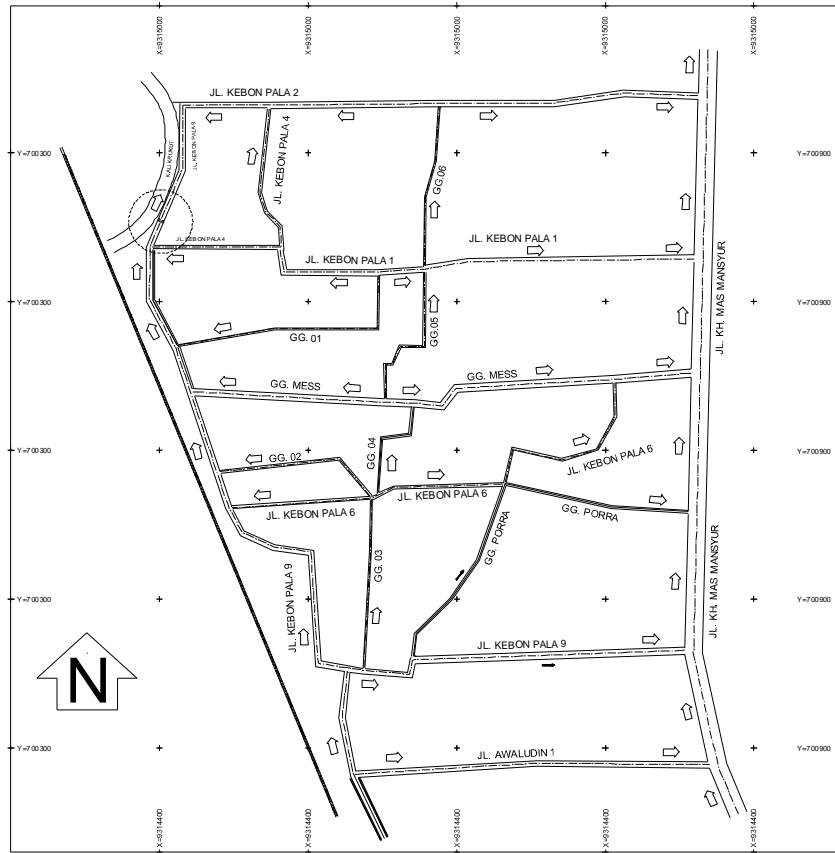


5.2.2.Detail Survey in Model Area  
a. Maps of Pilot Model District



## b. District Model Tanah Abvang Kec. Tanah Abang



### LIST OF ROAD

NO.	NAME	LENGTH	COORDINATE			
			START		END	
			X	Y	X	Y
1	JL KH MAS MANSYUR	520,00	700789,539	9313514,574	700769,225	9314028,654
2	JL KEBON PALA 1	295,00	700759,806	9314829,131	700481,260	9314835,423
3	JL KEBON PALA 2	350,00	700415,354	9314931,943	700762,464	9314938,241
4	JL KEBON PALA 4	190,00	700473,963	9314929,922	700395,091	9314837,265
5	JL KEBON PALA 6	320,00	700448,776	9314661,646	700706,373	9314745,540
6	JL KEBON PALA 9	685,00	700753,379	9314565,320	700415,354	9314931,943
7	JL AWALUDIN	315,00	700770,118	9314488,986	700526,405	9314551,687
8	GG. MESS	350,00	700757,933	9314752,256	700422,614	9314739,575
9	GG. PORRA	265,00	700570,545	9314560,905	700755,650	9314658,533
10	GG. 01	175,00	700547,483	9314817,957	700411,954	9314770,781
11	GG. 02	115,00	700440,626	9314685,417	700542,208	9314668,784
12	GG. 03	115,00	700537,329	9314553,826	700542,400	9314666,976
13	GG. 04	80,00	700546,938	9314671,222	700570,498	9314729,638
14	GG. 05	110,00	700578,443	9314820,238	700552,003	9314734,879
15	GG. 06	115,00	700588,128	9314931,253	700578,173	9314824,229

## MODEL DISTRICT SURVEY TABLE TANAH ABANG (KEC. TANAH ABANG)

No.	Kelurahan	River Basin	Jalan	Structure					Condition		Remark
				Type	W Top / dia (m)	W Bottom (m)	H (m)	L (m)	Clogged	A	
									Failed	B	
									Subsidy	C	
1	TANAH ABANG	KALI KRUKUT	KH. MAS MANSYUR	□	1,00	1,00	1,20	510,00	Failed/Clogged	B/C	0,8
2	TANAH ABANG	KALI KRUKUT	KEBON PALA 1	□	0,65	0,65	1,10	295,00	Subsidy	B/C	0,3
3	TANAH ABANG	KALI KRUKUT	KEBON PALA 2	∩	0,60	0,40	0,75	350,00	Subsidy	B/C	0,1
4	TANAH ABANG	KALI KRUKUT	KEBON PALA 4	∩	0,70	0,60	0,60	190,00	-	C	0,1
5	TANAH ABANG	KALI KRUKUT	KEBON PALA 6	∩	0,60	0,40	0,45	320,00	-	C	0,15
6	TANAH ABANG	KALI KRUKUT	KEBON PALA 9	∩	1,00	0,60	0,70	685,00	Failed	B/C	0,2
7	TANAH ABANG	KALI KRUKUT	AWALUDIN 1	∩	1,00	0,60	0,60	315,00	Subsidy	B/C	0,15
8	TANAH ABANG	KALI KRUKUT	GG. MESS	∩	0,60	0,40	0,60	350,00	Failed	B/C	0,1
9	TANAH ABANG	KALI KRUKUT	GG. PORRA	∩	0,45	0,25	0,45	265,00	Subsidy	B/C	0,1
10	TANAH ABANG	KALI KRUKUT	GG. 01	∩	0,50	0,30	0,45	175,00	-	C	0,1
11	TANAH ABANG	KALI KRUKUT	GG. 02	∩	0,45	0,25	0,45	115,00	-	C	0,15
12	TANAH ABANG	KALI KRUKUT	GG. 03	∩	0,45	0,15	0,75	115,00	-	C	0,1
13	TANAH ABANG	KALI KRUKUT	GG. 04	∩	0,40	0,20	0,45	80,00	-	C	0,1
14	TANAH ABANG	KALI KRUKUT	GG. 05	∩	0,50	0,30	0,45	110,00	Subsidy	B/C	0,15
15	TANAH ABANG	KALI KRUKUT	GG. 06	∩	0,40	0,20	0,45	115,00	-	C	0,15

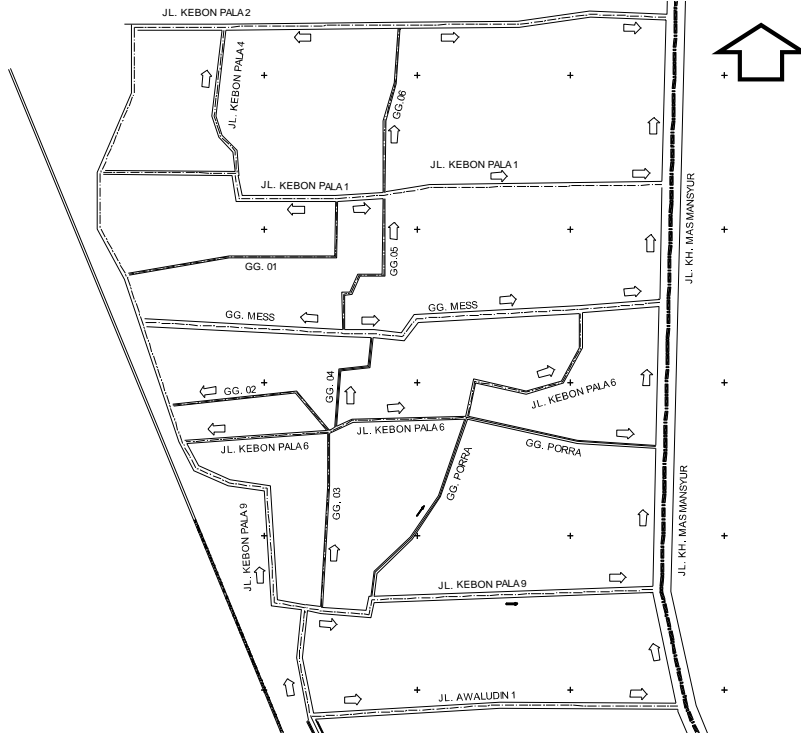


# DISTRICT MODEL TANAH ABANG | KECAMATAN TANAH ABANG

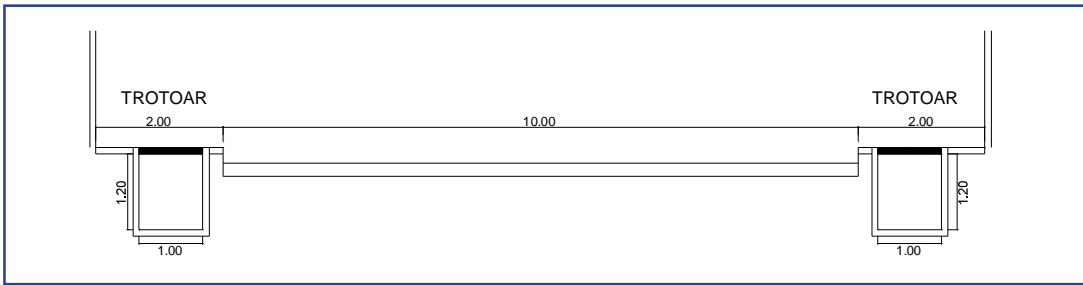


01. DETAIL OF JL. KH. MAS MANSYUR (TANAH ABANG AREA)

LAYOUT



SKETCH

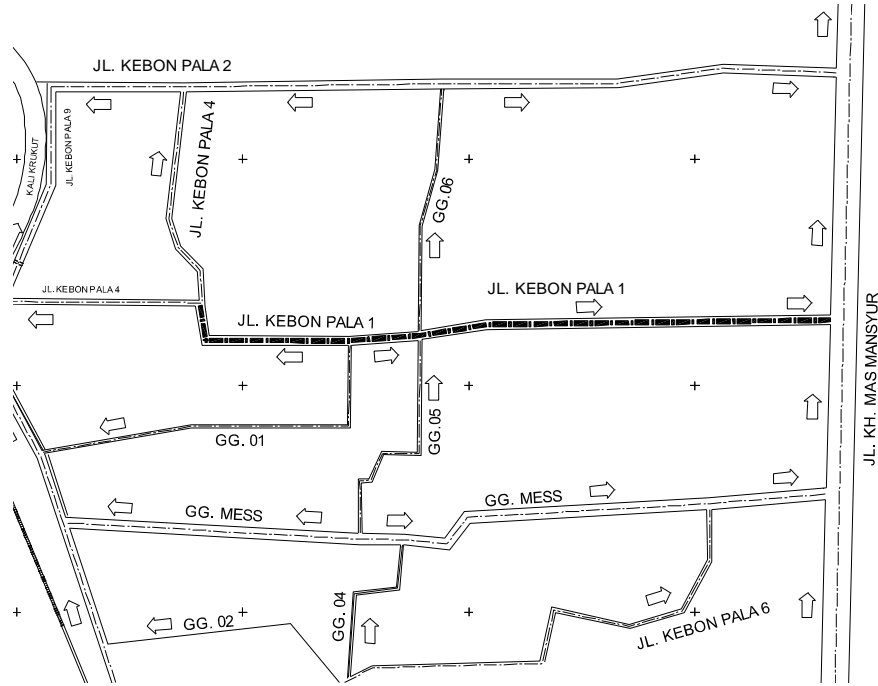


FOTO

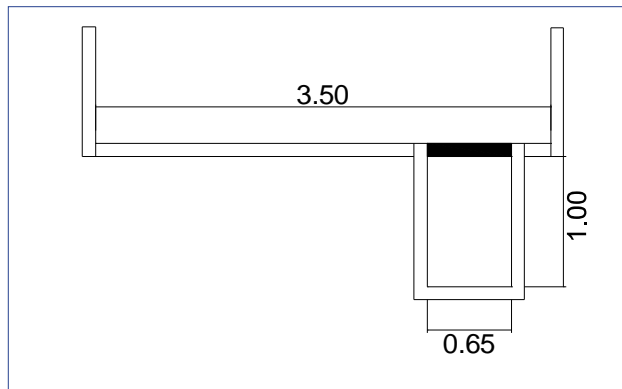


02. DETAIL OF JL. KEBON PALA 1 (TANAH ABANG AREA)

LAYOUT



SKETCH



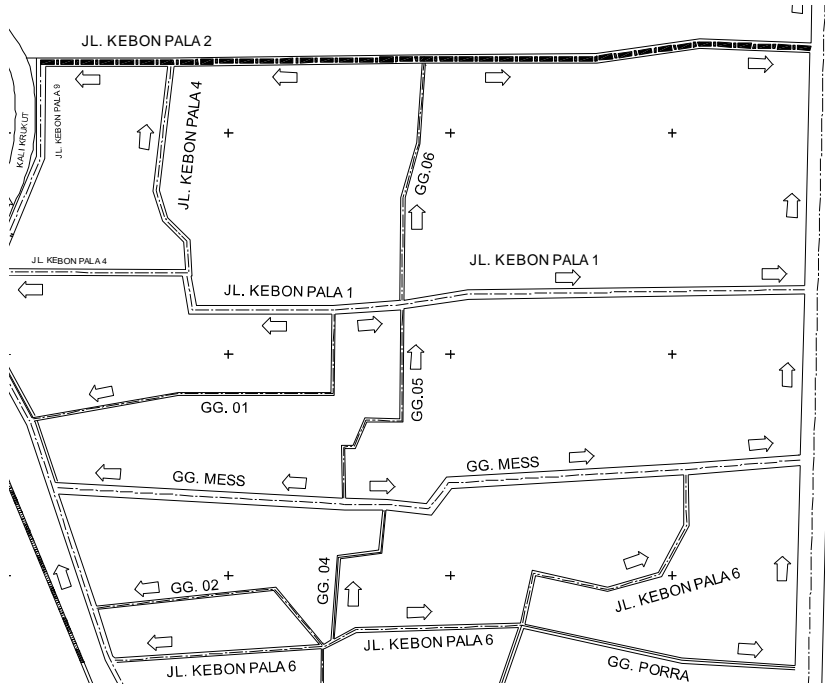
FOTO



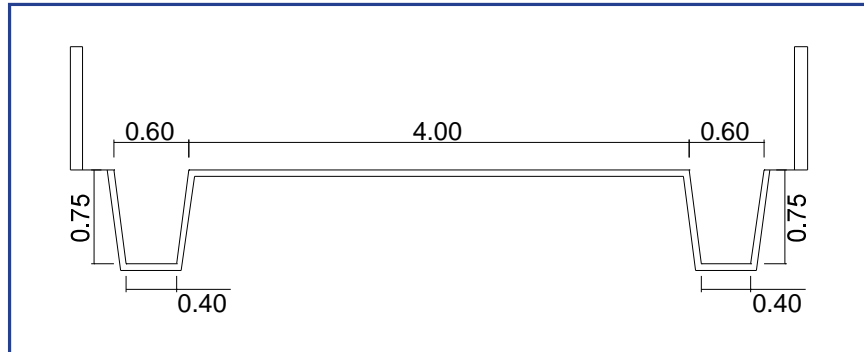
REPORT OF EXISTING DRAINAGE SYSTEM

03. DETAIL OF JL. KEBON PALA 2 (TANAH ABANG AREA)

LAYOUT



SKETCH



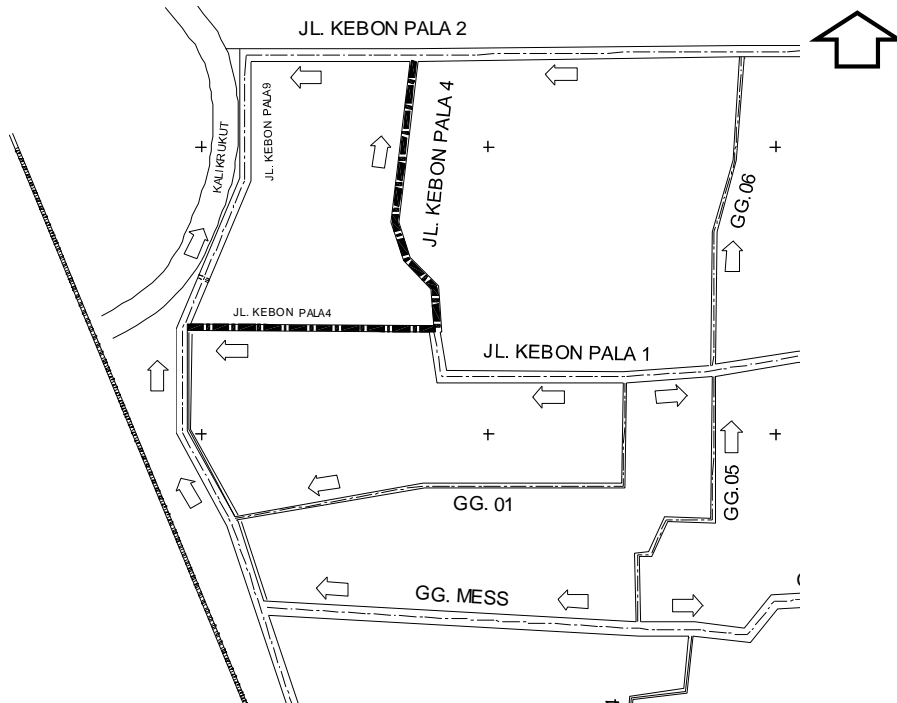
FOTO



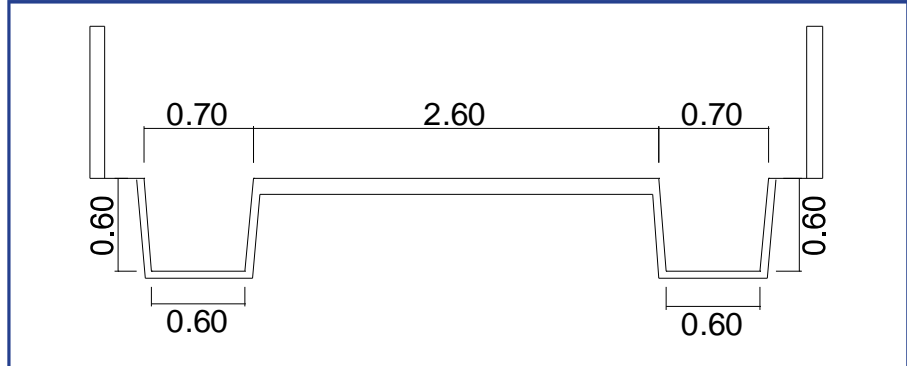


02. DETAIL OF JL. KEBON PALA 1 (TANAH ABANG AREA)

LAYOUT



SKETCH



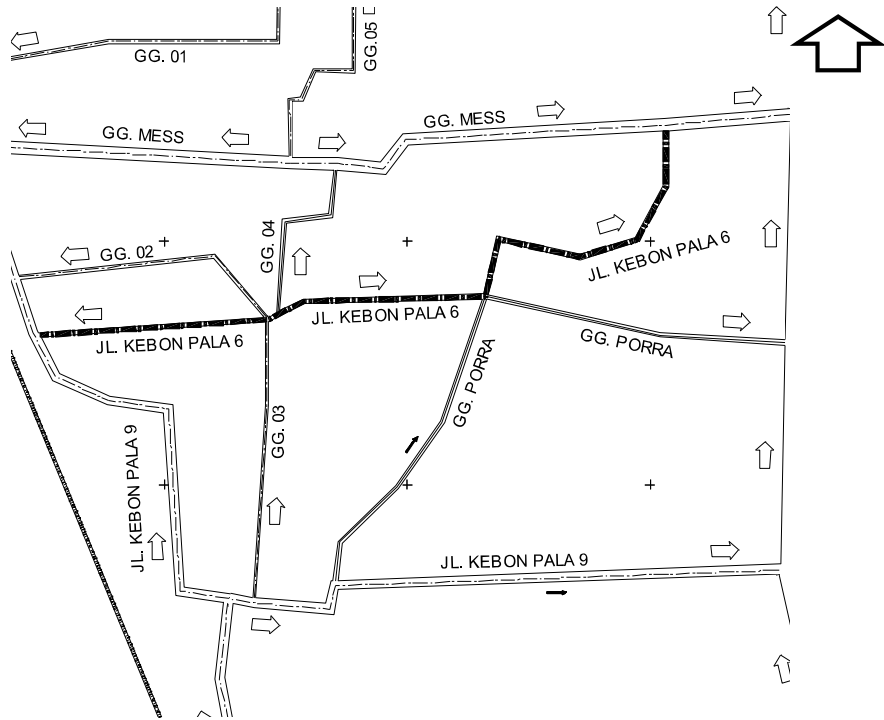
FOTO



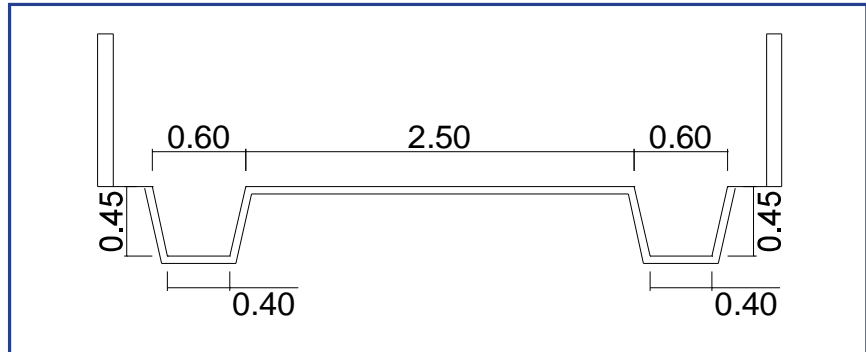
REPORT OF EXISTING DRAINAGE SURVEY

05. DETAIL OF JL. KEBON PALA 6 (TANAH ABANG AREA)

LAYOUT



SKETCH

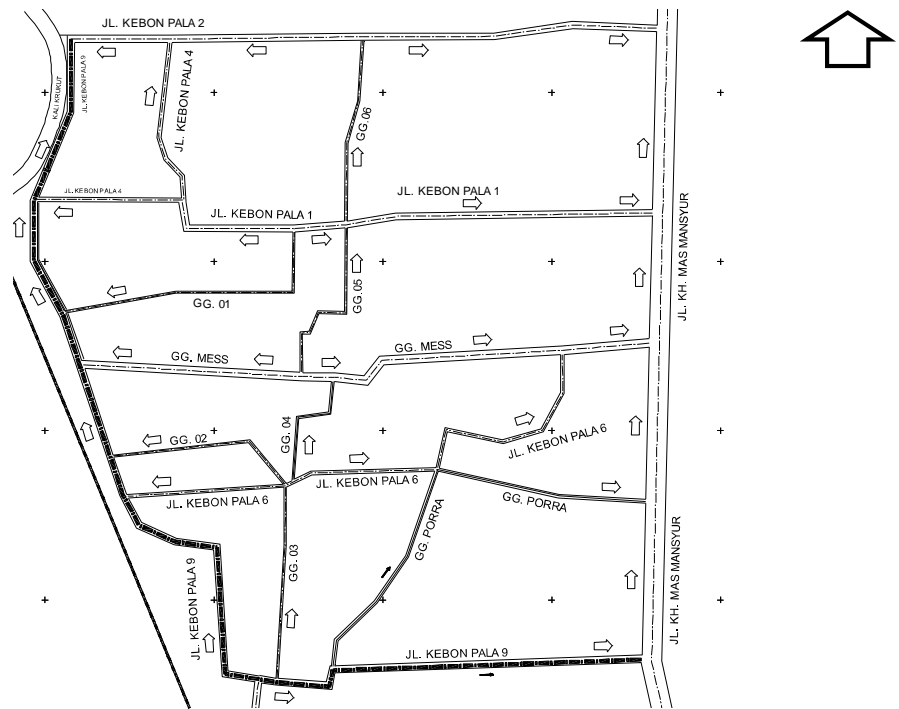


FOTO

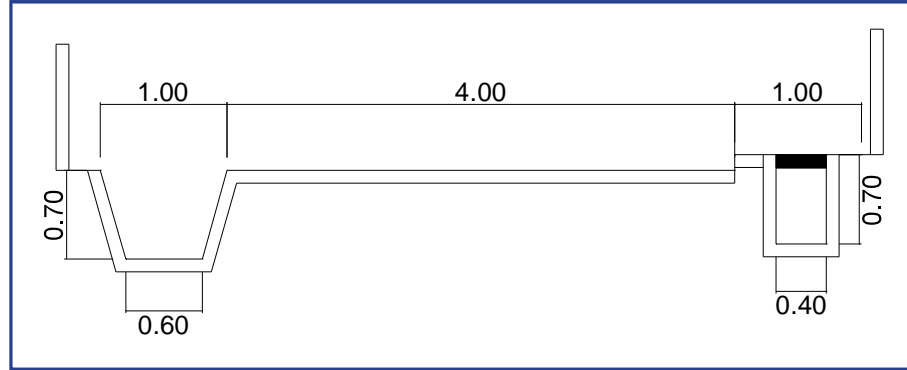


06. DETAIL OF JL. KEBON PALA 9 (TANAH ABANG AREA)

LAYOUT



SKETCH

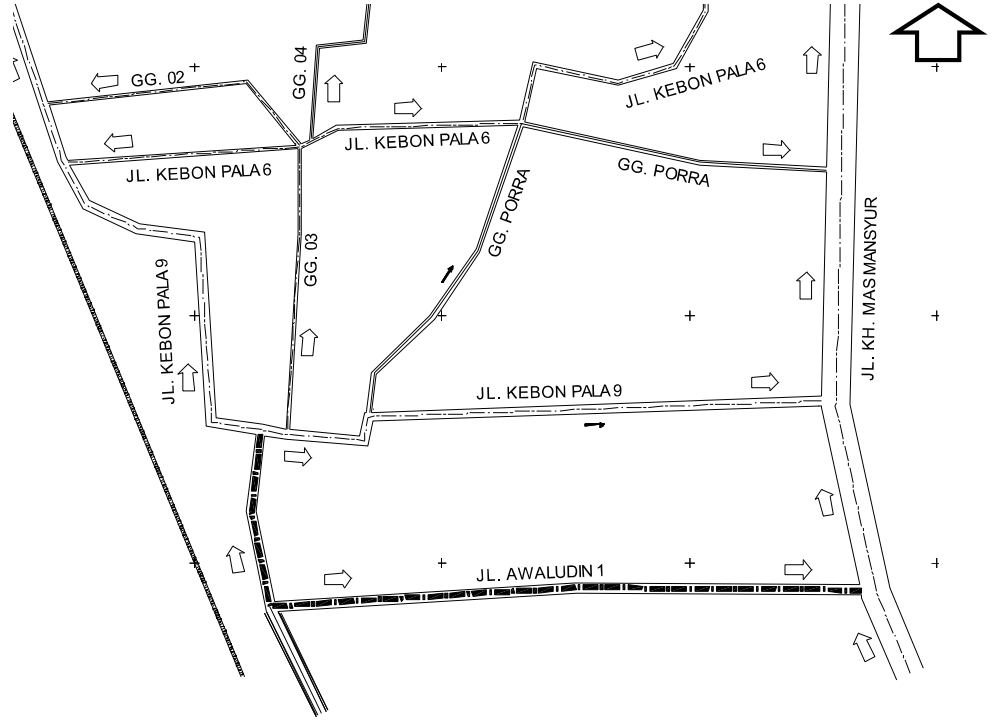


FOTO

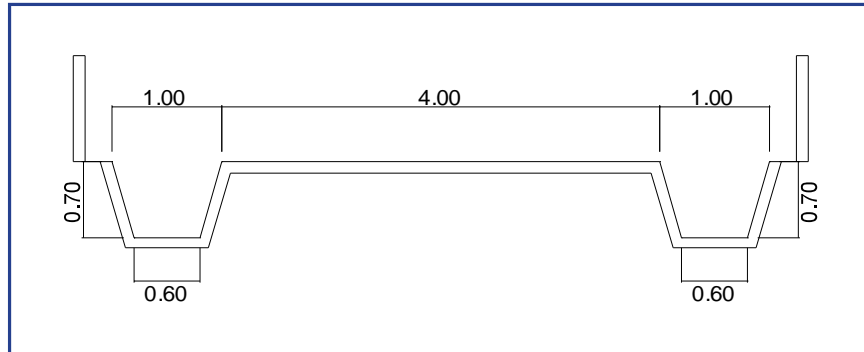


07. DETAIL OF JL. AWALUDIN (TANAH ABANG AREA)

LAYOUT



SKETCH

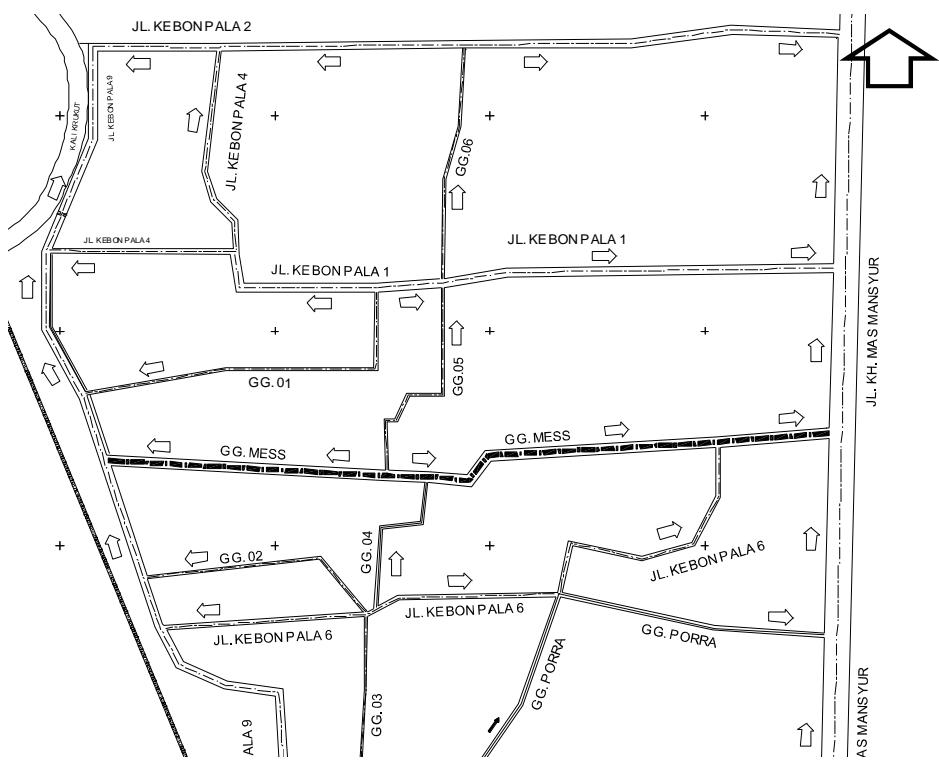


FOTO

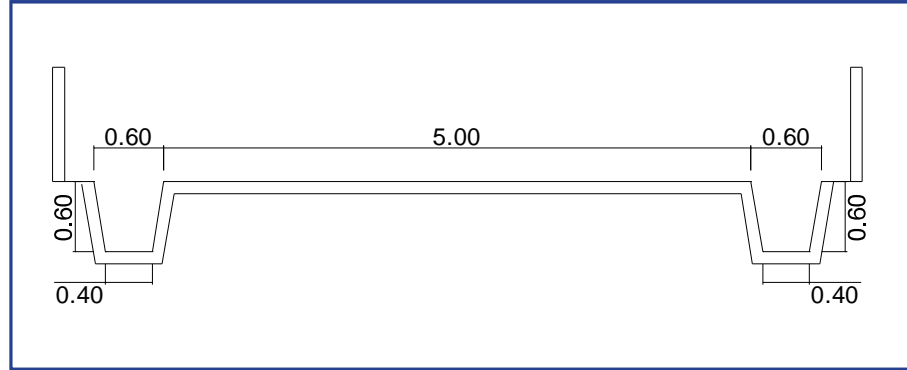


08. DETAIL OF GG. MESS (TANAH ABANG AREA)

LAYOUT



SKETCH

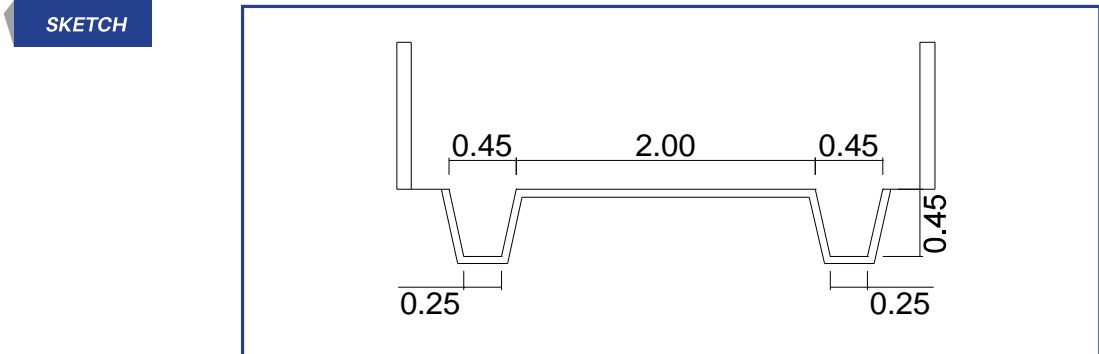
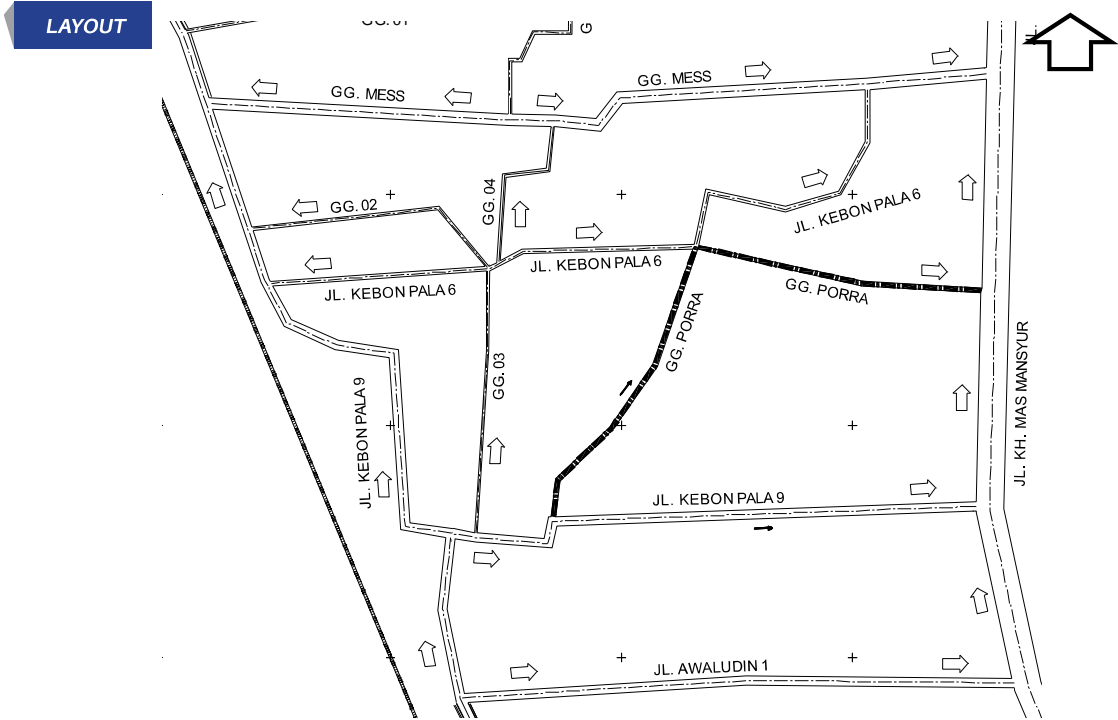


FOTO



REPORT OF EXISTING DRAINAGE SYSTEM

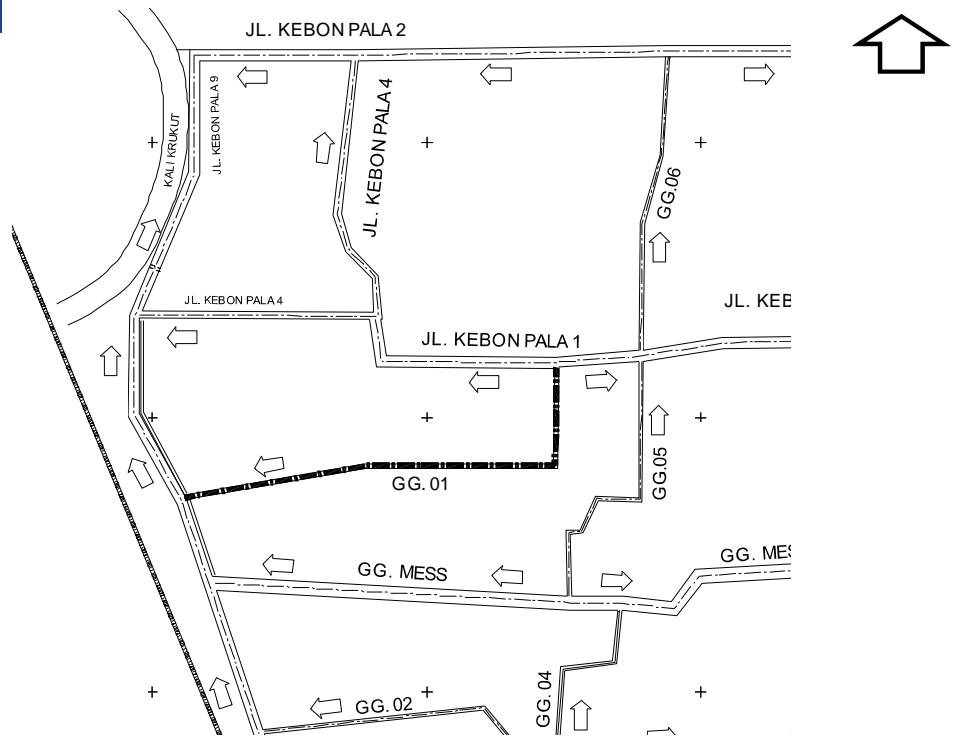
09. DETAIL OF GG. PORRA (TANAH ABANG AREA)



