

LAMPIRAN A

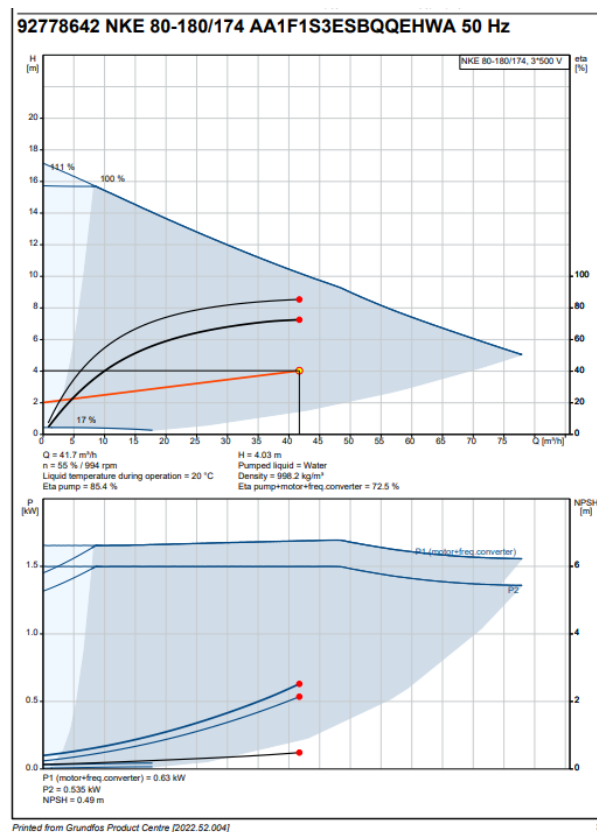
SPESIFIKASI AKSESORIS DAN PELENGKAP

KELAS D				
Diameter		Tebal Dinding (mm)	Panjang (m)	Sistem Penyambungan
inch	mm			
1¼	42	1,30	4	SC
1½	48	1,30	4	SC
2	60	1,30	4	SC
2½	76	1,40	4	SC
3	89	1,60	4	SC
4	114	2,00	4	SC
5	140	2,60	4	SC
6	165	3,00	4	SC
8	216	4,20	4	SC
10	267	5,20	4	SC
12	318	6,20	4	SC

SC : Solvent Cement (Penyambungan dengan Lem)

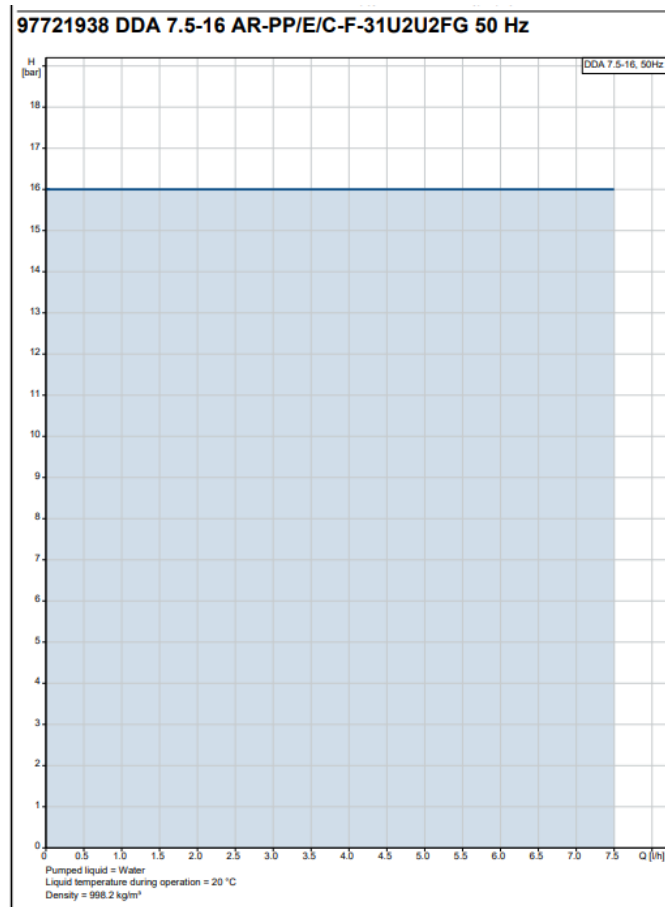
Gambar A. 1 Diameter Pipa Pasaran Merk Rucika

Sumber: https://www.rucika.co.id/wp-content/uploads/2019/10/Katalog-Produk-Rucika-Pipe-Standard_Rev.pdf



Gambar A. 2 Grafik Pompa Centrifugal DAF ke Bak Ekualisasi dan Pompa Centrifugal Activated Sludge ke Clarifier

Sumber: [NKE 80-180/174 AA1F1S3ESBQQEHWA - 92778642 | Grundfos](#)



Gambar A. 3 Grafik Dosing Pump untuk Bak Pembubuh DAF dan Koagulasi merk Groundfos Tipe DDA 7.5 - 16

Sumber: <https://product-selection.grundfos.com/products/dosing-pumps-digital/dda/dda-75-16-97721938?productnumber=97721938&custid=GMA&frequency=50&tab=variant-curves&pumpssystemid=1717605187>

Model	HLBQ-170	HLBQ-215	HLBQ-270	HLBQ-330	HLBQ-550
Bubble Type	Coarse Bubble	Fine Bubble	Fine Bubble	Fine Bubble	Fine Bubble
Size	8 inch	8 inch	9 inch	12 inch	675/215mm
MOC	EPDM/Silicone/PTFE – ABS/Strengthened PP-GF				
Connector	3/4"NPT male thread				
Membrane Thickness	2mm	2mm	2mm	2mm	2mm
Bubble Size	4-5mm	1-2mm	1-2mm	1-2mm	1-2mm
Design Flow	1-5m3/h	1.5-2.5m3/h	3-4m3/h	5-6m3/h	6-14m3/h
Flow Range	0-9m3/h	1-8m3/h	1-8m3/h	1-12m3/h	1-18m3/h
SOTE	≥10%	≥38%	≥38%	≥38%	≥40%
	(6m submerged)	(6m submerged)	(6m submerged)	(6m submerged)	(6m submerged)
SOTR	≥0.21kg O2/h	≥0.31kg O2/h	≥0.49kg O2/h	≥0.75kg O2/h	≥0.88kg O2/h
SAE	≥7.5kg O2/kwh	≥8.8kg O2/kwh	≥8.8kg O2/kwh	≥8.8kg O2/kwh	≥9.2kg O2/kwh
Headloss	2000-3000Pa	1500-4000Pa	1500-4000Pa	1500-4000Pa	2000-3500Pa
Service Area	0.5-0.8m2/pce	0.2-0.64m2/pce	0.25-1.0m2/pce	0.4-1.6m2/pce	0.5-0.25m2/pce
Service Life	> 5 years				

Gambar A. 4 Gambar Spesifikasi Diffuser Fine Bubble untuk Bak Ekualisasi dan DAF tipe HLBQ-215

Sumber: <https://www.hollyhb.com/diffuser/high-efficient-wastewater-treatment-fine.html>

■ BP • BL type SPECIFICATION

Hz	Type		Motor				Bore		Maxi. Discharge	Maxi. Capacity	Noise	L x W x H	Weight
	BP	BL	HP	kW	PH	V	inch	mm	mmAq	m3/min	dB(A)	mm	kG
50	BP-0212	BL-0212	1/4	0.2	1	220~240	2-1/2	65	100	2.1	50	250x345x305	11
	BP-0512	BL-0512	1/2	0.37	1	220~240	3	80	130	6.3	58	295x350x340	17
	BP-0532	BL-0532											
	BP-112	BL-112	1	0.75	3	220~440	4	100	220	15.7	64	365x425x410	20.5
	BP-132	BL-132	2	1.5	3	220~440	4	100	230	18.3	72	370x490x480	27
	BP-232	BL-232											
	BP-332	BL-332	3	2.2	3	220~440	5	125	230	35.0	76	445x550x540	36
	BP-532	BL-532	5	3.7	3	220~440	6	150	300	35.0	80	510x660x620	48
60	BP-0212	BL-0212	1/4	0.2	1	220~240	2-1/2	65	120	3.4	62	250x345x305	11
	BP-0512	BL-0512	1/2	0.37	1	220~240	3	80	150	8.5	70	295x350x340	17
	BP-0532	BL-0532											
	BP-112	BL-112	1	0.75	3	220~440	4	100	240	18.3	80	365x425x410	20.5
	BP-132	BL-132	2	1.5	3	220~440	4	100	300	21.5	90	370x490x480	27
	BP-232	BL-232											
	BP-332	BL-332	3	2.2	3	220~440	5	125	335	40.0	95	445x550x540	36
	BP-532	BL-532	5	3.7	3	220~440	6	150	350	44.3	100	510x660x620	48

BP Type Turbo Blower
BL Type Turbo Blower with " Flow Regulating Disc "

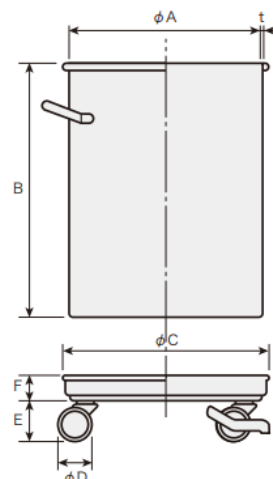
Gambar A. 5 Gambar Spesifikasi Blower Showfou untuk bak ekualisasi dan DAF

Sumber: <https://www.showfoupump.com/product-detail/turbo-blower-bs/>

TEMPERATURE (°C)	DENSITY (g/cm ³ , γ)	ABSOLUTE VISCOSITY (centipoise, cP)	KINEMATIC VISCOSITY (centistokes, cSt)
0	0.99987	1.7923	1.7923
1	0.99983	1.7320	1.7321
2	0.99977	1.6740	1.6741
3	0.99979	1.6193	1.6190
4	1.00000	1.5676	1.5676
5	0.99999	1.5188	1.5188
6	0.99997	1.4726	1.4726
7	0.99993	1.4288	1.4288
8	0.99988	1.3872	1.3874
9	0.99981	1.3476	1.3479
10	0.99973	1.3097	1.3101
11	0.99963	1.2735	1.2740
12	0.99952	1.2390	1.2396
13	0.99940	1.2061	1.2068
14	0.99927	1.1748	1.1756
15	0.99913	1.1447	1.1457
16	0.99897	1.1156	1.1168
17	0.99880	1.0876	1.0888
18	0.99862	1.0609	1.0618
19	0.99843	1.0340	1.0356
20	0.99823	1.0087	1.0105
21	0.99802	0.9843	0.9863
22	0.99780	0.9608	0.9629
23	0.99757	0.9380	0.9403
24	0.99733	0.9161	0.9186
25	0.99707	0.8949	0.8975
26	0.99681	0.8744	0.8774
27	0.99654	0.8551	0.8581
28	0.99626	0.8363	0.8394
29	0.99597	0.8181	0.8214
30	0.99568	0.8004	0.8039
31	0.99537	0.7834	0.7870
32	0.99505	0.7670	0.7705

Gambar A. 6 Densitas, Viskositas Absolut, dan Viskositas Kinematis Air

Sumber: Reynolds & Richards, 1996



Standard specification

Model	Dimension	Thickness	Maximum capacity
	A×B (mm)	t (mm)	(t)
ZT-20	300×300	0.8	20
ZT-25	330×330	0.8	25
ZT-35	360×360	0.9	35
ZT-45	390×390	0.9	45
ZT-65	430×450	1.0	65
ZT-80	470×470	1.2	80
ZT-100	470×600	1.2	100
ZT-150	565×600	1.2	150
ZT-200	565×900	1.2	200

Gambar A. 7 Spesifikasi Tangki Pembubuh Satake untuk DAF dan Koagulasi

Sumber : https://www.satake.co.jp/en/product/catalog/data/02_aseries.pdf

Standard specification

Model	Frame number	Motor			Impeller				Shaft length (mm)
		Power (kW)	Number of poles (P)	Phase and voltage (V)	Frequency (Hz)	Revolution (min ⁻¹)	Diameter (mm)	Stage	
A720-0.065A	1	0.065	4	Single-phase 100	50	300	150	1	600
					60	360			
A720-0.1A		0.1	4	Single-phase 100	50	300	220	1	800
					60	360			
A720-0.1B	2	0.1	4	Three-phase 200	50	300	220	1	800
					60	360			
A720-0.2A		0.2	4	Single-phase 100	50	300	270	1	1000
					60	360			
A720-0.2B		0.2	4	Three-phase 200	50	300	270	1	1000
					60	360			
A720-0.4B	3	0.4	4	Three-phase 200	50	300	310	1	1250
					60	360			
A725-0.4B	4	0.4	6	Three-phase 200	50	200	350	1	1500
					60	240			
A720-0.75B		0.75	4	Three-phase 200	50	300	350	1	1500
					60	360			
A725-0.75B	5	0.75	6	Three-phase 200	50	200	400	1	2000
					60	240			
A720-1.5B		1.5	4	Three-phase 200	50	300	400	1	2000
					60	360			

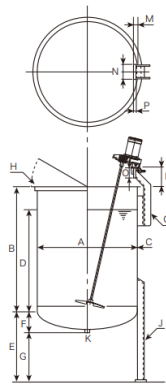
* The standard materials for the shaft and the impeller are SUS304 or SUS316.

