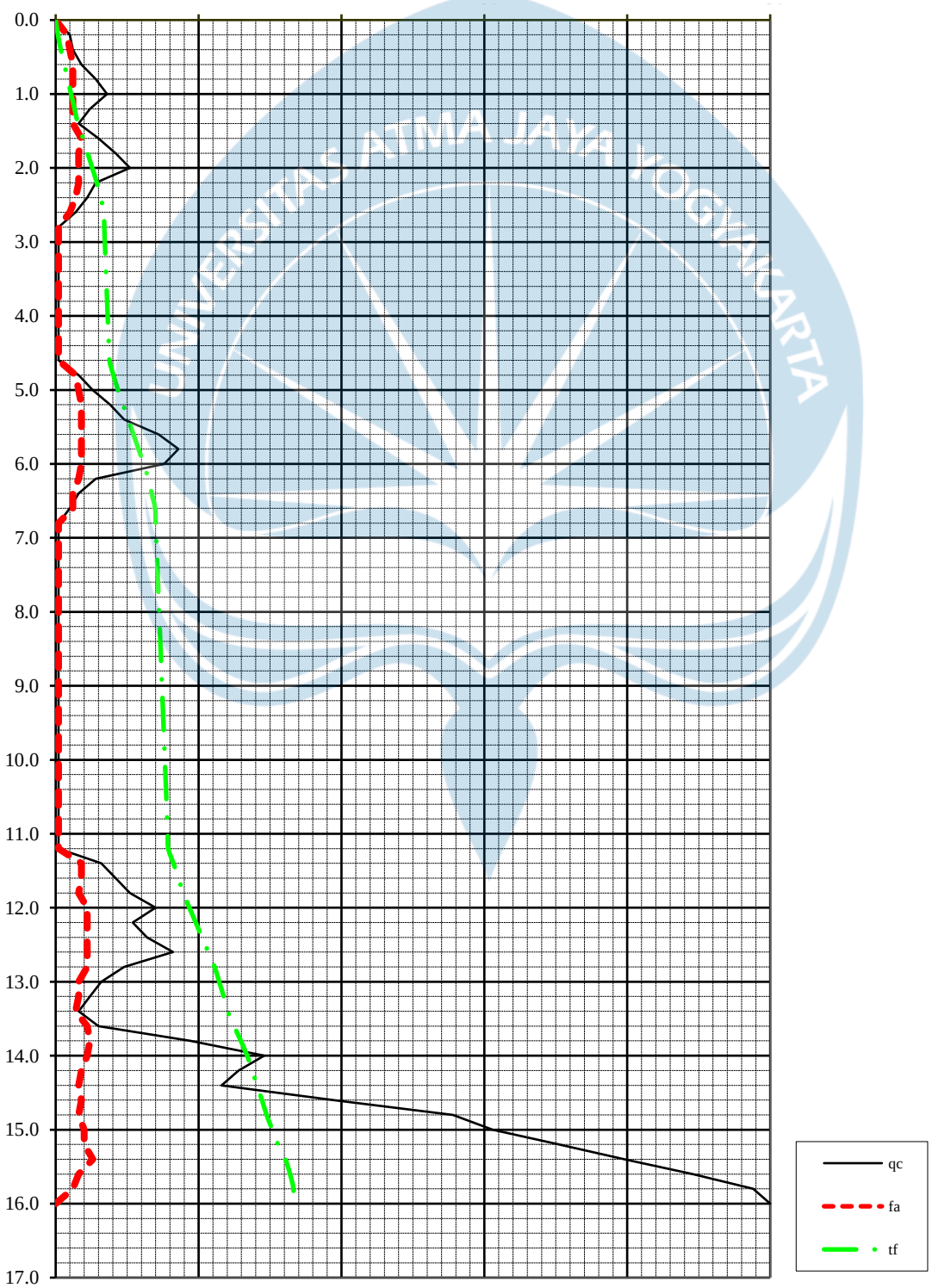
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 4
Date :

Elevation : +0,20 m dari muka jalan
G.Water Depth : -7,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



4

SOIL MECHANIC LABORATORY
CIVIL ENGINEERING PROGRAM
FACULTY OF ENGINEERING, UAJY
44 BABARSARI STREET, YOGYAKARTA 55281
Tel: +62-274-487711 ext. 2052
Fax: +62-274-487748

Boring Number:

BH-1

BOR LOG

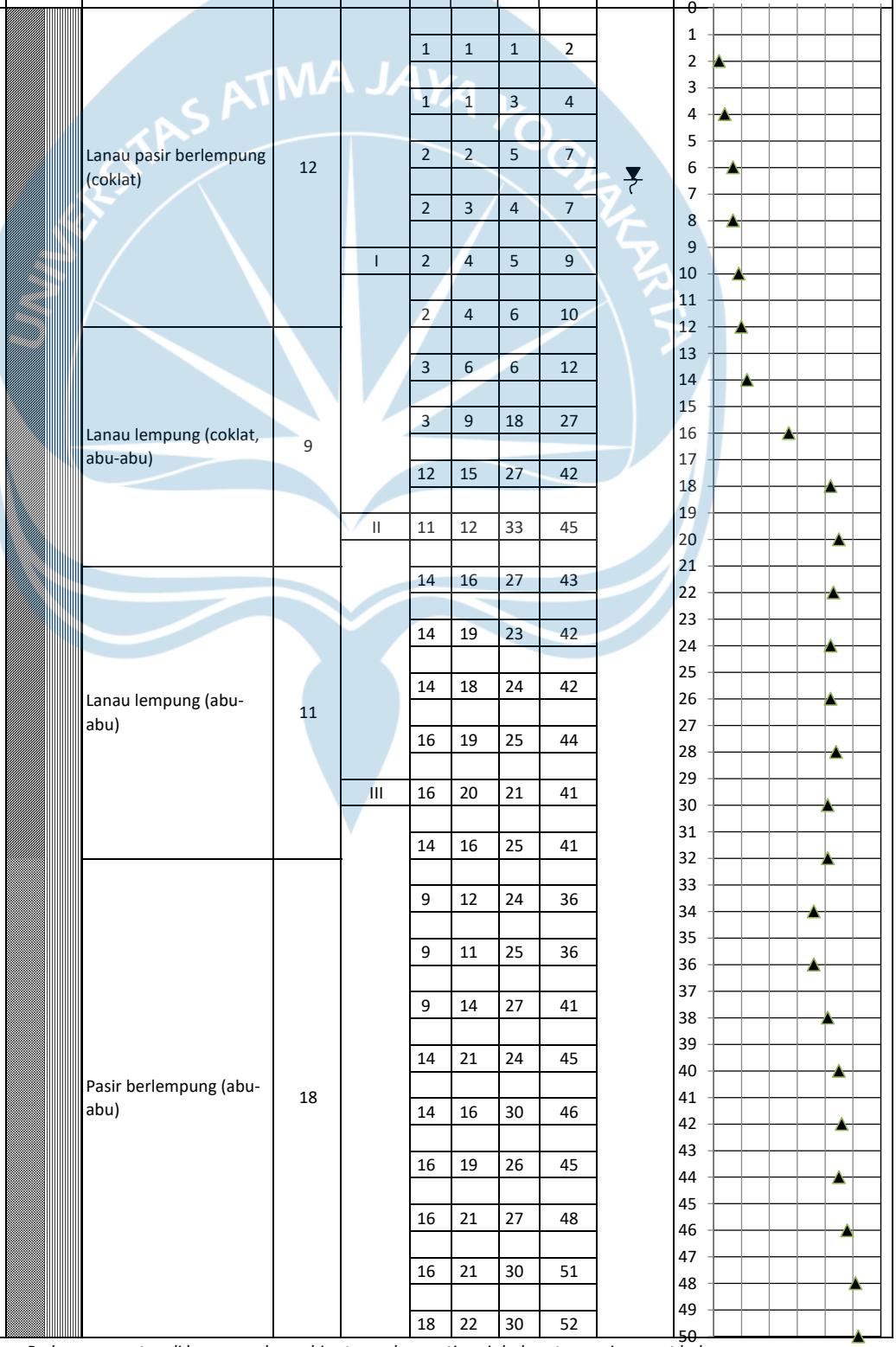
PROJECT TITLE :

PROJECT LOCATION :

DATE STARTED:
DATE COMPLETED :
DRILLING CONTRACTOR:
DRILLING METHOD: ROTARY SPINDLE, SKID MOUNTED TYPE
LOGGED BY:
CHECKED BY:

GROUND ELEVATION : + 0,20 m from road level
HOLE SIZE : 7.295cm
GROUND WATER LEVEL : -7,00 m from ground level
WEATHER CONDITION : FINE
ESTIMATED SEASONAL HIGH : -

Depth (m)	Material Description (field observations)	Contact Depth (m)	Sample Number	Blow Counts (N Value) N1	N2	N3	Nv	Water Level Elevation (m)
1								
2				1	1	1	2	
3								
4				1	1	3	4	
5								
6	Lanau pasir berlempung (coklat)	12		2	2	5	7	
7								
8				2	3	4	7	
9								
10			I	2	4	5	9	
11								
12				2	4	6	10	
13								
14				3	6	6	12	
15								
16	Lanau lempung (coklat, abu-abu)	9		3	9	18	27	
17								
18				12	15	27	42	
19								
20			II	11	12	33	45	
21								
22				14	16	27	43	
23								
24				14	19	23	42	
25								
26	Lanau lempung (abu-abu)	11		14	18	24	42	
27								
28				16	19	25	44	
29								
30			III	16	20	21	41	
31								
32				14	16	25	41	
33								
34				9	12	24	36	
35								
36				9	11	25	36	
37								
38				9	14	27	41	
39								
40				14	21	24	45	
41	Pasir berlempung (abu-abu)	18						
42				14	16	30	46	
43								
44				16	19	26	45	
45								
46				16	21	27	48	
47								
48				16	21	30	51	
49								
50				18	22	30	52	



Catatan: Pada pengamatan di lapangan, lanau bisa tampak seperti pasir halus atau pasir sangat halus

Laboratorium Mekanika Tanah
UNIVERSITAS ATMA JAYA YOGYAKARTA
Fakultas Teknik - Program Studi Teknik Sipil
Jl. Babarsari No. 44 Yogyakarta 55281 Indonesia
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

REKAP HASIL PENGUJIAN TANAH

Proyek :
Lokasi :
Tanggal :

Titik	Kedalaman (m)	Kadar Air (%)	Berat Jenis (G)	γ_b (gr/cm^3)	γ_k (gr/cm^3)	Pengujian Geser Langsung	
						c (kg/cm^2)	θ°
BH 1	10.00	39.34	2.46	1.56	1.12	0.02	13.11
	20.00	58.60	2.39	1.48	0.93	0.02	20.31
	30.00	31.05	2.50	1.58	1.21	0.09	20.24

Laboratorium Mekanika Tanah
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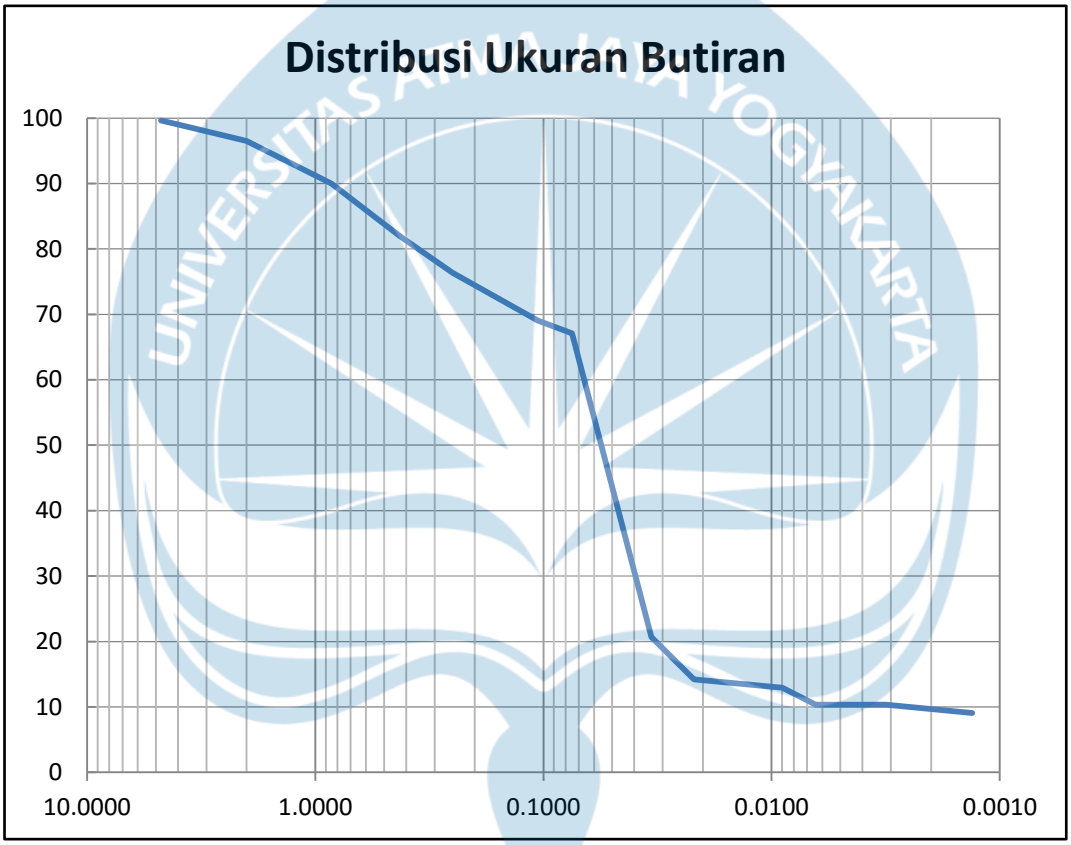
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH 1
Kedalaman : 10.00



No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4.750	0.4	99.6	99.62
10	2.000	3.1	96.5	96.50
20	0.850	6.5	90.01	90.01
40	0.425	8.1	81.94	81.94
60	0.250	5.6	76.33	76.33
140	0.106	7.3	69.08	69.08
200	0.075	2.0	67.09	67.09
Pan		47.39		

Laboratorium Mekanika Tanah
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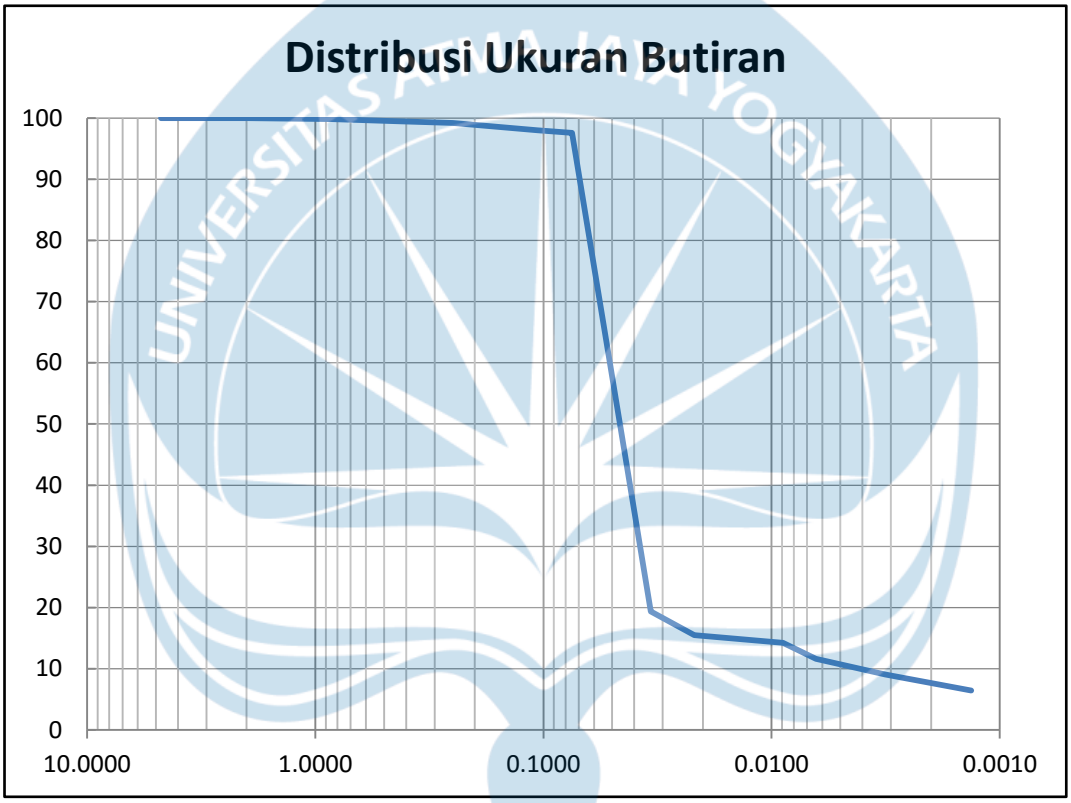
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH 1
Kedalaman : 20.00



No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4.750	0.0	100.0	100.00
10	2.000	0.0	100.0	100.00
20	0.850	0.2	99.82	99.82
40	0.425	0.4	99.44	99.44
60	0.250	0.2	99.21	99.21
140	0.106	1.2	97.98	97.98
200	0.075	0.4	97.6	97.60
Pan		77.90		

Laboratorium Mekanika Tanah
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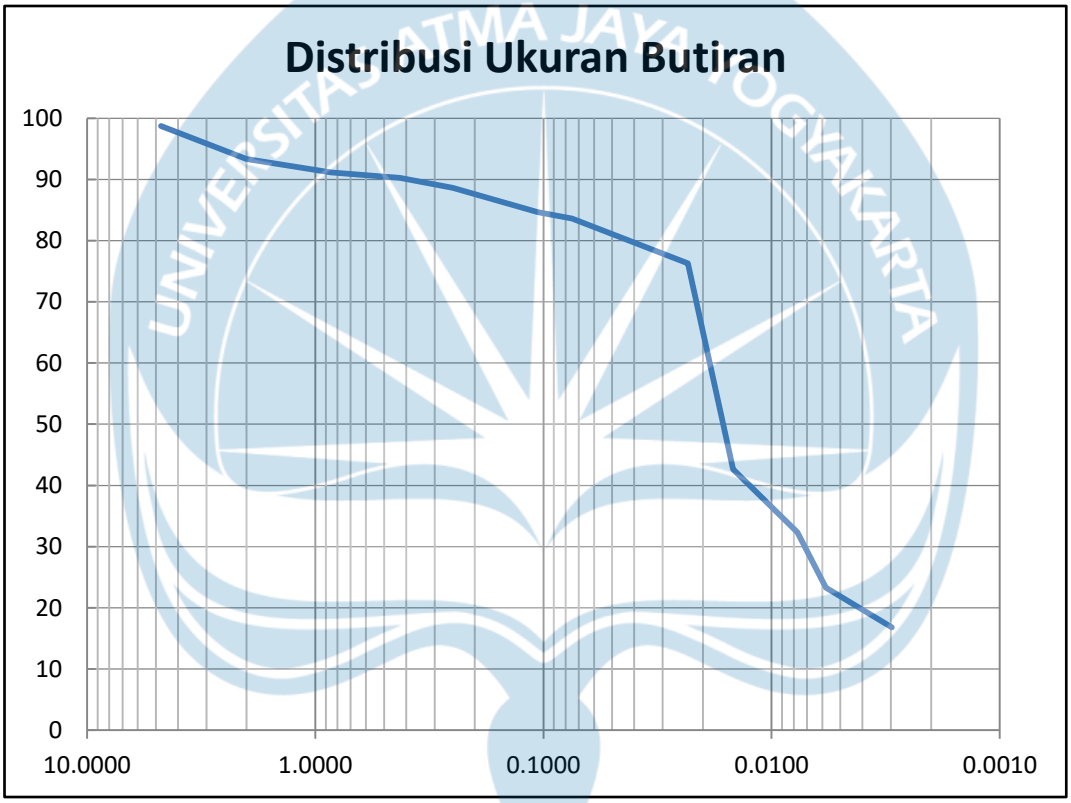
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH 1
Kedalaman : 30.00



No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4.750	1.3	98.7	98.72
10	2.000	5.4	93.3	93.33
20	0.850	2.2	91.15	91.15
40	0.425	0.9	90.26	90.26
60	0.250	1.6	88.62	88.62
140	0.106	4.0	84.66	84.66
200	0.075	1.1	83.61	83.61
Pan		63.91		

SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 1
ELEVATION : ±0,00 m dari muka jalan
G.WATER DEPTH : -7,00 meter dari muka tanah

DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0,00	0	0	0,00								
0,20	3	5	0,20	4	4	10,20					
0,40	8	10	0,20	4	8	10,40					
0,60	10	13	0,30	6	14	10,60					
0,80	19	22	0,30	6	20	10,80					
1,00	12	15	0,30	6	26	11,00					
1,20	11	14	0,30	6	32	11,20					
1,40	14	17	0,30	6	38	11,40					
1,60	9	11	0,20	4	42	11,60					
1,80	6	8	0,20	4	46	11,80					
2,00	13	16	0,30	6	52	12,00					
2,20	17	20	0,30	6	58	12,20					
2,40	9	11	0,20	4	62	12,40					
2,60	23	26	0,30	6	68	12,60					
2,80	18	21	0,30	6	74	12,80					
3,00	16	19	0,30	6	80	13,00					
3,20	12	15	0,30	6	86	13,20					
3,40	10	13	0,30	6	92	13,40					
3,60	7	9	0,20	4	96	13,60					
3,80	14	17	0,30	6	102	13,80					
4,00	13	16	0,30	6	108	14,00					
4,20	8	10	0,20	4	112	14,20					
4,40	11	14	0,30	6	118	14,40					
4,60	9	11	0,20	4	122	14,60					
4,80	6	8	0,20	4	126	14,80					
5,00	12	15	0,30	6	132	15,00					
5,20	19	22	0,30	6	138	15,20					
5,40	17	20	0,30	6	144	15,40					
5,60	14	17	0,30	6	150	15,60					
5,80	12	15	0,30	6	156	15,80					
6,00	26	29	0,30	6	162	16,00					
6,20	13	16	0,30	6	168	16,20					
6,40	8	10	0,20	4	172	16,40					
6,60	5	7	0,20	4	176	16,60					
6,80	9	11	0,20	4	180	16,80					
7,00	12	15	0,30	6	186	17,00					
7,20	18	21	0,30	6	192	17,20					
7,40	24	27	0,30	6	198	17,40					
7,60	32	35	0,30	6	204	17,60					
7,80	78	81	0,30	6	210	17,80					
8,00	169	172	0,30	6	216	18,00					
8,20	246	250	0,40	8	224	18,20					
8,40	250	250	0,00	0	224	18,40					
8,60						18,60					
8,80						18,80					
9,00						19,00					
9,20						19,20					
9,40						19,40					
9,60						19,60					
9,80						19,80					
10,00						20,00					

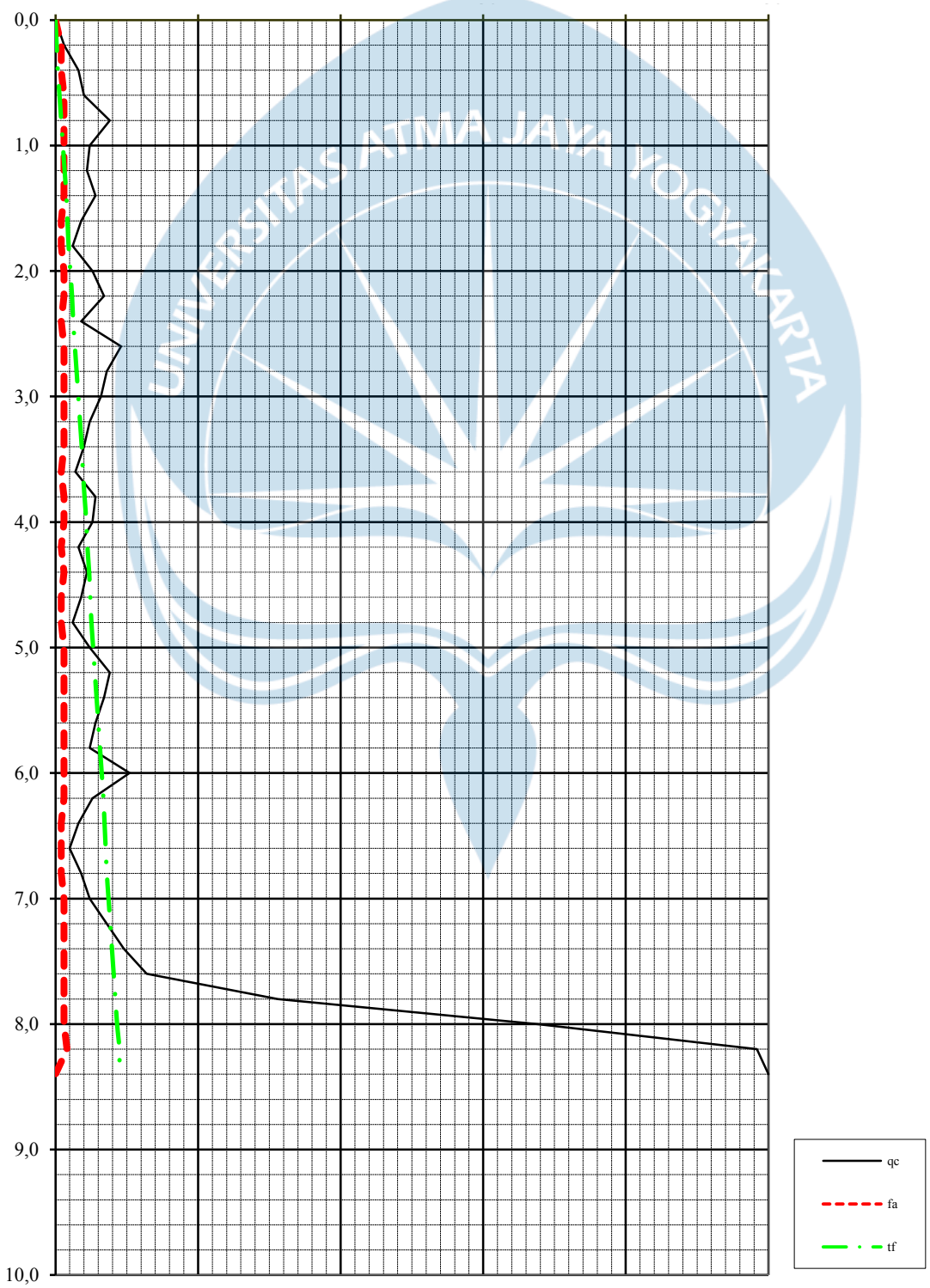
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 1
Date :

Elevation : ±0,00 m dari muka jalan
G.Water Depth : -7,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 2
ELEVATION : ±0,00 m dari muka jalan
G.WATER DEPTH : -7,00 meter dari muka tanah

DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0,00	0	0	0,00								
0,20	7	9	0,20	4	4	10,20					
0,40	15	18	0,30	6	10	10,40					
0,60	8	10	0,20	4	14	10,60					
0,80	12	15	0,30	6	20	10,80					
1,00	13	16	0,30	6	26	11,00					
1,20	16	19	0,30	6	32	11,20					
1,40	21	24	0,30	6	38	11,40					
1,60	18	21	0,30	6	44	11,60					
1,80	26	29	0,30	6	50	11,80					
2,00	17	20	0,30	6	56	12,00					
2,20	15	18	0,30	6	62	12,20					
2,40	8	10	0,20	4	66	12,40					
2,60	13	16	0,30	6	72	12,60					
2,80	18	21	0,30	6	78	12,80					
3,00	10	13	0,30	6	84	13,00					
3,20	11	14	0,30	6	90	13,20					
3,40	13	16	0,30	6	96	13,40					
3,60	15	18	0,30	6	102	13,60					
3,80	11	14	0,30	6	108	13,80					
4,00	9	11	0,20	4	112	14,00					
4,20	8	10	0,20	4	116	14,20					
4,40	16	19	0,30	6	122	14,40					
4,60	19	22	0,30	6	128	14,60					
4,80	12	15	0,30	6	134	14,80					
5,00	11	14	0,30	6	140	15,00					
5,20	18	21	0,30	6	146	15,20					
5,40	24	27	0,30	6	152	15,40					
5,60	22	25	0,30	6	158	15,60					
5,80	16	19	0,30	6	164	15,80					
6,00	9	11	0,20	4	168	16,00					
6,20	4	6	0,20	4	172	16,20					
6,40	12	15	0,30	6	178	16,40					
6,60	18	21	0,30	6	184	16,60					
6,80	23	26	0,30	6	190	16,80					
7,00	29	32	0,30	6	196	17,00					
7,20	24	27	0,30	6	202	17,20					
7,40	52	55	0,30	6	208	17,40					
7,60	103	105	0,20	4	212	17,60					
7,80	198	201	0,30	6	218	17,80					
8,00	246	250	0,40	8	226	18,00					
8,20	250	250	0,00	0	226	18,20					
8,40						18,40					
8,60						18,60					
8,80						18,80					
9,00						19,00					
9,20						19,20					
9,40						19,40					
9,60						19,60					
9,80						19,80					
10,00						20,00					

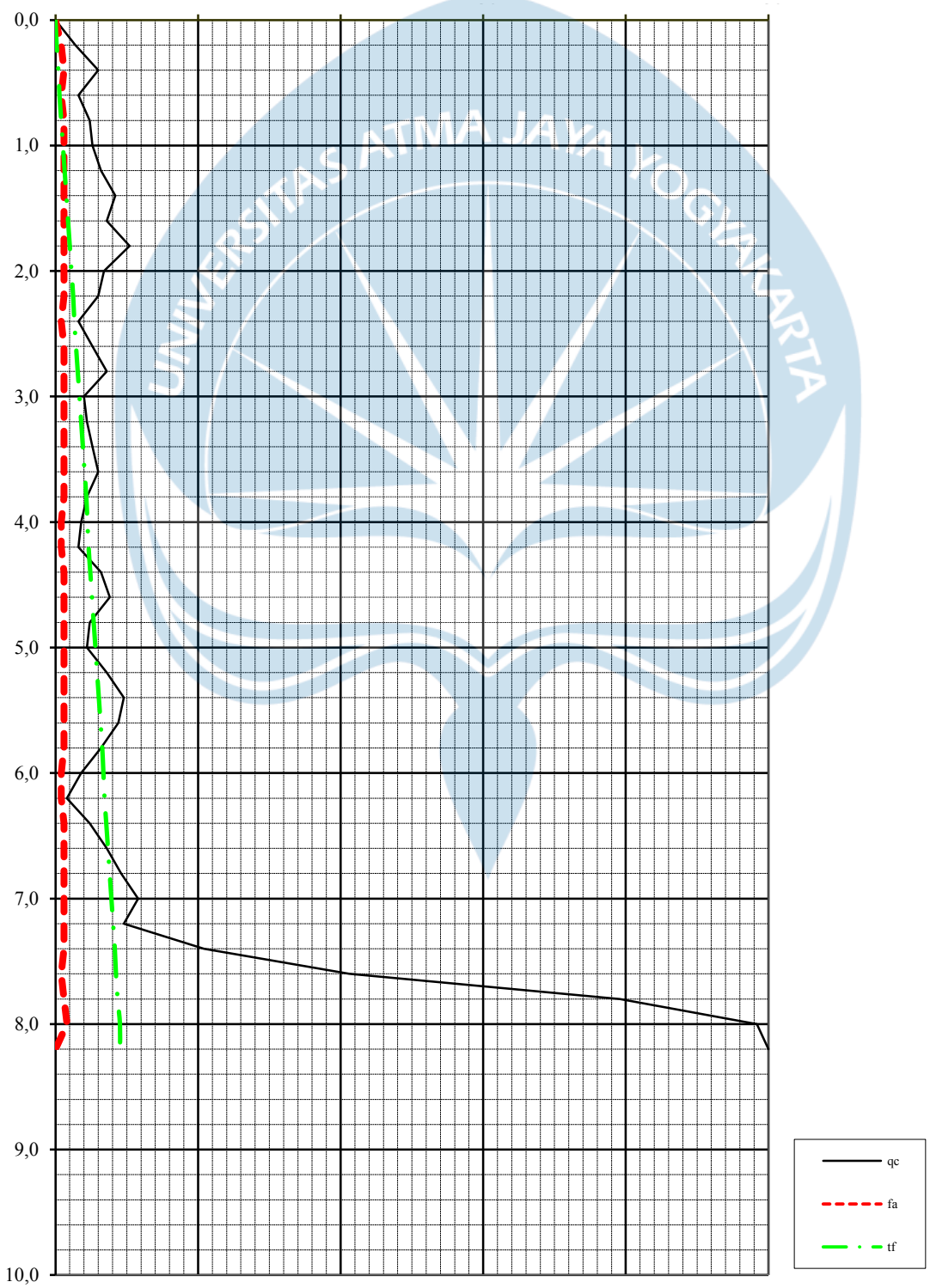
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 2
Date :

Elevation : ±0,00 m dari muka jalan
G.Water Depth : -7,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 3
ELEVATION : ±0,00 m dari muka jalan
G.WATER DEPTH : -7,00 meter dari muka tanah

DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0,00	0	0	0,00								
0,20	6	8	0,20	4	4	10,20					
0,40	14	17	0,30	6	10	10,40					
0,60	11	14	0,30	6	16	10,60					
0,80	16	19	0,30	6	22	10,80					
1,00	8	10	0,20	4	26	11,00					
1,20	12	15	0,30	6	32	11,20					
1,40	14	17	0,30	6	38	11,40					
1,60	15	18	0,30	6	44	11,60					
1,80	18	21	0,30	6	50	11,80					
2,00	29	32	0,30	6	56	12,00					
2,20	20	23	0,30	6	62	12,20					
2,40	16	19	0,30	6	68	12,40					
2,60	21	24	0,30	6	74	12,60					
2,80	17	20	0,30	6	80	12,80					
3,00	13	16	0,30	6	86	13,00					
3,20	11	14	0,30	6	92	13,20					
3,40	16	19	0,30	6	98	13,40					
3,60	18	21	0,30	6	104	13,60					
3,80	22	25	0,30	6	110	13,80					
4,00	15	18	0,30	6	116	14,00					
4,20	13	16	0,30	6	122	14,20					
4,40	22	25	0,30	6	128	14,40					
4,60	9	11	0,20	4	132	14,60					
4,80	5	7	0,20	4	136	14,80					
5,00	6	8	0,20	4	140	15,00					
5,20	12	15	0,30	6	146	15,20					
5,40	14	17	0,30	6	152	15,40					
5,60	10	13	0,30	6	158	15,60					
5,80	7	9	0,20	4	162	15,80					
6,00	8	10	0,20	4	166	16,00					
6,20	11	14	0,30	6	172	16,20					
6,40	5	7	0,20	4	176	16,40					
6,60	1	2	0,10	2	178	16,60					
6,80	1	2	0,10	2	180	16,80					
7,00	13	16	0,30	6	186	17,00					
7,20	17	20	0,30	6	192	17,20					
7,40	18	21	0,30	6	198	17,40					
7,60	24	27	0,30	6	204	17,60					
7,80	33	36	0,30	6	210	17,80					
8,00	41	44	0,30	6	216	18,00					
8,20	73	76	0,30	6	222	18,20					
8,40	119	122	0,30	6	228	18,40					
8,60	178	181	0,30	6	234	18,60					
8,80	246	250	0,40	8	242	18,80					
9,00	250	250	0,00	0	242	19,00					
9,20						19,20					
9,40						19,40					
9,60						19,60					
9,80						19,80					
10,00						20,00					

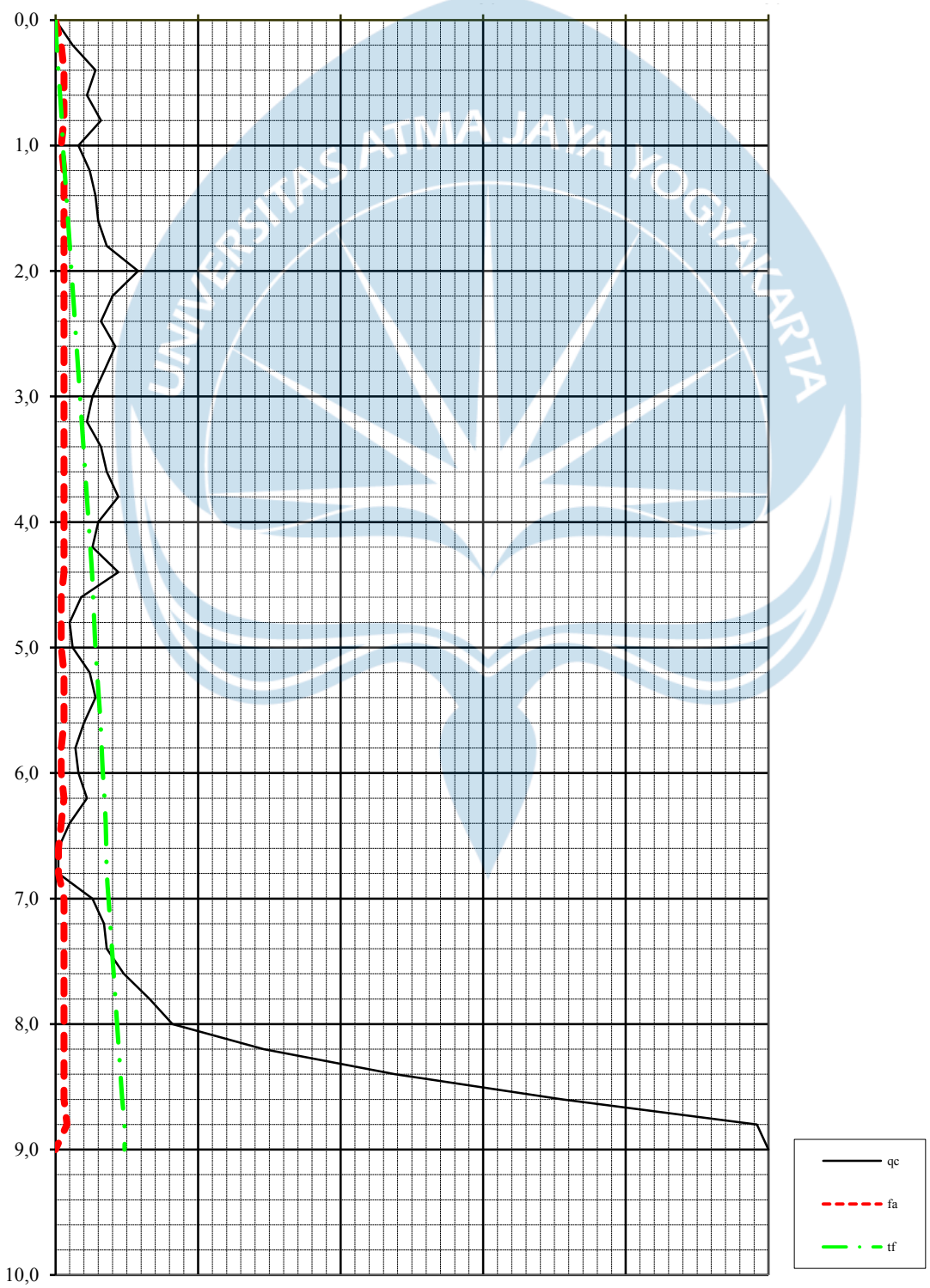
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 3
Date :

Elevation : ±0,00 m dari muka jalan
G.Water Depth : -7,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 4
ELEVATION : ±0,00 m dari muka jalan
G.WATER DEPTH : -7,00 meter dari muka tanah

DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0,00	0	0	0,00								
0,20	9	11	0,20	4	4	10,20					
0,40	28	31	0,30	6	10	10,40					
0,60	12	15	0,30	6	16	10,60					
0,80	14	17	0,30	6	22	10,80					
1,00	17	20	0,30	6	28	11,00					
1,20	11	14	0,30	6	34	11,20					
1,40	8	10	0,20	4	38	11,40					
1,60	5	7	0,20	4	42	11,60					
1,80	12	15	0,30	6	48	11,80					
2,00	19	22	0,30	6	54	12,00					
2,20	28	31	0,30	6	60	12,20					
2,40	22	25	0,30	6	66	12,40					
2,60	13	16	0,30	6	72	12,60					
2,80	15	18	0,30	6	78	12,80					
3,00	11	14	0,30	6	84	13,00					
3,20	13	16	0,30	6	90	13,20					
3,40	24	27	0,30	6	96	13,40					
3,60	26	29	0,30	6	102	13,60					
3,80	20	23	0,30	6	108	13,80					
4,00	9	11	0,20	4	112	14,00					
4,20	8	10	0,20	4	116	14,20					
4,40	12	15	0,30	6	122	14,40					
4,60	23	26	0,30	6	128	14,60					
4,80	24	27	0,30	6	134	14,80					
5,00	19	22	0,30	6	140	15,00					
5,20	12	15	0,30	6	146	15,20					
5,40	16	19	0,30	6	152	15,40					
5,60	8	10	0,20	4	156	15,60					
5,80	5	7	0,20	4	160	15,80					
6,00	10	13	0,30	6	166	16,00					
6,20	14	17	0,30	6	172	16,20					
6,40	28	31	0,30	6	178	16,40					
6,60	21	24	0,30	6	184	16,60					
6,80	19	22	0,30	6	190	16,80					
7,00	32	35	0,30	6	196	17,00					
7,20	49	52	0,30	6	202	17,20					
7,40	160	163	0,30	6	208	17,40					
7,60	201	204	0,30	6	214	17,60					
7,80	246	250	0,40	8	222	17,80					
8,00	250	250	0,00	0	222	18,00					
8,20						18,20					
8,40						18,40					
8,60						18,60					
8,80						18,80					
9,00						19,00					
9,20						19,20					
9,40						19,40					
9,60						19,60					
9,80						19,80					
10,00						20,00					