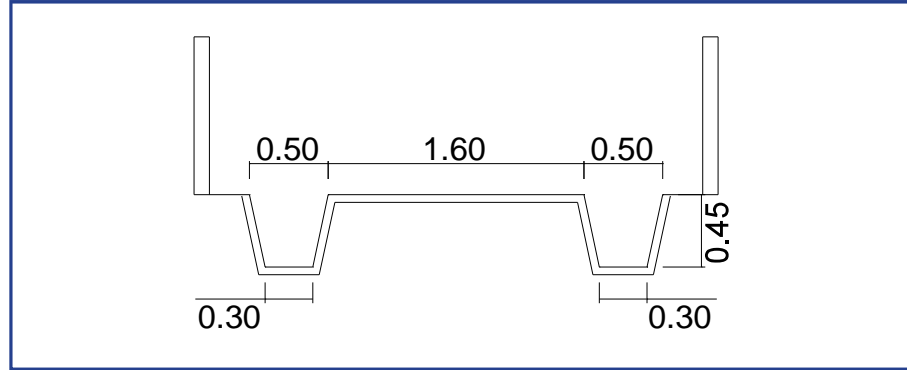


10. DETAIL OF GG. 01 (TANAH ABANG AREA)

LAYOUT



SKETCH



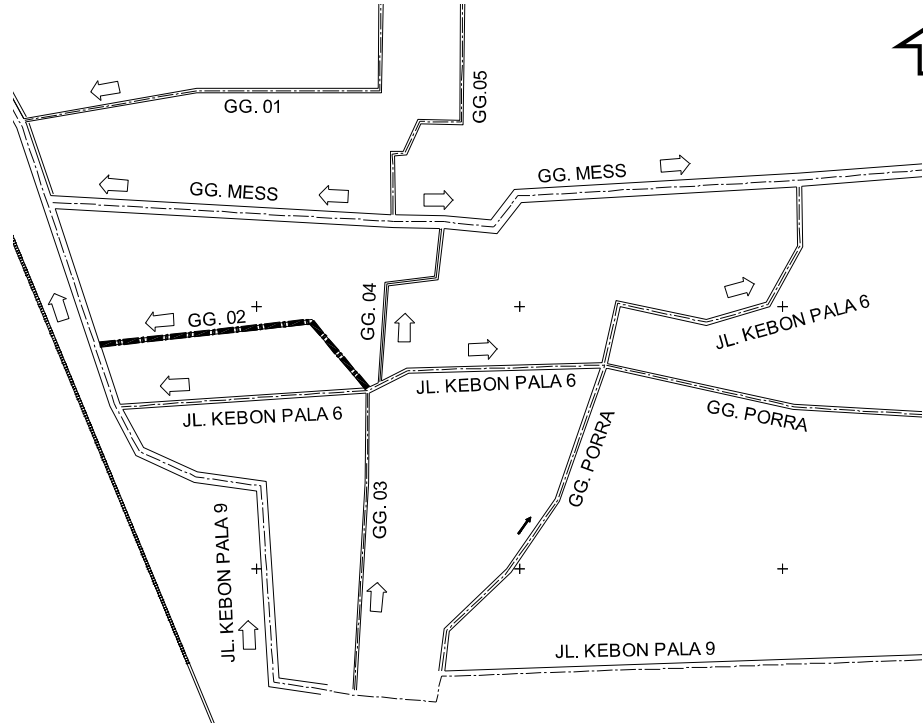
FOTO



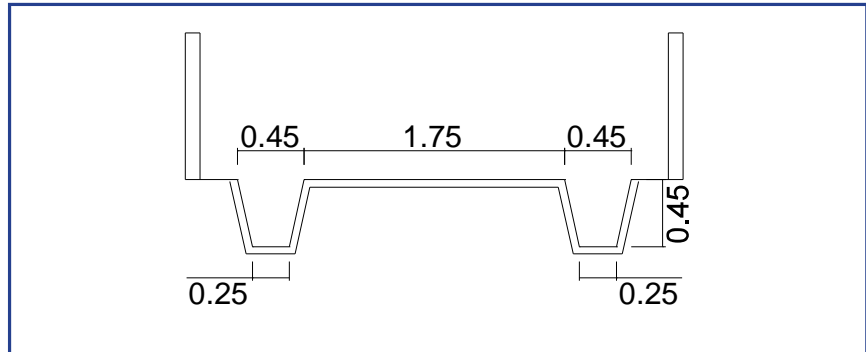
REPORT OF EXISTING DRAINAGE SYSTEM

11. DETAIL OF GG. 02 (TANAH ABANG AREA)

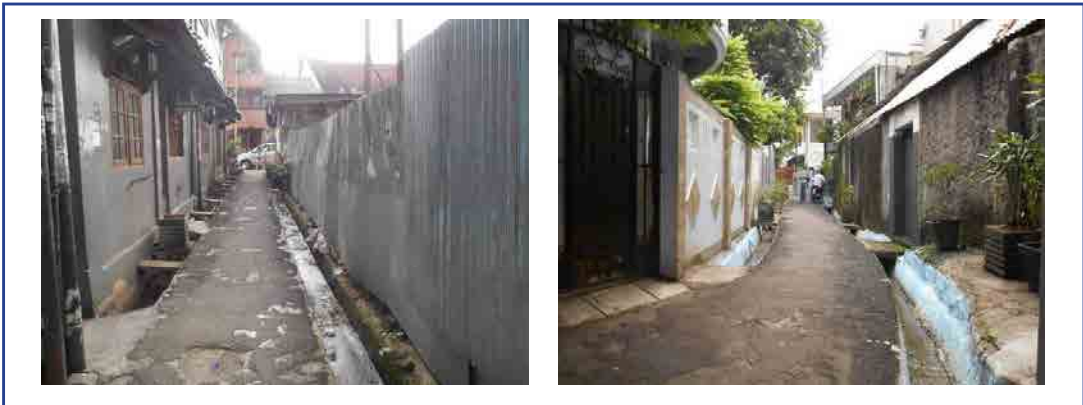
LAYOUT



SKETCH



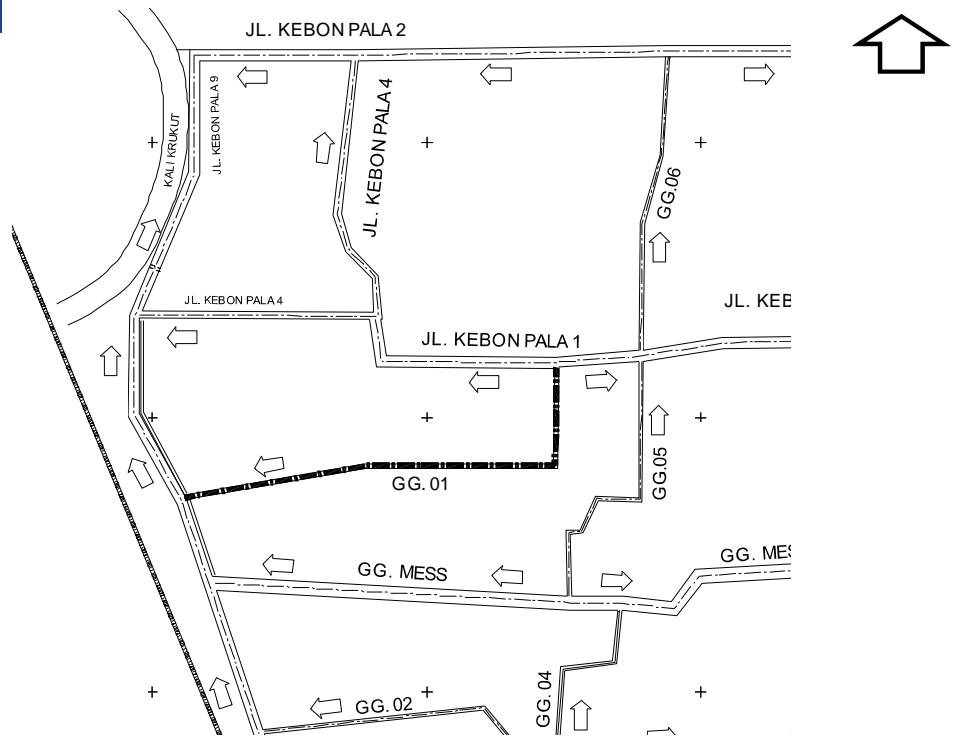
FOTO



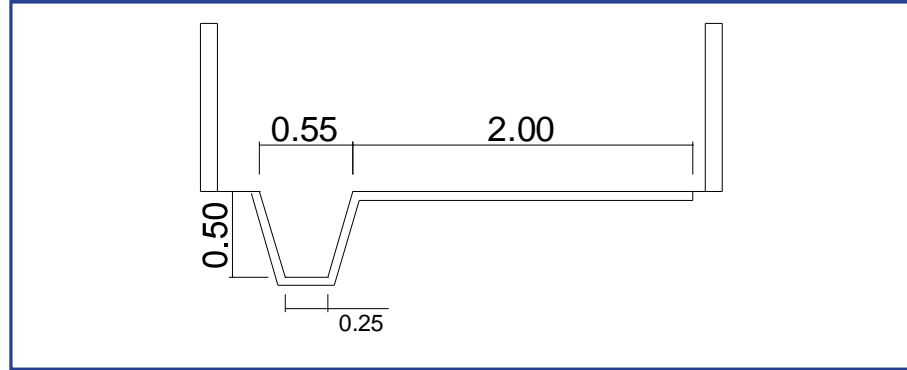


12. DETAIL OF GG. 03 (TANAH ABANG AREA)

LAYOUT



SKETCH

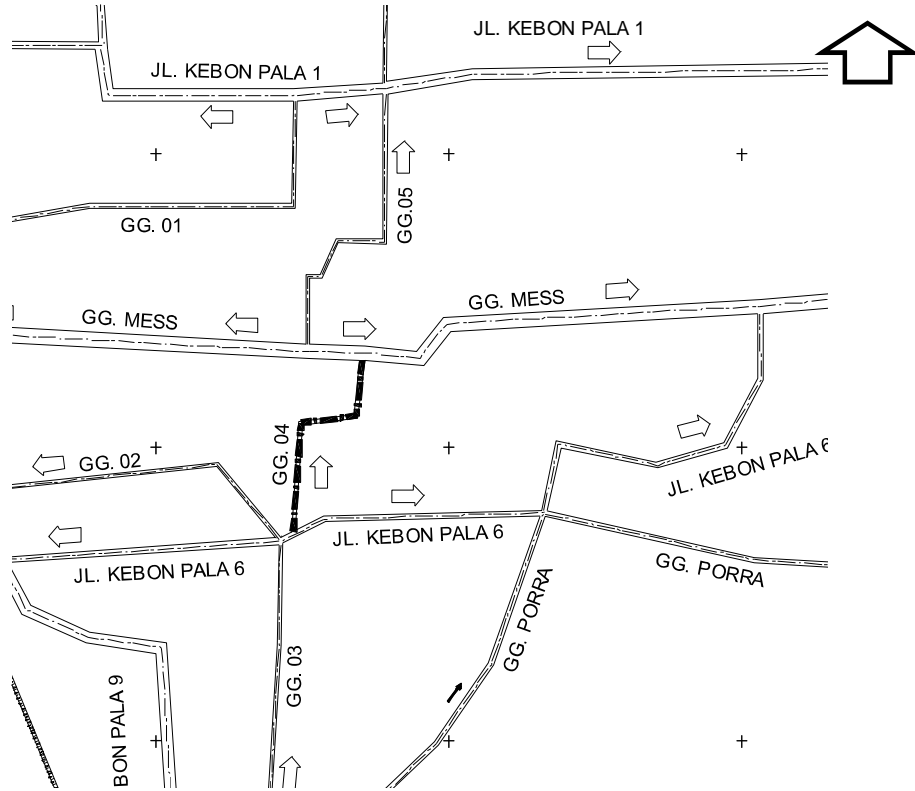


FOTO

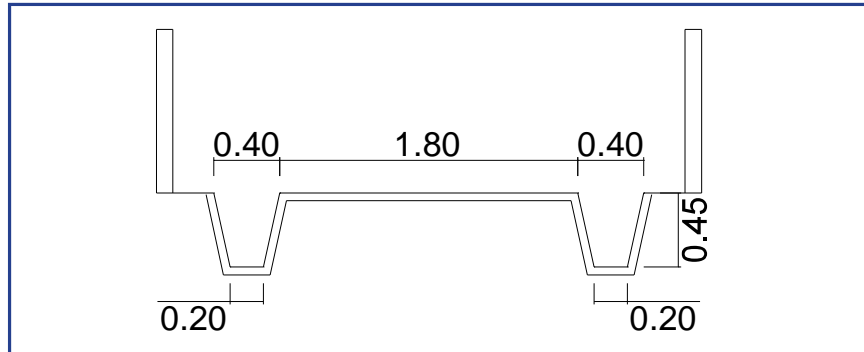


13. DETAIL OF GG. 04 (TANAH ABANG AREA)

LAYOUT



SKETCH

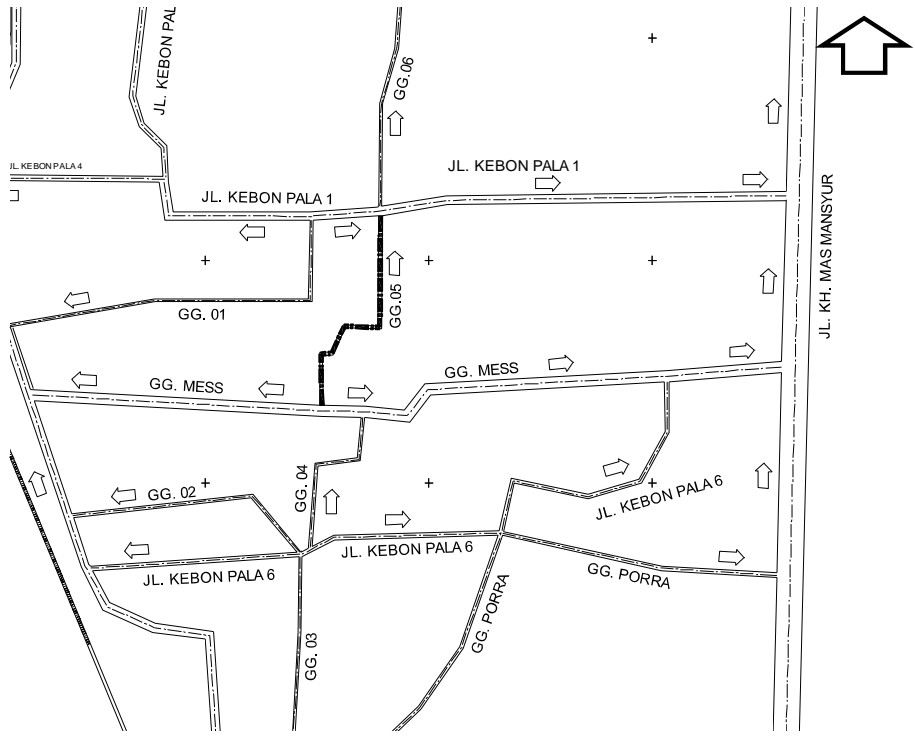


FOTO

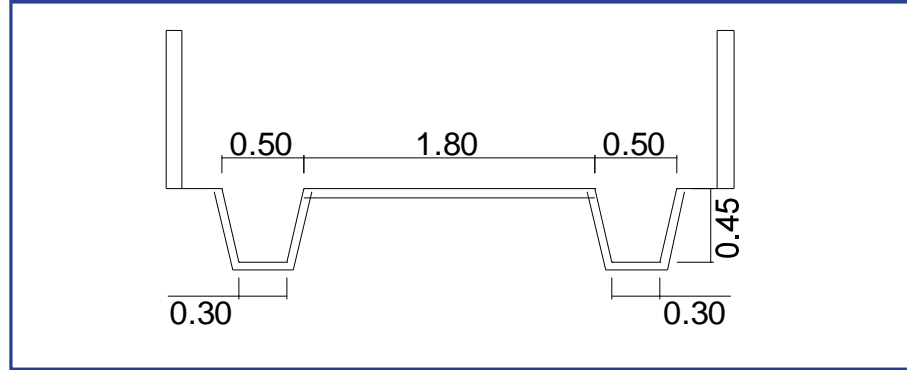


14. DETAIL OF GG. 05 (TANAH ABANG AREA)

LAYOUT



SKETCH

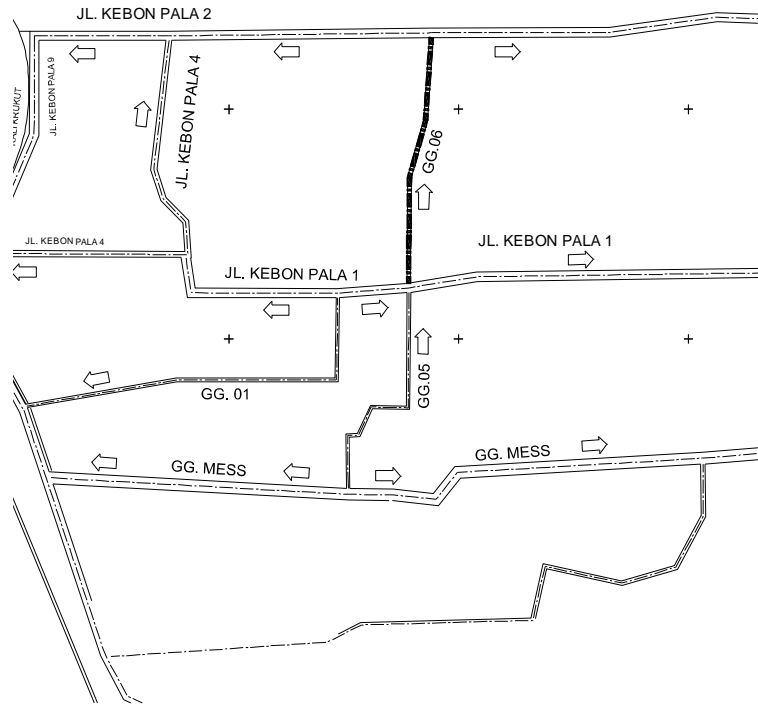


FOTO

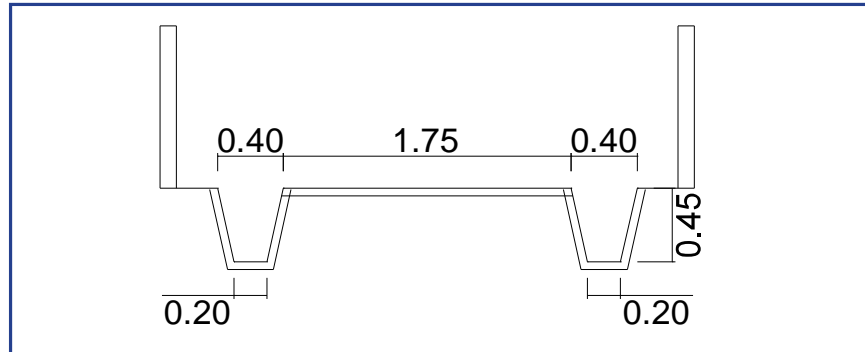


### 15. DETAIL OF GG. 06 (TANAH ABANG AREA)

#### LAYOUT



#### SKETCH

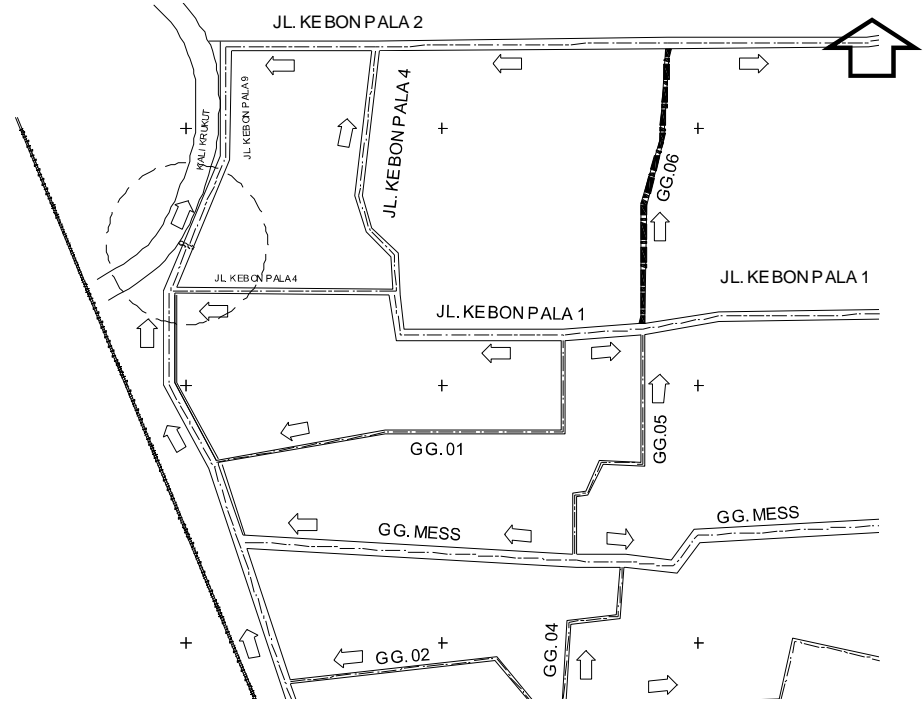


#### FOTO



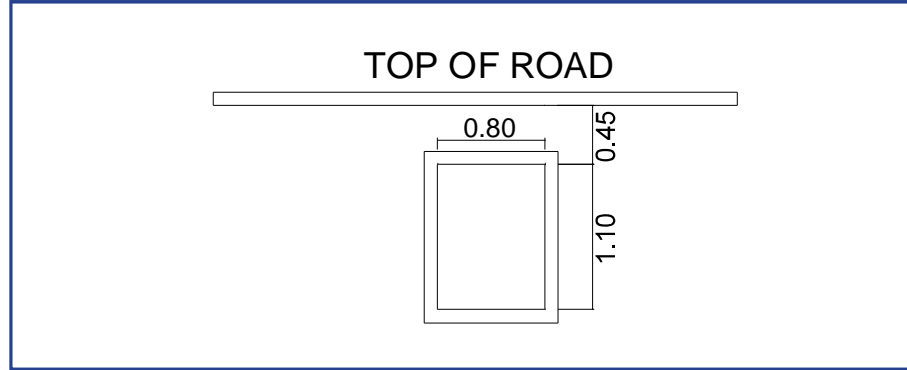
14. DETAIL OF GG. 05 (TANAH ABANG AREA)

LAYOUT



POSITION  
 X= 700400.263 Y= 9313897.884

SKETCH



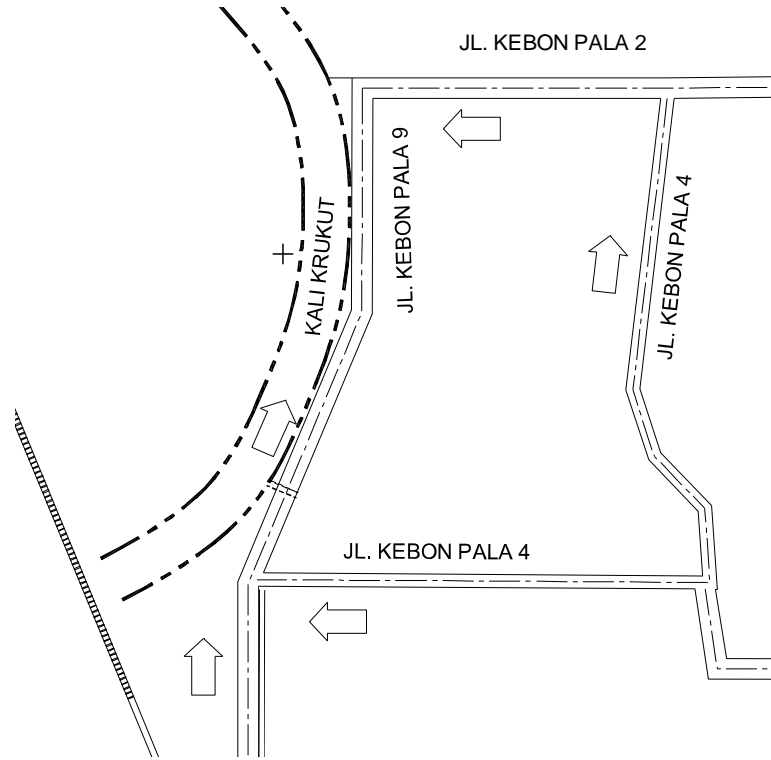
FOTO



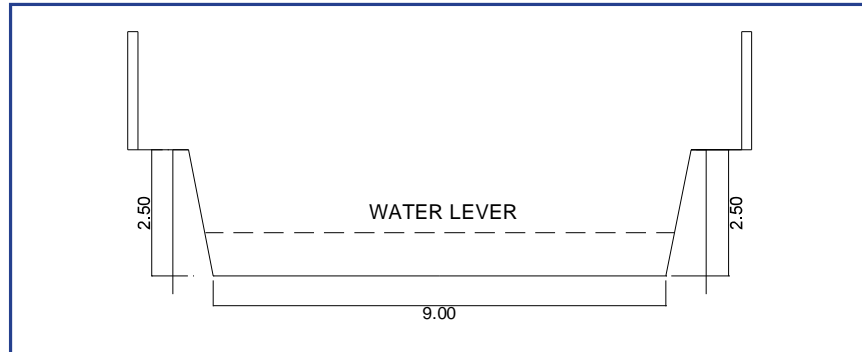
REPORT OF EXISTING DRAINAGE SYSTEM

DETAIL OF KALI KRUKUT (TANAH ABANG AREA)

LAYOUT



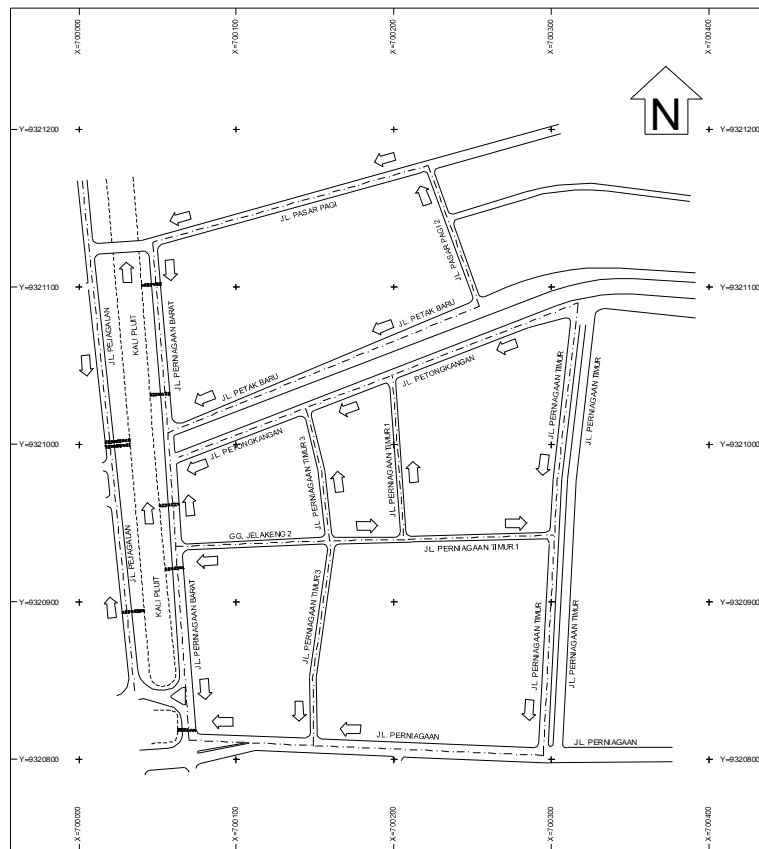
SKETCH



FOTO



c. District Model Tambora Kec. Tambora



LIST OF ROAD

NO.	NAME	LENGTH	COORDINATE			
			START		END	
			X	Y	X	Y
1	JL PERNIAGAAN	250,00	700294,621	9320802,750	700070,031	9320812,296
2	JL PERNIAGAAN BARAT	320,00	700070,031	9320812,296	700046,903	9321128,683
3	JL PERNIAGAAN TIMUR	290,00	700316,692	9321090,289	700294,621	9320802,750
4	JL PETONGKANGAN	280,00	700057,808	9320990,055	700316,692	9321090,289
5	JL PERNIAGAAN TIMUR 1	205,00	700198,814	9321044,649	700301,848	9320942,562
6	JL PERNIAGAAN TIMUR 3	220,00	700149,046	9320808,937	700144,072	9321023,455
7	GANG JELAKENG 2	150,00	700061,590	9320935,052	700206,228	9320939,738
8	JL PETAK BARU	215,00	700056,602	9321007,598	700254,470	9321087,895
9	JL PASAR PAGI	185,00	700046,903	9321128,683	700221,592	9321177,454
10	JL PASAR PAGI 2	100,00	700254,470	9321087,895	700221,592	9321177,454



## MODEL DISTRICT SURVEY TABLE TAMBORA AREA -1 (KEC. TAMBORA)

No.	Kelurahan	River Basin	Jalan	Structure					Condition		Remark
				Type	W Top / dia (m)	W Bottom (m)	H(m)	L(m)	Clogged	A	
1	TAMBORA	KALIPLUIT	PERNIAGAAN	□	0,60	0,60	1,20	250,00	Subsidy	B/C	hf = Depth of flow
2	TAMBORA	KALIPLUIT	PERNIAGAAN BARAT	□	0,70	0,70	1,20	320,00	Subsidy	B/C	(see encl. Photograph)
3	TAMBORA	KALIPLUIT	PERNIAGAAN TIMUR	□	0,50	0,50	0,60	290,00	Subsidy	B/C	
4	TAMBORA	KALIPLUIT	PETONGKANGAN	□	0,60	0,60	1,20	280,00	Subsidy	B/C	0,9
5	TAMBORA	KALIPLUIT	PERNIAGAAN TIMUR 1	□	0,50	0,50	0,70	205,00	Subsidy	B/C	0,5
6	TAMBORA	KALIPLUIT	PERNIAGAAN TIMUR 3	□	0,50	0,50	0,70	220,00	Subsidy	B/C	0,5
7	TAMBORA	KALIPLUIT	GG. JELAKENG 2	□	0,50	0,50	0,70	150,00	Subsidy	B/C	0,5
8	TAMBORA	KALIPLUIT	PETAKBARU	□	0,80	0,80	1,00	215,00	Subsidy	B/C	0,8
9	TAMBORA	KALIPLUIT	PASAR PAGI	□	0,80	0,80	1,00	185,00	Subsidy/Failed	B/C	0,8
10	TAMBORA	KALIPLUIT	PASAR PAGI2	□	0,40	0,40	0,60	100,00	Subsidy	B/C	0,4