* The A720 and A725 are the replacement for the A520.

Gambar A. 8 Spesifikasi motor pengaduk Satake untuk Bak Pembubuh DAF dan Koagulasi

Sumber: https://www.satake.co.jp/en/product/catalog/data/02_aseries.pdf

Specification of optional tanks



Model	Available capacity (ℓ)	Maximum capacity (ℓ)	Tank dimension (mm)												Weight (kg)	
			A	B	C	D	E	F	G	H(SUS)	J(SS)	K	Tank	Lid*		
ZTF-100	100	130	500	600	3	450	450	134	316	L25×25×3	3-L50×50×6	1/2 B Socket	43	3		
ZTF-150	150	182	550	700	3	562	450	144	306	L30×30×3	3-L50×50×6	1/2 B Socket	51	4		
ZTF-200	200	260	650	700	3	520	450	163	287	L30×30×3	3-L50×50×6	1/2 B Socket	60	5.5		
ZTF-300	300	361	700	850	3	692	500	173	327	L40×40×3	4-L50×50×6	1/2 B Socket	77	6.5		
ZTF-400	400	478	800	850	3	695	500	192	308	L40×40×3	4-L50×50×6	1/2 B Socket	88	8		
ZTF-500	500	600	850	950	3	770	500	202	298	L40×40×3	4-L65×65×6	1/2 B Socket	106	9		
ZTF-800	800	963	1000	1100	3	900	550	240	310	L40×40×5	4-100×50×5	1B Socket	155	12		
ZTF-1000	1000	1177	1100	1100	3	910	550	260	290	L40×40×5	4-100×50×5	1B Socket	170	19		
ZTF-1500	1500	1721	1250	1245	4	1065	600	290	310	L40×40×5	4-100×50×5	1B Socket	260	24		
ZTF-2000	2000	2275	1300	1550	4	1345	600	298	302	L50×50×6	4-125×65×6	1B Socket	335	26		
ZTF-2000S	2000	2273	1400	1300	4	1125	600	318	282	L50×50×6	4-125×65×6	1B Socket	325	30		
ZTF-2500	2500	3073	1500	1550	4	1230	700	370	330	L50×50×6	4-125×65×6	1B JIS 10KF	400	34		
ZTF-3000	3000	3603	1500	1850	4	1510	700	370	330	L50×50×6	4-125×65×6	1B JIS 10KF	448	34		
ZTF-3000S	3000	3521	1600	1550	4	1290	750	400	350	L50×50×6	4-125×65×6	1B JIS 10KF	422	38		
ZTF-3500	3500	4125	1600	1850	4	1540	700	400	300	L50×50×6	4-150×75×9	1B JIS 10KF	524	38		
ZTF-3500S	3500	4004	1700	1550	4	1330	800	430	370	L50×50×6	4-150×75×9	1B JIS 10KF	514	43		
ZTF-4000	4000	4685	1700	1850	4	1550	800	430	370	L65×65×6	4-150×75×9	1 1/2 B JIS 10KF	575	45		
ZTF-4000S	4000	4520	1800	1500	4	1345	800	450	350	L65×65×6	4-150×75×9	1 1/2 B JIS 10KF	550	50		
ZTF-4500	4500	5285	1800	1850	5	1542	800	450	350	L65×65×6	4-200×90×8	1 1/2 B JIS 10KF	750	50		
ZTF-5000	5000	5924	1900	1850	5	1530	900	500	400	L65×65×6	4-200×90×8	2B JIS 10KF	800	56		

* The lids have a thickness of 1.5t for A dimension up to 1000, and 2.0t for A dimension above that.

* Jacket type is also available.

Gambar A. 9 Spesifikasi Tangki Pelarut Satake untuk DAF dan Koagulasi

Sumber: https://www.satake.co.jp/en/product/catalog/data/02_aseries.pdf

Item	Model	Flow (m ³ /h)	Head (m)	Efficiency (%)	NPSHa (m)	Inlet x outlet (mm)	Motor Power (KW)	Pump and motor weight (kg)
8	UHB-ZK65/25-80	15	82	35	4.50	65*50	18.50	
		*25	80	40				
		35	72	40				
9	UHB-ZK80/45-35	30	37	33	3.50	80*65	15.00	260.00
		*45	35	40				
		55	30	36				
10	UHB-ZK80/50-20	35	22	32	4.00	80*65	11.00	250.00
		*50	20	39				
		60	17	30				
11	UHB-ZK80/50-30	35	32	33	3.50	80*65	15.00	250.00
		*50	30	40				
		60	25	36				
12	UHB-ZK80/50-50	35	52	33	4.00	80*65	18.50	280.00
		*50	50	41				
		60	45	38				
13	UHB-ZK80/50-80	35	82	40	5.00	80*65	30.00	
		*50	80	50				
		60	72	48				
14	UHB-ZK100/60-35	50	37	38	4.00	100*80	18.50	345.00
		*60	35	40				
		80	30	42				
15	UHB-ZK100/60-50	50	52	37	4.00	100*80	22.00	380.00
		*60	50	40				
		70	45	42				
16	UHB-ZK100/100-40	70	45	41	4.00	100*80	30.00	440.00
		*100	40	40				
		110	35	33				
17	UHB-ZK100/100-80	65	82	45	5.50	100*80	45.00	
		*100	80	55				
		120	65	50				
18	UHB-ZK125/140-28	70	32	35	5.00	125*100	30.00	400.00
		*140	28	46				
		150	22	35				

Gambar A. 10 Spesifikasi Pompa Slurry

Sumber:

https://www.google.com/url?sa=t&source=web&cd=&cad=rja&uact=8&ved=2ahUKEwjLsOeK7_b7AhXwSGwGHW-4DnAQFnoECBIQAQ&url=https%3A%2F%2Fwww.sbm.com.cn%2Fuhb-zk-slurry-pump-50.html&usg=AOvVaw0hITPchExMG8V9uebc1Hkg



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TUGAS

PERANCANGAN BANGUNAN
PENGOLAHAN AIR BUANGAN
(PBPAB)

DOSEN PENGAMPUN

FIRRA ROSARIAWARI, ST., MT.

DOSEN PEMBIMBING

RIZKA NOVEMBRIANTO, ST., MT.

MAHASISWA

SITI NURISTA FITRIANI
SHALZAFATIHAH SALAMAH

NPM

19034010001
19034010028

GAMBAR

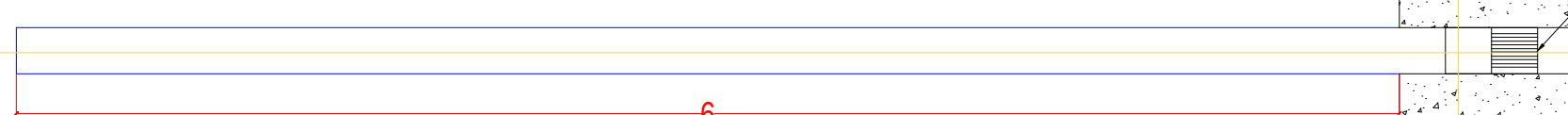
DENAH SALURAN
PEMBAWA,
BAK KONTROL dan
BAR SCREEN

SKALA

1:30

LEGENDA

DARI INLET



COR BETON

BAR SCREEN

MENUJU
BAK EKUALISASI



DENAH SALURAN PEMBAWA, BAK KONTROL dan BAR SCREEN

1:30



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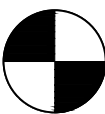
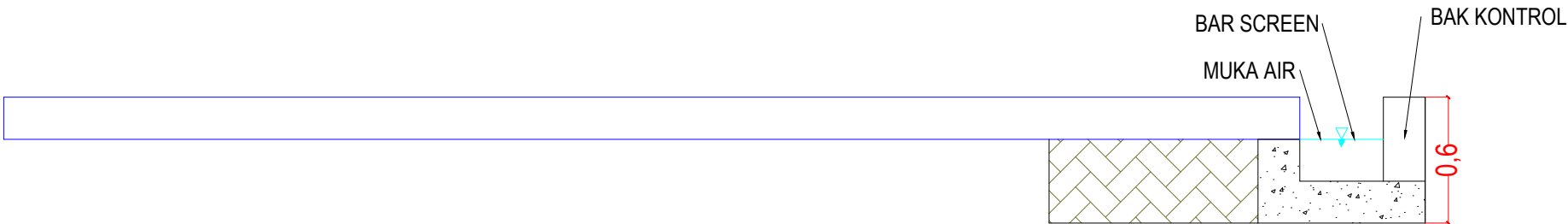
GAMBAR

SKALA

POTONGAN A - A
POTONGAN B - B
SALURAN PEMBAWA dan
BAR SCREEN

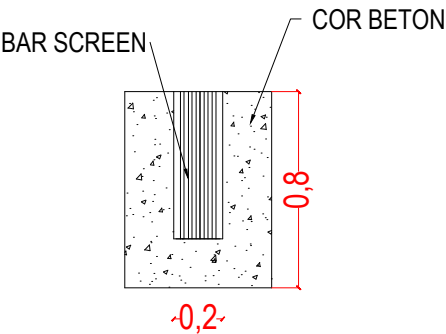
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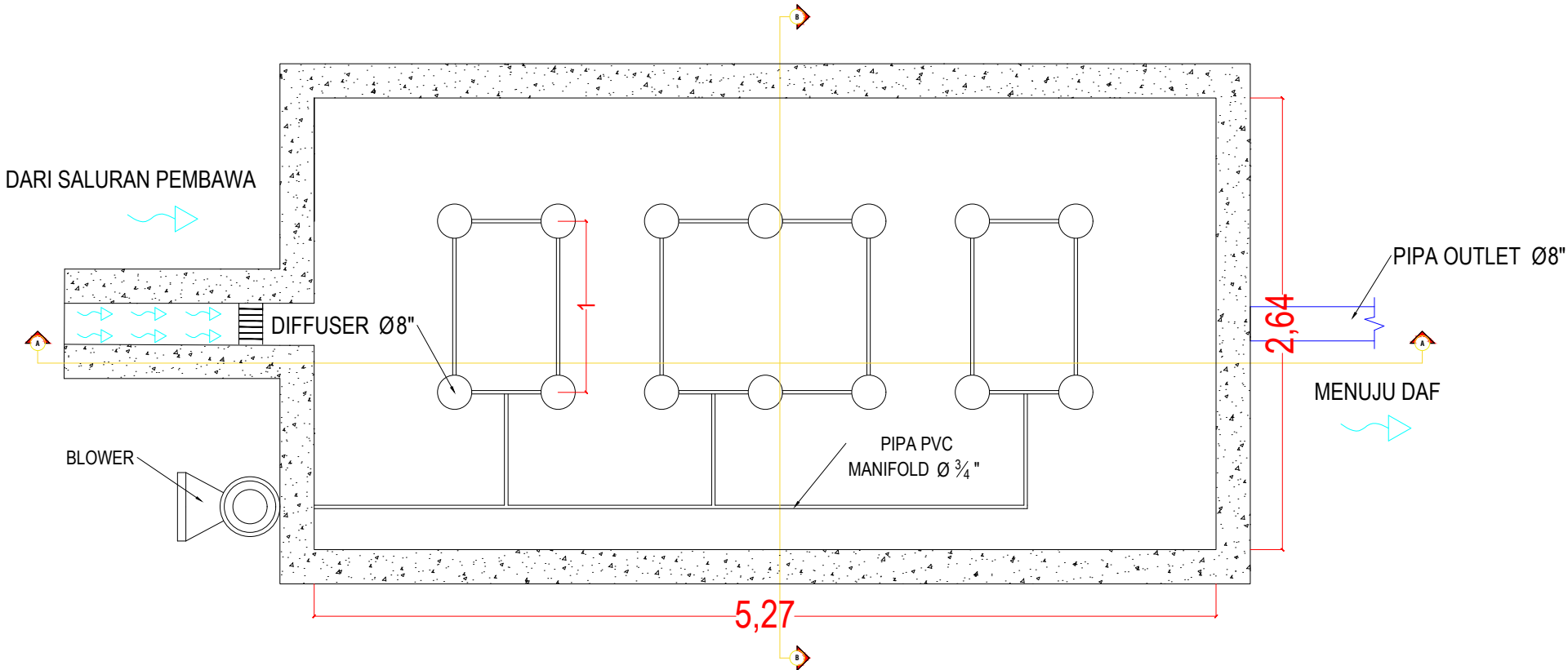
POTONGAN A - A SALURAN PEMBAWA, BAK KONTROL dan BAR SCREEN