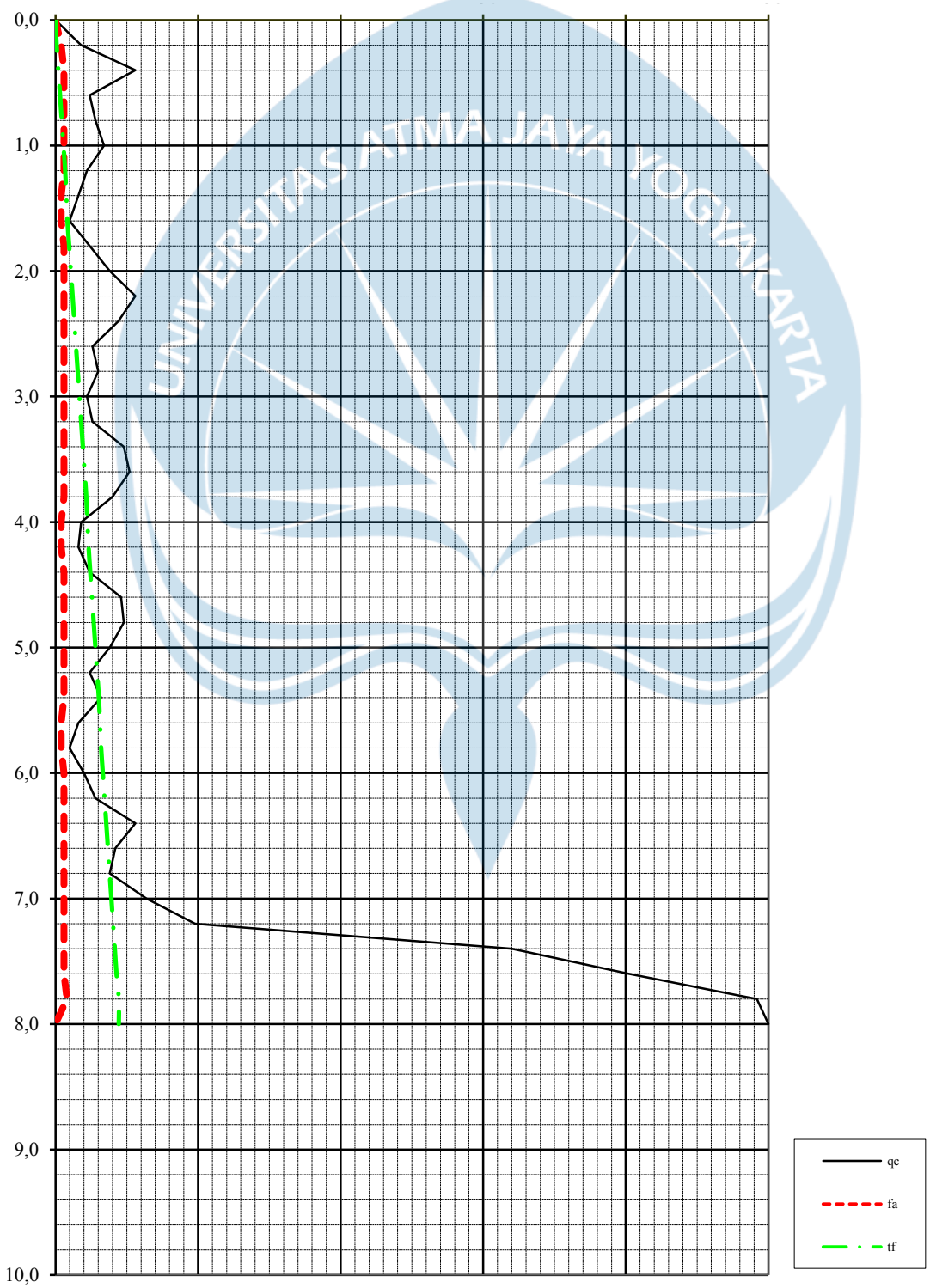
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 4
Date :

Elevation : ±0,00 m dari muka jalan
G.Water Depth : -7,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



5

SOIL MECHANIC LABORATORY
CIVIL ENGINEERING PROGRAM
FACULTY OF ENGINEERING, UAJY
44 BABARSARI STREET, YOGYAKARTA 55281
Tel: +62-274-487711 ext. 1055
Fax: +62-274-487748

Boring Number:

BH-1

BOR LOG

CLIENT:

PROJECT CONTRACT NUMBER:

PROJECT TITLE :

PROJECT LOCATION :

DATE STARTED:

DATE COMPLETED :

DRILLING CONTRACTOR:

DRILLING METHOD: ROTARY SPINDLE, SKID MOUNTED TYPE

LOGGED BY:

CHECKED BY:

GROUND ELEVATION : ± 0,00 m from road level

HOLE SIZE : 7.295cm

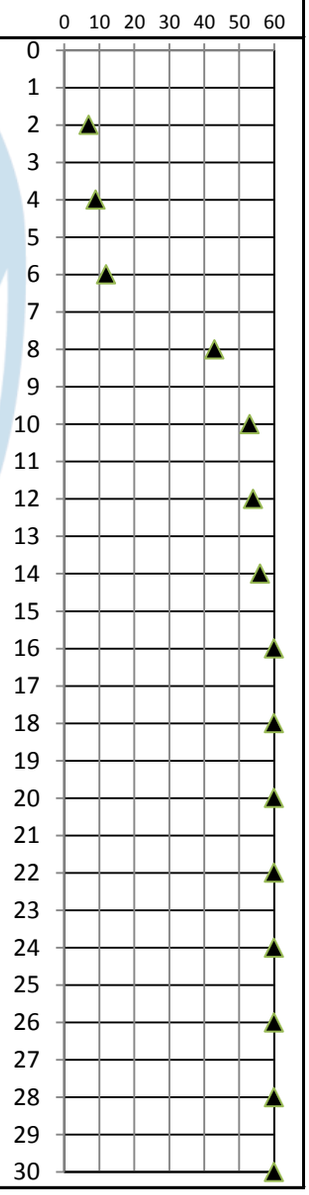
GROUND WATER LEVEL : - 7,00 m from ground level

WEATHER CONDITION : FINE

ESTIMATED SEASONAL HIGH : -

Depth (m)	Graph Log	Material Description (field observations)	Contact Depth (m)	Sample Number	Blow Counts (N Value) N1	N2	N3	NV	Water Level Elevation (m)
1									
2					2	2	5	7	
3		Lanau sedikit lempung (coklat, merah)	7						
4					2	3	6	9	
5				I					
6					3	5	7	12	
7									-7.00
8					13	15	28	43	
9									
10					13	21	32	53	
11		Pasir halus padat (abu-abu)	8						
12					15	22	32	54	
13									
14					15	23	33	56	
15									
16					17	23	37	60	
17									
18					17	24	36	60	
19									
20					19	25	35	60	
21									
22					19	24	36	60	
23		Pasir kerikil padat (abu-abu)	15						
24					19	26	34	60	
25									
26					20	23	37	60	
27									
28					21	23	37	60	
29									
30					21	25	35	60	

SPT Value



Catatan: Pada pengamatan di lapangan, lanau bisa tampak seperti pasir halus atau pasir sangat halus

Laboratorium Mekanika Tanah
UNIVERSITAS ATMA JAYA YOGYAKARTA
Fakultas Teknik - Program Studi Teknik Sipil
Jl. Babarsari No. 44 Yogyakarta 55281 Indonesia
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

REKAP HASIL PENGUJIAN TANAH

Proyek :
Lokasi :
Tanggal :

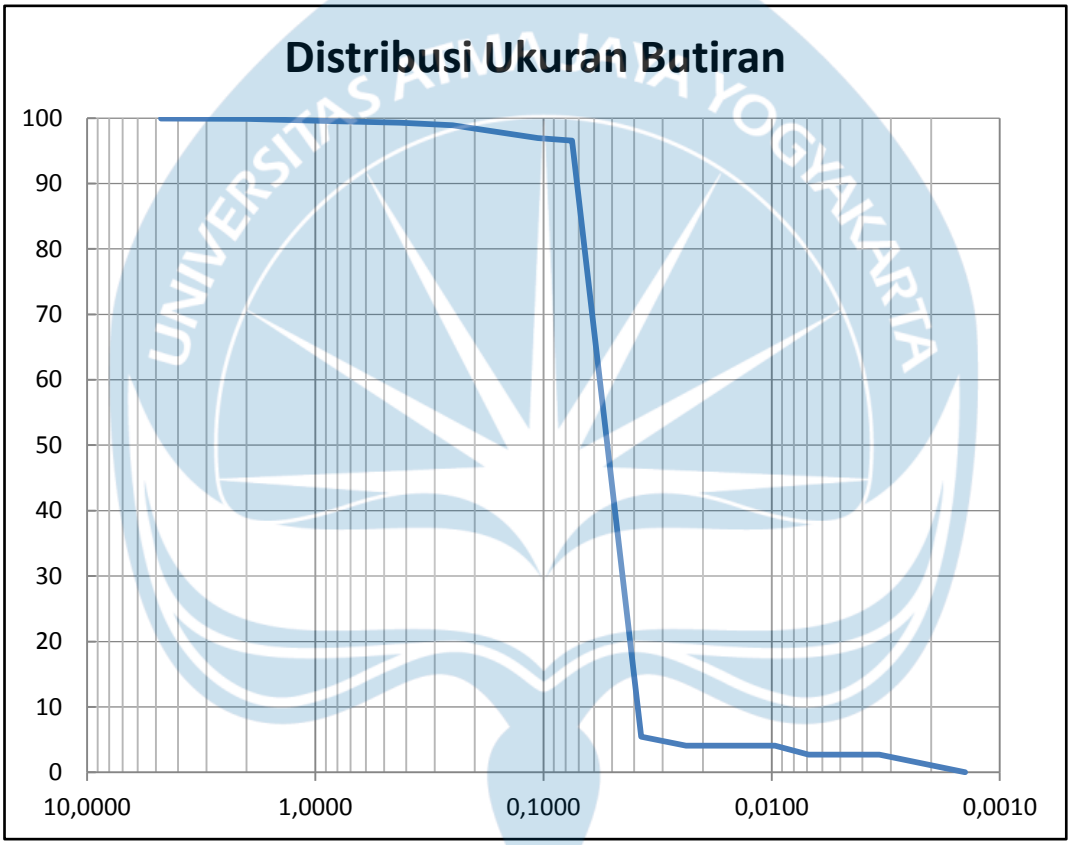
Titik	Kedalaman (m)	Kadar Air (%)	Berat Jenis (G)	γ_b (gr/cm^3)	γ_k (gr/cm^3)	Pengujian Geser Langsung	
						c (kg/cm^2)	θ°
BH 1	5	54,90	2,39	1,62	1,05	0,01	11,13

Laboratorium Mekanika Tanah
UNIVERSITAS ATMA JAYA YOGYAKARTA
Fakultas Teknik - Program Studi Teknik Sipil
Jl. Babarsari No. 44 Yogyakarta 55281 Indonesia
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH 1
Kedalaman: 5



No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4,750	0,05	99,95	99,95
10	2,000	0,06	99,89	99,89
20	0,850	0,33	99,56	99,56
40	0,425	0,27	99,29	99,29
60	0,250	0,37	98,92	98,92
140	0,106	1,99	96,93	96,93
200	0,075	0,37	96,56	96,56
Pan		96,56		

SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION	:	**DATE**	:
NUMBER OF CPT.	: 1	**WEATHER**	: Cerah
ELEVATION	: ±0,00 m dari muka jalan	**SURVEYOR**	:
G.WATER DEPTH	: -4,00 meter dari muka tanah	**PROJECT**	:

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0.00	0	0	0.00								
0.20	7	10	0.30	6	6	10.20	1	2	0.10	2	836
0.40	16	21	0.50	10	16	10.40	1	2	0.10	2	838
0.60	61	69	0.80	16	32	10.60	1	2	0.10	2	840
0.80	115	123	0.80	16	48	10.80	1	2	0.10	2	842
1.00	69	77	0.80	16	64	11.00	1	2	0.10	2	844
1.20	35	46	1.10	22	86	11.20	1	2	0.10	2	846
1.40	19	28	0.90	18	104	11.40	1	2	0.10	2	848
1.60	8	15	0.70	14	118	11.60	1	2	0.10	2	850
1.80	7	14	0.70	14	132	11.80	1	2	0.10	2	852
2.00	11	19	0.80	16	148	12.00	1	2	0.10	2	854
2.20	13	21	0.80	16	164	12.20	1	2	0.10	2	856
2.40	9	18	0.90	18	182	12.40	1	2	0.10	2	858
2.60	6	15	0.90	18	200	12.60	9	17	0.80	16	874
2.80	5	13	0.80	16	216	12.80	18	29	1.10	22	896
3.00	8	17	0.90	18	234	13.00	23	35	1.20	24	920
3.20	11	19	0.80	16	250	13.20	14	23	0.90	18	938
3.40	10	21	1.10	22	272	13.40	8	19	1.10	22	960
3.60	7	16	0.90	18	290	13.60	6	15	0.90	18	978
3.80	5	14	0.90	18	308	13.80	1	2	0.10	2	980
4.00	8	16	0.80	16	324	14.00	1	2	0.10	2	982
4.20	12	20	0.80	16	340	14.20	1	2	0.10	2	984
4.40	14	23	0.90	18	358	14.40	1	2	0.10	2	986
4.60	13	22	0.90	18	376	14.60	1	2	0.10	2	988
4.80	15	24	0.90	18	394	14.80	1	2	0.10	2	990
5.00	17	28	1.10	22	416	15.00	1	2	0.10	2	992
5.20	13	24	1.10	22	438	15.20	1	2	0.10	2	994
5.40	10	19	0.90	18	456	15.40	1	2	0.10	2	996
5.60	8	18	1.00	20	476	15.60	1	2	0.10	2	998
5.80	5	16	1.10	22	498	15.80	1	2	0.10	2	1000
6.00	7	19	1.20	24	522	16.00	1	2	0.10	2	1002
6.20	8	17	0.90	18	540	16.20	1	2	0.10	2	1004
6.40	11	21	1.00	20	560	16.40	7	16	0.90	18	1022
6.60	9	18	0.90	18	578	16.60	15	22	0.70	14	1036
6.80	21	32	1.10	22	600	16.80	24	35	1.10	22	1058
7.00	19	27	0.80	16	616	17.00	21	32	1.10	22	1080
7.20	14	25	1.10	22	638	17.20	14	25	1.10	22	1102
7.40	12	21	0.90	18	656	17.40	9	18	0.90	18	1120
7.60	15	24	0.90	18	674	17.60	5	13	0.80	16	1136
7.80	9	19	1.00	20	694	17.80	1	2	0.10	2	1138
8.00	7	18	1.10	22	716	18.00	1	2	0.10	2	1140
8.20	8	19	1.10	22	738	18.20	1	2	0.10	2	1142
8.40	11	22	1.10	22	760	18.40	1	2	0.10	2	1144
8.60	13	24	1.10	22	782	18.60	1	2	0.10	2	1146
8.80	12	21	0.90	18	800	18.80	1	2	0.10	2	1148
9.00	6	18	1.20	24	824	19.00	1	2	0.10	2	1150
9.20	1	2	0.10	2	826	19.20	1	2	0.10	2	1152
9.40	1	2	0.10	2	828	19.40	1	2	0.10	2	1154
9.60	1	2	0.10	2	830	19.60	1	2	0.10	2	1156
9.80	1	2	0.10	2	832	19.80	1	2	0.10	2	1158
10.00	1	2	0.10	2	834	20.00	1	2	0.10	2	1160

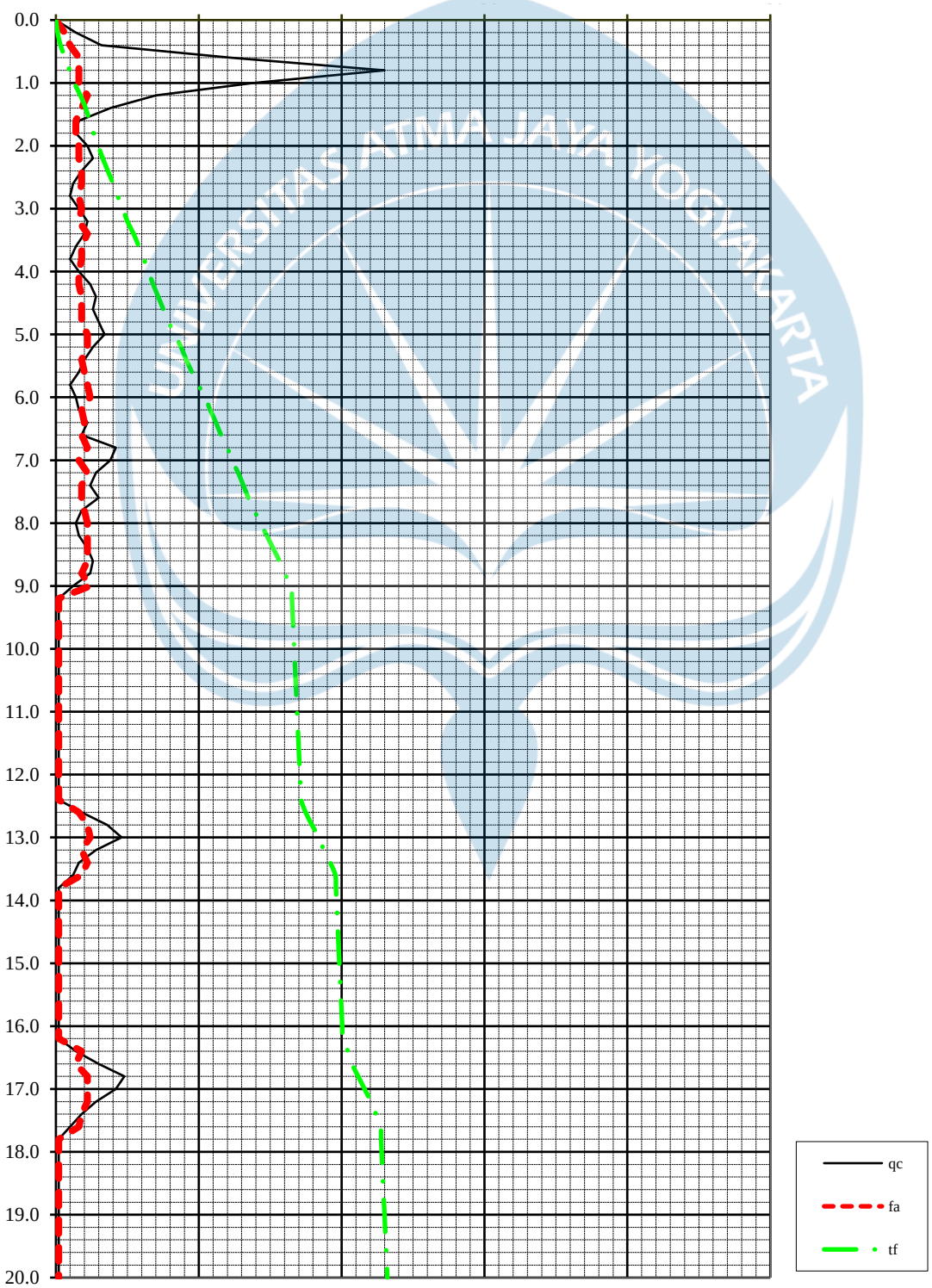
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 1
Date :

Elevation : ±0,00 m dari muka jalan
G.Water Depth : -4,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION	:	**DATE**	:
NUMBER OF CPT.	: 2	**WEATHER**	: Cerah
ELEVATION	: ±0,00 m dari muka jalan	**SURVEYOR**	:
G.WATER DEPTH	: -4,00 meter dari muka tanah	**PROJECT**	:

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0.00	0	0	0.00								
0.20	5	9	0.40	8	8	10.20	18	29	1.10	22	694
0.40	12	18	0.60	12	20	10.40	11	23	1.20	24	718
0.60	16	25	0.90	18	38	10.60	8	19	1.10	22	740
0.80	14	19	0.50	10	48	10.80	6	14	0.80	16	756
1.00	17	28	1.10	22	70	11.00	5	13	0.80	16	772
1.20	22	34	1.20	24	94	11.20	1	2	0.10	2	774
1.40	18	29	1.10	22	116	11.40	1	2	0.10	2	776
1.60	14	23	0.90	18	134	11.60	1	2	0.10	2	778
1.80	39	48	0.90	18	152	11.80	1	2	0.10	2	780
2.00	28	37	0.90	18	170	12.00	1	2	0.10	2	782
2.20	11	19	0.80	16	186	12.20	1	2	0.10	2	784
2.40	15	24	0.90	18	204	12.40	1	2	0.10	2	786
2.60	9	18	0.90	18	222	12.60	1	2	0.10	2	788
2.80	1	2	0.10	2	224	12.80	1	2	0.10	2	790
3.00	1	2	0.10	2	226	13.00	1	2	0.10	2	792
3.20	1	2	0.10	2	228	13.20	26	35	0.90	18	810
3.40	1	2	0.10	2	230	13.40	19	29	1.00	20	830
3.60	1	2	0.10	2	232	13.60	8	16	0.80	16	846
3.80	1	2	0.10	2	234	13.80	1	2	0.10	2	848
4.00	1	2	0.10	2	236	14.00	1	2	0.10	2	850
4.20	1	2	0.10	2	238	14.20	1	2	0.10	2	852
4.40	1	2	0.10	2	240	14.40	1	2	0.10	2	854
4.60	12	21	0.90	18	258	14.60	1	2	0.10	2	856
4.80	8	19	1.10	22	280	14.80	1	2	0.10	2	858
5.00	5	12	0.70	14	294	15.00	1	2	0.10	2	860
5.20	11	21	1.00	20	314	15.20	1	2	0.10	2	862
5.40	13	24	1.10	22	336	15.40	1	2	0.10	2	864
5.60	10	19	0.90	18	354	15.60	1	2	0.10	2	866
5.80	7	16	0.90	18	372	15.80	1	2	0.10	2	868
6.00	6	15	0.90	18	390	16.00	1	2	0.10	2	870
6.20	1	2	0.10	2	392	16.20	1	2	0.10	2	872
6.40	1	2	0.10	2	394	16.40	1	2	0.10	2	874
6.60	7	13	0.60	12	406	16.60	1	2	0.10	2	876
6.80	16	27	1.10	22	428	16.80	1	2	0.10	2	878
7.00	13	25	1.20	24	452	17.00	1	2	0.10	2	880
7.20	15	26	1.10	22	474	17.20	1	2	0.10	2	882
7.40	9	18	0.90	18	492	17.40	1	2	0.10	2	884
7.60	6	15	0.90	18	510	17.60	1	2	0.10	2	886
7.80	14	26	1.20	24	534	17.80	1	2	0.10	2	888
8.00	18	31	1.30	26	560	18.00	13	24	1.10	22	910
8.20	12	23	1.10	22	582	18.20	24	36	1.20	24	934
8.40	7	16	0.90	18	600	18.40	33	45	1.20	24	958
8.60	5	13	0.80	16	616	18.60	19	30	1.10	22	980
8.80	1	2	0.10	2	618	18.80	8	15	0.70	14	994
9.00	1	2	0.10	2	620	19.00	6	13	0.70	14	1008
9.20	1	2	0.10	2	622	19.20	1	2	0.10	2	1010
9.40	1	2	0.10	2	624	19.40	1	2	0.10	2	1012
9.60	1	2	0.10	2	626	19.60	1	2	0.10	2	1014
9.80	13	24	1.10	22	648	19.80	1	2	0.10	2	1016
10.00	15	27	1.20	24	672	20.00	1	2	0.10	2	1018

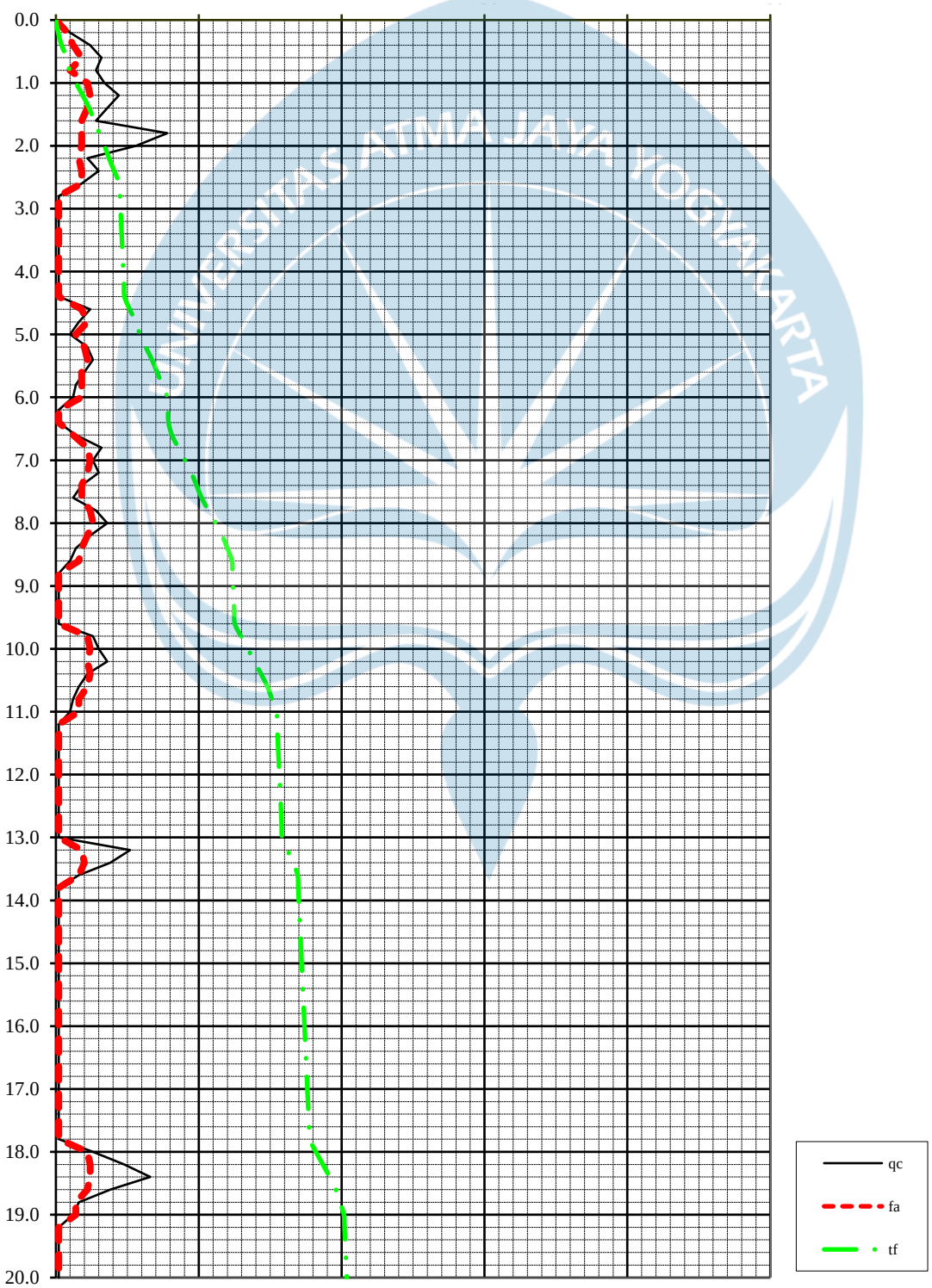
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 2
Date :

Elevation : ±0,00 m dari muka jalan
G.Water Depth : -4,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 3
ELEVATION : ±0,00 m dari muka jalan
G.WATER DEPTH : -4,00 meter dari muka tanah
DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0.00	0	0	0.00								
0.20	5	11	0.60	12	12	10.20	1	2	0.10	2	532
0.40	9	14	0.50	10	22	10.40	1	2	0.10	2	534
0.60	16	27	1.10	22	44	10.60	1	2	0.10	2	536
0.80	12	21	0.90	18	62	10.80	1	2	0.10	2	538
1.00	20	31	1.10	22	84	11.00	1	2	0.10	2	540
1.20	18	29	1.10	22	106	11.20	1	2	0.10	2	542
1.40	7	15	0.80	16	122	11.40	6	14	0.80	16	558
1.60	5	12	0.70	14	136	11.60	14	25	1.10	22	580
1.80	29	38	0.90	18	154	11.80	29	40	1.10	22	602
2.00	37	47	1.00	20	174	12.00	32	41	0.90	18	620
2.20	24	33	0.90	18	192	12.20	21	32	1.10	22	642
2.40	9	18	0.90	18	210	12.40	17	29	1.20	24	666
2.60	6	14	0.80	16	226	12.60	12	24	1.20	24	690
2.80	5	12	0.70	14	240	12.80	8	16	0.80	16	706
3.00	1	2	0.10	2	242	13.00	5	12	0.70	14	720
3.20	1	2	0.10	2	244	13.20	1	2	0.10	2	722
3.40	1	2	0.10	2	246	13.40	1	2	0.10	2	724
3.60	1	2	0.10	2	248	13.60	1	2	0.10	2	726
3.80	1	2	0.10	2	250	13.80	1	2	0.10	2	728
4.00	1	2	0.10	2	252	14.00	1	2	0.10	2	730
4.20	1	2	0.10	2	254	14.20	1	2	0.10	2	732
4.40	7	15	0.80	16	270	14.40	1	2	0.10	2	734
4.60	12	21	0.90	18	288	14.60	1	2	0.10	2	736
4.80	9	19	1.00	20	308	14.80	1	2	0.10	2	738
5.00	11	20	0.90	18	326	15.00	1	2	0.10	2	740
5.20	8	19	1.10	22	348	15.20	1	2	0.10	2	742
5.40	14	23	0.90	18	366	15.40	1	2	0.10	2	744
5.60	9	18	0.90	18	384	15.60	1	2	0.10	2	746
5.80	6	14	0.80	16	400	15.80	1	2	0.10	2	748
6.00	1	2	0.10	2	402	16.00	1	2	0.10	2	750
6.20	1	2	0.10	2	404	16.20	1	2	0.10	2	752
6.40	1	2	0.10	2	406	16.40	1	2	0.10	2	754
6.60	1	2	0.10	2	408	16.60	1	2	0.10	2	756
6.80	1	2	0.10	2	410	16.80	1	2	0.10	2	758
7.00	1	2	0.10	2	412	17.00	1	2	0.10	2	760
7.20	1	2	0.10	2	414	17.20	1	2	0.10	2	762
7.40	8	18	1.00	20	434	17.40	1	2	0.10	2	764
7.60	19	29	1.00	20	454	17.60	1	2	0.10	2	766
7.80	16	27	1.10	22	476	17.80	1	2	0.10	2	768
8.00	11	20	0.90	18	494	18.00	1	2	0.10	2	770
8.20	7	16	0.90	18	512	18.20	1	2	0.10	2	772
8.40	1	2	0.10	2	514	18.40	1	2	0.10	2	774
8.60	1	2	0.10	2	516	18.60	1	2	0.10	2	776
8.80	1	2	0.10	2	518	18.80	6	18	1.20	24	800
9.00	1	2	0.10	2	520	19.00	11	22	1.10	22	822
9.20	1	2	0.10	2	522	19.20	8	19	1.10	22	844
9.40	1	2	0.10	2	524	19.40	1	2	0.10	2	846
9.60	1	2	0.10	2	526	19.60	1	2	0.10	2	848
9.80	1	2	0.10	2	528	19.80	1	2	0.10	2	850
10.00	1	2	0.10	2	530	20.00	1	2	0.10	2	852

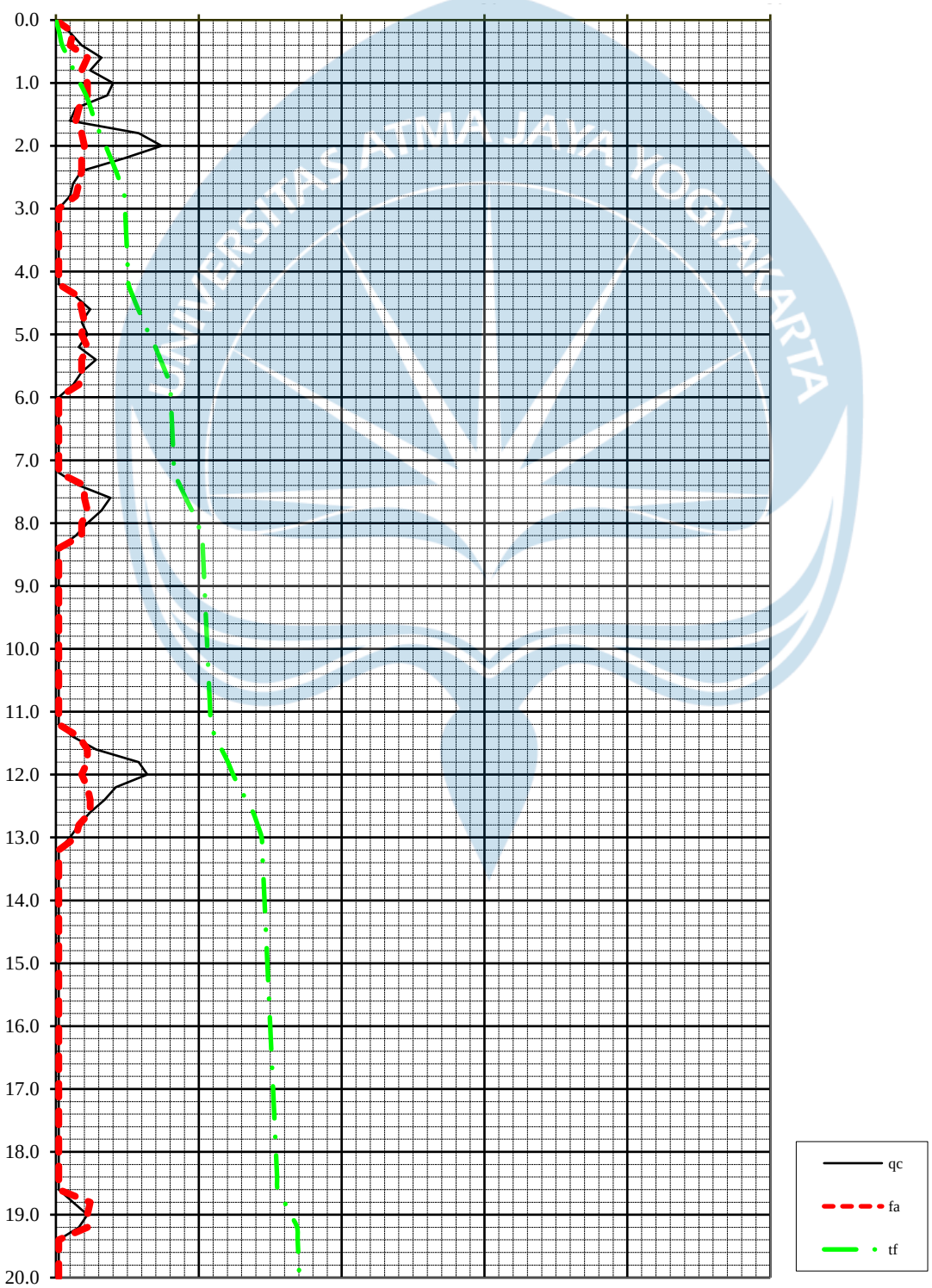
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 3
Date :

Elevation : ±0,00 m dari muka jalan
G.Water Depth : -4,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 4
ELEVATION : -0,20 m dari muka jalan
G.WATER DEPTH : -4,00 meter dari muka tanah

DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0.00	0	0	0.00								
0.20	6	15	0.90	18	18	10.20	1	2	0.10	2	624
0.40	15	24	0.90	18	36	10.40	1	2	0.10	2	626
0.60	24	33	0.90	18	54	10.60	1	2	0.10	2	628
0.80	13	24	1.10	22	76	10.80	1	2	0.10	2	630
1.00	18	29	1.10	22	98	11.00	1	2	0.10	2	632
1.20	22	31	0.90	18	116	11.20	1	2	0.10	2	634
1.40	14	23	0.90	18	134	11.40	1	2	0.10	2	636
1.60	11	21	1.00	20	154	11.60	1	2	0.10	2	638
1.80	9	18	0.90	18	172	11.80	1	2	0.10	2	640
2.00	6	15	0.90	18	190	12.00	1	2	0.10	2	642
2.20	12	21	0.90	18	208	12.20	1	2	0.10	2	644
2.40	14	23	0.90	18	226	12.40	1	2	0.10	2	646
2.60	10	20	1.00	20	246	12.60	8	16	0.80	16	662
2.80	13	21	0.80	16	262	12.80	12	24	1.20	24	686
3.00	19	30	1.10	22	284	13.00	19	32	1.30	26	712
3.20	12	21	0.90	18	302	13.20	16	28	1.20	24	736
3.40	7	15	0.80	16	318	13.40	24	36	1.20	24	760
3.60	5	13	0.80	16	334	13.60	27	39	1.20	24	784
3.80	1	2	0.10	2	336	13.80	23	32	0.90	18	802
4.00	1	2	0.10	2	338	14.00	18	31	1.30	26	828
4.20	1	2	0.10	2	340	14.20	14	26	1.20	24	852
4.40	1	2	0.10	2	342	14.40	11	23	1.20	24	876
4.60	1	2	0.10	2	344	14.60	9	20	1.10	22	898
4.80	1	2	0.10	2	346	14.80	12	21	0.90	18	916
5.00	1	2	0.10	2	348	15.00	8	17	0.90	18	934
5.20	1	2	0.10	2	350	15.20	5	14	0.90	18	952
5.40	1	2	0.10	2	352	15.40	1	2	0.10	2	954
5.60	12	21	0.90	18	370	15.60	1	2	0.10	2	956
5.80	16	27	1.10	22	392	15.80	1	2	0.10	2	958
6.00	28	39	1.10	22	414	16.00	1	2	0.10	2	960
6.20	19	31	1.20	24	438	16.20	1	2	0.10	2	962
6.40	17	28	1.10	22	460	16.40	1	2	0.10	2	964
6.60	23	32	0.90	18	478	16.60	1	2	0.10	2	966
6.80	18	28	1.00	20	498	16.80	1	2	0.10	2	968
7.00	9	19	1.00	20	518	17.00	1	2	0.10	2	970
7.20	7	14	0.70	14	532	17.20	1	2	0.10	2	972
7.40	1	2	0.10	2	534	17.40	11	22	1.10	22	994
7.60	1	2	0.10	2	536	17.60	26	37	1.10	22	1016
7.80	1	2	0.10	2	538	17.80	39	51	1.20	24	1040
8.00	1	2	0.10	2	540	18.00	42	53	1.10	22	1062
8.20	1	2	0.10	2	542	18.20	28	39	1.10	22	1084
8.40	1	2	0.10	2	544	18.40	19	30	1.10	22	1106
8.60	1	2	0.10	2	546	18.60	24	35	1.10	22	1128
8.80	1	2	0.10	2	548	18.80	27	38	1.10	22	1150
9.00	1	2	0.10	2	550	19.00	32	43	1.10	22	1172
9.20	1	2	0.10	2	552	19.20	36	49	1.30	26	1198
9.40	6	13	0.70	14	566	19.40	43	54	1.10	22	1220
9.60	13	22	0.90	18	584	19.60	38	47	0.90	18	1238
9.80	7	17	1.00	20	604	19.80	26	37	1.10	22	1260
10.00	5	14	0.90	18	622	20.00	23	33	1.00	20	1280

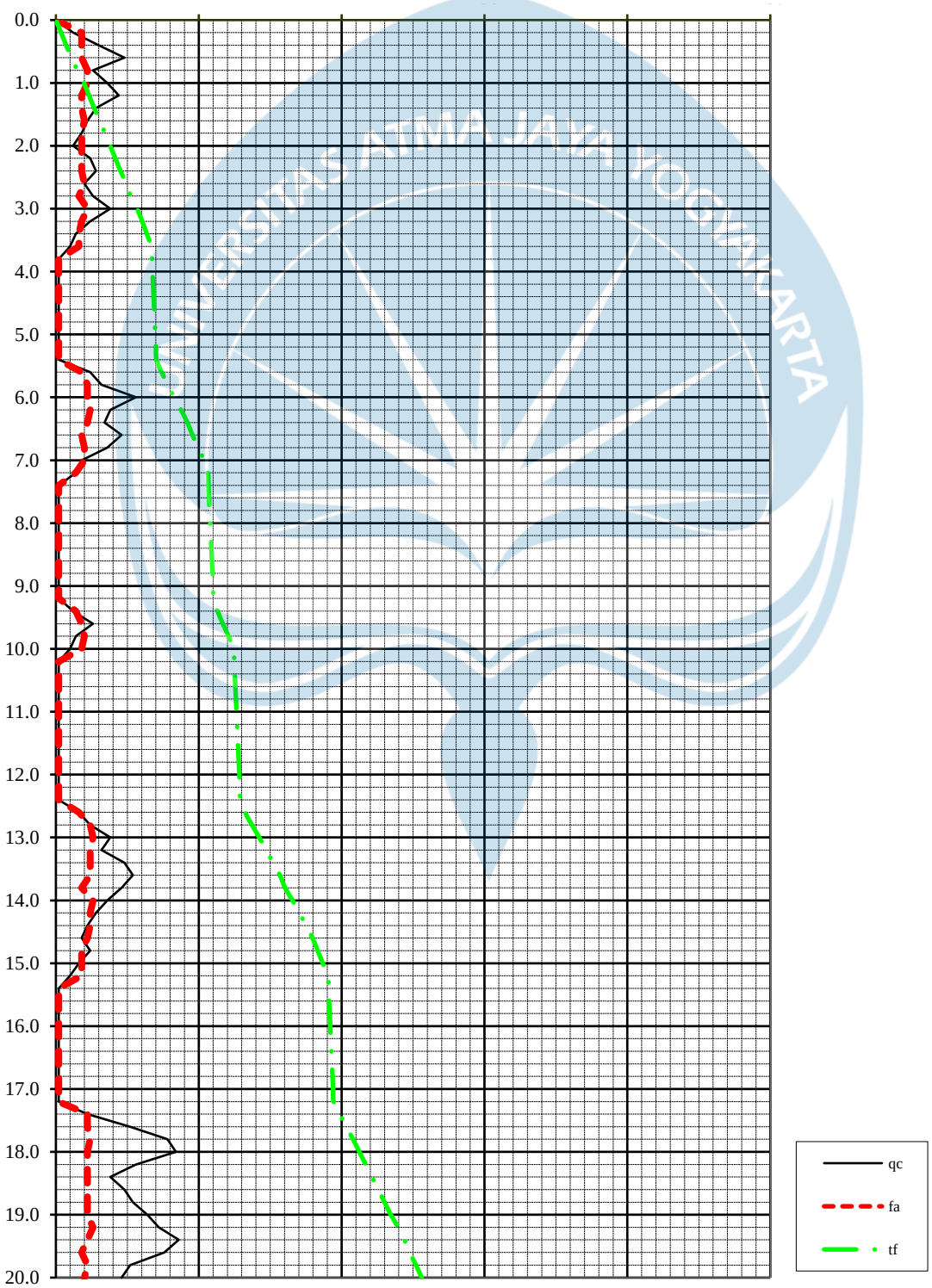
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 4
Date :

Elevation : -0,20 m dari muka jalan
G.Water Depth : -4,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



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SOIL MECHANIC LABORATORY
CIVIL ENGINEERING PROGRAM
FACULTY OF ENGINEERING, UAJY
44 BABARSARI STREET, YOGYAKARTA 55281
Tel: +62-274-487711 ext. 2052
Fax: +62-274-487748

Boring Number:

BH-1

BOR LOG

CLIENT:

PROJECT CONTRACT NUMBER:

PROJECT TITLE :

PROJECT LOCATION :

DATE STARTED

DATE COMPLETED

DRILLING CONTRACTOR:

DRILLING METHOD: ROTARY SPINDLE, SKID MOUNTED TYPE

LOGGED BY:

CHECKED BY:

GROUND ELEVATION : - 0,20 m from road level

HOLE SIZE : 7.295cm

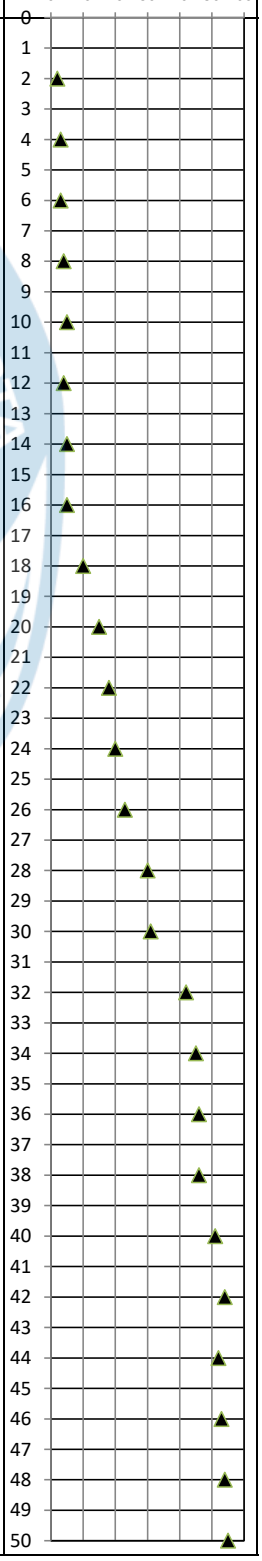
GROUND WATER LEVEL : -4,00 m from ground level

WEATHER CONDITION : FINE

ESTIMATED SEASONAL HIGH : -

Depth (m)	Graph Log	Material Description (field observations)	Contact Depth (m)	Sample Number	Blow Counts (N Value) N1	N2	N3	Nv	Water Level Elevation (m)
1									
2					1	1	1	2	
3									
4					1	1	2	3	
5									
6					1	1	2	3	
7									
8					2	2	2	4	
9									
10				I	2	2	3	5	
11									
12					1	2	2	4	
13									
14					1	2	3	5	
15		Lanau berpasir sedikit							
16		lempung (abu-abu)	30		2	2	3	5	
17									
18					2	4	6	10	
19									
20				II	4	6	9	15	
21									
22					4	8	10	18	
23									
24					5	8	12	20	
25									
26					7	9	14	23	
27									
28					9	14	16	30	
29									
30					9	14	17	31	
31									
32					12	15	27	42	
33									
34					12	15	30	45	
35									
36					12	16	30	46	
37									
38					13	15	31	46	
39									
40		Pasir lanau (abu-abu)	20		14	21	30	51	
41									
42					14	24	30	54	
43									
44					12	20	32	52	
45									
46					15	23	30	53	
47									
48					16	22	32	54	
49									
50					16	24	31	55	

SPT Value



Catatan: Pada pengamatan di lapangan, lanau bisa tampak seperti pasir halus atau pasir sangat halus

Laboratorium Mekanika Tanah
UNIVERSITAS ATMA JAYA YOGYAKARTA
Fakultas Teknik - Program Studi Teknik Sipil
Jl. Babarsari No. 44 Yogyakarta 55281 Indonesia
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

REKAP HASIL PENGUJIAN TANAH

Proyek :
Lokasi :
Tanggal :

Titik	Kedalaman (m)	Kadar Air (%)	Berat Jenis (G)	γ_b (gr/cm^3)	γ_k (gr/cm^3)	Pengujian Geser Langsung	
						c (kg/cm^2)	θ°
BH 1	10.00	40.52	2.53	1.58	1.12	0.10	11.91
	20.00	48.92	2.51	1.56	1.05	0.10	17.01

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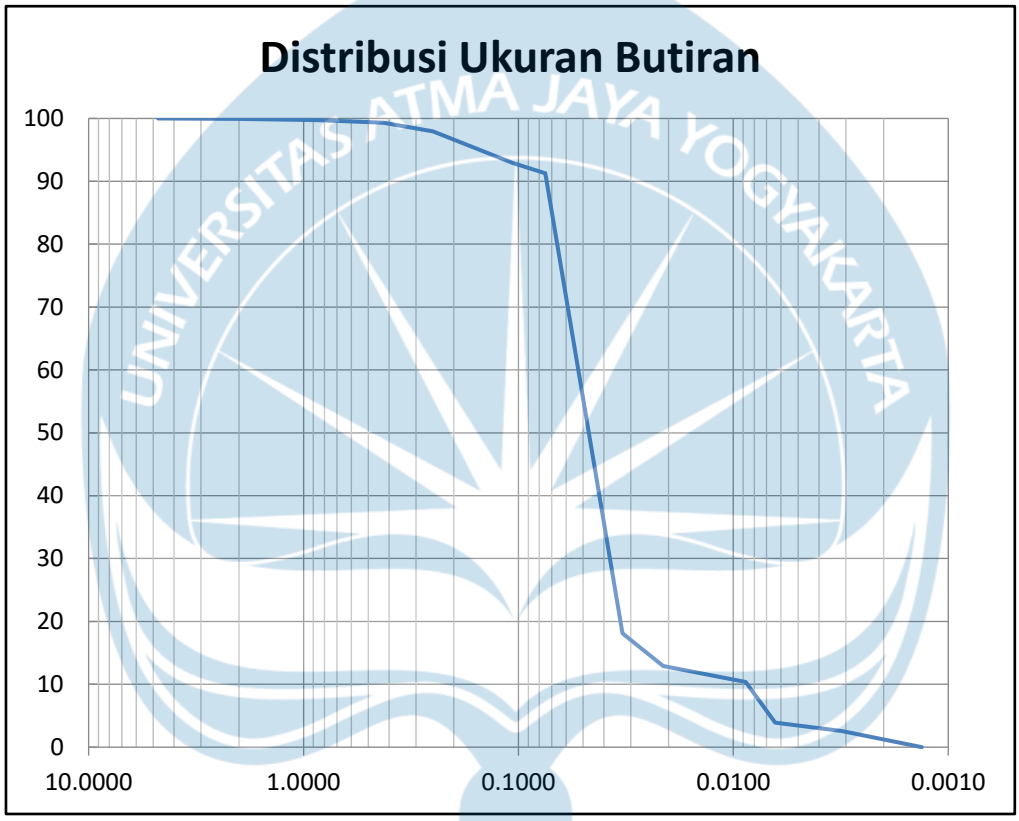
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH 1
Kedalaman: 10.00



No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4.750	0.00	100.00	100.00
10	2.000	0.07	99.93	99.93
20	0.850	0.21	99.72	99.72
40	0.425	0.38	99.34	99.34
60	0.250	1.38	97.96	97.96
140	0.106	5.07	92.89	92.89
200	0.075	1.64	91.25	91.25
Pan		91.25		

Laboratorium Mekanika Tanah
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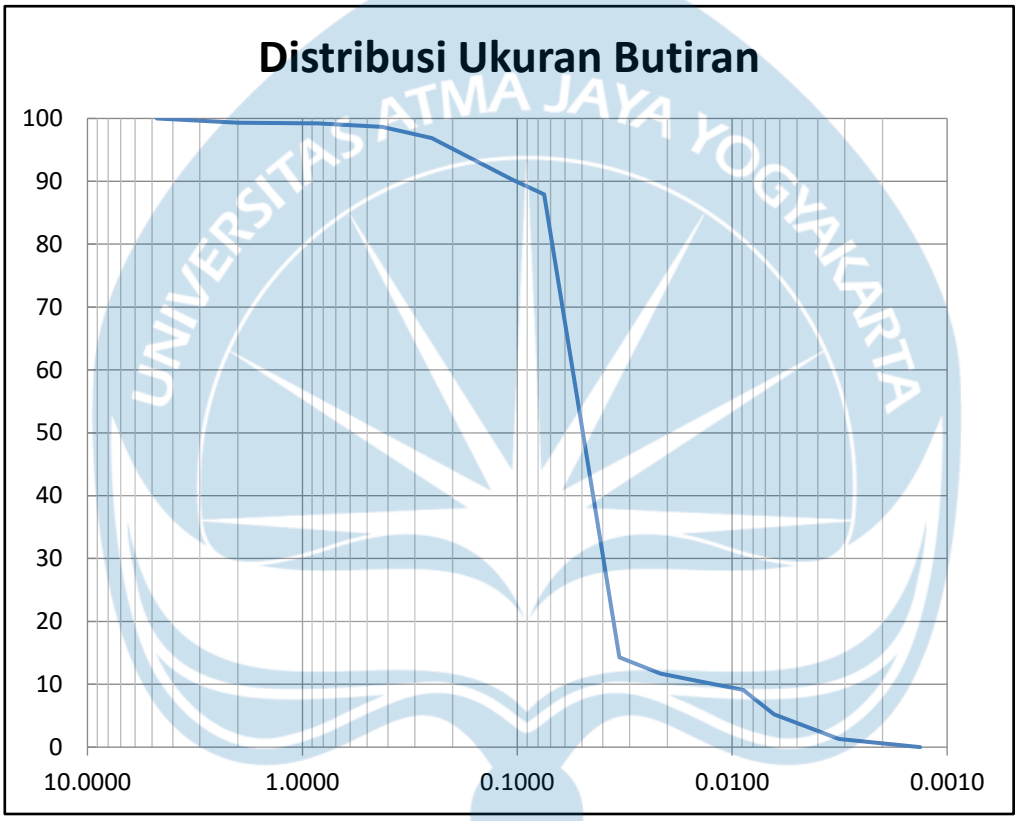
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH 1
Kedalaman: 20.00



No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4.750	0.00	100.00	100.00
10	2.000	0.66	99.34	99.34
20	0.850	0.12	99.22	99.22
40	0.425	0.58	98.64	98.64
60	0.250	1.78	96.86	96.86
140	0.106	6.53	90.33	90.33
200	0.075	2.44	87.89	87.89
Pan		87.89		

SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 1
ELEVATION : -0,50 m dari muka jalan
G.WATER DEPTH : -6,00 meter dari muka tanah

DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0,00	0	0	0,00								
0,20	2	3	0,10	2	2	10,20	30	33	0,30	6	286
0,40	4	5	0,10	2	4	10,40	39	42	0,30	6	292
0,60	3	5	0,20	4	8	10,60	43	56	1,30	26	318
0,80	6	8	0,20	4	12	10,80	78	82	0,40	8	326
1,00	5	7	0,20	4	16	11,00	124	127	0,30	6	332
1,20	6	8	0,20	4	20	11,20	136	139	0,30	6	338
1,40	7	9	0,20	4	24	11,40	151	154	0,30	6	344
1,60	9	11	0,20	4	28	11,60	143	146	0,30	6	350
1,80	10	13	0,30	6	34	11,80	168	171	0,30	6	356
2,00	14	17	0,30	6	40	12,00	184	187	0,30	6	362
2,20	23	26	0,30	6	46	12,20	195	198	0,30	6	368
2,40	19	22	0,30	6	52	12,40	246	250	0,40	8	376
2,60	21	24	0,30	6	58	12,60	250	250	0,00	0	376
2,80	14	17	0,30	6	64	12,80					
3,00	42	45	0,30	6	70	13,00					
3,20	29	32	0,30	6	76	13,20					
3,40	26	29	0,30	6	82	13,40					
3,60	24	27	0,30	6	88	13,60					
3,80	28	31	0,30	6	94	13,80					
4,00	32	35	0,30	6	100	14,00					
4,20	30	33	0,30	6	106	14,20					
4,40	26	29	0,30	6	112	14,40					
4,60	14	17	0,30	6	118	14,60					
4,80	25	28	0,30	6	124	14,80					
5,00	27	30	0,30	6	130	15,00					
5,20	22	25	0,30	6	136	15,20					
5,40	21	24	0,30	6	142	15,40					
5,60	26	29	0,30	6	148	15,60					
5,80	53	56	0,30	6	154	15,80					
6,00	37	40	0,30	6	160	16,00					
6,20	32	35	0,30	6	166	16,20					
6,40	24	27	0,30	6	172	16,40					
6,60	33	36	0,30	6	178	16,60					
6,80	19	22	0,30	6	184	16,80					
7,00	23	26	0,30	6	190	17,00					
7,20	29	32	0,30	6	196	17,20					
7,40	17	20	0,30	6	202	17,40					
7,60	15	18	0,30	6	208	17,60					
7,80	26	29	0,30	6	214	17,80					
8,00	34	37	0,30	6	220	18,00					
8,20	28	31	0,30	6	226	18,20					
8,40	24	27	0,30	6	232	18,40					
8,60	39	42	0,30	6	238	18,60					
8,80	33	36	0,30	6	244	18,80					
9,00	35	38	0,30	6	250	19,00					
9,20	38	41	0,30	6	256	19,20					
9,40	17	20	0,30	6	262	19,40					
9,60	23	26	0,30	6	268	19,60					
9,80	34	37	0,30	6	274	19,80					
10,00	26	29	0,30	6	280	20,00					

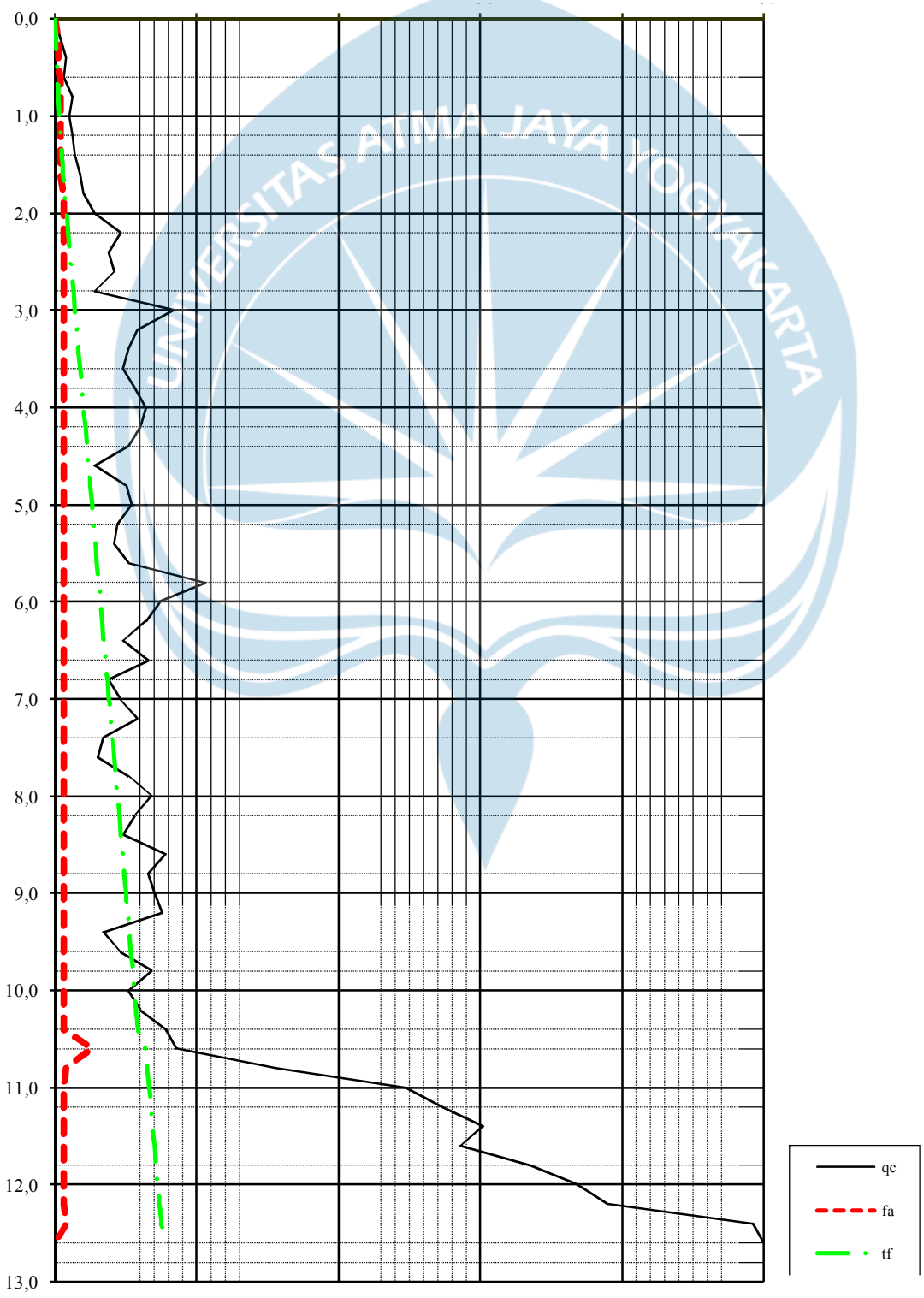
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 1
Date :

Elevation : -0,50 m dari muka jalan
G.Water Depth : -6,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 2
ELEVATION : -0,50 m dari muka jalan
G.WATER DEPTH : -6,00 meter dari muka tanah

, **DATE** :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0,00	0	0	0,00								
0,20	2	3	0,10	2	2	10,20	102	105	0,30	6	292
0,40	4	6	0,20	4	6	10,40	118	121	0,30	6	298
0,60	5	7	0,20	4	10	10,60	114	117	0,30	6	304
0,80	4	6	0,20	4	14	10,80	146	149	0,30	6	310
1,00	6	8	0,20	4	18	11,00	161	164	0,30	6	316
1,20	7	9	0,20	4	22	11,20	192	195	0,30	6	322
1,40	11	14	0,30	6	28	11,40	208	211	0,30	6	328
1,60	13	16	0,30	6	34	11,60	246	250	0,40	8	336
1,80	15	18	0,30	6	40	11,80	250	250	0,00	0	336
2,00	11	14	0,30	6	46	12,00					
2,20	16	19	0,30	6	52	12,20					
2,40	15	18	0,30	6	58	12,40					
2,60	10	13	0,30	6	64	12,60					
2,80	51	54	0,30	6	70	12,80					
3,00	65	68	0,30	6	76	13,00					
3,20	79	82	0,30	6	82	13,20					
3,40	103	106	0,30	6	88	13,40					
3,60	71	74	0,30	6	94	13,60					
3,80	36	39	0,30	6	100	13,80					
4,00	31	34	0,30	6	106	14,00					
4,20	29	32	0,30	6	112	14,20					
4,40	40	43	0,30	6	118	14,40					
4,60	36	39	0,30	6	124	14,60					
4,80	27	30	0,30	6	130	14,80					
5,00	23	26	0,30	6	136	15,00					
5,20	20	23	0,30	6	142	15,20					
5,40	19	22	0,30	6	148	15,40					
5,60	24	27	0,30	6	154	15,60					
5,80	38	41	0,30	6	160	15,80					
6,00	33	36	0,30	6	166	16,00					
6,20	35	38	0,30	6	172	16,20					
6,40	28	31	0,30	6	178	16,40					
6,60	21	24	0,30	6	184	16,60					
6,80	25	28	0,30	6	190	16,80					
7,00	27	30	0,30	6	196	17,00					
7,20	31	34	0,30	6	202	17,20					
7,40	26	29	0,30	6	208	17,40					
7,60	18	21	0,30	6	214	17,60					
7,80	23	26	0,30	6	220	17,80					
8,00	31	34	0,30	6	226	18,00					
8,20	32	35	0,30	6	232	18,20					
8,40	26	29	0,30	6	238	18,40					
8,60	35	38	0,30	6	244	18,60					
8,80	31	34	0,30	6	250	18,80					
9,00	42	45	0,30	6	256	19,00					
9,20	34	37	0,30	6	262	19,20					
9,40	58	61	0,30	6	268	19,40					
9,60	80	83	0,30	6	274	19,60					
9,80	73	76	0,30	6	280	19,80					
10,00	82	85	0,30	6	286	20,00					

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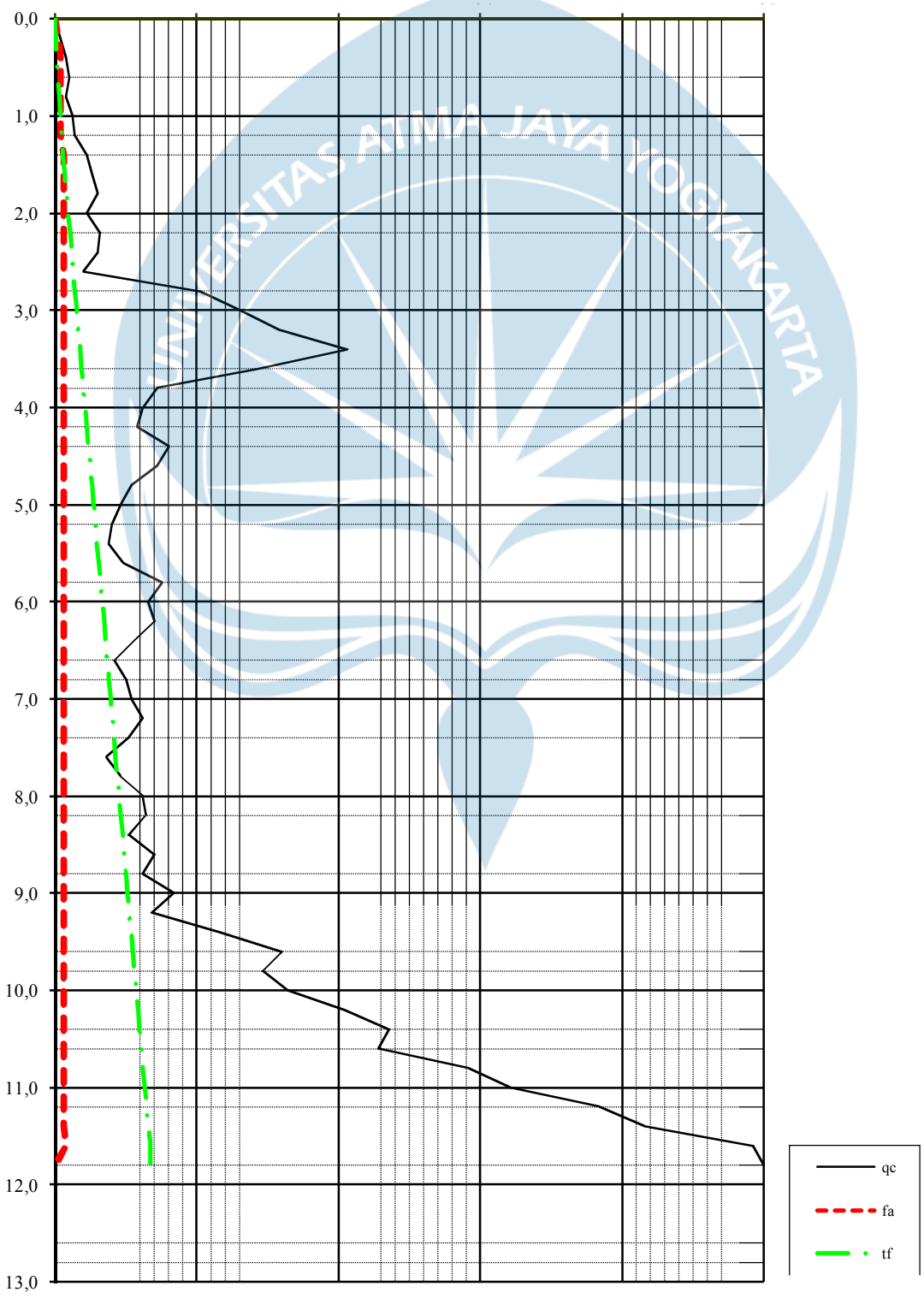
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 2
Date :

Elevation : -0,50 m dari muka jalan
G.Water Depth : -6,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



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2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 3
ELEVATION : -0,50 m dari muka jalan
G.WATER DEPTH : -6,00 meter dari muka tanah

DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0,00	0	0	0,00								
0,20	3	5	0,20	4	4	10,20					
0,40	6	8	0,20	4	8	10,40					
0,60	5	7	0,20	4	12	10,60					
0,80	3	5	0,20	4	16	10,80					
1,00	4	6	0,20	4	20	11,00					
1,20	8	11	0,30	6	26	11,20					
1,40	10	13	0,30	6	32	11,40					
1,60	6	8	0,20	4	36	11,60					
1,80	3	5	0,20	4	40	11,80					
2,00	1	2	0,10	2	42	12,00					
2,20	1	2	0,10	2	44	12,20					
2,40	14	17	0,30	6	50	12,40					
2,60	28	31	0,30	6	56	12,60					
2,80	24	27	0,30	6	62	12,80					
3,00	61	64	0,30	6	68	13,00					
3,20	53	56	0,30	6	74	13,20					
3,40	24	27	0,30	6	80	13,40					
3,60	16	19	0,30	6	86	13,60					
3,80	18	21	0,30	6	92	13,80					
4,00	49	52	0,30	6	98	14,00					
4,20	26	29	0,30	6	104	14,20					
4,40	14	17	0,30	6	110	14,40					
4,60	18	21	0,30	6	116	14,60					
4,80	20	23	0,30	6	122	14,80					
5,00	16	19	0,30	6	128	15,00					
5,20	18	21	0,30	6	134	15,20					
5,40	14	17	0,30	6	140	15,40					
5,60	17	20	0,30	6	146	15,60					
5,80	26	29	0,30	6	152	15,80					
6,00	51	54	0,30	6	158	16,00					
6,20	78	81	0,30	6	164	16,20					
6,40	94	97	0,30	6	170	16,40					
6,60	120	123	0,30	6	176	16,60					
6,80	146	149	0,30	6	182	16,80					
7,00	152	155	0,30	6	188	17,00					
7,20	179	182	0,30	6	194	17,20					
7,40	193	196	0,30	6	200	17,40					
7,60	246	250	0,40	8	208	17,60					
7,80	250	250	0,00	0	208	17,80					
8,00						18,00					
8,20						18,20					
8,40						18,40					
8,60						18,60					
8,80						18,80					
9,00						19,00					
9,20						19,20					
9,40						19,40					
9,60						19,60					
9,80						19,80					
10,00						20,00					

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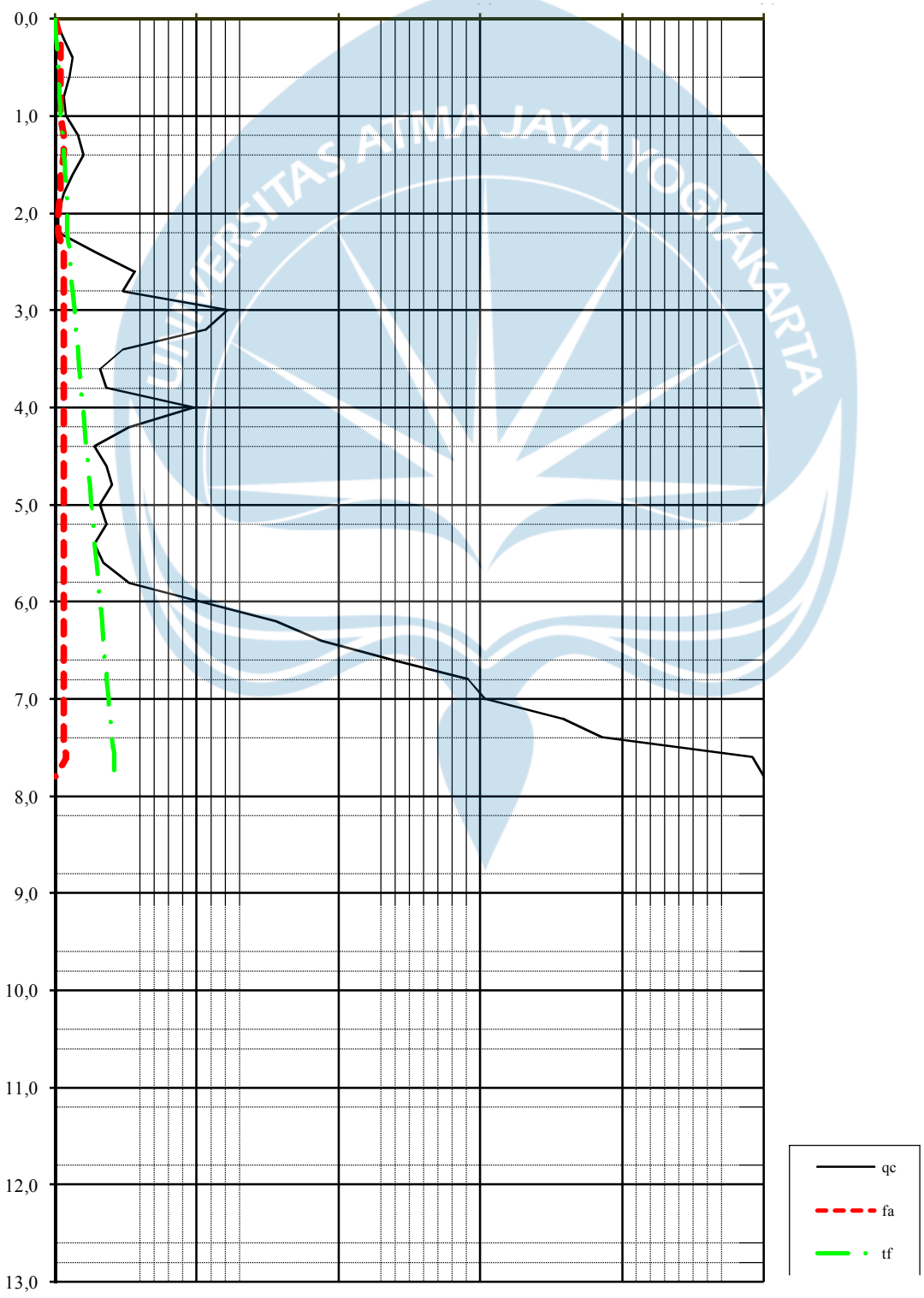
2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 3
Date :

Elevation : -0,50 m dari muka jalan
G.Water Depth : -6,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



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FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 4
ELEVATION : -0,50 m dari muka jalan
G.WATER DEPTH : -6,00 meter dari muka tanah

DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0,00	0	0	0,00								
0,20	2	3	0,10	2	2	10,20					
0,40	4	6	0,20	4	6	10,40					
0,60	5	7	0,20	4	10	10,60					
0,80	8	10	0,20	4	14	10,80					
1,00	4	6	0,20	4	18	11,00					
1,20	6	8	0,20	4	22	11,20					
1,40	5	7	0,20	4	26	11,40					
1,60	8	10	0,20	4	30	11,60					
1,80	12	15	0,30	6	36	11,80					
2,00	14	17	0,30	6	42	12,00					
2,20	11	14	0,30	6	48	12,20					
2,40	21	24	0,30	6	54	12,40					
2,60	19	22	0,30	6	60	12,60					
2,80	23	26	0,30	6	66	12,80					
3,00	22	25	0,30	6	72	13,00					
3,20	19	22	0,30	6	78	13,20					
3,40	26	29	0,30	6	84	13,40					
3,60	32	35	0,30	6	90	13,60					
3,80	56	59	0,30	6	96	13,80					
4,00	87	90	0,30	6	102	14,00					
4,20	121	124	0,30	6	108	14,20					
4,40	68	71	0,30	6	114	14,40					
4,60	56	59	0,30	6	120	14,60					
4,80	64	67	0,30	6	126	14,80					
5,00	70	73	0,30	6	132	15,00					
5,20	59	62	0,30	6	138	15,20					
5,40	84	87	0,30	6	144	15,40					
5,60	108	111	0,30	6	150	15,60					
5,80	133	136	0,30	6	156	15,80					
6,00	159	162	0,30	6	162	16,00					
6,20	148	151	0,30	6	168	16,20					
6,40	164	167	0,30	6	174	16,40					
6,60	182	185	0,30	6	180	16,60					
6,80	199	202	0,30	6	186	16,80					
7,00	246	250	0,40	8	194	17,00					
7,20	250	250	0,00	0	194	17,20					
7,40						17,40					
7,60						17,60					
7,80						17,80					
8,00						18,00					
8,20						18,20					
8,40						18,40					
8,60						18,60					
8,80						18,80					
9,00						19,00					
9,20						19,20					
9,40						19,40					
9,60						19,60					
9,80						19,80					
10,00						20,00					

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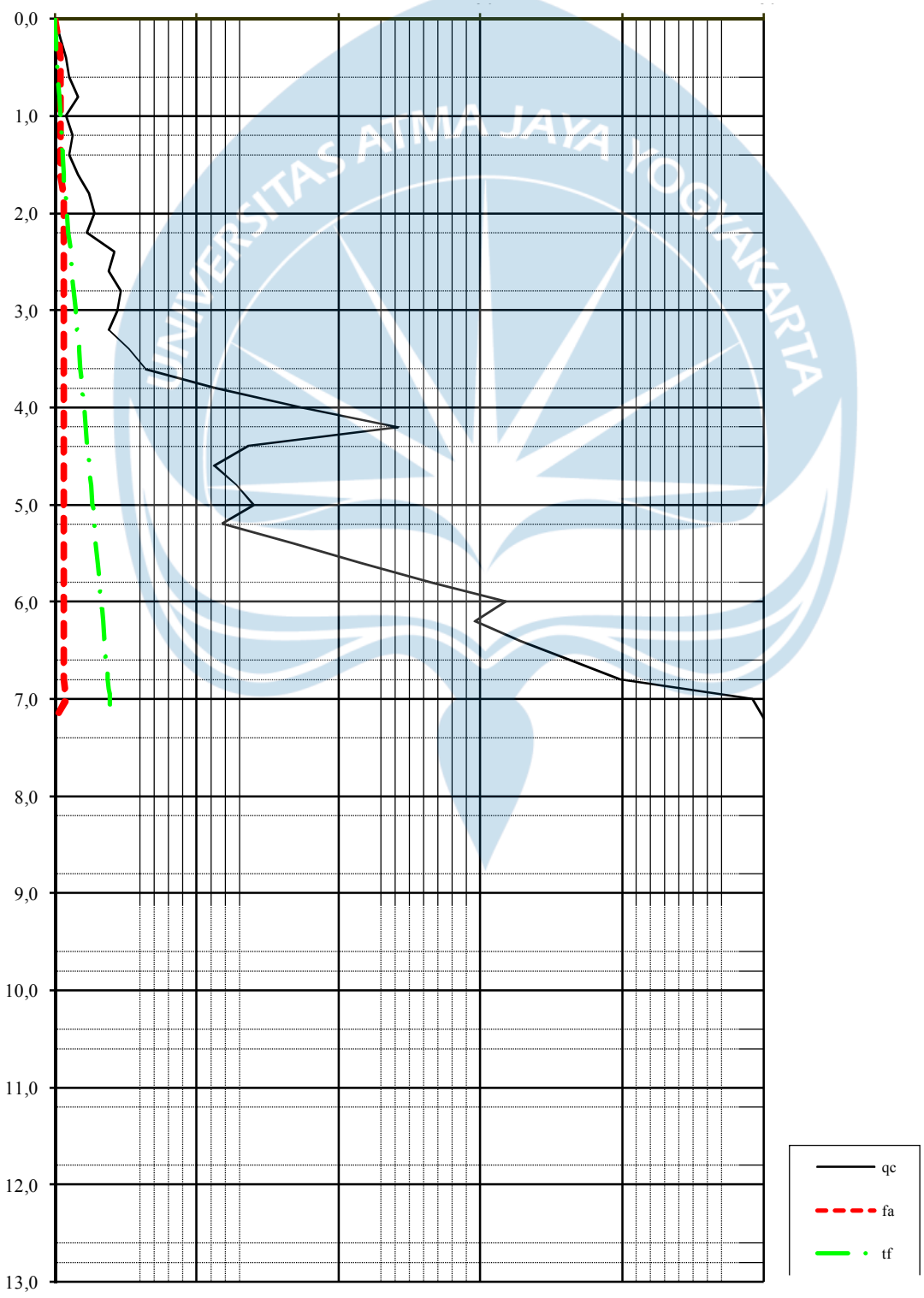
2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 4
Date :

Elevation : -0,50 m dari muka jalan
G.Water Depth : -6,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



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2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 5
ELEVATION : -0,50 m dari muka jalan
G.WATER DEPTH : -6,00 meter dari muka tanah

DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0,00	0	0	0,00								
0,20	2	3	0,10	2	2	10,20					
0,40	5	7	0,20	4	6	10,40					
0,60	4	6	0,20	4	10	10,60					
0,80	6	8	0,20	4	14	10,80					
1,00	5	7	0,20	4	18	11,00					
1,20	8	10	0,20	4	22	11,20					
1,40	11	14	0,30	6	28	11,40					
1,60	9	11	0,20	4	32	11,60					
1,80	12	15	0,30	6	38	11,80					
2,00	14	17	0,30	6	44	12,00					
2,20	16	19	0,30	6	50	12,20					
2,40	22	25	0,30	6	56	12,40					
2,60	20	23	0,30	6	62	12,60					
2,80	16	19	0,30	6	68	12,80					
3,00	21	24	0,30	6	74	13,00					
3,20	37	40	0,30	6	80	13,20					
3,40	26	29	0,30	6	86	13,40					
3,60	39	42	0,30	6	92	13,60					
3,80	34	37	0,30	6	98	13,80					
4,00	49	52	0,30	6	104	14,00					
4,20	53	57	0,40	8	112	14,20					
4,40	26	29	0,30	6	118	14,40					
4,60	14	17	0,30	6	124	14,60					
4,80	19	22	0,30	6	130	14,80					
5,00	22	25	0,30	6	136	15,00					
5,20	24	27	0,30	6	142	15,20					
5,40	23	26	0,30	6	148	15,40					
5,60	48	51	0,30	6	154	15,60					
5,80	101	104	0,30	6	160	15,80					
6,00	134	137	0,30	6	166	16,00					
6,20	128	131	0,30	6	172	16,20					
6,40	140	143	0,30	6	178	16,40					
6,60	174	177	0,30	6	184	16,60					
6,80	196	199	0,30	6	190	16,80					
7,00	246	250	0,40	8	198	17,00					
7,20	250	250	0,00	0	198	17,20					
7,40						17,40					
7,60						17,60					
7,80						17,80					
8,00						18,00					
8,20						18,20					
8,40						18,40					
8,60						18,60					
8,80						18,80					
9,00						19,00					
9,20						19,20					
9,40						19,40					
9,60						19,60					
9,80						19,80					
10,00						20,00					

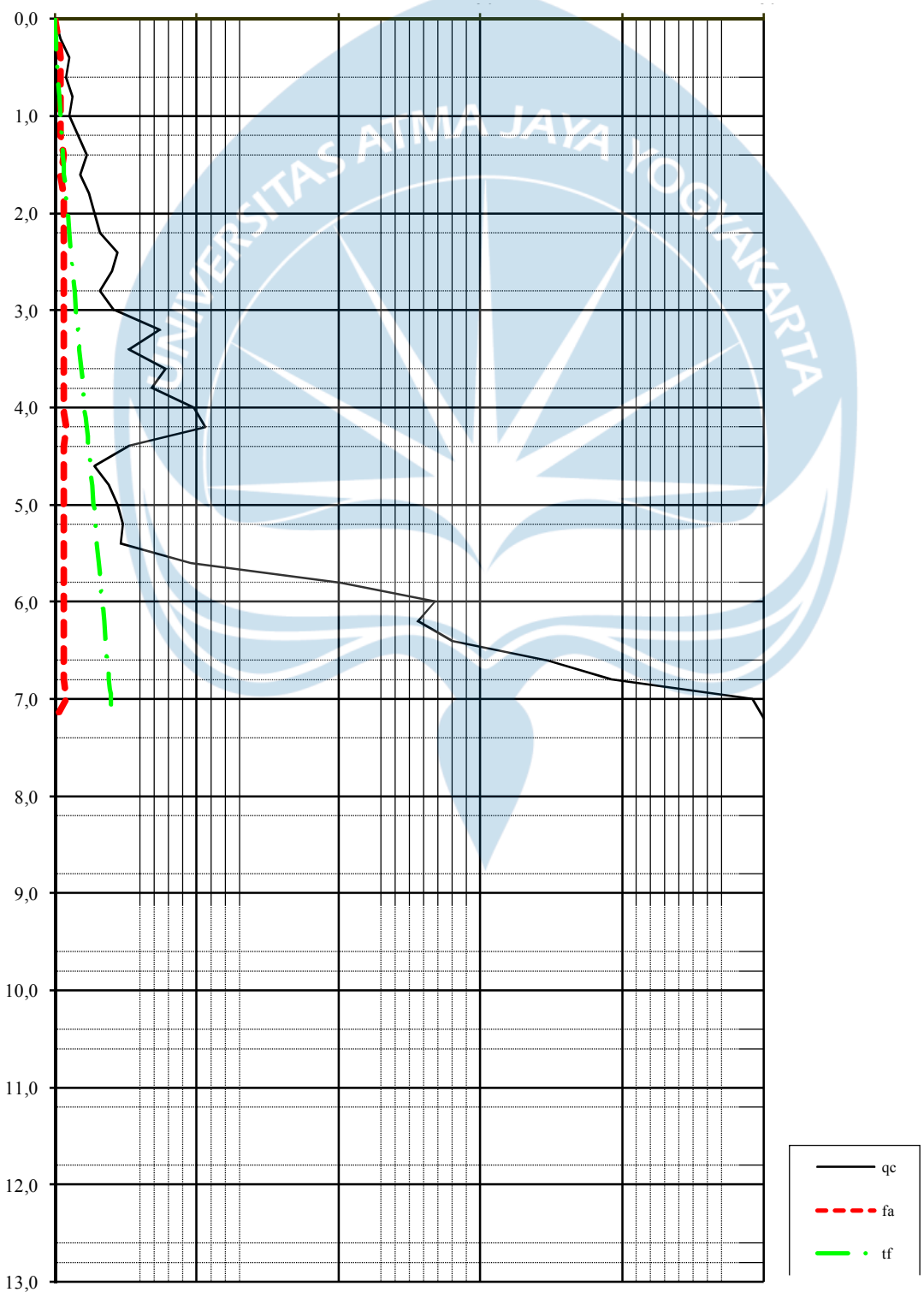
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 5
Date :

Elevation : -0,50 m dari muka jalan
G.Water Depth : -6,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



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DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 6
ELEVATION : -0,50 m dari muka jalan
G.WATER DEPTH : -6,00 meter dari muka tanah

DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0,00	0	0	0,00								
0,20	3	4	0,10	2	2	10,20					
0,40	5	7	0,20	4	6	10,40					
0,60	8	10	0,20	4	10	10,60					
0,80	4	6	0,20	4	14	10,80					
1,00	7	9	0,20	4	18	11,00					
1,20	9	11	0,20	4	22	11,20					
1,40	13	16	0,30	6	28	11,40					
1,60	10	13	0,30	6	34	11,60					
1,80	8	10	0,20	4	38	11,80					
2,00	11	14	0,30	6	44	12,00					
2,20	18	21	0,30	6	50	12,20					
2,40	20	23	0,30	6	56	12,40					
2,60	22	25	0,30	6	62	12,60					
2,80	19	22	0,30	6	68	12,80					
3,00	23	26	0,30	6	74	13,00					
3,20	28	31	0,30	6	80	13,20					
3,40	24	27	0,30	6	86	13,40					
3,60	26	29	0,30	6	92	13,60					
3,80	16	19	0,30	6	98	13,80					
4,00	24	27	0,30	6	104	14,00					
4,20	27	30	0,30	6	110	14,20					
4,40	21	24	0,30	6	116	14,40					
4,60	16	19	0,30	6	122	14,60					
4,80	25	28	0,30	6	128	14,80					
5,00	21	24	0,30	6	134	15,00					
5,20	24	27	0,30	6	140	15,20					
5,40	26	29	0,30	6	146	15,40					
5,60	51	54	0,30	6	152	15,60					
5,80	86	89	0,30	6	158	15,80					
6,00	132	135	0,30	6	164	16,00					
6,20	154	157	0,30	6	170	16,20					
6,40	143	146	0,30	6	176	16,40					
6,60	167	170	0,30	6	182	16,60					
6,80	188	191	0,30	6	188	16,80					
7,00	206	209	0,30	6	194	17,00					
7,20	246	250	0,40	8	202	17,20					
7,40	250	250	0,00	0	202	17,40					
7,60						17,60					
7,80						17,80					
8,00						18,00					
8,20						18,20					
8,40						18,40					
8,60						18,60					
8,80						18,80					
9,00						19,00					
9,20						19,20					
9,40						19,40					
9,60						19,60					
9,80						19,80					
10,00						20,00					

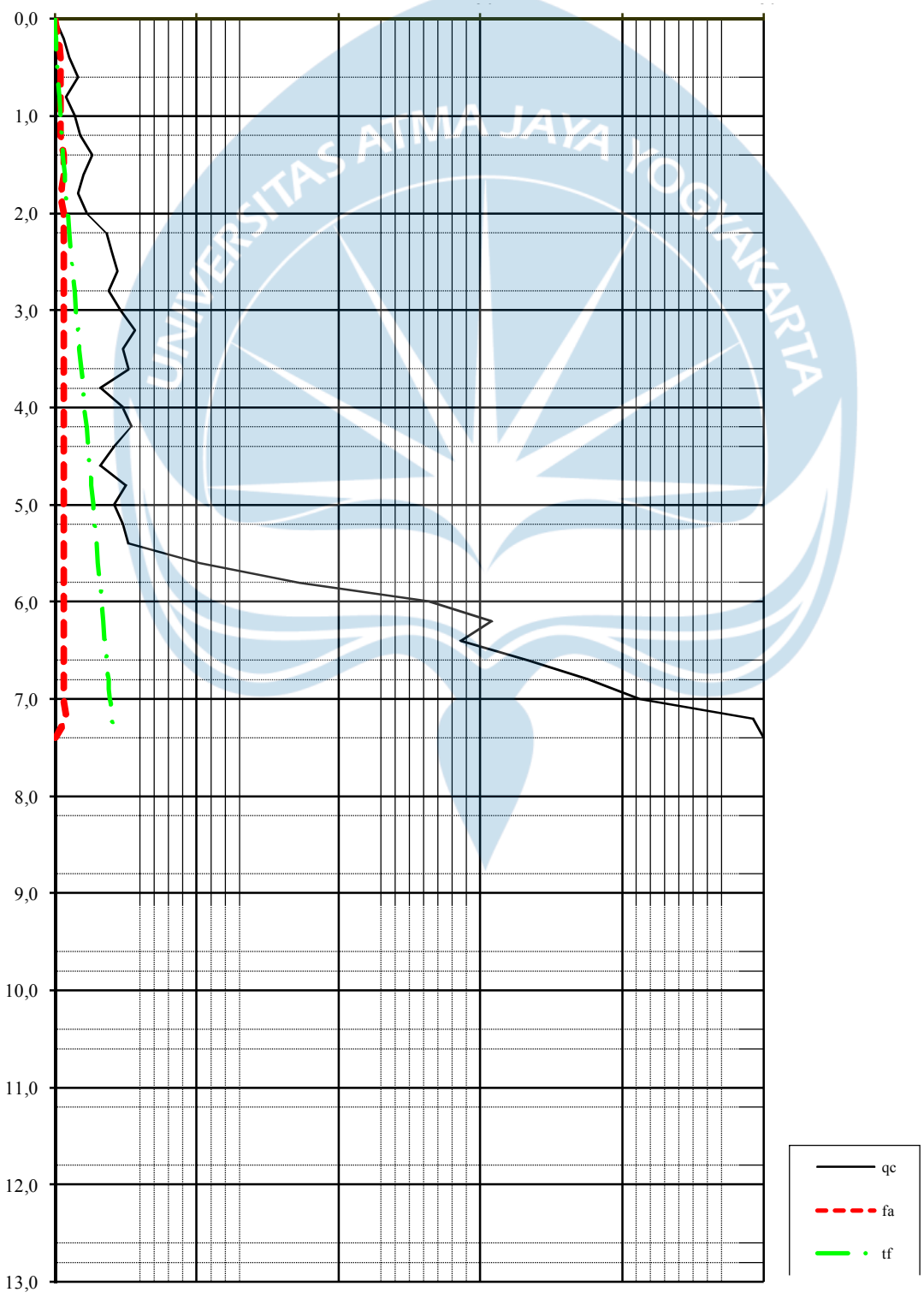
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 6
Date :

Elevation : -0,50 m dari muka jalan
G.Water Depth : -6,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



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2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 7
ELEVATION : -0,50 m dari muka jalan
G.WATER DEPTH : -6,00 meter dari muka tanah

DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0,00	0	0	0,00								
0,20	2	3	0,10	2	2	10,20					
0,40	4	6	0,20	4	6	10,40					
0,60	5	7	0,20	4	10	10,60					
0,80	8	10	0,20	4	14	10,80					
1,00	11	14	0,30	6	20	11,00					
1,20	8	10	0,20	4	24	11,20					
1,40	15	18	0,30	6	30	11,40					
1,60	16	19	0,30	6	36	11,60					
1,80	12	15	0,30	6	42	11,80					
2,00	10	13	0,30	6	48	12,00					
2,20	8	10	0,20	4	52	12,20					
2,40	14	17	0,30	6	58	12,40					
2,60	16	19	0,30	6	64	12,60					
2,80	18	21	0,30	6	70	12,80					
3,00	20	23	0,30	6	76	13,00					
3,20	28	31	0,30	6	82	13,20					
3,40	33	36	0,30	6	88	13,40					
3,60	24	27	0,30	6	94	13,60					
3,80	22	25	0,30	6	100	13,80					
4,00	20	23	0,30	6	106	14,00					
4,20	23	26	0,30	6	112	14,20					
4,40	27	30	0,30	6	118	14,40					
4,60	31	34	0,30	6	124	14,60					
4,80	46	49	0,30	6	130	14,80					
5,00	35	38	0,30	6	136	15,00					
5,20	31	34	0,30	6	142	15,20					
5,40	46	49	0,30	6	148	15,40					
5,60	61	64	0,30	6	154	15,60					
5,80	73	76	0,30	6	160	15,80					
6,00	69	72	0,30	6	166	16,00					
6,20	75	78	0,30	6	172	16,20					
6,40	84	87	0,30	6	178	16,40					
6,60	99	102	0,30	6	184	16,60					
6,80	114	117	0,30	6	190	16,80					
7,00	125	128	0,30	6	196	17,00					
7,20	121	124	0,30	6	202	17,20					
7,40	132	135	0,30	6	208	17,40					
7,60	158	161	0,30	6	214	17,60					
7,80	174	177	0,30	6	220	17,80					
8,00	193	196	0,30	6	226	18,00					
8,20	246	250	0,40	8	234	18,20					
8,40	250	250	0,00	0	234	18,40					
8,60						18,60					
8,80						18,80					
9,00						19,00					
9,20						19,20					
9,40						19,40					
9,60						19,60					
9,80						19,80					
10,00						20,00					

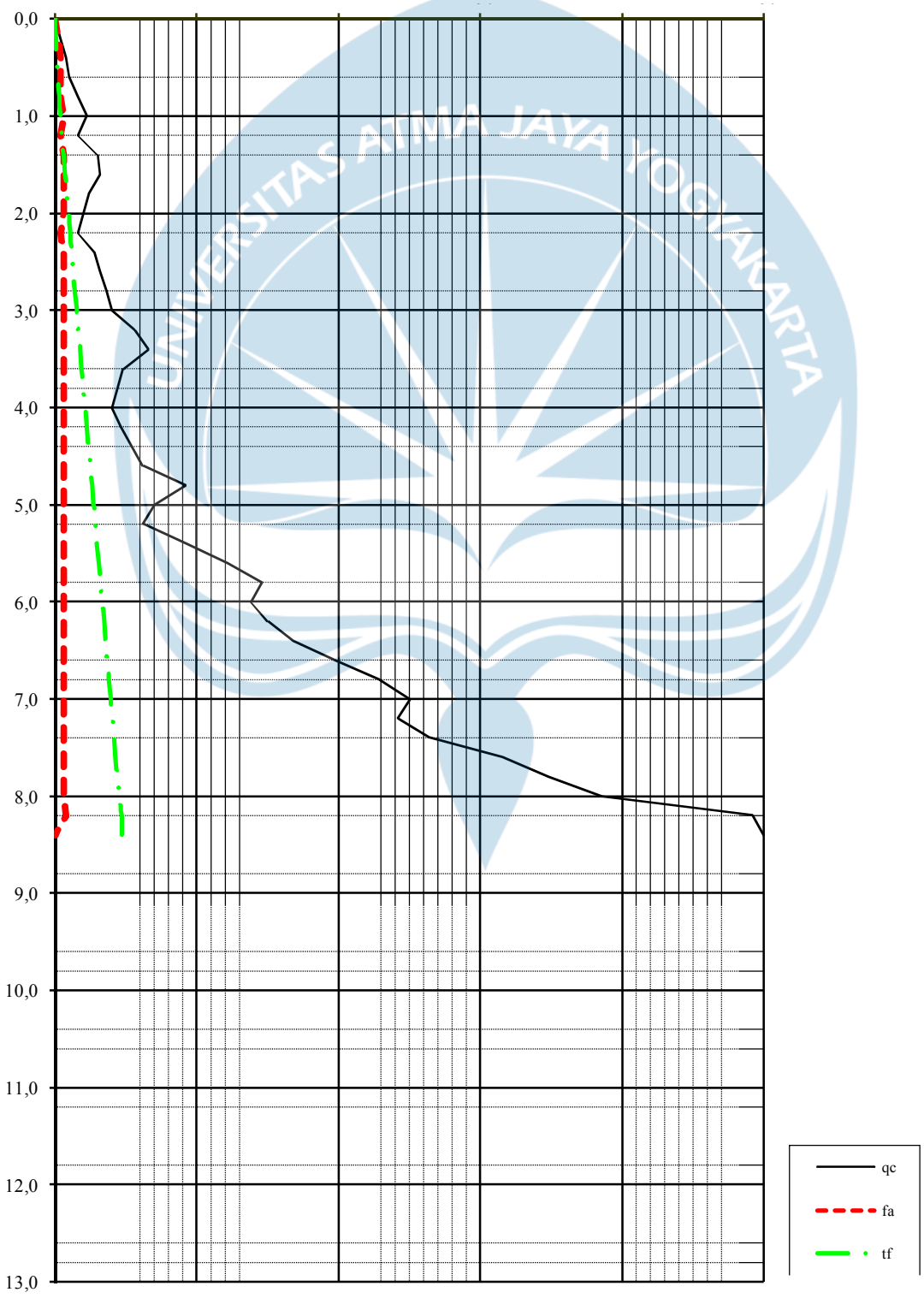
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 7
Date :

Elevation : -0,50 m dari muka jalan
G.Water Depth : -6,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 8
ELEVATION : -0,50 m dari muka jalan
G.WATER DEPTH : -6,00 meter dari muka tanah

DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0,00	0	0	0,00								
0,20	3	5	0,20	4	4	10,20					
0,40	6	8	0,20	4	8	10,40					
0,60	7	9	0,20	4	12	10,60					
0,80	11	14	0,30	6	18	10,80					
1,00	8	10	0,20	4	22	11,00					
1,20	6	8	0,20	4	26	11,20					
1,40	10	13	0,30	6	32	11,40					
1,60	11	14	0,30	6	38	11,60					
1,80	15	18	0,30	6	44	11,80					
2,00	19	22	0,30	6	50	12,00					
2,20	21	24	0,30	6	56	12,20					
2,40	18	21	0,30	6	62	12,40					
2,60	14	17	0,30	6	68	12,60					
2,80	16	19	0,30	6	74	12,80					
3,00	20	23	0,30	6	80	13,00					
3,20	31	34	0,30	6	86	13,20					
3,40	22	25	0,30	6	92	13,40					
3,60	26	29	0,30	6	98	13,60					
3,80	28	31	0,30	6	104	13,80					
4,00	35	38	0,30	6	110	14,00					
4,20	46	49	0,30	6	116	14,20					
4,40	34	37	0,30	6	122	14,40					
4,60	21	24	0,30	6	128	14,60					
4,80	23	26	0,30	6	134	14,80					
5,00	25	28	0,30	6	140	15,00					
5,20	22	25	0,30	6	146	15,20					
5,40	20	23	0,30	6	152	15,40					
5,60	16	19	0,30	6	158	15,60					
5,80	27	30	0,30	6	164	15,80					
6,00	34	37	0,30	6	170	16,00					
6,20	29	32	0,30	6	176	16,20					
6,40	46	49	0,30	6	182	16,40					
6,60	58	61	0,30	6	188	16,60					
6,80	80	83	0,30	6	194	16,80					
7,00	72	75	0,30	6	200	17,00					
7,20	89	92	0,30	6	206	17,20					
7,40	103	106	0,30	6	212	17,40					
7,60	124	127	0,30	6	218	17,60					
7,80	158	161	0,30	6	224	17,80					
8,00	142	145	0,30	6	230	18,00					
8,20	179	182	0,30	6	236	18,20					
8,40	205	208	0,30	6	242	18,40					
8,60	246	250	0,40	8	250	18,60					
8,80	250	250	0,00	0	250	18,80					
9,00						19,00					
9,20						19,20					
9,40						19,40					
9,60						19,60					
9,80						19,80					
10,00						20,00					

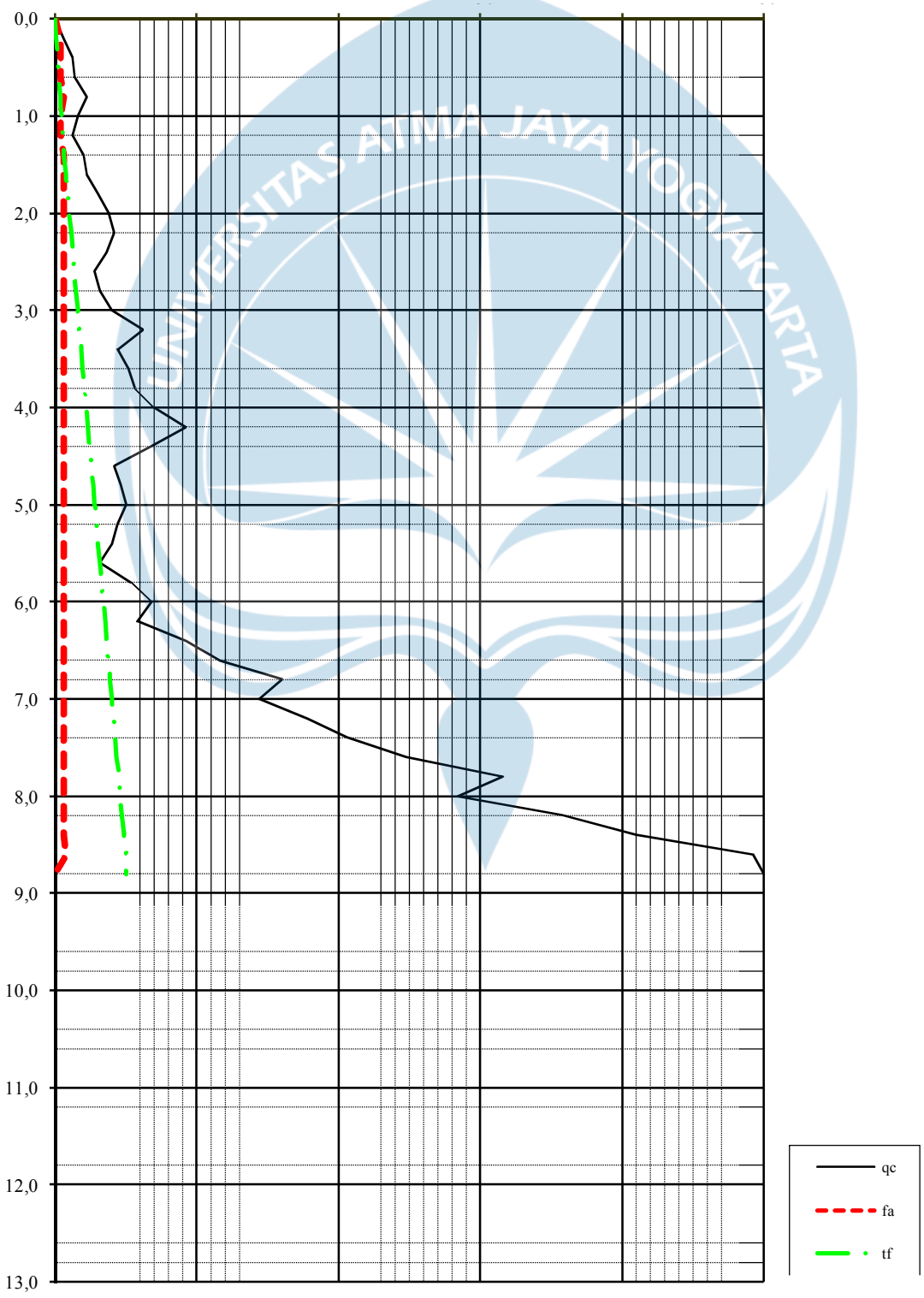
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 8
Date :

Elevation : -0,50 m dari muka jalan
G.Water Depth : -6,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



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SOIL MECHANIC LABORATORY
CIVIL ENGINEERING PROGRAM
FACULTY OF ENGINEERING, UAJY
44 BABARSARI STREET, YOGYAKARTA 55281
Tel: +62-274-487711 ext. 1055
Fax: +62-274-487748

Boring Number:

BH-2

BOR LOG

CLIENT:

PROJECT TITLE :

PROJECT CONTRACT NUMBER:

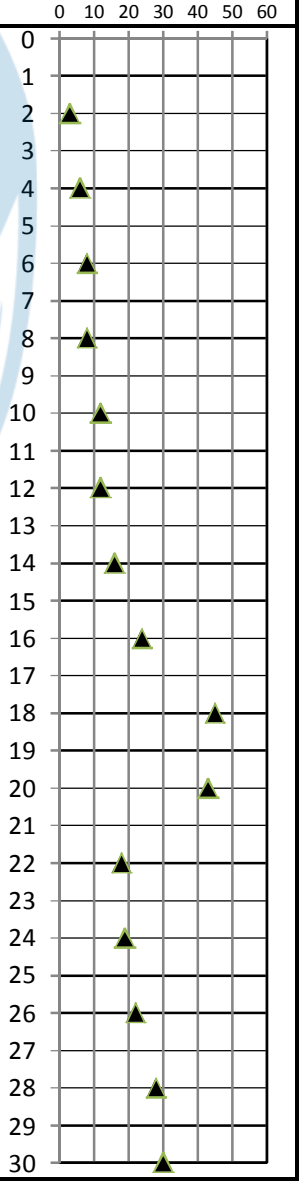
PROJECT LOCATION :

DATE STARTED:
DATE COMPLETED :
DRILLING CONTRACTOR:
DRILLING METHOD: ROTARY SPINDLE, SKID MOUNTED TYPE
LOGGED BY
CHECKED BY

GROUND ELEVATION : -0,50 m from road level
HOLE SIZE : 7.295cm
GROUND WATER LEVEL : - 6,00 m from ground level
WEATHER CONDITION : FINE
ESTIMATED SEASONAL HIGH : -

Depth (m)	Graph Log	Material Description (field observations)	Contact Depth (m)	Sample Number	Blow Counts (N Value) N1	N2	N3	NV	Water Level Elevation (m)
1									
2		Lanau lempung (coklat, abu-abu)	4		1	1	2	3	
3									
4					1	2	4	6	
5		Pasir berlempung (coklat, abu-abu)	2						
6					2	3	5	8	-6.00
7									
8		Pasir berlempung (hitam,abu-abu)	5		3	4	4	8	
9									
10				I	3	5	7	12	
11									
12		Lanau lempung (hitam, abu-abu)	5		4	6	6	12	
13									
14					4	7	9	16	
15				II					
16					6	8	16	24	
17									
18		Pasir berlempung (hitam, abu-abu)	6		8	13	32	45	
19									
20					16	12	31	43	
21									
22					6	9	9	18	
23									
24		Lempung (coklat, abu-abu)	8		6	9	10	19	
25									
26					8	10	12	22	
27									
28					8	12	16	28	
29									
30					9	12	18	30	

SPT Value



Catatan: Pada pengamatan di lapangan, lanau bisa tampak seperti pasir halus atau pasir sangat halus

Laboratorium Mekanika Tanah
UNIVERSITAS ATMA JAYA YOGYAKARTA
Fakultas Teknik - Program Studi Teknik Sipil
Jl. Babarsari No. 44 Yogyakarta 55281 Indonesia
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

REKAP HASIL PENGUJIAN TANAH

Proyek :
Lokasi :
Tanggal :

Titik	Kedalaman (m)	Kadar Air (%)	Berat Jenis (G)	γ_b (gr/cm^3)	γ_k (gr/cm^3)	Pengujian Geser Langsung	
						c (kg/cm^2)	θ°
BH 2	10,00	41,08	2,35	1,56	1,11	0,09	10,65
	15,00	58,39	2,29	1,50	0,95	0,14	7,98

Lab. Mekanika Tanah FT-UAJY,
Staf,

Laboratorium Mekanika Tanah
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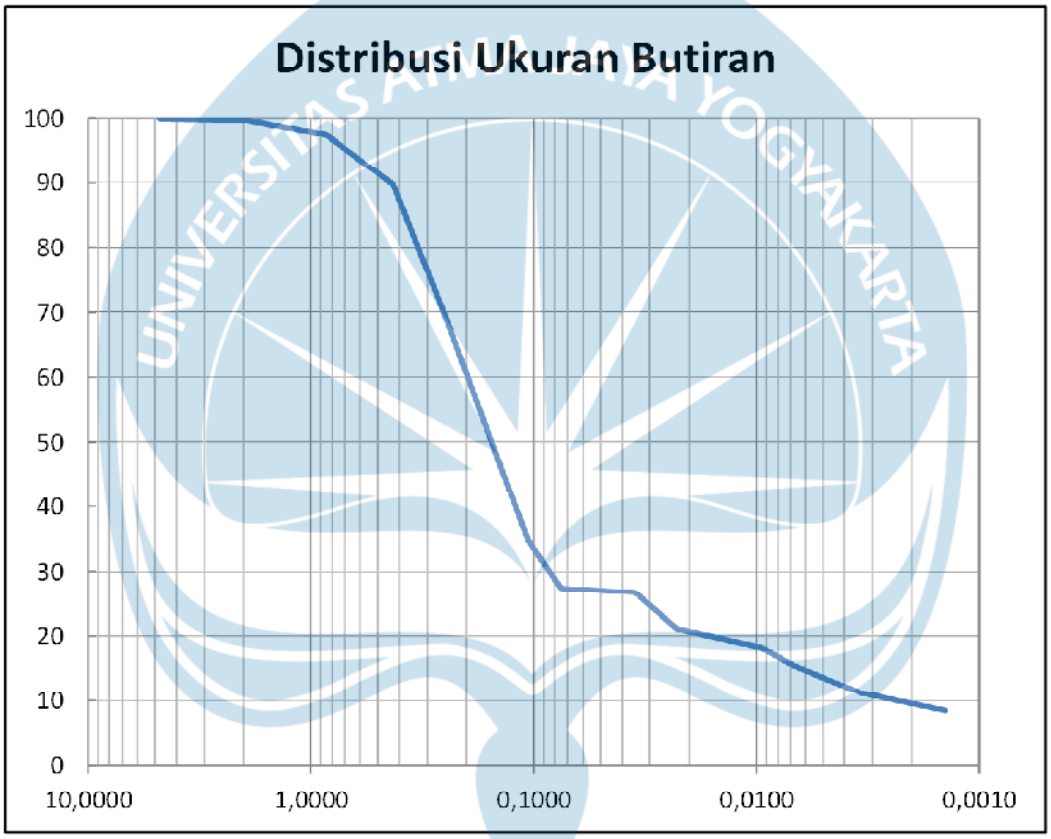
Jl. Babarsari No. 44 Yogyakarta 55281 Indonesia
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH 2
Kedalaman: 10



No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4,750	0,00	100,00	100,00
10	2,000	0,19	99,81	99,81
20	0,850	2,29	97,52	97,52
40	0,425	7,79	89,73	89,73
60	0,250	20,01	69,72	69,72
140	0,106	34,82	34,90	34,90
200	0,075	7,45	27,45	27,45
Pan		27,45		

Laboratorium Mekanika Tanah
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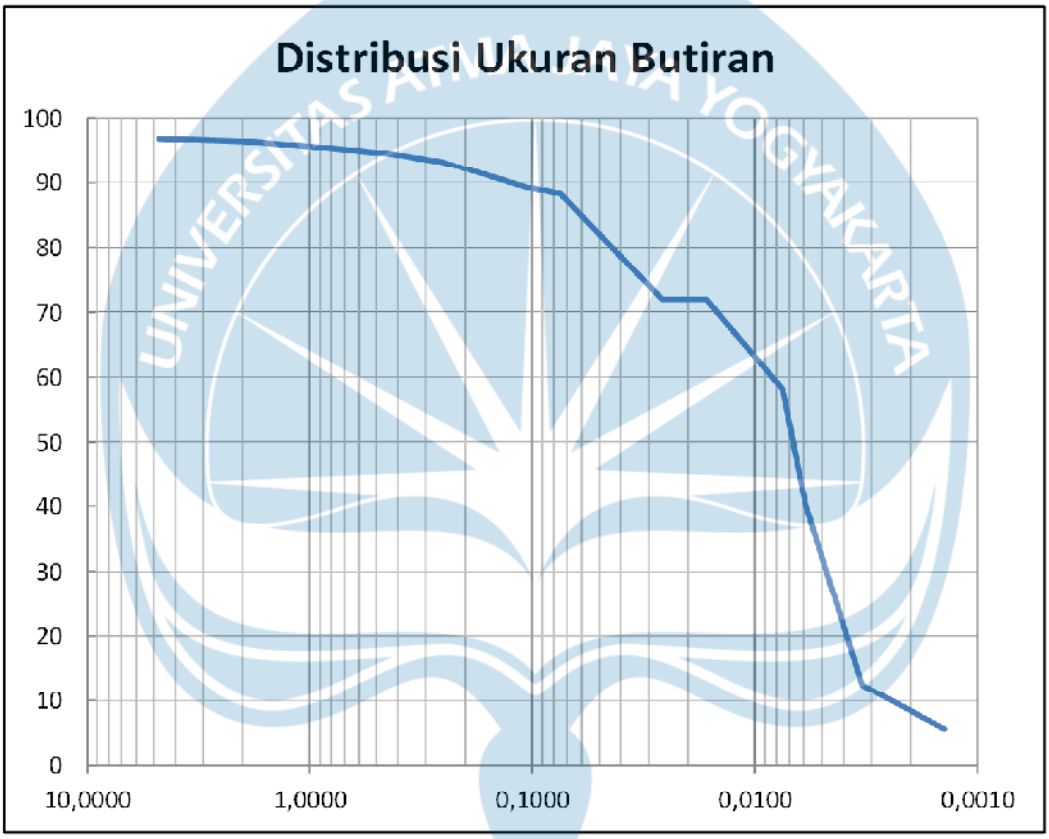
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH 2
Kedalaman: 15



No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4,750	3,06	96,94	96,94
10	2,000	0,46	96,48	96,48
20	0,850	0,99	95,49	95,49
40	0,425	0,99	94,50	94,50
60	0,250	1,29	93,21	93,21
140	0,106	3,93	89,28	89,28
200	0,075	0,94	88,34	88,34
Pan		88,34		

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SOIL MECHANIC LABORATORY
CIVIL ENGINEERING PROGRAM
FACULTY OF ENGINEERING, UAJY
44 BABARSARI STREET, YOGYAKARTA 55281
Tel: +62-274-487711 ext. 1055
Fax: +62-274-487748

Boring Number:

BH-3

BOR LOG

CLIENT:

PROJECT TITLE :

PROJECT CONTRACT NUMBER:

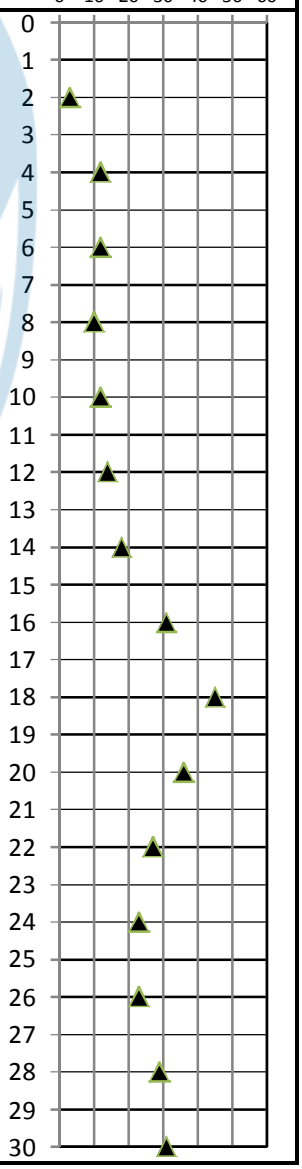
PROJECT LOCATION :

DATE STARTED:
DATE COMPLETED :
DRILLING CONTRACTOR:
DRILLING METHOD: ROTARY SPINDLE, SKID MOUNTED TYPE
LOGGED BY:
CHECKED BY:

GROUND ELEVATION : -0,50 m from road level
HOLE SIZE : 7.295cm
GROUND WATER LEVEL : - 6,00 m from ground level
WEATHER CONDITION : FINE
ESTIMATED SEASONAL HIGH : -

Depth (m)	Graph Log	Material Description (field observations)	Contact Depth (m)	Sample Number	Blow Counts (N Value) N1	N2	N3	NV	Water Level Elevation (m)
1									
2		Lanau (coklat, abu-abu)	4		1	1	2	3	
3									
4					3	5	7	12	
5		Pasir berlempung (coklat, abu-abu)	2						
6					3	6	6	12	-6.00
7									
8					3	5	5	10	
9									
10				I	3	5	7	12	
11									
12		Lanau (hitam, abu-abu)	10		4	7	7	14	
13									
14					4	7	11	18	
15									
16					6	12	19	31	
17									
18		Pasir berlempung (coklat, abu-abu)	5		11	16	29	45	
19									
20				II	10	14	22	36	
21									
22		Lempung (coklat, abu-abu)	9		8	12	15	27	
23									
24					7	10	13	23	
25									
26					7	11	12	23	
27									
28					9	12	17	29	
29									
30					9	12	19	31	

SPT Value



Catatan: Pada pengamatan di lapangan, lanau bisa tampak seperti pasir halus atau pasir sangat halus

Laboratorium Mekanika Tanah
UNIVERSITAS ATMA JAYA YOGYAKARTA
Fakultas Teknik - Program Studi Teknik Sipil
Jl. Babarsari No. 44 Yogyakarta 55281 Indonesia
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

REKAP HASIL PENGUJIAN TANAH

Proyek :
Lokasi :
Tanggal :

Titik	Kedalaman (m)	Kadar Air (%)	Berat Jenis (G)	γ_b (gr/cm^3)	γ_k (gr/cm^3)	Pengujian Geser Langsung	
						c (kg/cm^2)	θ°
BH3	10,00	51,47	2,32	1,53	1,01	0,18	10,44
	20,00	50,40	2,52	1,63	1,08	0,11	15,50

Lab. Mekanika Tanah FT-UAJY,
Staf,

Laboratorium Mekanika Tanah
UNIVERSITAS ATMA JAYA YOGYAKARTA
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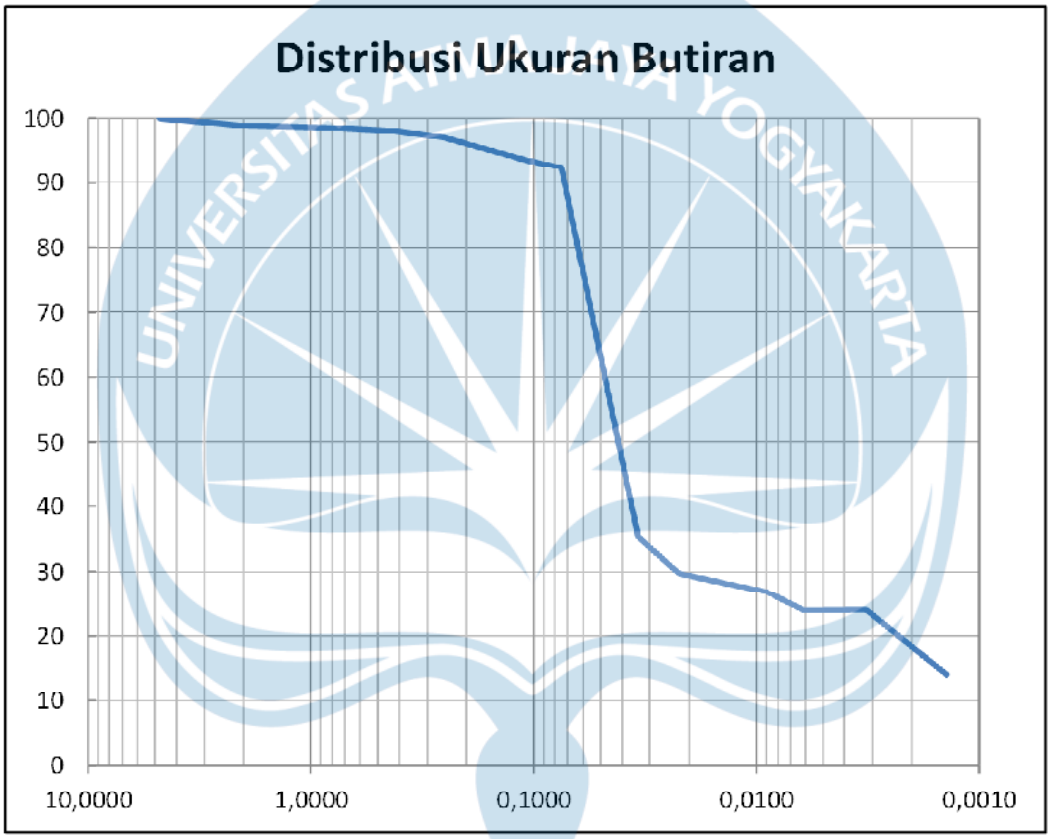
Jl. Babarsari No. 44 Yogyakarta 55281 Indonesia
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH3
Kedalaman: 10



No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4,750	0,00	100,00	100,00
10	2,000	1,06	98,94	98,94
20	0,850	0,32	98,62	98,62
40	0,425	0,49	98,13	98,13
60	0,250	1,00	97,13	97,13
140	0,106	3,61	93,52	93,52
200	0,075	1,02	92,50	92,50
Pan		92,50		

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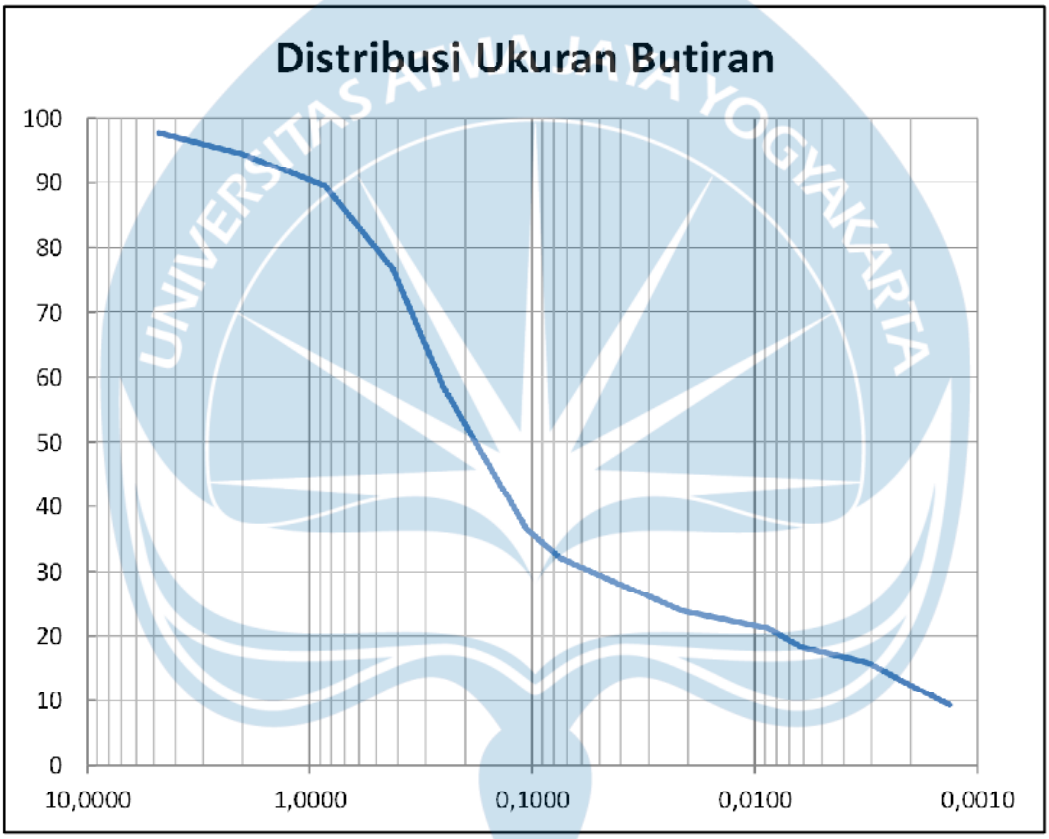
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH3
Kedalaman: 20



No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4,750	2,20	97,80	97,80
10	2,000	3,27	94,53	94,53
20	0,850	5,08	89,45	89,45
40	0,425	12,62	76,83	76,83
60	0,250	18,38	58,45	58,45
140	0,106	21,92	36,53	36,53
200	0,075	4,44	32,09	32,09
Pan		32,09		

SOIL MECHANIC LABORATORY
CIVIL ENGINEERING PROGRAM
FACULTY OF ENGINEERING, UAJY
44 BABARSARI STREET, YOGYAKARTA 55281
Tel: +62-274-487711 ext. 1055
Fax: +62-274-487748

Boring Number:

BH-4

BOR LOG

CLIENT:

PROJECT TITLE :

PROJECT CONTRACT NUMBER:

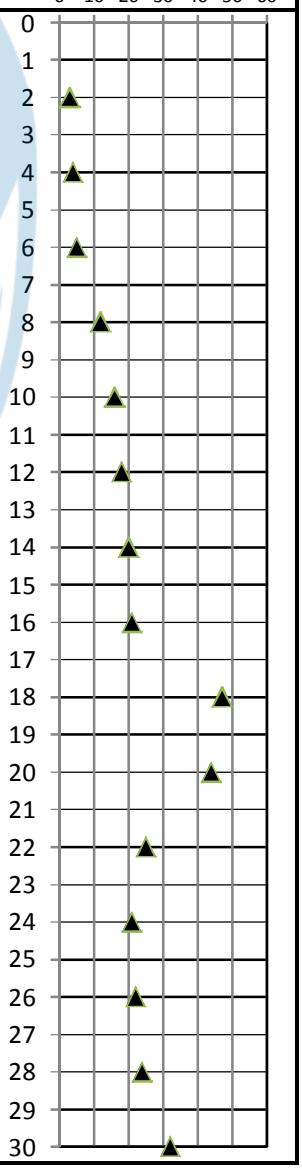
PROJECT LOCATION :

DATE STARTED:
DATE COMPLETED :
DRILLING CONTRACTOR:
DRILLING METHOD: ROTARY SPINDLE, SKID MOUNTED TYPE
LOGGED BY:
CHECKED BY:

GROUND ELEVATION : -0,50 m from road level
HOLE SIZE : 7.295cm
GROUND WATER LEVEL : - 6,00 m from ground level
WEATHER CONDITION : FINE
ESTIMATED SEASONAL HIGH : -

Depth (m)	Graph Log	Material Description (field observations)	Contact Depth (m)	Sample Number	Blow Counts (N Value) N1	N2	N3	NV	Water Level Elevation (m)
1									
2		Lanau (coklat, abu-abu)	4		1	1	2	3	
3									
4					1	2	2	4	
5		Pasir berlempung (coklat, abu-abu)	2	I					
6					2	2	3	5	-6.00
7		Lanau pasir berlempung (hitam)	6						
8					3	5	7	12	
9									
10				II	4	7	9	16	
11									
12					5	8	10	18	
13		Lanau (hitam, abu-abu)	4						
14					5	8	12	20	
15									
16					5	8	13	21	
17		Pasir berlempung (coklat, hitam)	5						
18					10	16	31	47	
19									
20					12	15	29	44	
21									
22		Lempung (coklat, hitam)	9		8	10	15	25	
23									
24					6	8	13	21	
25									
26					6	9	13	22	
27									
28					7	9	15	24	
29									
30					8	11	21	32	

SPT Value



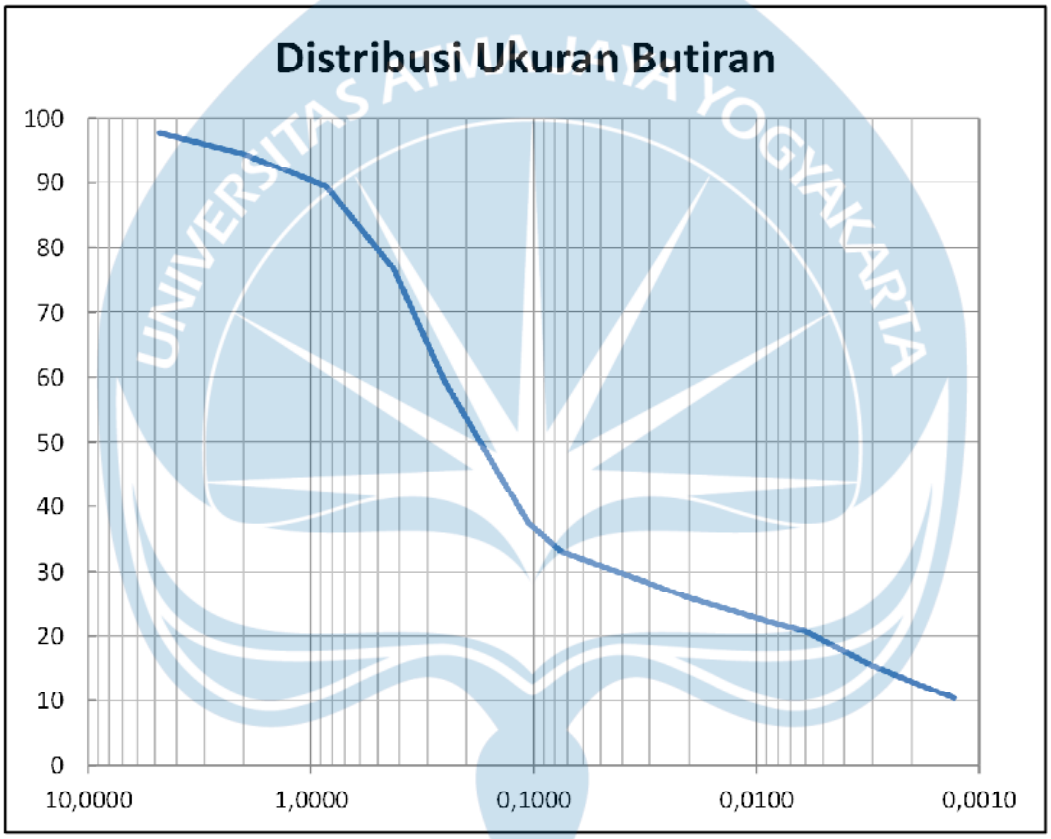
Catatan: Pada pengamatan di lapangan, lanau bisa tampak seperti pasir halus atau pasir sangat halus