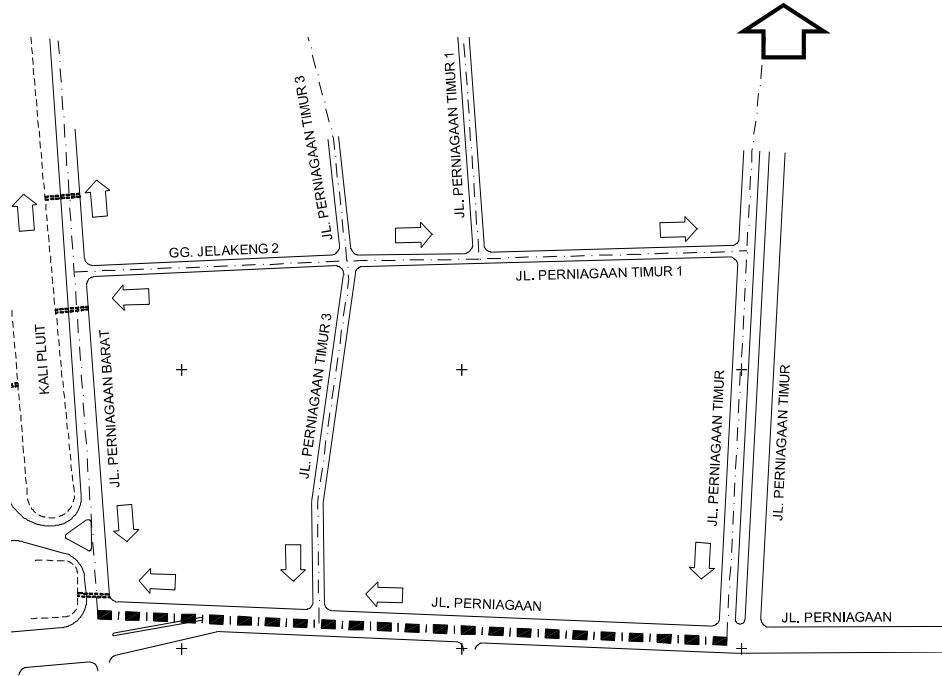
# DISTRICT MODEL

## TAMBORA AREA 1 | KECAMATAN TAMBORA

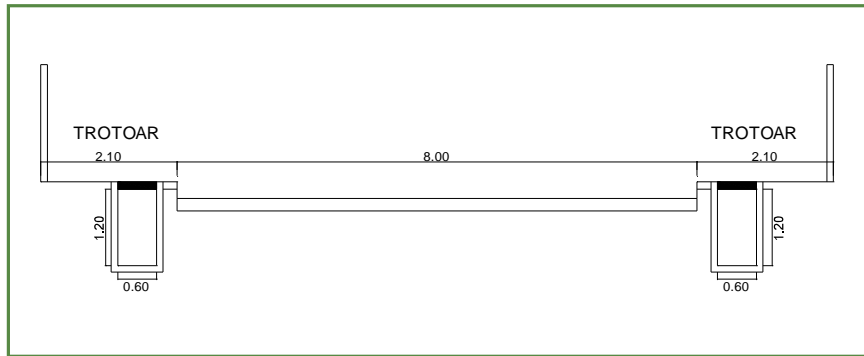


01. DETAIL OF JL. PERNIAGAAN (TAMBORA AREA-1)

LAYOUT



SKETCH

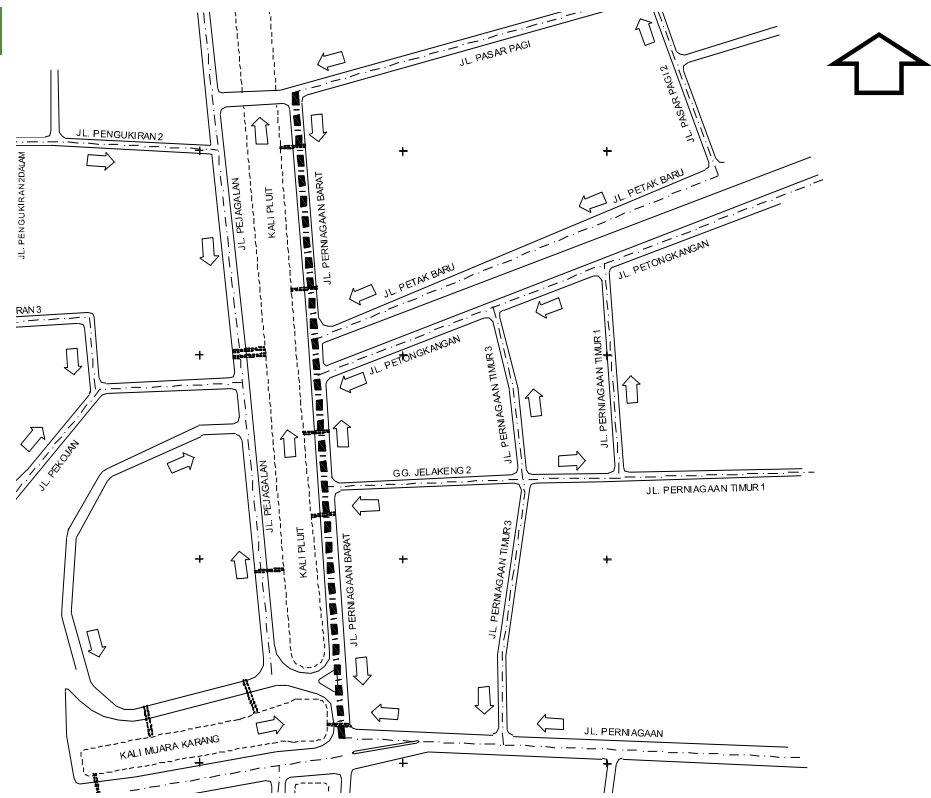


FOTO

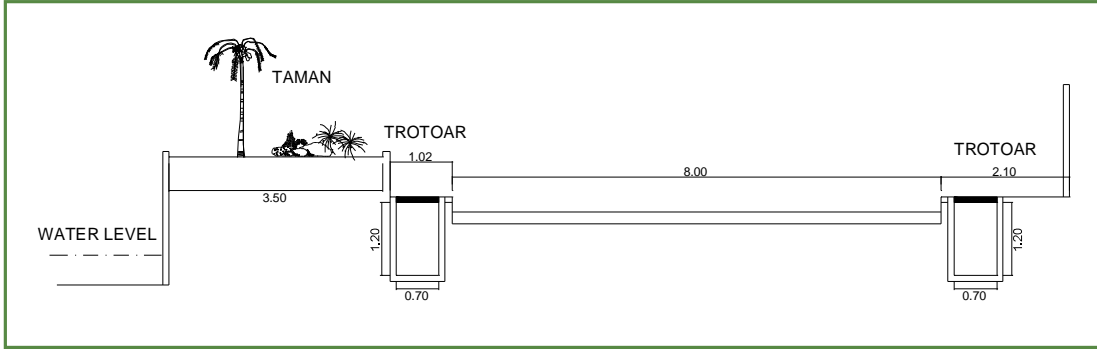


02. DETAIL OF JL. PERNIAGAAN BARAT (TAMBORA AREA-1)

LAYOUT



SKETCH



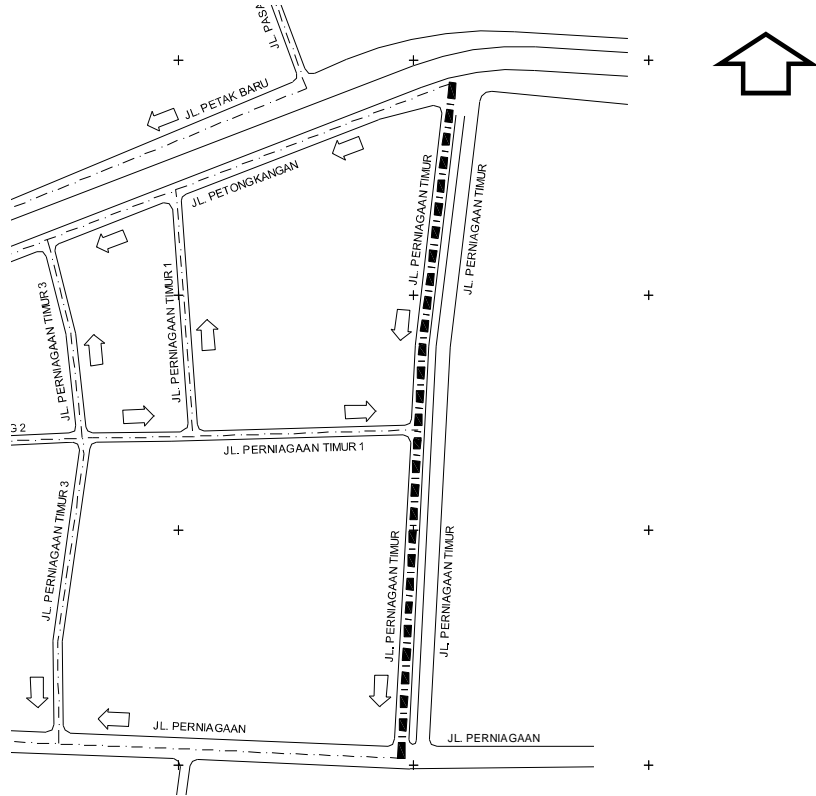
FOTO



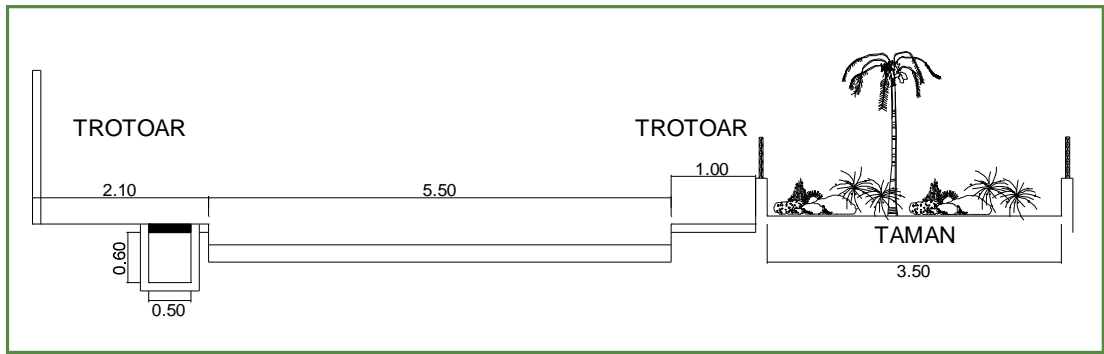
REPORT OF EXISTING DRAINAGE SYSTEM

03. DETAIL OF JL. PERNIAGAAN TIMUR (TAMBORA AREA-1)

LAYOUT



SKETCH

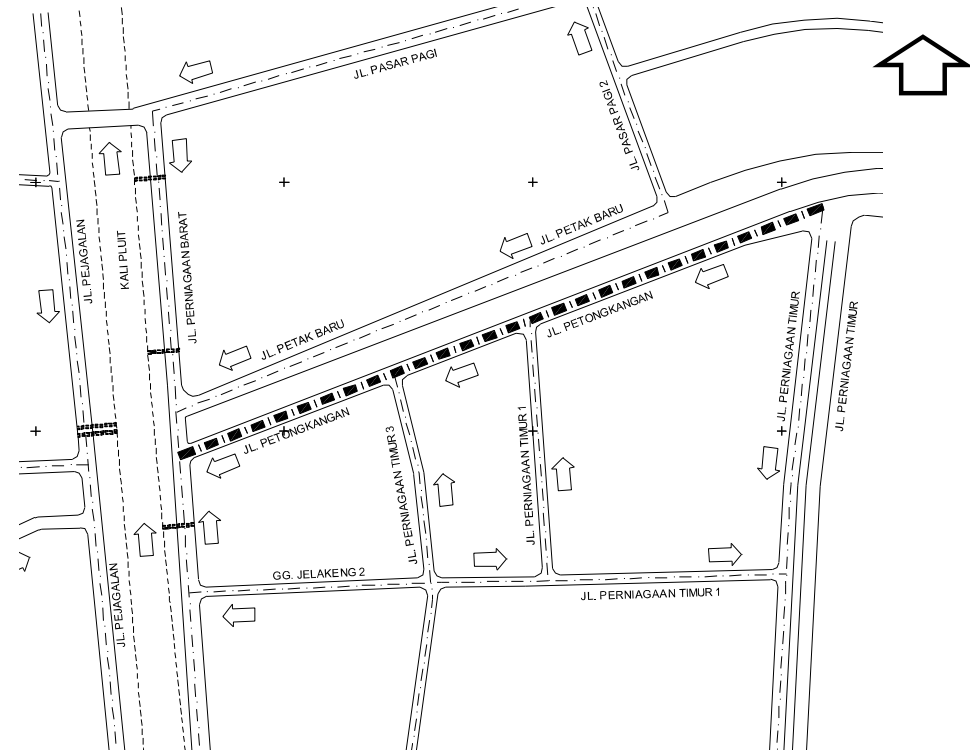


FOTO

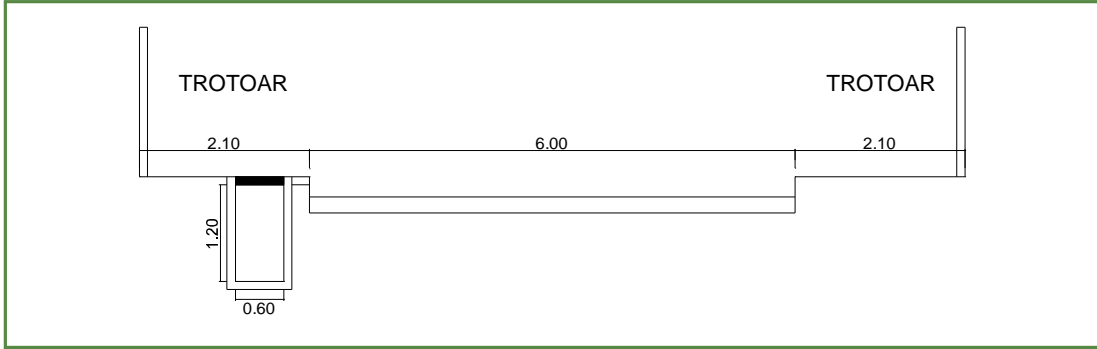


04. DETAIL OF JL. PETONGKANGAN (TAMBORA AREA-1)

LAYOUT



SKETCH



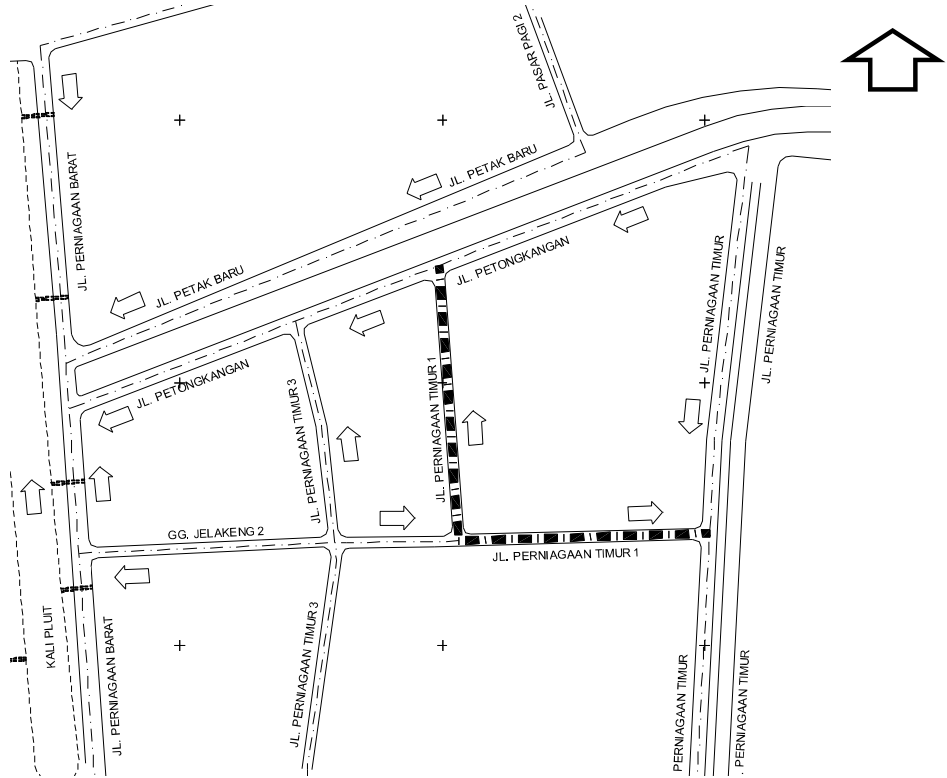
FOTO



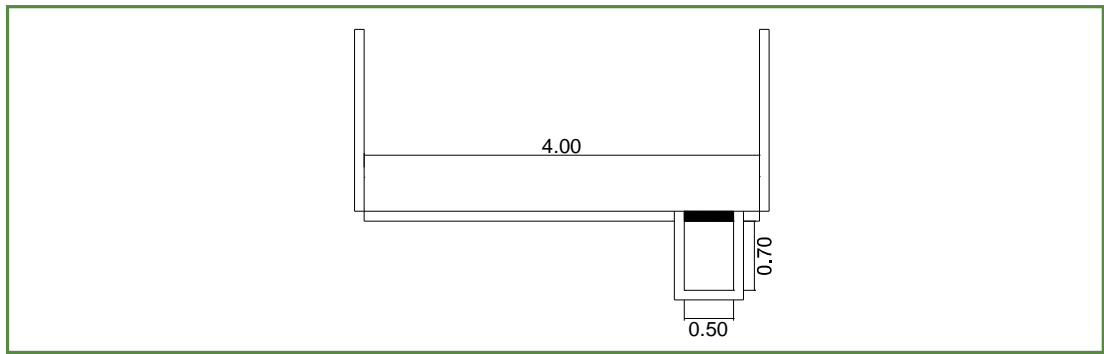
REPORT OF EXISTING DRAINAGE SYSTEM

05. DETAIL OF JL. PERNIAGAAN TIMUR 1 (TAMBORA AREA-1)

LAYOUT



SKETCH



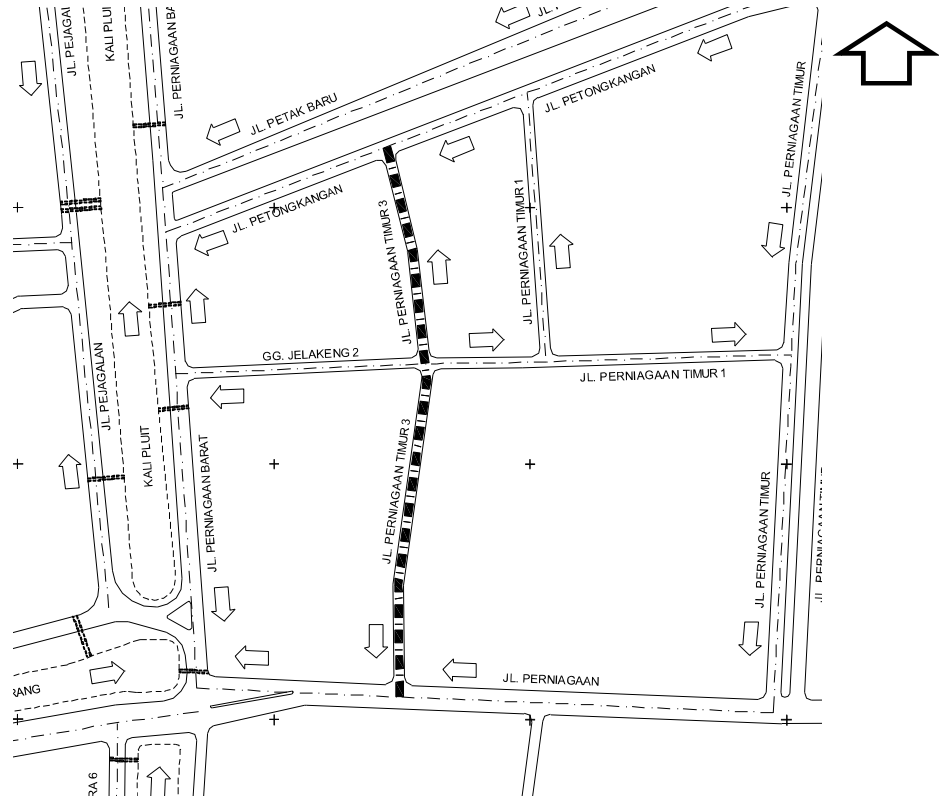
FOTO



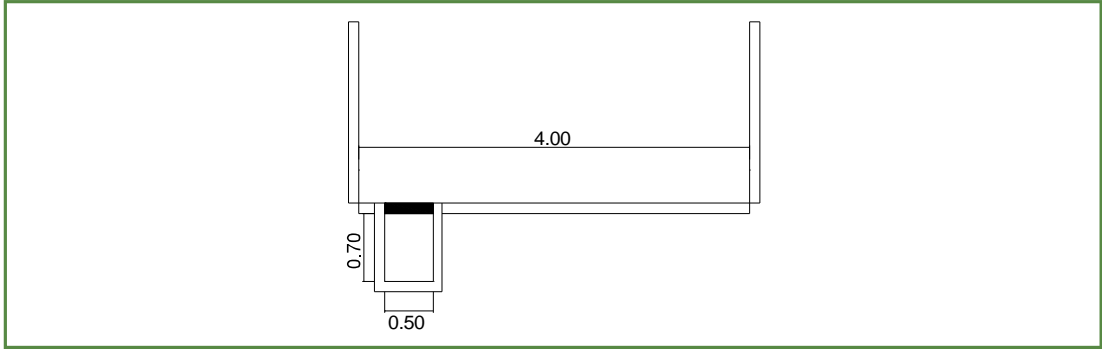


06. DETAIL OF JL. PERNIAGAAN TIMUR 3 (TAMBORA AREA-1)

LAYOUT



SKETCH

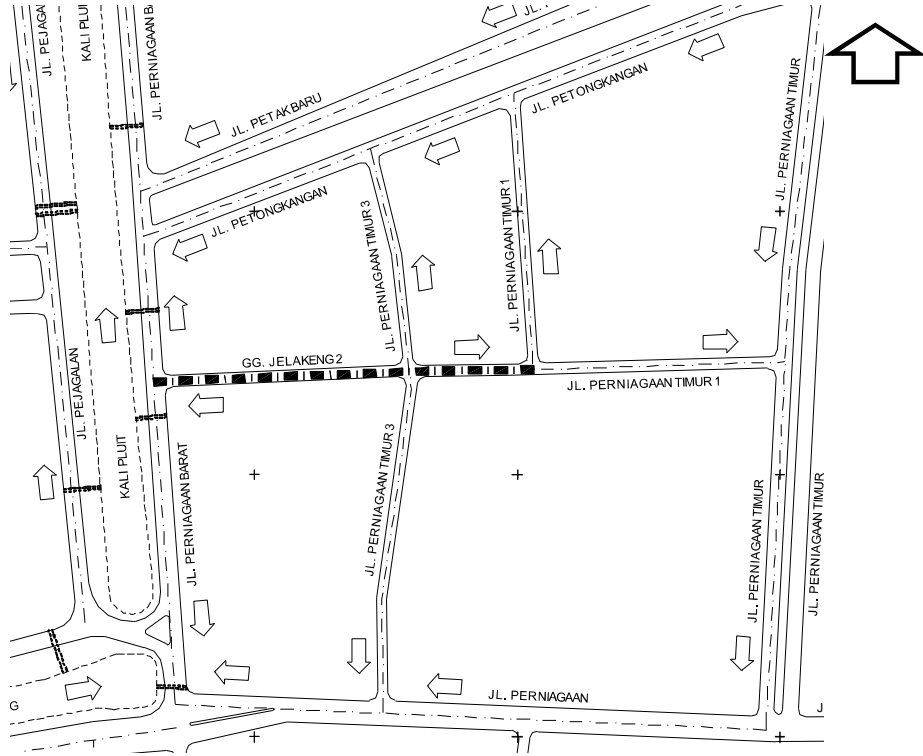


FOTO

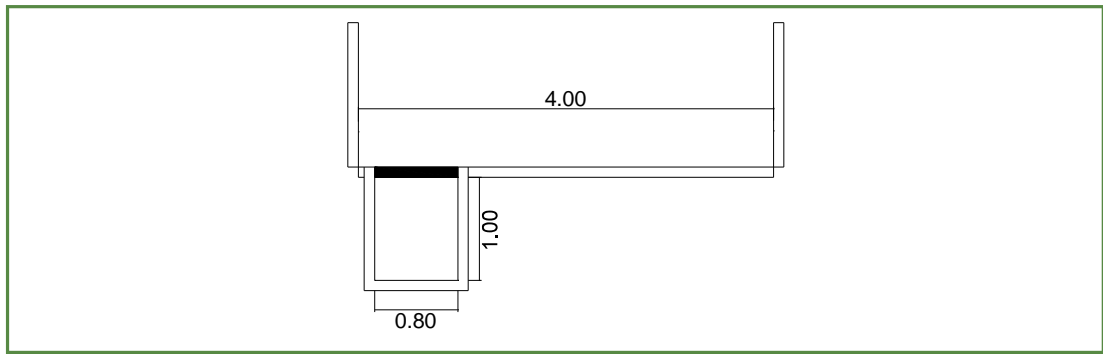


07. DETAIL OF GG. JELAKENG 2 (TAMBORA AREA-1)

LAYOUT



SKETCH



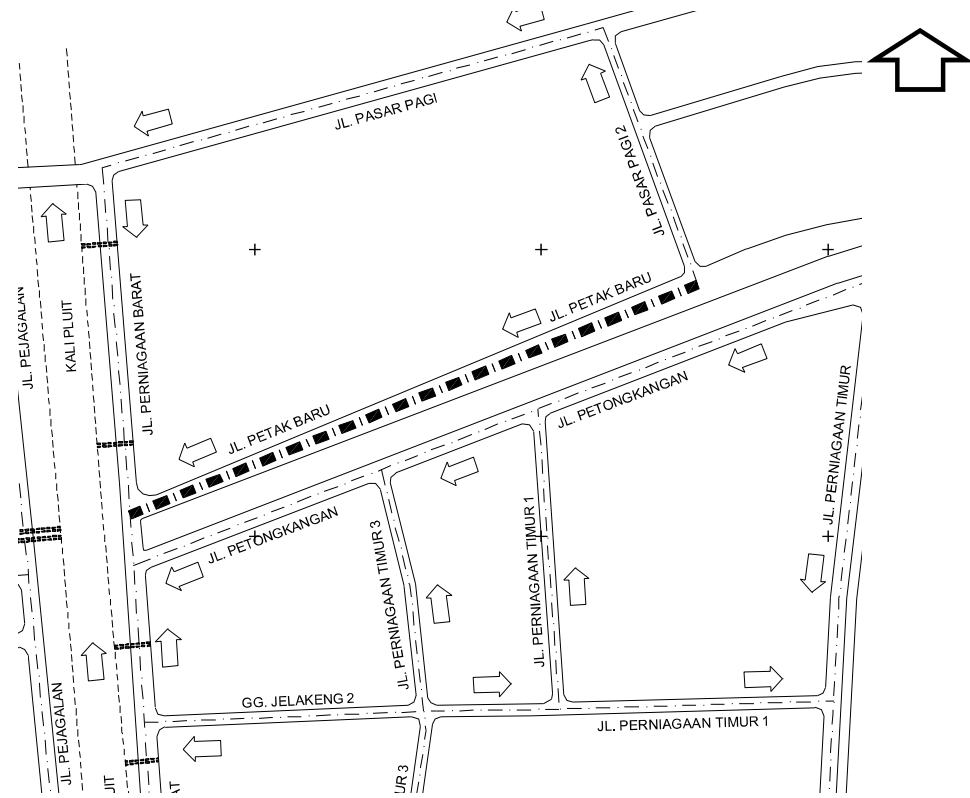
FOTO



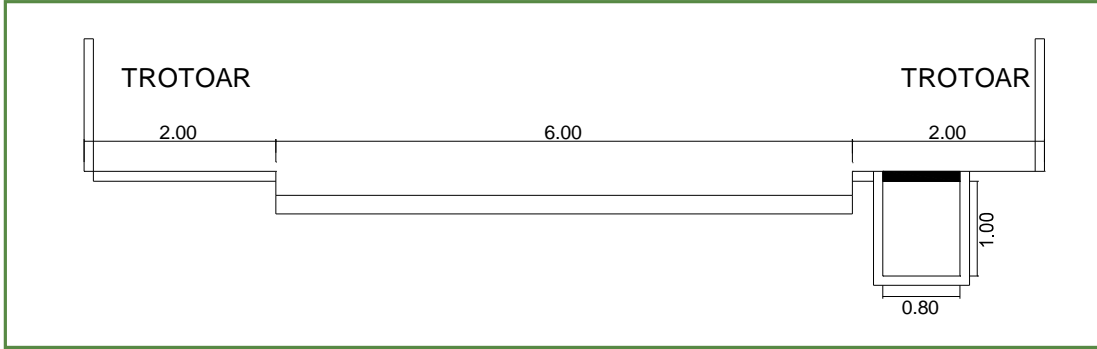


08. DETAIL OF JL. PETAK BARU (TAMBORA AREA-1)

LAYOUT



SKETCH



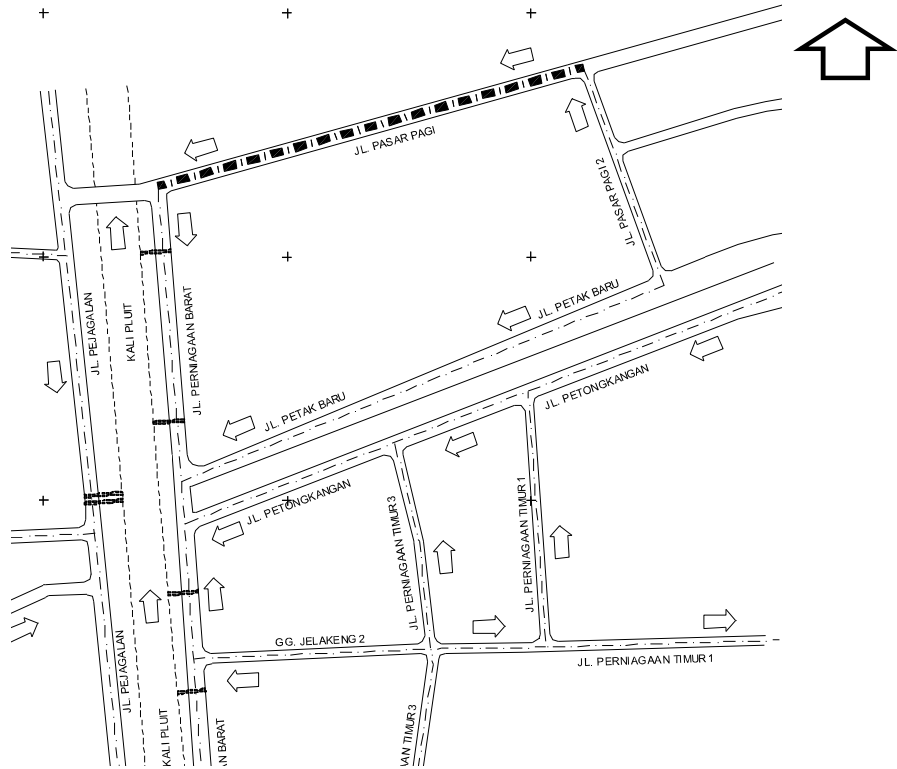
FOTO



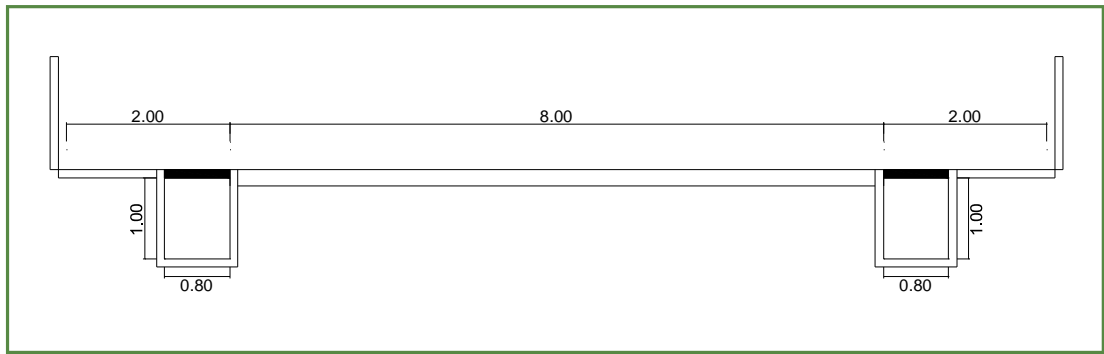
REPORT OF EXISTING DRAINAGE SYSTEM

09. DETAIL OF JL. PASAR PAGI (TAMBORA AREA-1)

LAYOUT



SKETCH

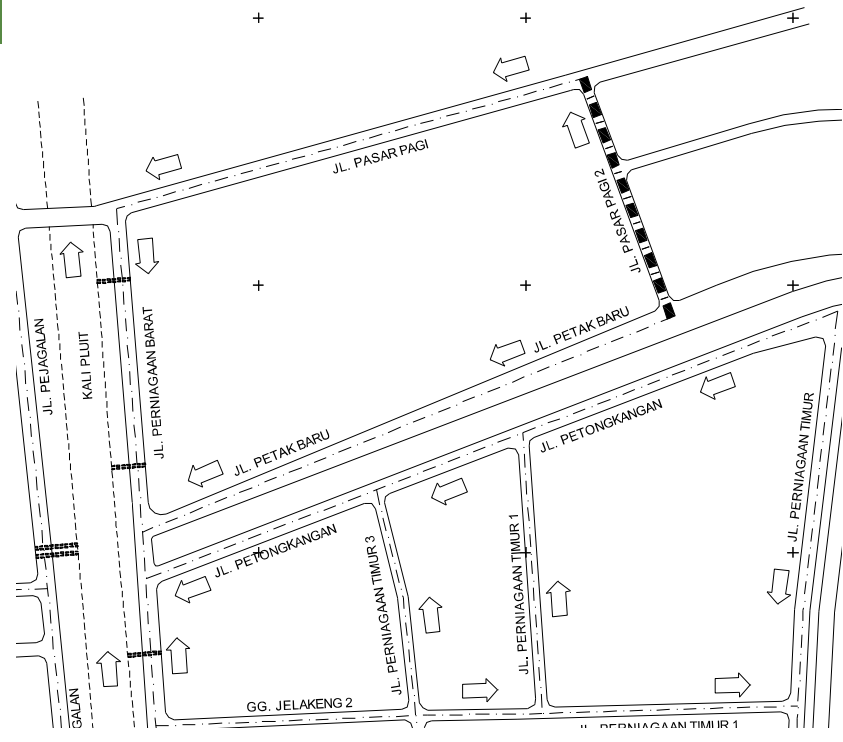


FOTO

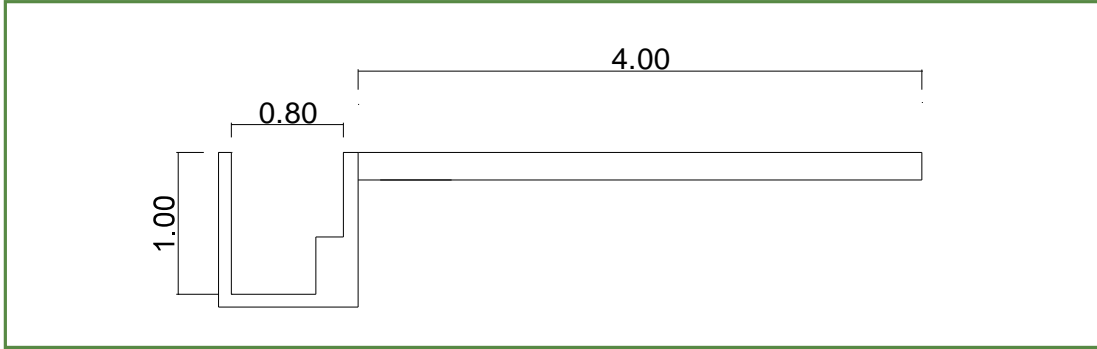


10. DETAIL OF JL. PASAR PAGI 2 (TAMBORA AREA-1)

LAYOUT



SKETCH



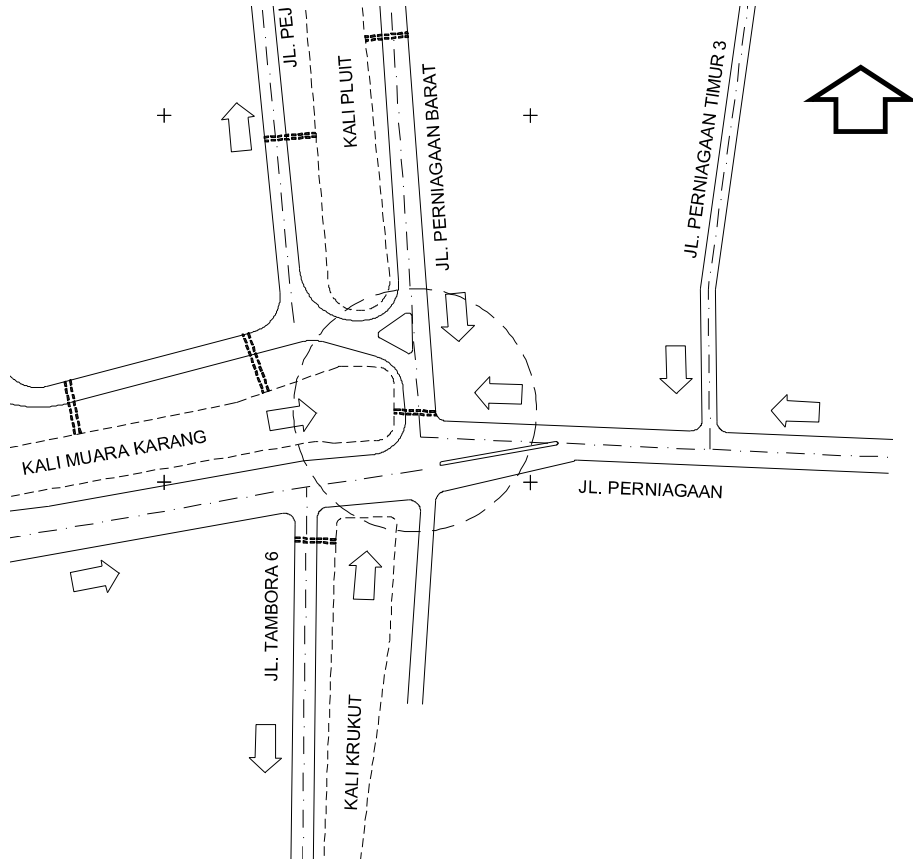
FOTO



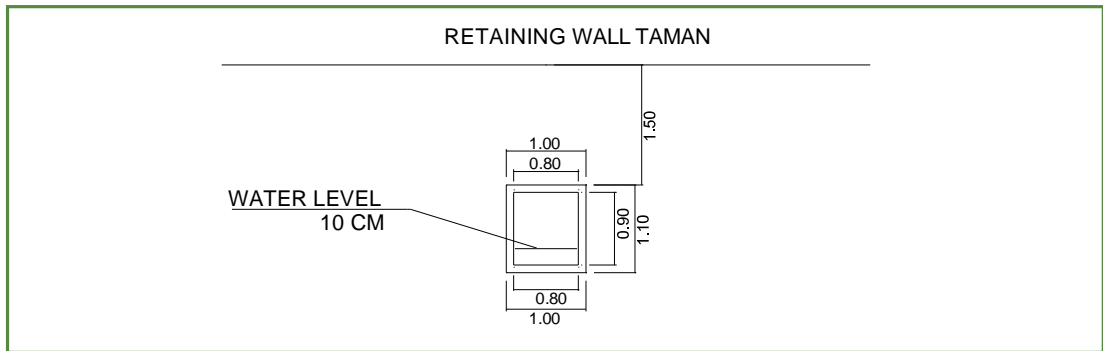
REPORT OF EXISTING DRAINAGE SYSTEM

DETAIL OF BOX CULVERT - 1 (TAMBORA AREA-1)

LAYOUT



SKETCH

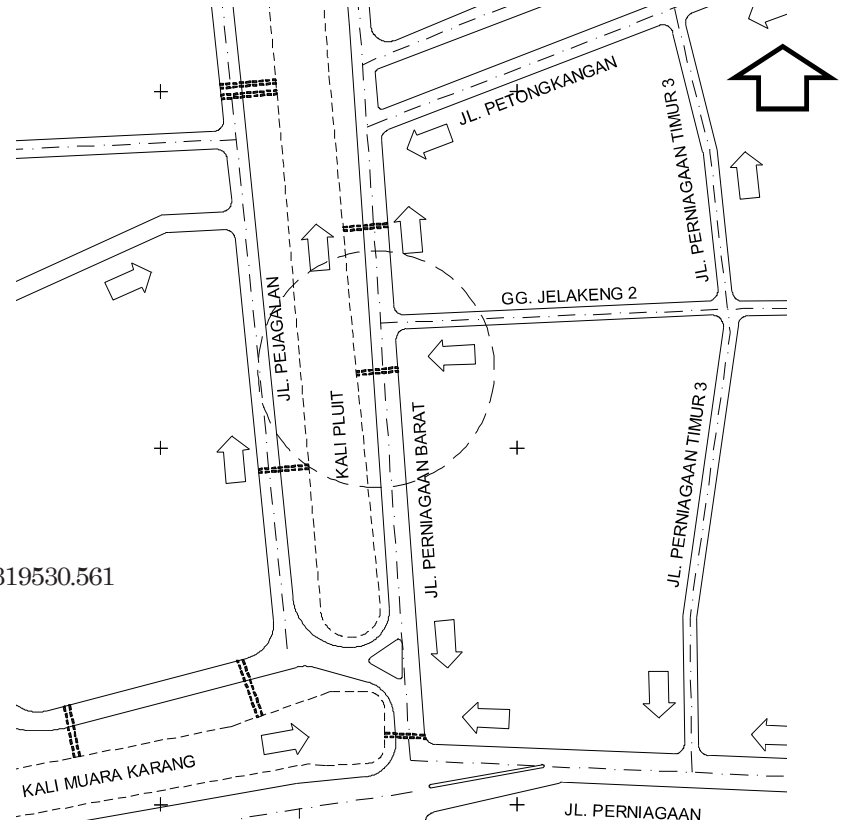


FOTO



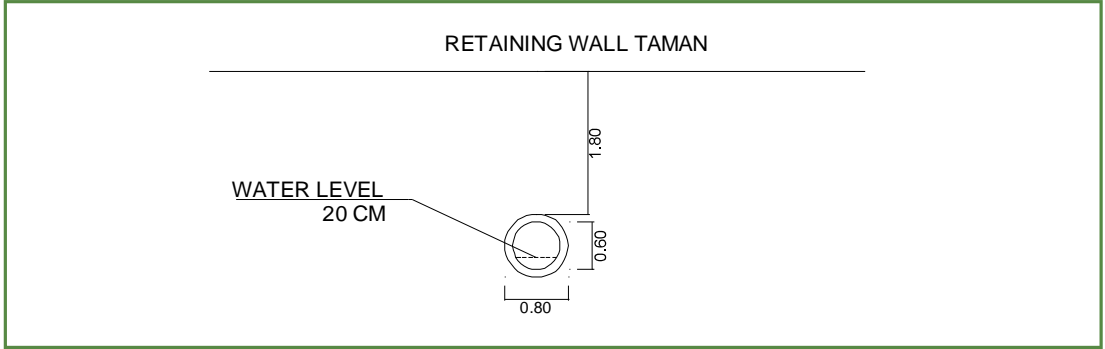
DETAIL OF CULVERT-2 (TAMBORA AREA-1)

LAYOUT



POSITION  
X= 700060.750 Y= 9319530.561

SKETCH



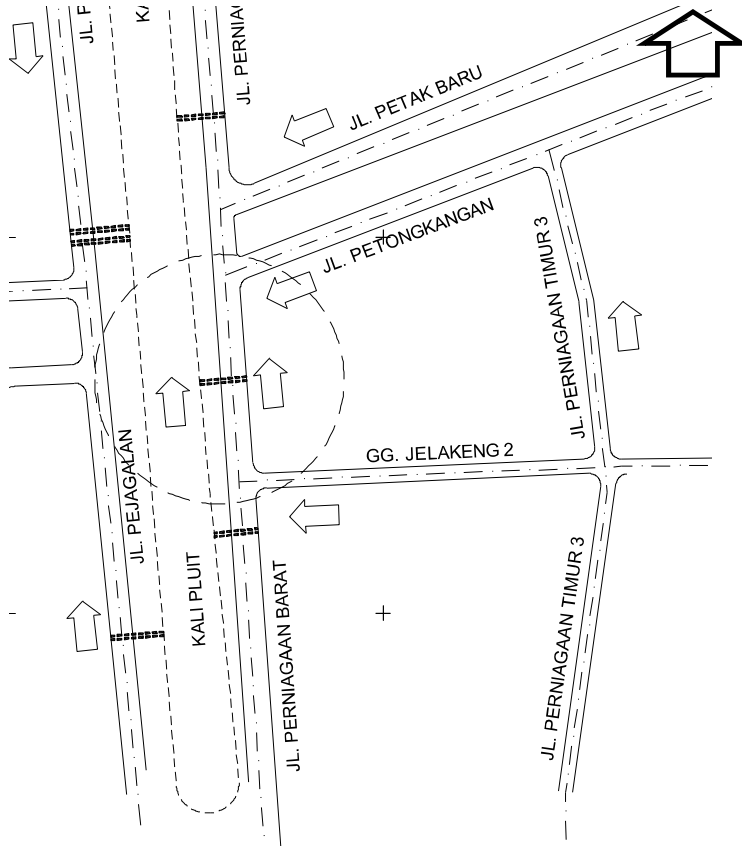
FOTO



REPORT OF EXISTING DRAINAGE SCHEMIX

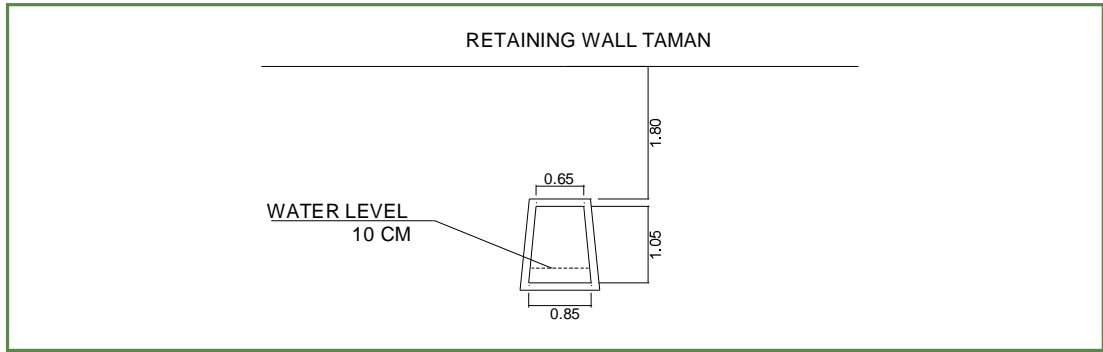
**DETAIL OF BOX CULVERT-3 (TAMBORA AREA-1)**

**LAYOUT**



POSITION  
 X= 700057.471  
 Y= 9319570.016

**SKETCH**



**FOTO**

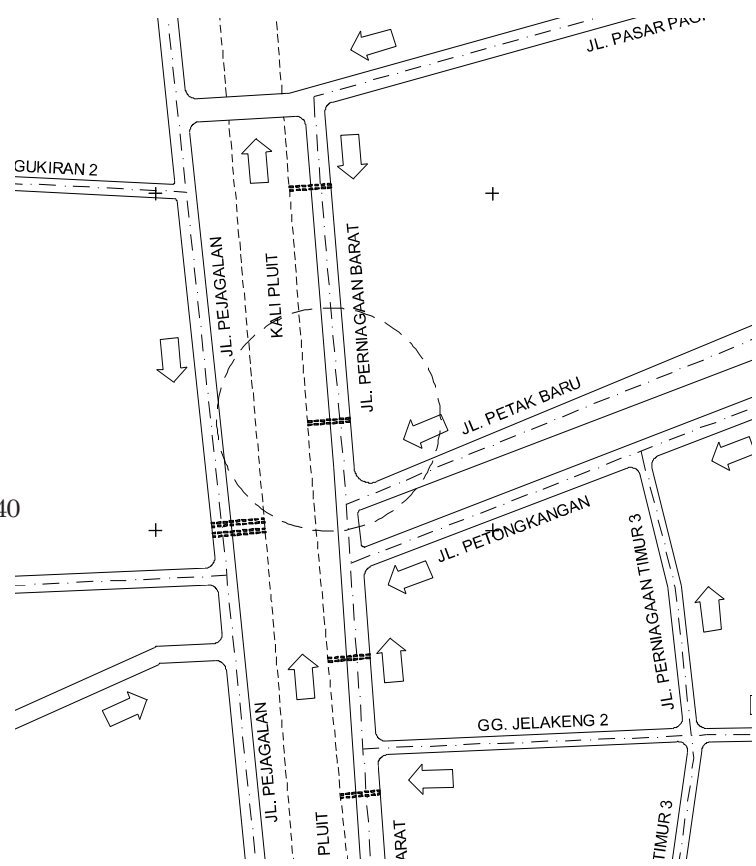




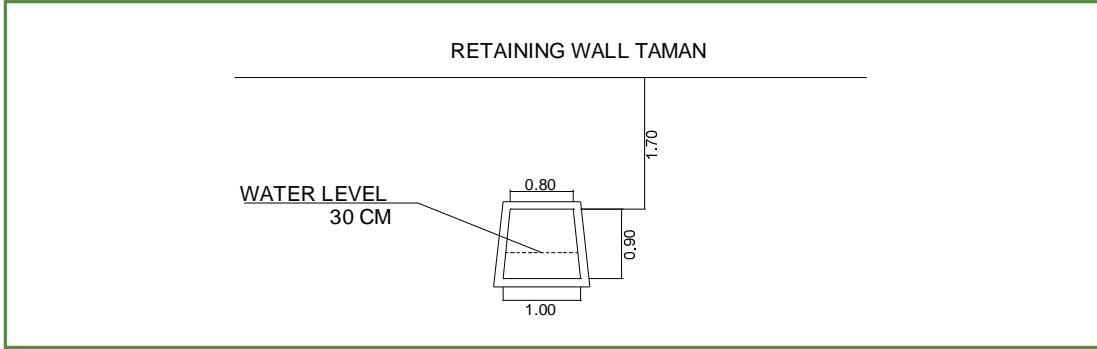
DETAIL OF BOX CULVERT-4 (TAMBORA AREA-1)

LAYOUT

POSITION  
X= 700051.423 Y= 9319641.240



SKETCH



FOTO

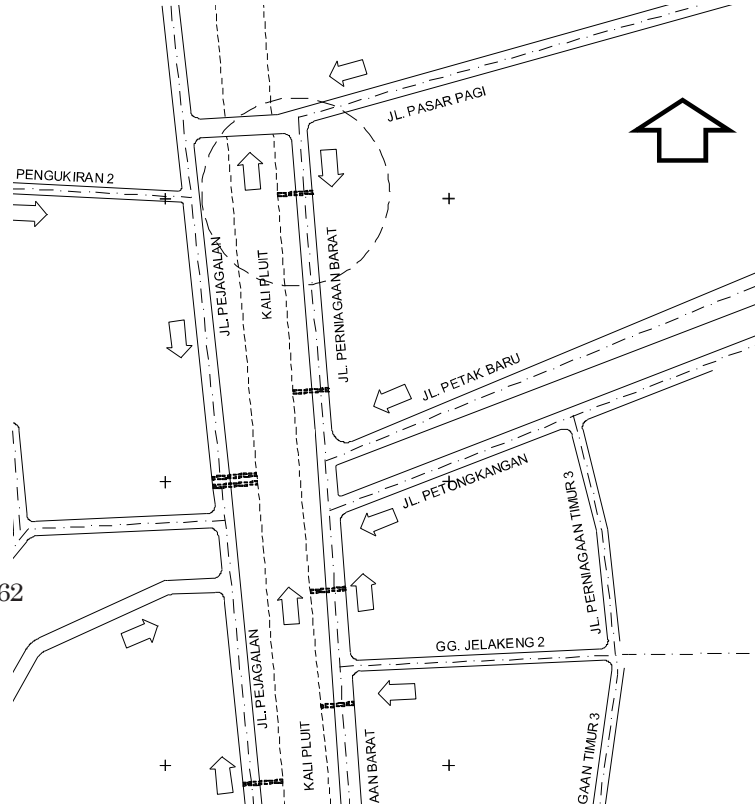


REPORT OF EXISTING DRAINAGE SYSTEM

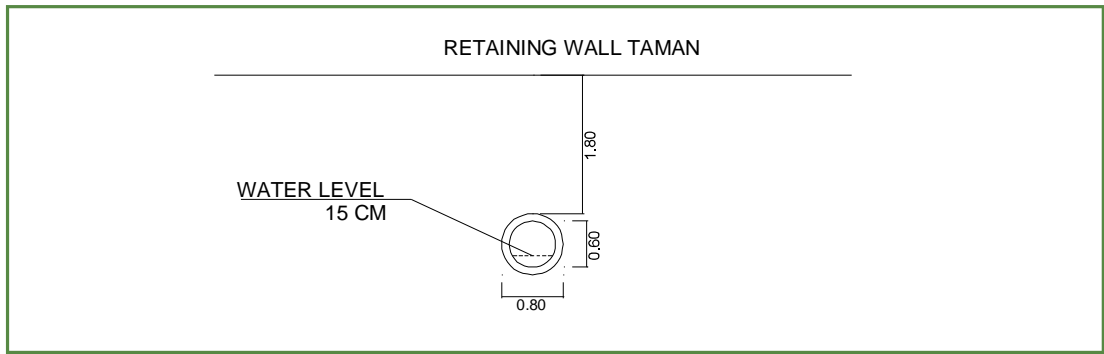
DETAIL OF CULVERT-5 (TAMBORA AREA-1)

LAYOUT

POSITION  
 X = 700046.118 Y = 9319709.862



SKETCH

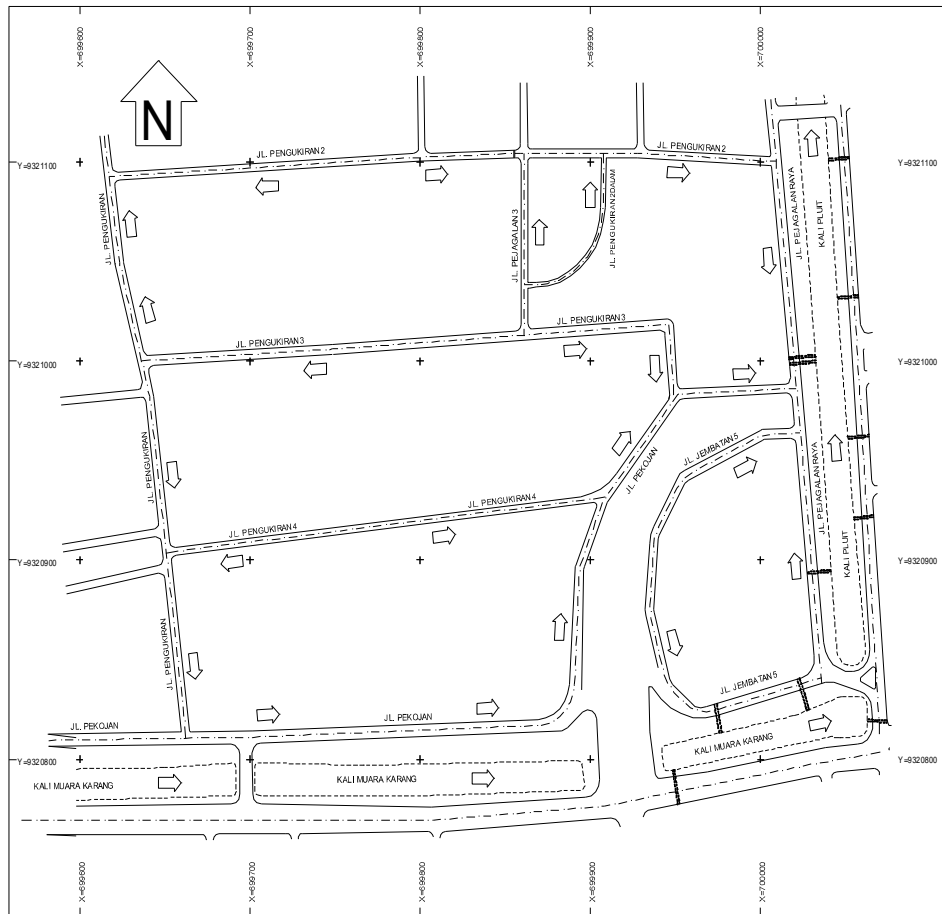


FOTO





DISTRICT MODEL TAMBORA AREA-2 (KEC. TAMBORA)



LIST OF ROAD

NO.	NAME	LENGTH	COORDINATE			
			START		END	
			X	Y	X	Y
1	JL. PEIAGALAN RAYA	335,00	703450,240	9320860,084	703416,187	9321190,237
2	JL. PEKOJAN	560,00	703435,375	9321008,705	702995,918	9320831,652
3	JL. PENGUKIRAN	310,00	703076,739	9320832,730	703028,464	9321135,769
4	JL. PENGUKIRAN 2	400,00	703031,383	9321114,951	703423,361	9321122,605
5	JL. PENGUKIRAN 3	350,00	703050,478	9321022,321	703363,234	9321005,068
6	JL. PENGUKIRAN 4	265,00	703065,046	9320926,001	703323,059	9320953,788
7	JL. PENGUKIRAN 2 DALAM	100,00	703275,331	9321060,378	703322,132	9321126,669
8	JL. JEMBATAN 5	285,00	703437,629	9320986,172	703449,937	9320863,106
9	JL. PEIAGALAN 3	100,00	703275,331	9321035,310	703275,331	9321126,658

## MODEL DISTRICT SURVEY TABLE TAMBORA AREA -2 (KEC. TAMBORA)

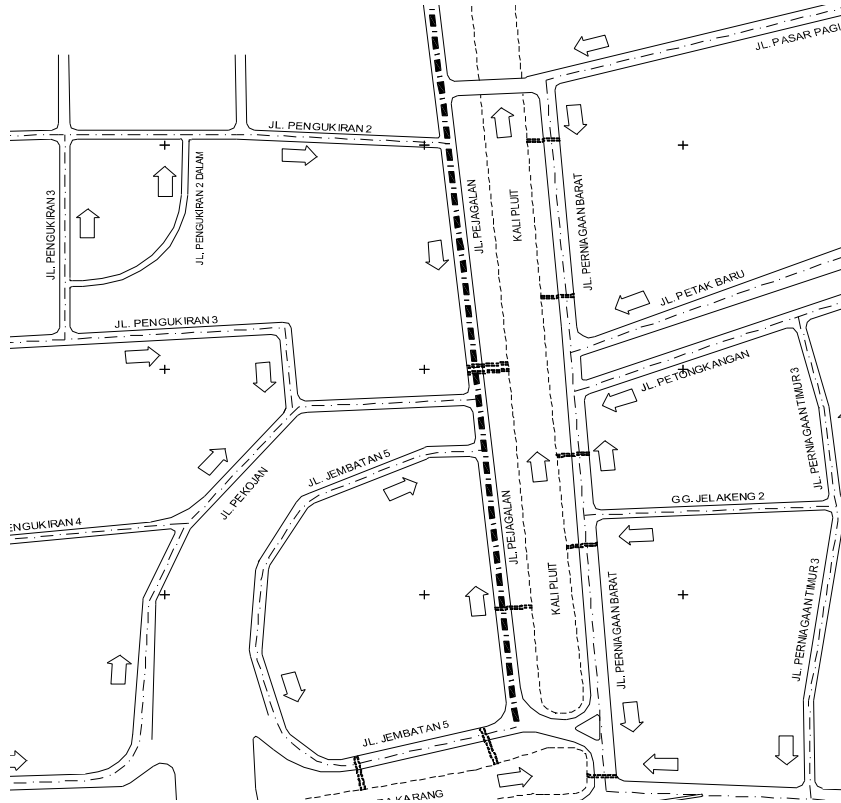
No.	Kelurahan	River Basin	Jalan	Structure					Condition		Remark
				Type	W Top / dia (m)	W Bottom (m)	H (m)	L (m)	Clogged	A	
1	TAMBORA	KALIPLUIT	PEJAGALAN	□	1,00	1,00	1,65	335,00	Subsidy	B/C	hf = Depth of flow
2	TAMBORA	KALIPLUIT	PENGUKIRAN 2	□	0,70	0,60	0,65	400,00	Subsidy	B/C	(see encl. Photograph)
3	TAMBORA	KALIPLUIT	PENGUKIRAN 3	□	0,90	0,90	0,90	350,00	Subsidy	B/C	
4	TAMBORA	KALIPLUIT	PENGUKIRAN 4	□	0,65	0,65	0,90	265,00	Subsidy	B/C	
5	TAMBORA	KALIPLUIT	PENGUKIRAN DALAM 2	□	0,30	0,30	0,50	100,00	Subsidy	B/C	
6	TAMBORA	KALIPLUIT	JEMBATAN 5	□	0,50	0,50	0,60	285,00	Subsidy	B/C	
7	TAMBORA	KALIPLUIT	PEJAGALAN 3	∇	0,80	0,80	1,00	100,00	Subsidy	B/C	
8	TAMBORA	KALIMUARA KARANG	PENGUKIRAN	∇	0,80	0,70	0,65	310,00	Subsidy	B/C	
9	TAMBORA	KALIMUARA KARANG	PEKOJAN	□	0,90	0,90	1,20	560,00	Subsidy	B/C	