1:30



POTONGAN B - B SALURAN PEMBAWA, BAK KONTROL dan BAR SCREEN

1:30



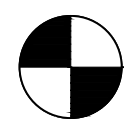
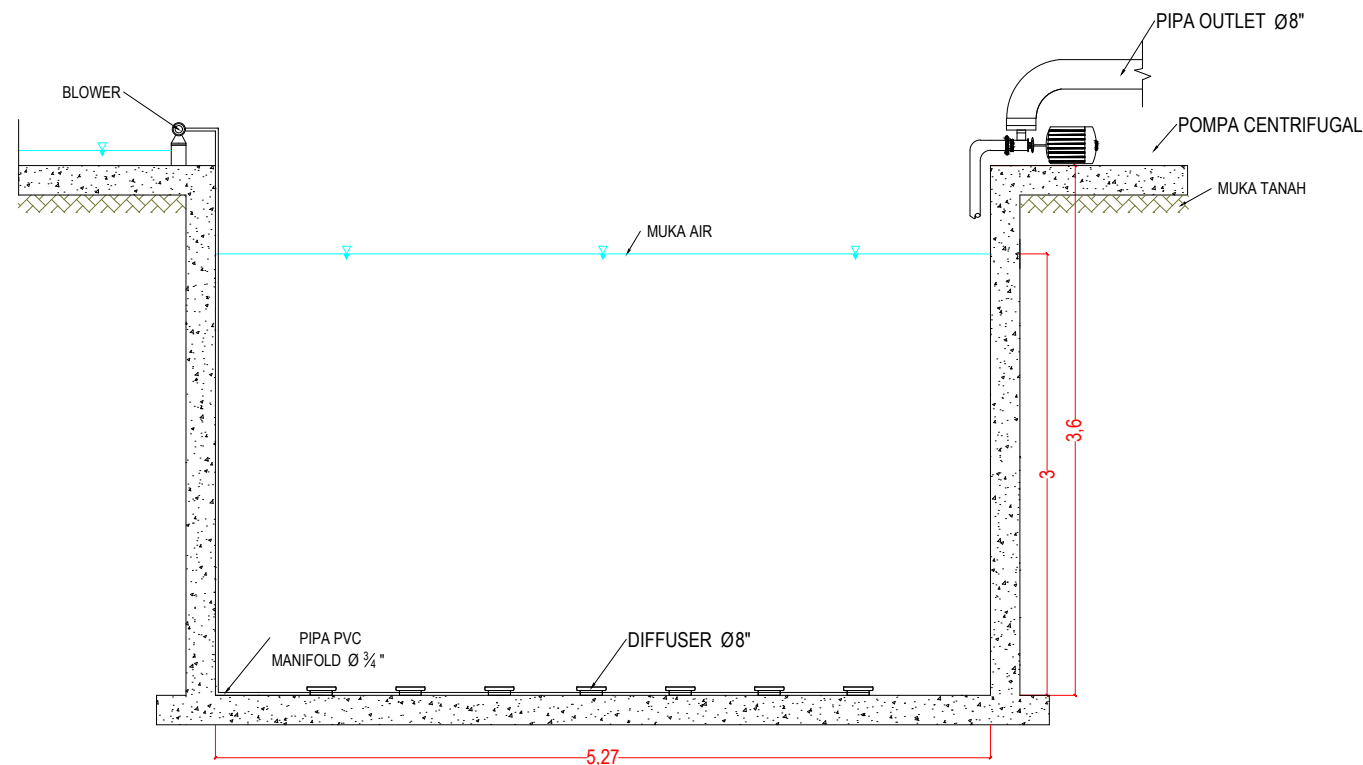
DENAH BAK EKUALISASI

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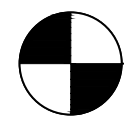
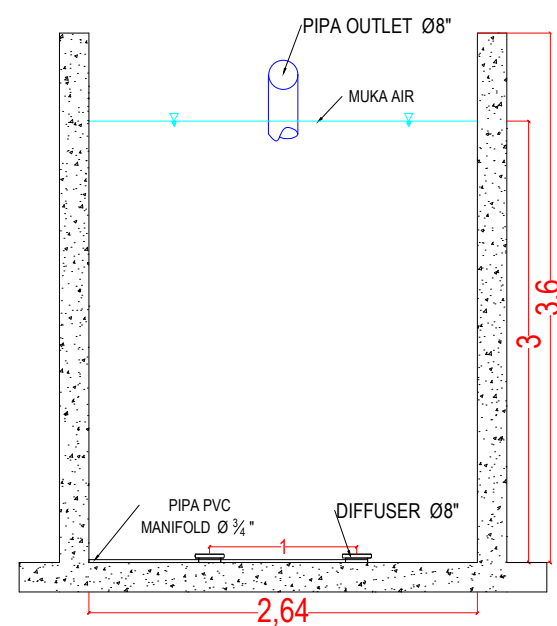
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DOSEN PEMBIMBING	
RIZKA NOVEMBRIANTO, ST., MT.	
MAHASISWA	NPM
SITI NURISTA FITRIANI	19034010001
SHALZAFATIHAH SALAMAH	19034010028
GAMBAR	SKALA
DENAH BAK EKUALISASI	1:35
LEGENDA	



POTONGAN A - A BAK EKUALISASI

1:50



POTONGAN B - B BAK EKUALISASI

1:50



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GAMBAR

SKALA

POTONGAN A - A
POTONGAN B - B
BAK EKUALISASI

1:50

LEGENDA



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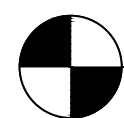
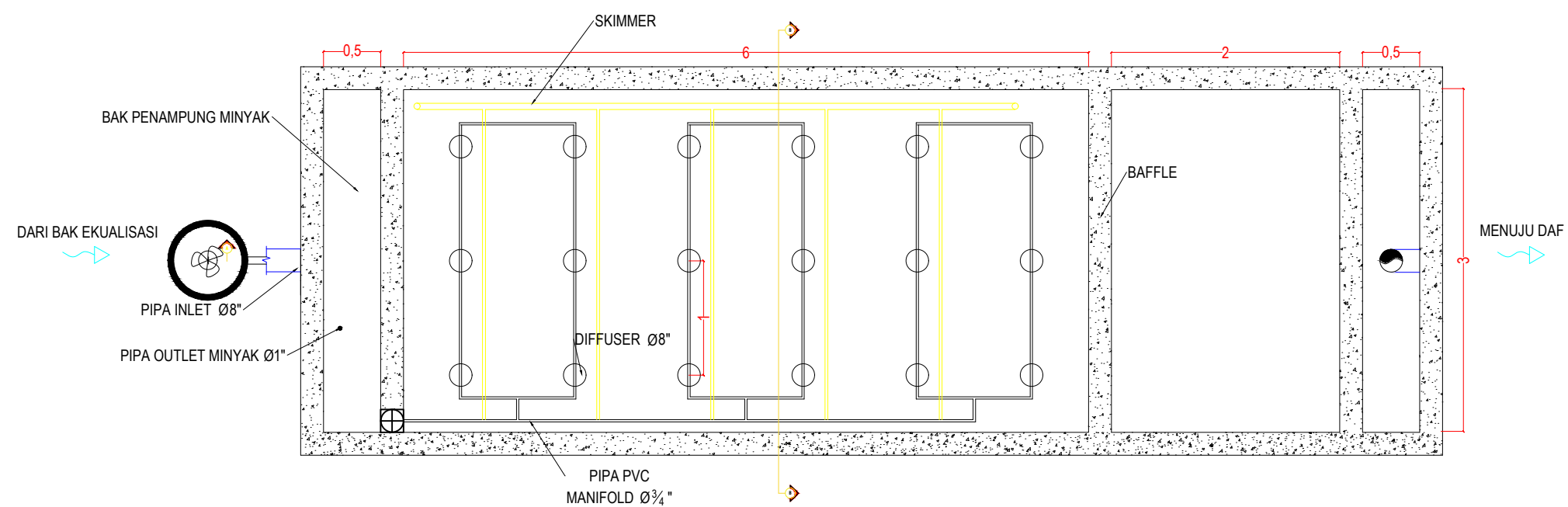
GAMBAR

SKALA

DENAH DAF

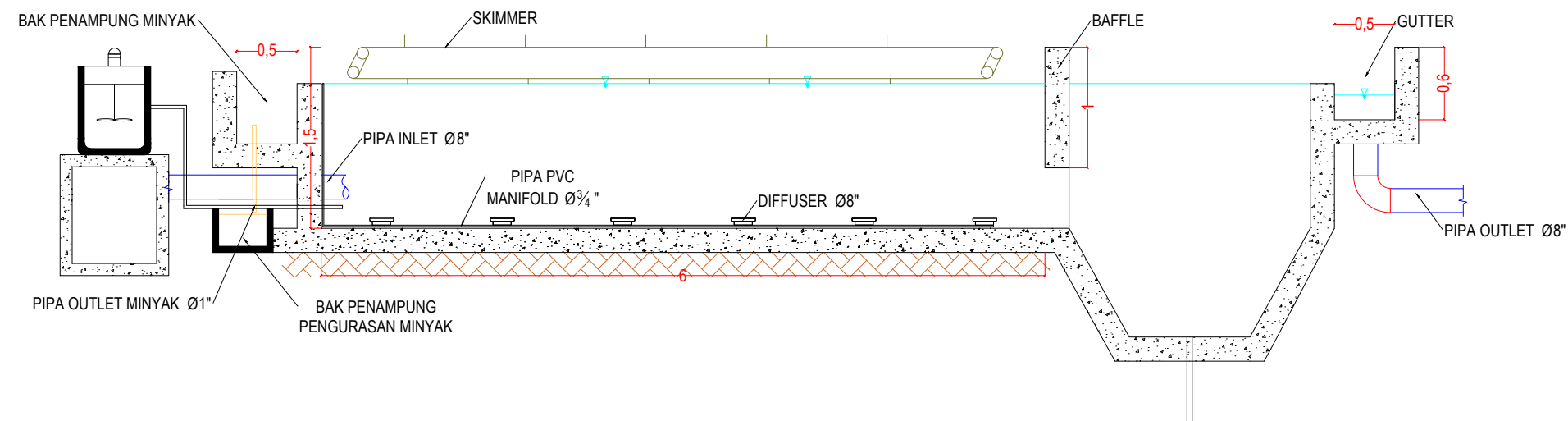
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LEGENDA

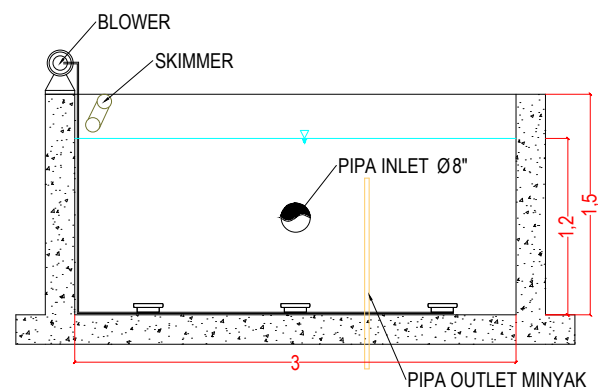


DENAH DAF

1:50



POTONGAN A - A DAF
1:50



POTONGAN B - B DAF
1:50



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PROGRAM STUDI TEKNIK LINGKUNGAN

TUGAS

PERANCANGAN BANGUNAN
PENGOLAHAN AIR BUANGAN
(PBPAB)

DOSEN PENGAMPUN

FIRRA ROSARIAWARI, ST., MT.

DOSEN PEMBIMBING

RIZKA NOVEMBRIANTO, ST., MT.

MAHASISWA

NPM

SITI NURISTA FITRIANI
SHALZAFATIHAH SALAMAH

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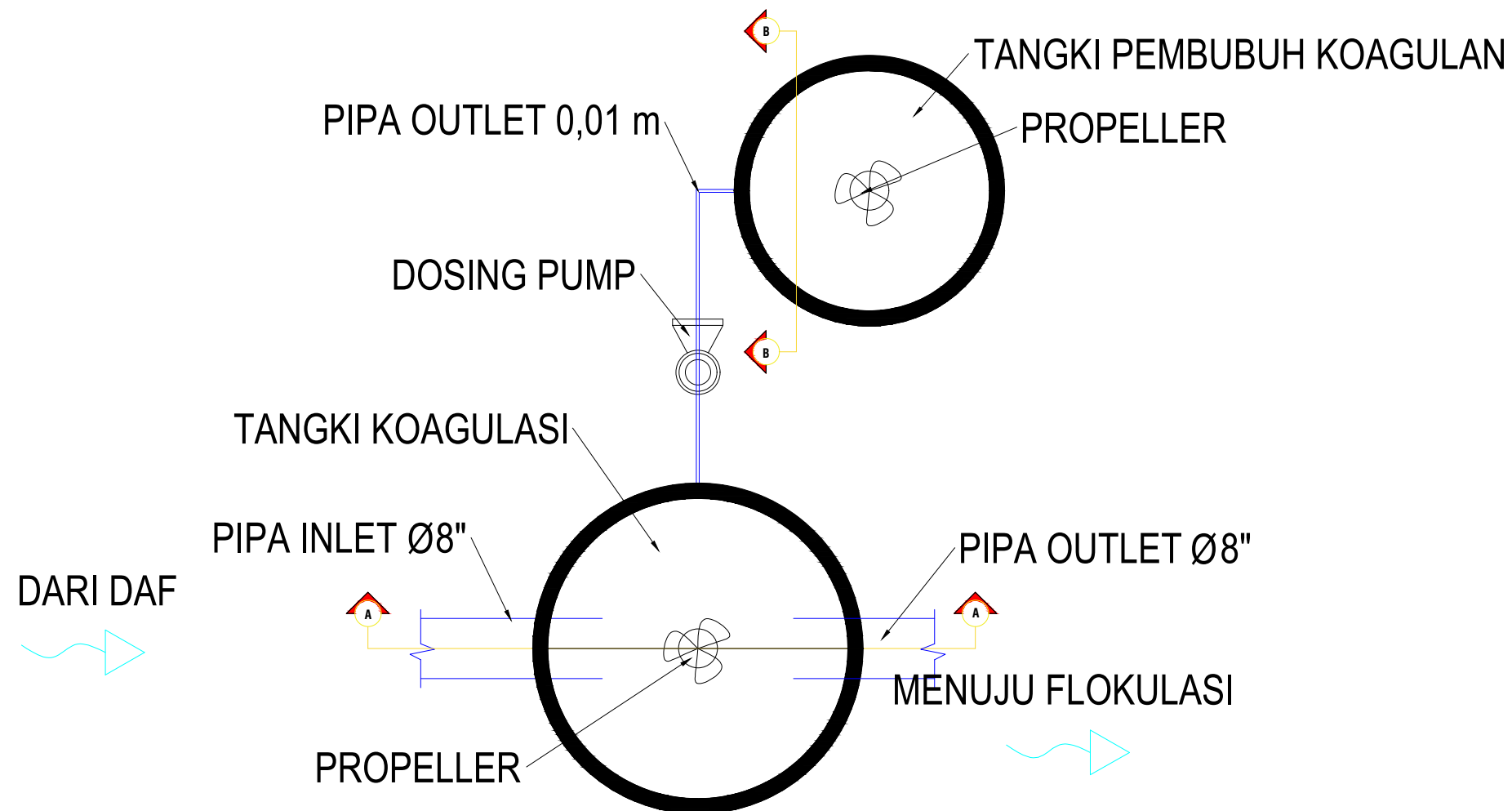
GAMBAR