Laboratorium Mekanika Tanah
UNIVERSITAS ATMA JAYA YOGYAKARTA
Fakultas Teknik - Program Studi Teknik Sipil
Jl. Babarsari No. 44 Yogyakarta 55281 Indonesia
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH 4
Kedalaman: 5



No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4,750	2,2	97,8	98
10	2,000	3,3	94,5	95
20	0,850	5,1	89,43	89
40	0,425	12,6	76,81	77
60	0,250	17,4	59,43	59
140	0,106	21,9	37,51	38
200	0,075	4,4	33,07	33
Pan		33,07		

Laboratorium Mekanika Tanah
UNIVERSITAS ATMA JAYA YOGYAKARTA
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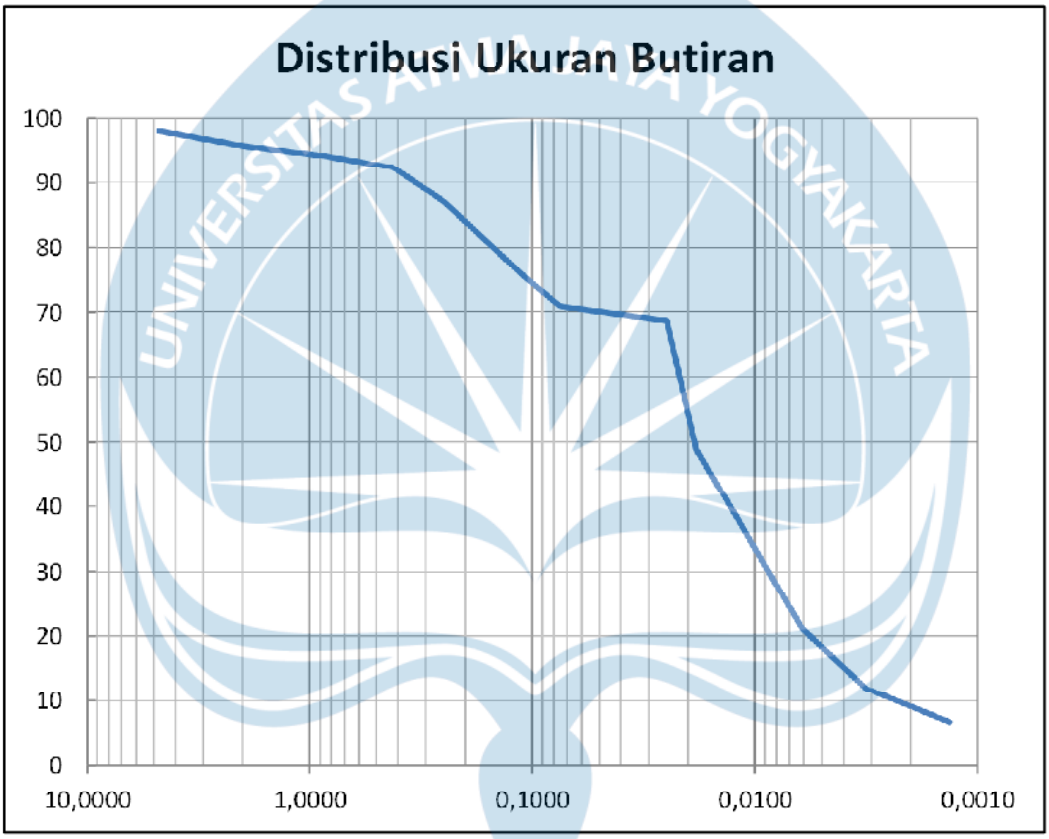
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH 4
Kedalaman: 10



No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4,750	1,9	98,1	98
10	2,000	2,3	95,8	96
20	0,850	1,6	94,2	94
40	0,425	1,8	92,5	92
60	0,250	5,4	87,1	87
140	0,106	11,9	75,25	75
200	0,075	4,4	70,8	71
Pan		70,8		

Laboratorium Mekanika Tanah
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Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

REKAP HASIL PENGUJIAN TANAH

Proyek :
Lokasi :
Tanggal :

Titik	Kedalaman (m)	Kadar Air (%)	Berat Jenis (G)	γ_b (gr/cm^3)	γ_k (gr/cm^3)	Pengujian Geser Langsung	
						c (kg/cm^2)	θ°
BH 4	5,00	38,92	2,58	1,56	1,12	0,13	11,68
	10,00	54,26	2,53	1,58	1,02	0,11	11,84

SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. :
ELEVATION : ±0,00 m dari muka jalan
G.WATER DEPTH : -6,00 meter dari muka tanah

DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0,00	0	0	0,00								
0,20	4	6	0,20	4	4	10,20					
0,40	8	10	0,20	4	8	10,40					
0,60	11	14	0,30	6	14	10,60					
0,80	9	12	0,30	6	20	10,80					
1,00	11	14	0,30	6	26	11,00					
1,20	18	21	0,30	6	32	11,20					
1,40	22	25	0,30	6	38	11,40					
1,60	16	19	0,30	6	44	11,60					
1,80	14	17	0,30	6	50	11,80					
2,00	19	22	0,30	6	56	12,00					
2,20	24	27	0,30	6	62	12,20					
2,40	22	25	0,30	6	68	12,40					
2,60	36	39	0,30	6	74	12,60					
2,80	61	64	0,30	6	80	12,80					
3,00	23	26	0,30	6	86	13,00					
3,20	32	35	0,30	6	92	13,20					
3,40	39	42	0,30	6	98	13,40					
3,60	121	124	0,30	6	104	13,60					
3,80	126	129	0,30	6	110	13,80					
4,00	110	113	0,30	6	116	14,00					
4,20	101	104	0,30	6	122	14,20					
4,40	62	65	0,30	6	128	14,40					
4,60	36	39	0,30	6	134	14,60					
4,80	34	37	0,30	6	140	14,80					
5,00	30	33	0,30	6	146	15,00					
5,20	23	26	0,30	6	152	15,20					
5,40	18	21	0,30	6	158	15,40					
5,60	14	17	0,30	6	164	15,60					
5,80	25	28	0,30	6	170	15,80					
6,00	13	16	0,30	6	176	16,00					
6,20	16	19	0,30	6	182	16,20					
6,40	24	27	0,30	6	188	16,40					
6,60	72	75	0,30	6	194	16,60					
6,80	59	62	0,30	6	200	16,80					
7,00	84	87	0,30	6	206	17,00					
7,20	126	129	0,30	6	212	17,20					
7,40	164	167	0,30	6	218	17,40					
7,60	198	201	0,30	6	224	17,60					
7,80	246	250	0,40	8	232	17,80					
8,00	250	250	0,00	0	232	18,00					
8,20						18,20					
8,40						18,40					
8,60						18,60					
8,80						18,80					
9,00						19,00					
9,20						19,20					
9,40						19,40					
9,60						19,60					
9,80						19,80					
10,00						20,00					

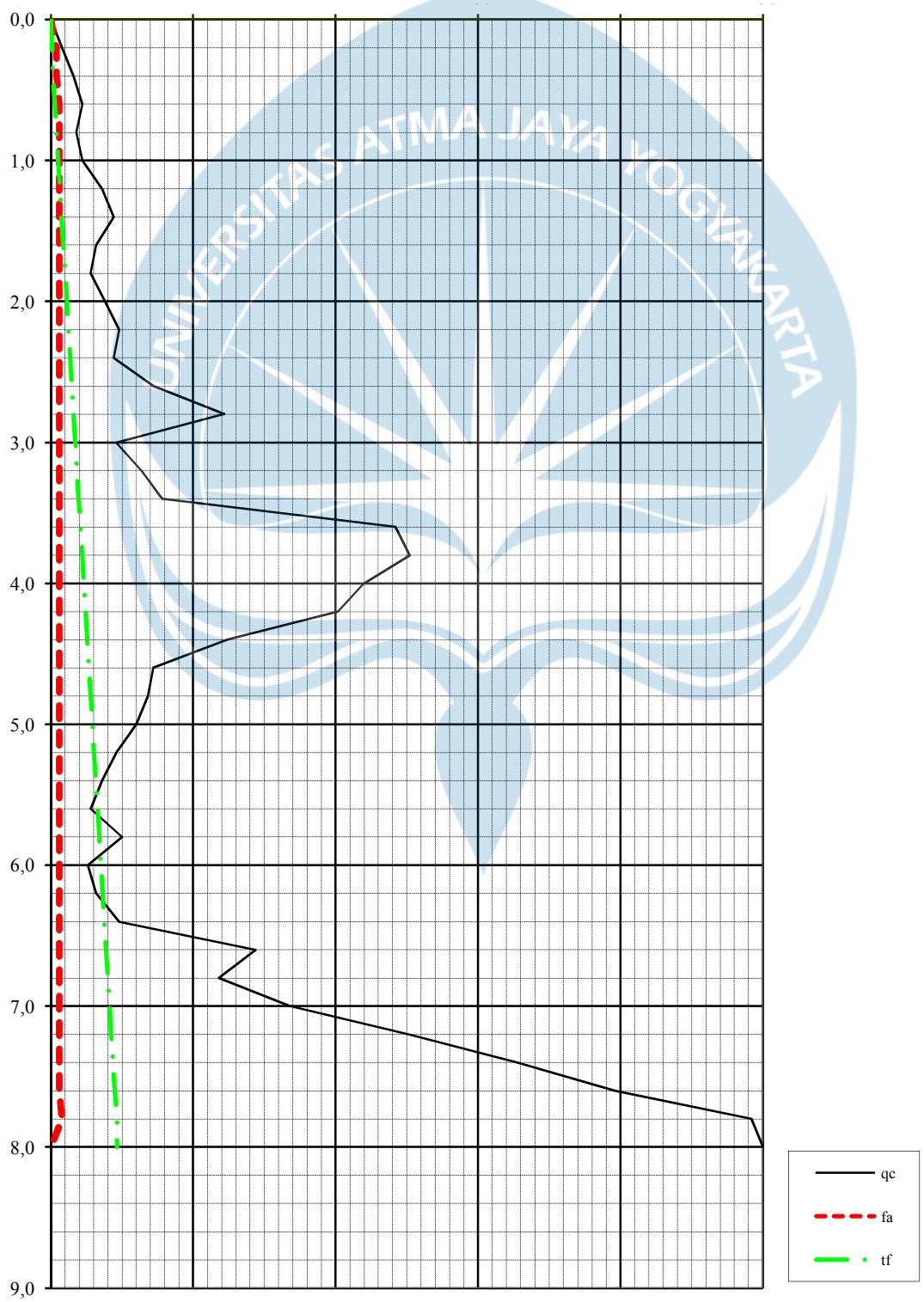
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 1
Date :

Elevation : ±0,00 m dari muka jalan
G.Water Depth : -6,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 2
ELEVATION : +0,40 m dari muka jalan
G.WATER DEPTH : -6,00 meter dari muka tanah

DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0,00	0	0	0,00								
0,20	5	7	0,20	4	4	10,20					
0,40	13	16	0,30	6	10	10,40					
0,60	21	24	0,30	6	16	10,60					
0,80	15	18	0,30	6	22	10,80					
1,00	11	14	0,30	6	28	11,00					
1,20	18	21	0,30	6	34	11,20					
1,40	40	43	0,30	6	40	11,40					
1,60	34	37	0,30	6	46	11,60					
1,80	26	29	0,30	6	52	11,80					
2,00	31	34	0,30	6	58	12,00					
2,20	30	33	0,30	6	64	12,20					
2,40	44	47	0,30	6	70	12,40					
2,60	39	42	0,30	6	76	12,60					
2,80	86	89	0,30	6	82	12,80					
3,00	28	31	0,30	6	88	13,00					
3,20	51	54	0,30	6	94	13,20					
3,40	36	39	0,30	6	100	13,40					
3,60	32	35	0,30	6	106	13,60					
3,80	58	61	0,30	6	112	13,80					
4,00	90	93	0,30	6	118	14,00					
4,20	87	90	0,30	6	124	14,20					
4,40	109	112	0,30	6	130	14,40					
4,60	134	137	0,30	6	136	14,60					
4,80	143	146	0,30	6	142	14,80					
5,00	175	178	0,30	6	148	15,00					
5,20	189	192	0,30	6	154	15,20					
5,40	246	250	0,40	8	162	15,40					
5,60	250	250	0,00	0	162	15,60					
5,80						15,80					
6,00						16,00					
6,20						16,20					
6,40						16,40					
6,60						16,60					
6,80						16,80					
7,00						17,00					
7,20						17,20					
7,40						17,40					
7,60						17,60					
7,80						17,80					
8,00						18,00					
8,20						18,20					
8,40						18,40					
8,60						18,60					
8,80						18,80					
9,00						19,00					
9,20						19,20					
9,40						19,40					
9,60						19,60					
9,80						19,80					
10,00						20,00					

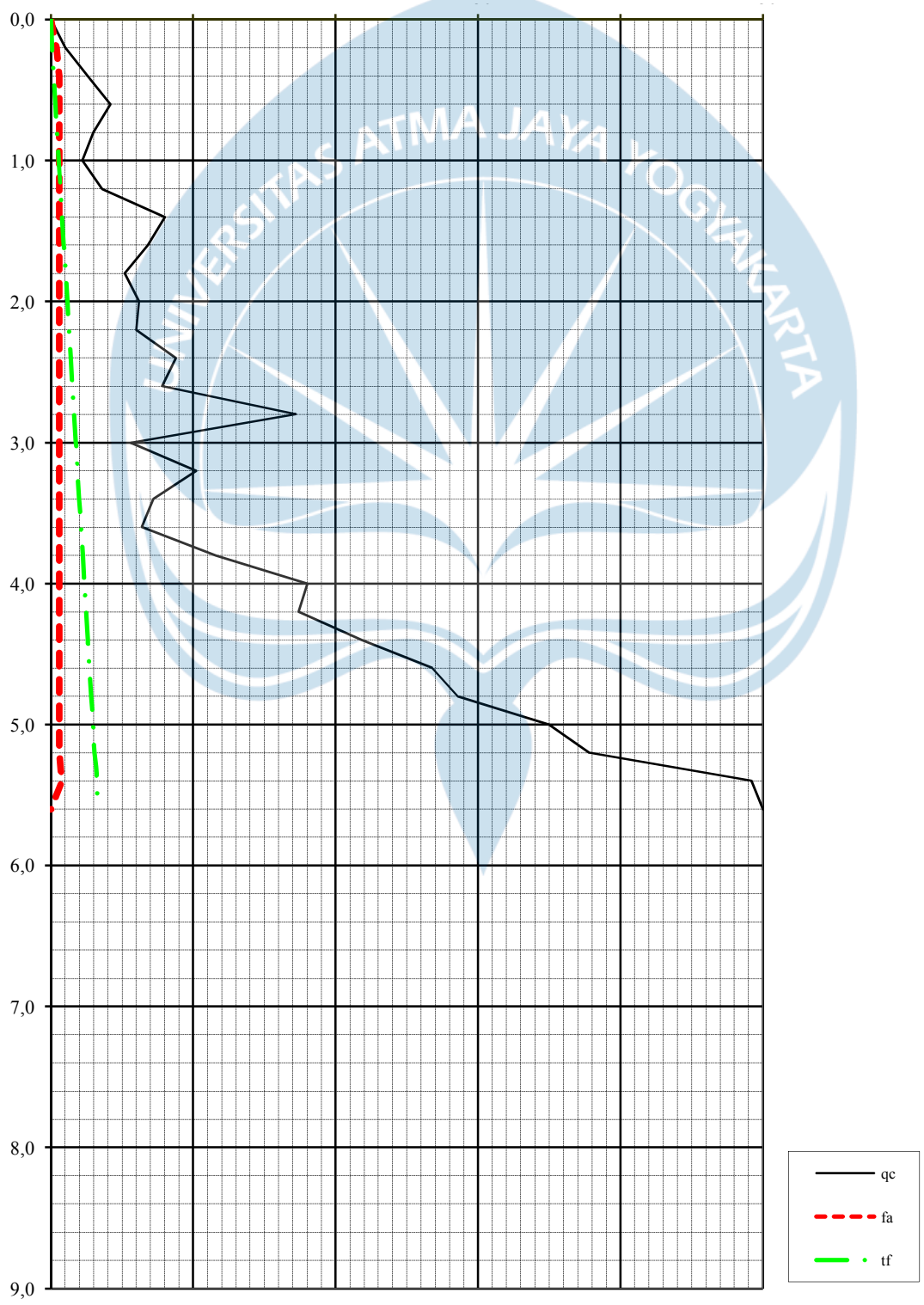
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 2
Date :

Elevation : +0,40 m dari muka jalan
G.Water Depth : -6,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



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DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 3
ELEVATION : +0,40 m dari muka jalan
G.WATER DEPTH : -6,00 meter dari muka tanah

DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0,00	0	0	0,00								
0,20	7	9	0,20	4	4	10,20					
0,40	12	15	0,30	6	10	10,40					
0,60	28	31	0,30	6	16	10,60					
0,80	11	15	0,40	8	24	10,80					
1,00	9	12	0,30	6	30	11,00					
1,20	16	19	0,30	6	36	11,20					
1,40	20	23	0,30	6	42	11,40					
1,60	12	15	0,30	6	48	11,60					
1,80	14	17	0,30	6	54	11,80					
2,00	13	16	0,30	6	60	12,00					
2,20	21	24	0,30	6	66	12,20					
2,40	19	22	0,30	6	72	12,40					
2,60	12	15	0,30	6	78	12,60					
2,80	18	21	0,30	6	84	12,80					
3,00	23	26	0,30	6	90	13,00					
3,20	31	34	0,30	6	96	13,20					
3,40	29	32	0,30	6	102	13,40					
3,60	11	14	0,30	6	108	13,60					
3,80	54	57	0,30	6	114	13,80					
4,00	113	116	0,30	6	120	14,00					
4,20	149	152	0,30	6	126	14,20					
4,40	126	129	0,30	6	132	14,40					
4,60	89	92	0,30	6	138	14,60					
4,80	44	47	0,30	6	144	14,80					
5,00	56	59	0,30	6	150	15,00					
5,20	32	35	0,30	6	156	15,20					
5,40	34	37	0,30	6	162	15,40					
5,60	38	41	0,30	6	168	15,60					
5,80	51	54	0,30	6	174	15,80					
6,00	18	21	0,30	6	180	16,00					
6,20	24	27	0,30	6	186	16,20					
6,40	23	26	0,30	6	192	16,40					
6,60	26	29	0,30	6	198	16,60					
6,80	119	122	0,30	6	204	16,80					
7,00	86	89	0,30	6	210	17,00					
7,20	56	59	0,30	6	216	17,20					
7,40	91	94	0,30	6	222	17,40					
7,60	143	146	0,30	6	228	17,60					
7,80	189	192	0,30	6	234	17,80					
8,00	246	250	0,40	8	242	18,00					
8,20	250	250	0,00	0	242	18,20					
8,40						18,40					
8,60						18,60					
8,80						18,80					
9,00						19,00					
9,20						19,20					
9,40						19,40					
9,60						19,60					
9,80						19,80					
10,00						20,00					

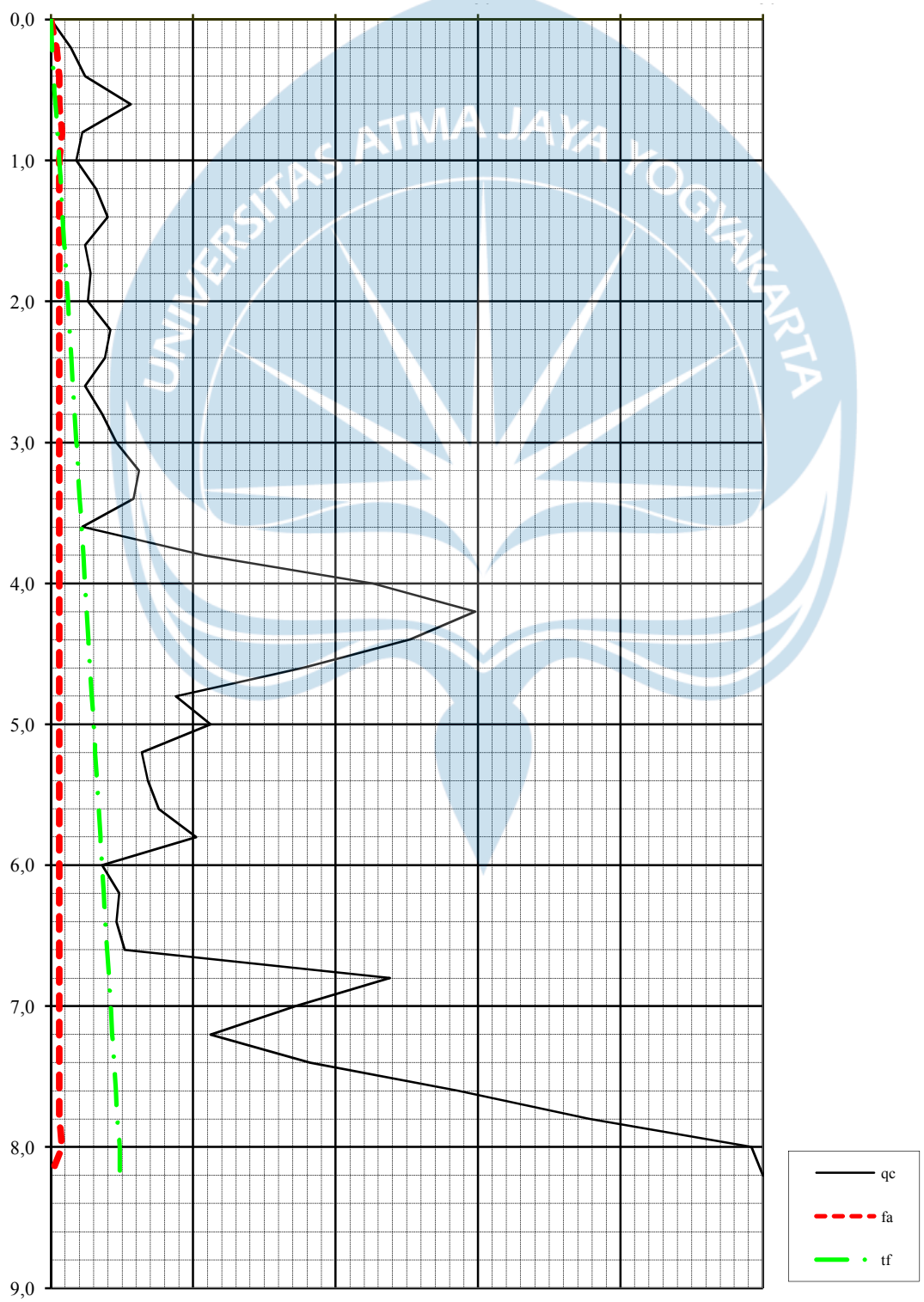
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 3
Date :

Elevation : +0,40 m dari muka jalan
G.Water Depth : -6,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
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2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 4
ELEVATION : +0,40 m dari muka jalan
G.WATER DEPTH : -6,00 meter dari muka tanah

DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0,00	0	0	0,00								
0,20	6	8	0,20	4	4	10,20					
0,40	13	16	0,30	6	10	10,40					
0,60	17	20	0,30	6	16	10,60					
0,80	21	24	0,30	6	22	10,80					
1,00	14	17	0,30	6	28	11,00					
1,20	12	15	0,30	6	34	11,20					
1,40	14	17	0,30	6	40	11,40					
1,60	16	19	0,30	6	46	11,60					
1,80	23	26	0,30	6	52	11,80					
2,00	28	31	0,30	6	58	12,00					
2,20	25	28	0,30	6	64	12,20					
2,40	41	44	0,30	6	70	12,40					
2,60	34	37	0,30	6	76	12,60					
2,80	29	32	0,30	6	82	12,80					
3,00	76	79	0,30	6	88	13,00					
3,20	87	90	0,30	6	94	13,20					
3,40	61	64	0,30	6	100	13,40					
3,60	19	22	0,30	6	106	13,60					
3,80	36	39	0,30	6	112	13,80					
4,00	95	98	0,30	6	118	14,00					
4,20	71	74	0,30	6	124	14,20					
4,40	93	96	0,30	6	130	14,40					
4,60	116	119	0,30	6	136	14,60					
4,80	84	87	0,30	6	142	14,80					
5,00	45	48	0,30	6	148	15,00					
5,20	37	40	0,30	6	154	15,20					
5,40	59	62	0,30	6	160	15,40					
5,60	50	53	0,30	6	166	15,60					
5,80	44	47	0,30	6	172	15,80					
6,00	20	23	0,30	6	178	16,00					
6,20	24	27	0,30	6	184	16,20					
6,40	36	39	0,30	6	190	16,40					
6,60	38	41	0,30	6	196	16,60					
6,80	91	94	0,30	6	202	16,80					
7,00	116	119	0,30	6	208	17,00					
7,20	163	166	0,30	6	214	17,20					
7,40	198	201	0,30	6	220	17,40					
7,60	246	250	0,40	8	228	17,60					
7,80	250	250	0,00	0	228	17,80					
8,00						18,00					
8,20						18,20					
8,40						18,40					
8,60						18,60					
8,80						18,80					
9,00						19,00					
9,20						19,20					
9,40						19,40					
9,60						19,60					
9,80						19,80					
10,00						20,00					

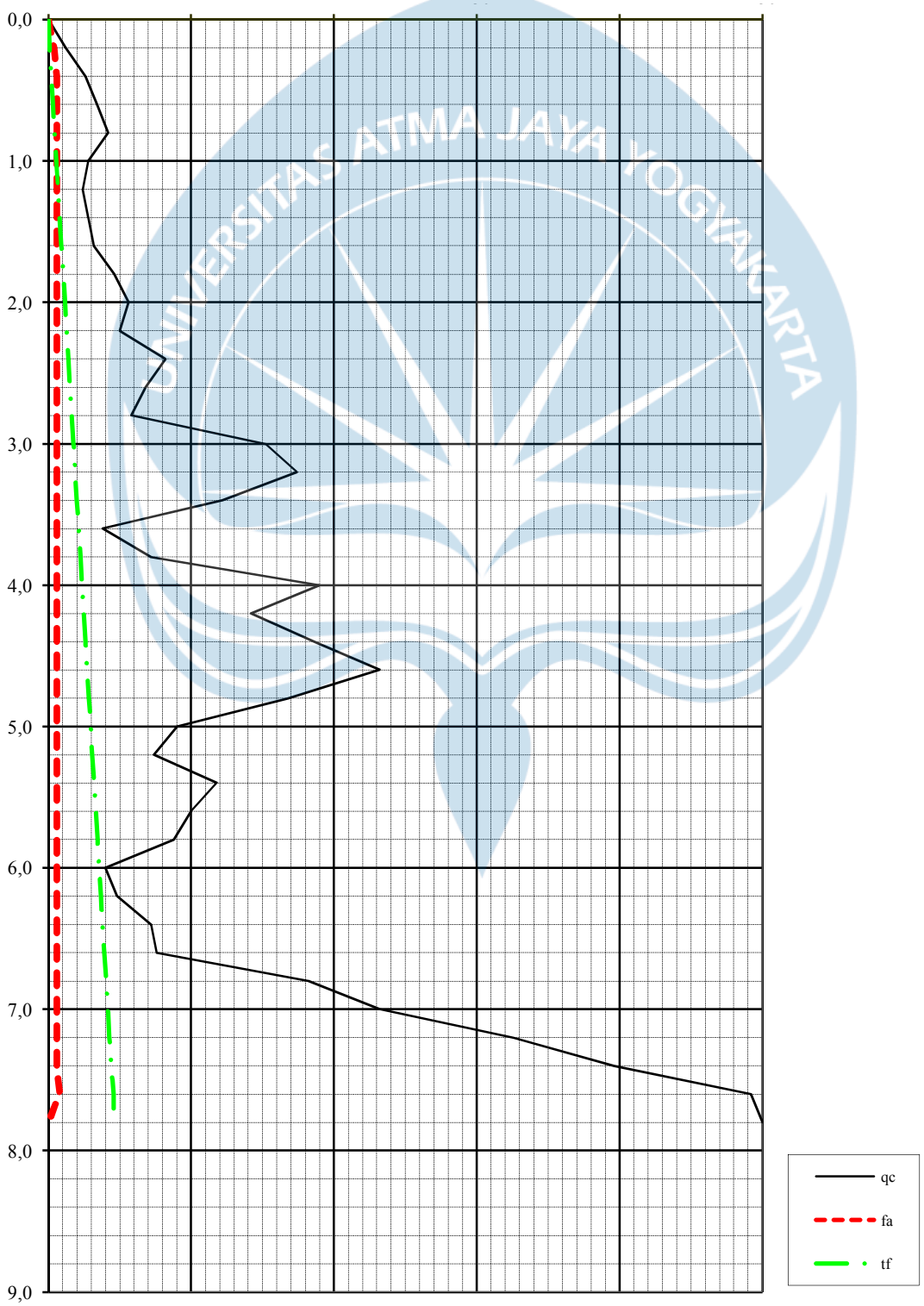
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 4
Date :

Elevation : +0,40 m dari muka jalan
G.Water Depth : -6,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



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SOIL MECHANIC LABORATORY
CIVIL ENGINEERING PROGRAM
FACULTY OF ENGINEERING, UAJY
44 BABARSARI STREET, YOGYAKARTA 55281
Tel: +62-274-487711 ext. 1055
Fax: +62-274-487748

Boring Number:

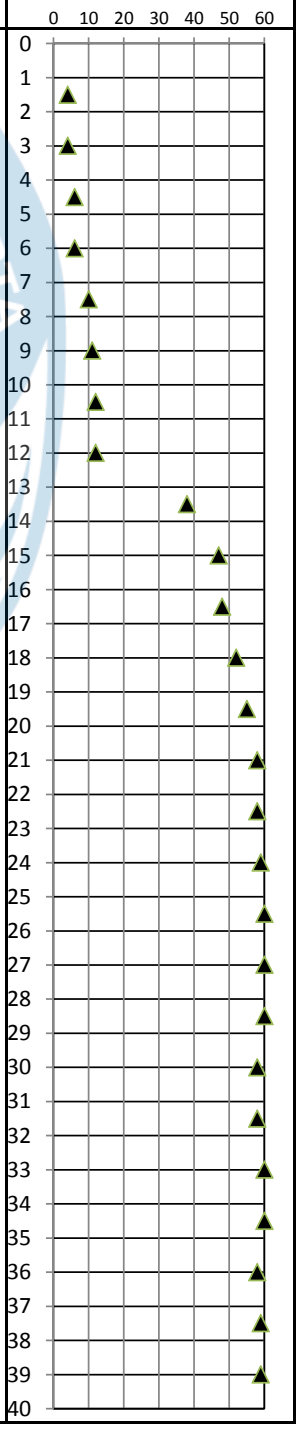
BH-1

BOR LOG

CLIENT:
PROJECT CONTRACT NUMBER:
DATE STARTED:
DATE COMPLETED :
DRILLING CONTRACTOR:
DRILLING METHOD: ROTARY SPINDLE, SKID MOUNTED TYPE
LOGGED BY:
CHECKED BY:

PROJECT TITLE :
PROJECT LOCATION :
GROUND ELEVATION : - 0,50 m from road level
HOLE SIZE : 7.295cm
GROUND WATER LEVEL : - 6,00 m from ground level
WEATHER CONDITION : FINE
ESTIMATED SEASONAL HIGH : -

Depth (m)	Material Description (field observations)	Contact Depth (m)	Sample Number	Blow Counts (N Value) N1	N2	N3	Nv	Water Level Elevation (m)
1	Lanau berpasir (coklat)	2						
2			I	1	2	2	4	
3	Lanau sedikit lempung (coklat, abu-abu)	3		1	2	2	4	
4								
5				2	3	3	6	
6	Lanau sedikit lempung (coklat)	3		2	3	3	6	6.00
7			II					
8				3	5	5	10	
9	Lempung lanau berpasir (coklat, abu-abu)	5		3	5	6	11	
10								
11				4	6	6	12	
12				4	6	6	12	
13								
14	Lempung lanau berpasir (coklat, hitam)	5		7	17	21	38	
15			III	9	19	28	47	
16								
17				9	19	29	48	
18				12	19	33	52	
19	Pasir (coklat, hitam)	7						
20			IV	16	22	33	55	
21				17	24	34	58	
22								
23				17	26	32	58	
24				17	25	34	59	
25			V					
26	Lanau sedikit lempung (coklat, abu-abu)	7		19	25	35	60	
27				19	24	36	60	
28								
29				19	26	34	60	
30			VI	19	22	36	58	
31								
32				19	22	36	58	
33	Lanau sedikit lempung (coklat)	8		18	24	36	60	
34								
35				18	25	35	60	
36				17	22	36	58	
37								
38				17	22	37	59	
39				18	24	35	59	
40								



Catatan: Pada pengamatan di lapangan, lanau bisa tampak seperti pasir halus atau pasir sangat halus

Laboratorium Mekanika Tanah
UNIVERSITAS ATMA JAYA YOGYAKARTA
Fakultas Teknik - Program Studi Teknik Sipil
Jl. Babarsari No. 44 Yogyakarta 55281 Indonesia
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

REKAP HASIL PENGUJIAN TANAH

Proyek :
Lokasi :
Tanggal :

Titik	Kedalaman (m)	Kadar Air (%)	Berat Jenis (G)	γ_b (gr/cm^3)	γ_k (gr/cm^3)	Pengujian Geser Langsung	
						c (kg/cm^2)	θ˚
BH 1	1,50	57,21	2,46	1,41	0,90	0,02	15,55
	7,00	60,49	2,45	1,59	0,99	0,11	7,72
	10,00	51,03	2,46	1,63	1,08	0,18	13,05
	20,00	41,11	2,63	1,96	1,39	0,02	26,02
	25,00	22,67	2,63	1,76	1,44	0,01	25,85
	30,00	42,76	2,42	1,64	1,15	0,10	23,10

Laboratorium Mekanika Tanah
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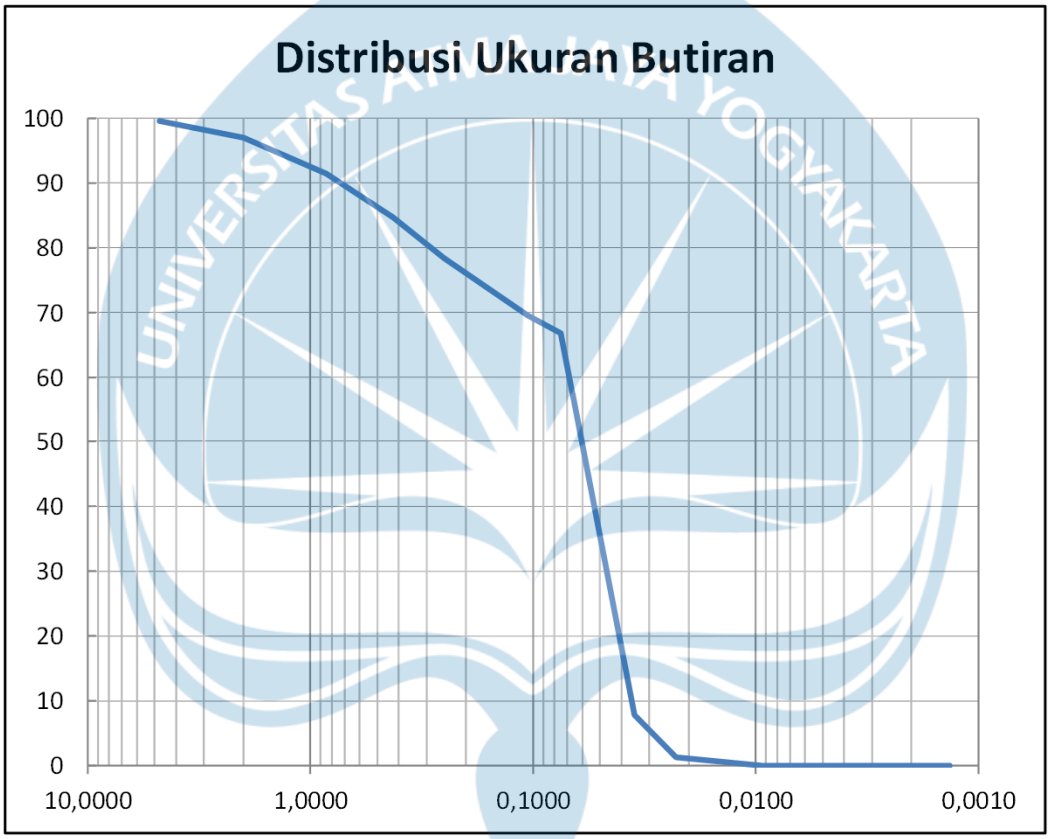
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH 1
Kedalaman: 1,5 m



No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4,750	0,4	99,6	99,60
10	2,000	2,6	97,0	97,01
20	0,850	5,5	91,51	91,51
40	0,425	6,8	84,72	84,72
60	0,250	6,3	78,38	78,38
140	0,106	8,8	69,62	69,62
200	0,075	2,8	66,86	66,86
Pan		66,86		

Laboratorium Mekanika Tanah
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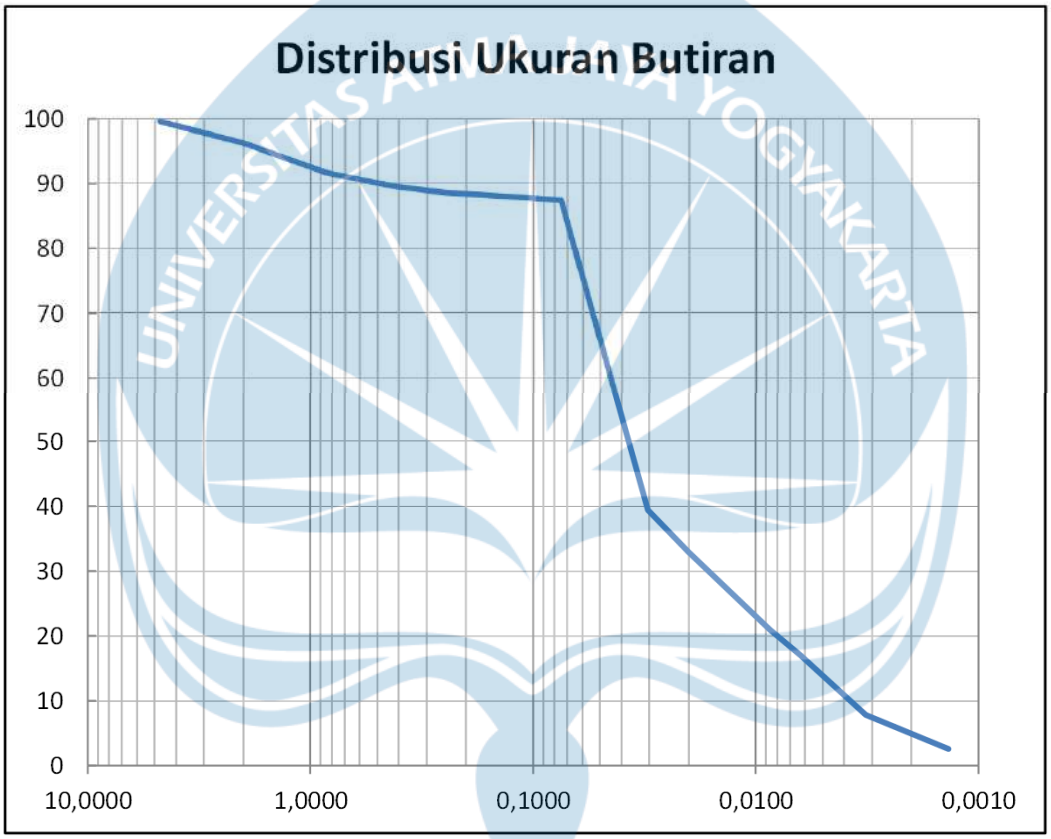
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH 1
Kedalaman: 7 m



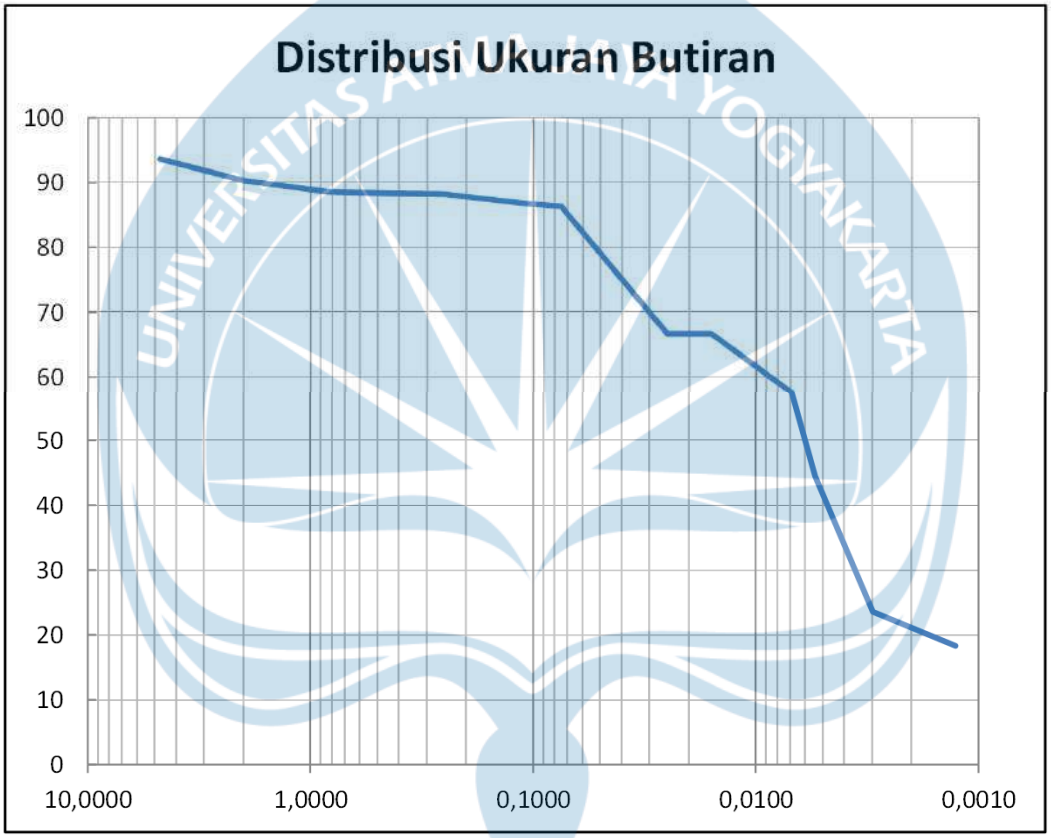
No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4,750	0,4	99,6	99,59
10	2,000	3,4	96,2	96,20
20	0,850	4,6	91,62	91,62
40	0,425	2,0	89,61	89,61
60	0,250	1,0	88,6	88,60
140	0,106	0,8	87,76	87,76
200	0,075	0,4	87,4	87,40
Pan		87,40		