# DISTRICT MODEL TAMBORA AREA 2 | KECAMATAN TAMBORA

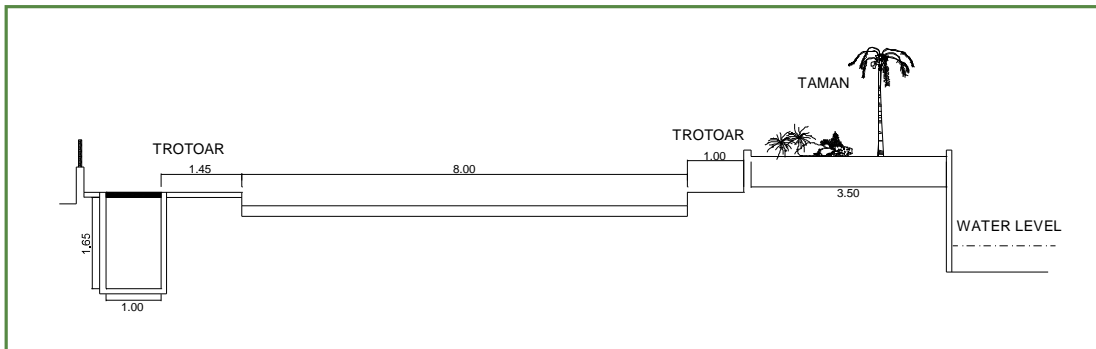


01. DETAIL OF JL PEJAGALAN (TAMBORA AREA-2)

LAYOUT



SKETCH

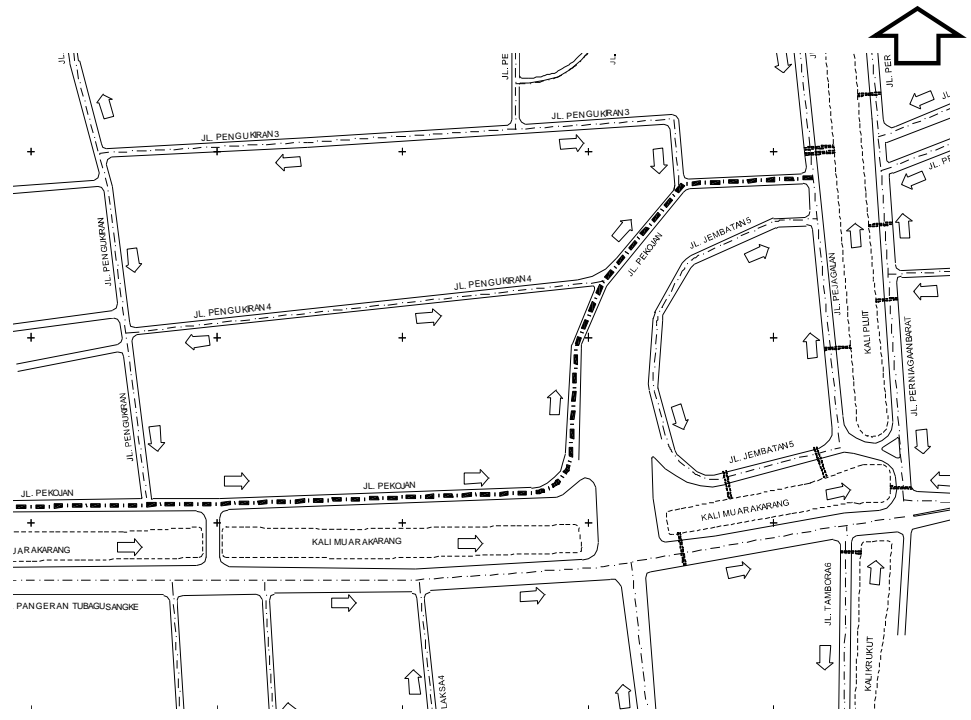


FOTO

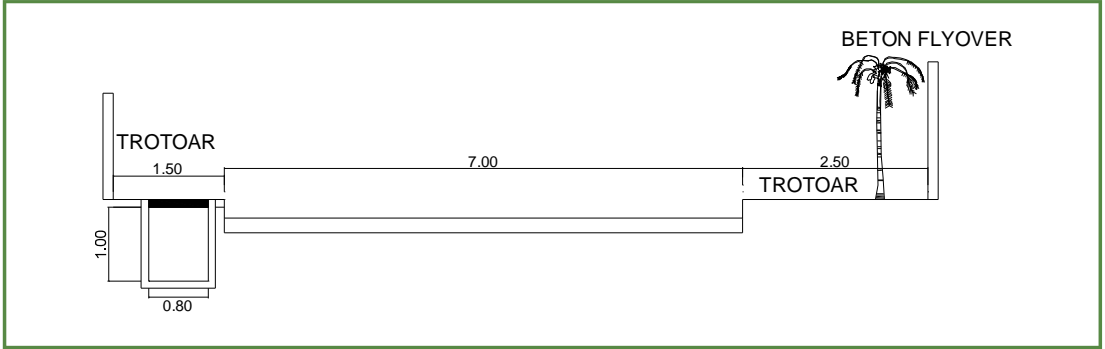


02. DETAIL OF JL. PEKOJAN (TAMBORA AREA-2)

LAYOUT



SKETCH



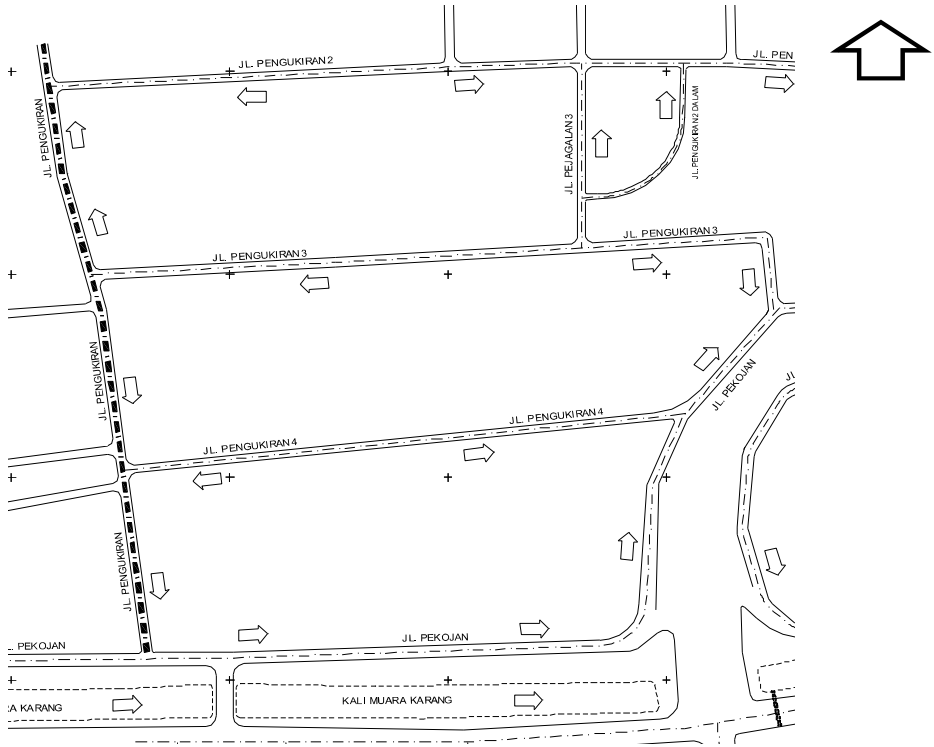
FOTO



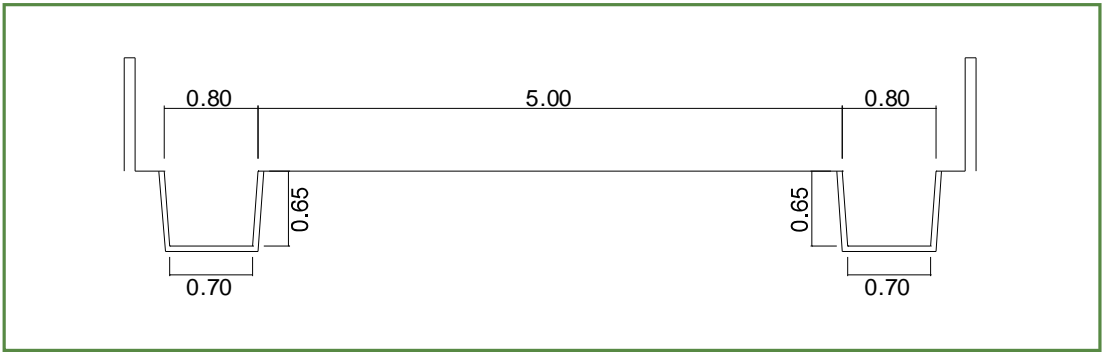
REPORT OF EXISTING DRAINAGE SYSTEM

03. DETAIL OF JL. PENGUKIRAN (TAMBORA AREA-2)

LAYOUT



SKETCH

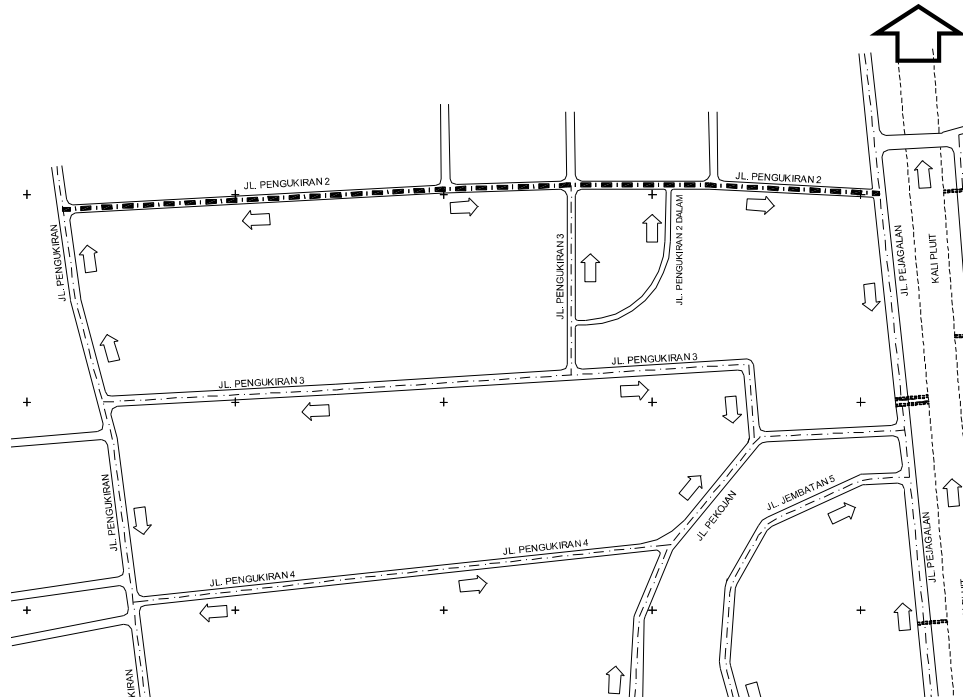


FOTO

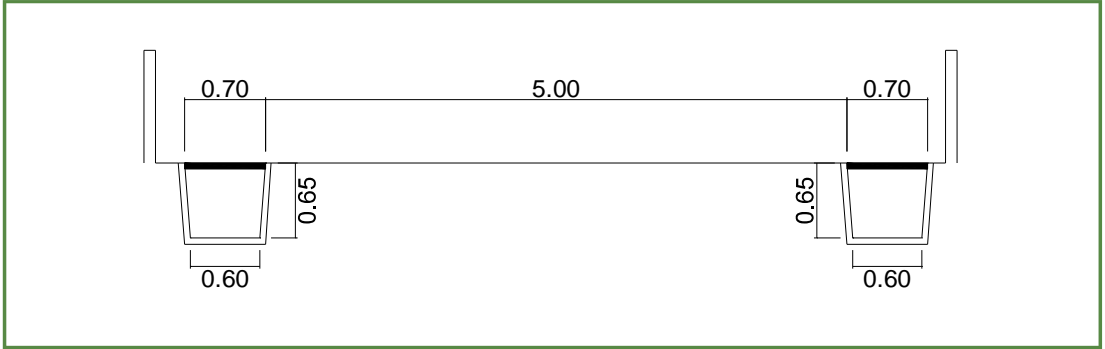


04. DETAIL OF JL. PENGUKIRAN 2 (TAMBORA AREA-2)

LAYOUT



SKETCH



FOTO

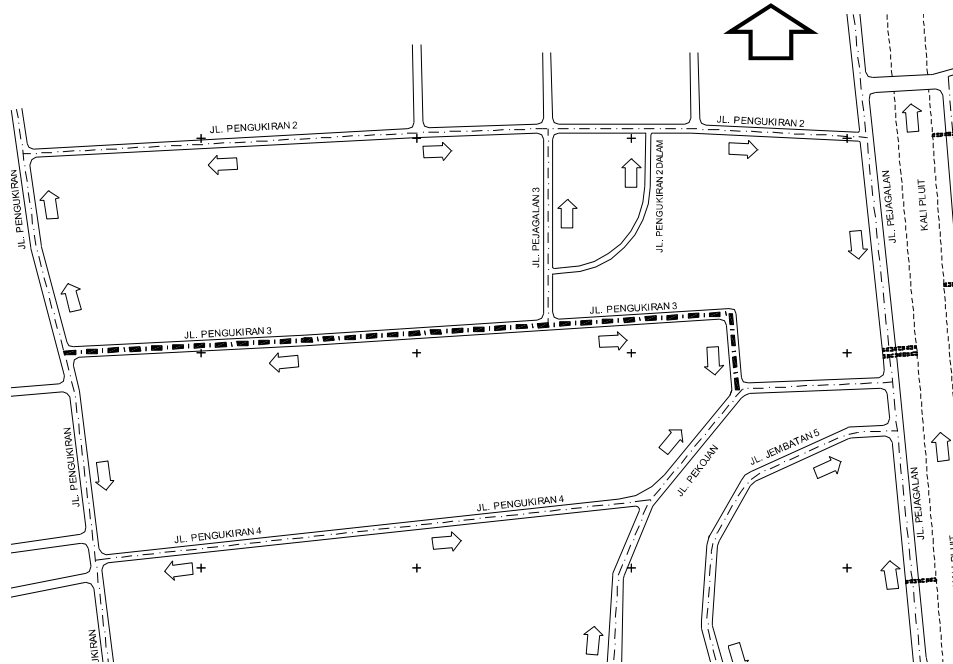


REPORT OF EXISTING DRAINAGE SYSTEM

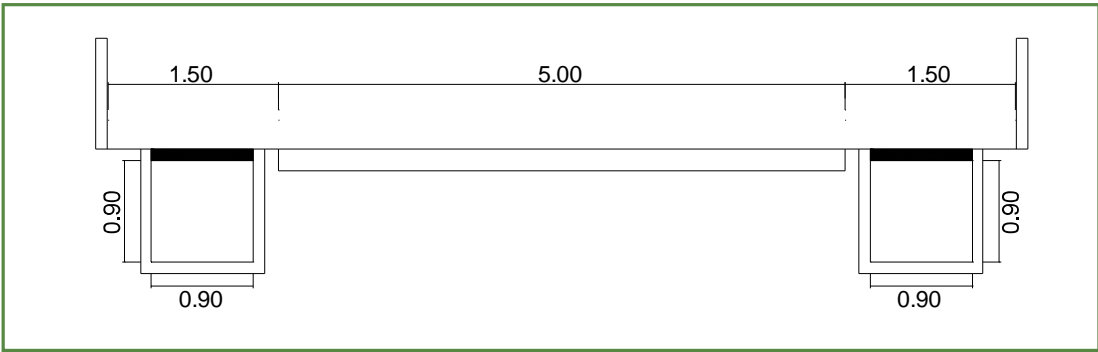


05. DETAIL OF JL. PENGUKIRAN 3 (TAMBORA AREA-2)

LAYOUT



SKETCH

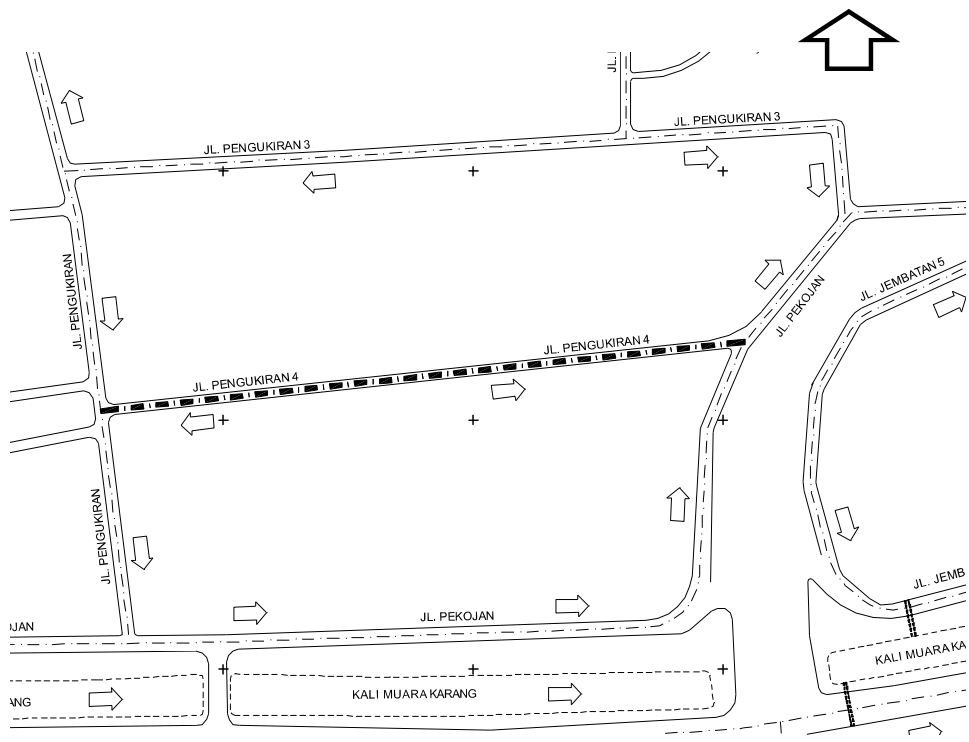


FOTO

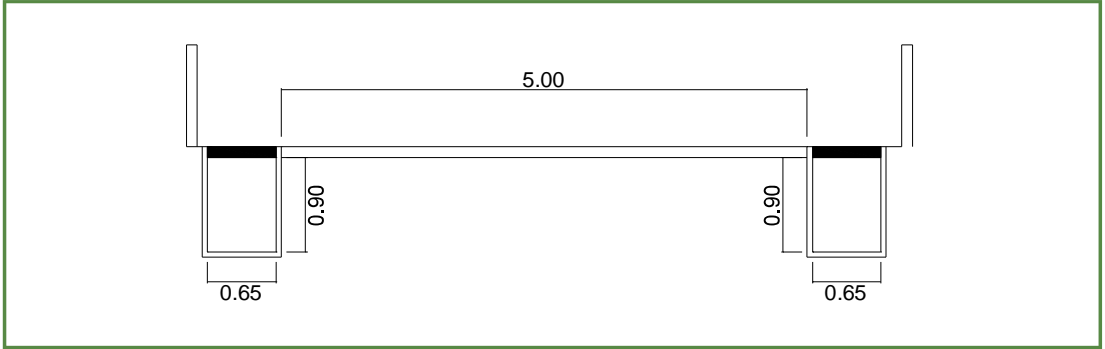


06. DETAIL OF JL. PENGUKIRAN 4 (TAMBORA AREA-2)

LAYOUT



SKETCH



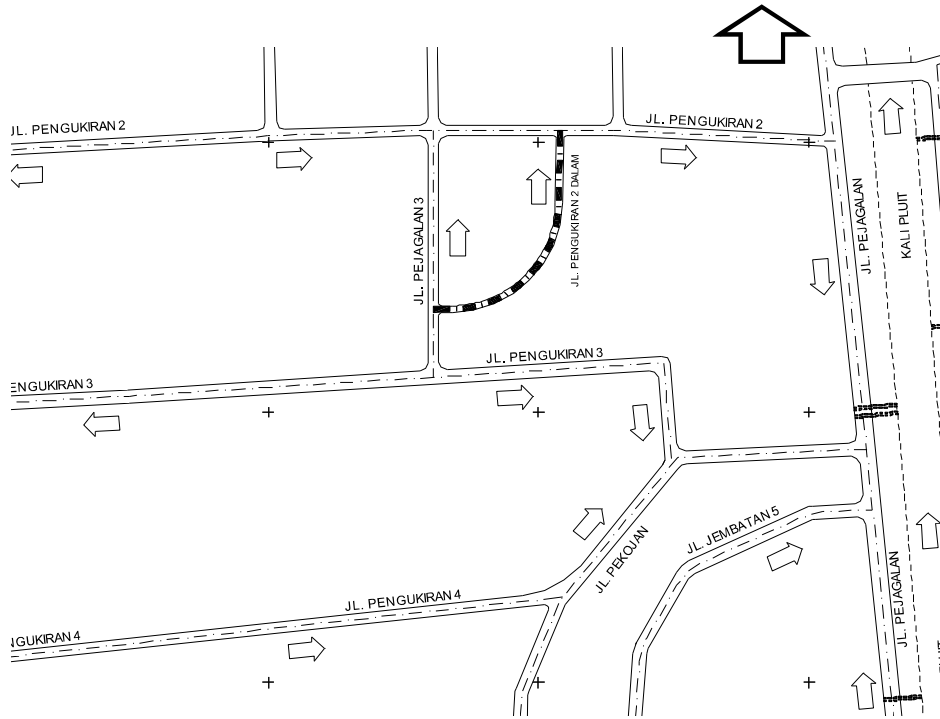
FOTO



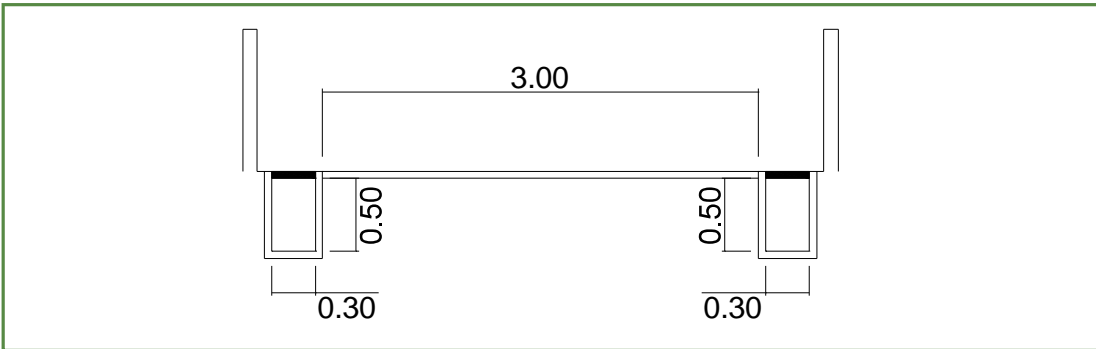
REPORT OF EXISTING DRAINAGE SYSTEM

07. DETAIL OF JL. PENGUKIRAN DALAM 2 (TAMBORA AREA-2)

LAYOUT



SKETCH

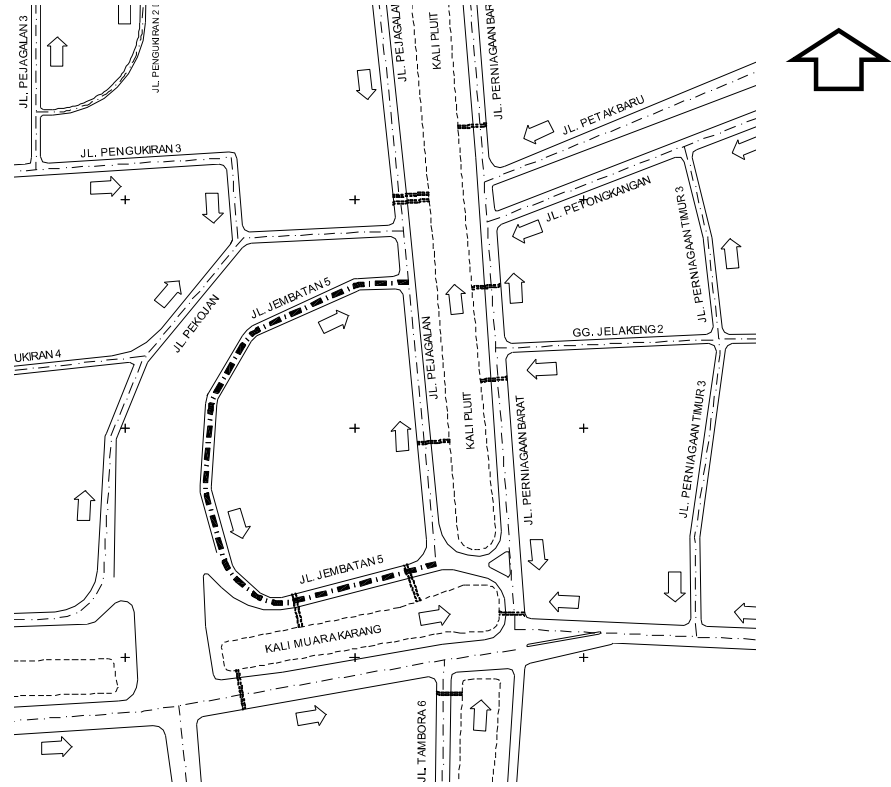


FOTO

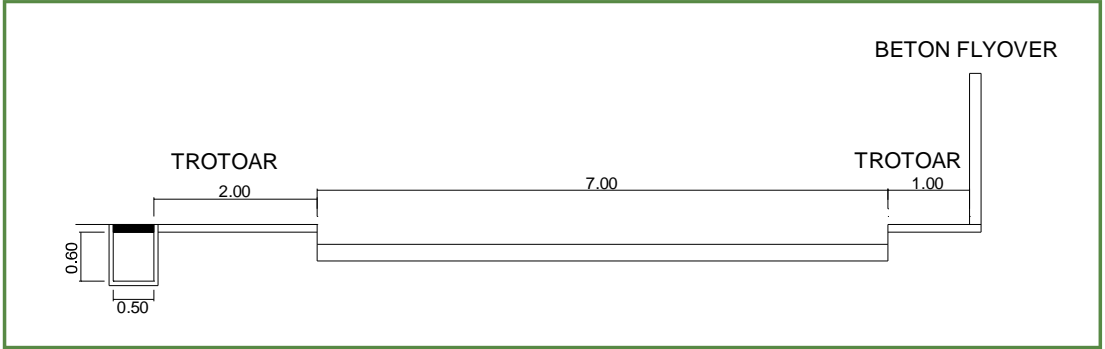


08. DETAIL OF JL. JEMBATAN 5 (TAMBORA AREA-2)

LAYOUT



SKETCH



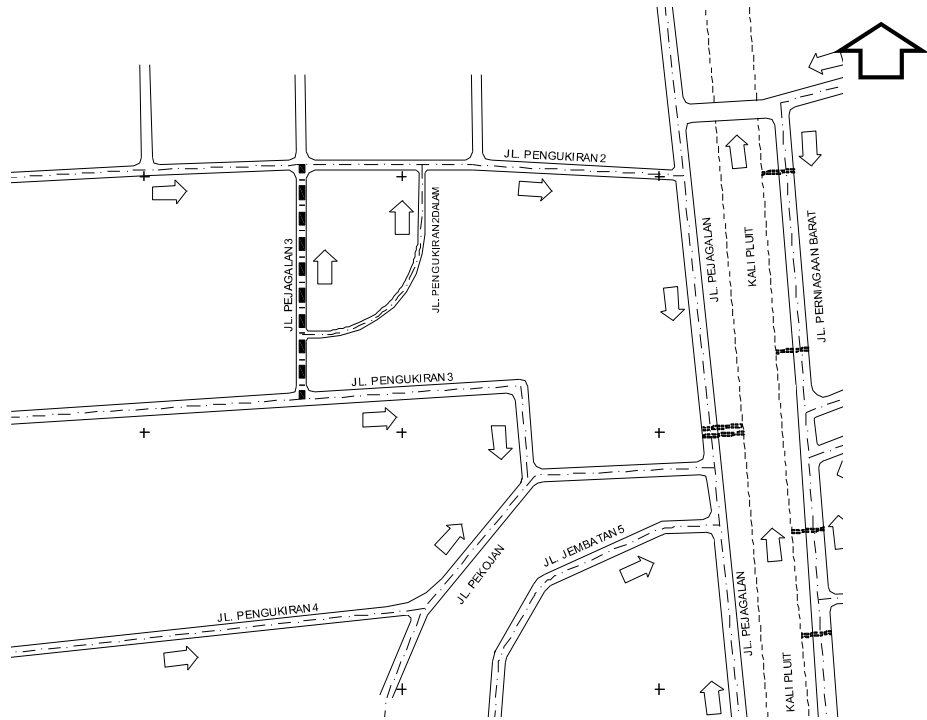
FOTO



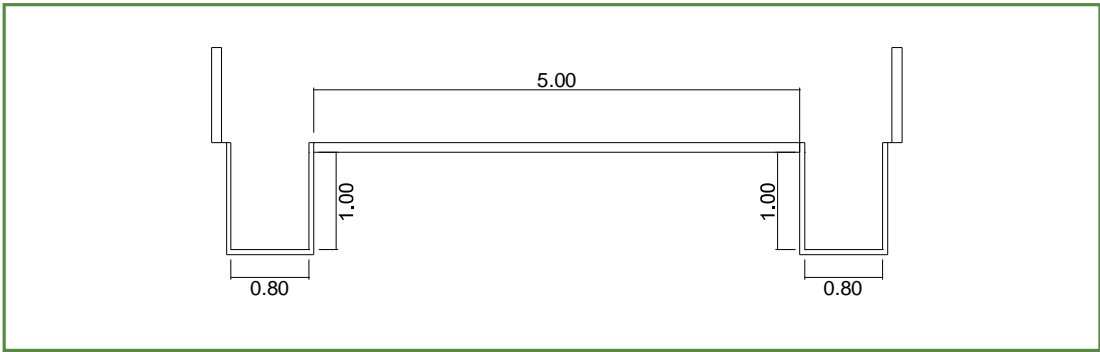
REPORT OF EXISTING DRAINAGE SYSTEM

09. DETAIL OF GG. PEJAGALAN 3 (TAMBORA AREA-2)

LAYOUT



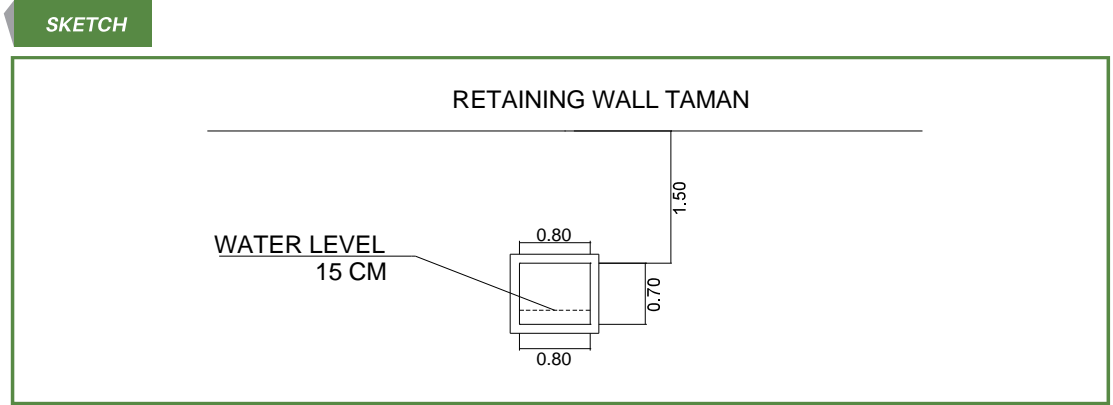
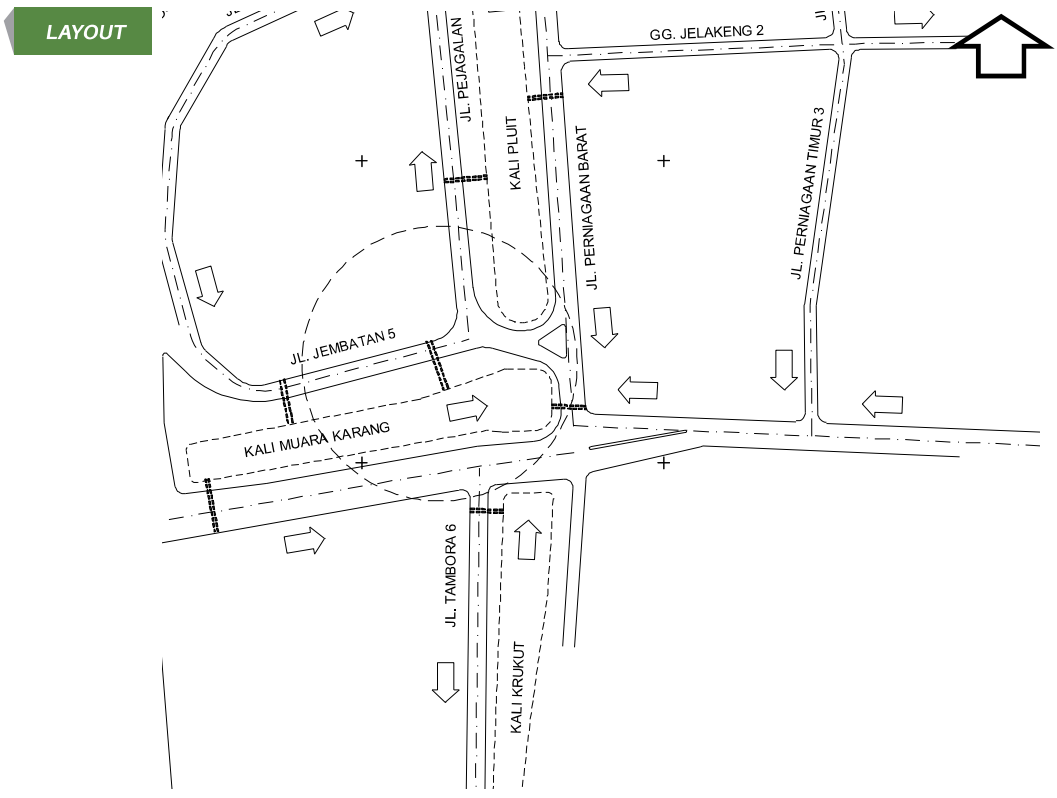
SKETCH



FOTO



DETAIL OF BOX CULVERT - 1 (TAMBORA AREA-2)

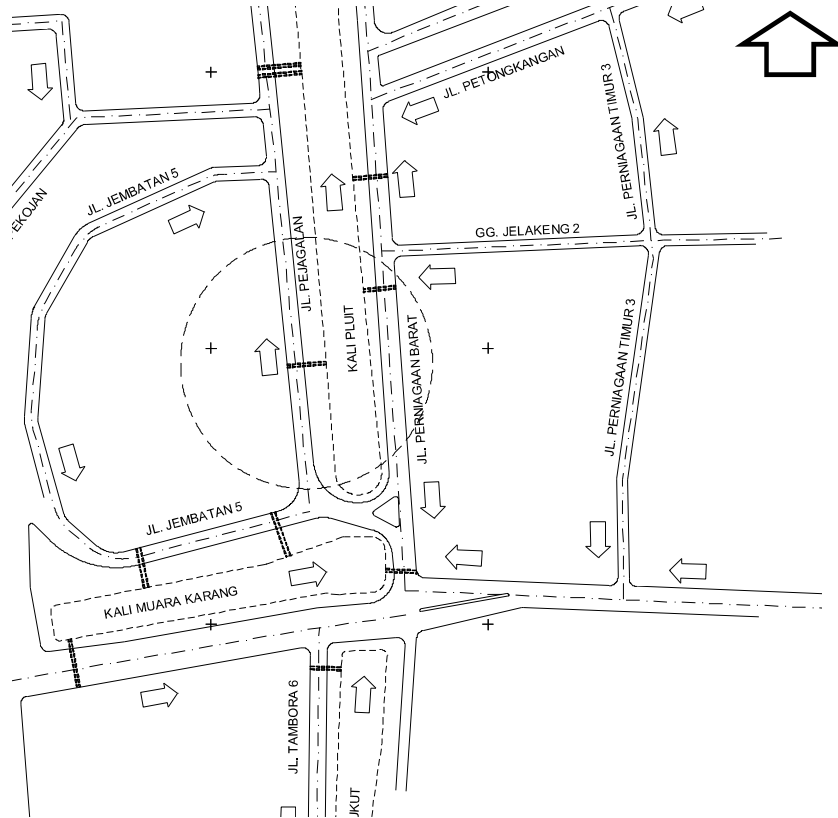


REPORT OF EXISTING DRAINAGE SYSTEM

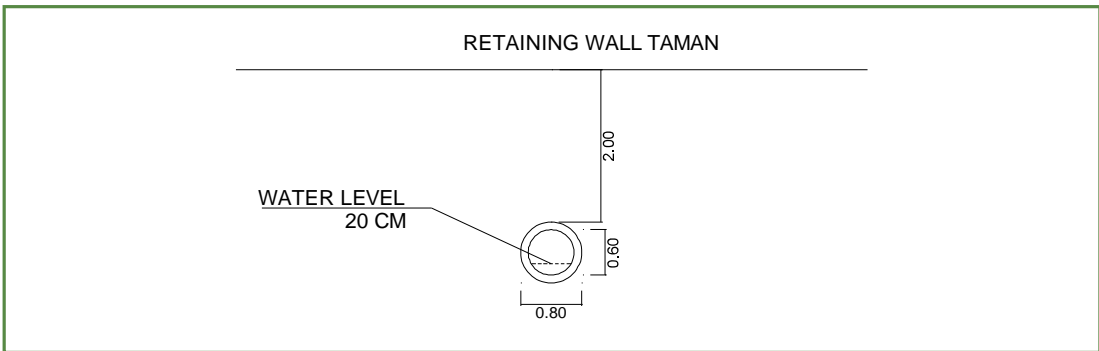


DETAIL OF CULVERT - 1 (TAMBORA AREA-2)

LAYOUT



SKETCH



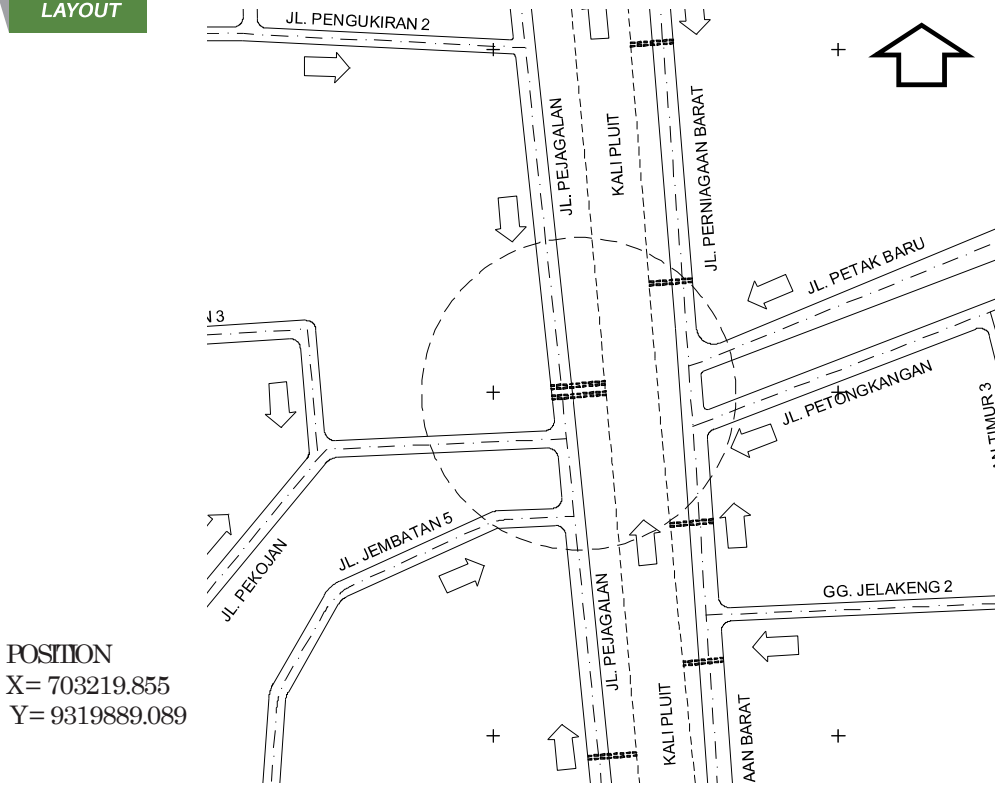
FOTO





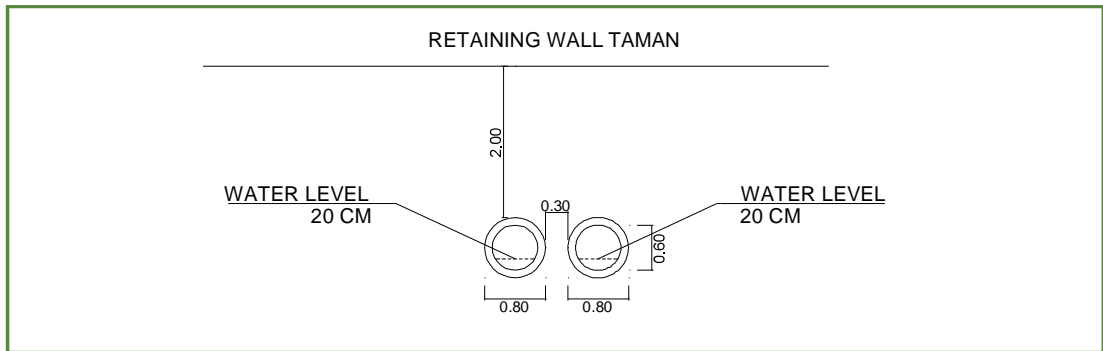
DETAIL OF CULVERT-2 (TAMBORA AREA-2)

LAYOUT



POSITION  
X= 703219.855  
Y= 9319889.089

SKETCH



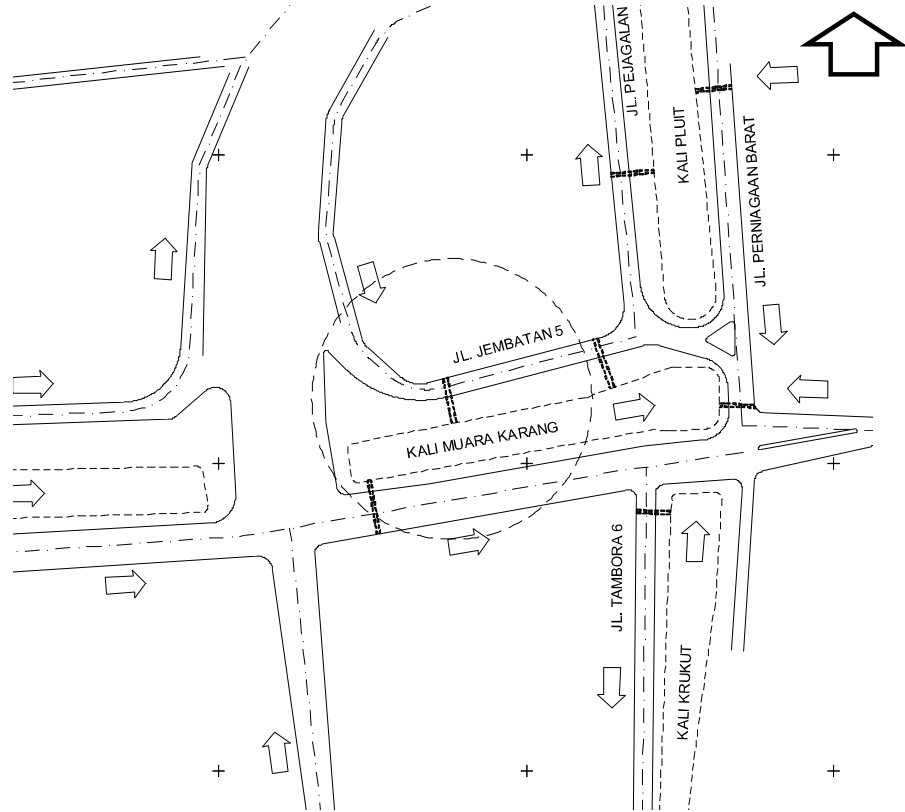
FOTO



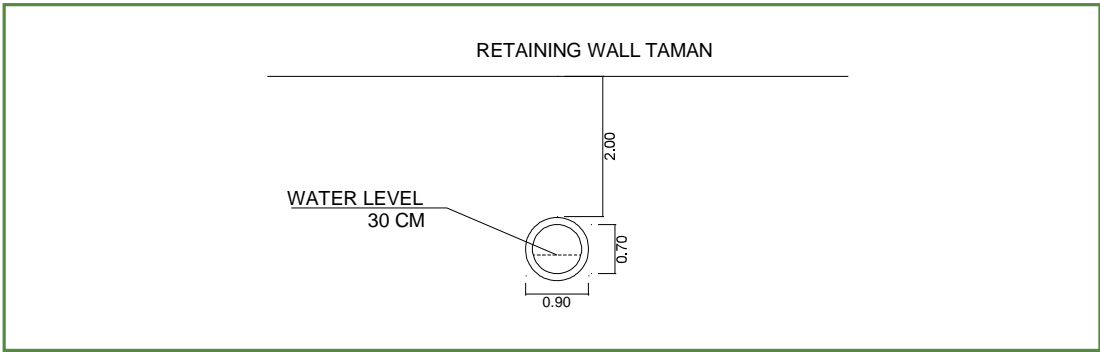
REPORT OF EXISTING DRAINAGE SYSTEM

DETAIL OF CULVERT - 1 (TAMBORA AREA-2)

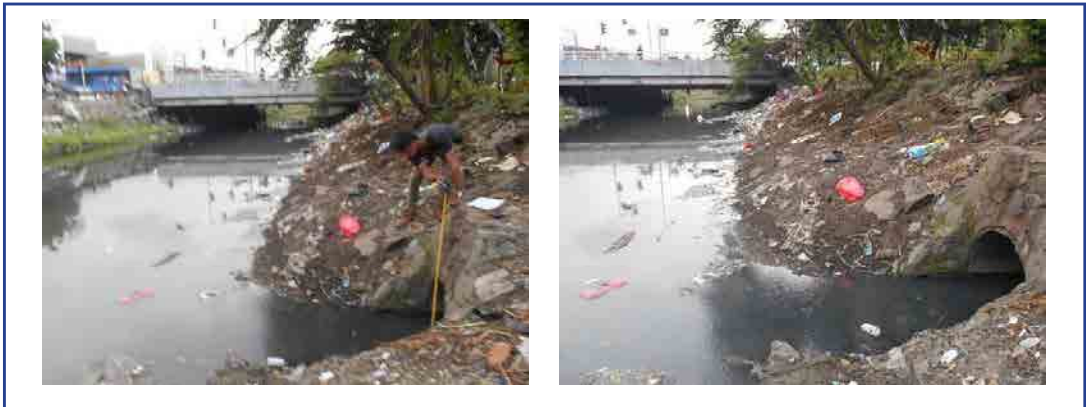
LAYOUT



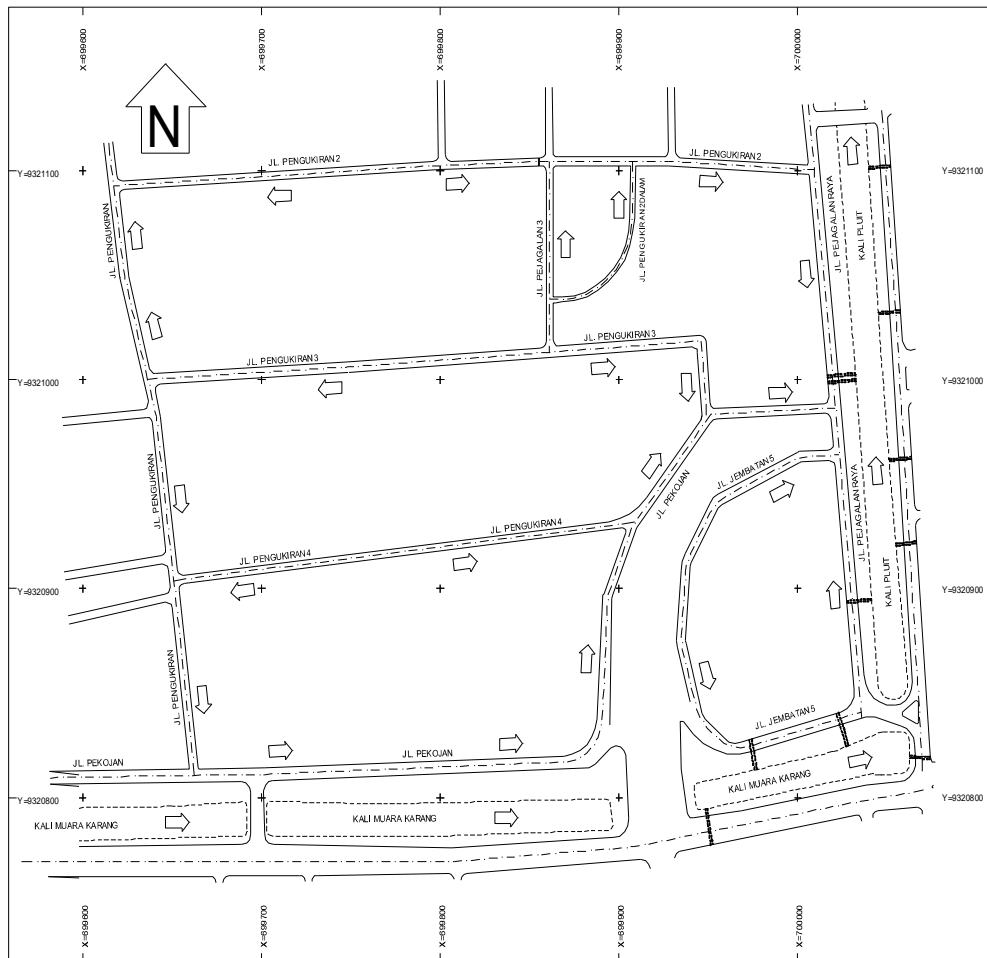
SKETCH



FOTO












DISTRICT MODEL TAMBORA AREA-3 (KEC. TAMBORA)



LIST OF ROAD

NO.	NAME	LENGTH	COORDINATE			
			START		END	
			X	Y	X	Y
1	JL PANGERANTUBAGUS ANGKE	435,00	703954,803	9321122,417	704385,663	9321156,637
2	JL LAKSA 1	265,00	704271,156	9320820,668	704019,455	9320794,894
3	JL LAKSA 2	320,00	704040,780	9321122,504	704061,992	9320809,053
4	JL LAKSA 3	200,00	704090,940	9320811,851	704049,926	9320976,248
5	JL LAKSA 4	315,00	704124,115	9321122,667	704163,683	9320818,291
6	JL LAKSA 5	115,00	704143,199	9320987,520	704253,481	9320992,297
7	JL KH MOCH MASMANSYUR	360,00	704238,282	9321132,147	704275,328	9320780,091
8	JL TAMBORA 6 DALAM	105,00	704250,879	9321016,237	704352,524	9321017,060
9	JL TAMBORA 5	275,00	704264,720	9320883,260	704496,268	9320918,622
10	JL TAMBORA 6	315,00	704498,247	9320964,458	704354,145	9321151,986

## MODEL DISTRICT SURVEY TABLE TAMBORA AREA -3 (KEC. TAMBORA)

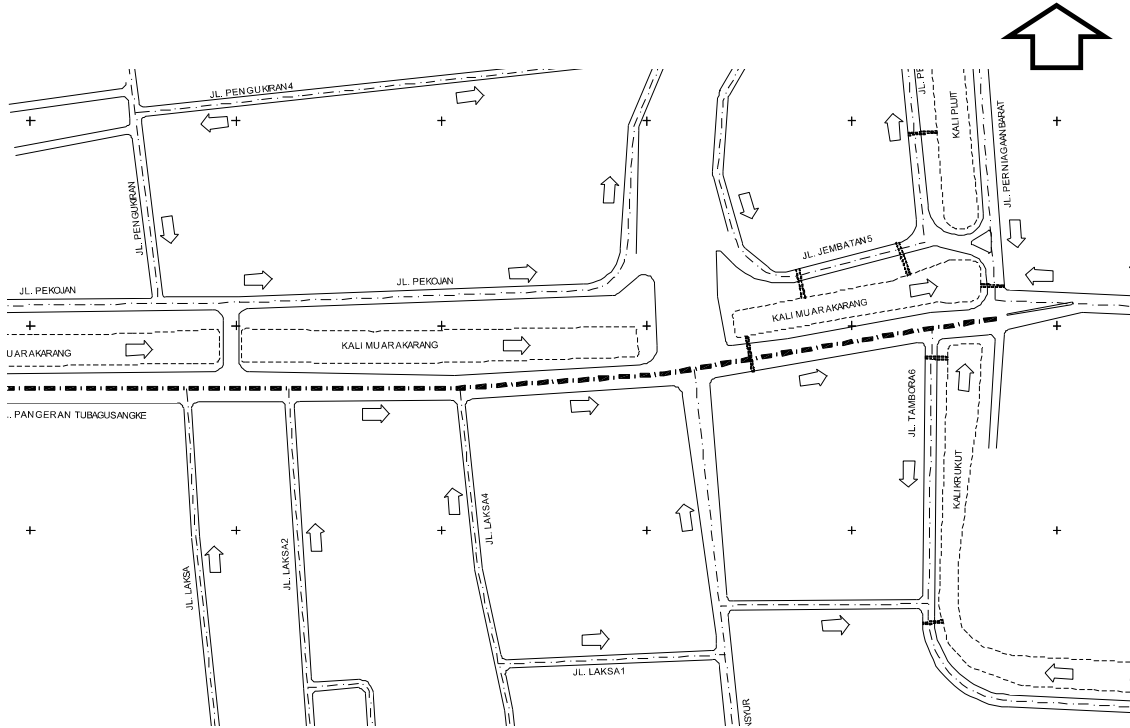
No.	Kelurahan	River Basin	Jalan	Structure					Condition		Remark
				Type	W Top / dia (m)	W Bottom (m)	H(m)	L(m)	Clogged	A	
1	TAMBORA	KALIMUARA KARANG	P. TUBAGUS ANGKE		1,00	1,00	1,00	435,00	Subsidy	C	hf = Depth of flow  (see encl. Fotograph)
2	TAMBORA	KALIMUARA KARANG	LAKSA 1		0,90	0,90	0,70	265,00	Subsidy	C	0,5
3	TAMBORA	KALIMUARA KARANG	LAKSA 2		0,90	0,90	0,70	320,00	Subsidy	C	0,5
4	TAMBORA	KALIMUARA KARANG	LAKSA 3		0,80	0,80	0,60	200,00	Clogged	A	0,4
5	TAMBORA	KALIMUARA KARANG	LAKSA 4		1,25	1,25	0,70	315,00	Clogged	A	0,2
6	TAMBORA	KALIMUARA KARANG	LAKSA 5		0,80	0,80	0,80	115,00	Clogged	A	0,5
7	TAMBORA	KALIMUARA KARANG	KH. MOCH. MAS MANSYUR		1,00	1,00	1,00	360,00	Subsidy	A	0,7
8	TAMBORA	KALIKRUKUT	TAMBORA 6 DA- LAM		0,80	0,80	0,80	105,00	Subsidy	B	0,6
9	TAMBORA	KALIKRUKUT	TAMBORA 5		0,90	0,90	0,80	275,00	Subsidy	C	0,6
10	TAMBORA	KALIKRUKUT	TAMBORA 6		0,50	0,50	1,20	315,00	-	C	0,3