SKALA

POTONGAN A - A
POTONGAN B - B
DAF

1:50

LEGENDA



 **DENAH TANGKI KOAGULAN DAN TANGKI KOAGULASI**
1:20



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PROGRAM STUDI TEKNIK LINGKUNGAN

TUGAS

PERANCANGAN BANGUNAN
PENGOLAHAN AIR BUANGAN
(PBPAB)

DOSEN PENGAMPUN

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DOSEN PEMBIMBING

RIZKA NOVEMBRIANTO, ST., MT.

MAHASISWA

SITI NURISTA FITRIANI
SHALZAFATIAH SALAMAH

NPM

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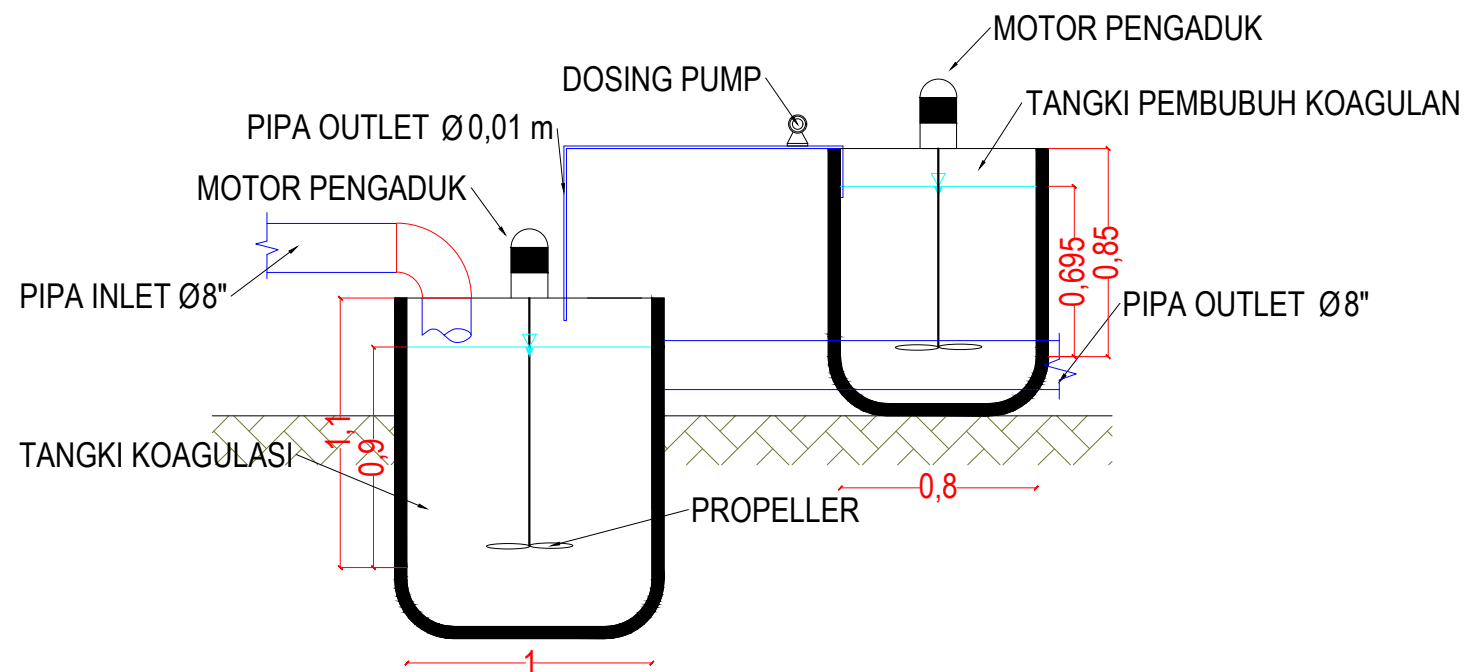
GAMBAR

DENAH TANGKI
KOAGULAN dan
TANGKI KOAGULASI

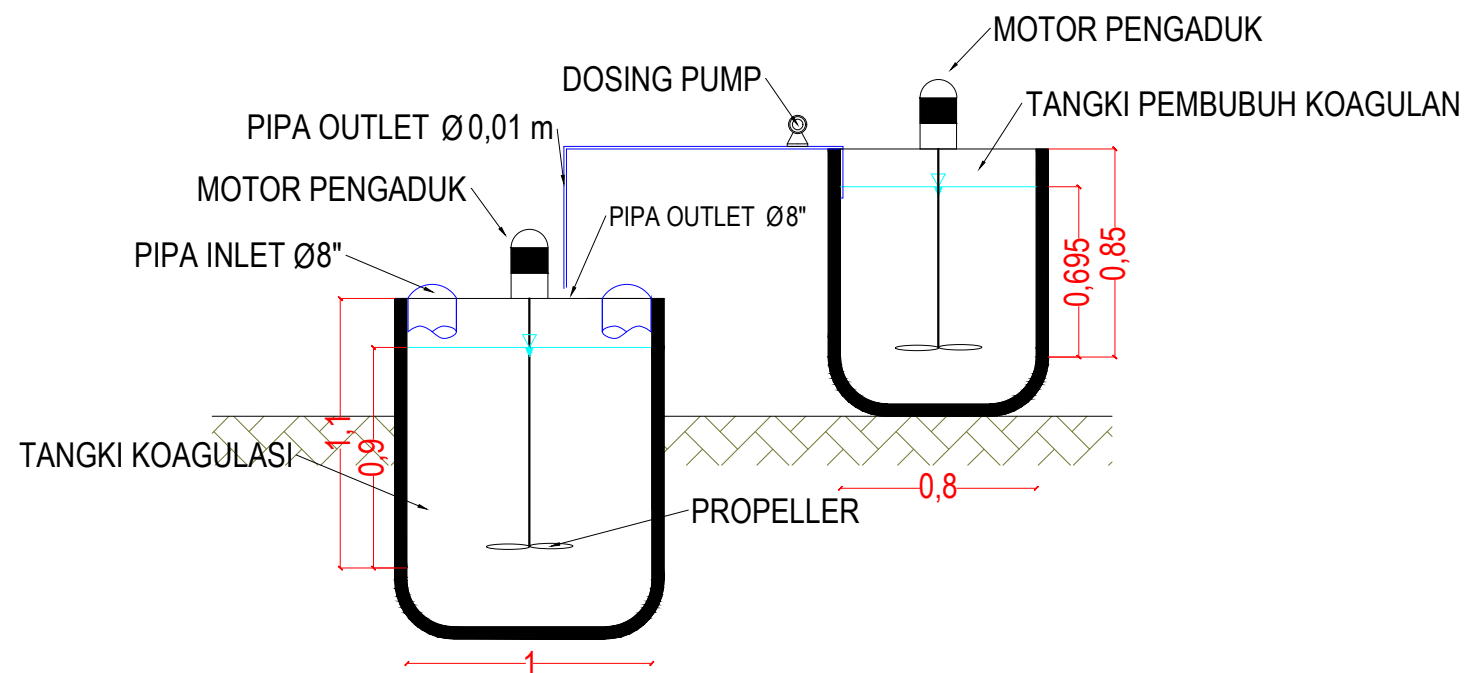
SKALA

1:20

LEGENDA



POTONGAN A - A TANGKI KOAGULAN dan TANGKI KOAGULASI
1:30



POTONGAN B - B TANGKI KOAGULAN dan TANGKI KOAGULASI
1:30



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TUGAS

PERANCANGAN BANGUNAN
PENGOLAHAN AIR BUANGAN
(PBPAB)

DOSEN PENGAMPUN

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NPM

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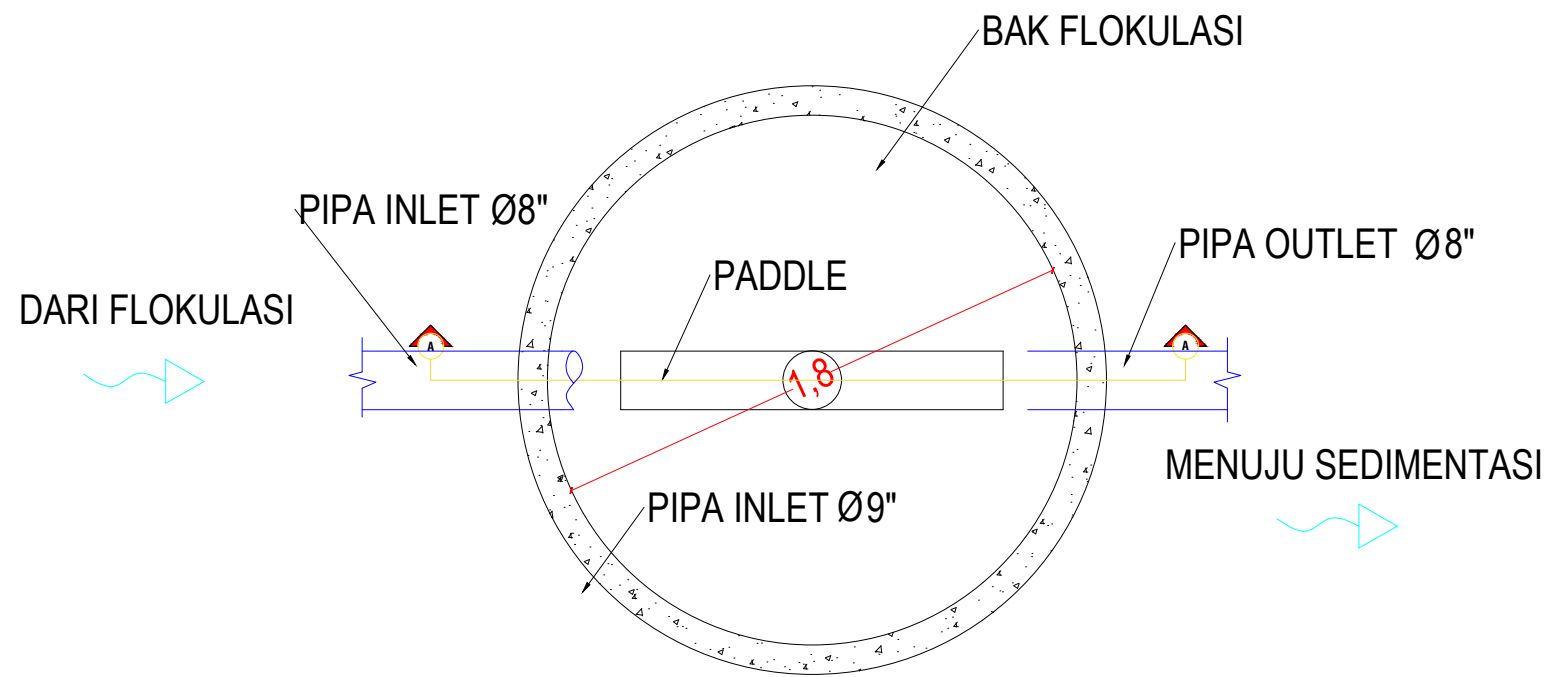
GAMBAR