Laboratorium Mekanika Tanah
UNIVERSITAS ATMA JAYA YOGYAKARTA
Fakultas Teknik - Program Studi Teknik Sipil
Jl. Babarsari No. 44 Yogyakarta 55281 Indonesia
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH 1
Kedalaman: 10 m



No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4,750	6,3	93,7	93,68
10	2,000	3,4	90,2	90,24
20	0,850	1,6	88,64	88,64
40	0,425	0,3	88,31	88,31
60	0,250	0,1	88,22	88,22
140	0,106	1,5	86,76	86,76
200	0,075	0,4	86,32	86,32
Pan		86,32		

Laboratorium Mekanika Tanah
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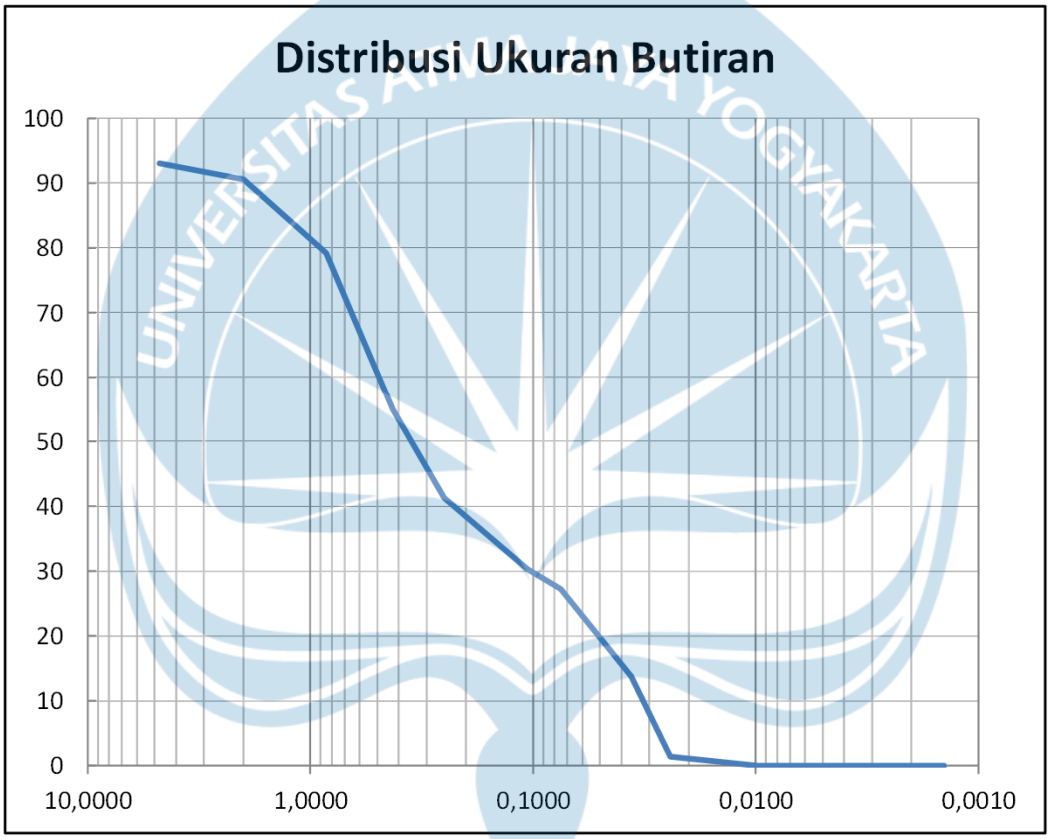
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH 1
Kedalaman: 20 m



No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4,750	7,0	93,0	93,04
10	2,000	2,5	90,5	90,53
20	0,850	11,4	79,16	79,16
40	0,425	24,2	54,92	54,92
60	0,250	13,6	41,29	41,29
140	0,106	11,0	30,28	30,28
200	0,075	3,0	27,27	27,27
Pan		27,27		

Laboratorium Mekanika Tanah
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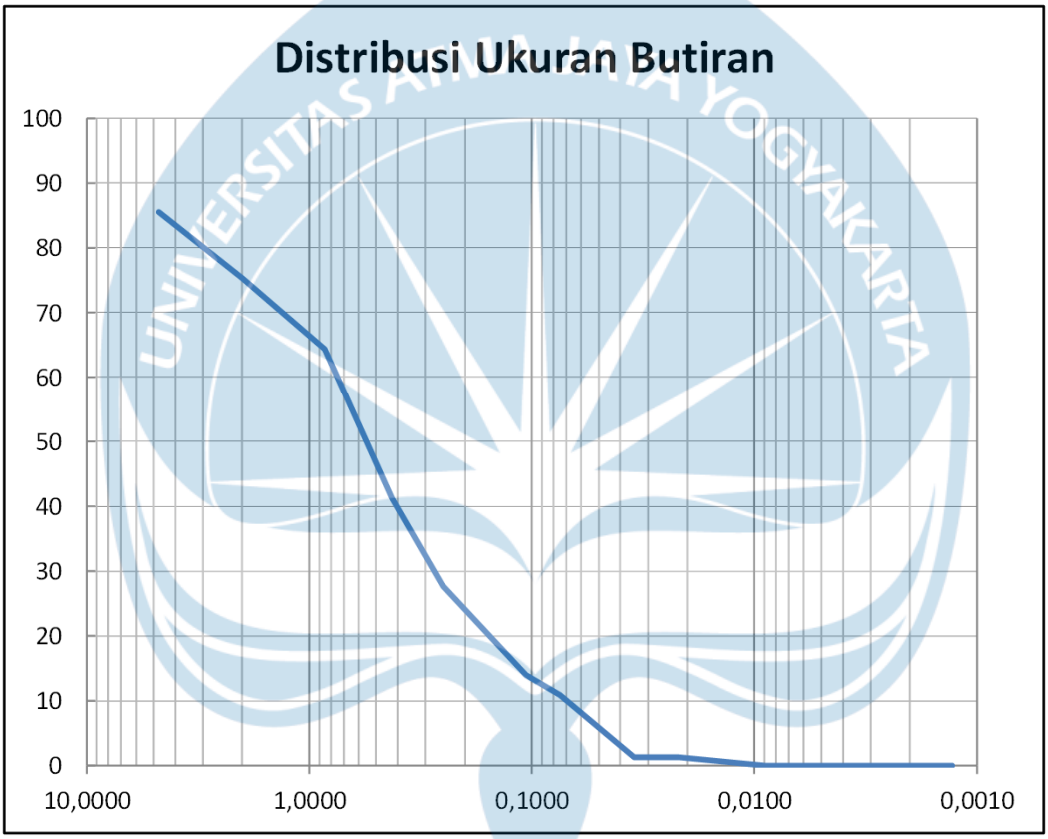
ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH 1
Kedalaman: 25 m



No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4,750	14,5	85,5	85,51
10	2,000	10,2	75,4	75,35
20	0,850	11,1	64,3	64,30
40	0,425	23,0	41,3	41,31
60	0,250	13,7	27,6	27,62
140	0,106	13,7	13,92	13,92
200	0,075	3,0	10,9	10,91
Pan		10,9		

SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : ⊥
ELEVATION : ±0,00 m dari muka jalan
G.WATER DEPTH : -3,00 meter dari muka tanah

DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0.00	0	0	0.00								
0.20	3	5	0.20	4	4	10.20	18	21	0.30	6	280
0.40	4	6	0.20	4	8	10.40	26	29	0.30	6	286
0.60	7	9	0.20	4	12	10.60	24	27	0.30	6	292
0.80	10	12	0.20	4	16	10.80	20	23	0.30	6	298
1.00	11	14	0.30	6	22	11.00	28	31	0.30	6	304
1.20	15	18	0.30	6	28	11.20	32	35	0.30	6	310
1.40	20	23	0.30	6	34	11.40	41	44	0.30	6	316
1.60	16	19	0.30	6	40	11.60	36	39	0.30	6	322
1.80	23	26	0.30	6	46	11.80	29	32	0.30	6	328
2.00	18	21	0.30	6	52	12.00	18	21	0.30	6	334
2.20	17	20	0.30	6	58	12.20	24	27	0.30	6	340
2.40	13	16	0.30	6	64	12.40	16	19	0.30	6	346
2.60	11	14	0.30	6	70	12.60	13	16	0.30	6	352
2.80	10	13	0.30	6	76	12.80	28	31	0.30	6	358
3.00	9	11	0.20	4	80	13.00	22	25	0.30	6	364
3.20	11	14	0.30	6	86	13.20	16	19	0.30	6	370
3.40	8	10	0.20	4	90	13.40	11	14	0.30	6	376
3.60	7	9	0.20	4	94	13.60	7	9	0.20	4	380
3.80	9	11	0.20	4	98	13.80	6	8	0.20	4	384
4.00	6	8	0.20	4	102	14.00	18	21	0.30	6	390
4.20	14	17	0.30	6	108	14.20	25	28	0.30	6	396
4.40	20	23	0.30	6	114	14.40	36	39	0.30	6	402
4.60	38	41	0.30	6	120	14.60	11	14	0.30	6	408
4.80	29	32	0.30	6	126	14.80	6	8	0.20	4	412
5.00	21	24	0.30	6	132	15.00	1	2	0.10	2	414
5.20	12	15	0.30	6	138	15.20	1	2	0.10	2	416
5.40	8	10	0.20	4	142	15.40	1	2	0.10	2	418
5.60	13	16	0.30	6	148	15.60	1	2	0.10	2	420
5.80	19	22	0.30	6	154	15.80	1	2	0.10	2	422
6.00	17	20	0.30	6	160	16.00	1	2	0.10	2	424
6.20	12	15	0.30	6	166	16.20	1	2	0.10	2	426
6.40	14	17	0.30	6	172	16.40	1	2	0.10	2	428
6.60	21	24	0.30	6	178	16.60	1	2	0.10	2	430
6.80	22	25	0.30	6	184	16.80	1	2	0.10	2	432
7.00	18	21	0.30	6	190	17.00	1	2	0.10	2	434
7.20	16	19	0.30	6	196	17.20	1	2	0.10	2	436
7.40	11	14	0.30	6	202	17.40	1	2	0.10	2	438
7.60	15	18	0.30	6	208	17.60	11	14	0.30	6	444
7.80	14	17	0.30	6	214	17.80	26	29	0.30	6	450
8.00	8	10	0.20	4	218	18.00	39	42	0.30	6	456
8.20	9	11	0.20	4	222	18.20	9	12	0.30	6	462
8.40	13	16	0.30	6	228	18.40	1	2	0.10	2	464
8.60	18	21	0.30	6	234	18.60	1	2	0.10	2	466
8.80	24	27	0.30	6	240	18.80	1	2	0.10	2	468
9.00	19	22	0.30	6	246	19.00	1	2	0.10	2	470
9.20	12	15	0.30	6	252	19.20	1	2	0.10	2	472
9.40	14	17	0.30	6	258	19.40	19	22	0.30	6	478
9.60	9	11	0.20	4	262	19.60	24	27	0.30	6	484
9.80	13	16	0.30	6	268	19.80	16	19	0.30	6	490
10.00	15	18	0.30	6	274	20.00	9	11	0.20	4	494

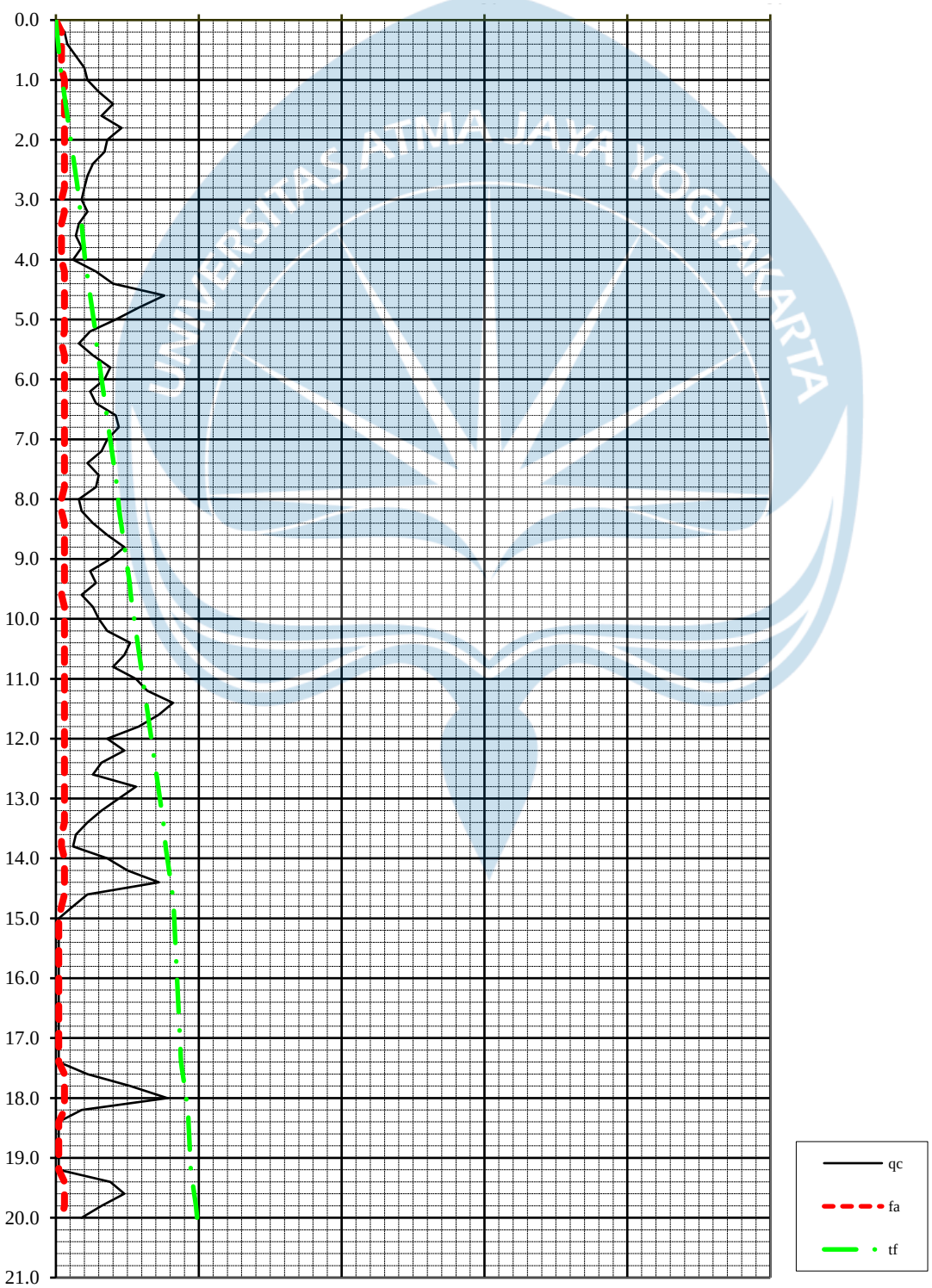
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 1
Date :

Elevation : ±0,00 m dari muka jalan
G.Water Depth : -3,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 2
ELEVATION : ±0,00 m dari muka jalan
G.WATER DEPTH : -3,00 meter dari muka tanah
DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0.00	0	0	0.00								
0.20	4	6	0.20	4	4	10.20	1	2	0.10	2	246
0.40	5	7	0.20	4	8	10.40	1	2	0.10	2	248
0.60	8	10	0.20	4	12	10.60	1	2	0.10	2	250
0.80	12	15	0.30	6	18	10.80	1	2	0.10	2	252
1.00	10	13	0.30	6	24	11.00	1	2	0.10	2	254
1.20	11	14	0.30	6	30	11.20	1	2	0.10	2	256
1.40	15	18	0.30	6	36	11.40	11	14	0.30	6	262
1.60	25	28	0.30	6	42	11.60	13	16	0.30	6	268
1.80	28	31	0.30	6	48	11.80	22	25	0.30	6	274
2.00	19	22	0.30	6	54	12.00	18	21	0.30	6	280
2.20	12	15	0.30	6	60	12.20	12	15	0.30	6	286
2.40	8	10	0.20	4	64	12.40	8	10	0.20	4	290
2.60	13	16	0.30	6	70	12.60	16	19	0.30	6	296
2.80	14	17	0.30	6	76	12.80	15	18	0.30	6	302
3.00	10	13	0.30	6	82	13.00	7	9	0.20	4	306
3.20	26	29	0.30	6	88	13.20	1	2	0.10	2	308
3.40	38	41	0.30	6	94	13.40	1	2	0.10	2	310
3.60	45	48	0.30	6	100	13.60	1	2	0.10	2	312
3.80	34	37	0.30	6	106	13.80	1	2	0.10	2	314
4.00	27	30	0.30	6	112	14.00	1	2	0.10	2	316
4.20	22	25	0.30	6	118	14.20	1	2	0.10	2	318
4.40	16	19	0.30	6	124	14.40	1	2	0.10	2	320
4.60	28	31	0.30	6	130	14.60	1	2	0.10	2	322
4.80	19	22	0.30	6	136	14.80	1	2	0.10	2	324
5.00	15	18	0.30	6	142	15.00	1	2	0.10	2	326
5.20	11	14	0.30	6	148	15.20	1	2	0.10	2	328
5.40	6	8	0.20	4	152	15.40	1	2	0.10	2	330
5.60	9	11	0.20	4	156	15.60	1	2	0.10	2	332
5.80	15	18	0.30	6	162	15.80	1	2	0.10	2	334
6.00	19	22	0.30	6	168	16.00	1	2	0.10	2	336
6.20	26	29	0.30	6	174	16.20	1	2	0.10	2	338
6.40	28	31	0.30	6	180	16.40	1	2	0.10	2	340
6.60	19	22	0.30	6	186	16.60	1	2	0.10	2	342
6.80	20	23	0.30	6	192	16.80	1	2	0.10	2	344
7.00	14	17	0.30	6	198	17.00	1	2	0.10	2	346
7.20	12	15	0.30	6	204	17.20	1	2	0.10	2	348
7.40	18	21	0.30	6	210	17.40	1	2	0.10	2	350
7.60	13	16	0.30	6	216	17.60	1	2	0.10	2	352
7.80	9	11	0.20	4	220	17.80	1	2	0.10	2	354
8.00	5	7	0.20	4	224	18.00	1	2	0.10	2	356
8.20	1	2	0.10	2	226	18.20	1	2	0.10	2	358
8.40	1	2	0.10	2	228	18.40	1	2	0.10	2	360
8.60	1	2	0.10	2	230	18.60	1	2	0.10	2	362
8.80	1	2	0.10	2	232	18.80	1	2	0.10	2	364
9.00	1	2	0.10	2	234	19.00	1	2	0.10	2	366
9.20	1	2	0.10	2	236	19.20	1	2	0.10	2	368
9.40	1	2	0.10	2	238	19.40	1	2	0.10	2	370
9.60	1	2	0.10	2	240	19.60	1	2	0.10	2	372
9.80	1	2	0.10	2	242	19.80	1	2	0.10	2	374
10.00	1	2	0.10	2	244	20.00	1	2	0.10	2	376

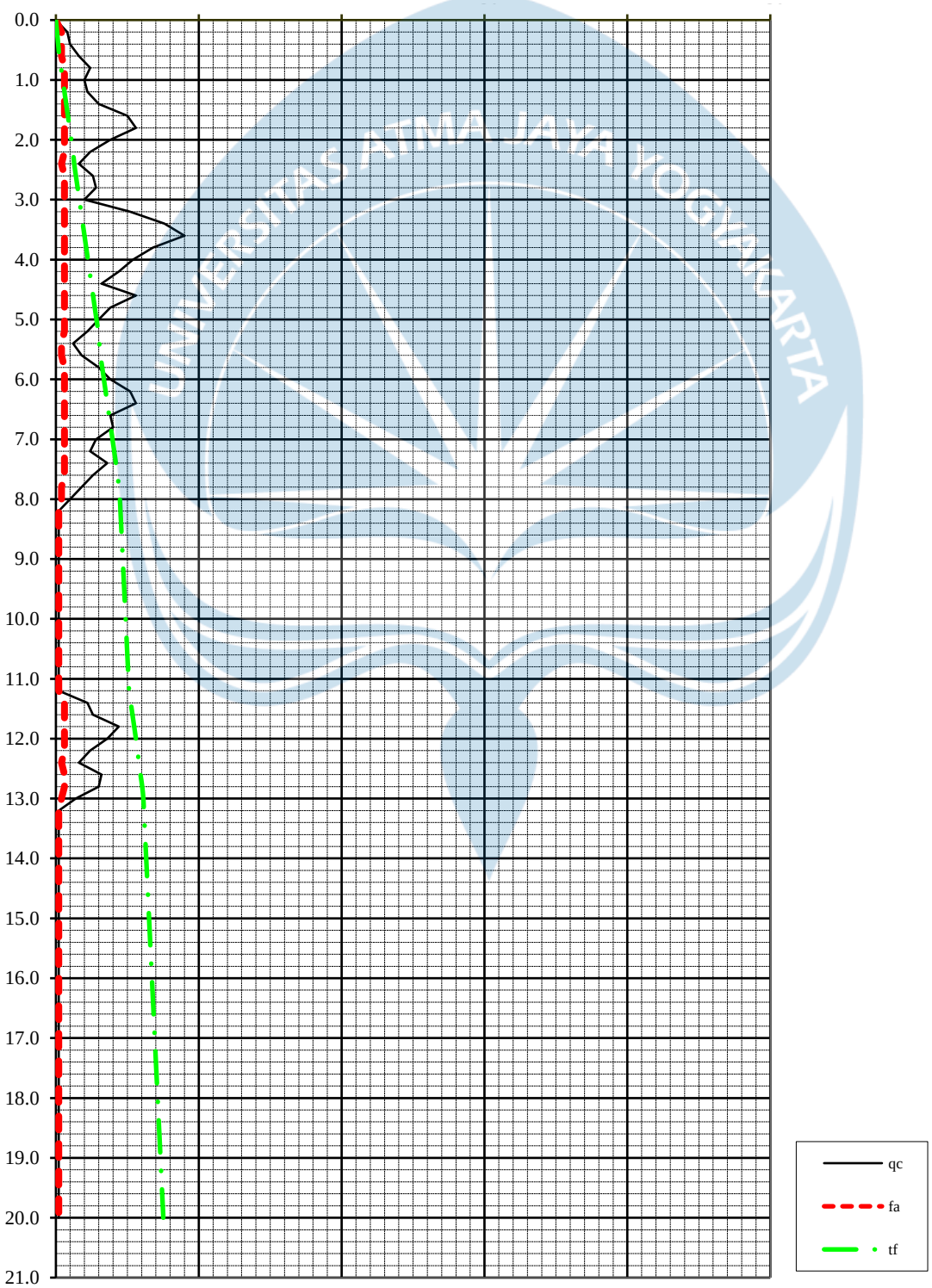
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 2
Date :

Elevation : ±0,00 m dari muka jalan
G.Water Depth : -3,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



SOIL MECHANIC LABORATORY
CIVIL ENGINEERING PROGRAM
FACULTY OF ENGINEERING, UAJY
44 BABARSARI STREET, YOGYAKARTA 55281
Tel: +62-274-487711 ext. 1055
Fax: +62-274-487748

Boring Number:

BH-1

BOR LOG

CLIENT:

PROJECT TITLE :

PROJECT CONTRACT NUMBER:

PROJECT LOCATION :

DATE STARTED:

DATE COMPLETED :

DRILLING CONTRACTOR:

DRILLING METHOD: ROTARY SPINDLE, SKID MOUNTED TYPE

LOGGED BY:

CHECKED BY:

GROUND ELEVATION : ± 0,00 m from road level

HOLE SIZE : 7.295cm

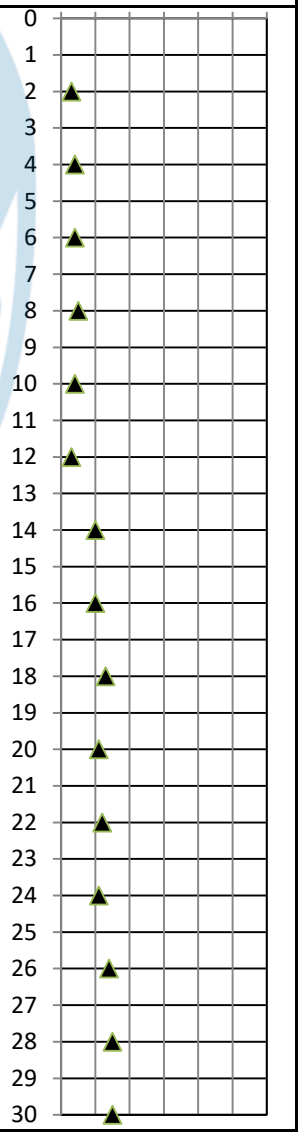
GROUND WATER LEVEL : - 3,00 m from ground level

WEATHER CONDITION : FINE

ESTIMATED SEASONAL HIGH : -

Depth (m)	Graph Log	Material Description (field observations)	Contact Depth (m)	Sample Number	Blow Counts (N Value) N1	N2	N3	Nv	Water Level Elevation (m)
1									
2					1	1	2	3	
3		Lanau berpasir (abu-abu)	6						- 3.00
4					1	2	2	4	
5									
6					2	2	2	4	
7									
8					2	2	3	5	
9									
10				I	1	1	3	4	
11									
12		Lempung sedikit pasir (abu-abu)	12		1	1	2	3	
13									
14					2	4	6	10	
15									
16					3	3	7	10	
17									
18					3	6	7	13	
19									
20				II	3	5	6	11	
21									
22					4	5	7	12	
23									
24		Lempung sedikit pasir (abu-abu)	12		3	4	7	11	
25									
26					4	7	7	14	
27									
28					4	7	8	15	
29									
30					4	6	9	15	

SPT Value



Catatan: Pada pengamatan di lapangan, lanau bisa tampak seperti pasir halus atau pasir sangat halus

Laboratorium Mekanika Tanah
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Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

REKAP HASIL PENGUJIAN TANAH

Proyek :
Lokasi :
Tanggal :

Titik	Kedalaman (m)	Kadar Air (%)	Berat Jenis (G)	γ_b (gr/cm^3)	γ_k (gr/cm^3)	Pengujian Geser Langsung	
						c (kg/cm^2)	θ°
BH 1	10.00	67.74	2.32	1.56	0.93	0.10	11.22
	20.00	72.13	2.45	1.59	0.92	0.10	12.49

Laboratorium Mekanika Tanah
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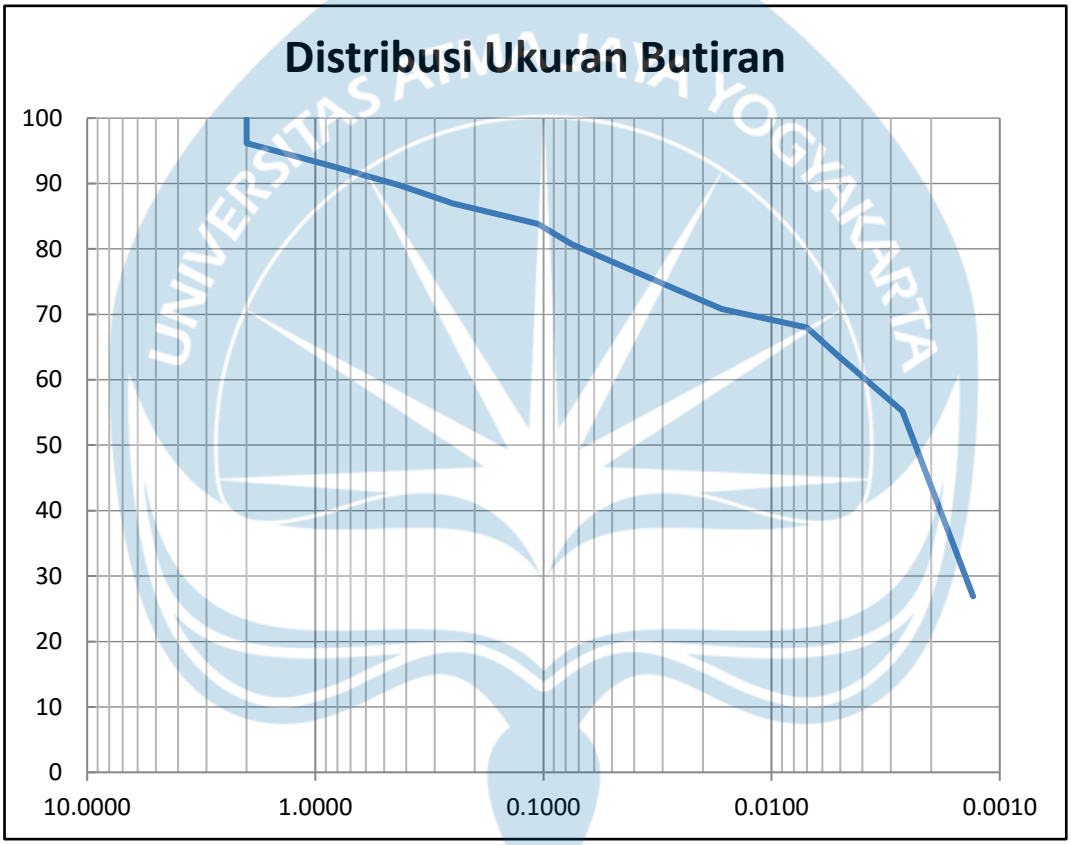
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH 1
Kedalaman: 10.00



No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4.750	0.00	100.00	100.00
10	2.000	3.84	96.16	96.16
20	0.850	3.49	92.67	92.67
40	0.425	2.97	89.70	89.70
60	0.250	2.75	86.95	86.95
140	0.106	3.12	83.83	83.83
200	0.075	3.11	80.72	80.72
Pan		80.72		

Laboratorium Mekanika Tanah
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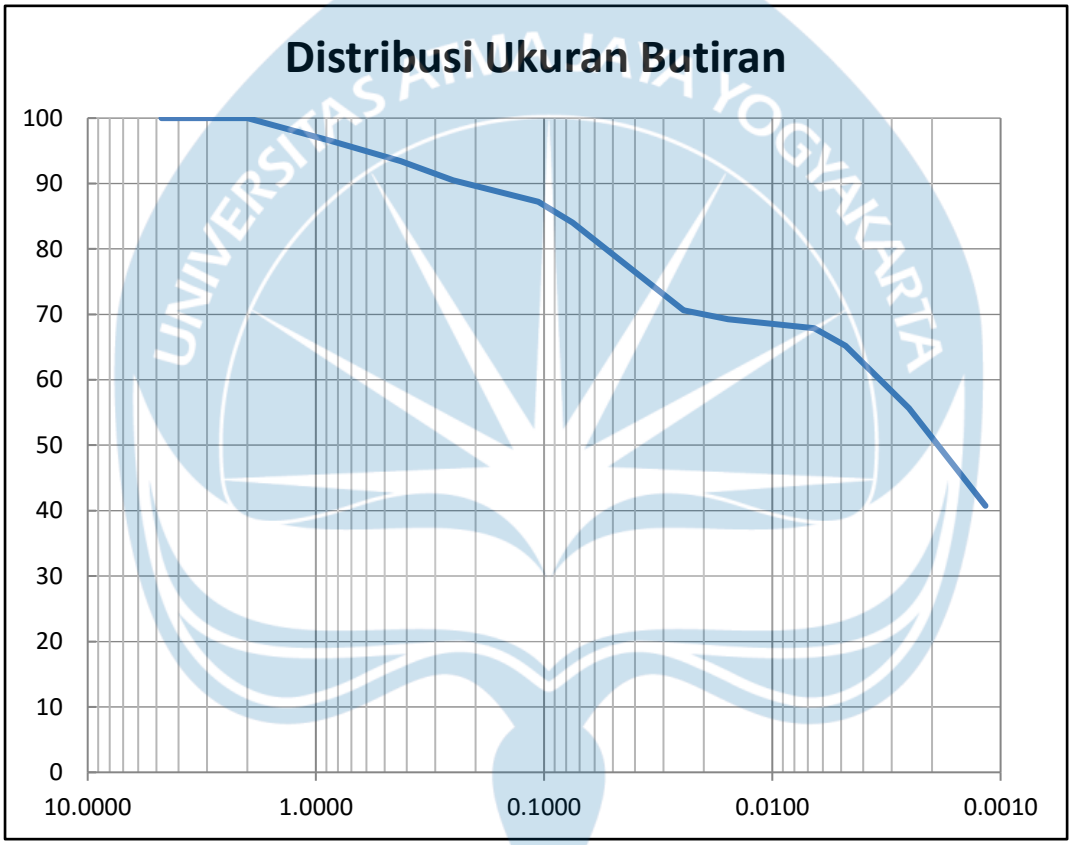
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH 1
Kedalaman: 20.00



No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4.750	0.00	100.00	100.00
10	2.000	0.00	100.00	100.00
20	0.850	3.52	96.48	96.48
40	0.425	3.07	93.41	93.41
60	0.250	2.92	90.49	90.49
140	0.106	3.28	87.21	87.21
200	0.075	3.17	84.04	84.04
Pan		84.04		

SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 1
ELEVATION : +0,20 m dari muka jalan
G.WATER DEPTH : -4,00 meter dari muka tanah

DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0.00	0	0	0.00								
0.20	3	5	0.20	4	4	10.20	12	15	0.30	6	214
0.40	4	6	0.20	4	8	10.40	18	21	0.30	6	220
0.60	7	9	0.20	4	12	10.60	10	13	0.30	6	226
0.80	9	11	0.20	4	16	10.80	7	9	0.20	4	230
1.00	11	14	0.30	6	22	11.00	1	2	0.10	2	232
1.20	14	17	0.30	6	28	11.20	1	2	0.10	2	234
1.40	21	24	0.30	6	34	11.40	1	2	0.10	2	236
1.60	16	19	0.30	6	40	11.60	1	2	0.10	2	238
1.80	12	15	0.30	6	46	11.80	1	2	0.10	2	240
2.00	9	11	0.20	4	50	12.00	1	2	0.10	2	242
2.20	7	9	0.20	4	54	12.20	1	2	0.10	2	244
2.40	6	8	0.20	4	58	12.40	1	2	0.10	2	246
2.60	14	17	0.30	6	64	12.60	1	2	0.10	2	248
2.80	15	18	0.30	6	70	12.80	1	2	0.10	2	250
3.00	9	11	0.20	4	74	13.00	1	2	0.10	2	252
3.20	13	16	0.30	6	80	13.20	1	2	0.10	2	254
3.40	28	31	0.30	6	86	13.40	1	2	0.10	2	256
3.60	19	22	0.30	6	92	13.60	1	2	0.10	2	258
3.80	11	14	0.30	6	98	13.80	1	2	0.10	2	260
4.00	8	10	0.20	4	102	14.00	1	2	0.10	2	262
4.20	6	8	0.20	4	106	14.20	1	2	0.10	2	264
4.40	3	5	0.20	4	110	14.40	1	2	0.10	2	266
4.60	10	13	0.30	6	116	14.60	1	2	0.10	2	268
4.80	9	11	0.20	4	120	14.80	1	2	0.10	2	270
5.00	6	8	0.20	4	124	15.00	1	2	0.10	2	272
5.20	5	7	0.20	4	128	15.20	1	2	0.10	2	274
5.40	8	10	0.20	4	132	15.40	1	2	0.10	2	276
5.60	14	17	0.30	6	138	15.60	1	2	0.10	2	278
5.80	10	13	0.30	6	144	15.80	1	2	0.10	2	280
6.00	3	5	0.20	4	148	16.00	1	2	0.10	2	282
6.20	5	7	0.20	4	152	16.20	1	2	0.10	2	284
6.40	9	11	0.20	4	156	16.40	1	2	0.10	2	286
6.60	12	15	0.30	6	162	16.60	1	2	0.10	2	288
6.80	8	10	0.20	4	166	16.80	1	2	0.10	2	290
7.00	6	8	0.20	4	170	17.00	1	2	0.10	2	292
7.20	12	15	0.30	6	176	17.20	1	2	0.10	2	294
7.40	7	9	0.20	4	180	17.40	1	2	0.10	2	296
7.60	4	6	0.20	4	184	17.60	1	2	0.10	2	298
7.80	1	2	0.10	2	186	17.80	1	2	0.10	2	300
8.00	1	2	0.10	2	188	18.00	1	2	0.10	2	302
8.20	1	2	0.10	2	190	18.20	1	2	0.10	2	304
8.40	1	2	0.10	2	192	18.40	1	2	0.10	2	306
8.60	1	2	0.10	2	194	18.60	1	2	0.10	2	308
8.80	1	2	0.10	2	196	18.80	1	2	0.10	2	310
9.00	1	2	0.10	2	198	19.00	1	2	0.10	2	312
9.20	1	2	0.10	2	200	19.20	1	2	0.10	2	314
9.40	1	2	0.10	2	202	19.40	1	2	0.10	2	316
9.60	1	2	0.10	2	204	19.60	1	2	0.10	2	318
9.80	1	2	0.10	2	206	19.80	1	2	0.10	2	320
10.00	1	2	0.10	2	208	20.00	1	2	0.10	2	322

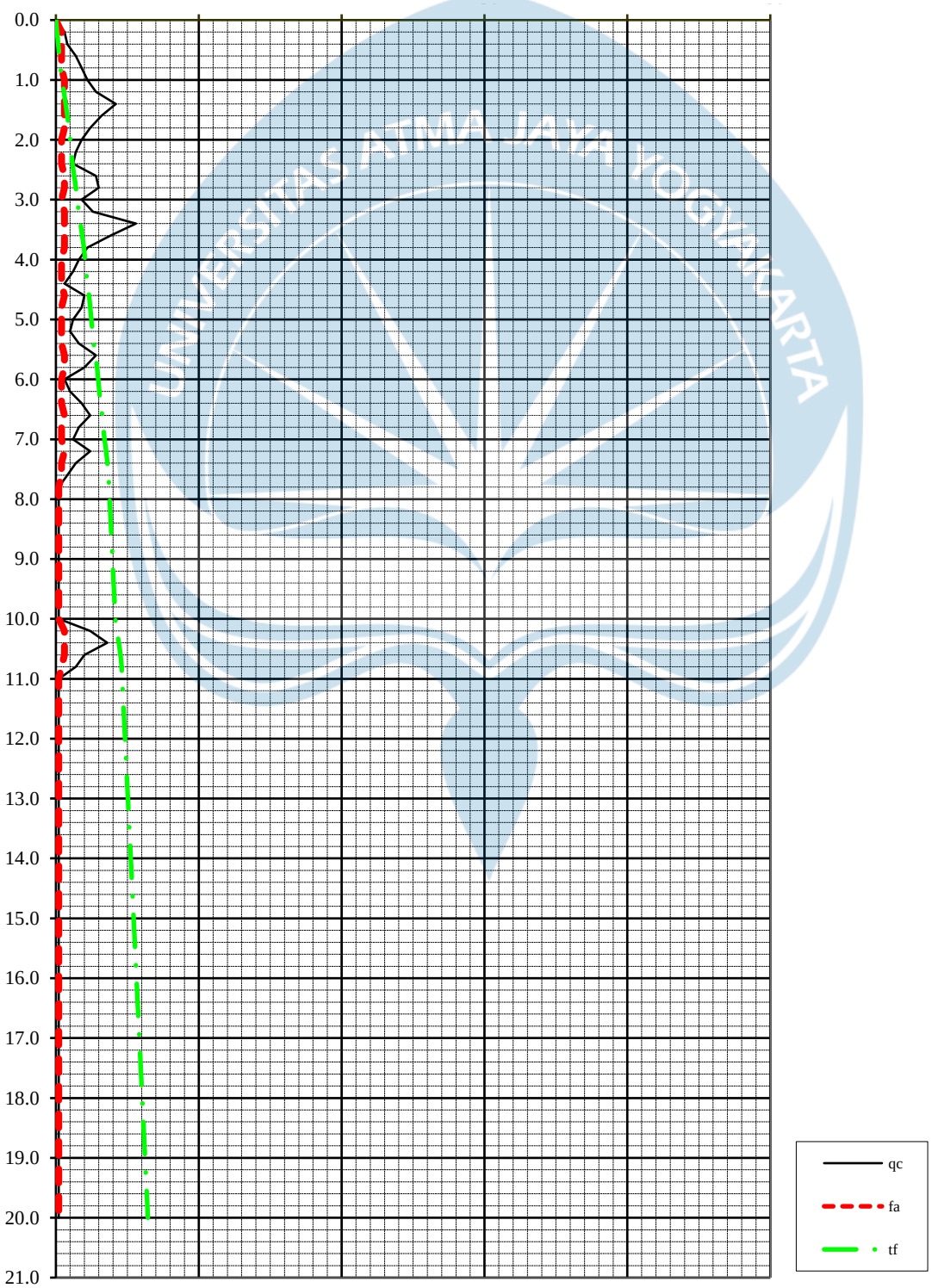
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 1
Date :

Elevation : +0,20 m dari muka jalan
G.Water Depth : -4,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION :
NUMBER OF CPT. : 2
ELEVATION : +0,20 m dari muka jalan
G.WATER DEPTH : -4,00 meter dari muka tanah

DATE :
WEATHER : Cerah
SURVEYOR :
PROJECT :

Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0.00	0	0	0.00								
0.20	3	5	0.20	4	4	10.20	1	2	0.10	2	218
0.40	5	7	0.20	4	8	10.40	1	2	0.10	2	220
0.60	9	11	0.20	4	12	10.60	1	2	0.10	2	222
0.80	14	17	0.30	6	18	10.80	1	2	0.10	2	224
1.00	15	18	0.30	6	24	11.00	1	2	0.10	2	226
1.20	17	20	0.30	6	30	11.20	1	2	0.10	2	228
1.40	13	16	0.30	6	36	11.40	1	2	0.10	2	230
1.60	8	10	0.20	4	40	11.60	1	2	0.10	2	232
1.80	5	7	0.20	4	44	11.80	1	2	0.10	2	234
2.00	10	13	0.30	6	50	12.00	1	2	0.10	2	236
2.20	12	15	0.30	6	56	12.20	1	2	0.10	2	238
2.40	26	29	0.30	6	62	12.40	1	2	0.10	2	240
2.60	21	24	0.30	6	68	12.60	1	2	0.10	2	242
2.80	19	22	0.30	6	74	12.80	1	2	0.10	2	244
3.00	24	27	0.30	6	80	13.00	7	9	0.20	4	248
3.20	33	36	0.30	6	86	13.20	8	10	0.20	4	252
3.40	17	20	0.30	6	92	13.40	12	15	0.30	6	258
3.60	13	16	0.30	6	98	13.60	6	8	0.20	4	262
3.80	9	11	0.20	4	102	13.80	3	5	0.20	4	266
4.00	14	17	0.30	6	108	14.00	1	2	0.10	2	268
4.20	18	21	0.30	6	114	14.20	1	2	0.10	2	270
4.40	29	32	0.30	6	120	14.40	1	2	0.10	2	272
4.60	27	30	0.30	6	126	14.60	1	2	0.10	2	274
4.80	16	19	0.30	6	132	14.80	1	2	0.10	2	276
5.00	10	13	0.30	6	138	15.00	1	2	0.10	2	278
5.20	7	9	0.20	4	142	15.20	1	2	0.10	2	280
5.40	15	18	0.30	6	148	15.40	1	2	0.10	2	282
5.60	19	22	0.30	6	154	15.60	1	2	0.10	2	284
5.80	16	19	0.30	6	160	15.80	1	2	0.10	2	286
6.00	8	10	0.20	4	164	16.00	1	2	0.10	2	288
6.20	3	5	0.20	4	168	16.20	1	2	0.10	2	290
6.40	6	8	0.20	4	172	16.40	1	2	0.10	2	292
6.60	11	14	0.30	6	178	16.60	1	2	0.10	2	294
6.80	7	9	0.20	4	182	16.80	1	2	0.10	2	296
7.00	5	7	0.20	4	186	17.00	1	2	0.10	2	298
7.20	1	2	0.10	2	188	17.20	1	2	0.10	2	300
7.40	1	2	0.10	2	190	17.40	1	2	0.10	2	302
7.60	1	2	0.10	2	192	17.60	1	2	0.10	2	304
7.80	1	2	0.10	2	194	17.80	1	2	0.10	2	306
8.00	1	2	0.10	2	196	18.00	1	2	0.10	2	308
8.20	1	2	0.10	2	198	18.20	1	2	0.10	2	310
8.40	1	2	0.10	2	200	18.40	1	2	0.10	2	312
8.60	1	2	0.10	2	202	18.60	1	2	0.10	2	314
8.80	1	2	0.10	2	204	18.80	1	2	0.10	2	316
9.00	1	2	0.10	2	206	19.00	1	2	0.10	2	318
9.20	1	2	0.10	2	208	19.20	1	2	0.10	2	320
9.40	1	2	0.10	2	210	19.40	1	2	0.10	2	322
9.60	1	2	0.10	2	212	19.60	1	2	0.10	2	324
9.80	1	2	0.10	2	214	19.80	1	2	0.10	2	326
10.00	1	2	0.10	2	216	20.00	1	2	0.10	2	328

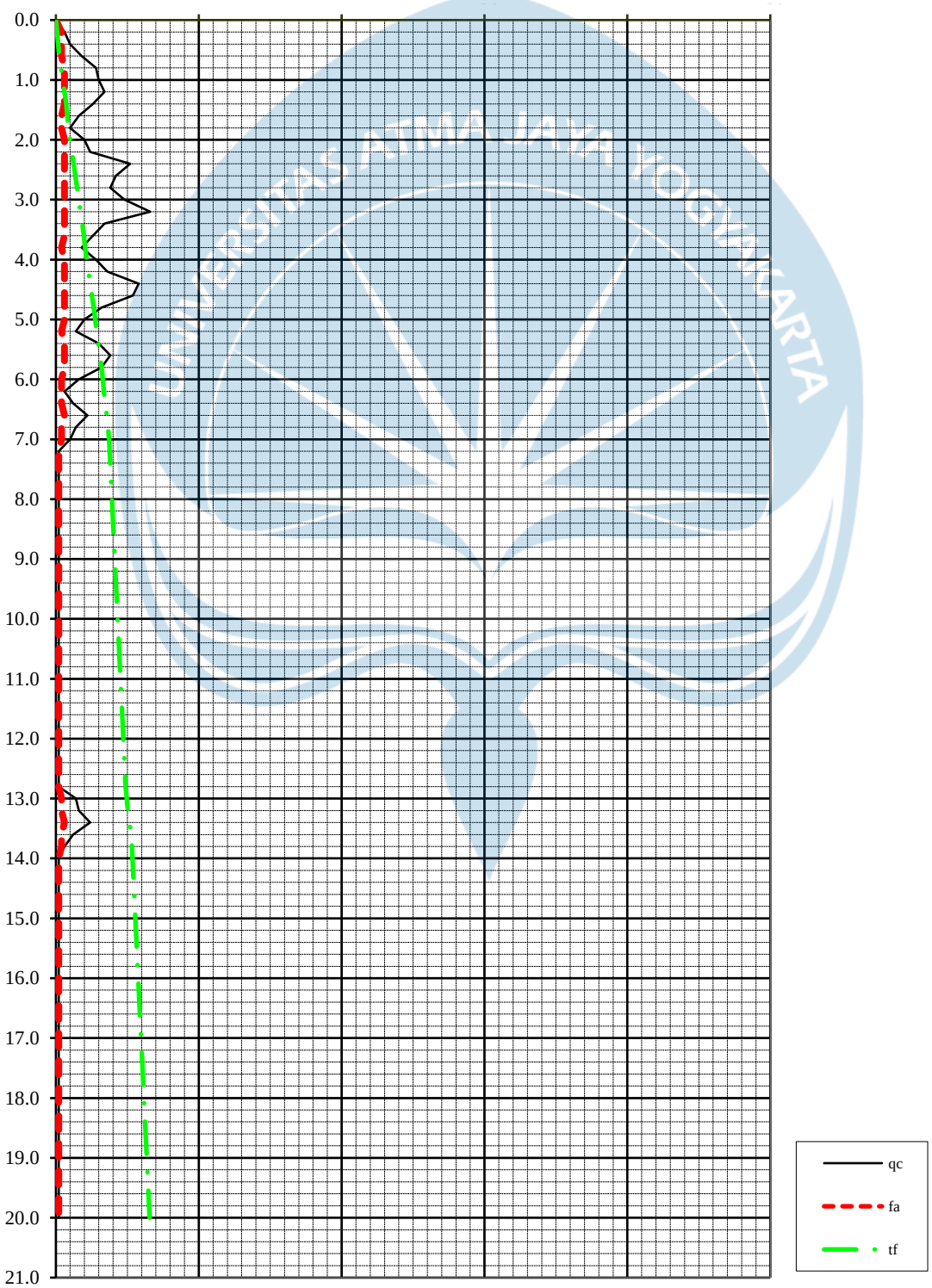
SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 2
Date :

Elevation : +0,20 m dari muka jalan
G.Water Depth : -4,00 meter dari muka tanah

fa	5	10	15	20	25	*Kg/cm²*
qc	50	100	150	200	250	*Kg/cm²*
tf	500	1000	1500	2000	2500	*Kg/cm¹*



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SOIL MECHANIC LABORATORY
CIVIL ENGINEERING PROGRAM
FACULTY OF ENGINEERING, UAJY
44 BABARSARI STREET, YOGYAKARTA 55281
Tel: +62-274-487711 ext. 1055
Fax: +62-274-487748

Boring Number:

BH-2

BOR LOG

CLIENT:

PROJECT CONTRACT NUMBER

PROJECT TITLE :

PROJECT LOCATION :

DATE STARTED:

DATE COMPLETED :

DRILLING CONTRACTOR:

DRILLING METHOD: ROTARY SPINDLE, SKID MOUNTED TYPE

LOGGED BY:

CHECKED BY:

GROUND ELEVATION : + 0,20 m from road level

HOLE SIZE : 7.295cm

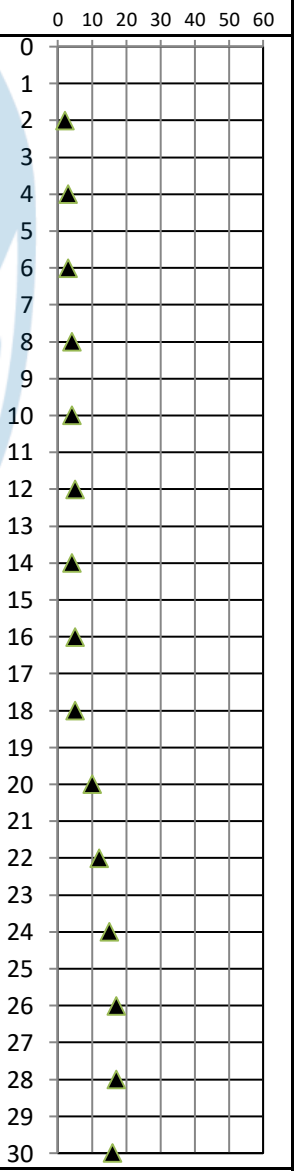
GROUND WATER LEVEL : - 4,00 m from ground level

WEATHER CONDITION : FINE

ESTIMATED SEASONAL HIGH : -

Depth (m)	Graph Log	Material Description (field observations)	Contact Depth (m)	Sample Number	Blow Counts (N Value) N1	N2	N3	Nv	Water Level Elevation (m)
1									
2					1	1	1	2	
3		Lanau berlempung (abu-abu)	6						
4					1	1	2	3	- 4.00
5									
6					1	1	2	3	
7									
8					1	2	2	4	
9									
10				I	2	2	2	4	
11									
12					2	2	3	5	
13									
14					1	1	3	4	
15									
16					1	2	3	5	
17									
18		Lempung sedikit pasir (abu-abu)	24		2	2	3	5	
19									
20				II	2	4	6	10	
21									
22					3	4	8	12	
23									
24					4	6	9	15	
25									
26					4	6	11	17	
27									
28					4	7	10	17	
29									
30					4	6	10	16	

SPT Value



Catatan: Pada pengamatan di lapangan, lanau bisa tampak seperti pasir halus atau pasir sangat halus

Laboratorium Mekanika Tanah
UNIVERSITAS ATMA JAYA YOGYAKARTA
Fakultas Teknik - Program Studi Teknik Sipil
Jl. Babarsari No. 44 Yogyakarta 55281 Indonesia
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

REKAP HASIL PENGUJIAN TANAH

Proyek :
Lokasi :
Tanggal :

Titik	Kedalaman (m)	Kadar Air (%)	Berat Jenis (G)	γ_b (gr/cm^3)	γ_k (gr/cm^3)	Pengujian Geser Langsung	
						c (kg/cm^2)	θ°
BH 2	10.00	84.18	2.57	1.66	0.90	0.08	10.84
	20.00	77.46	2.30	1.56	0.88	0.07	12.46

Laboratorium Mekanika Tanah
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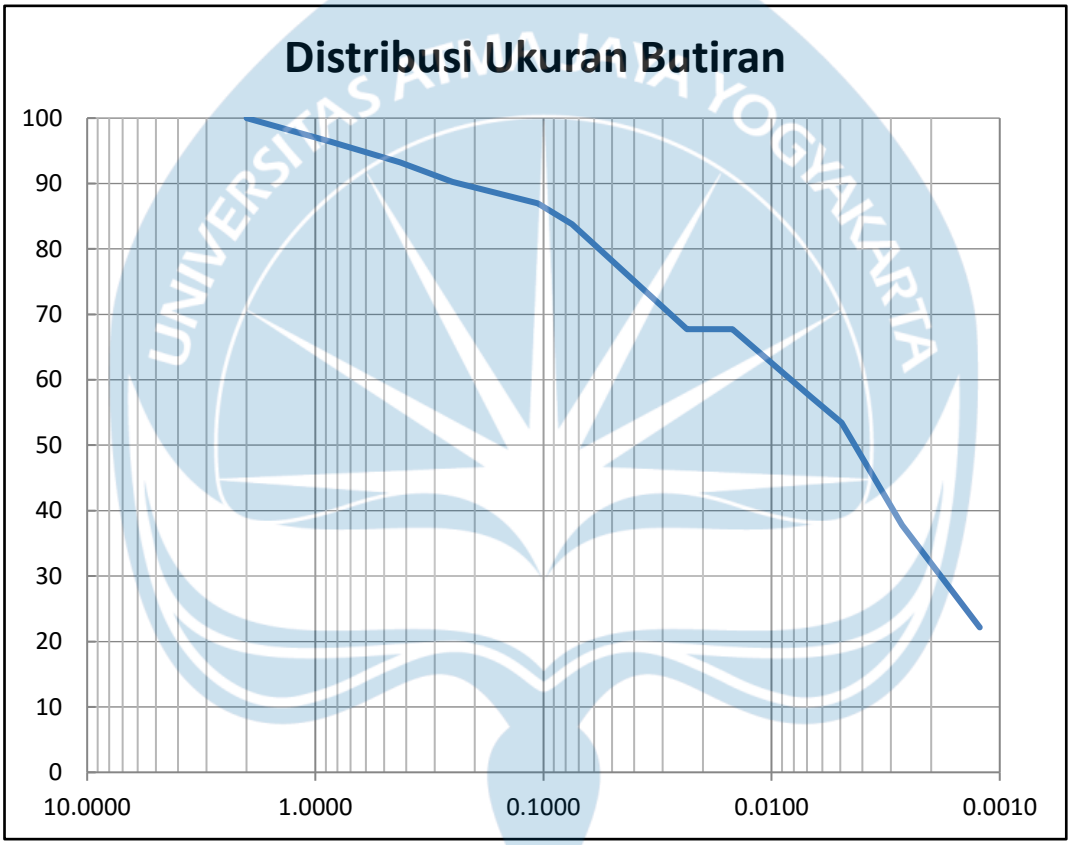
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH 2
Kedalaman: 10.00



No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4.750	0.00	100.00	100.00
10	2.000	0.00	100.00	100.00
20	0.850	3.64	96.36	96.36
40	0.425	3.12	93.24	93.24
60	0.250	2.98	90.26	90.26
140	0.106	3.29	86.97	86.97
200	0.075	3.18	83.79	83.79
Pan		83.79		

Laboratorium Mekanika Tanah
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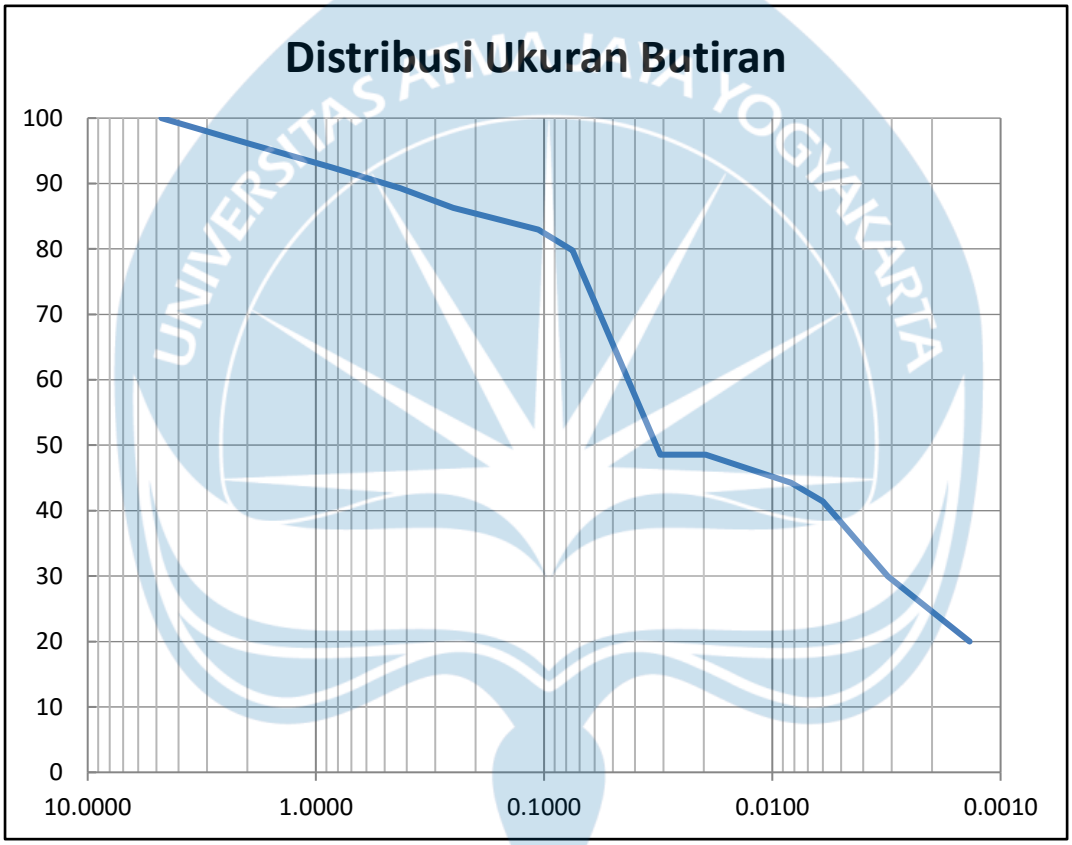
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH 2
Kedalaman: 20.00



No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4.750	0.00	100.00	100.00
10	2.000	3.83	96.17	96.17
20	0.850	3.73	92.44	92.44
40	0.425	3.18	89.26	89.26
60	0.250	2.96	86.30	86.30
140	0.106	3.33	82.97	82.97
200	0.075	3.20	79.77	79.77
Pan		79.77		

SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION	:	**DATE**	:
NUMBER OF CPT.	: 1	**WEATHER**	: Cerah
ELEVATION	: -0,50 m dari muka jalan	**SURVEYOR**	:
G.WATER DEPTH	: -3,00 meter dari muka tanah	**PROJECT**	:

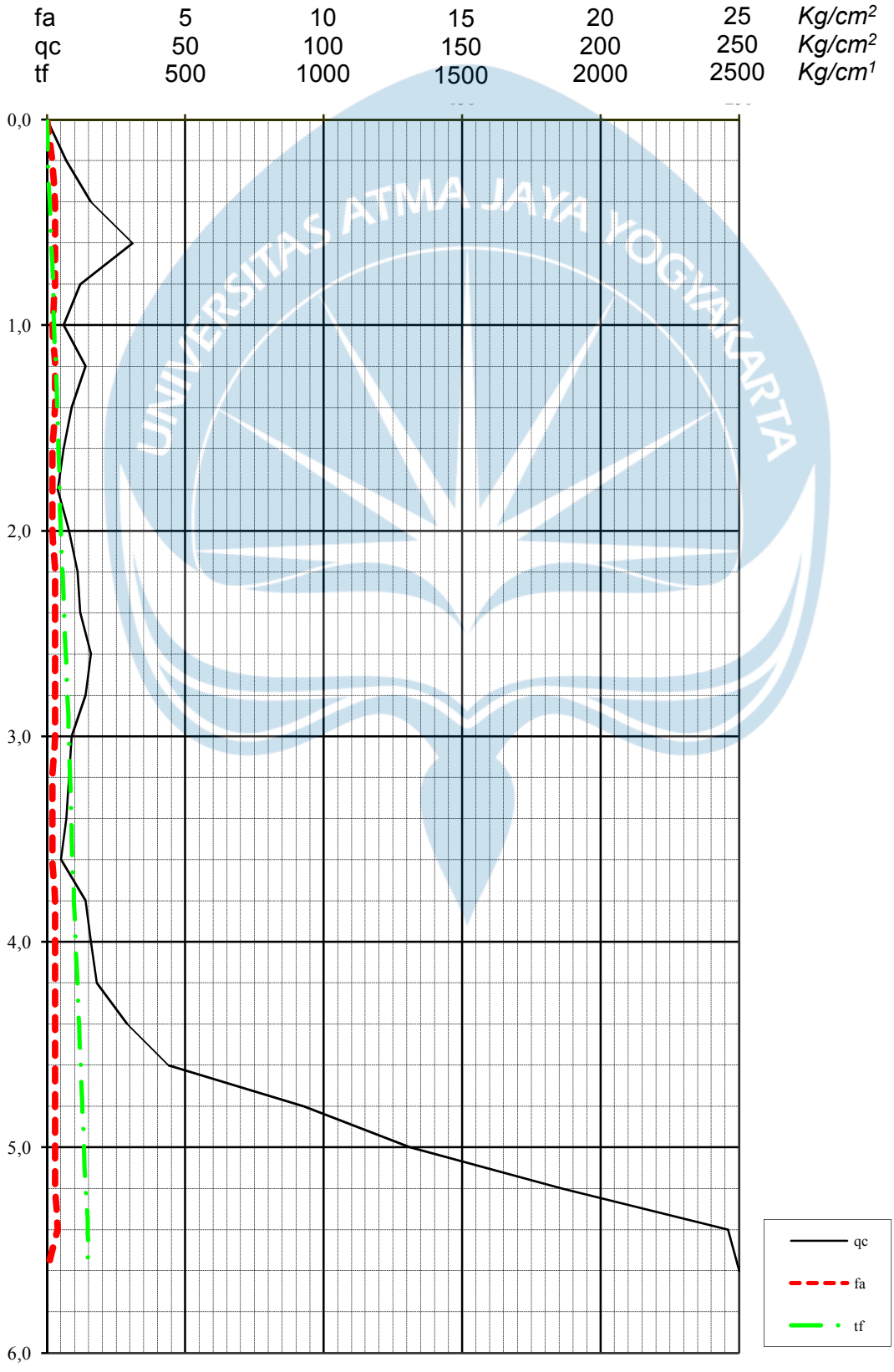
Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0,00	0	0	0,00								
0,20	7	9	0,20	4	4	10,20					
0,40	16	19	0,30	6	10	10,40					
0,60	31	34	0,30	6	16	10,60					
0,80	12	15	0,30	6	22	10,80					
1,00	6	8	0,20	4	26	11,00					
1,20	14	17	0,30	6	32	11,20					
1,40	9	12	0,30	6	38	11,40					
1,60	6	8	0,20	4	42	11,60					
1,80	4	6	0,20	4	46	11,80					
2,00	8	10	0,20	4	50	12,00					
2,20	11	14	0,30	6	56	12,20					
2,40	12	15	0,30	6	62	12,40					
2,60	16	19	0,30	6	68	12,60					
2,80	14	17	0,30	6	74	12,80					
3,00	9	12	0,30	6	80	13,00					
3,20	8	10	0,20	4	84	13,20					
3,40	7	9	0,20	4	88	13,40					
3,60	5	7	0,20	4	92	13,60					
3,80	14	17	0,30	6	98	13,80					
4,00	16	19	0,30	6	104	14,00					
4,20	18	21	0,30	6	110	14,20					
4,40	29	32	0,30	6	116	14,40					
4,60	44	47	0,30	6	122	14,60					
4,80	93	96	0,30	6	128	14,80					
5,00	131	134	0,30	6	134	15,00					
5,20	186	189	0,30	6	140	15,20					
5,40	246	250	0,40	8	148	15,40					
5,60	250	250	0,00	0	148	15,60					
5,80						15,80					
6,00						16,00					
6,20						16,20					
6,40						16,40					
6,60						16,60					
6,80						16,80					
7,00						17,00					
7,20						17,20					
7,40						17,40					
7,60						17,60					
7,80						17,80					
8,00						18,00					
8,20						18,20					
8,40						18,40					
8,60						18,60					
8,80						18,80					
9,00						19,00					
9,20						19,20					
9,40						19,40					
9,60						19,60					
9,80						19,80					
10,00						20,00					

SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 1
Date :

Elevation : -0,50 m dari muka jalan
G.Water Depth : -3,00 meter dari muka tanah



SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION	:	**DATE**	:
NUMBER OF CPT.	: 2	**WEATHER**	: Cerah
ELEVATION	: -0,50 m dari muka jalan	**SURVEYOR**	:
G.WATER DEPTH	: -3,00 meter dari muka tanah	**PROJECT**	:

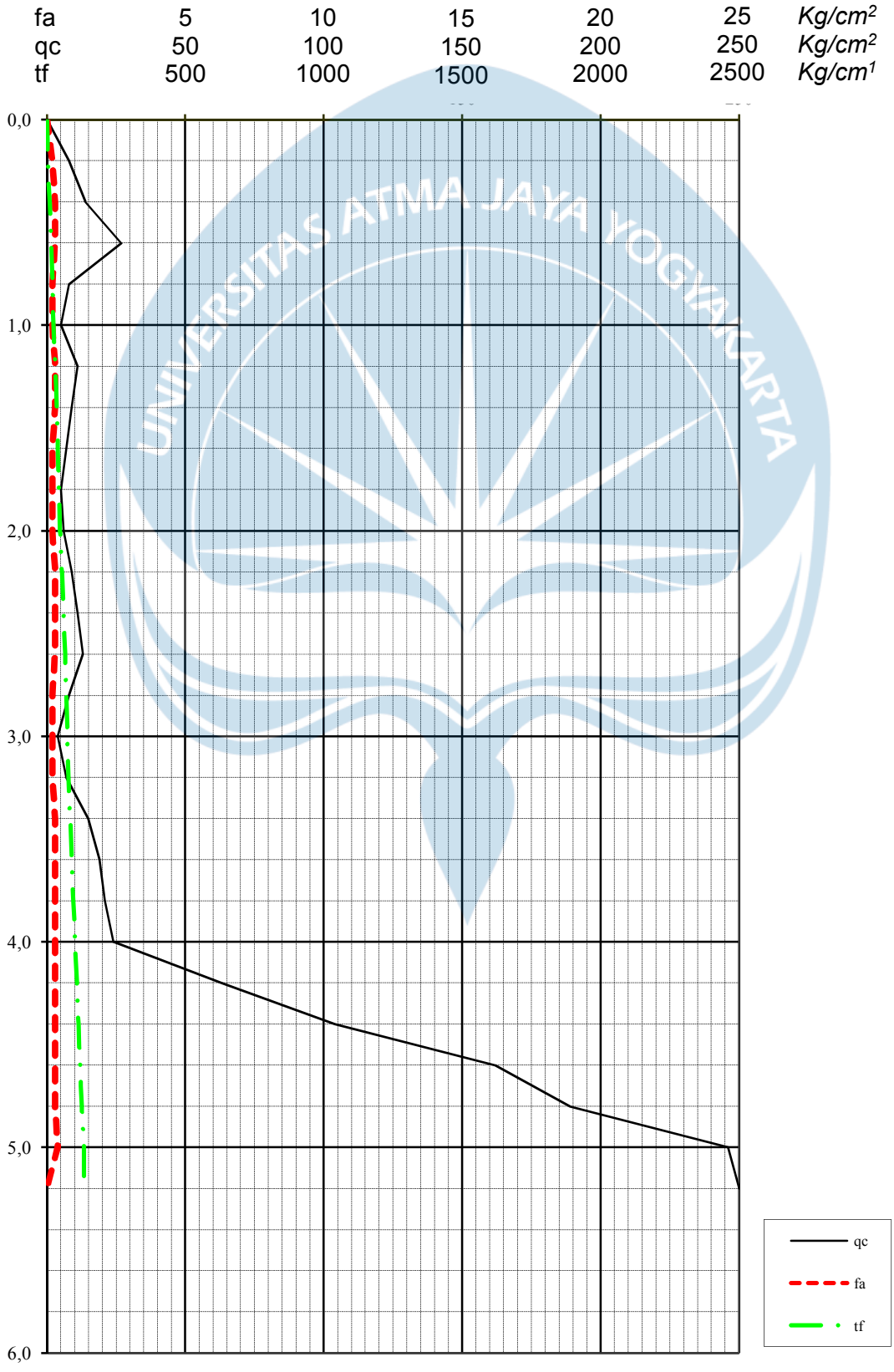
Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0,00	0	0	0,00								
0,20	8	10	0,20	4	4	10,20					
0,40	14	17	0,30	6	10	10,40					
0,60	27	30	0,30	6	16	10,60					
0,80	8	10	0,20	4	20	10,80					
1,00	5	7	0,20	4	24	11,00					
1,20	11	14	0,30	6	30	11,20					
1,40	9	12	0,30	6	36	11,40					
1,60	7	9	0,20	4	40	11,60					
1,80	5	7	0,20	4	44	11,80					
2,00	6	8	0,20	4	48	12,00					
2,20	9	12	0,30	6	54	12,20					
2,40	11	14	0,30	6	60	12,40					
2,60	13	16	0,30	6	66	12,60					
2,80	8	10	0,20	4	70	12,80					
3,00	4	6	0,20	4	74	13,00					
3,20	7	9	0,20	4	78	13,20					
3,40	15	18	0,30	6	84	13,40					
3,60	19	22	0,30	6	90	13,60					
3,80	21	24	0,30	6	96	13,80					
4,00	24	27	0,30	6	102	14,00					
4,20	63	66	0,30	6	108	14,20					
4,40	104	107	0,30	6	114	14,40					
4,60	162	165	0,30	6	120	14,60					
4,80	189	192	0,30	6	126	14,80					
5,00	246	250	0,40	8	134	15,00					
5,20	250	250	0,00	0	134	15,20					
5,40						15,40					
5,60						15,60					
5,80						15,80					
6,00						16,00					
6,20						16,20					
6,40						16,40					
6,60						16,60					
6,80						16,80					
7,00						17,00					
7,20						17,20					
7,40						17,40					
7,60						17,60					
7,80						17,80					
8,00						18,00					
8,20						18,20					
8,40						18,40					
8,60						18,60					
8,80						18,80					
9,00						19,00					
9,20						19,20					
9,40						19,40					
9,60						19,60					
9,80						19,80					
10,00						20,00					

SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 2
Date :

Elevation : -0,50 m dari muka jalan
G.Water Depth : -3,00 meter dari muka tanah



SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

LOCATION	:	**DATE**	:
NUMBER OF CPT.	: 3	**WEATHER**	: Cerah
ELEVATION	: -0,50 m dari muka jalan	**SURVEYOR**	:
G.WATER DEPTH	: -3,00 meter dari muka tanah	**PROJECT**	:

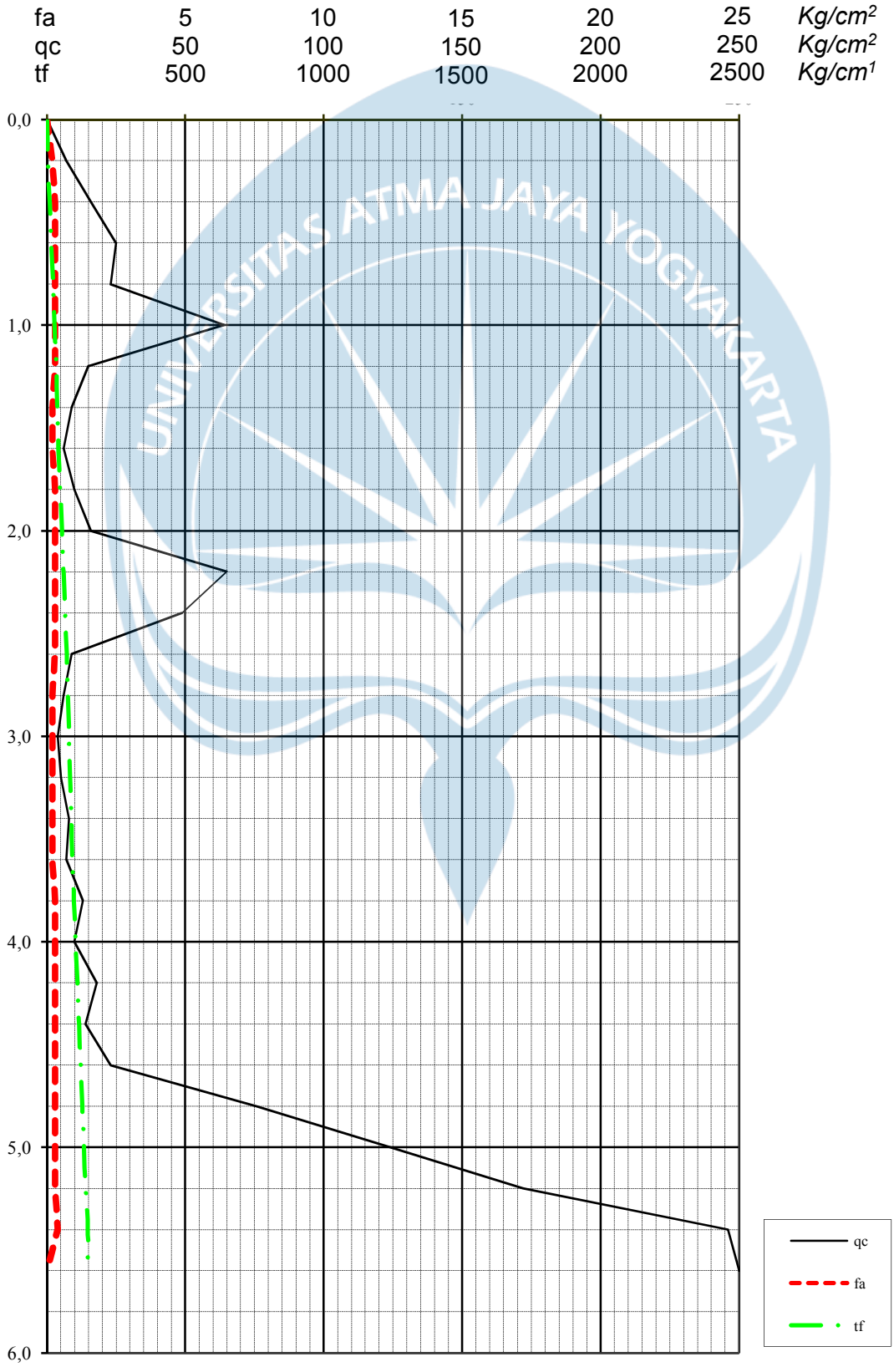
Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'	Depth meters	C kg/cm^2	C + F kg/cm^2	L F kg/cm^2	T F kg/cm'	Σ T F kg/cm'
0,00	0	0	0,00								
0,20	7	9	0,20	4	4	10,20					
0,40	16	19	0,30	6	10	10,40					
0,60	25	28	0,30	6	16	10,60					
0,80	23	26	0,30	6	22	10,80					
1,00	64	67	0,30	6	28	11,00					
1,20	15	18	0,30	6	34	11,20					
1,40	9	11	0,20	4	38	11,40					
1,60	6	8	0,20	4	42	11,60					
1,80	10	13	0,30	6	48	11,80					
2,00	16	19	0,30	6	54	12,00					
2,20	65	68	0,30	6	60	12,20					
2,40	49	52	0,30	6	66	12,40					
2,60	9	12	0,30	6	72	12,60					
2,80	6	8	0,20	4	76	12,80					
3,00	4	6	0,20	4	80	13,00					
3,20	5	7	0,20	4	84	13,20					
3,40	8	10	0,20	4	88	13,40					
3,60	7	9	0,20	4	92	13,60					
3,80	13	16	0,30	6	98	13,80					
4,00	10	13	0,30	6	104	14,00					
4,20	18	21	0,30	6	110	14,20					
4,40	14	17	0,30	6	116	14,40					
4,60	23	26	0,30	6	122	14,60					
4,80	76	79	0,30	6	128	14,80					
5,00	124	127	0,30	6	134	15,00					
5,20	172	175	0,30	6	140	15,20					
5,40	246	250	0,40	8	148	15,40					
5,60	250	250	0,00	0	148	15,60					
5,80						15,80					
6,00						16,00					
6,20						16,20					
6,40						16,40					
6,60						16,60					
6,80						16,80					
7,00						17,00					
7,20						17,20					
7,40						17,40					
7,60						17,60					
7,80						17,80					
8,00						18,00					
8,20						18,20					
8,40						18,40					
8,60						18,60					
8,80						18,80					
9,00						19,00					
9,20						19,20					
9,40						19,40					
9,60						19,60					
9,80						19,80					
10,00						20,00					

SOIL MECHANICS LABORATORY
DEPARTMENT OF CIVIL ENGINEERING
FACULTY OF ENGINEERING - ATMA JAYA YOGYAKARTA UNIVERSITY

2,5 TON CONE PENETRATION TEST

Project :
Number of cpt. : 3
Date :

Elevation : -0,50 m dari muka jalan
G.Water Depth : -3,00 meter dari muka tanah



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SOIL MECHANIC LABORATORY
CIVIL ENGINEERING PROGRAM
FACULTY OF ENGINEERING, UAJY
44 BABARSARI STREET, YOGYAKARTA 55281
Tel: +62-274-487711 ext. 1055
Fax: +62-274-487748

Boring Number:

BH-1

BOR LOG

CLIENT:

PROJECT CONTRACT NUMBER:

PROJECT TITLE :

PROJECT LOCATION :

DATE STARTED:

DATE COMPLETED :

DRILLING CONTRACTOR:

DRILLING METHOD: ROTARY SPINDLE, SKID MOUNTED TYPE

LOGGED BY:

CHECKED BY:

GROUND ELEVATION : - 0,50 m from road level

HOLE SIZE : 7.295cm

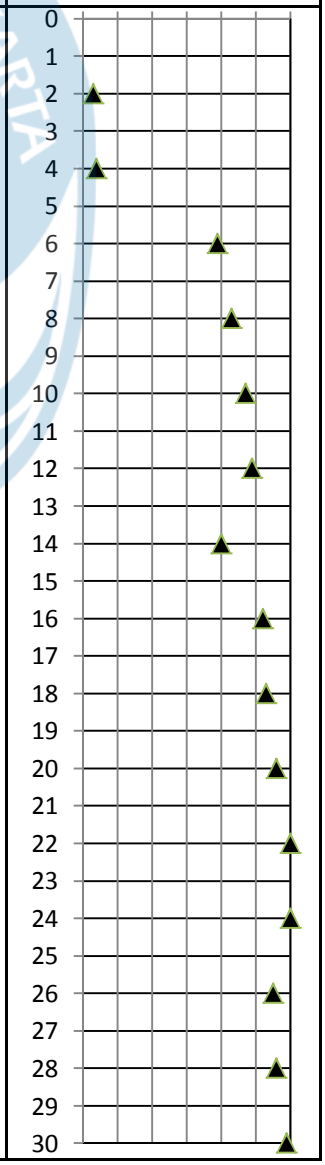
GROUND WATER LEVEL : - 3,00 m from ground level

WEATHER CONDITION : FINE

ESTIMATED SEASONAL HIGH : -

Depth (m)	Graph Log	Material Description (field observations)	Contact Depth (m)	Sample Number	Blow Counts (N Value) N1	N2	N3	NV	Water Level Elevation (m)
1		Pasir halus berlempung (coklat, abu-abu)	5						
2					1	1	2	3	
3									-3.00
4					1	2	2	4	
5									
6		Pasir kerikil (coklat, abu-abu)	2	I	7	16	23	39	
7									
8		Pasir halus berlempung (coklat, abu-abu)	3		7	18	25	43	
9									
10					12	19	28	47	
11		Pasir (coklat, hitam)	4						
12					12	21	28	49	
13									
14					11	19	21	40	
15		Pasir kasar (coklat, hitam)	3	II					
16					13	24	28	52	
17									
18		Pasir (coklat, hitam)	7		13	24	29	53	
19									
20					16	25	31	56	
21									
22					16	27	33	60	
23									
24					17	25	35	60	
25		Pasir berlempung (coklat, abu-abu)	6						
26					17	23	32	55	
27									
28					18	23	33	56	
29									
30					18	25	34	59	

SPT Value



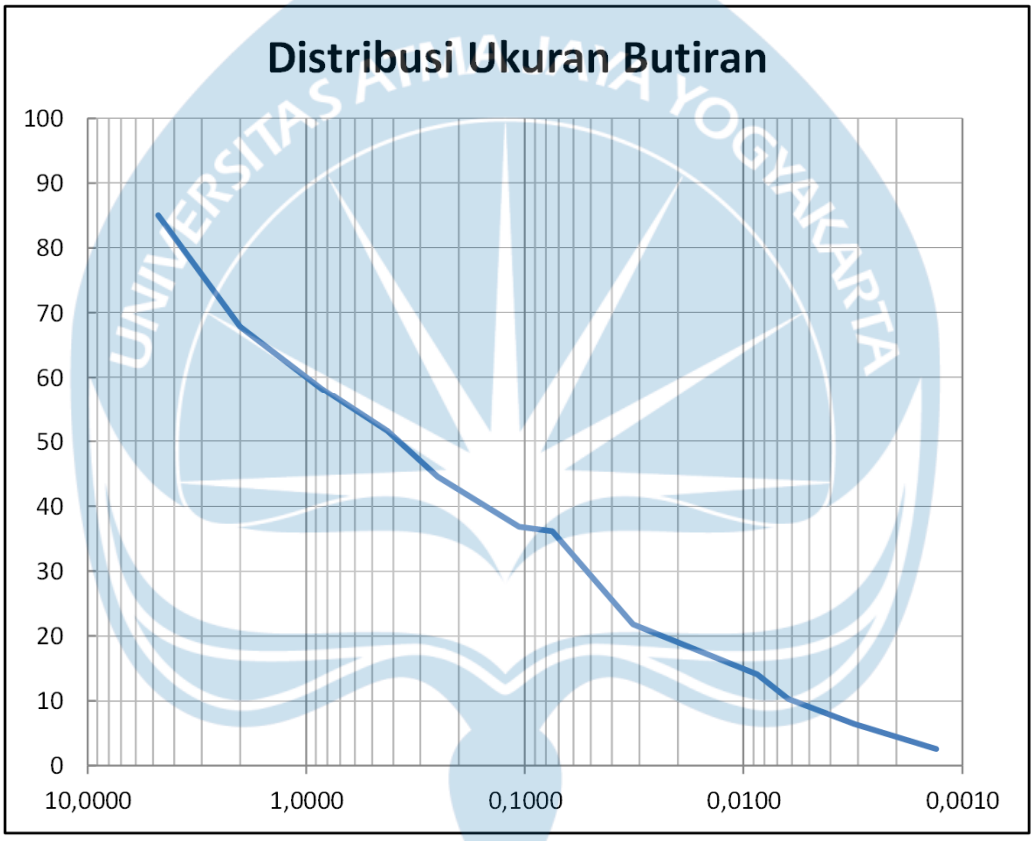
Catatan: Pada pengamatan di lapangan, lanau bisa tampak seperti pasir halus atau pasir sangat halus