# DISTRICT MODEL TAMBORA AREA 3 | KECAMATAN TAMBORA

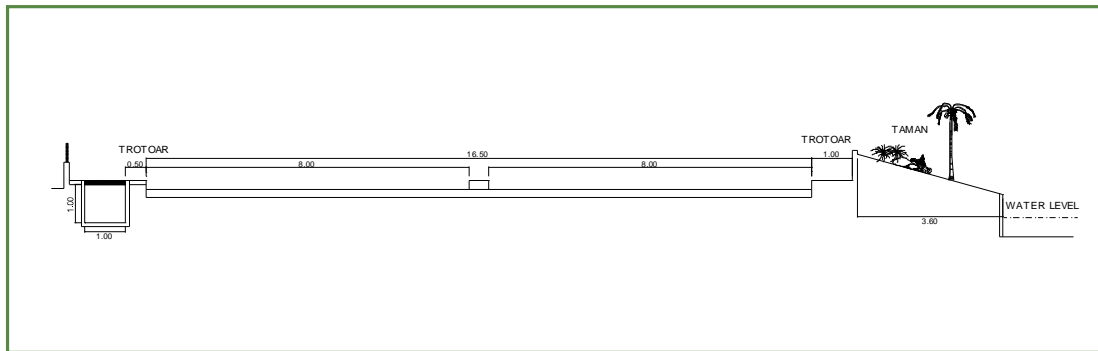


01. DETAIL OF JL. P. TUBAGUS ANGKE (TAMBORA AREA-3)

LAYOUT



SKETCH

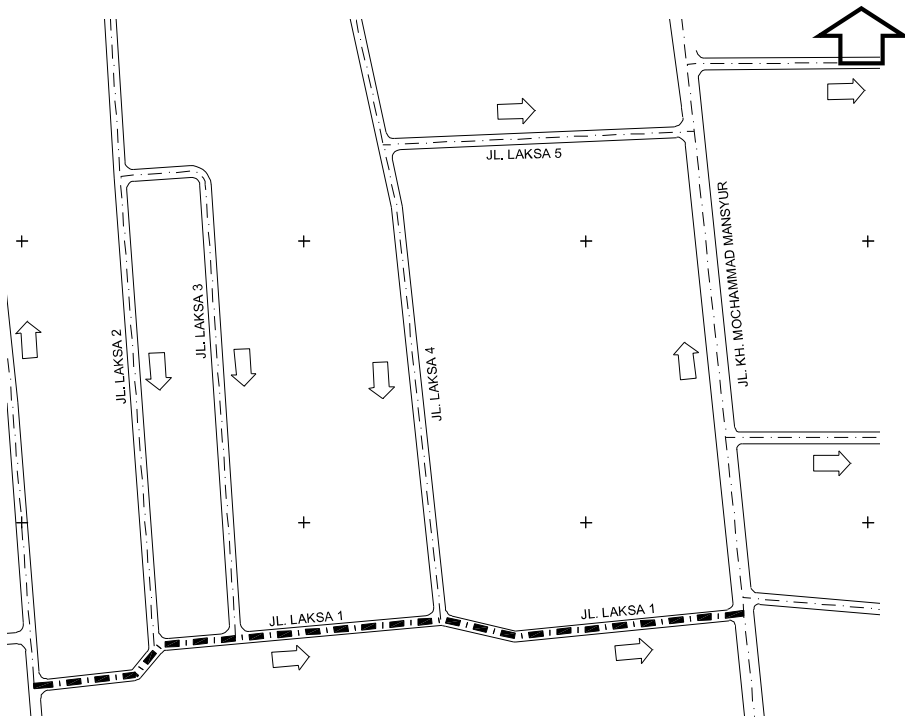


FOTO

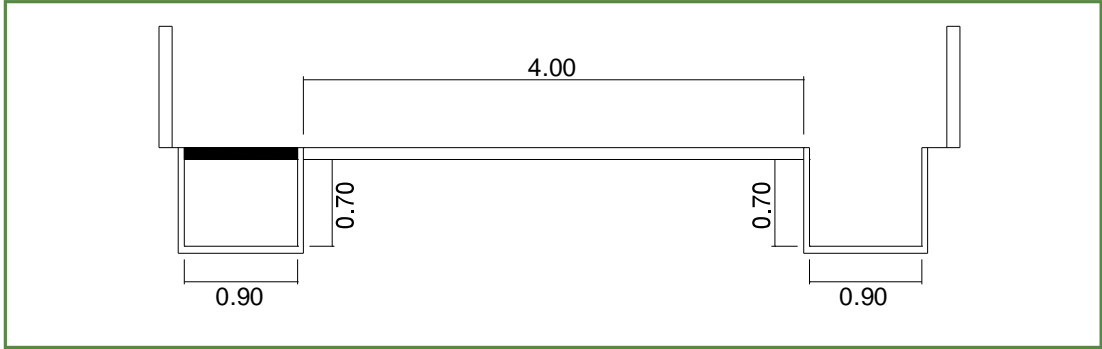


02. DETAIL OF JL. LAKSA 1 (TAMBORA AREA-3)

LAYOUT



SKETCH



FOTO

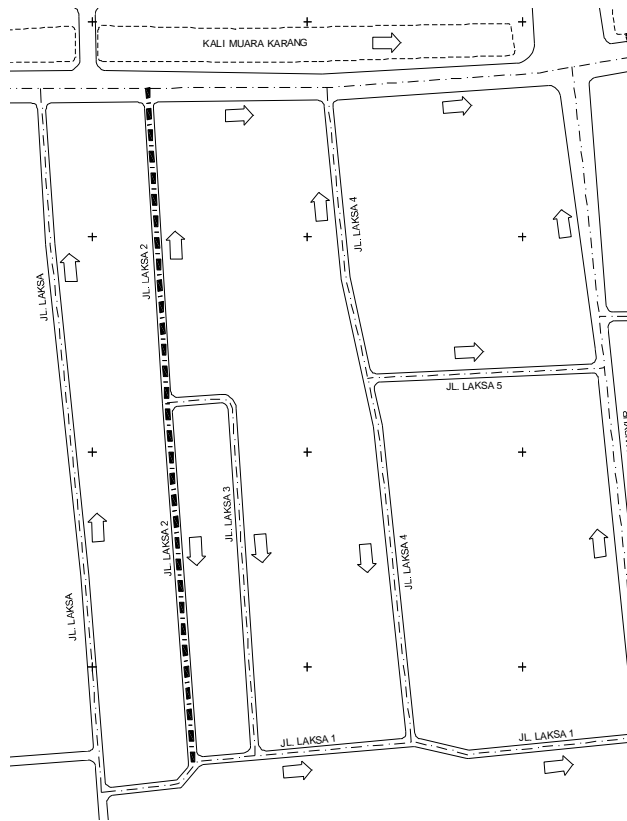


REPORT OF EXISTING DRAINAGE SYSTEM

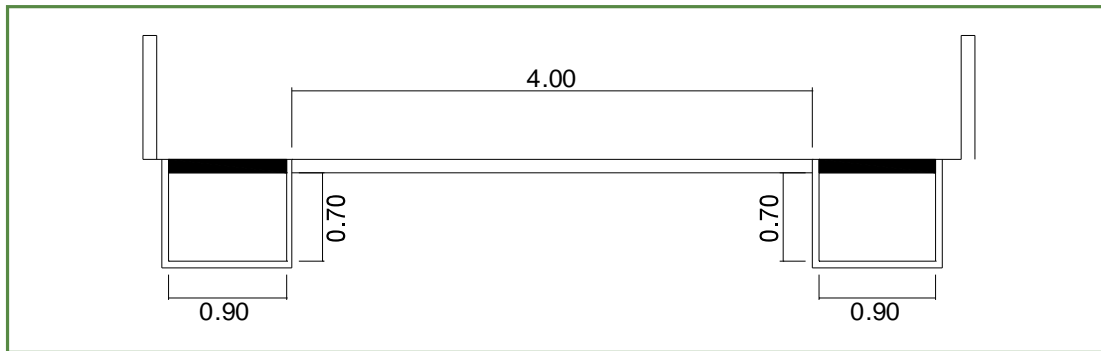


03. DETAIL OF JL LAKSA 2 (TAMBORA AREA-3)

LAYOUT



SKETCH

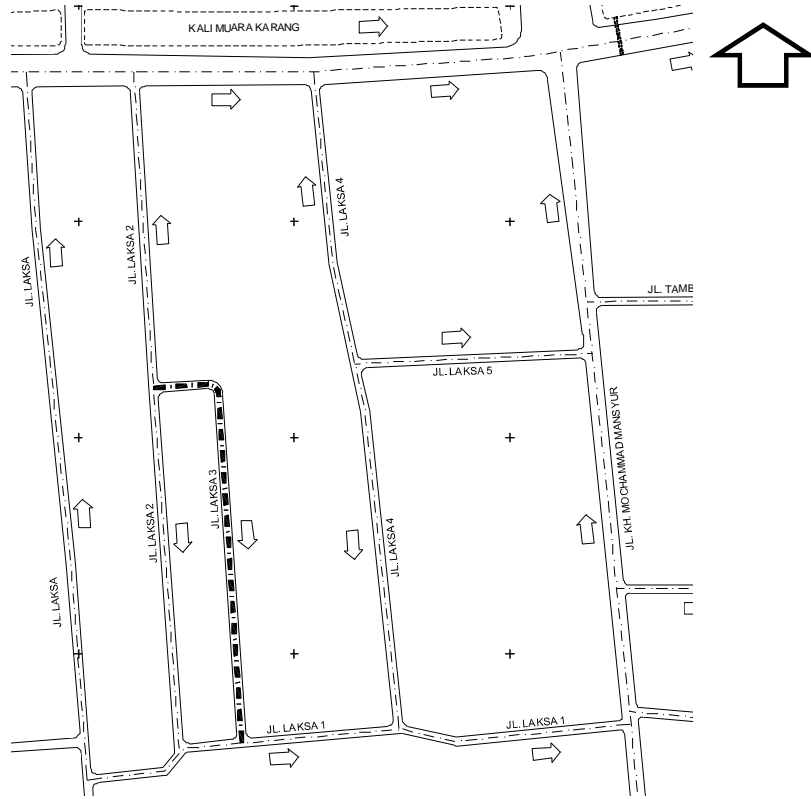


FOTO

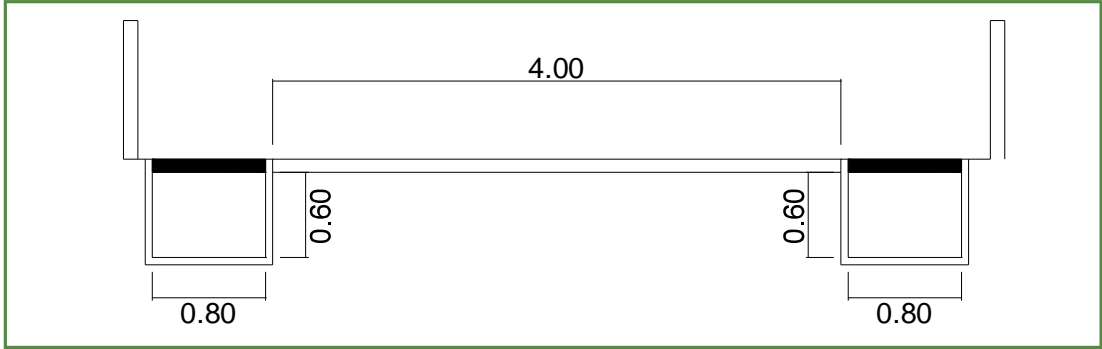


04. DETAIL OF JL. LAKSA 3 (TAMBORA AREA-3)

LAYOUT



SKETCH

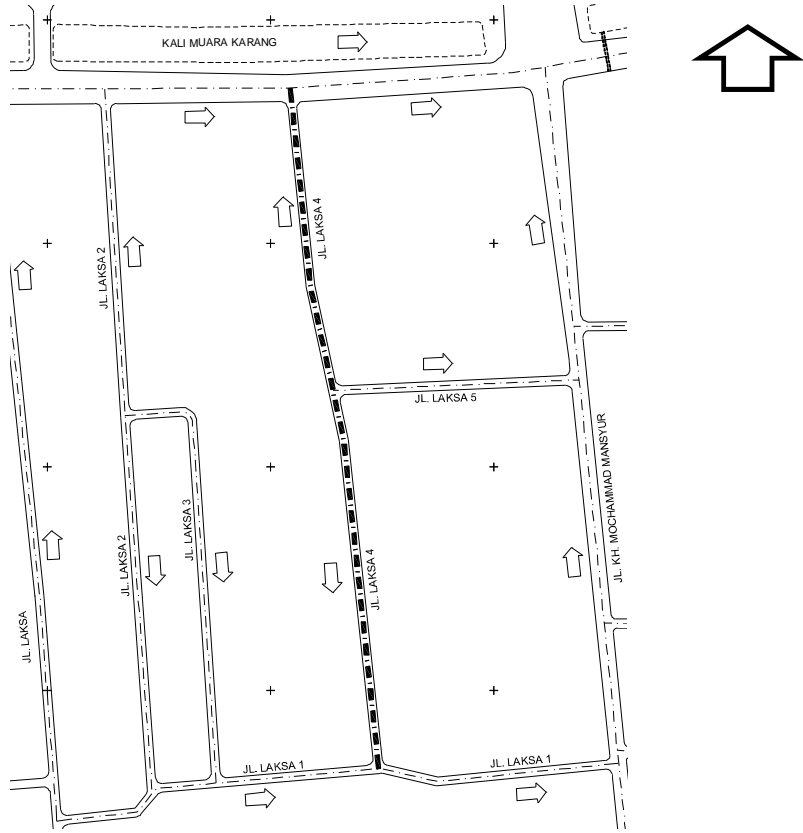


FOTO

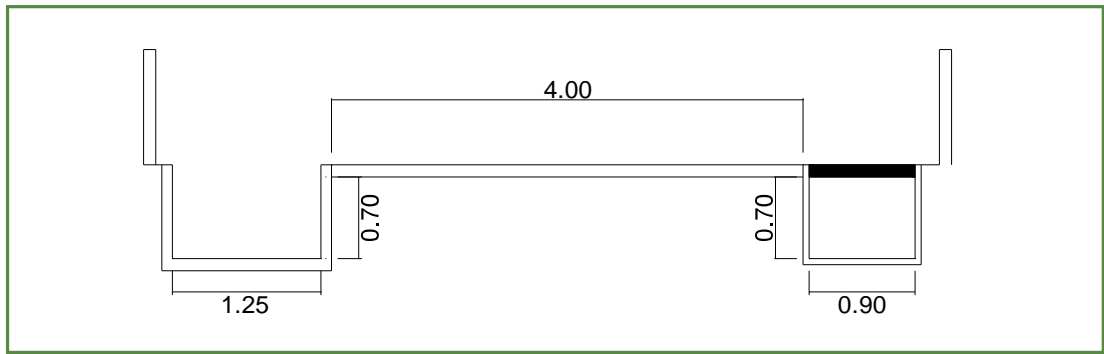


05. DETAIL OF JL LAKSA 4 (TAMBORA AREA-3)

LAYOUT



SKETCH

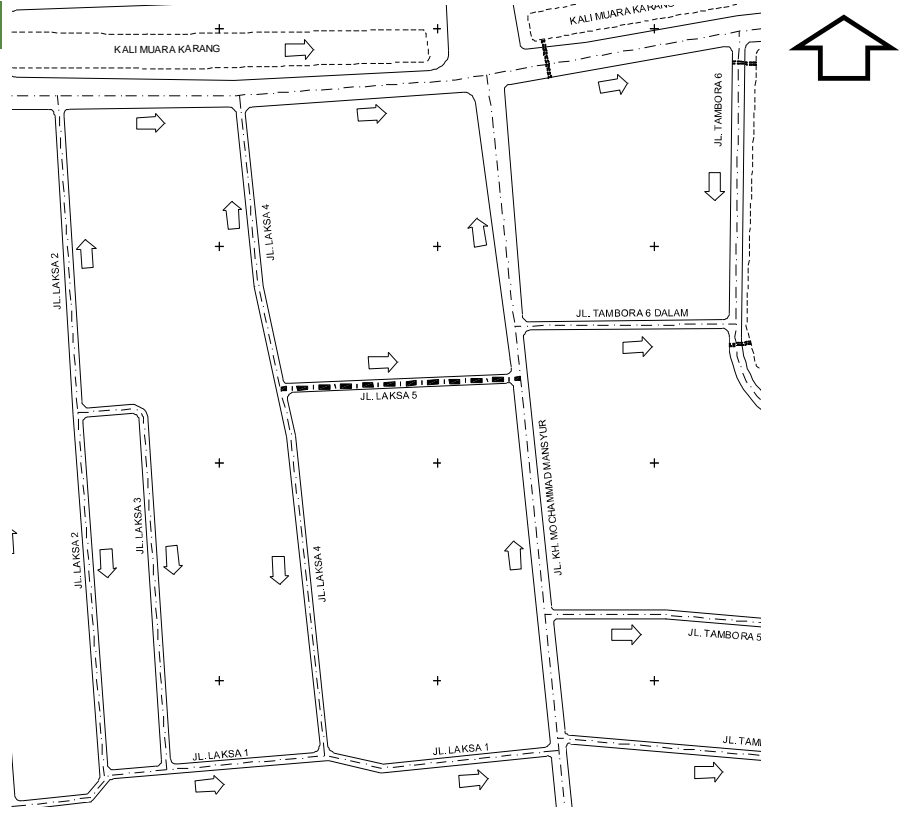


FOTO

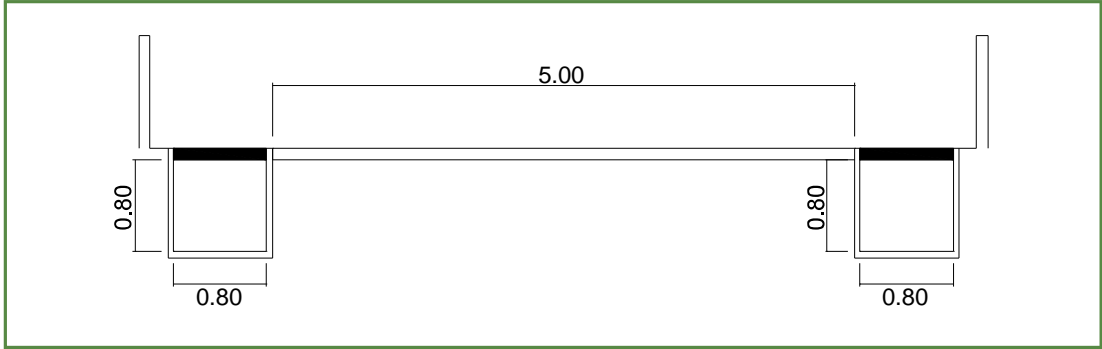


06. DETAIL OF JL. LAKSA 5 (TAMBORA AREA-3)

LAYOUT



SKETCH

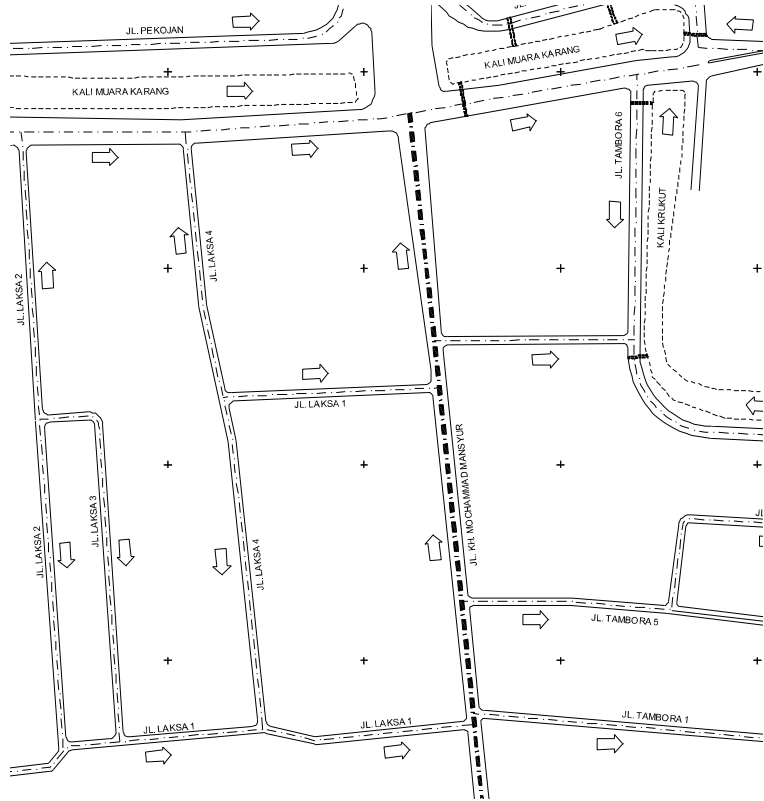


FOTO

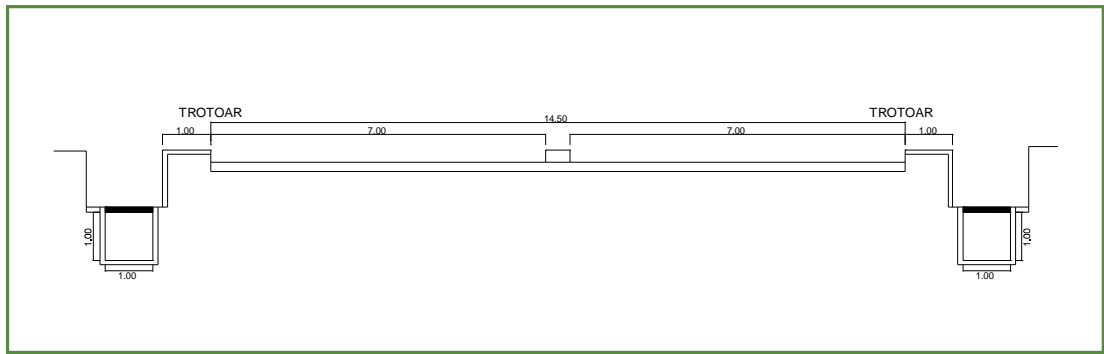


07. DETAIL OF JL. K. H. MAS MANSYUR (TAMBORA AREA-3)

LAYOUT



SKETCH

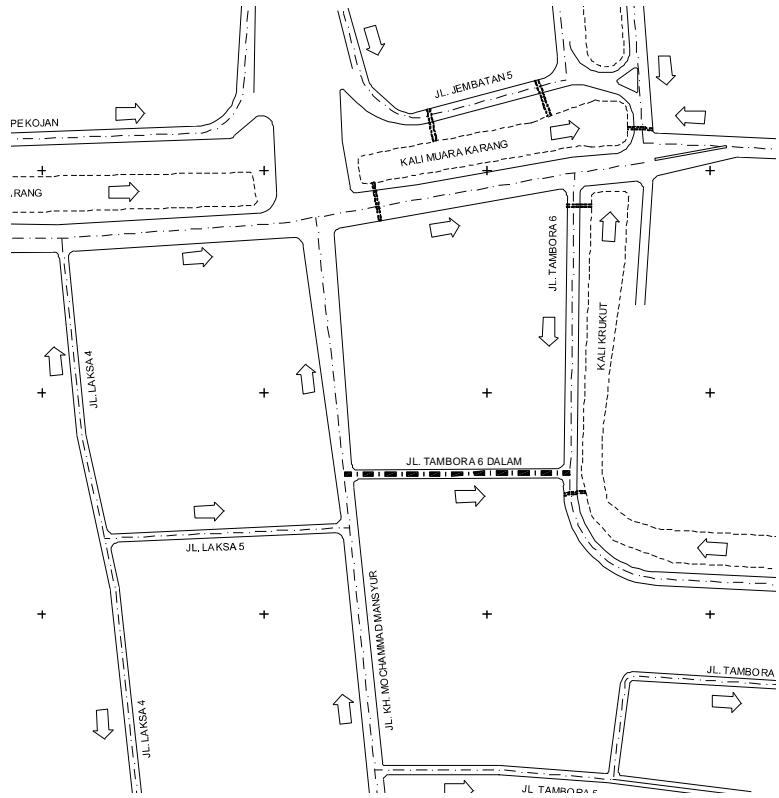


FOTO

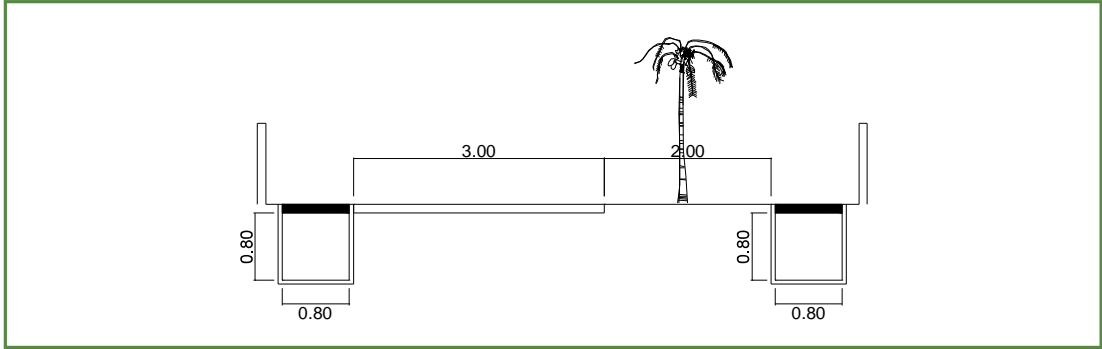


08. DETAIL OF JL. TAMBORA 6 DALAM (TAMBORA AREA-3)

LAYOUT



SKETCH



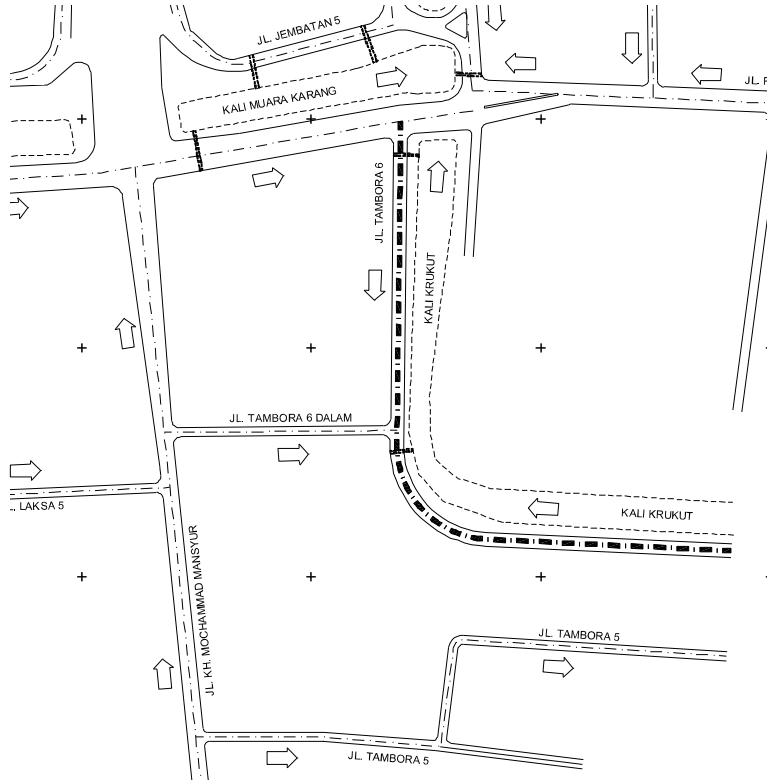
FOTO



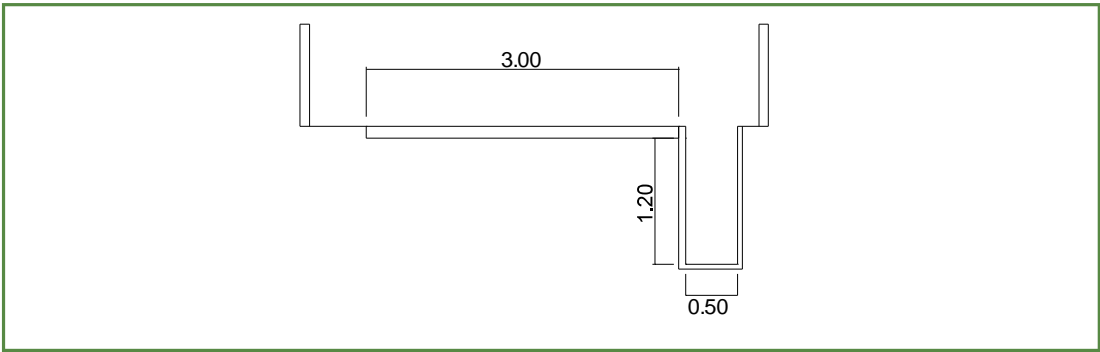
REPORT OF EXISTING DRAINAGE SYSTEM

10. DETAIL OF JALAN TAMBORA 6 (TAMBORA AREA-3)

LAYOUT



SKETCH



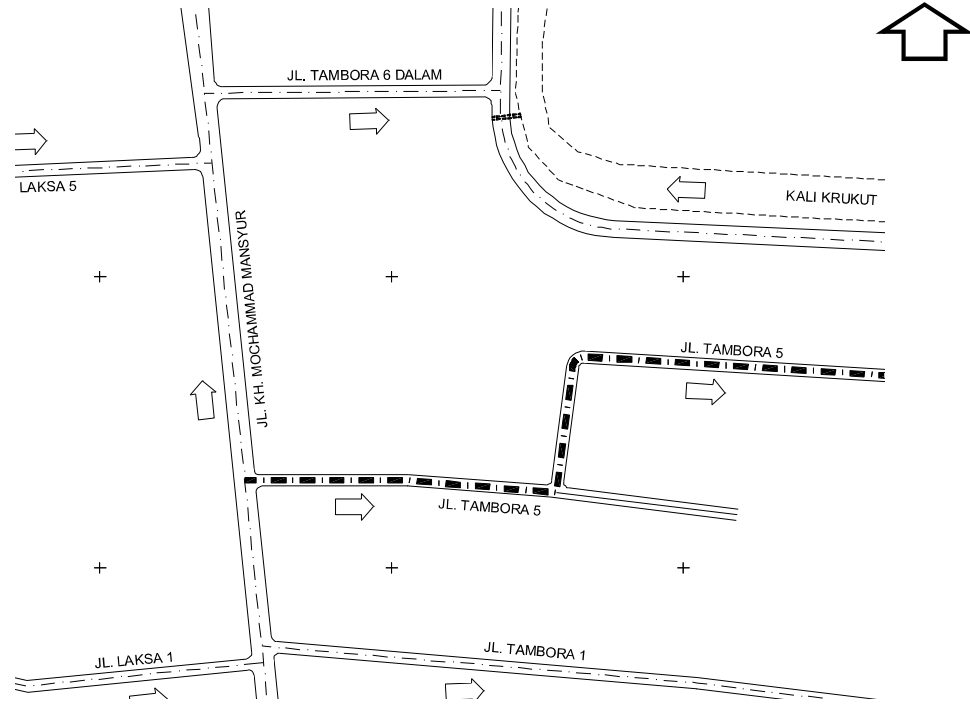
FOTO



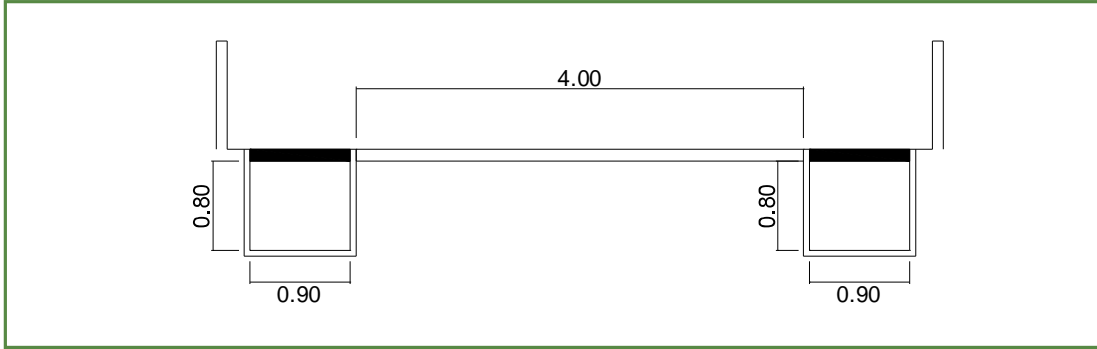


09. DETAIL OF JL. TAMBORA 5 (TAMBORA AREA-3)

LAYOUT



SKETCH



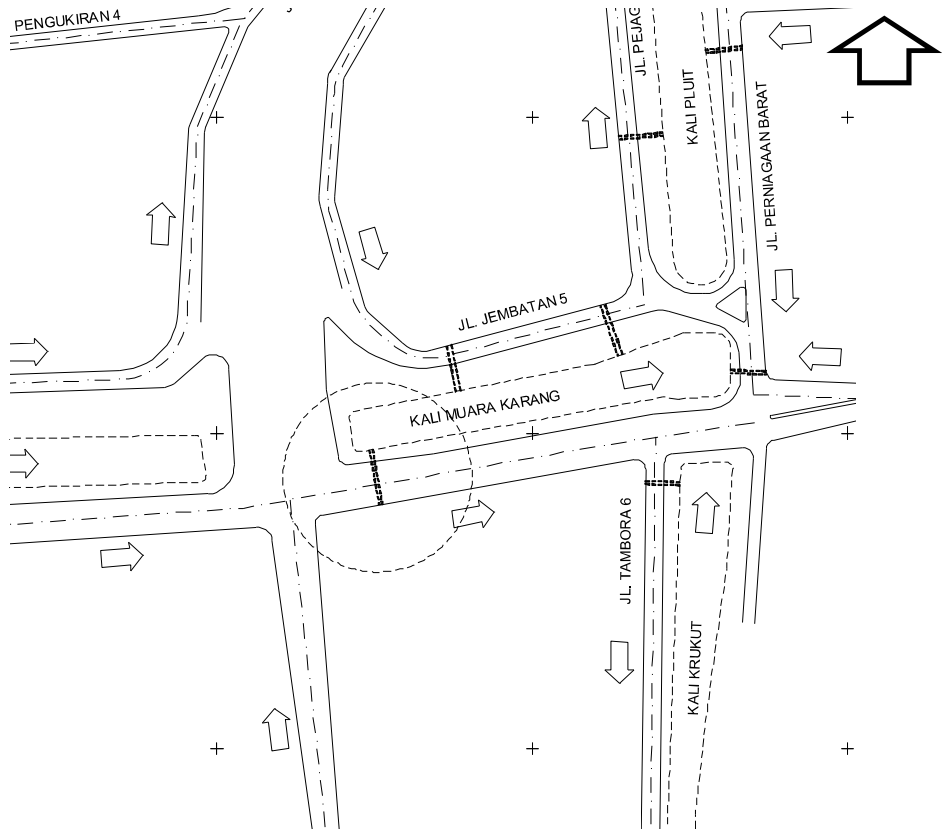
FOTO



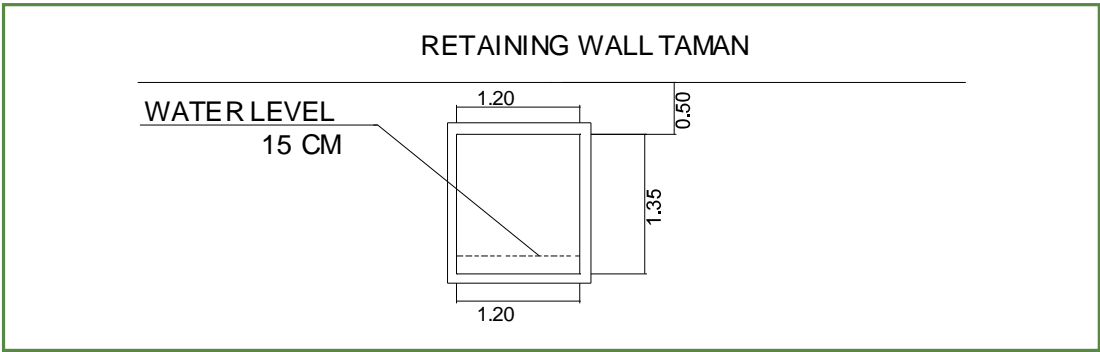
REPORT OF EXISTING DRAINAGE SYSTEM

DETAIL OF BOX CULVERT - 1 (TAMBORA AREA-3)

LAYOUT



SKETCH

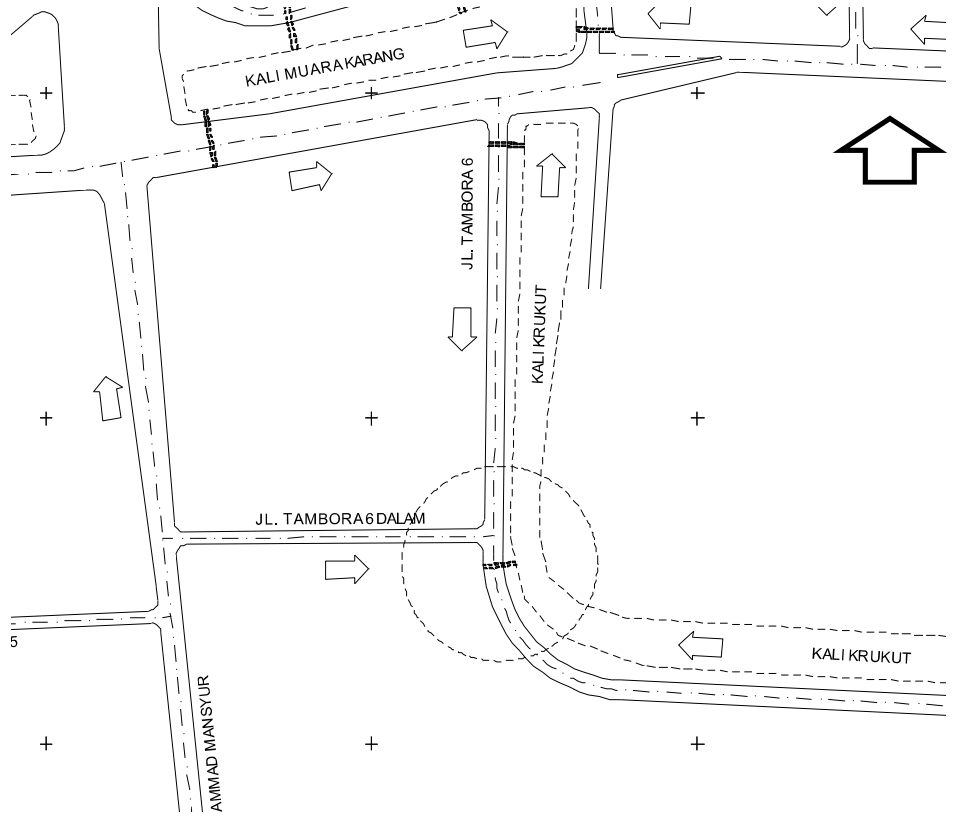


FOTO

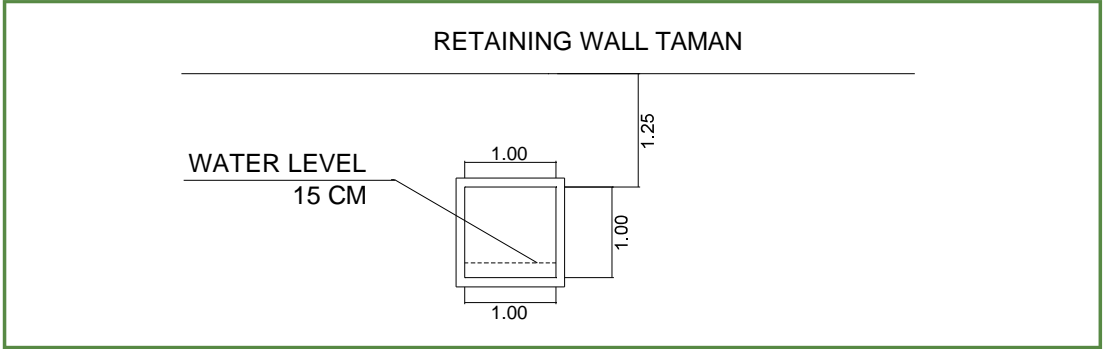


DETAIL OF BOX CULVERT - 2 (TAMBORA AREA-3)

LAYOUT



SKETCH



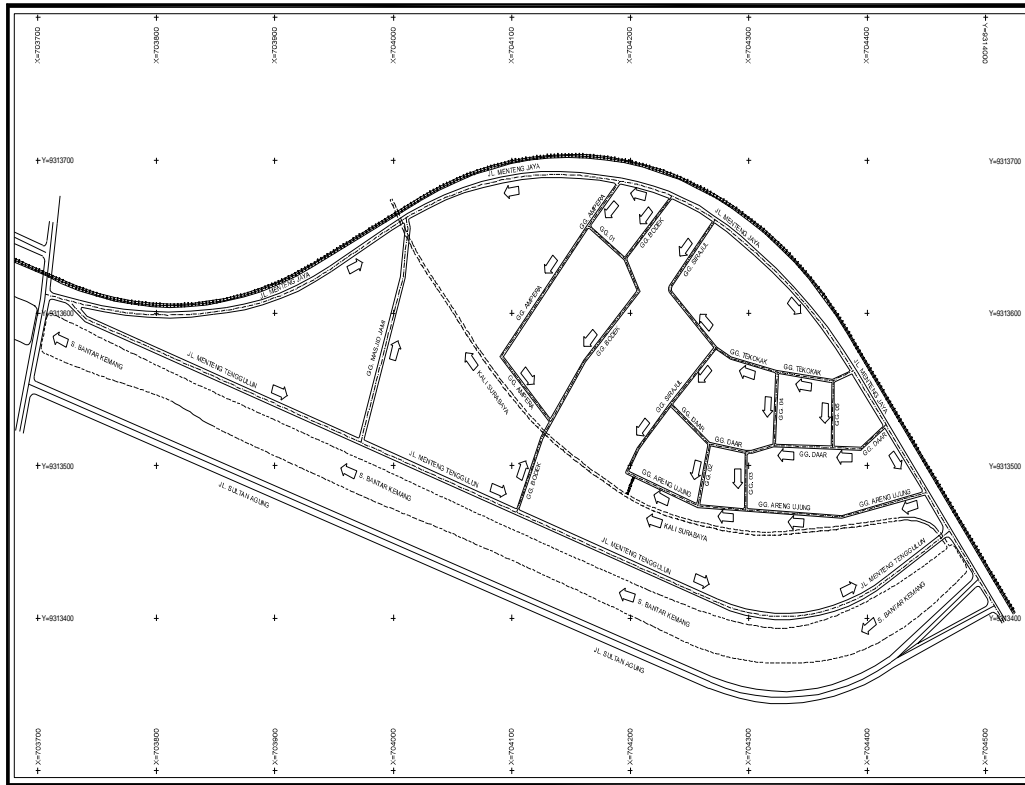
FOTO



REPORT OF EXISTING DRAINAGE SURVEY

## d. District Model Menteng Kecamatan Menteng

## DISTRICT MODEL MENTENG AREA-1 (KEC. MENTENG)

















REPORT OF EXISTING DRAINAGE SURVEY

NO.	NAME	LENGTH	COORDINATE			
			START		END	
			X	Y	X	Y
1	JL. MENTENG JAYA	955,00	705057,392	9313612,677	705866,690	9313397,851
2	JL. MENTENG TENGGULUN	795,00	705820,789	9313457,364	705079,571	9313606,277
3	GG. ARENG UJUNG	260,00	705801,342	9313482,577	705548,946	9313495,573
4	GG. DAAR	200,00	705767,026	9313527,069	705585,326	9313540,384
5	GG. TEKOKAK	125,00	705739,734	9313562,437	705623,351	9313577,406
6	GG. SIRAJUL	230,00	705548,850	9313495,849	705622,895	9313661,566
7	GG. BODREK	265,00	705586,766	9313677,081	705455,346	9313469,679
8	GG. AMPERA	215,00	705542,769	9313686,878	705484,084	9313529,119
9	GG. MASJID JAMI	160,00	703972,503	9313515,581	704010,620	9313662,792
10	GG.01	40,00	705546,838	9313635,842	705515,952	9313657,498
11	GG.02	45,00	705608,275	9313473,762	705617,976	9313514,367
12	GG.03	40,00	705648,978	9313509,393	705648,646	9313471,143
13	GG.04	50,00	704321,556	9313513,359	704323,944	9313561,622
14	GG.05	50,00	704371,272	9313556,04	704370,941	9313511,949

# DISTRICT MODEL MENTENG AREA 1 | KECAMATAN MENTENG



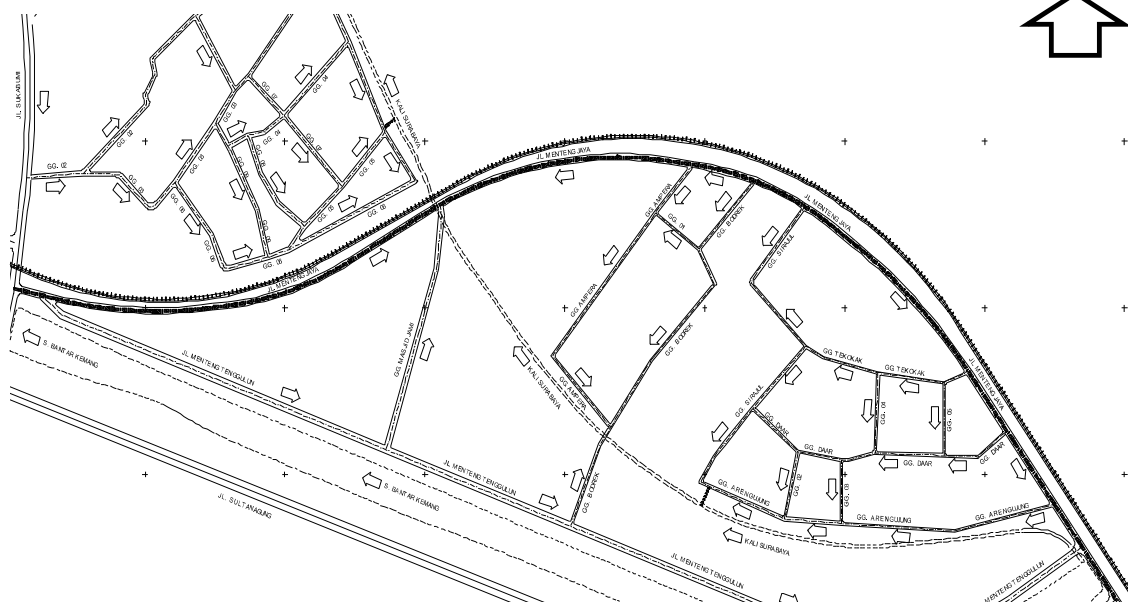
## MODEL DISTRICT SURVEY TABLE MENTENG AREA -1 (KEC. TAMBORA)

No.	Kelurahan	River Basin	Jalan	Structure					Condition		Remark
				Type	W Top / dia (m)	W Bottom (m)	H (m)	L (m)	Clogged	A	
1	MENTENG	KALISURABAYA	MENTENG JAYA		0,60	0,50	0,55	955,00	Subsidy	B/C	hf = Depth of flow
2	MENTENG	KALISURABAYA	MENTENG TENGGULUN		0,60	0,50	0,50	795,00	Subsidy	B/C	(see encl. Photograph)
3	MENTENG	KALISURABAYA	GG. ARENG UJUNG		0,60	0,60	0,70	260,00	Subsidy	B/C	0,6
4	MENTENG	KALISURABAYA	GG. DAAR		0,60	0,60	0,60	200,00	Subsidy	B/C	0,4
5	MENTENG	KALISURABAYA	GG. TEKOKAK		0,75	0,65	0,50	125,00	Subsidy	B/C	0,15
6	MENTENG	KALISURABAYA	GG. SIROJUL		0,60	0,50	0,50	230,00	Failed/Subsidy	B/C	0,2
7	MENTENG	KALISURABAYA	GG. BODREK		0,60	0,50	0,50	265,00	Subsidy	B/C	0,15
8	MENTENG	KALISURABAYA	GG. AMPERA		0,60	0,50	0,50	215,00	Subsidy	B/C	0,15
9	MENTENG	KALISURABAYA	GG. MASJID JAMI		0,70	0,60	0,50	160,00	Subsidy	B/C	0,15
10	MENTENG	KALISURABAYA	GG. 01		0,50	0,40	0,50	40,00	Subsidy	B/C	0,2
11	MENTENG	KALISURABAYA	GG. 02		0,50	0,50	0,50	45,00	Subsidy	B/C	0,3
12	MENTENG	KALISURABAYA	GG. 03		0,50	0,50	0,50	40,00	Subsidy	B/C	0,4
13	MENTENG	KALISURABAYA	GG. 04		0,50	0,40	0,50	50,00	Subsidy	B/C	0,2
14	MENTENG	KALISURABAYA	GG. 05		0,50	0,40	0,50	50,00	Subsidy	B/C	0,2