POTONGAN A - A
POTONGAN B - B

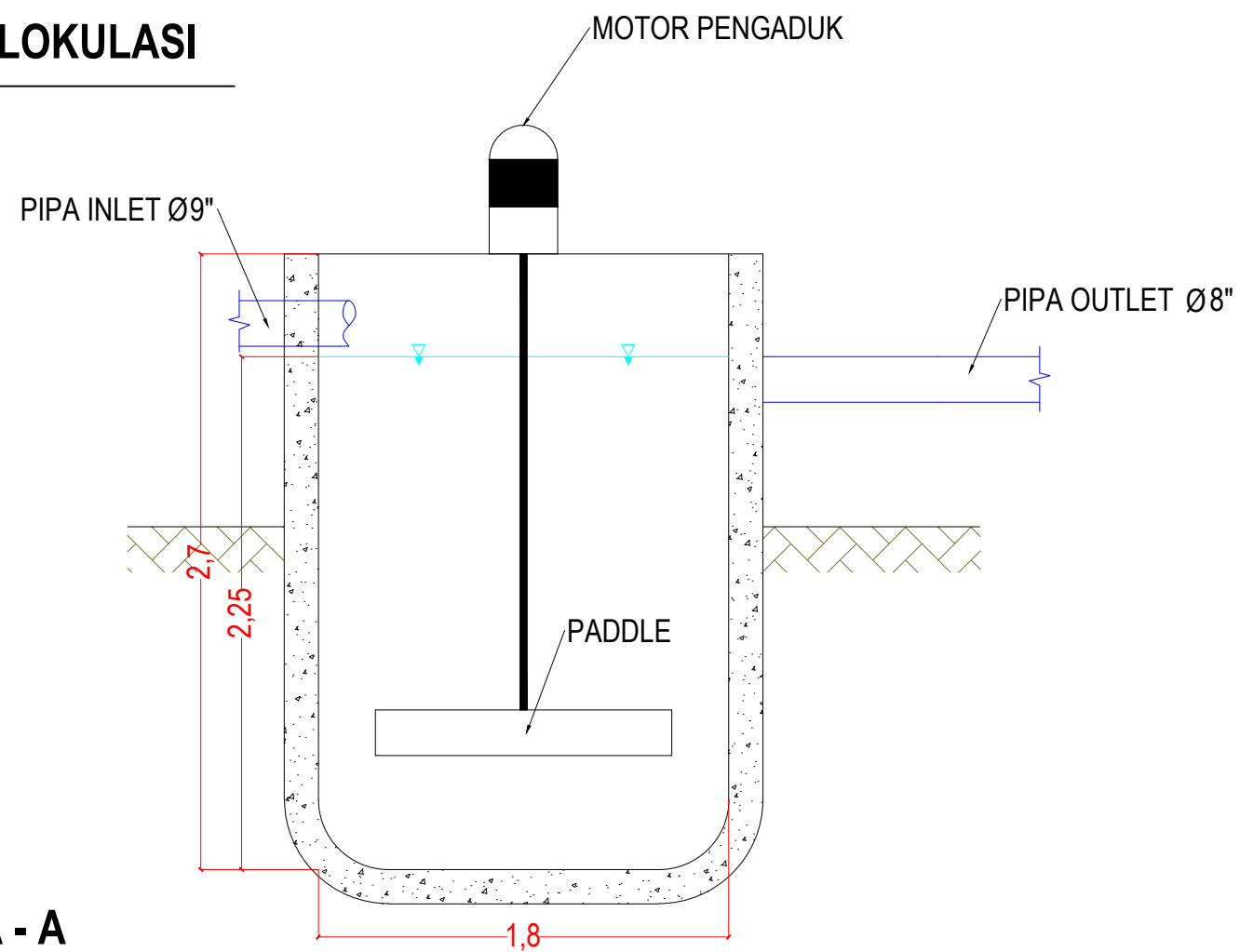
SKALA

1:30

LEGENDA



 **DENAH BAK FLOKULASI**
1:25



 **POTONGAN A - A**
1:30



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TUGAS

PERANCANGAN BANGUNAN
PENGOLAHAN AIR BUANGAN
(PBPAB)

DOSEN PENGAMPUN

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DOSEN PEMBIMBING

RIZKA NOVEMBRIANTO, ST., MT.

MAHASISWA

NPM

SITI NURISTA FITRIANI
SHALZAFATIHAH SALAMAH

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SKALA

DENAH BAK FLOKULASI
POTONGAN A - A

1:25
1:30

LEGENDA



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TUGAS

PERANCANGAN BANGUNAN
PENGOLAHAN AIR BUANGAN
(PBPAB)

DOSEN PENGAMPUN

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MAHASISWA

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SHALZAFATIHAH SALAMAH

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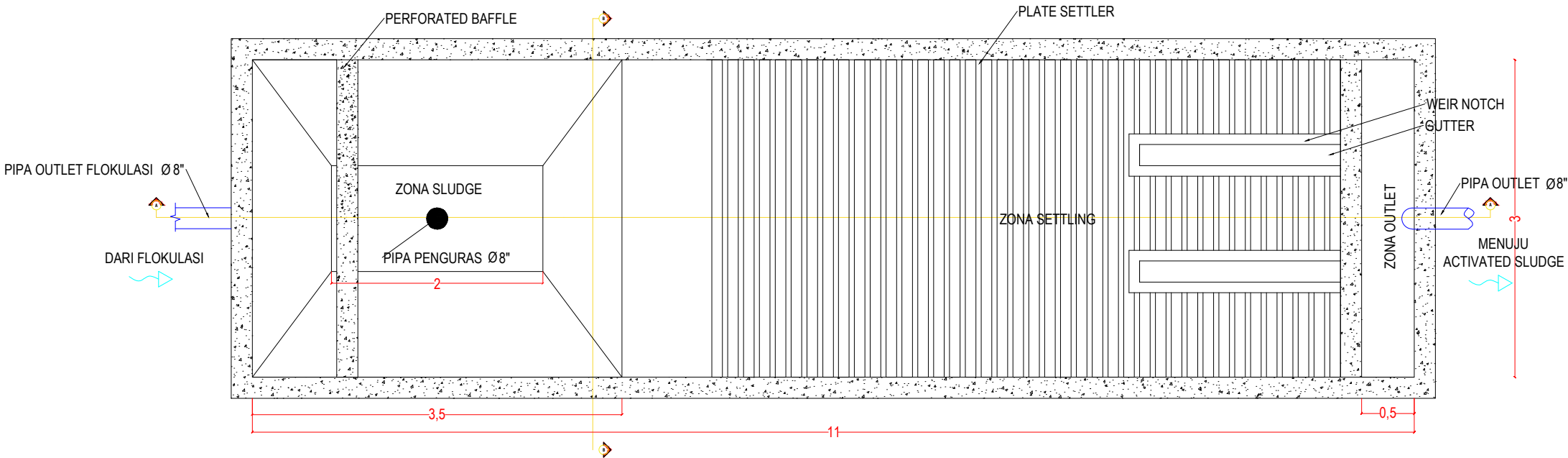
GAMBAR

SKALA

DENAH SEDIMENTASI

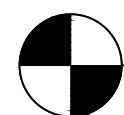
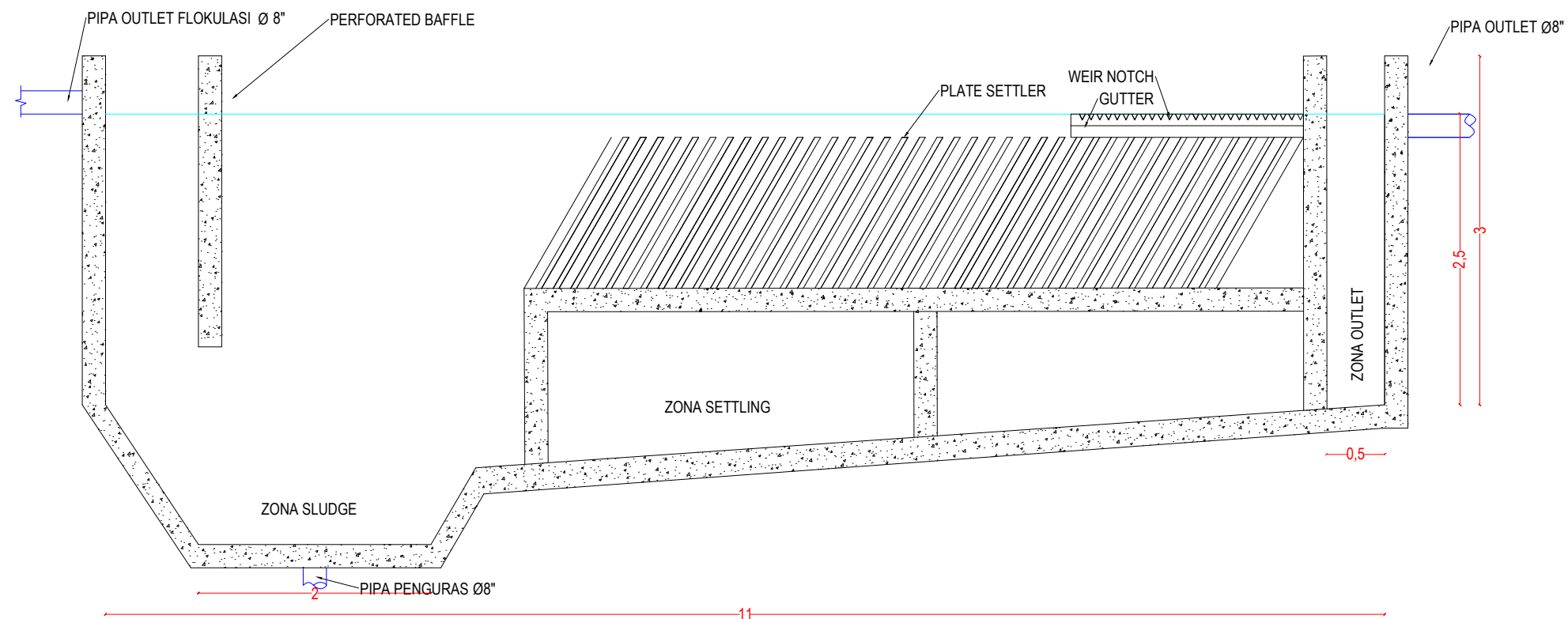
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LEGENDA



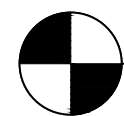
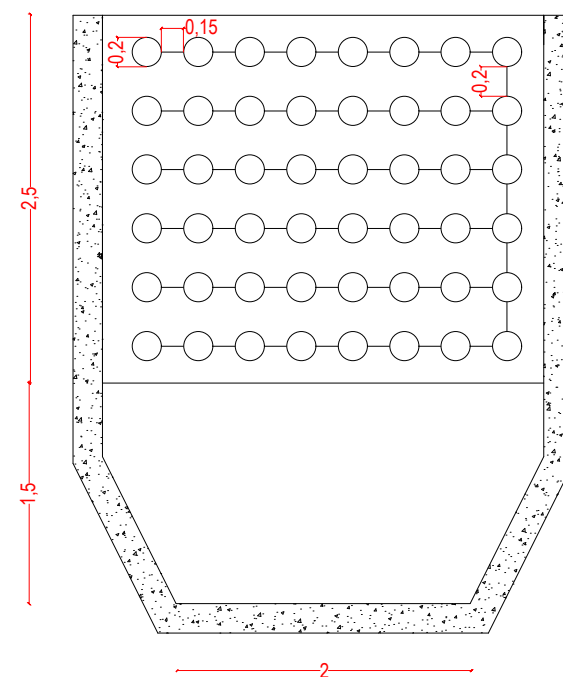
DENAH SEDIMENTASI

1:50



POTONGAN A - A SEDIMENTASI

1:50



POTONGAN B-B SEDIMENTASI

1:50



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TUGAS

PERANCANGAN BANGUNAN
PENGOLAHAN AIR BUANGAN
(BPAB)

DOSEN PENGAMPUN

FIRRA ROSARIAWARI, ST., MT.

DOSEN PEMBIMBING

RIZKA NOVEMBRIANTO, ST., MT.

MAHASISWA

SITI NURISTA FITRIANI
SHALZAFATIAH SALAMAH

NPM

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POTONGAN A - A
POTONGAN B - B
SEDIMENTASI

SKALA

1:50

LEGENDA



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TUGAS

PERANCANGAN BANGUNAN
PENGOLAHAN AIR BUANGAN
(PBPAB)

DOSEN PENGAMPUN

FIRRA ROSARIAWARI, ST., MT.

DOSEN PEMBIMBING

RIZKA NOVEMBRIANTO, ST., MT.