Laboratorium Mekanika Tanah
UNIVERSITAS ATMA JAYA YOGYAKARTA
Fakultas Teknik - Program Studi Teknik Sipil
Jl. Babarsari No. 44 Yogyakarta 55281 Indonesia
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH 1 15



No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4,750	15,0	85,1	85,05
10	2,000	17,2	67,8	67,82
20	0,850	9,6	58,22	58,22
40	0,425	6,7	51,56	51,56
60	0,250	7,0	44,58	44,58
140	0,106	7,7	36,84	36,84
200	0,075	0,7	36,14	36,14
Pan		36,14		

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Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

REKAP HASIL PENGUJIAN TANAH

Proyek :
Lokasi :
Tanggal :

Titik	Kedalaman (m)	Kadar Air (%)	Berat Jenis (G)	γ_b (gr/cm^3)	γ_k (gr/cm^3)	Pengujian Geser Langsung	
						c (kg/cm^2)	θ˚
BH 1	15	56,32	2,48	1,56	1,00	0,17	22,85

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SOIL MECHANIC LABORATORY
CIVIL ENGINEERING PROGRAM
FACULTY OF ENGINEERING, UAJY
44 BABARSARI STREET, YOGYAKARTA 55281
Tel: +62-274-487711 ext. 1055
Fax: +62-274-487748

Boring Number:

BH-2

BOR LOG

CLIENT:

PROJECT CONTRACT NUMBER:

PROJECT TITLE :

PROJECT LOCATION :

DATE STARTED:

DATE COMPLETED :

DRILLING CONTRACTOR:

DRILLING METHOD: ROTARY SPINDLE, SKID MOUNTED TYPE

LOGGED BY:

CHECKED BY:

GROUND ELEVATION : - 0,50 m from road level

HOLE SIZE : 7.295cm

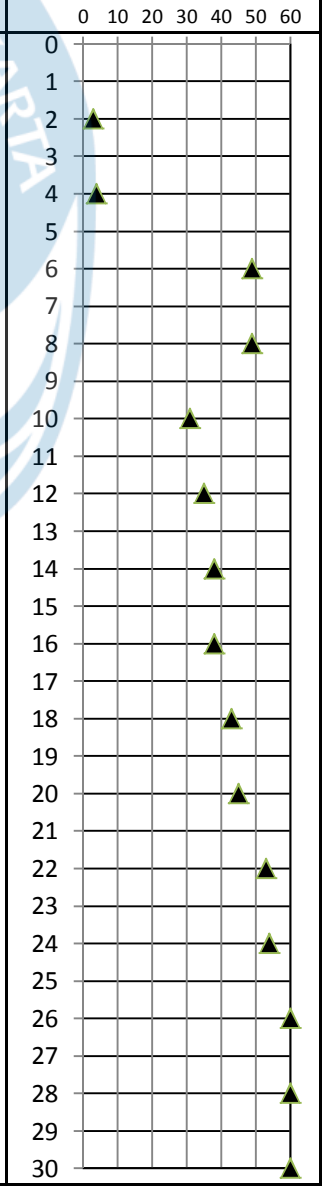
GROUND WATER LEVEL : - 3,00 m from ground level

WEATHER CONDITION : FINE

ESTIMATED SEASONAL HIGH : -

Depth (m)	Graph Log	Material Description (field observations)	Contact Depth (m)	Sample Number	Blow Counts (N Value) N1	N2	N3	NV	Water Level Elevation (m)
1									
2		Pasir halus berlempung (coklat)	5		1	1	2	3	
3									-3.00
4					1	2	2	4	
5									
6		Pasir kerikil (coklat, hitam)	1	I	11	18	31	49	
7		Pasir sedang (coklat, hitam)	3						
8					11	18	31	49	
9									
10		Pasir kasar kasar (coklat, hitam)	11	II	9	13	18	31	
11									
12					9	15	20	35	
13									
14					10	17	21	38	
15									
16					12	17	21	38	
17									
18					13	19	24	43	
19									
20					14	19	26	45	
21		Pasir (coklat, hitam)	5						
22					17	21	32	53	
23									
24					17	21	33	54	
25									
26		Pasir berlempung (coklat, abu-abu)	5		19	23	37	60	
27									
28					19	24	36	60	
29									
30					19	24	36	60	

SPT Value



Catatan: Pada pengamatan di lapangan, lanau bisa tampak seperti pasir halus atau pasir sangat halus

Laboratorium Mekanika Tanah
UNIVERSITAS ATMA JAYA YOGYAKARTA
Fakultas Teknik - Program Studi Teknik Sipil
Jl. Babarsari No. 44 Yogyakarta 55281 Indonesia
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

REKAP HASIL PENGUJIAN TANAH

Proyek :
Lokasi :
Tanggal :

Titik	Kedalaman (m)	Kadar Air (%)	Berat Jenis (G)	γ_b (gr/cm^3)	γ_k (gr/cm^3)	Pengujian Geser Langsung	
						c (kg/cm^2)	θ°
BH2	10	27,57	2,74	1,89	1,48	0,03	25,70

Laboratorium Mekanika Tanah
UNIVERSITAS ATMA JAYA YOGYAKARTA
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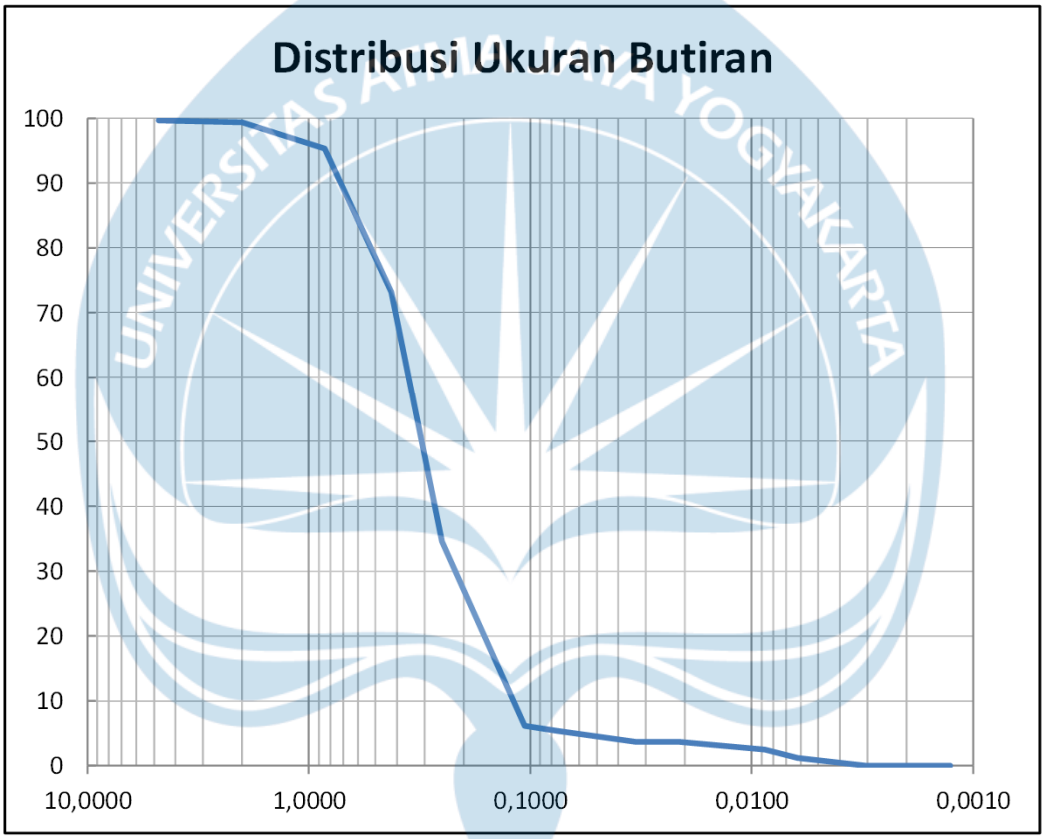
Jl. Babarsari No. 44 Yogyakarta 55281 Indonesia
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH2 10



No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4,750	0,3	99,7	99,69
10	2,000	0,3	99,4	99,41
20	0,850	4,1	95,3	95,30
40	0,425	22,2	73,14	73,14
60	0,250	38,6	34,54	34,54
140	0,106	28,4	6,12	6,12
200	0,075	0,8	5,32	5,32
Pan		5,32		

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SOIL MECHANIC LABORATORY
CIVIL ENGINEERING PROGRAM
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44 BABARSARI STREET, YOGYAKARTA 55281
Tel: +62-274-487711 ext. 1055
Fax: +62-274-487748

Boring Number:

BH-3

BOR LOG

CLIENT:

PROJECT TITLE :

PROJECT CONTRACT NUMBER:

PROJECT LOCATION :

DATE STARTED:

DATE COMPLETED :

DRILLING CONTRACTOR:

DRILLING METHOD: ROTARY SPINDLE, SKID MOUNTED TYPE

LOGGED BY:

CHECKED BY:

GROUND ELEVATION : - 0,50 m from road level

HOLE SIZE : 7.295cm

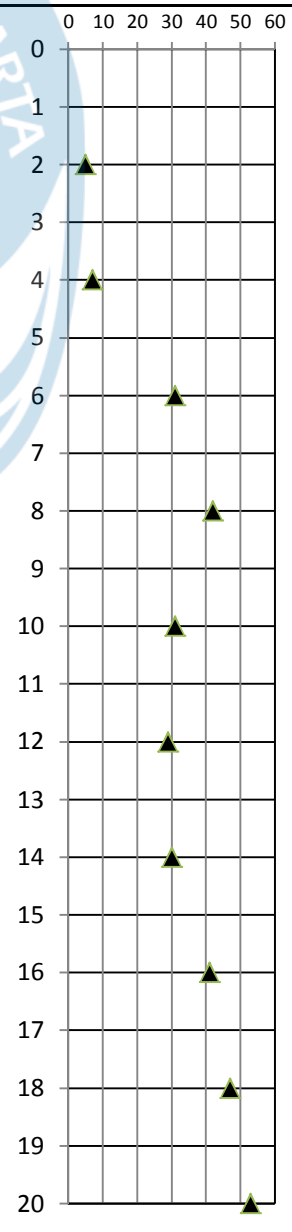
GROUND WATER LEVEL : - 3,00 m from ground level

WEATHER CONDITION : FINE

ESTIMATED SEASONAL HIGH : -

Depth (m)	Graph Log	Material Description (field observations)	Contact Depth (m)	Sample Number	Blow Counts (N Value) N1	N2	N3	NV	Water Level Elevation (m)
1		Pasir halus berlempung (coklat)	5						-3.00
2					1	2	3	5	
3									
4					2	3	4	7	
5									
6		Pasir kerikil (coklat, hitam)	1	I	8	12	19	31	
7		Pasir (coklat, hitam)	4						
8					9	15	27	42	
9									
10					7	13	18	31	
11		Pasir kasar (coklat, hitam)	6						
12				II	7	12	17	29	
13									
14					7	12	18	30	
15									
16					9	17	24	41	
17		Pasir (coklat, hitam)	4						
18					12	21	26	47	
19									
20					12	23	30	53	

SPT Value



Catatan: Pada pengamatan di lapangan, lanau bisa tampak seperti pasir halus atau pasir sangat halus

Laboratorium Mekanika Tanah
UNIVERSITAS ATMA JAYA YOGYAKARTA
Fakultas Teknik - Program Studi Teknik Sipil
Jl. Babarsari No. 44 Yogyakarta 55281 Indonesia
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

REKAP HASIL PENGUJIAN TANAH

Proyek :
Lokasi :
Tanggal :

Titik	Kedalaman (m)	Kadar Air (%)	Berat Jenis (G)	γ_b (gr/cm^3)	γ_k (gr/cm^3)	Pengujian Geser Langsung	
						c (kg/cm^2)	θ˚
BH3	12	29,72	2,69	1,97	1,52	0,01	22,53

Laboratorium Mekanika Tanah
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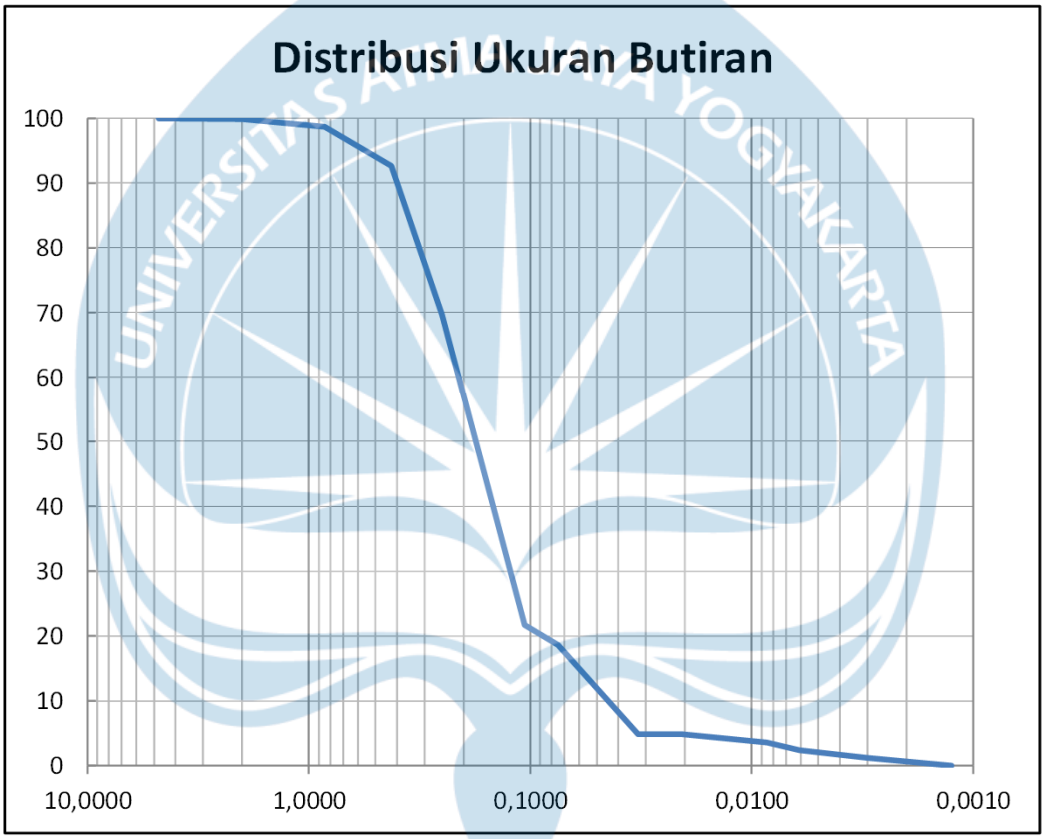
Telp. +62-274-565411 ext. 2052, Fax. +62-274-487748

ANALISA BUTIRAN

Proyek :
Lokasi :
Tanggal :

Titik : BH3 12

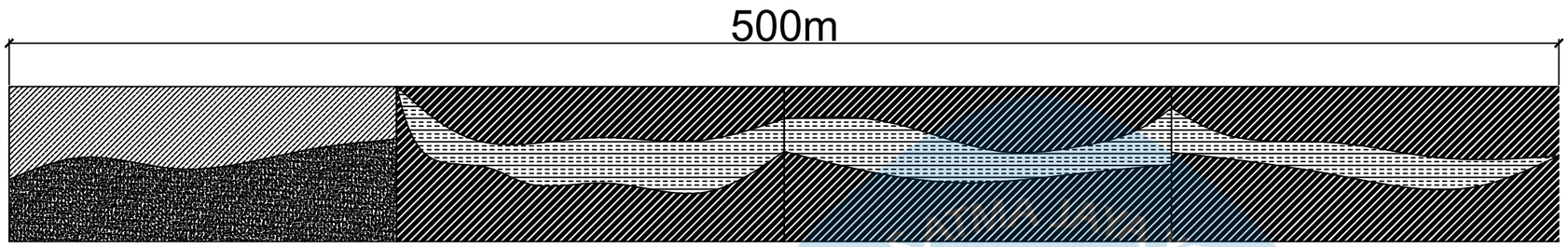


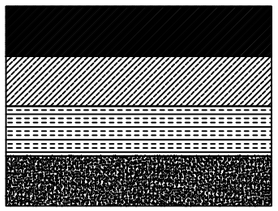
No. Sieve	Ukuran Butiran (mm)	Berat Tertahan	Berat Lolos	Prosen Lolos
4	4,750	0,1	99,9	99,94
10	2,000	0,1	99,8	99,84
20	0,850	1,1	98,7	98,70
40	0,425	6,0	92,69	92,69
60	0,250	23,0	69,67	69,67
140	0,106	48,0	21,66	21,66
200	0,075	3,0	18,63	18,63
Pan		18,63		

Lampiran 9

LAYOUT STRUKTUR GEOTEKNIK STRATIGRAFI

Stratigrafi Tanah STA : 0 + 000 - 0 + 500





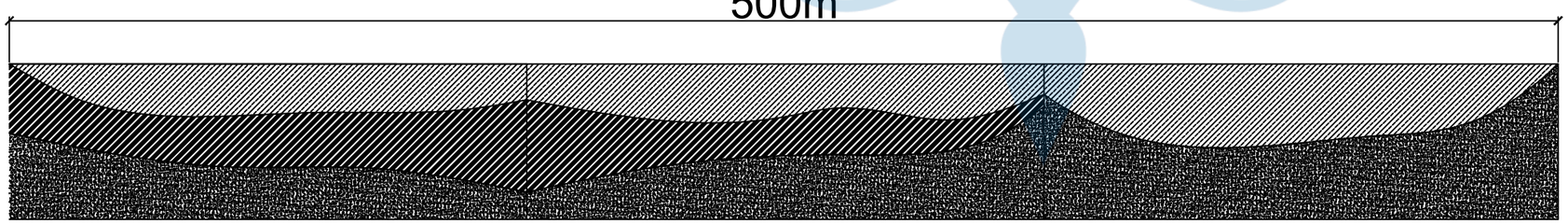
Lempung

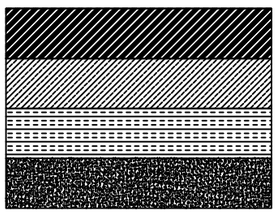
lanau

Gambut

PASIR

Stratigrafi Tanah STA : 0 + 500 - 1 + 000





Lempung

lanau

Gambut

PASIR

TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

Stanislaus Jivanta Danitza (190217591)
Adelia Sherlly Quinones (200218232)
Tsabita Qotrunnada (200218303)

Diperiksa Oleh :

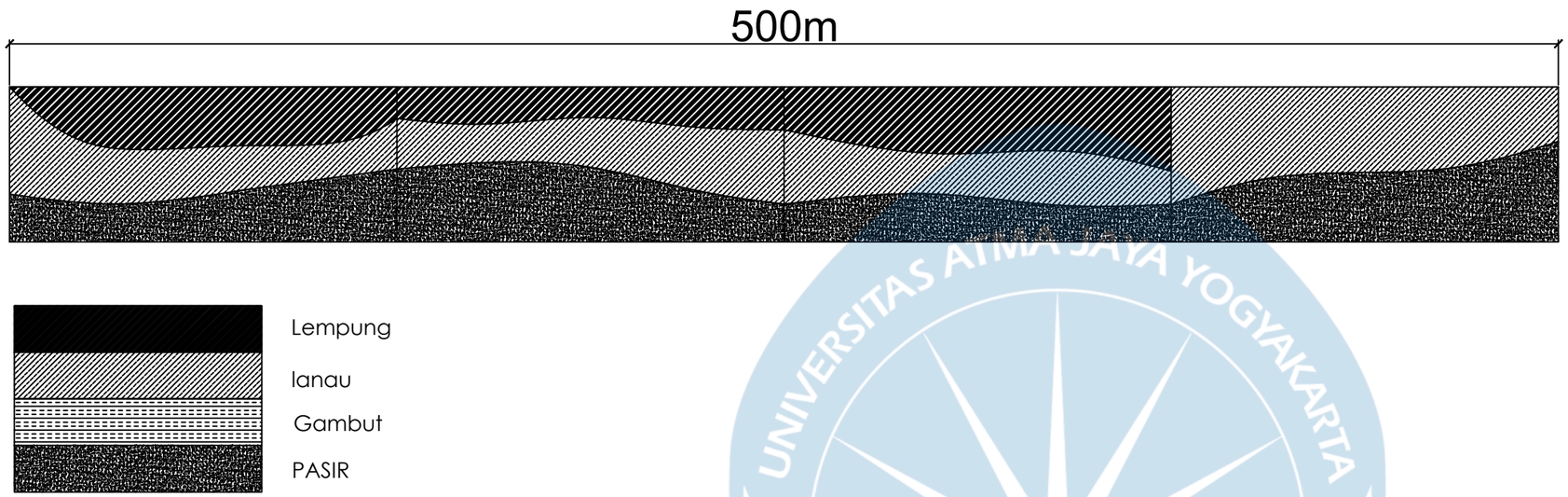
William Wijaya S.T. M. Eng.

Disetujui Oleh :

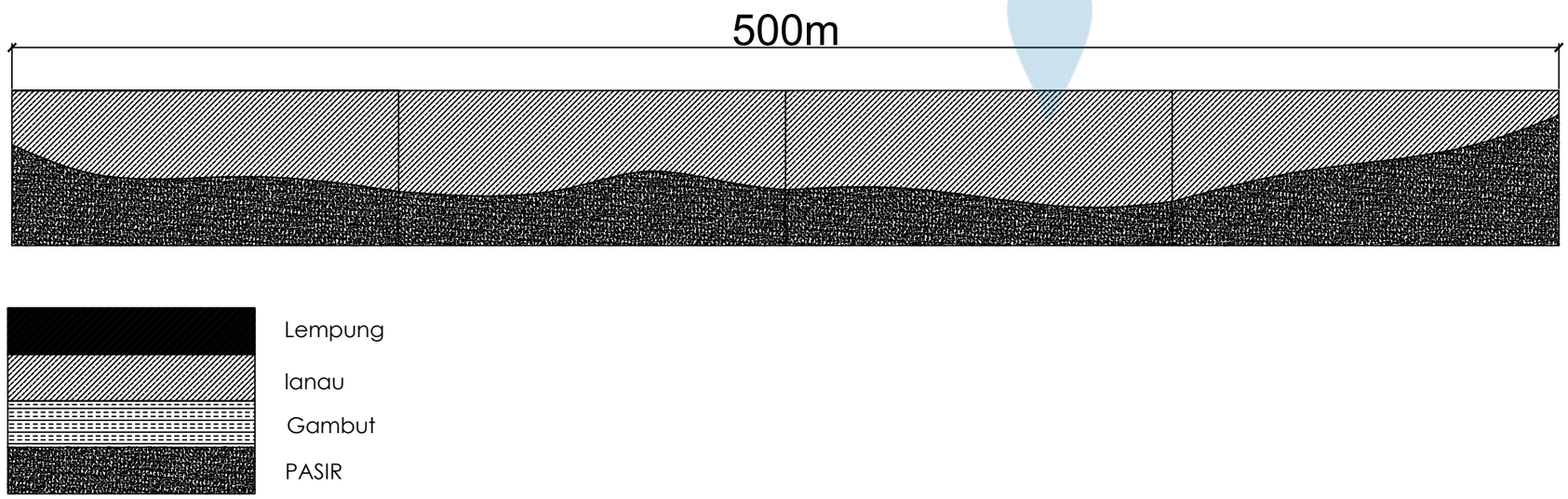
William Wijaya S.T. M. Eng.

SKALA : 1:1000

Stratigrafi Tanah STA : 1 + 000 - 1 + 500



Stratigrafi Tanah STA : 1 + 500 - 2 + 000



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

Stanislaus Jivanta Danitza (190217591)
Adelia Sherlly Quinones (200218232)
Tsabita Qotrunnada (200218303)

Diperiksa Oleh :

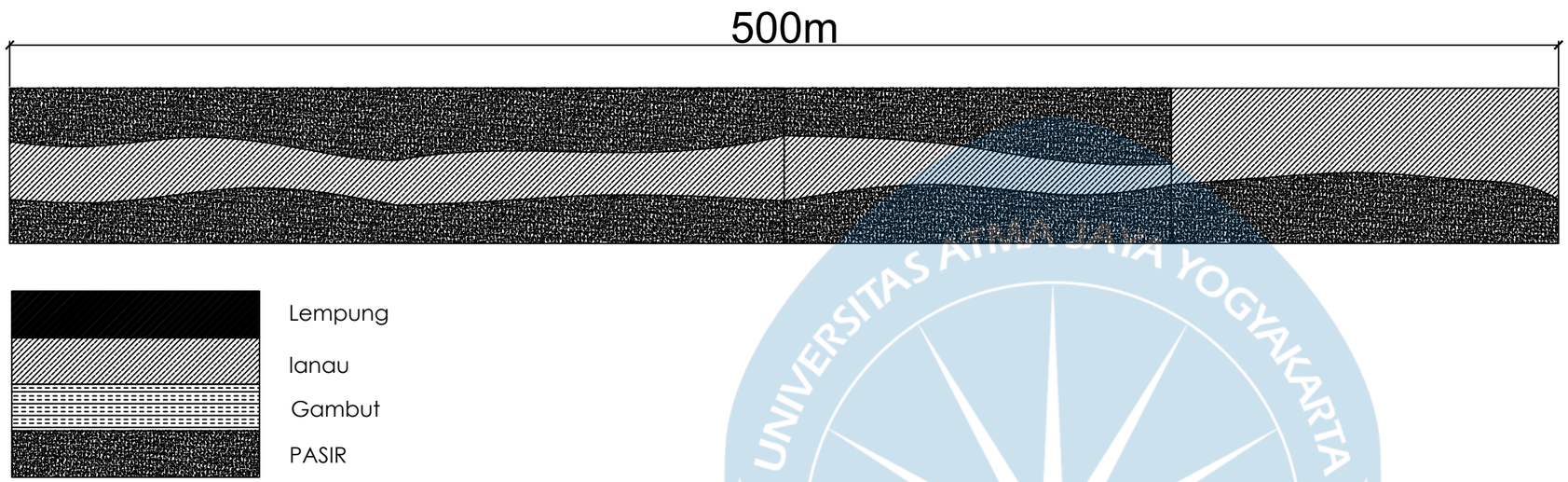
William Wijaya S.T. M. Eng.

Disetujui Oleh :

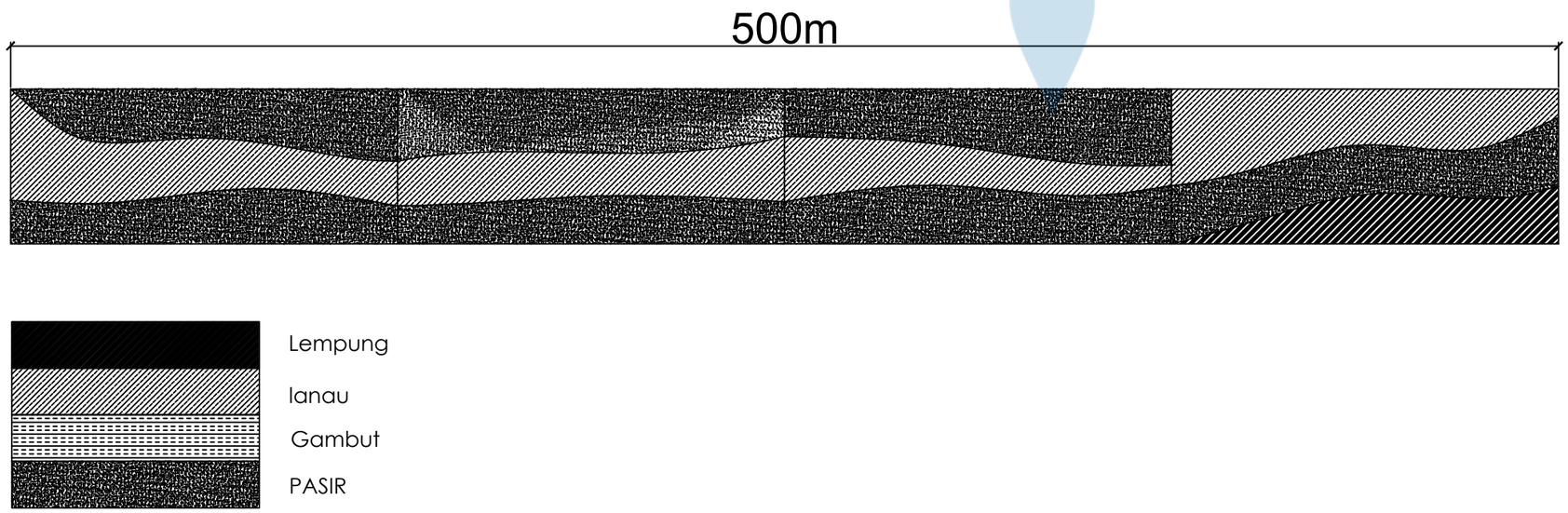
William Wijaya S.T. M. Eng.

SKALA : 1:1000

Stratigrafi Tanah STA : 2 + 000 - 2 + 500



Stratigrafi Tanah STA : 2 + 500 - 3 + 000



TUGAS AKHIR PERANCANGAN
INFRASTRUKTUR JALAN
SEMESTER GENAP
TAHUN AJARAN 2022/2023

Digambar & Disusun Oleh :

Stanislaus Jivanta Danitza (190217591)
Adelia Sherlly Quinones (200218232)
Tsabita Qotrunnada (200218303)

Diperiksa Oleh :

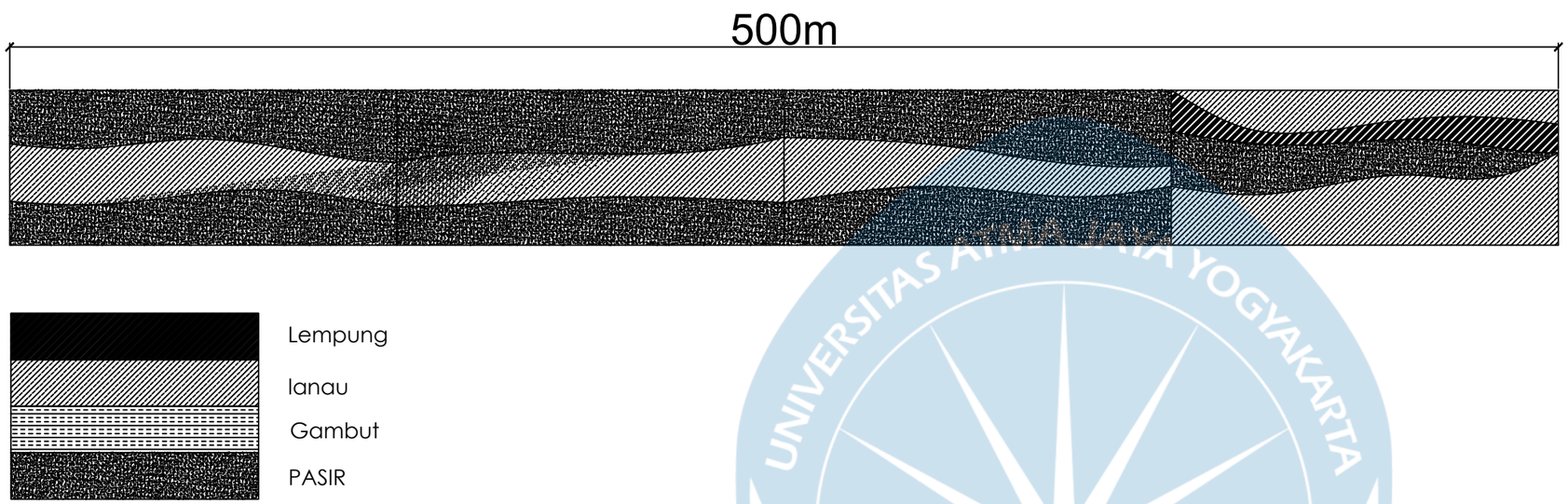
William Wijaya S.T. M. Eng.

Disetujui Oleh :

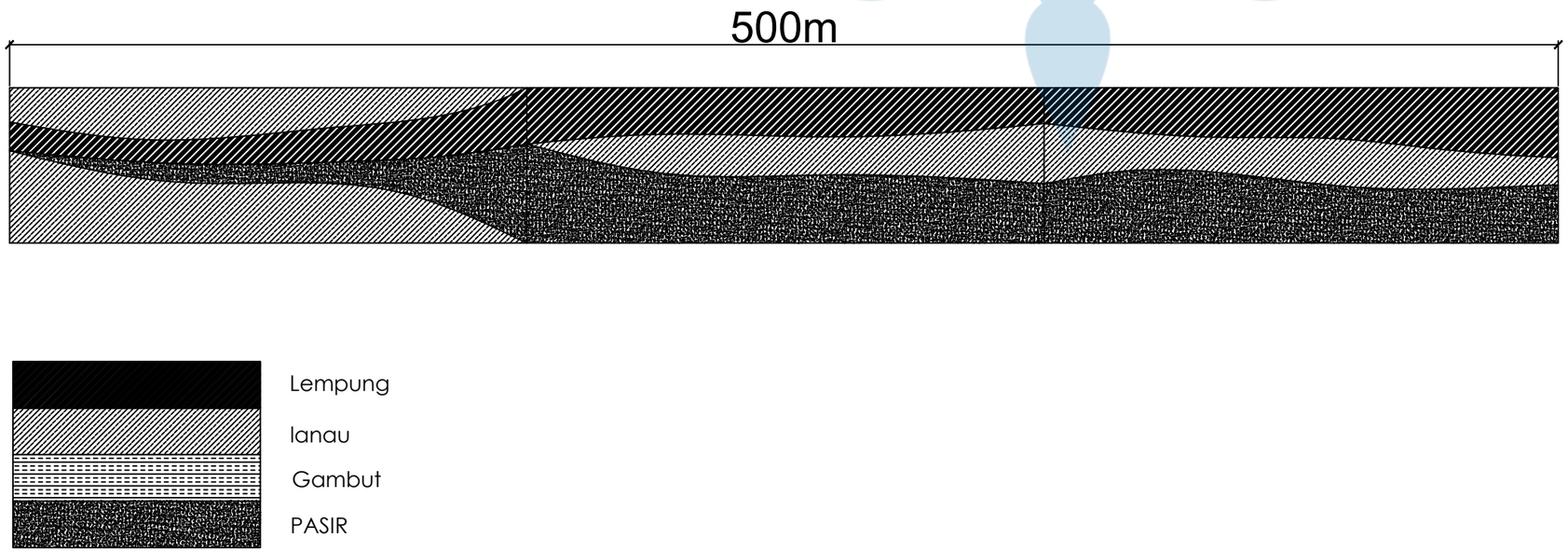
William Wijaya S.T. M. Eng.

SKALA :	1:1000

Stratigrafi Tanah STA : 3 + 000 - 3 + 500



Stratigrafi Tanah STA : 3 + 500 - 4 + 000



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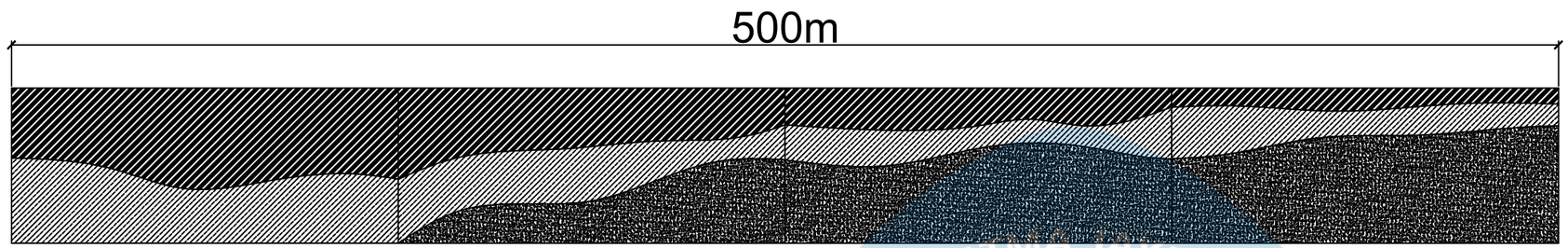
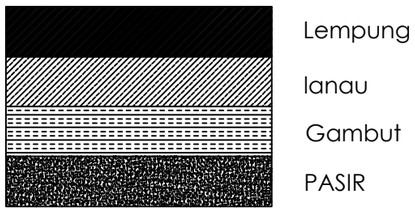
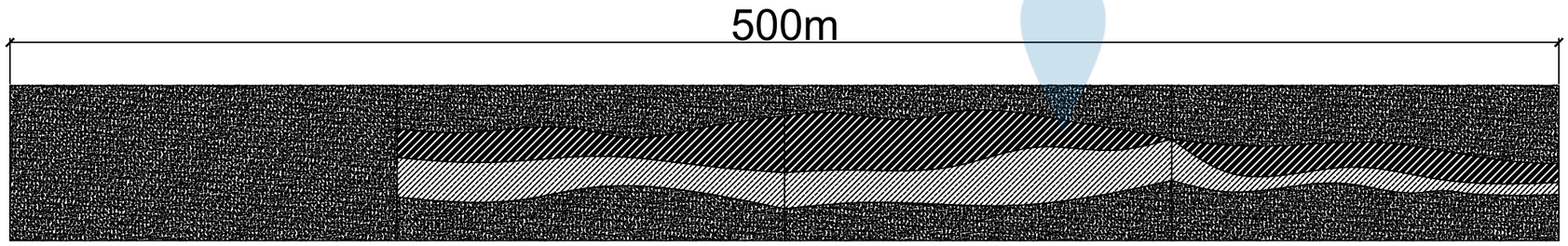
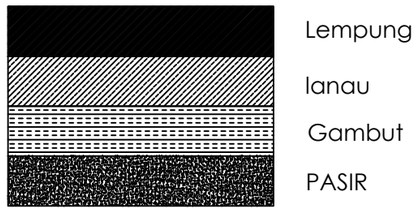
Stratigrafi Tanah STA : 4 + 000 - 4 + 500





Stratigrafi Tanah STA : 4 + 500 - 5 + 000





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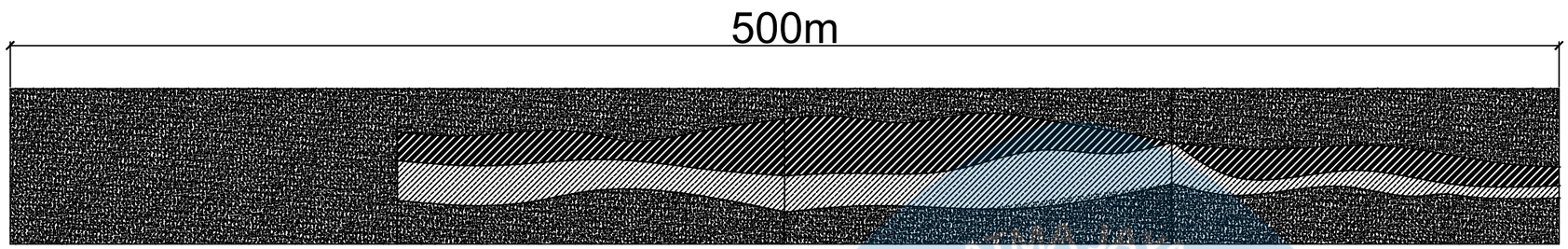
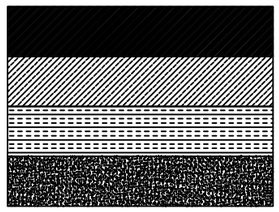
Stratigrafi Tanah STA : 5 + 000 - 5 + 500





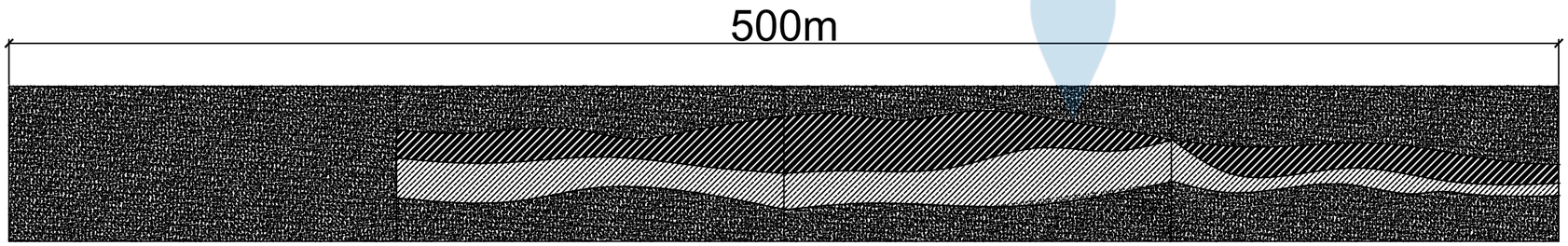
Lempung

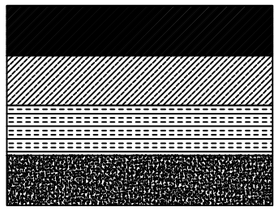
lanau

Gambut

PASIR

Stratigrafi Tanah STA : 5 + 500 - 5 + 850





Lempung

lanau

Gambut

PASIR

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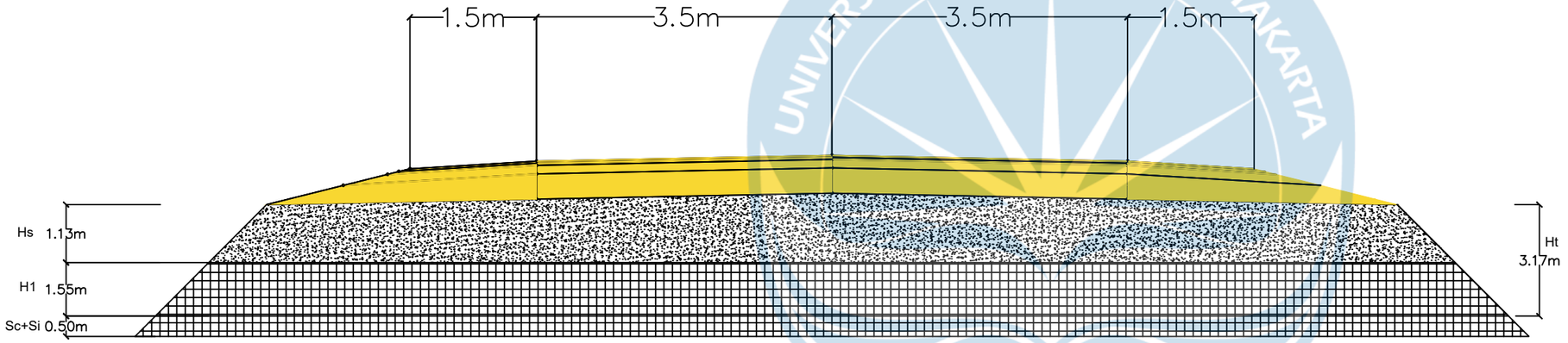
SKALA :	1:1000

Lampiran 10

ANALISIS STABILITAS TIMBUNAN

STA : 0 + 500

Detail Desain Timbunan Dengan Perkerasan



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