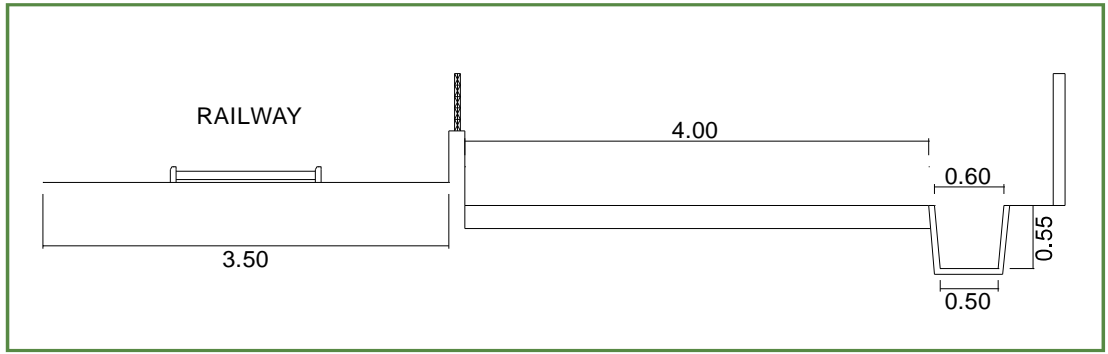


### 01. DETAIL OF JL. MENTENG JAYA (AREA MENTENG 1)

#### LAYOUT



#### SKETCH



#### FOTO

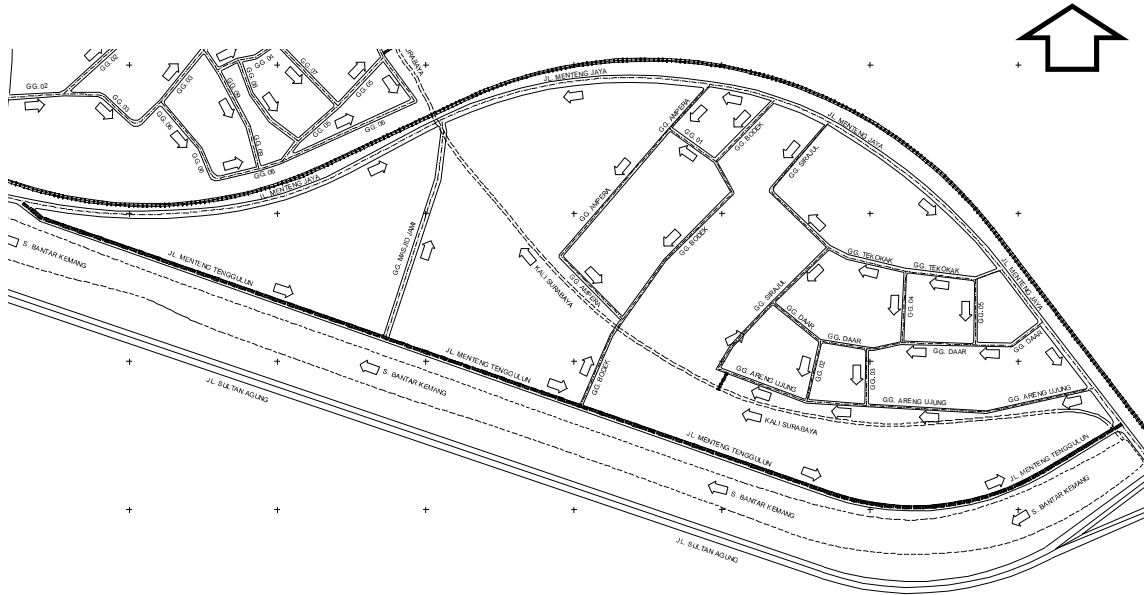


REPORT OF EXISTING DRAINAGE SYSTEM

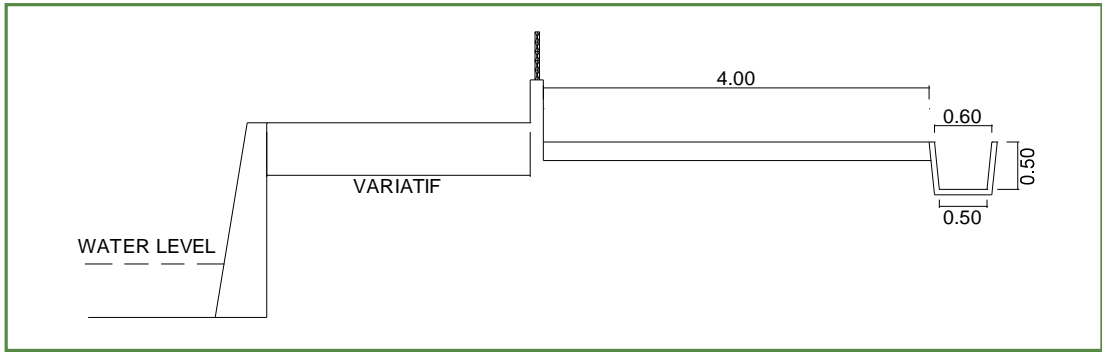


02. DETAIL OF JL. MENTENG TENGGULUN (MENTENG AREA 1)

LAYOUT



SKETCH

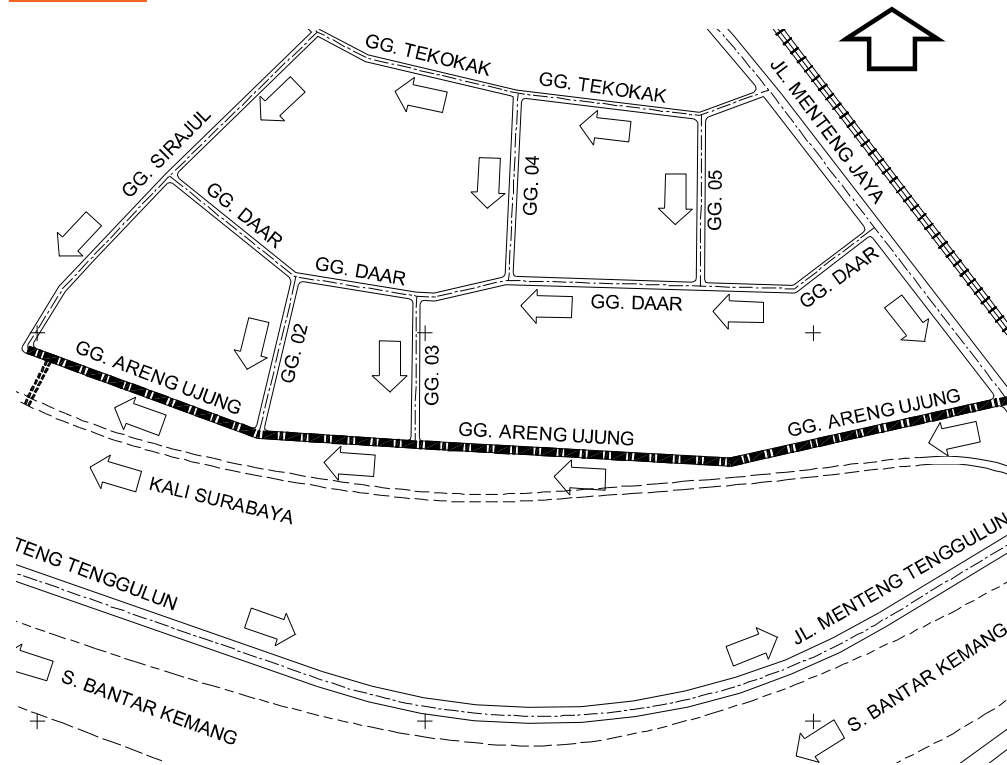


FOTO

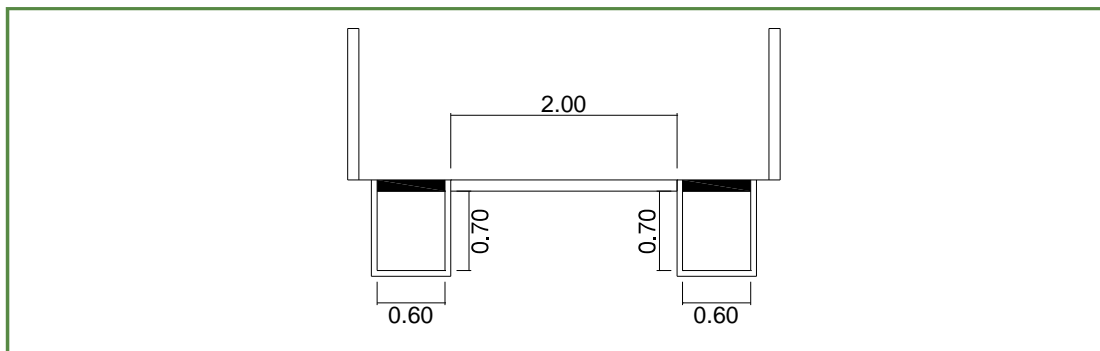


03. DETAIL OF GG. ARENG UJUNG (MENTENG AREA 1)

LAYOUT



SKETCH



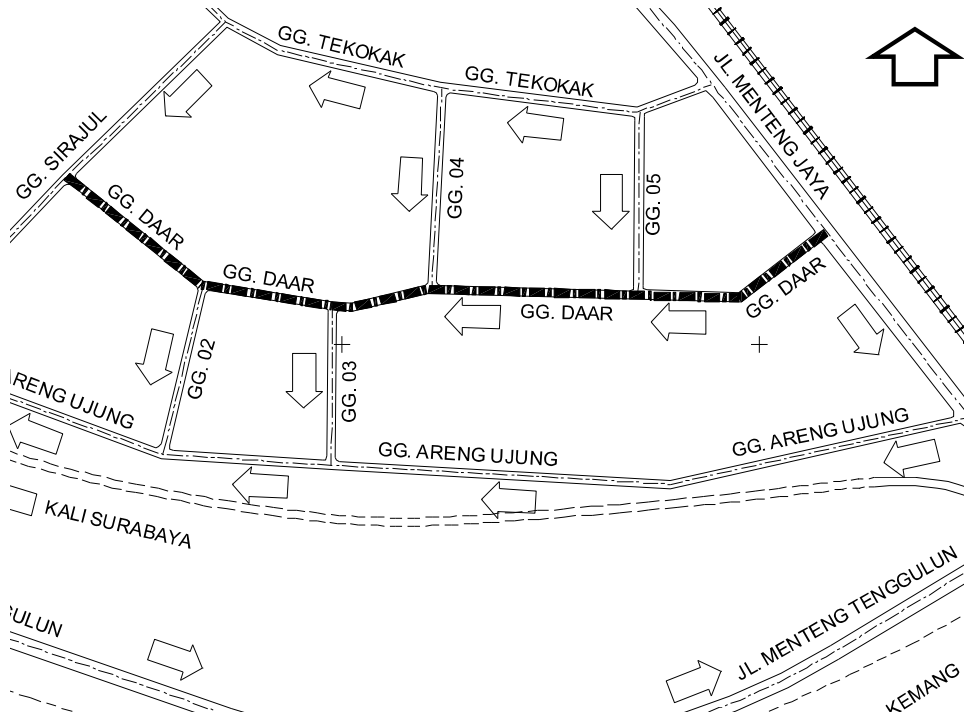
FOTO



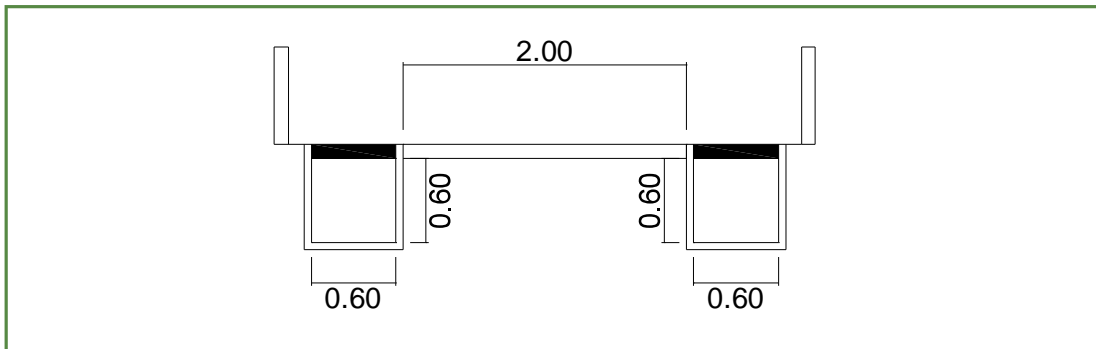
REPORT OF EXISTING DRAINAGE SYSTEM

04. DETAIL OF GG. DAAR (MENTENG AREA 1)

LAYOUT



SKETCH

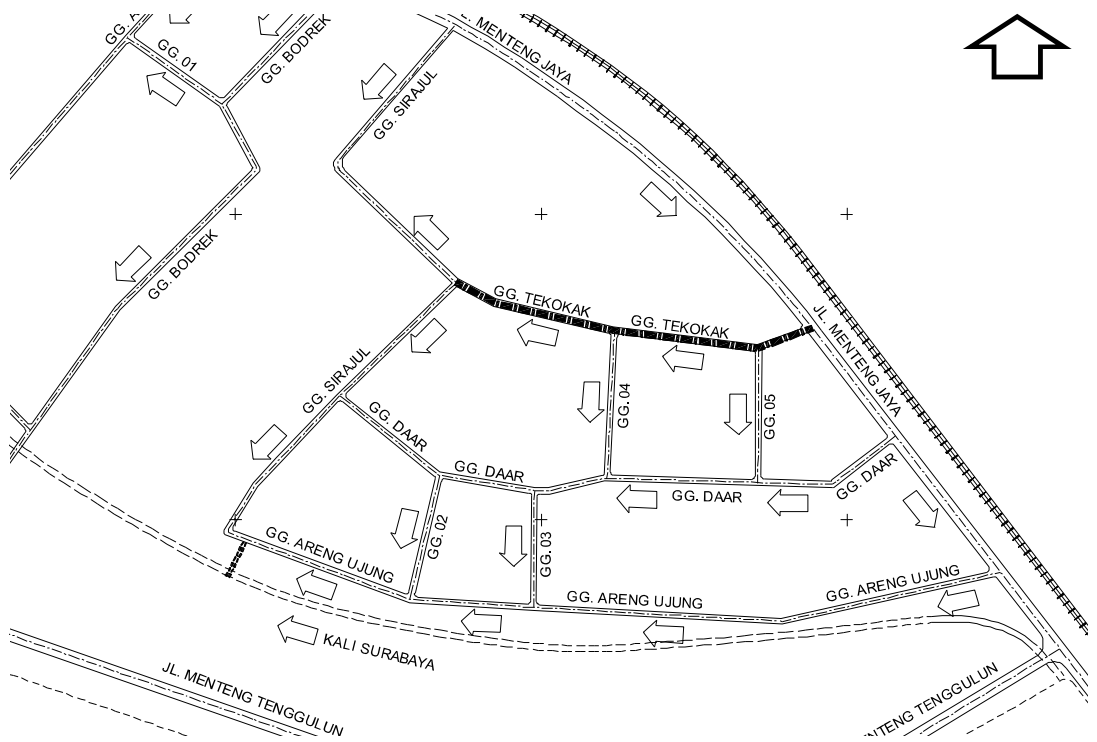


FOTO

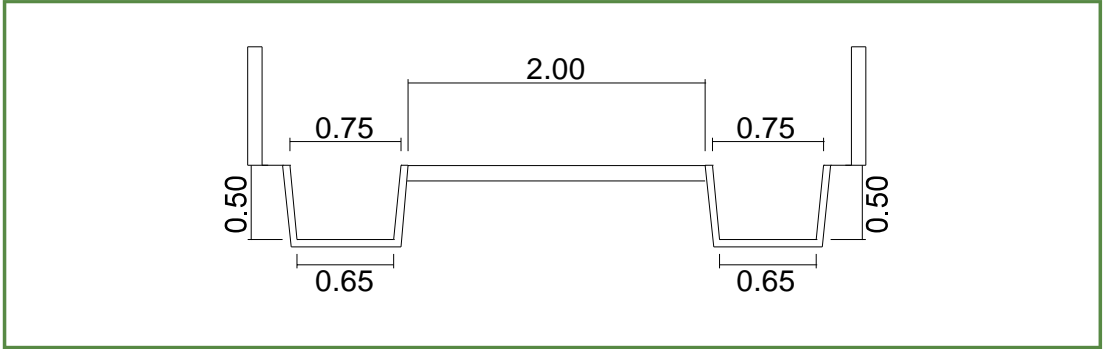


05. DETAIL OF GG. TEKOKAK (MENTENG AREA 1)

LAYOUT



SKETCH



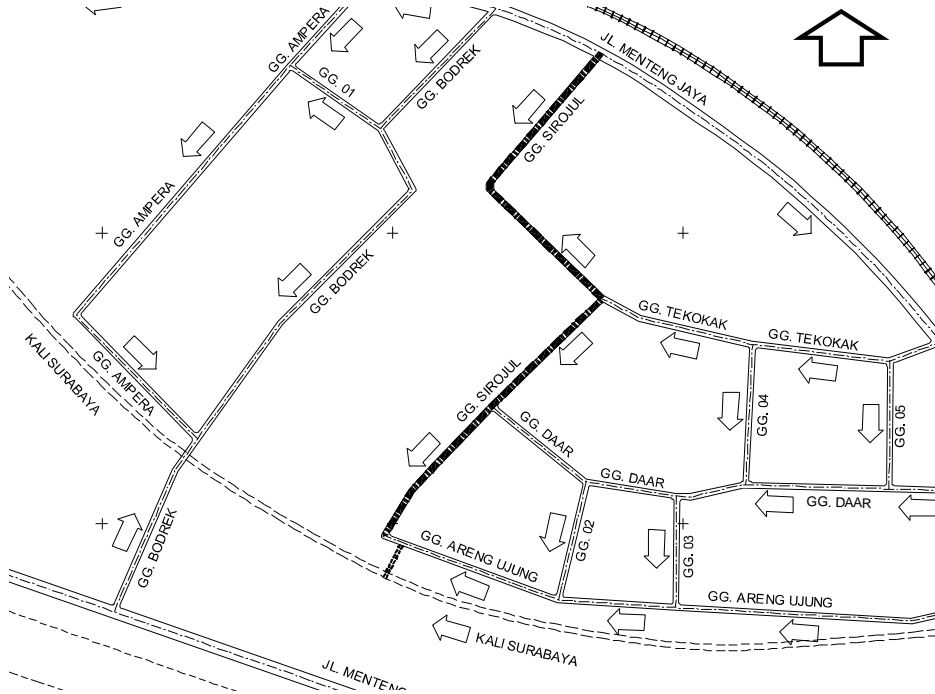
FOTO



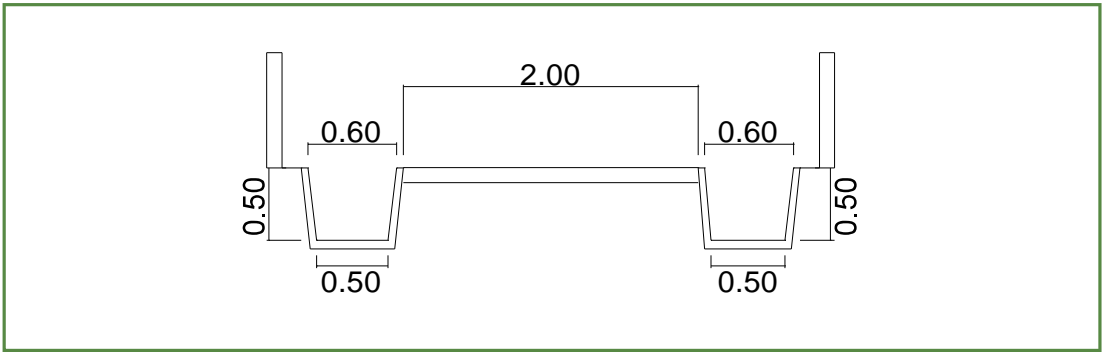
REPORT OF EXISTING DRAINAGE SYSTEM

06. DETAIL OF GG. SIROJUL (MENTENG AREA 1)

LAYOUT



SKETCH

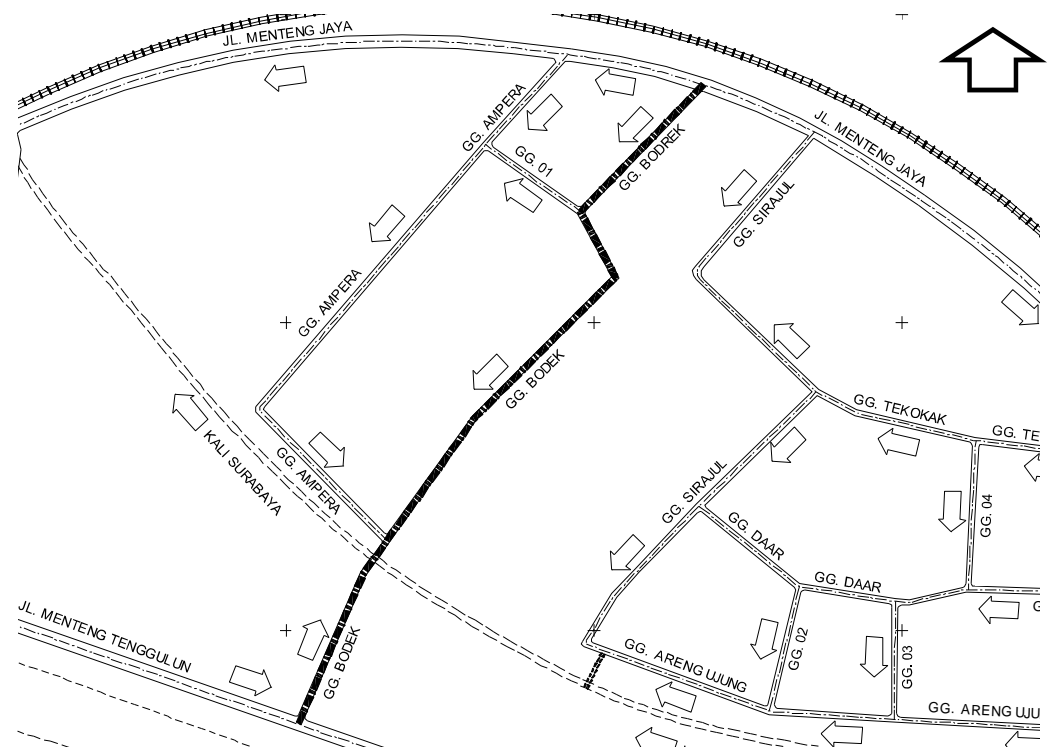


FOTO

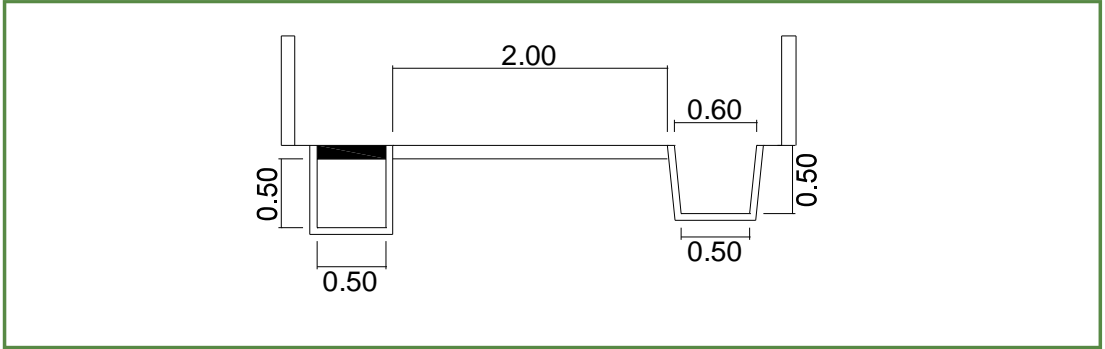


07. DETAIL OF GG. BODREK (MENTENG AREA 1)

LAYOUT



SKETCH



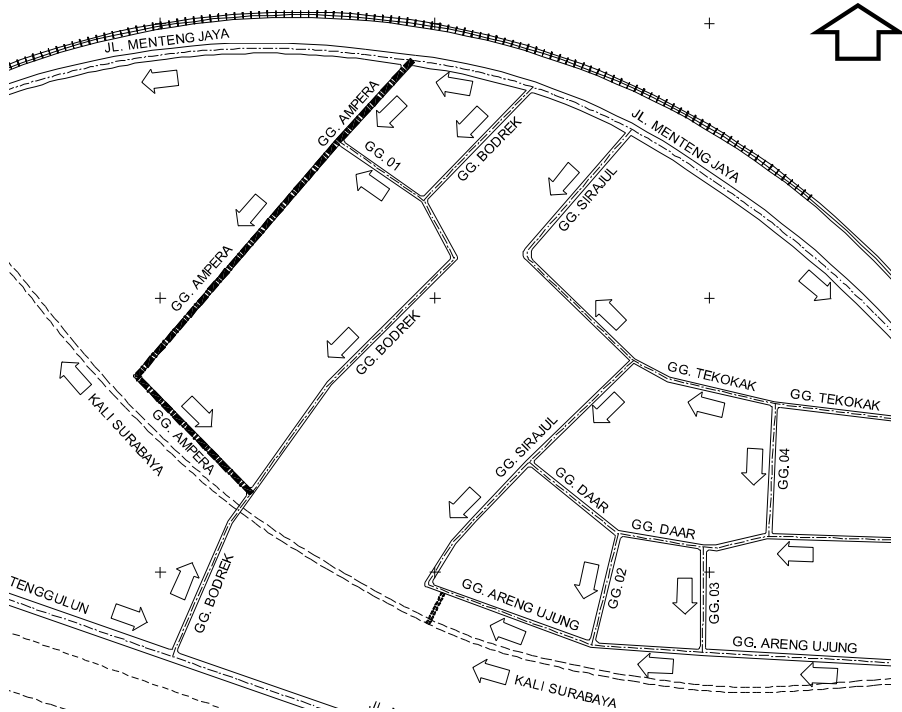
FOTO



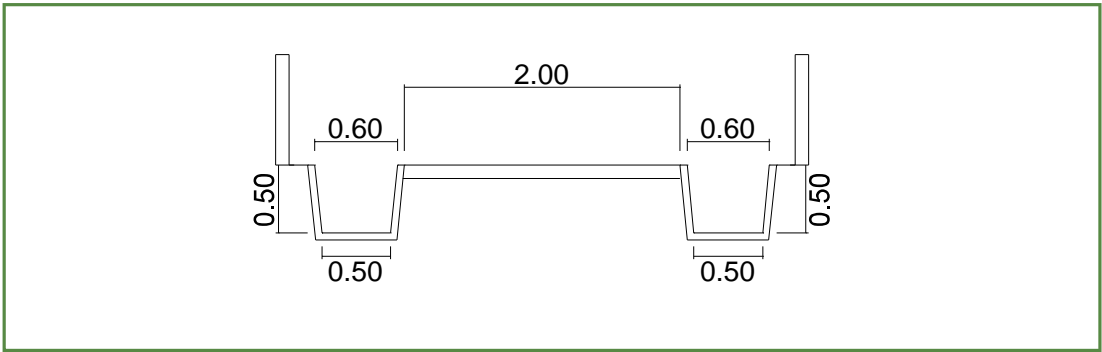


08. DETAIL OF GG. AMPERA (MENTENG AREA 1)

LAYOUT



SKETCH



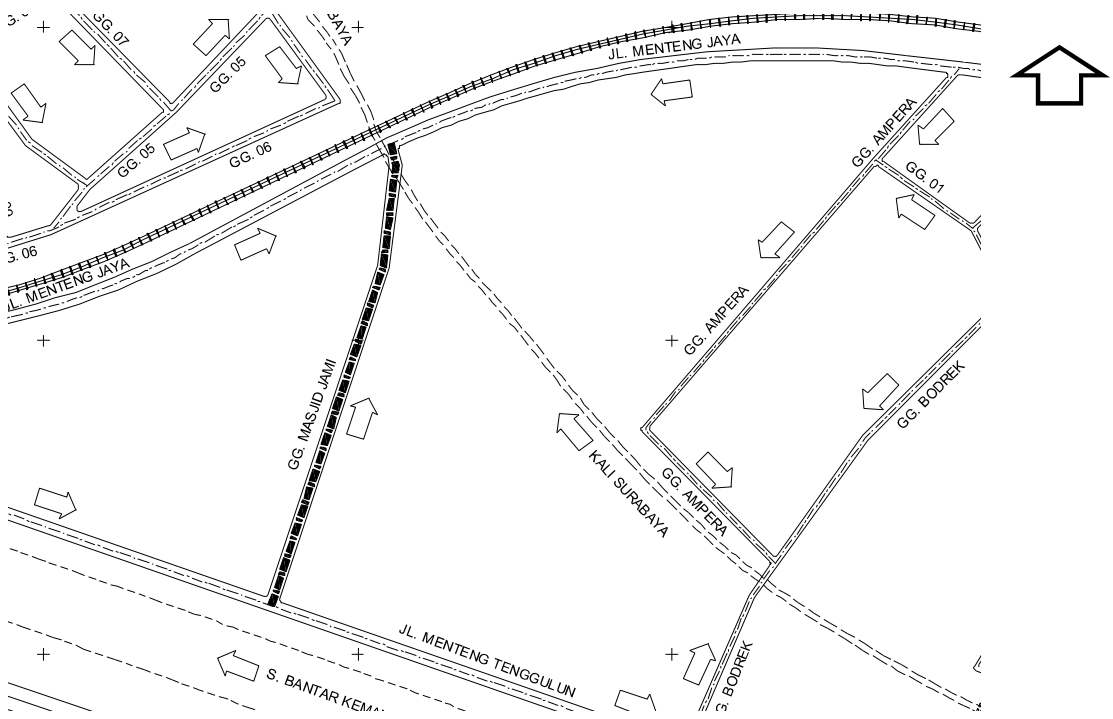
FOTO



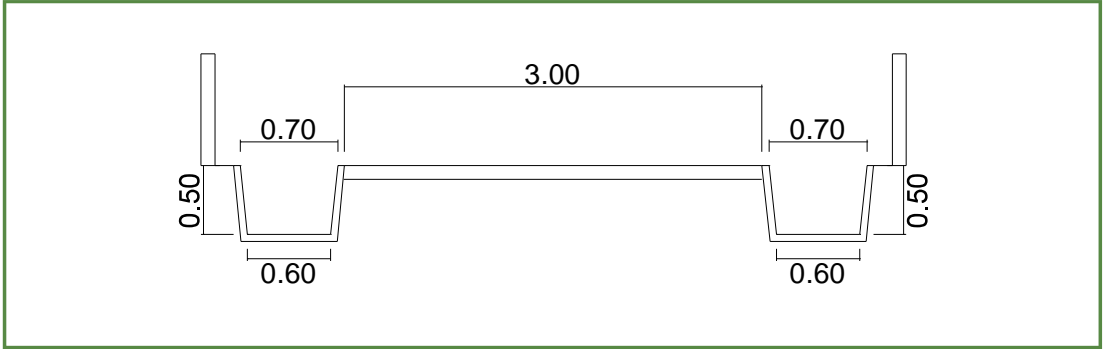


09. DETAIL OF GG. MASJID JAMI (MENTENG AREA 1)

LAYOUT



SKETCH



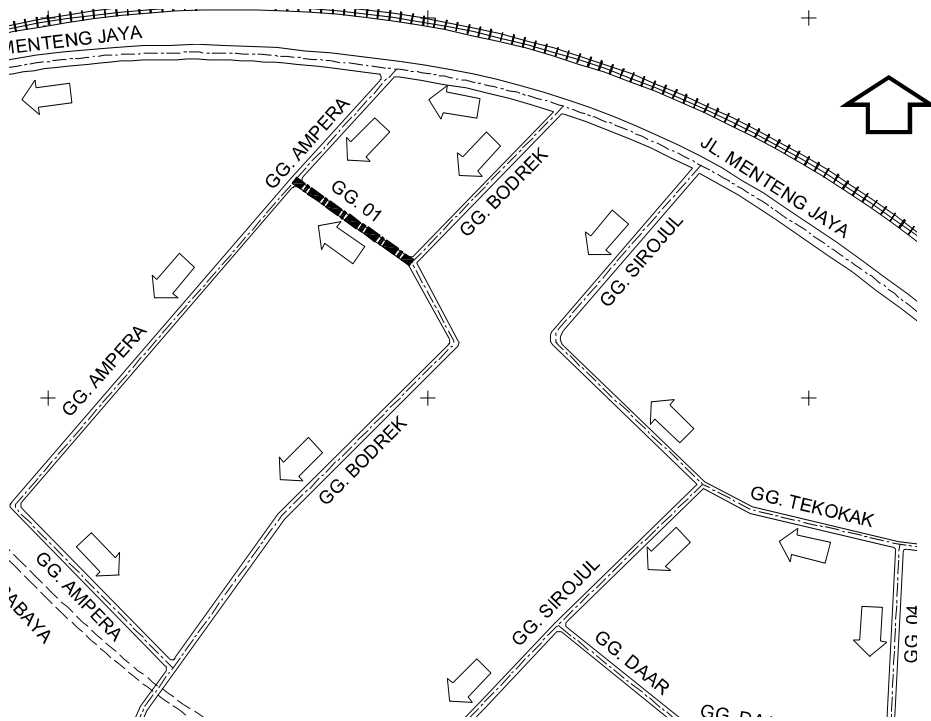
FOTO



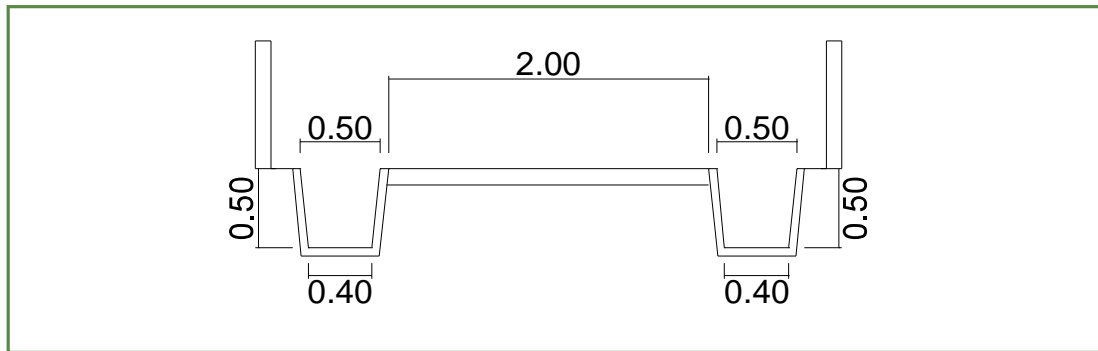
REPORT OF EXISTING DRAINAGE SYSTEM

10. DETAIL OF GG. 01 (MENTENG AREA 1)

LAYOUT



SKETCH

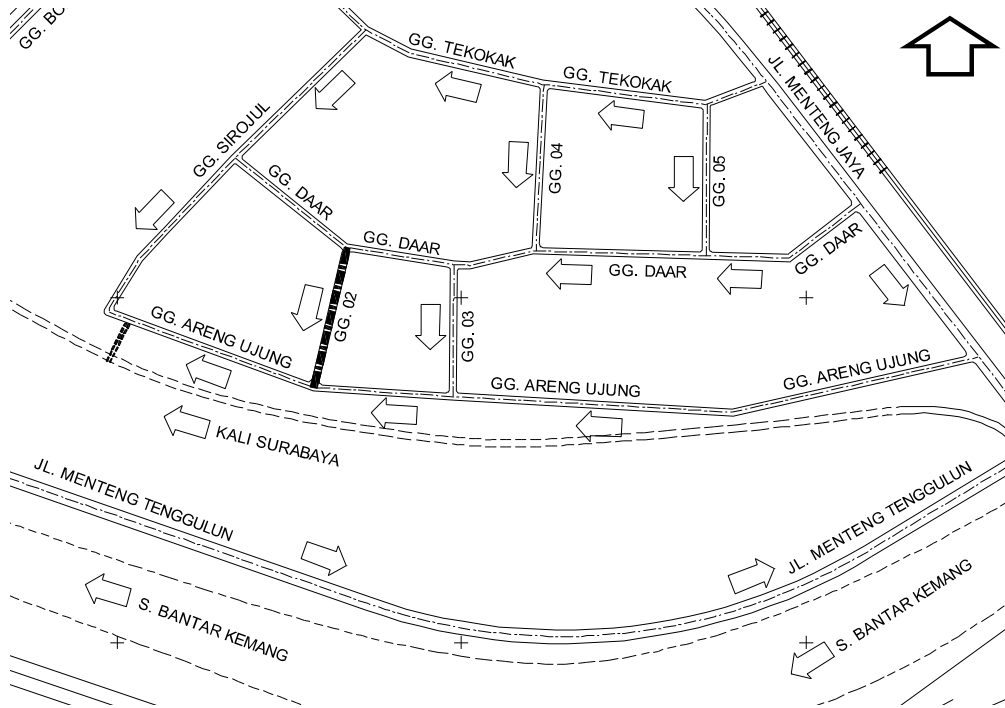


FOTO

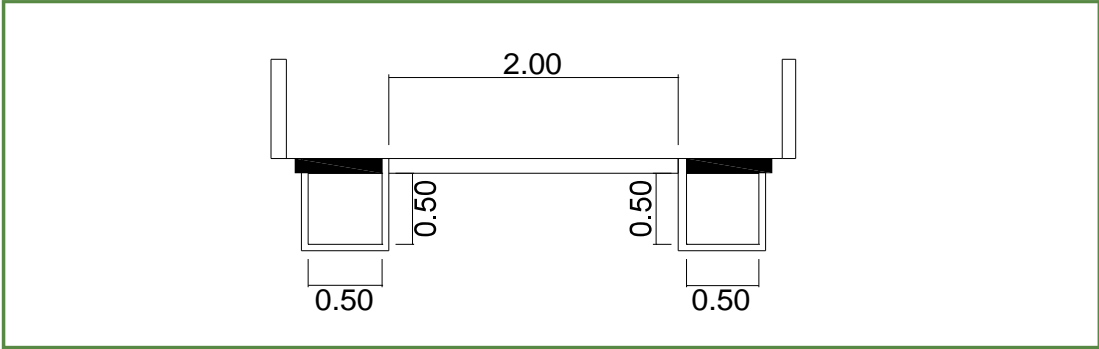


11. DETAIL OF GG. 02 (MENTENG AREA 1)

LAYOUT



SKETCH



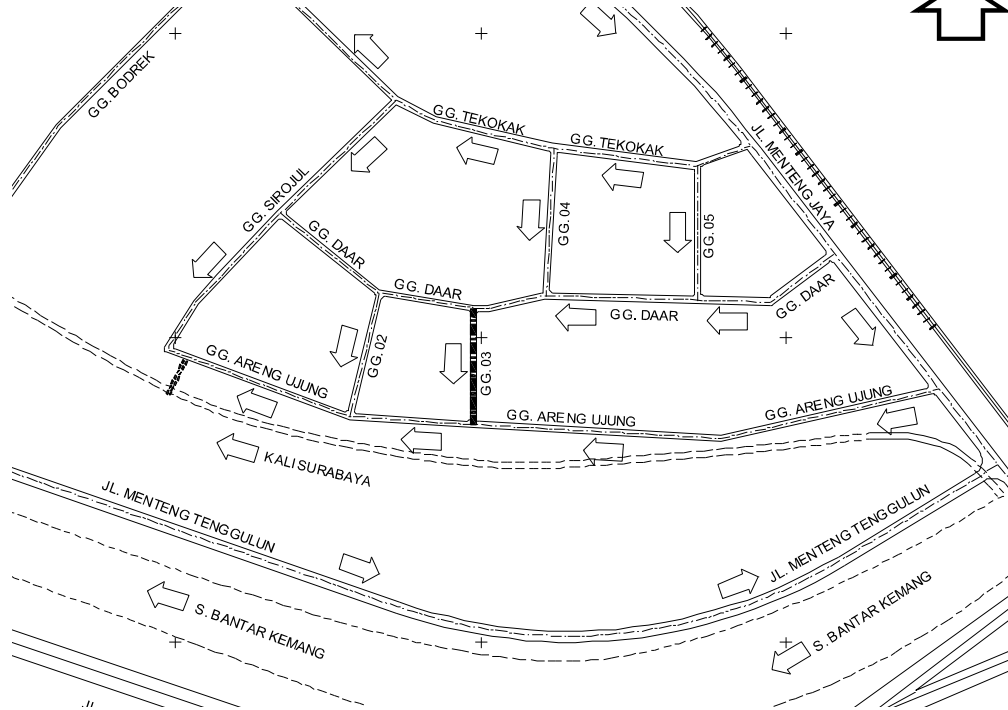
FOTO



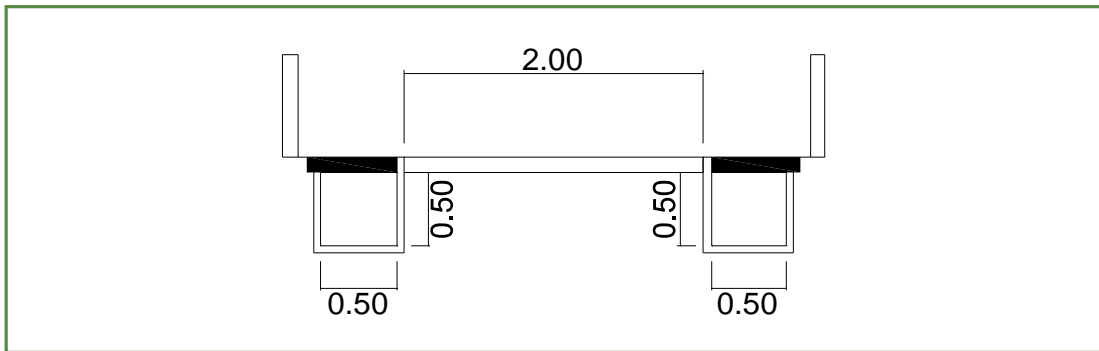
REPORT OF EXISTING DRAINAGE SYSTEM

12. DETAIL OF GG. 03 (MENTENG AREA 1)

LAYOUT



SKETCH

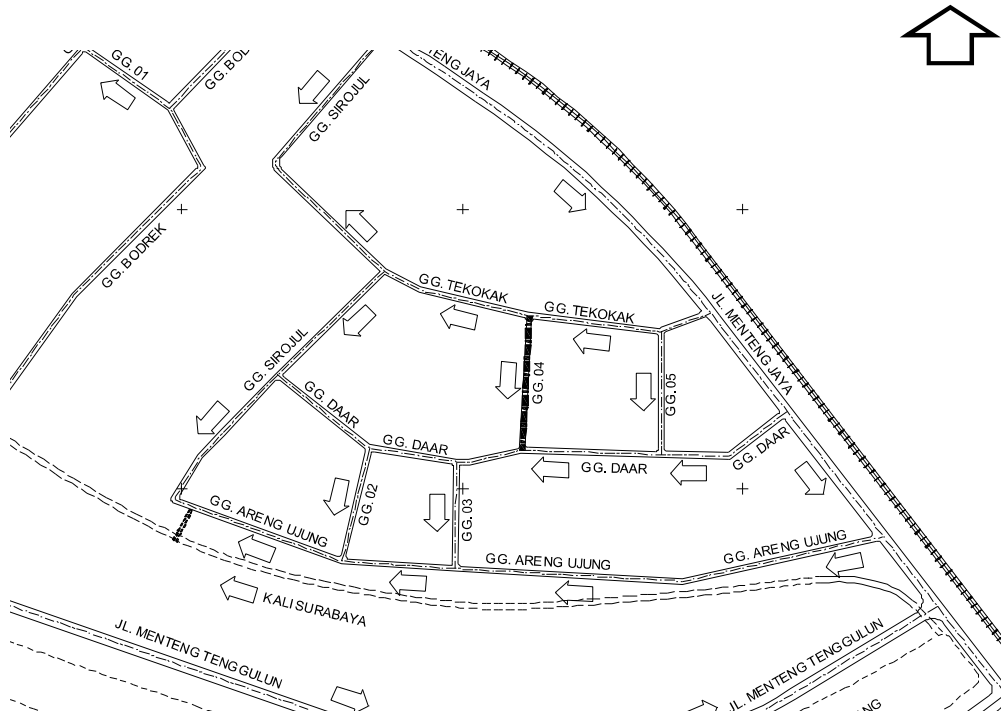


FOTO

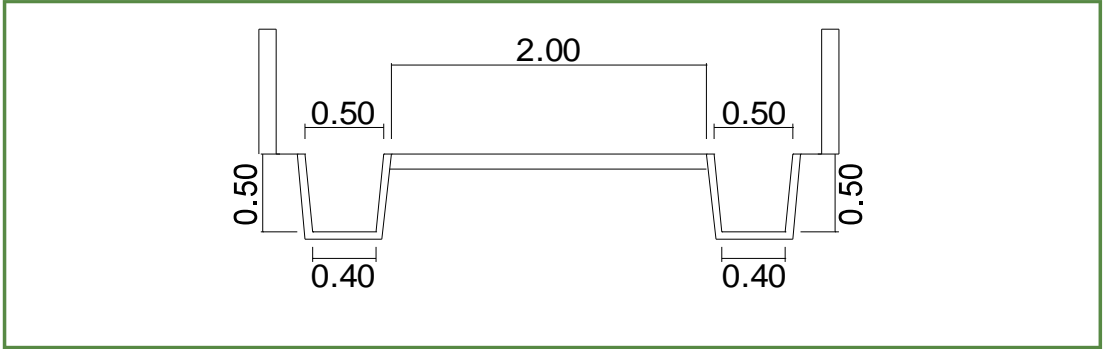


13. DETAIL OF GG. 04 (MENTENG AREA 1)

LAYOUT



SKETCH

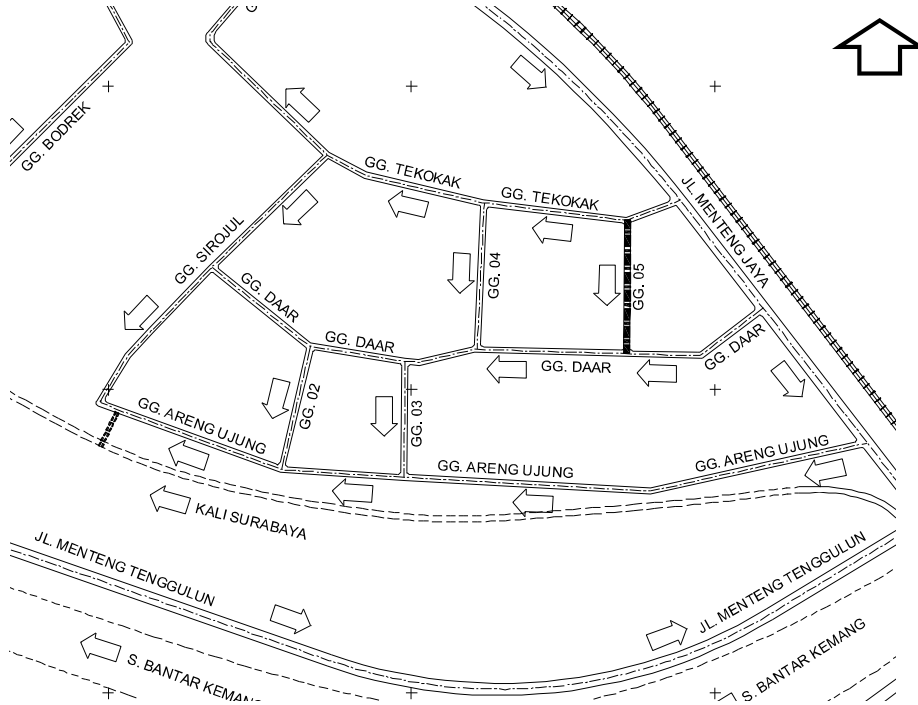


FOTO

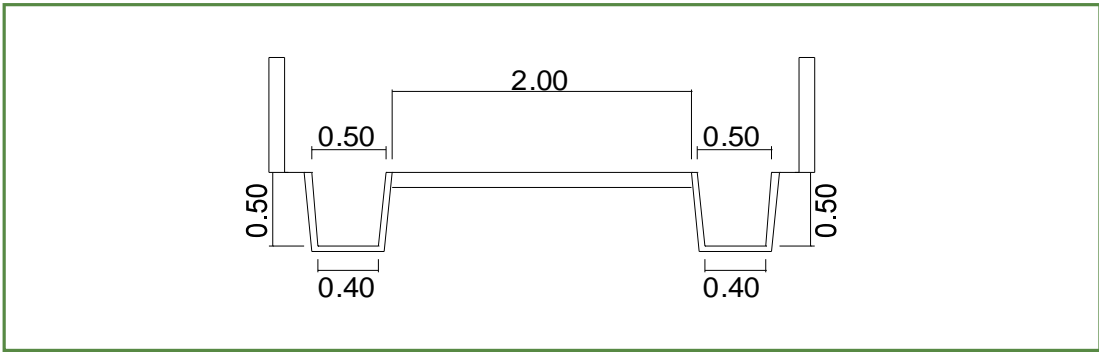


14. DETAIL OF GG. 05 (MENTENG AREA 1)

LAYOUT



SKETCH



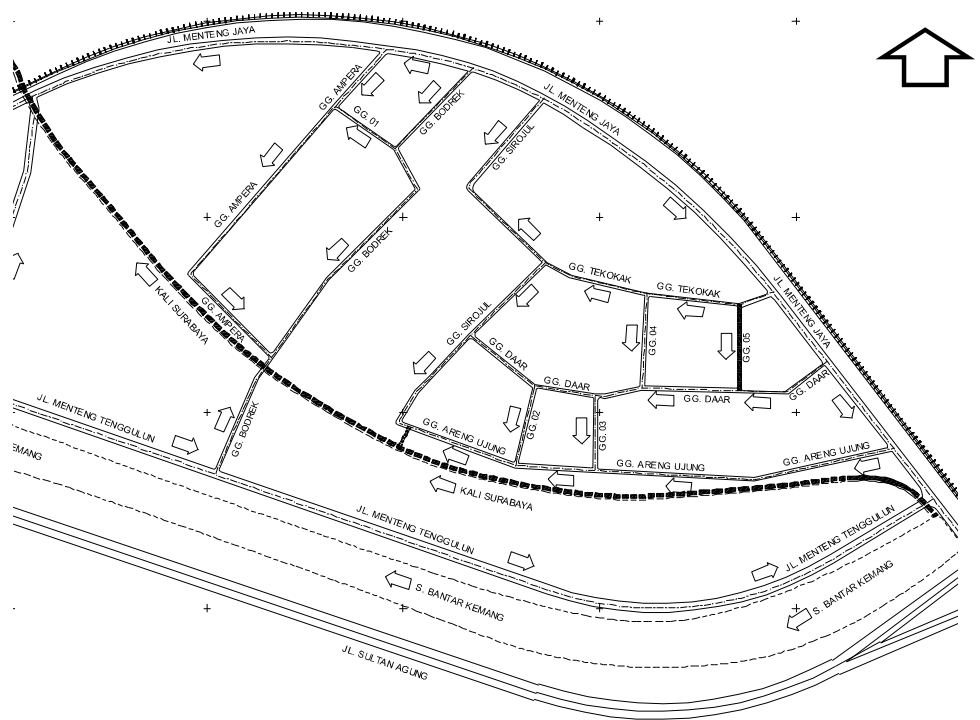
FOTO



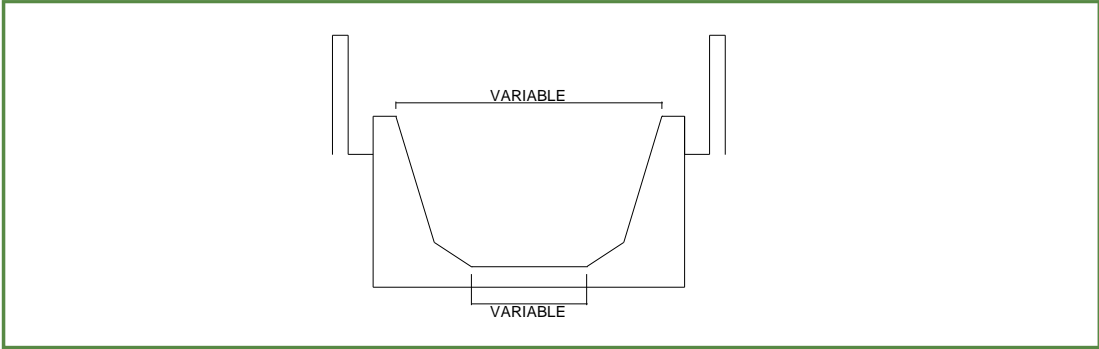


DETAIL OF KALI SURABAYA (MENTENG AREA 1)