MAHASISWA

NPM

SITI NURISTA FITRIANI
SHALZAFATIAH SALAMAH

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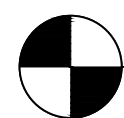
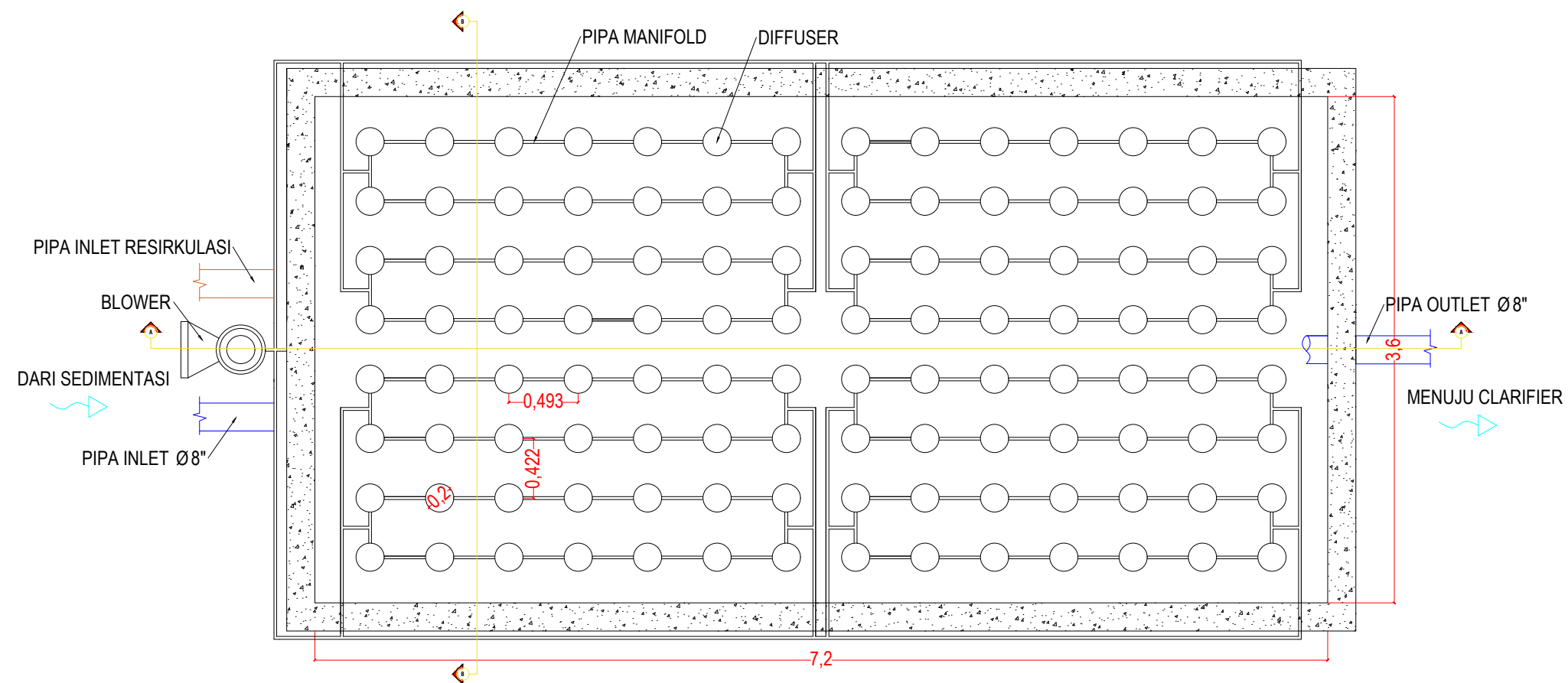
GAMBAR

SKALA

DENAH
ACTIVATED SLIDGE

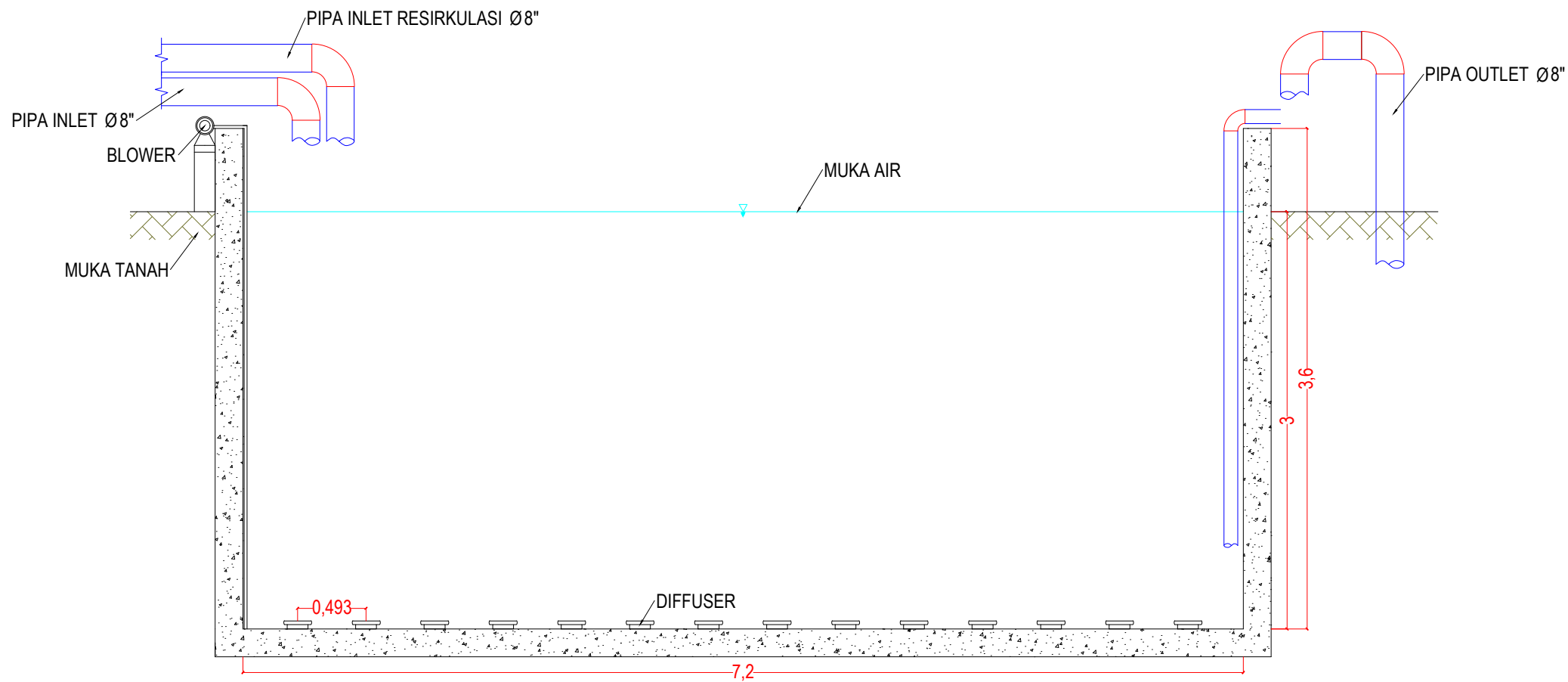
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LEGENDA

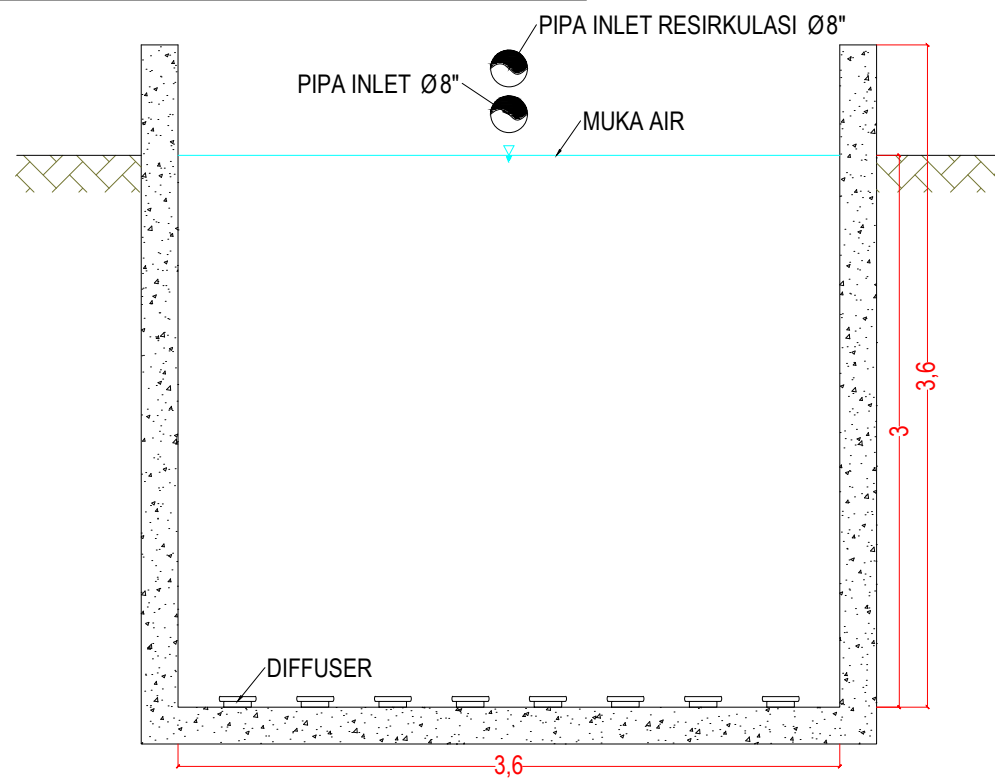


DENAH ACTIVATED SLUDGE

1:40



POTONGAN A - A ACTIVATED SLUDGE
1:40



POTONGAN B - B ACTIVATED SLUDGE
1:40



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"VETERAN" JAWA TIMUR
FAKULTAS TEKNIK
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TUGAS

PERANCANGAN BANGUNAN
PENGOLAHAN AIR BUANGAN
(PBPAB)

DOSEN PENGAMPUN

FIRRA ROSARIAWARI, ST., MT.

DOSEN PEMBIMBING

RIZKA NOVEMBRIANTO, ST., MT.

MAHASISWA

SITI NURISTA FITRIANI
SHALZAFATIHAH SALAMAH

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POTONGAN A - A
POTONGAN B - B
ACTIVATED SLUDGE

SKALA

1:40

LEGENDA



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"VETERAN" JAWA TIMUR
FAKULTAS TEKNIK
PROGRAM STUDI TEKNIK LINGKUNGAN

TUGAS

PERANCANGAN BANGUNAN
PENGOLAHAN AIR BUANGAN
(PBPAB)

DOSEN PENGAMPUN

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DOSEN PEMBIMBING

RIZKA NOVEMBRIANTO, ST., MT.

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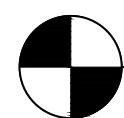
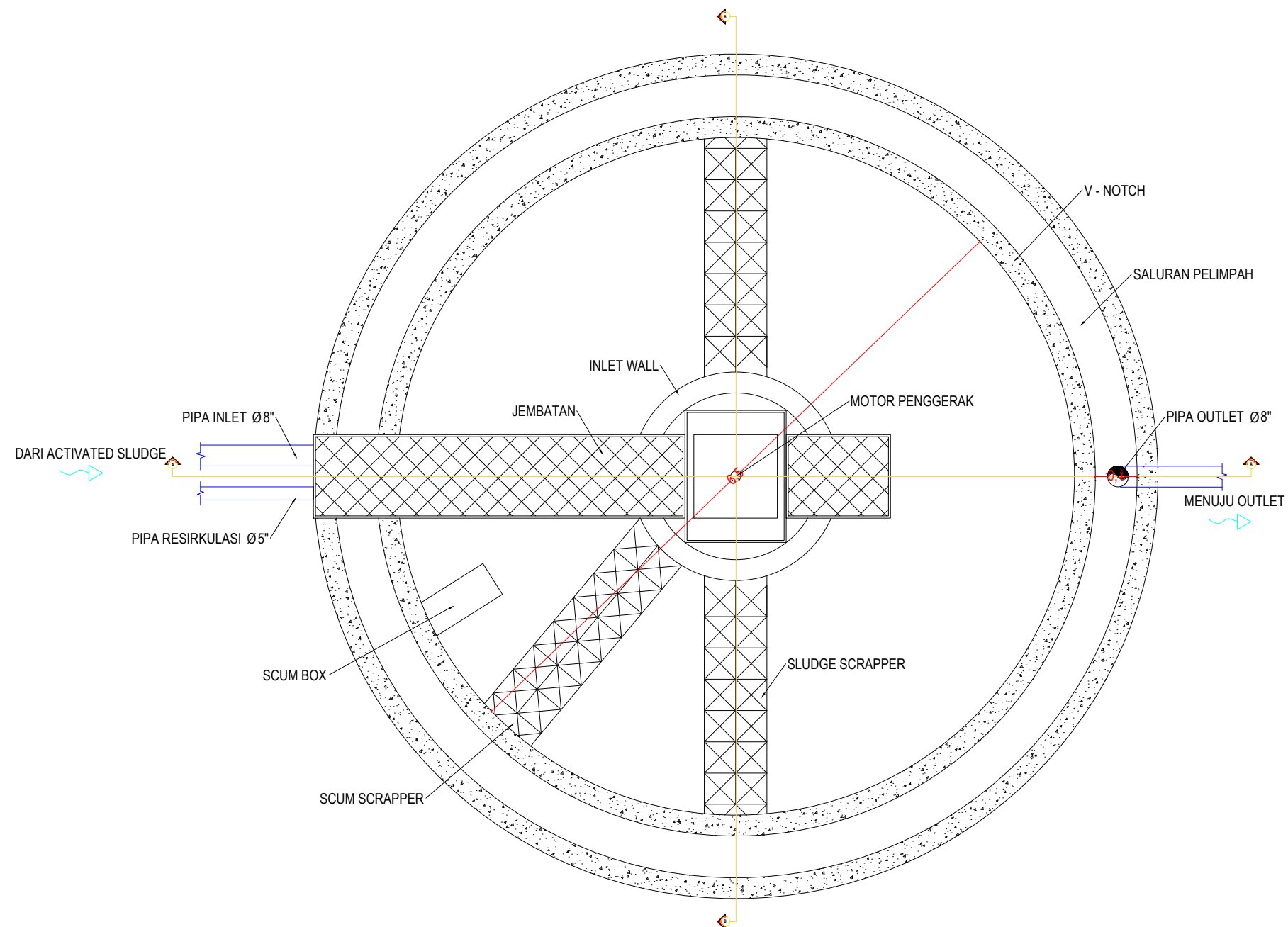
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DENAH CLARIFIER