LAYOUT



SKETCH

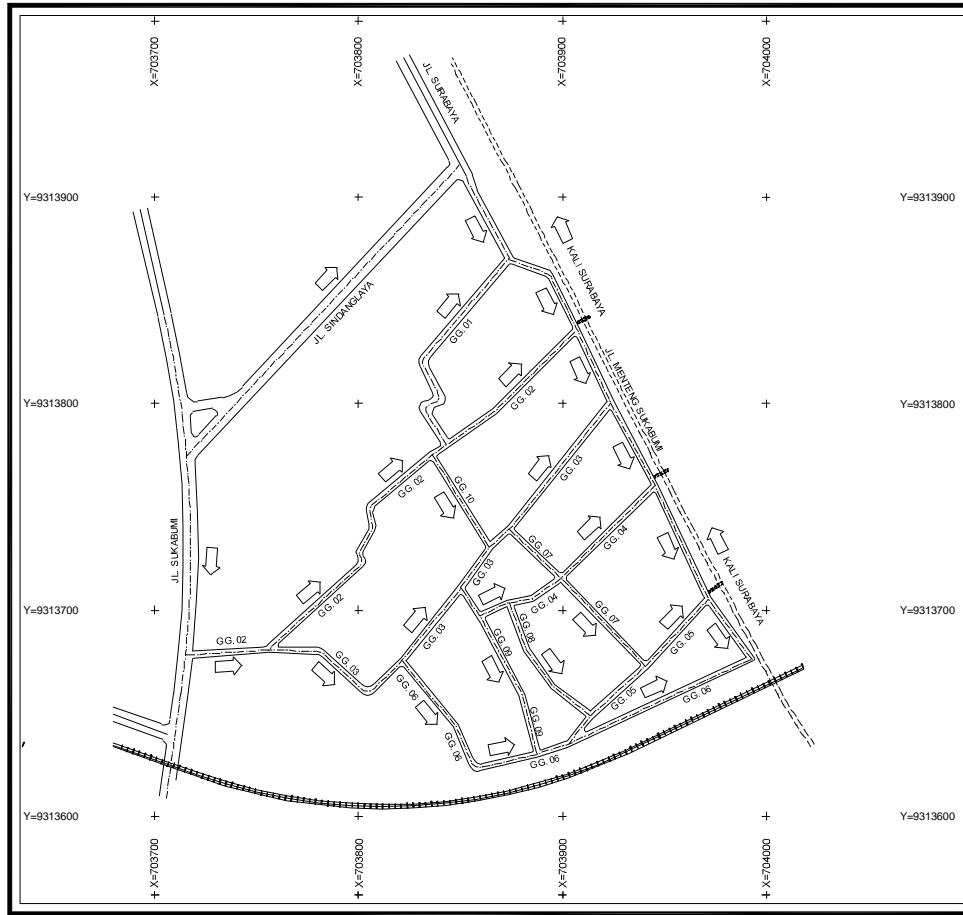


FOTO





## DISTRICT MODEL MENTENG AREA-2 (KEC. MENTENG)



REPORT OF EXISTING DRAINAGE SURVEY

NO.	NAME	LENGTH	COORDINATE			
			START		END	
			X	Y	X	Y
1	JL. SUKABUMI	170,00	703712,117	9313805,193	703709,921	9313638,723
2	JL. SINDANGLAYA	200,00	703849,610	9313915,516	703715,809	9313774,676
3	JL. MENTIENG SUKABUMI	235,00	706423,270	9313450,419	706324,523	9313635,955
4	GG. 01	160,00	706273,487	9313554,312	706283,097	9313683,666
5	GG. 02	265,00	706145,571	9313452,526	706336,363	9313609,166
6	GG. 03	245,00	706185,895	9313455,069	706354,030	9313574,742
7	GG. 04	110,00	706375,770	9313534,516	706289,736	9313471,325
8	GG. 05	100,00	706333,556	9313409,626	706401,922	9313479,621
9	GG. 06	215,00	706423,133	9313450,606	706251,514	9313449,634
10	GG. 07	100,00	706371,206	9313447,135	706304,195	9313513,491
11	GG. 08	75,00	706304,174	9313477,899	706344,288	9313423,201
12	GG. 09	100,00	706280,689	9313485,109	706318,028	9313404,564
13	GG. 10	65,00	706266,447	9313549,481	706294,621	9313504,748

MODEL DISTRICT SURVEY TABLE TAMBORA AREA -2 (KEC. MENTENG)

No.	Kelurahan	River Basin	Jalan	Structure					Condition		Remark
				Type	W Top / dia (m)	W Botto m (m)	H(m)	L(m)	Clogged	A	hf = Depth of flow
									Failed	B	(see encl. Photograph)
									Subsidy	C	
1	MENTENG	KALISURABAYA	SUKABUMI	□	1,00	1,00	0,90	170,00	Subsidy	B/C	0,7
2	MENTENG	KALISURABAYA	SINDANGLAYA	□	1,00	1,00	0,90	200,00	Subsidy	B/C	0,6
3	MENTENG	KALISURABAYA	MENTENG SUKABUMI	∩	0,60	0,50	0,50	235,00	Subsidy	B/C	0,15
4	MENTENG	KALISURABAYA	GG. 01	□	0,50	0,50	0,40	160,00	Subsidy	B/C	0,2
5	MENTENG	KALISURABAYA	GG. 02	□	0,50	0,50	0,40	265,00	Subsidy	B/C	0,2
6	MENTENG	KALISURABAYA	GG. 03	∩	0,60	0,50	0,50	245,00	-	C	0,2
7	MENTENG	KALISURABAYA	GG. 04	∩	0,60	0,50	0,50	110,00	-	C	0,2
8	MENTENG	KALISURABAYA	GG. 05	∩	0,60	0,50	0,50	100,00	-	C	0,15
9	MENTENG	KALISURABAYA	GG. 06	∩	0,60	0,50	0,50	215,00	-	C	0,15
10	MENTENG	KALISURABAYA	GG. 07	∩	0,50	0,40	0,50	100,00	Failed	B/C	0,2
11	MENTENG	KALISURABAYA	GG. 08	∩	0,60	0,50	0,50	75,00	Subsidy	B/C	0,2
12	MENTENG	KALISURABAYA	GG. 09	∩	0,50	0,50	0,50	100,00	Failed	B/C	0,3
13	MENTENG	KALISURABAYA	GG. 10	□	0,50	0,50	0,50	65,00	-	C	0,2
14	MENTENG	KALISURABAYA	GG. 05	∩	0,50	0,40	0,50	50,00	Subsidy	B/C	0,2



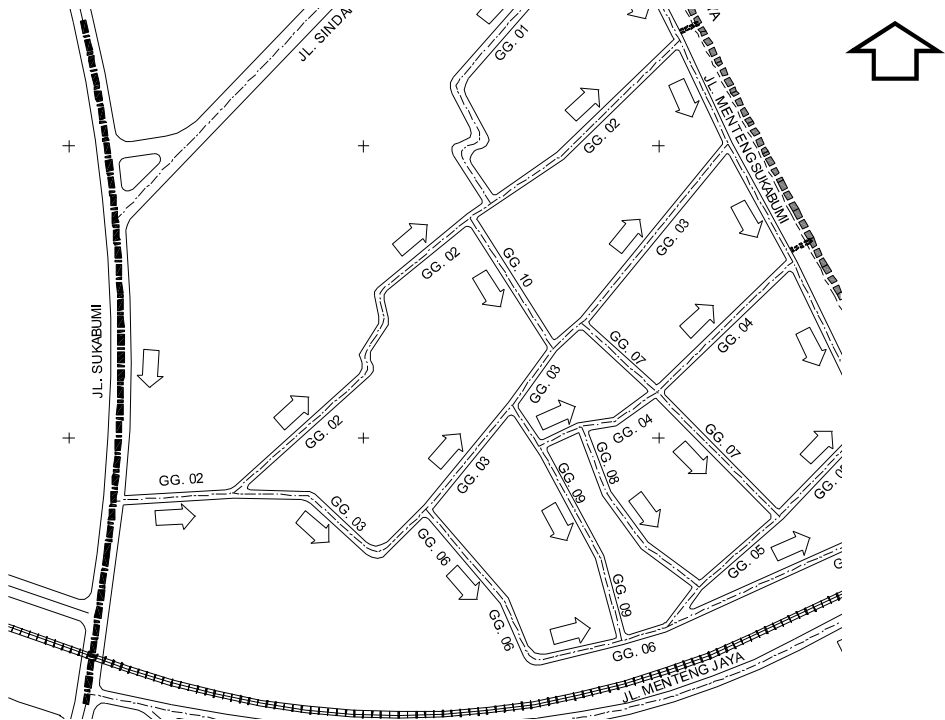
# DISTRICT MODEL

## MENTENG AREA 2 | KECAMATAN MENTENG

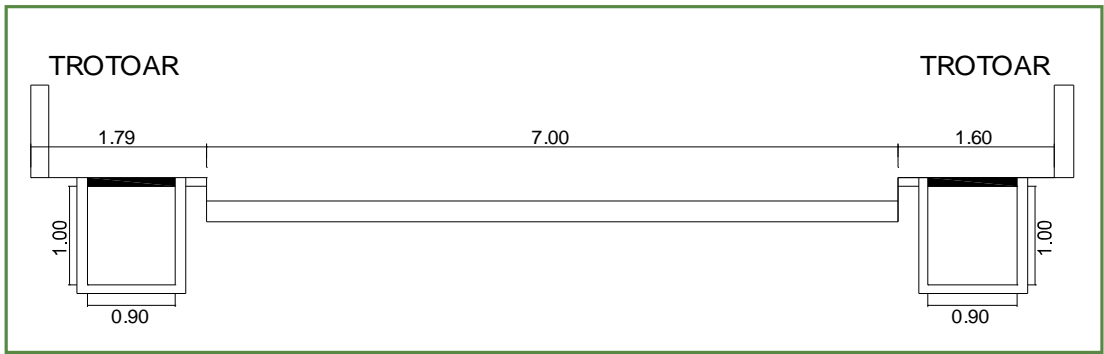


01. DETAIL OF JL. SUKABUMI (AREA MENTENG 2)

LAYOUT



SKETCH

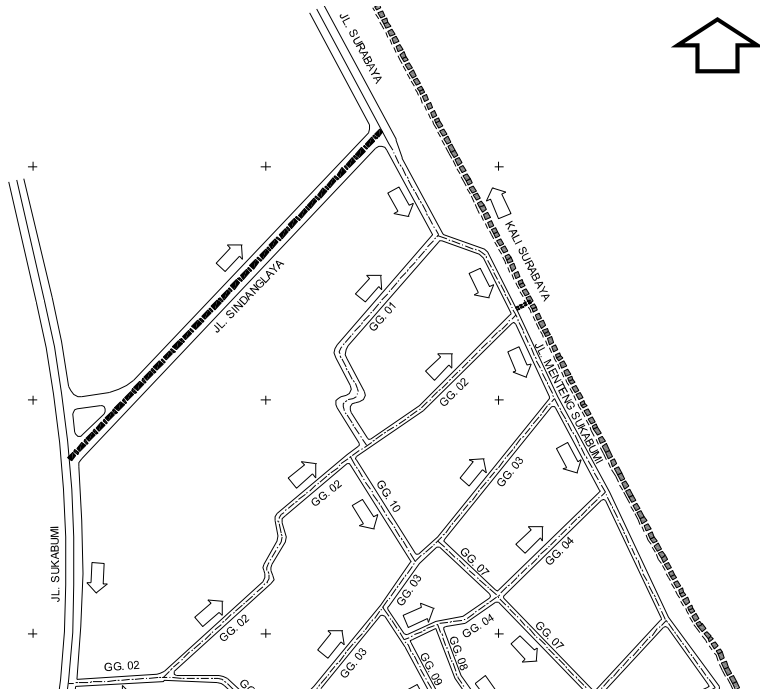


FOTO

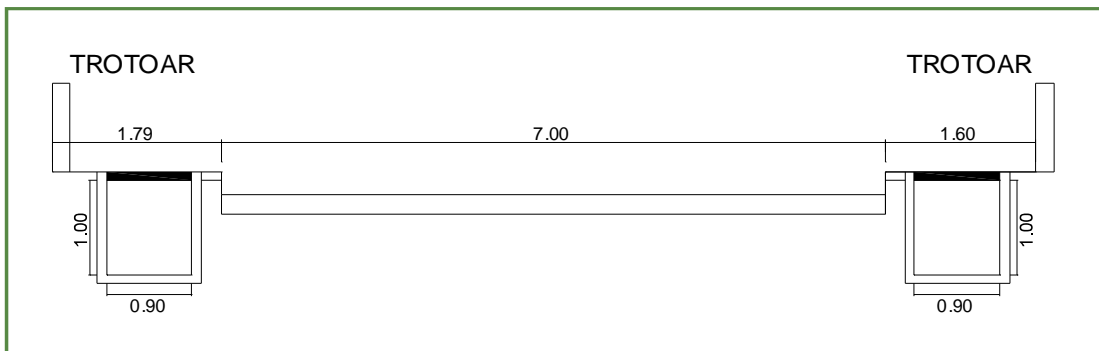


02. DETAIL OF JL. SINDANGLAYA (MENTENG AREA 2)

LAYOUT



SKETCH



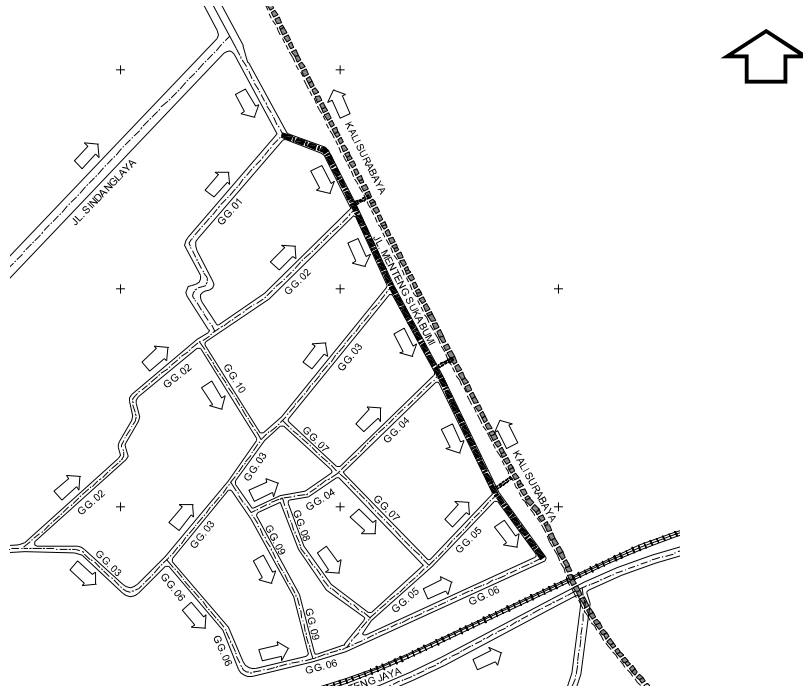
FOTO



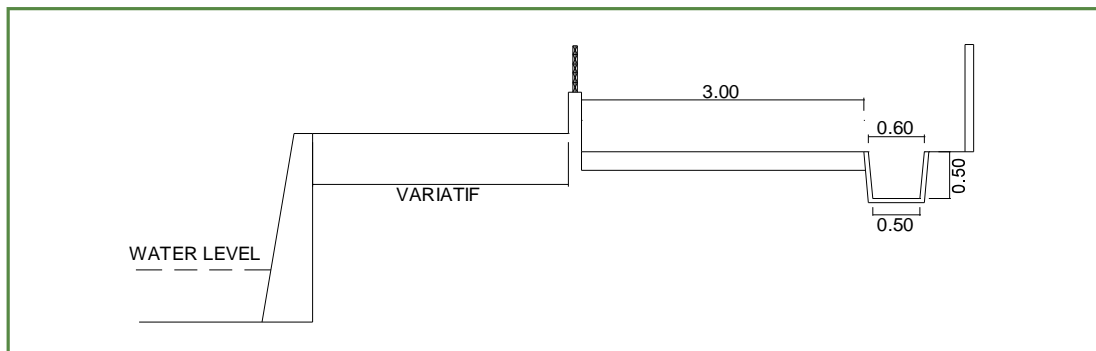
REPORT OF EXISTING DRAINAGE SYSTEM

03. DETAIL OF JL. MENTENG SUKABUMI (MENTENG AREA 2)

LAYOUT



SKETCH



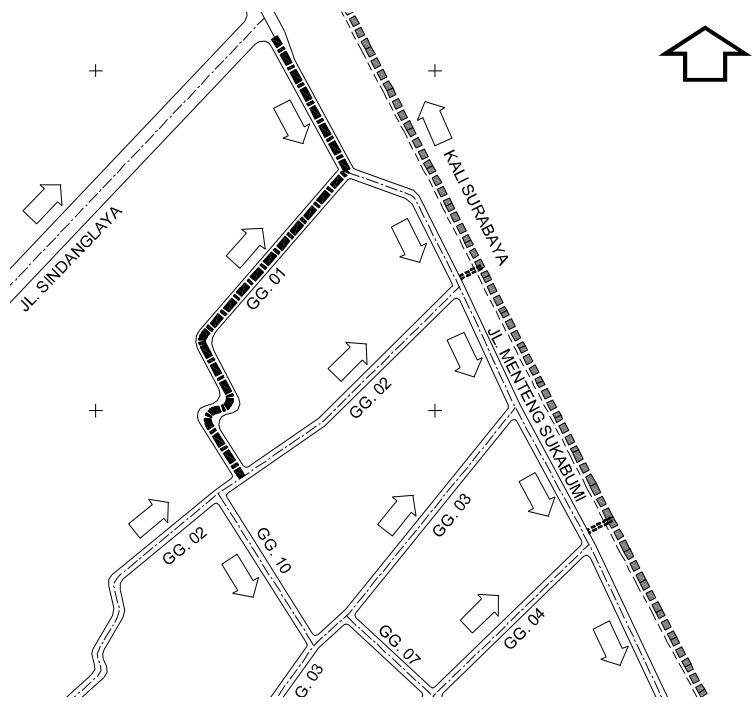
FOTO



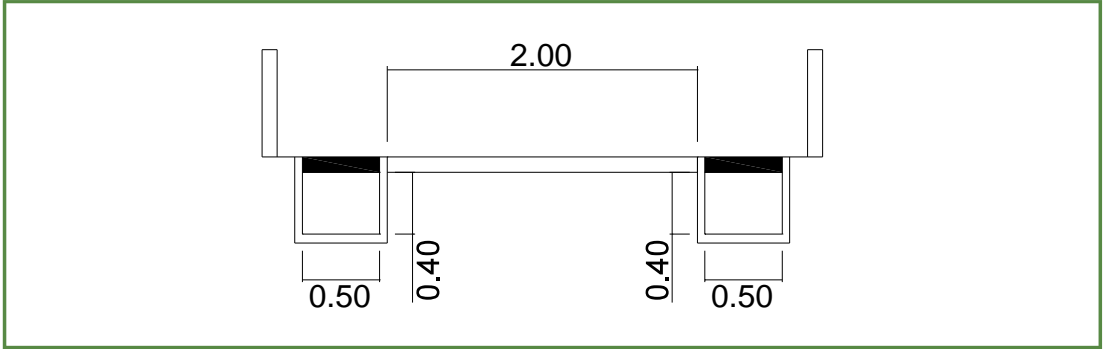


04. DETAIL OF GG. 01 (MENTENG AREA 2)

LAYOUT



SKETCH



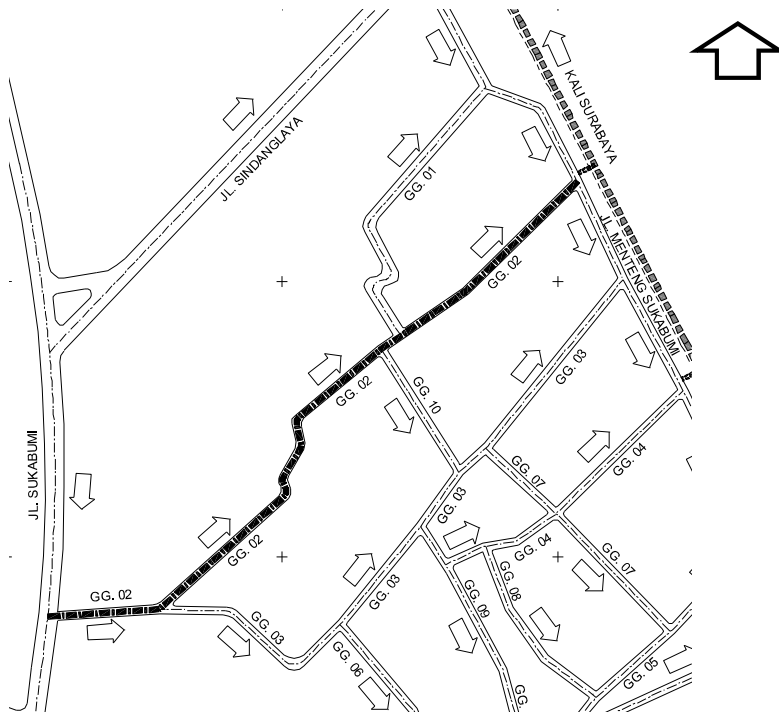
FOTO



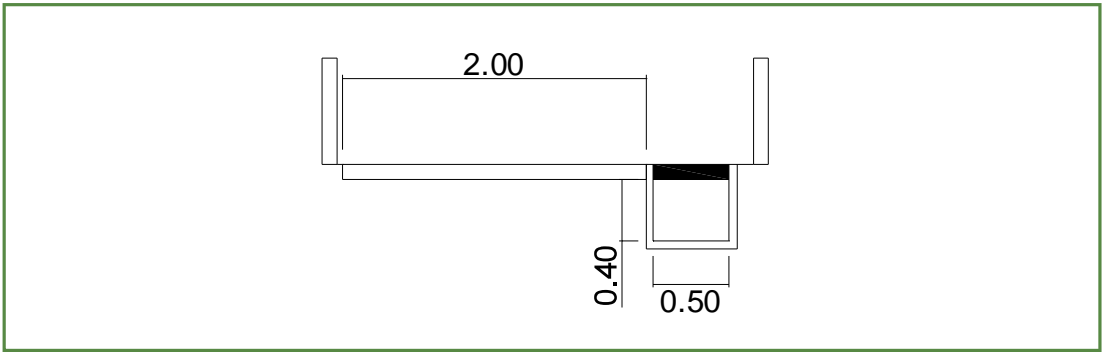
REPORT OF EXISTING DRAINAGE SURVEY

05. DETAIL OF GG.02 (MENTENG AREA 2)

LAYOUT



SKETCH

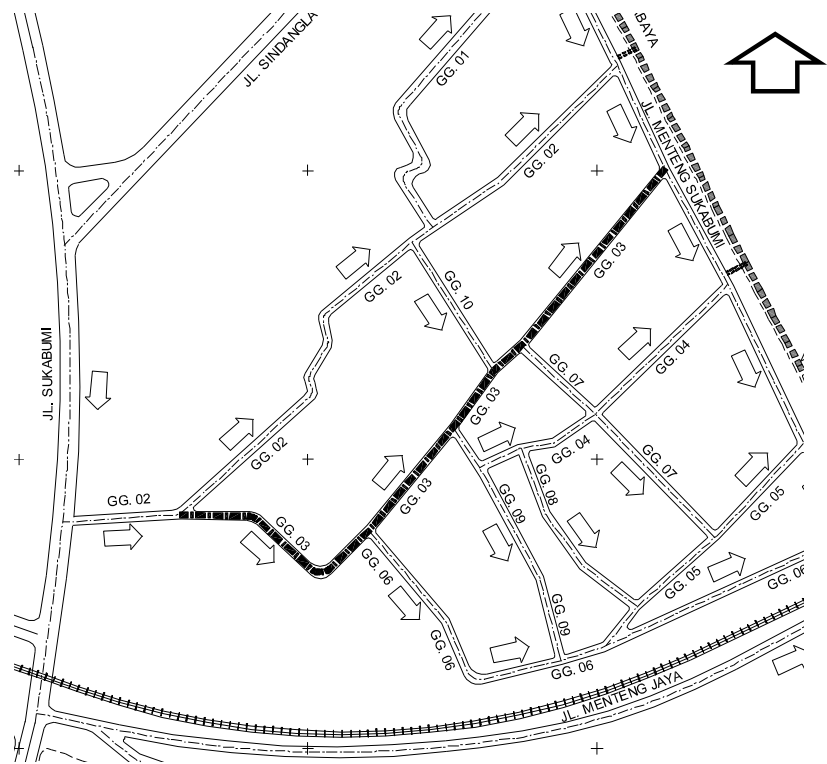


FOTO

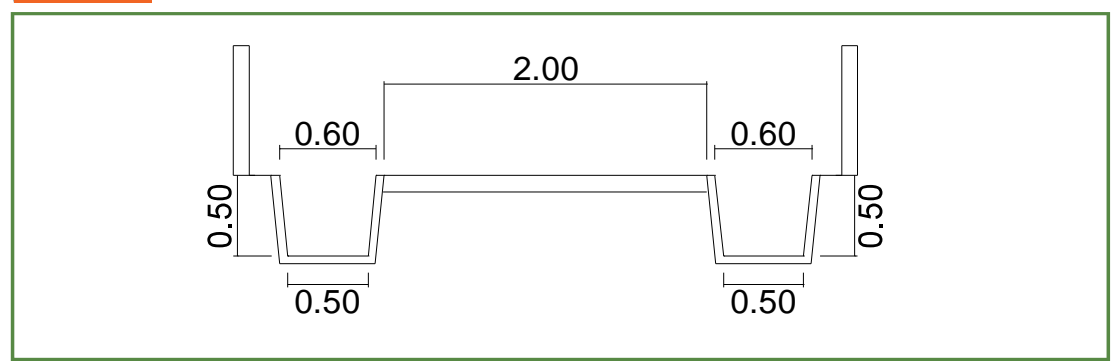


06. DETAIL OF GG. 03 (MENTENG AREA 2)

LAYOUT



SKETCH



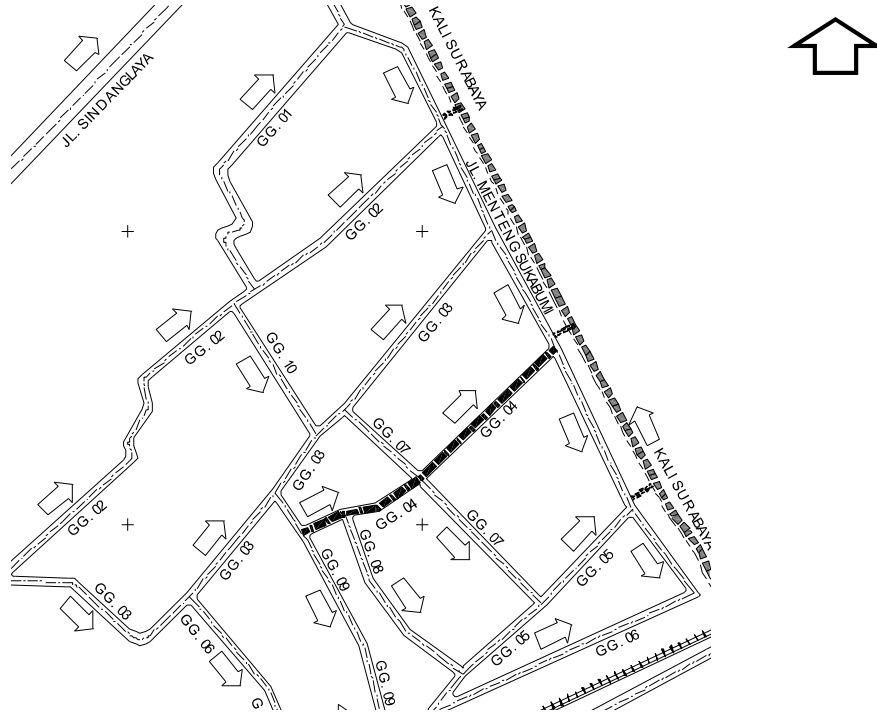
FOTO



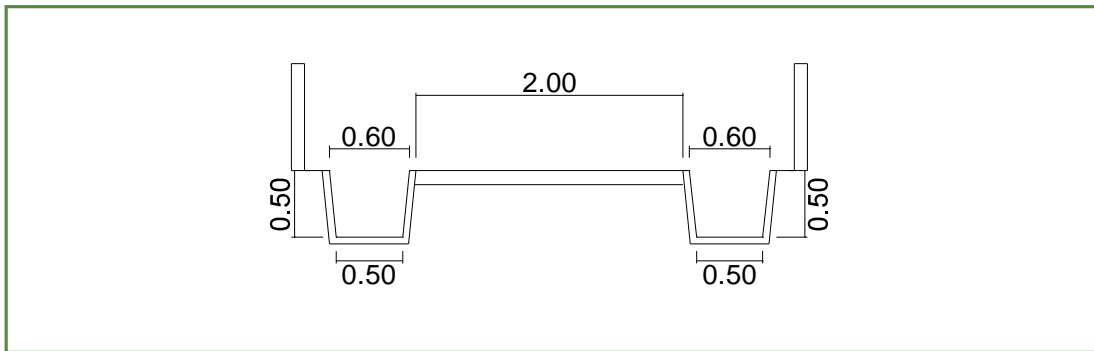
REPORT OF EXISTING DRAINAGE SYSTEM

07. DETAIL OF GG. 04 (MENTENG AREA 2)

LAYOUT



SKETCH

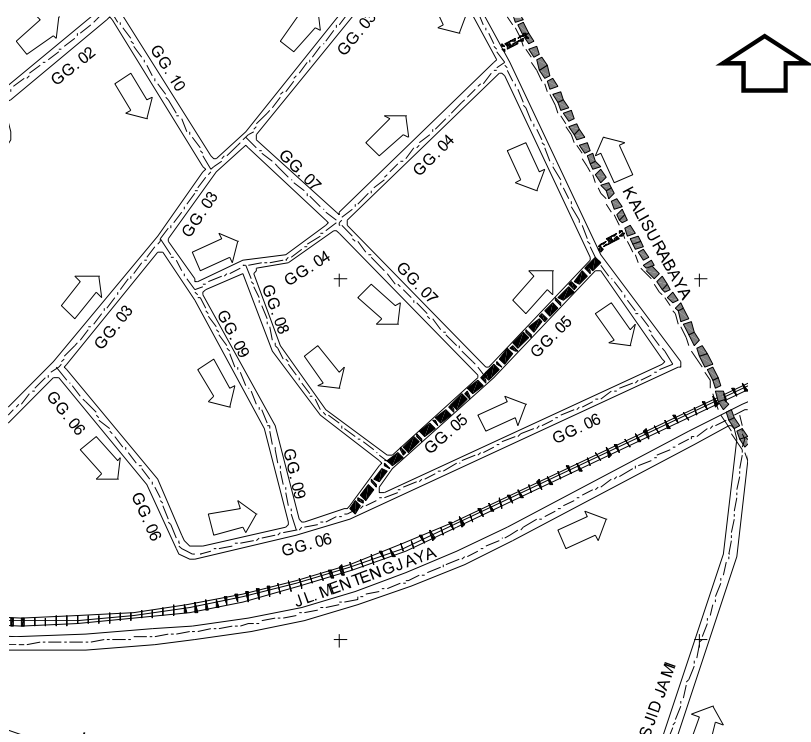


FOTO

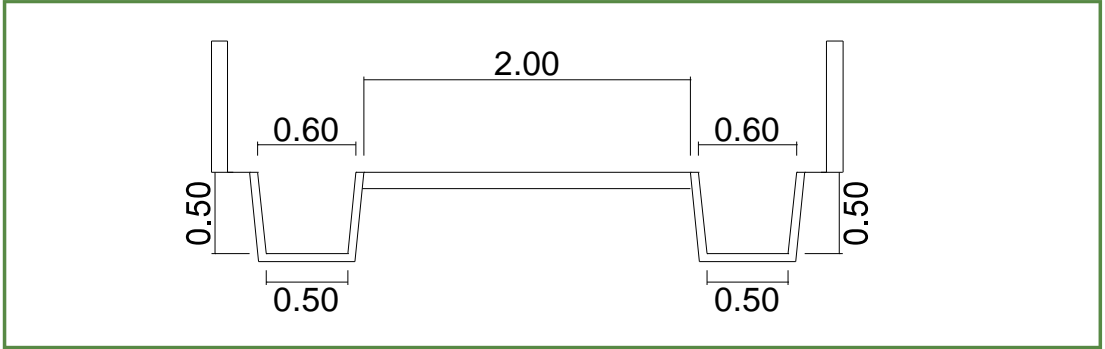


08. DETAIL OF GG. 05 (MENTENG AREA 2)

LAYOUT



SKETCH



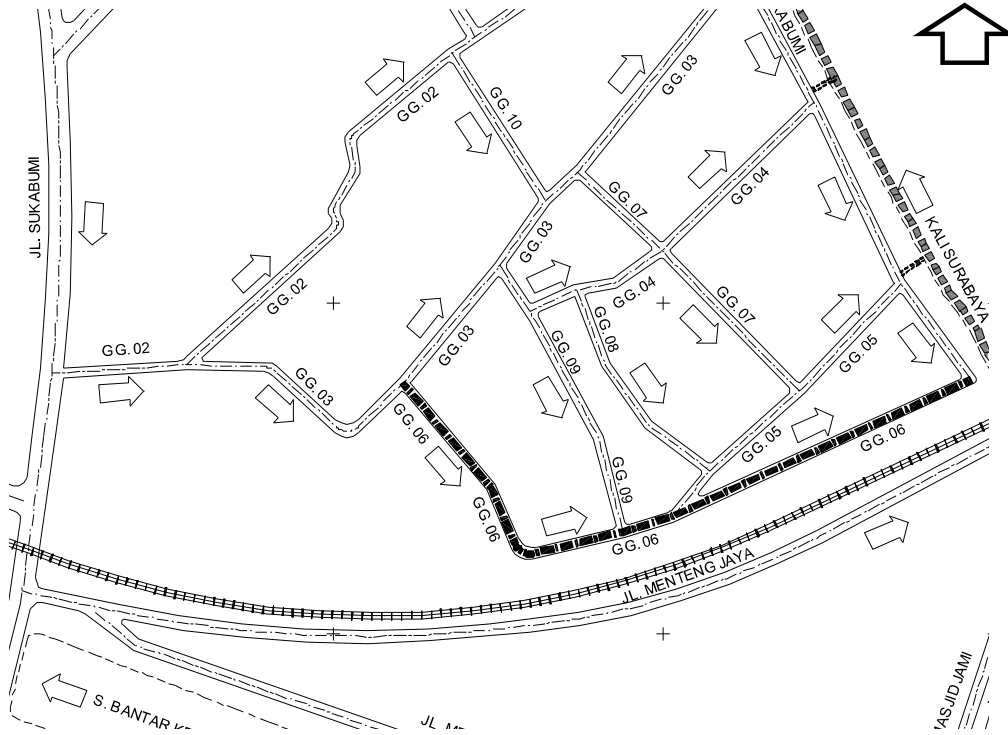
FOTO



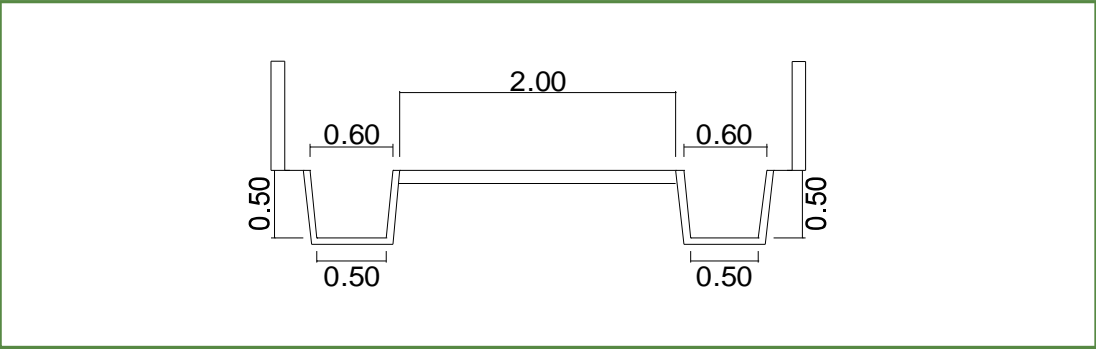
REPORT OF EXISTING DRAINAGE SYSTEM

09. DETAIL OF GG. 06 (MENTENG AREA 2)

LAYOUT



SKETCH



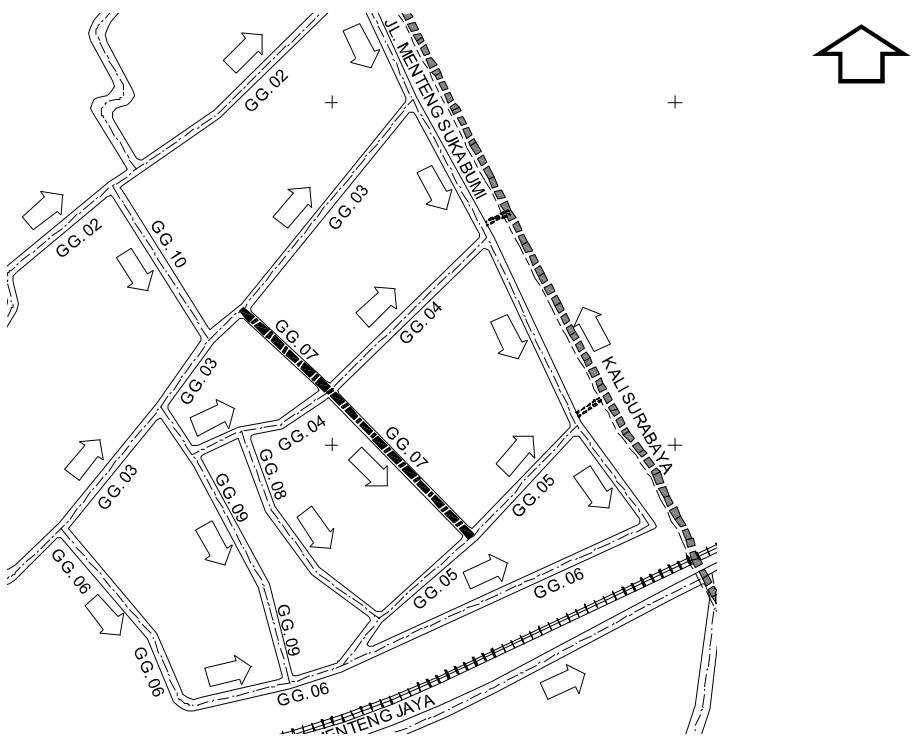
FOTO



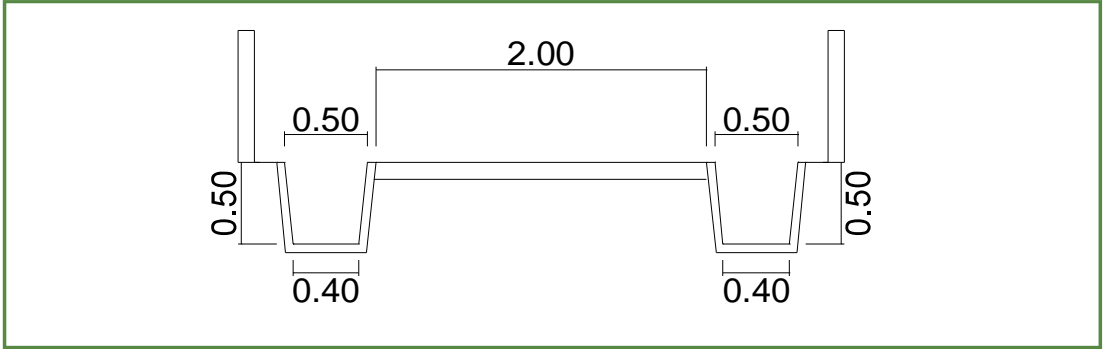


10. DETAIL OF GG. 07 (MENTENG AREA 2)

LAYOUT



SKETCH



FOTO

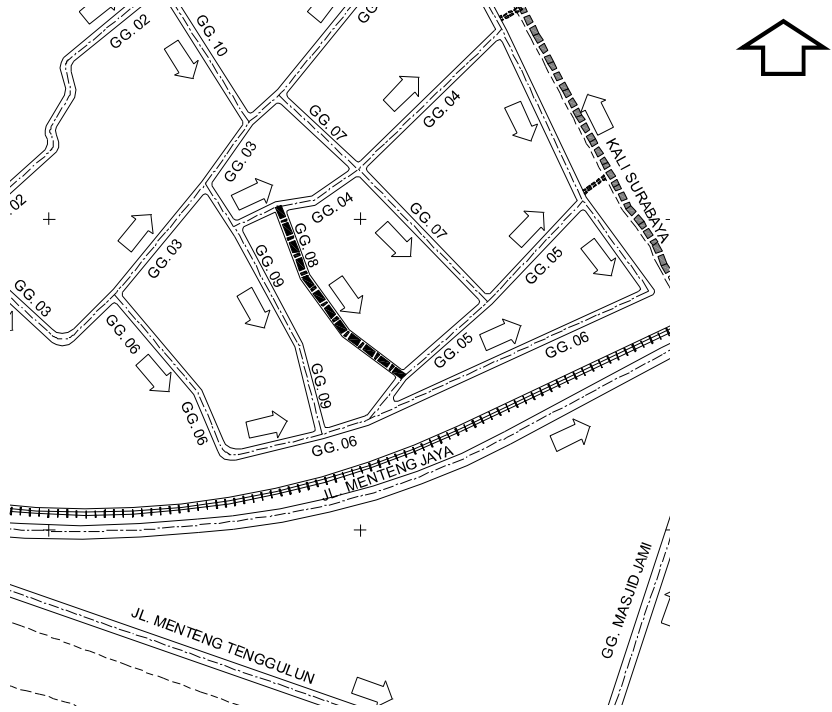


REPORT OF EXISTING DRAINAGE SYSTEM

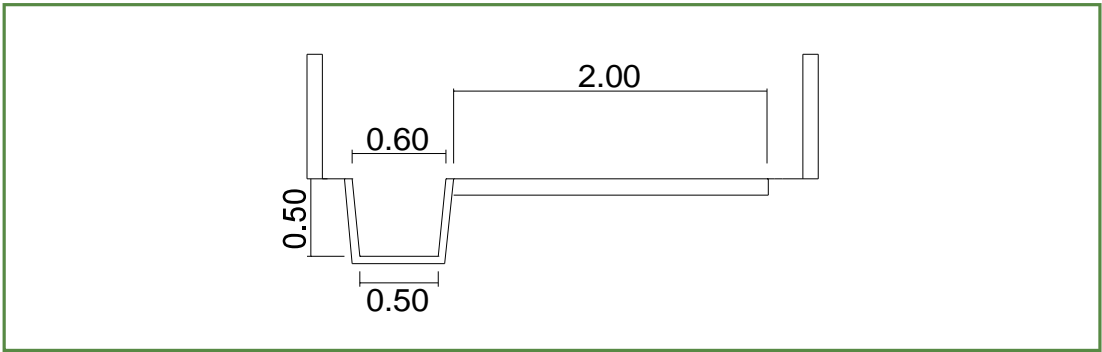


11. DETAIL OF GG. 08 (MENTENG AREA 2)

LAYOUT



SKETCH

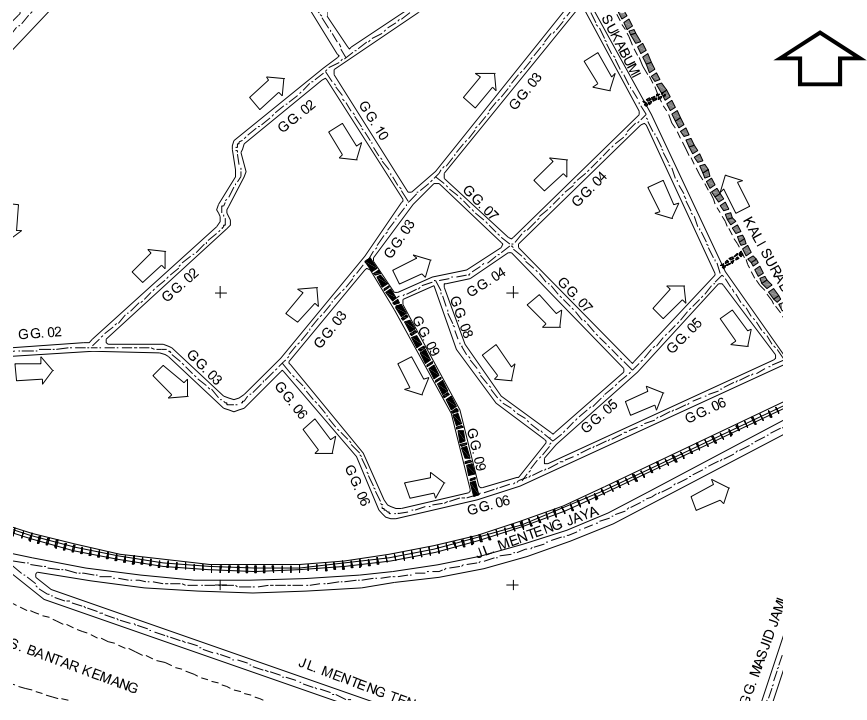


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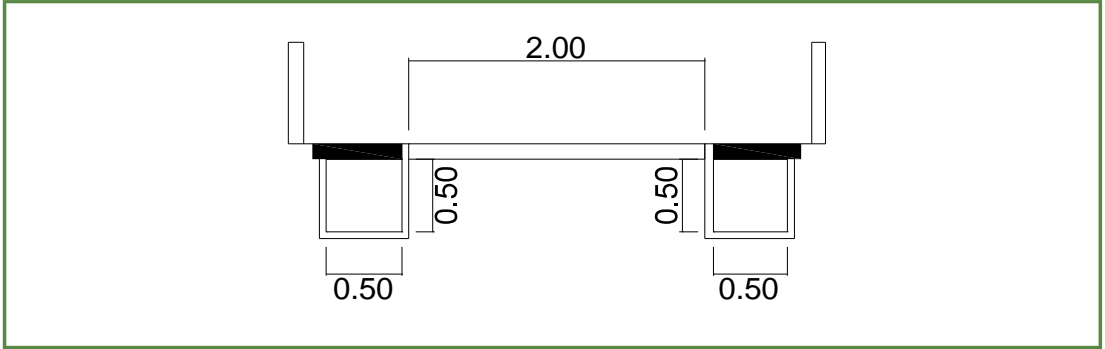


12. DETAIL OF GG. 09 (MENTENG AREA 2)

LAYOUT



SKETCH

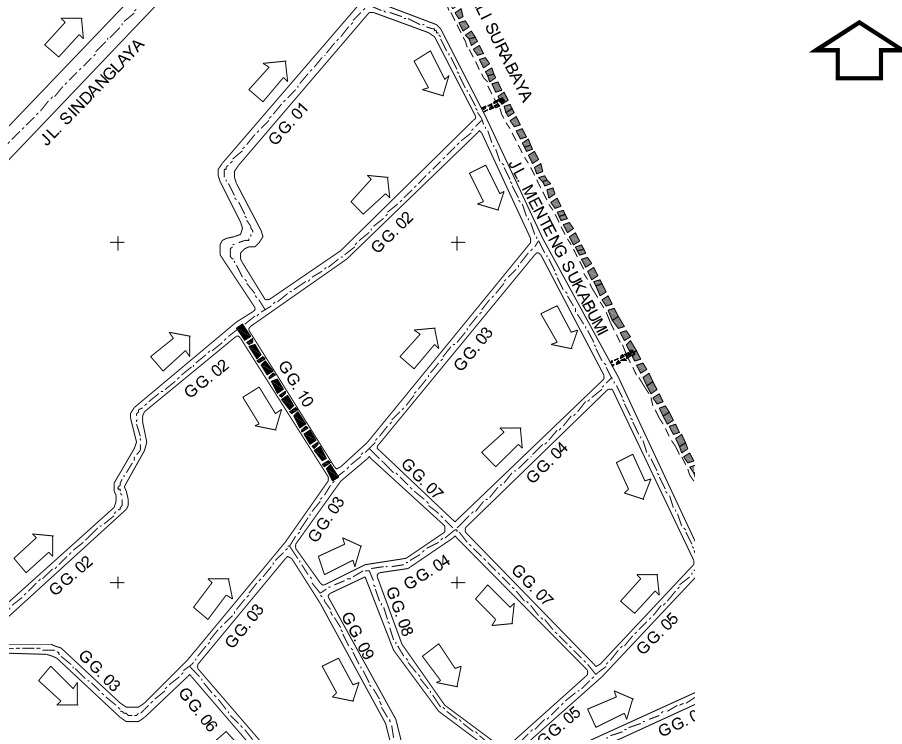


FOTO

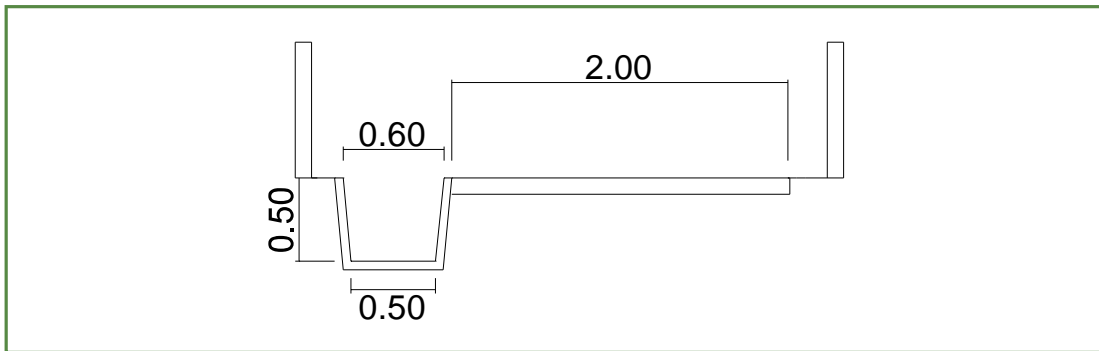


13. DETAIL OF GG. 10 (MENTENG AREA 2)

LAYOUT



SKETCH

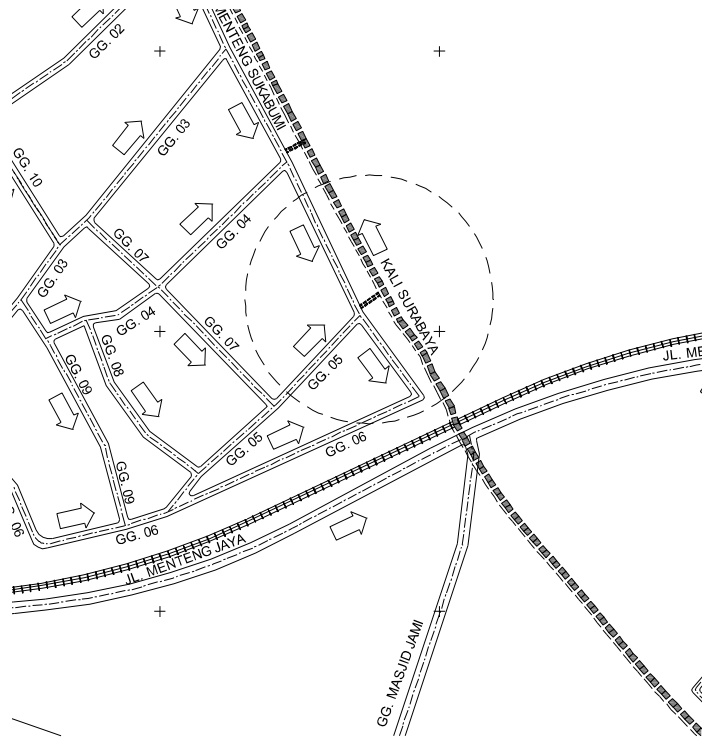


FOTO

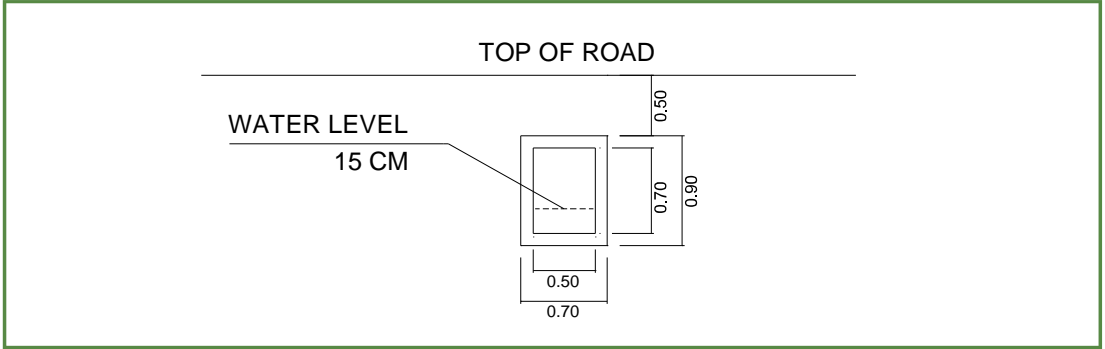


DETAIL OF BOX CULVERT - 1 (MENTENG AREA 2)

LAYOUT



SKETCH

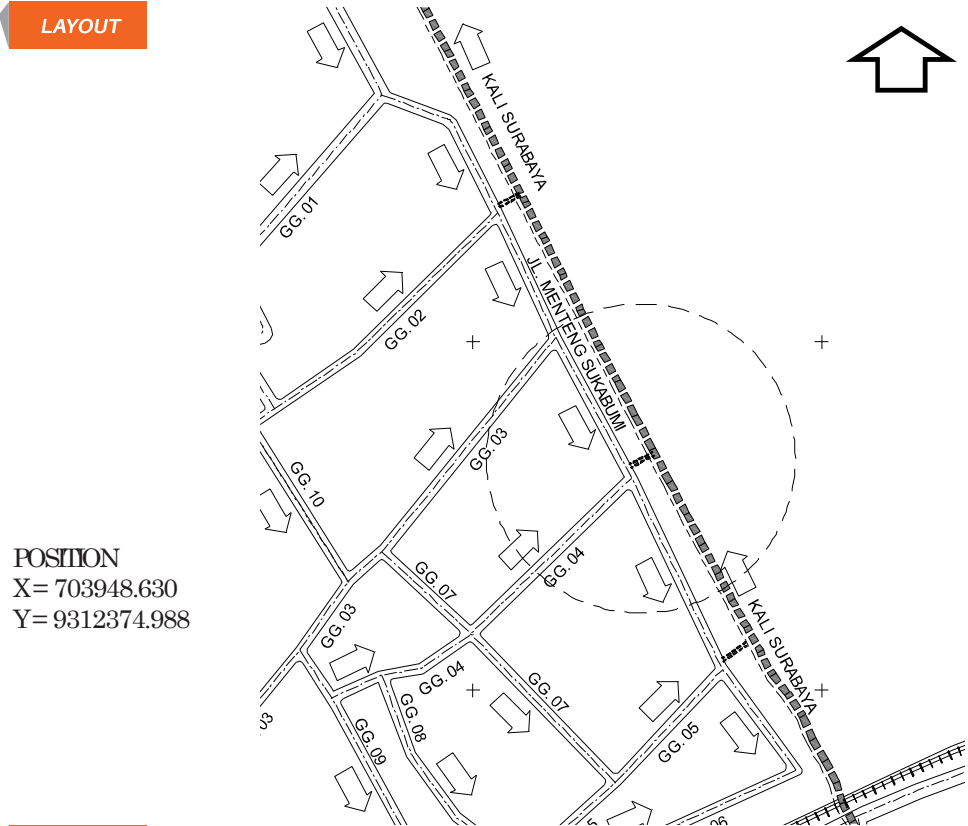


FOTO

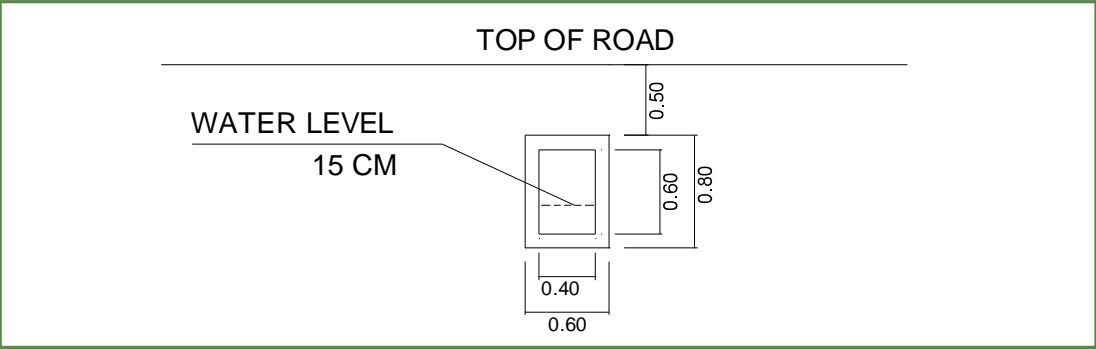


DETAIL OF BOX CULVERT - 2 (MENTENG AREA 2)

LAYOUT



SKETCH

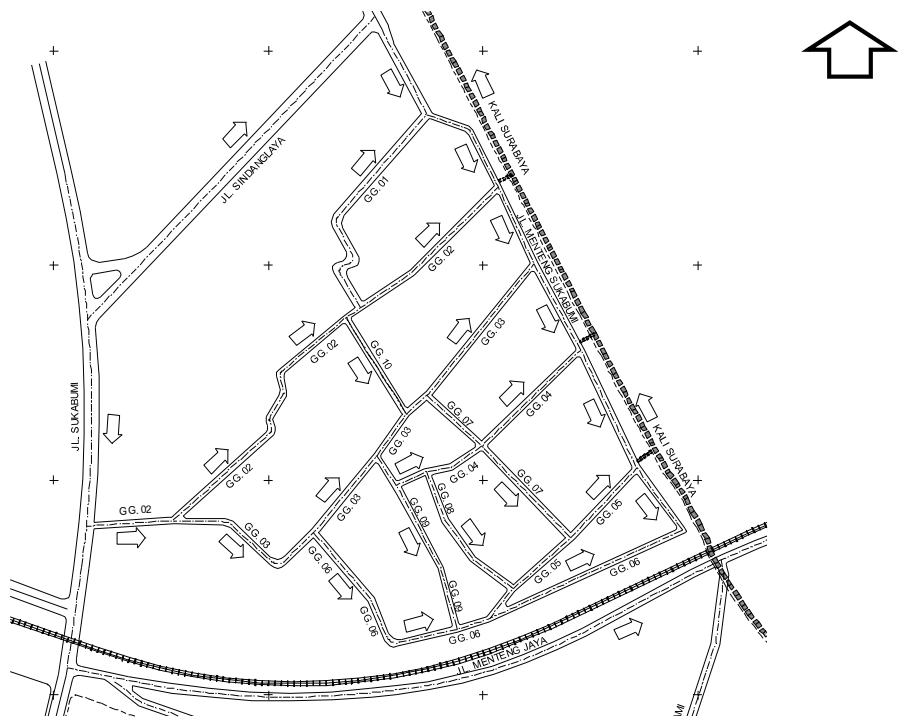


FOTO

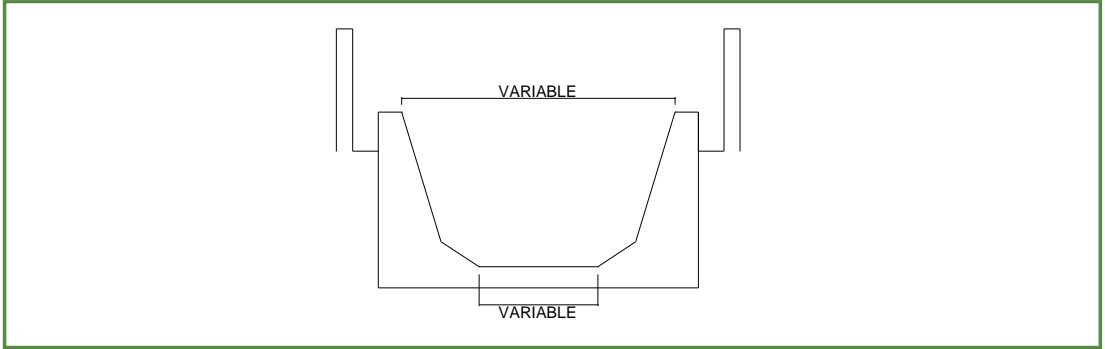


DETAIL OF KALI SURABAYA (MENTENG AREA 2)

LAYOUT



SKETCH



FOTO





## 6. THE CONDITION OF DRAINAGE CHANNEL IN SURVEY AREA

### I. The Condition of Drainage's Channel in Survey Area.

#### I.1. Survey Area District Model.

a. They are six district models in survey area that covers to 3 district areas (kecamatan) as follows:-

- Kecamatan Tanah Abang : 1 (one) district model of Tanah Abang.
- Kecamatan Tambora : 3 (three) district model of Tambora (Tambora 1, Tambora 2 and Tambora 3).
- Kecamatan Menteng : 2 (two) district model of Menteng (Menteng 1 and Menteng 2).

#### b. Tanah Abang District Model

b.1 The Tanah Abang district model is a populated area which able to be category as a poor populated area, the section in that area which transverse in open trapezoid format. The upper width of section area is 0.40 - 1.00 (m), and the bottom width 0.25 - 0.6 (m), and the depth of channel is 0.45 - 1.20 (m).

b.2 The square channel and closed channel can be found on the main road on the KH Mas Mansyur and Jalan Kebon Pala 1 that size 0.65 - 1.00 (m) and the height is 1.10 - 1.20 (m).

b.3. The water level on the channel is pretty shallow (0.1 - 0.2) compares to the channel height. This condition is caused pretty tilt area topographic, and this condition drives to tilt drainage channel water too.

b.4. The direction of water drainage been split become two parts, one part of drainage system flows to Kali Krukut system, and other one flows to Jalan Mas Mansyur drainage.

b.5. Sediments is smaller compare than Tambora model, it is caused by the speed of water flows is faster, and also the water door valve water channel relatively much higher compares than Menteng district.

#### c. Menteng District Model.

c.1 The district Menteng model is combination between residence and also stores, but the resident is not listed on dirty populated area.

c.2. The area 1 and area 2 district models are split by Jalan Menteng Raya that area 1 model water flow direction goes to Bantar Kemang, on the other hand, area 2 district model water flows majority goes to Kali Surabaya.

c.3. The categories of water flow channel is dominated by open water channel on the trapezoid form (60% - 70%), on the width average 0.5 - 0.6, and the height 0.50m

c.4. The sediments on the water channel is relatively small, but the problem is floating waste/trash is pretty big even they are still not clogging.

c.5. The condition of Menteng drainage is better than Tanah Abang, in the meantime, Kali Surabaya water disposal is better than Kali Krukut which end of water disposal.



d. Tambora District Model

d.1. The section of water flow channel is dominated on the square form, and they are some open water flows channel which on trapezoid form.

d.2. The size of water channel is 0.4 - 0.8m, the height is 0.6 - 1.2m.

The size of water channel in the main street is bigger than smaller street.

d.3. The type of water channel cover:

a) Open without closure.

b) Closure:

1) It can be used for pedestrians. This kind of closure can be found on the aisle.

2) It can be used for pedestrians that goes to residents and stores.

This condition can be found of business area which is covered on Pemiagaan Timur.

3) Closure with solid cements used for such pedestrians, and we can find this type on Jalan Pekojan.

d.4. The Channel Construction:

It consists new construction and old construction. The old construction is made by stone, and the new construction is made by sold cements, and we can find this on Jalan Pasar Pagi.

d.5. Water Channel Condition:

a) Damages

The malfunction on the water closure is not very often happening on the resident area, it caused by the resident in this area is able to maintain/take care water closure. The problem on the water closure can be found on Jalan Pengukiran 3 (1 unit) and Jalan Pasar Pagi closure made by solid cemen that fell into the channel (it caused by the size of solid cement closure size not fit as same as Jalan Pekojan). The under channel malfunction/can not be seen or can not be found.

b) Sediments

Sediments are very often happening on water tunnel, and it is sediment almost half of water channel depth. We can found higher sedimentation on Jalan Pasar Pagi, Pengukiran and Pejagalan. Other than channel depth sediment, they are a lot of waste on water surface. This condition is caused by less maintenance for water channel and not taking care of waste disposal.

c) Flows

Less water flows or no water flows can be found on JalanPerniagaan and Pengukiran. This is the indication that water flows not running properly, and clogging is a potential problem.

d.6. Maintenance.

a) Monitoring

It is not an easy job to monitor especially the closed of water channel.

b) Regular checking

It is an easy job to do especially for open water channel type and it is hard to check for closed water channel.

c) Fix water channel

It is an easy job to do especially for open water channel type and it is hard to check for closed water channel.

## 12. The Survey Location is on Jalan Utama and Jalan Raya.

- a. The length of drainage on the main street is ....% from 89.450 km the whole of drainage channel or surveyed road.  
It can be found that the water channel drainage on the main street is bigger than big road.
- b. The double of water channel drainage on the left and right side of road is dominating about 70% from the total of surveyed road. Hence, single drainage (Jalan which one sided nearby a river) covers about 30%.
- c. They are 3 categories of drainage on the main road as follows:
  - Opening channel system : 11 %
  - Combining channel system : 13%
  - Closing channel system : 76%
- d. The size of closing channel average is 0.7-1.4m, the height is 1.0 -1.5m, the opening weight size is average is on 0.8 - 5.0m and the depth is 0.7 - 2.00 m.
- e. The depth of water drainage is pretty high (0.4- 0.6m) compares with the water channel is 1.0-1.5m. This kind of condition drives to the water speed on the water channel not running smoothly/floating. This problems caused by waste disposal that drives to difficulties to check water direction (in majority the water channel using closing types).
- f. Mostly the problems are caused by sediment (80%-90% sediments), whereas damage to buildings only approximately 5% of the total length of roads along the main road.
- g. Based on research, the average of main hole of water drainage under the road is 25m, but the main hole of water drainage will be depending of road size, and it averages on each 10m.
- h. The difficulties to identify water direction, that includes of the depth of water sediment, and also the damages on water channel, that impossible to open the main hole caused by very hectic traffic.

## II. Suggestion and Conclusion.

### II.1. The result from field survey are listed as follow:

- a. The damages of water channel closure is not very often can be found.
- b. The damages of water channel below the road is not easy to define (closure), in majority they were very old, they are eligible to be checked and to get fixed especially on the water channel wall.
- c. Sediments bothers a lots, need to get it fixed.
- d. Lots of floating waste disposal, need to maintain and prevent floating disposal.

II.2. The water channel is supposed to be managed by government, water channel is only for water direction not other purposes. On the business area, water channel is used for pedestrians, working area, even for storage area. Other than this, if need to maintain the water channel, the maintenance can be done easily

II.3. The water channel has to be made using solid cements and also using wider sizes. In some part of water channel, no need to make it very tight in order to make easier for inspection/ maintenance.

Solid cements is much stronger compare than made by bricks. They are some advantages when using solid cement top opening, as follow:

- a. The landowner beside water channel not easy to make a change on top of water channel.

- b. People will not doing waste disposal easily.
  - c. Waterchannel maintenance will be easierto do.
- II.4. To make sure the waterchannel free from waste disposal, need to establish waste disposal treatment and improve simultaneously.
- II.5. For water channel drainage beside the river, it will be better to build bigger outlet to make sure the water direction disposal running smoothly.
- II.6. To review water channel dimension and direction especially on the dense or rapid growth area.

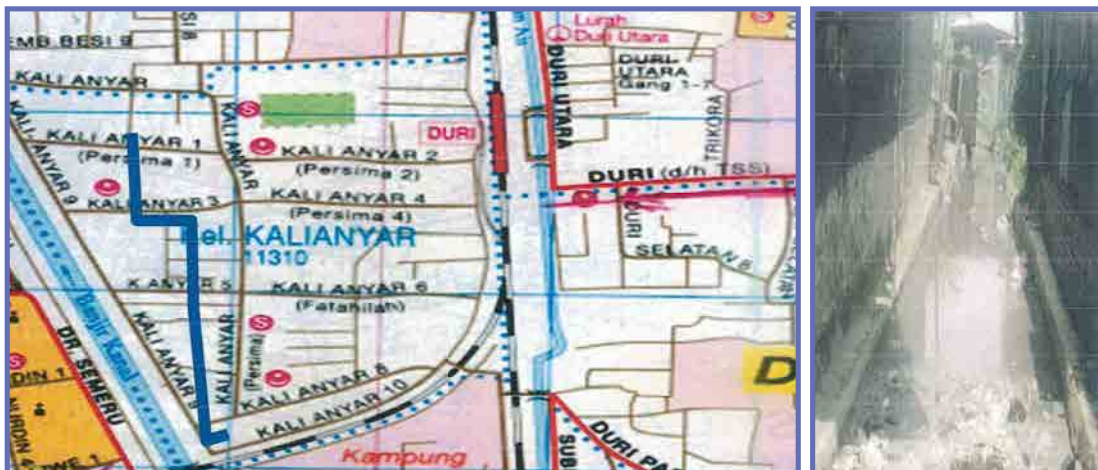
## 7. APPENDIX

### 7.1. Individual Drainage Data Book



#### KECAMATAN TAMBORA

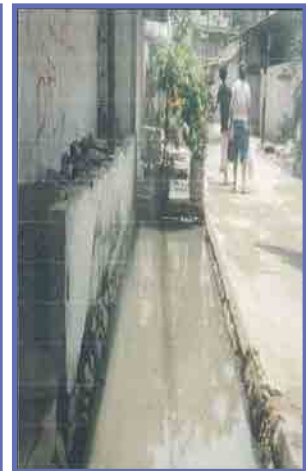
1. Nama Saluran	:	Saluran Phb. Kebon Sayur Sejajar Rel Duri Kel. Jembatan Besi
Panjang	:	255 m
Lebar Atas	:	1,00 m
Lebar Bawah	:	0,80 m
Kedalaman/Tinggi	:	1,00 m
Jenis Konstruksi	:	Batu kali
Kondisi Existing	:	Baik



#### KECAMATAN TAMBORA

2. Nama Saluran	:	Saluran Phb. Kali Anyar Kel. Kali Anyar
Panjang	:	425 m
Lebar Atas	:	2,00 m
Lebar Bawah	:	1,50 m
Kedalaman/Tinggi	:	1,50 m
Jenis Konstruksi	:	Batu kali
Kondisi Existing	:	Baik





KECAMATAN TAMBORA

3.	Nama Saluran	:	Saluran Phb. Kali Anyar VIII Kel. Kali Anyar
	Panjang	:	425 m
	Lebar Atas	:	1,20 m
	Lebar Bawah	:	1,00 m
	Kedalaman/Tinggi	:	1,20 m
	Jenis Konstruksi	:	Batu kali
	Kondisi Existing	:	Baik



KECAMATAN TAMBORA

4.	Nama Saluran	:	Saluran Phb. Jembatan Besi VIII Kel. Jembatan Besi
			Segmen I                      Segmen II
	Panjang	:	124 m                      : 124 m
	Lebar Atas	:	1,00 m                      : 1,20 m
	Lebar Bawah	:	
	Kedalaman/Tinggi	:	1,00 m                      : 1,00 m
	Jenis Konstruksi	:	Beton                      : Beton
	Kondisi Existing	:	

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## KECAMATAN TAMBORA

5. Nama Saluran	:	Saluran Phb. Liberty Kel. Jembatan Besi
Panjang	:	319 m
Lebar Atas	:	1,20 m
Lebar Bawah	:	1,00 m
Kedalaman/Tinggi	:	1,20 m
Jenis Konstruksi	:	Batu kali
Kondisi Existing	:	Baik



## KECAMATAN TAMBORA

6. Nama Saluran	:	Saluran Phb. Kali Anyar Kel. Kali Anyar
Panjang	:	874 m
Lebar Atas	:	1,00 m
Lebar Bawah	:	0,80 m
Kedalaman/Tinggi	:	1,00 m
Jenis Konstruksi	:	Batu kali
Kondisi Existing	:	Baik



KECAMATAN TAMBORA

7.	Nama Saluran	:	Saluran Phb. Sang Si Kel. Tanah Sereal
	Panjang	:	565 m
	Lebar Atas	:	1,50 m
	Lebar Bawah	:	1,20 m
	Kedalaman/Tinggi	:	1,50 m
	Jenis Konstruksi	:	Batu kali
	Kondisi Existing	:	Baik



KECAMATAN TAMBORA

8.	Nama Saluran	:	Saluran Phb. Pejagalan II Kel. Pekojan
	Panjang	:	275 m
	Lebar Atas	:	1,20 m
	Lebar Bawah	:	
	Kedalaman/Tinggi	:	1,20 m
	Jenis Konstruksi	:	Beton
	Kondisi Existing	:	Tertutup





## KECAMATAN TAMBORA

9. Nama Saluran	:	Saluran Phb. Kali Anyar I Kel. Kali Anyar
Panjang	:	452 m
Lebar Atas	:	2,00 m
Lebar Bawah	:	1,20 m
Kedalaman/Tinggi	:	1,20 m
Jenis Konstruksi	:	Batu kali
Kondisi Existing	:	Kurang baik



## KECAMATAN TAMBORA

10. Nama Saluran	:	Saluran Phb. Pejagalan III Kel. Pekojan
Panjang	:	225 m
Lebar Atas	:	0,80 m
Lebar Bawah	:	0,80 m
Kedalaman/Tinggi	:	0,80 m
Jenis Konstruksi	:	Beton
Kondisi Existing	:	Baik



KECAMATAN TAMBORA

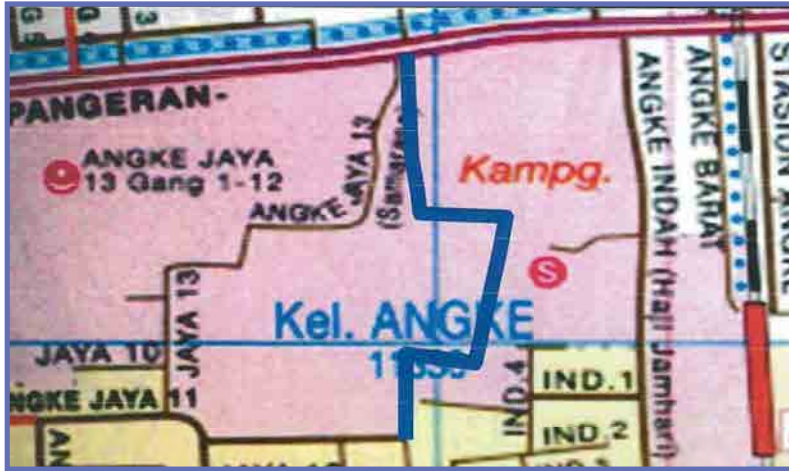
11. Nama Saluran	:	Saluran Phb. Teratai Dalam / Teratai III Kel. Jembatan Lima
Panjang	:	375 m
Lebar Atas	:	1,00 m
Lebar Bawah	:	0,80 m
Kedalaman/Tinggi	:	1,00 m
Jenis Konstruksi	:	Batu kali
Kondisi Existing	:	Baik



KECAMATAN TAMBORA

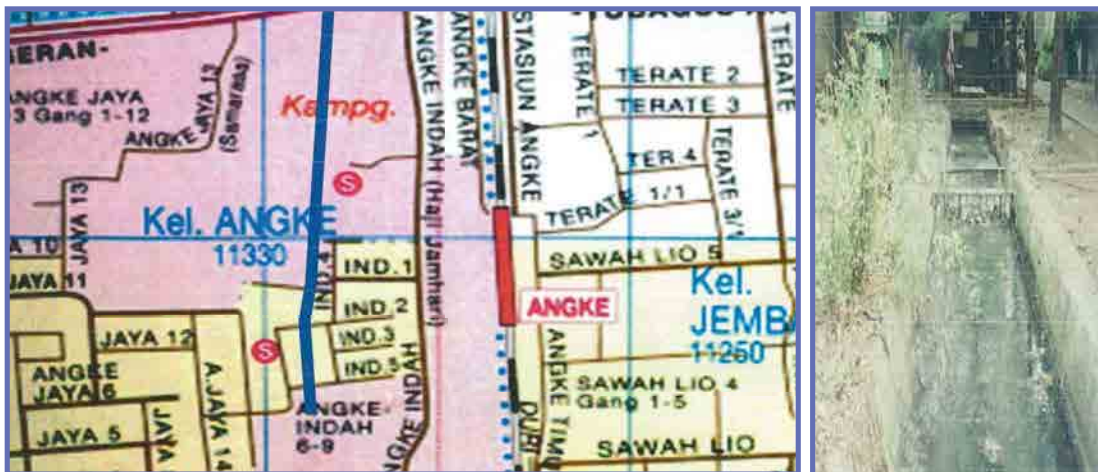
12. Nama Saluran	:	Saluran Phb. Duri Bangkit Kel. Jembatan Lima
Panjang	:	438 m
Lebar Atas	:	2,25 m
Lebar Bawah	:	2,00 m
Kedalaman/Tinggi	:	1,75 m
Jenis Konstruksi	:	Batu kali
Kondisi Existing	:	Baik

REPORT OF EXISTING DRAINAGE SYSTEM



## KECAMATAN TAMBORA

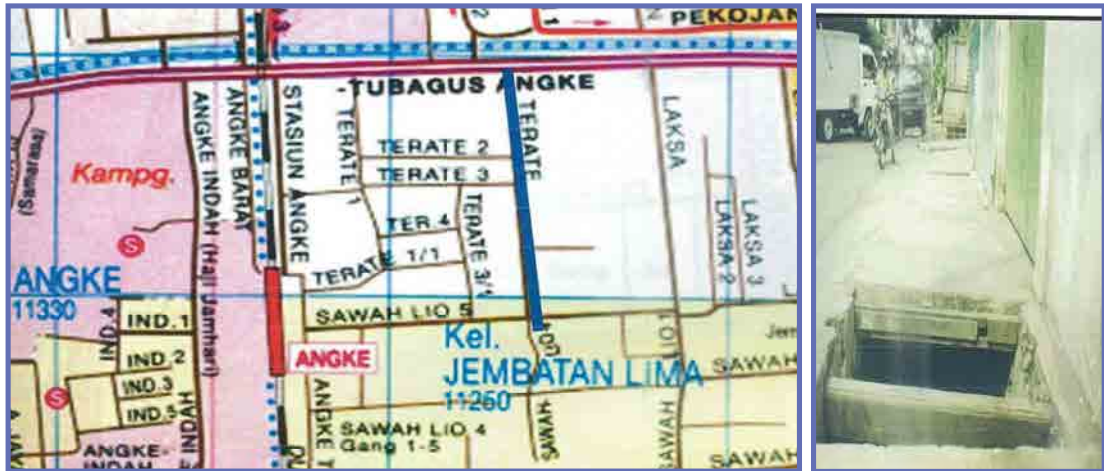
13. Nama Saluran	:	Saluran Phb. Sama Rasa Kel. Angke
Panjang	:	358 m
Lebar Atas	:	1,00 m
Lebar Bawah	:	0,80 m
Kedalaman/Tinggi	:	1,00 m
Jenis Konstruksi	:	Batu kali
Kondisi Existing	:	Baik



## KECAMATAN TAMBORA

14. Nama Saluran	:	Saluran Phb. Kali Anyar Kel. Kali Anyar
Panjang	:	874 m
Lebar Atas	:	1,00 m
Lebar Bawah	:	0,80 m
Kedalaman/Tinggi	:	1,00 m
Jenis Konstruksi	:	Batu kali
Kondisi Existing	:	Baik





KECAMATAN TAMBORA

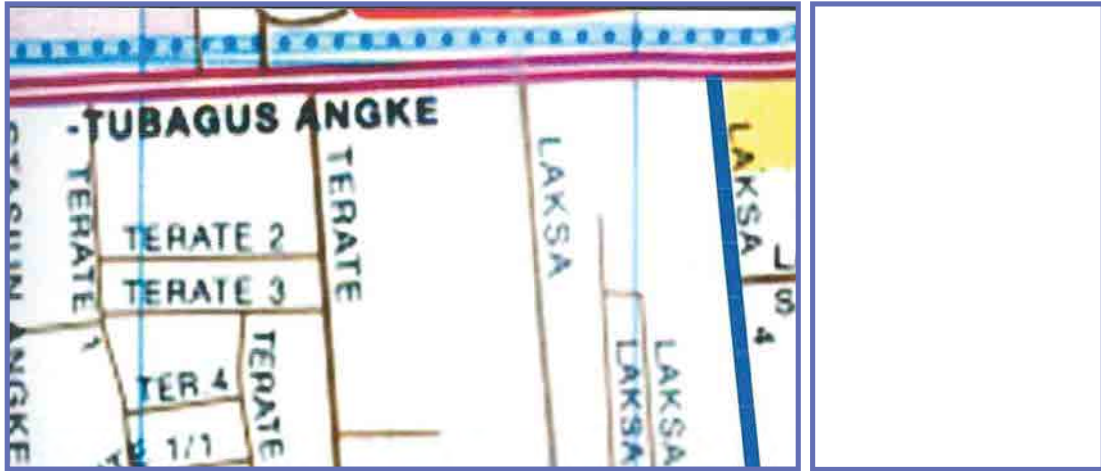
15. Nama Saluran	:	Saluran Phb. Teratai Kel. Jembatan Lima
Panjang	:	375 m
Lebar Atas	:	1,20 m
Lebar Bawah	:	1,00 m
Kedalaman/Tinggi	:	1,20 m
Jenis Konstruksi	:	Batu kali
Kondisi Existing	:	Baik



KECAMATAN TAMBORA

16. Nama Saluran	:	Saluran Phb. Sawah Lio Kel. Jembatan Lima
Panjang	:	375 m
Lebar Atas	:	1,50 m
Lebar Bawah	:	1,20 m
Kedalaman/Tinggi	:	1,50 m
Jenis Konstruksi	:	Batu kali
Kondisi Existing	:	Baik

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## KECAMATAN TAMBORA

17. Nama Saluran	:	Saluran Phb. Laksa IV Kel. Jembatan Lima
Panjang	:	325 m
Lebar Atas	:	1,50 m
Lebar Bawah	:	1,20 m
Kedalaman/Tinggi	:	1,50 m
Jenis Konstruksi	:	Batu kali
Kondisi Existing	:	Baik



## KECAMATAN TAMBORA

18. Nama Saluran	:	Saluran Phb. Cibubur Kel. Jembatan Besi
Panjang	:	680 m
Lebar Atas	:	9,50 m
Lebar Bawah	:	
Kedalaman/Tinggi	:	2,00 m
Jenis Konstruksi	:	Batu kali
Kondisi Existing	:	Baik



KECAMATAN TAMBORA

19. Nama Saluran	:	Saluran Phb. Zainul Arifin Kel. Tanah Sereal
Panjang	:	284 m
Lebar Atas	:	2,50 m
Lebar Bawah	:	2,25 m
Kedalaman/Tinggi	:	2,00 m
Jenis Konstruksi	:	Batu kali
Kondisi Existing	:	Baik



KECAMATAN TAMBORA

20. Nama Saluran	:	Saluran Phb. Mas Mansyur Kel. Jembatan Lima
Panjang	:	655 m
Lebar Atas	:	4,00 m
Lebar Bawah	:	3,50 m
Kedalaman/Tinggi	:	2,00 m
Jenis Konstruksi	:	Beton
Kondisi Existing	:	Baik





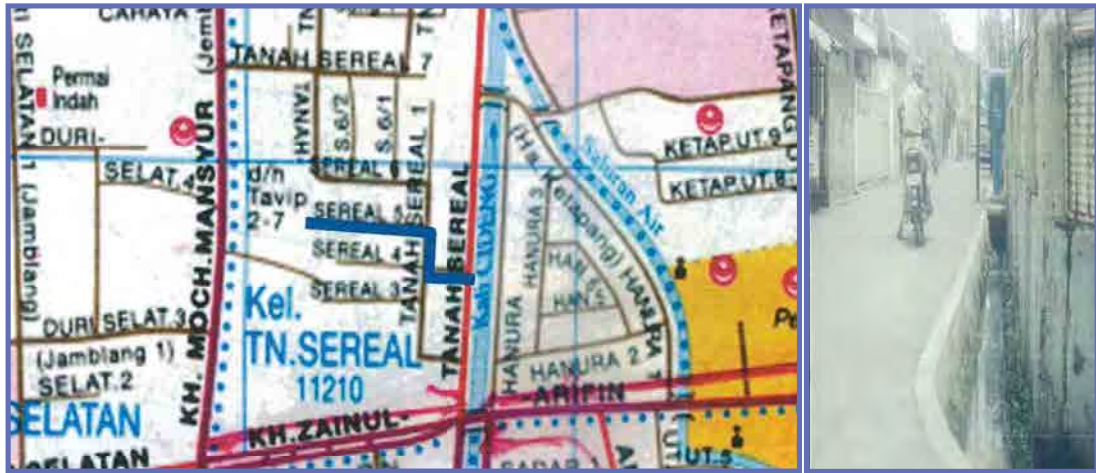
## KECAMATAN TAMBORA

21. Nama Saluran	:	Saluran Phb. Duri Selatan Kel. Duri Selatan
Panjang	:	800 m
Lebar Atas	:	1,50 m
Lebar Bawah	:	1,20 m
Kedalaman/Tinggi	:	1,50 m
Jenis Konstruksi	:	Batu kali
Kondisi Existing	:	Baik



## KECAMATAN TAMBORA

22. Nama Saluran	:	Saluran Phb. Duri (TSS) Kel. Duri Selatan
Panjang	:	685 m
Lebar Atas	:	1,50 m
Lebar Bawah	:	1,20 m
Kedalaman/Tinggi	:	1,50 m
Jenis Konstruksi	:	Batu kali
Kondisi Existing	:	Baik



KECAMATAN TAMBORA

23. Nama Saluran	:	Saluran Phb. Tanah Sereal V Kel. Tanah Sereal
Panjang	:	380 m
Lebar Atas	:	1,00 m
Lebar Bawah	:	0,80 m
Kedalaman/Tinggi	:	1,00 m
Jenis Konstruksi	:	Batu kali
Kondisi Existing	:	Baik



KECAMATAN TAMBORA

24. Nama Saluran	:	Saluran Phb. Lembayung Kel. Duri Utara
Panjang	:	657 m
Lebar Atas	:	1,50 m
Lebar Bawah	:	1,20 m
Kedalaman/Tinggi	:	1,50 m
Jenis Konstruksi	:	Batu kali
Kondisi Existing	:	Baik

REPORT OF EXISTING DRAINAGE SYSTEM



#### KECAMATAN TAMBORA

25. Nama Saluran	:	Saluran Phb. Krendang Kel. Krendang
Panjang	:	850 m
Lebar Atas	:	1,50 m
Lebar Bawah	:	1,20 m
Kedalaman/Tinggi	:	1,50 m
Jenis Konstruksi	:	Batu kali
Kondisi Existing	:	Baik



#### KECAMATAN TAMBORA

26. Nama Saluran	:	Saluran Phb. Pekapuran Kel. Tanah Sereal
Panjang	:	675 m
Lebar Atas	:	1,20 m
Lebar Bawah	:	1,00 m
Kedalaman/Tinggi	:	1,20 m
Jenis Konstruksi	:	Batu kali
Kondisi Existing	:	Baik





KECAMATAN TAMBORA

27. Nama Saluran	:	Saluran Phb. Tambora Kel. Tambora
Panjang	:	425 m
Lebar Atas	:	1,20 m
Lebar Bawah	:	
Kedalaman/Tinggi	:	1,20 m
Jenis Konstruksi	:	Beton
Kondisi Existing	:	



KECAMATAN TAMBORA

28. Nama Saluran	:	Saluran Phb. Tambora V Kel. Tambora
Panjang	:	365 m
Lebar Atas	:	1,20 m
Lebar Bawah	:	1,00 m
Kedalaman/Tinggi	:	1,20 m
Jenis Konstruksi	:	Batu kali
Kondisi Existing	:	



## KECAMATAN TAMBORA

29. Nama Saluran	:	Saluran Phb. Kampung Janis/Pekojan III Kel. Pekojan
Panjang	:	570 m
Lebar Atas	:	1,50 m
Lebar Bawah	:	1,20 m
Kedalaman/Tinggi	:	1,50 m
Jenis Konstruksi	:	Batu kali
Kondisi Existing	:	Baik



## KECAMATAN TAMBORA

30. Nama Saluran	:	Saluran Phb. Pekojan I Kel. Pekojan
Panjang	:	225 m
Lebar Atas	:	1,00 m
Lebar Bawah	:	
Kedalaman/Tinggi	:	1,20 m
Jenis Konstruksi	:	Beton
Kondisi Existing	:	Baik



KECAMATAN TAMBORA

31. Nama Saluran	:	Saluran Phb. Gedong Panjang Kel. Pekojan
Panjang	:	225 m
Lebar Atas	:	1,00 m
Lebar Bawah	:	
Kedalaman/Tinggi	:	1,20 m
Jenis Konstruksi	:	Batu kali
Kondisi Existing	:	Baik



KECAMATAN TAMBORA

32. Nama Saluran	:	Saluran Phb. Gedong Panjang Kel. Pekojan
Panjang	:	575 m
Lebar Atas	:	1,20 m
Lebar Bawah	:	0,80 m
Kedalaman/Tinggi	:	1,20 m
Jenis Konstruksi	:	Batu kali
Kondisi Existing	:	Baik





## KECAMATAN TAMBORA

33. Nama Saluran	:	Saluran Phb. Telepon Kota Kel Roa Malaka
Panjang	:	225 m
Lebar Atas	:	1,50 m
Lebar Bawah	:	1,20 m
Kedalaman/Tinggi	:	1,50 m
Jenis Konstruksi	:	Batu kali
Kondisi Existing	:	

7.2. Photos :

7.2.1 The activities of operation and maintenance at Kecamatan Tambora



Excavation of sedimentation by man power at Jembatan Besi (Tambora)



Taking sacks that contains sediment dredging up truck



Excavation of sedimentation by man power at Saluran PHB Liberty (Tambora)



To put the land of sedimentation that has been dredged into the sacks by man power at PHB Klingkit, Rawa Buaya - Cengkareng



Excavation of sedimentation by mini bac khoe at PHB Klingkit Rawa Buaya - Cengkareng



Road cleansing at PHB Klingkit, Rawa Buaya - Cengkareng

REPORT OF EXISTING DRAINAGE SYSTEM



### 7.2.2. Condition of Drainage in Pilot Survey Area



Clogging KS Tubun (Mas Mansyur)



Clogging at Jl. Kebonpala 2



End of Jl. Kebonpala 9



Clogging at Gg. Mas



Failed Cover at Kebonpala 1



Failed Cover KS Tubun

7.2.3. GUIDANCE OF OPERATION AND MAINTANANCE DRAINAGE CHANNEL  
(SOURCE OF DATA : MINISTRY OF PUBLIC WORKS)



1

Excavated and removed the sediments that settles at the bottom of the channel to the edge of the channel.



2

To packed the sediments and the trash into the plastic sacks

# 3

Open the cover of channel to start the maintenance project on the closed-channel



Gambar 5.4 Membuka Tutup Saluran

# 4

Excavated of sedimentation on the closed-channel



Gambar 5.5 Pembersihan Sedimen Di Saluran Tertutup





Gambar 5.6 Pemisahan Sampah

# 5

The trashes should be excavated first and then to separated it from the sediments



Gambar 5.3 Pengangkutan Karung Sedimen Ke TPS

# 6

Transported the sacks of sediment to the designated location by conveyance