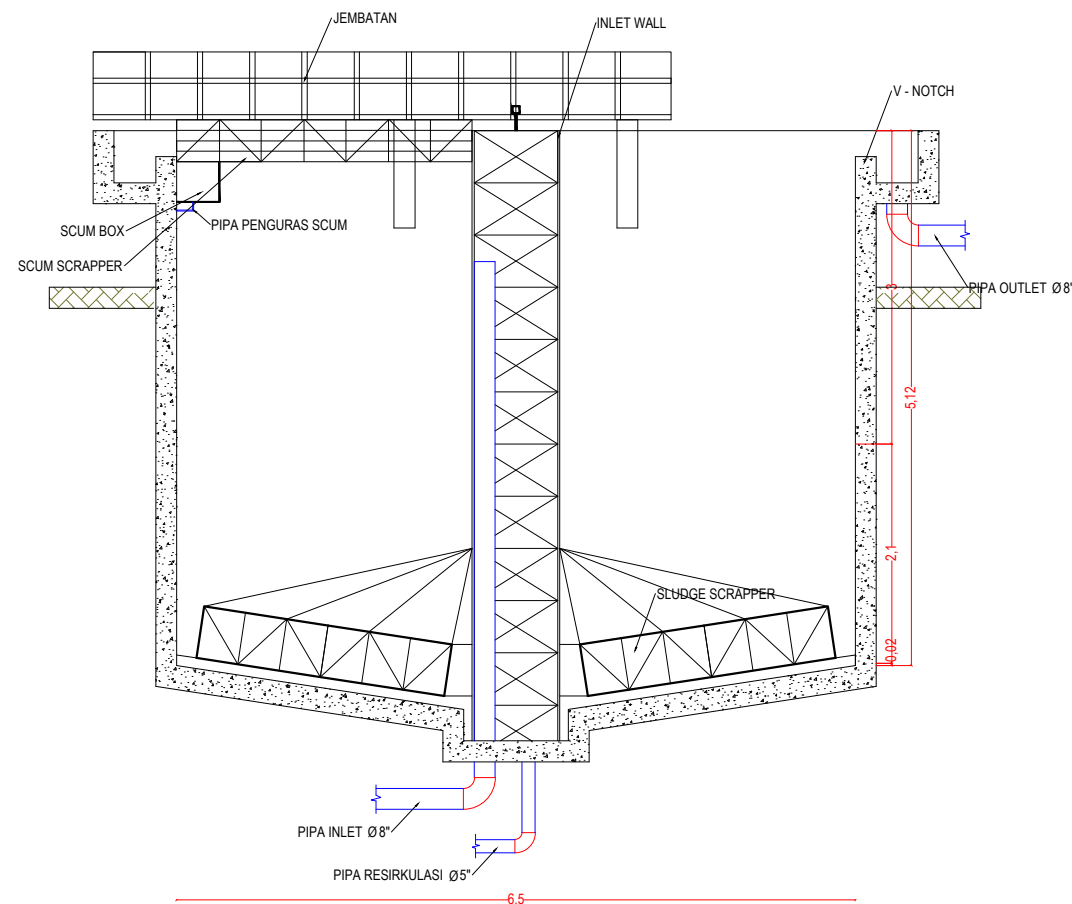
SKALA

1:50

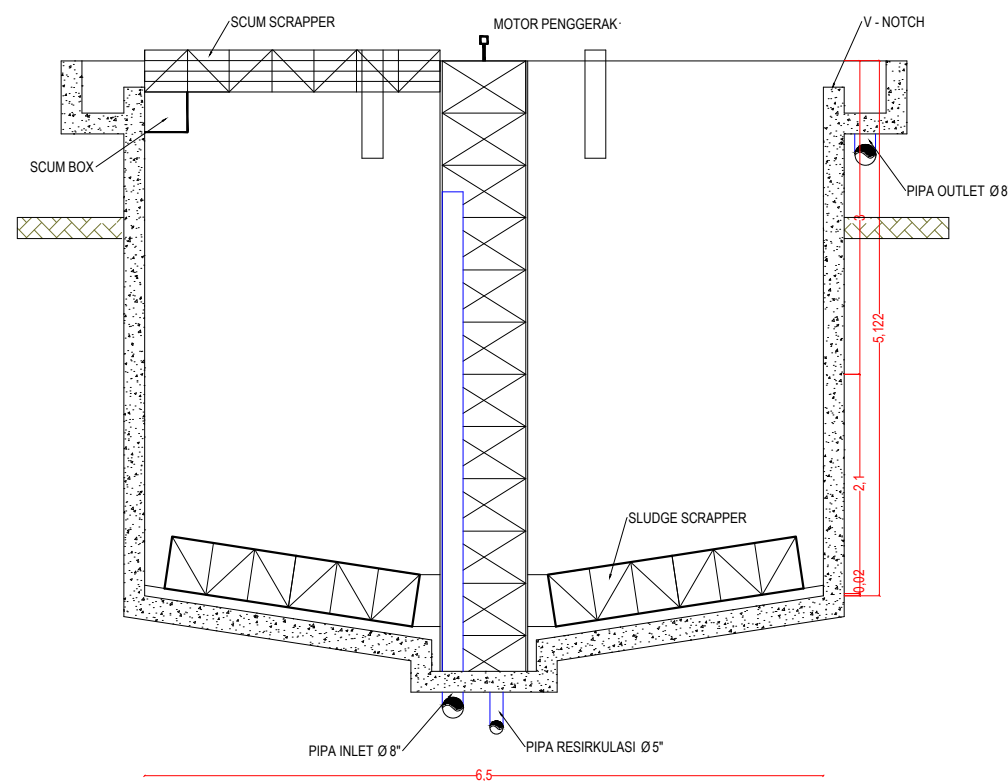
LEGENDA



DENAH CLARIFIER
1:50



POTONGAN A - A CLARIFIER
1:70



POTONGAN B - B CLARIFIER
1:70



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FAKULTAS TEKNIK
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TUGAS

PERANCANGAN BANGUNAN
PENGOLAHAN AIR BUANGAN
(PBPAB)

DOSEN PENGAMPUN

FIRRA ROSARIAWARI, ST., MT.

DOSEN PEMBIMBING

RIZKA NOVEMBRIANTO, ST., MT.

MAHASISWA

SITI NURISTA FITRIANI
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POTONGAN A - A
POTONGAN B - B
CLARIFIER

SKALA

1:70

LEGENDA



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"VETERAN" JAWA TIMUR
FAKULTAS TEKNIK
PROGRAM STUDI TEKNIK LINGKUNGAN

TUGAS

PERANCANGAN BANGUNAN
PENGOLAHAN AIR BUANGAN
(PBPAB)

DOSEN PENGAMPUN

FIRRA ROSARIAWARI, ST., MT.

DOSEN PEMBIMBING

RIZKA NOVEMBRIANTO, ST., MT.

MAHASISWA

SITI NURISTA FITRIANI
SHALZAFATIHAH SALAMAH

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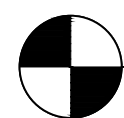
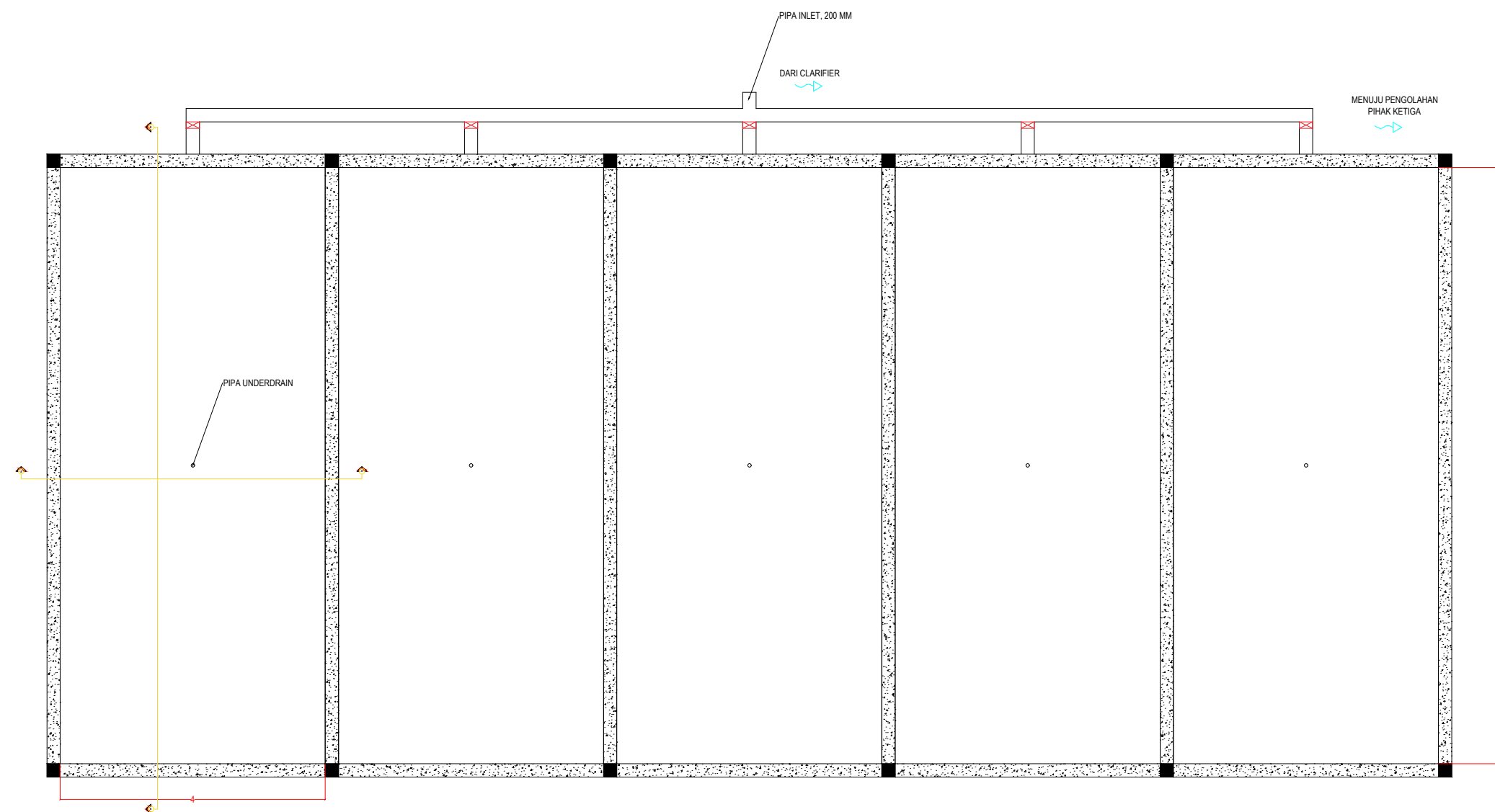
GAMBAR

DENAH
SLUDGE DRYING BED

SKALA

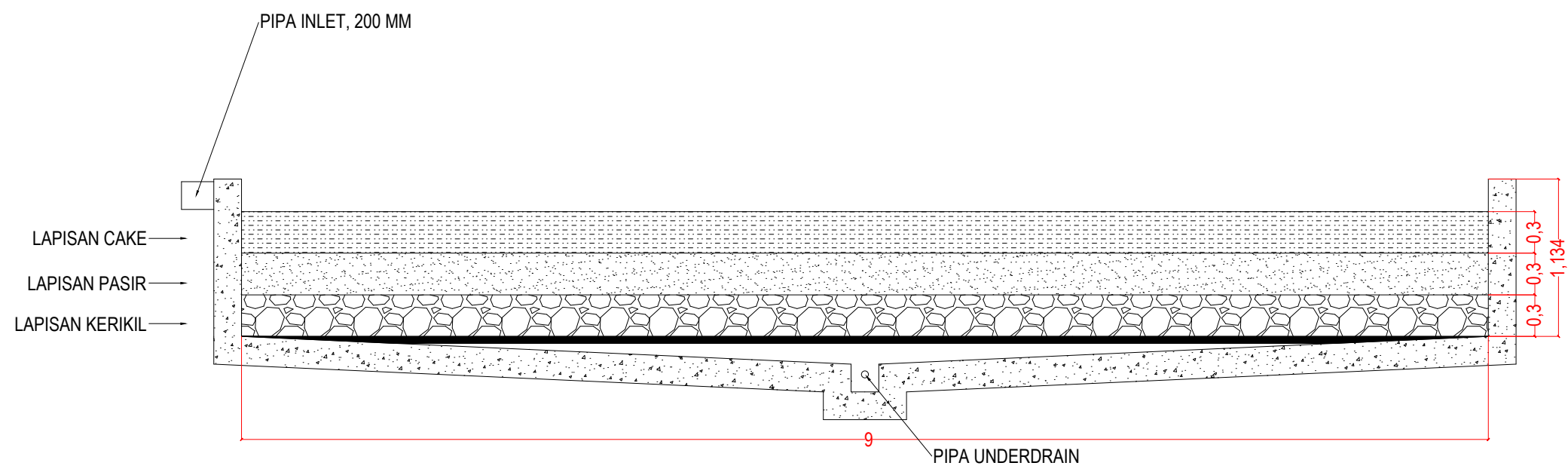
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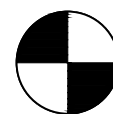
LEGENDA

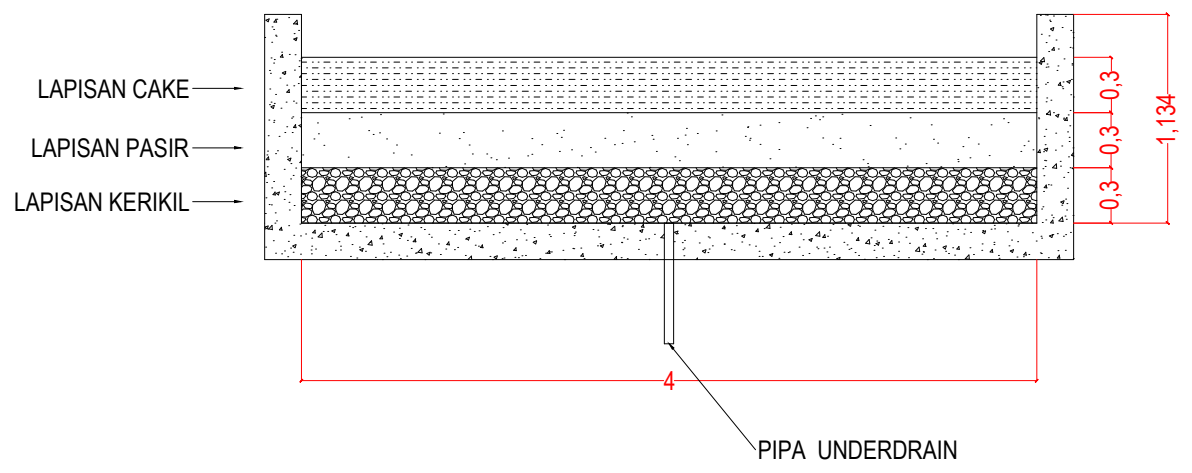


DENAH SLUDGE DRYING BED

1:80



 **POTONGAN A - A SLUDGE DRYING BED**
1:35

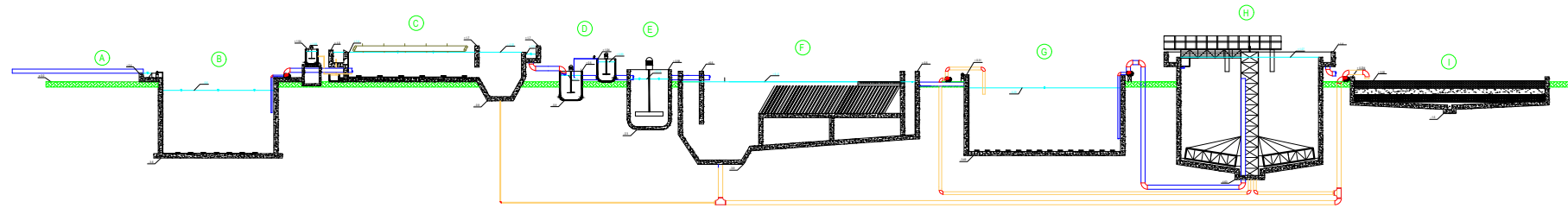


 **POTONGAN B - B SLUDGE DRYING BED**
1:35



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FAKULTAS TEKNIK
PROGRAM STUDI TEKNIK LINGKUNGAN

TUGAS	
PERANCANGAN BANGUNAN PENGOLAHAN AIR BUANGAN (PBPAB)	
DOSEN PENGAMPUN	
FIRRA ROSARIAWARI, ST., MT.	
DOSEN PEMBIMBING	
RIZKA NOVEMBRIANTO, ST., MT.	
MAHASISWA	NPM
SITI NURISTA FITRIANI SHALZAFATIAH SALAMAH	19034010001 19034010028
GAMBAR	SKALA
POTONGAN A - A POTONGAN B - B SLUDGE DRYING BED	1:35
LEGENDA	



- A. SALURAN PEMBAWA, BAK KONTROL DAN BAR SCREEN
- B. BAK EKUALISASI
- C. DAF
- D. KOAGULASI
- E. FLOKULASI
- F. SEDIMENTASI
- G. ACTIVATED SLUDGE
- H. CLARIFIER
- I. SLUDGE DRYING BED



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TUGAS

PERANCANGAN BANGUNAN
PENGOLAHAN AIR BUANGAN
(PBPAB)

DOSEN PENGAMPUN

FIRRA ROSARIAWARI, ST., MT.

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MAHASISWA

NPM

SITI NURISTA FITRIANI
SHALZAFATIHAH SALAMAH

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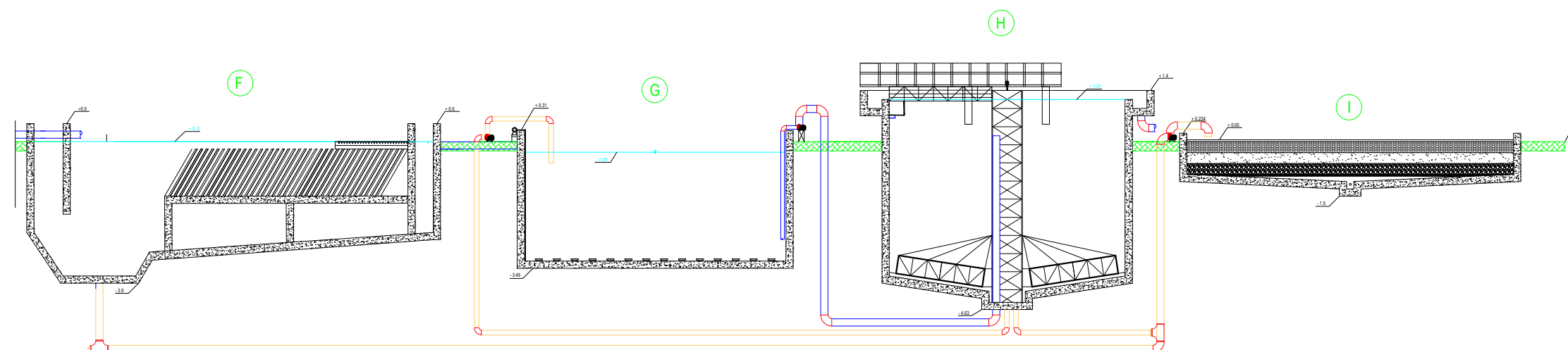
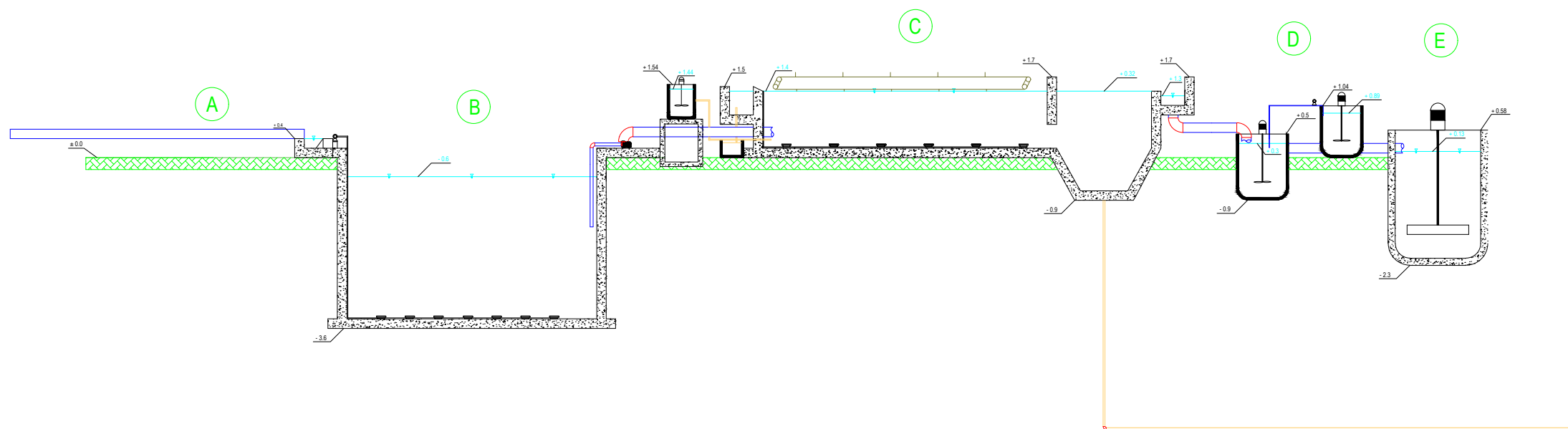
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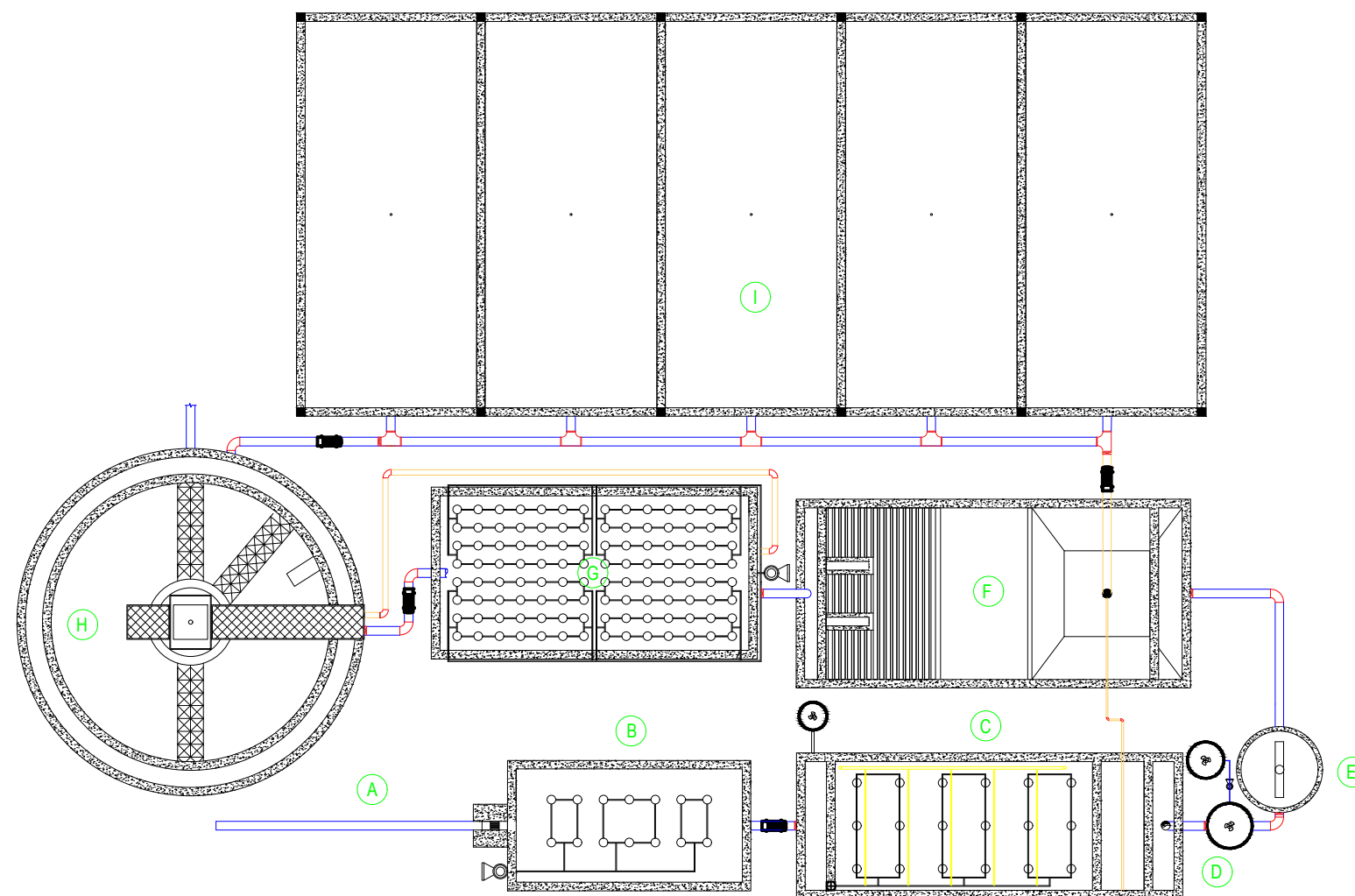
SKALA

PROFIL HIDROLIS

1:300

LEGENDA





- A. SALURAN PEMBAWA, BAK KONTROL dan BAR SCREEN
- B. BAK EKUALISASI
- C. DAF
- D. KOAGULASI
- E. FLOKULASI
- F. SEDIMENTASI
- G. ACTIVATED SLUDGE
- H. CLARIFIER
- I. SLUDGE DRYING BED



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TUGAS

PERANCANGAN BANGUNAN
PENGOLAHAN AIR BUANGAN
(PBPAB)

DOSEN PENGAMPUN

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MAHASISWA

SITI NURISTA FITRIANI
SHALZAFATIAH SALAMAH

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GAMBAR

SKALA

LAYOUT

1:150

LEGENDA