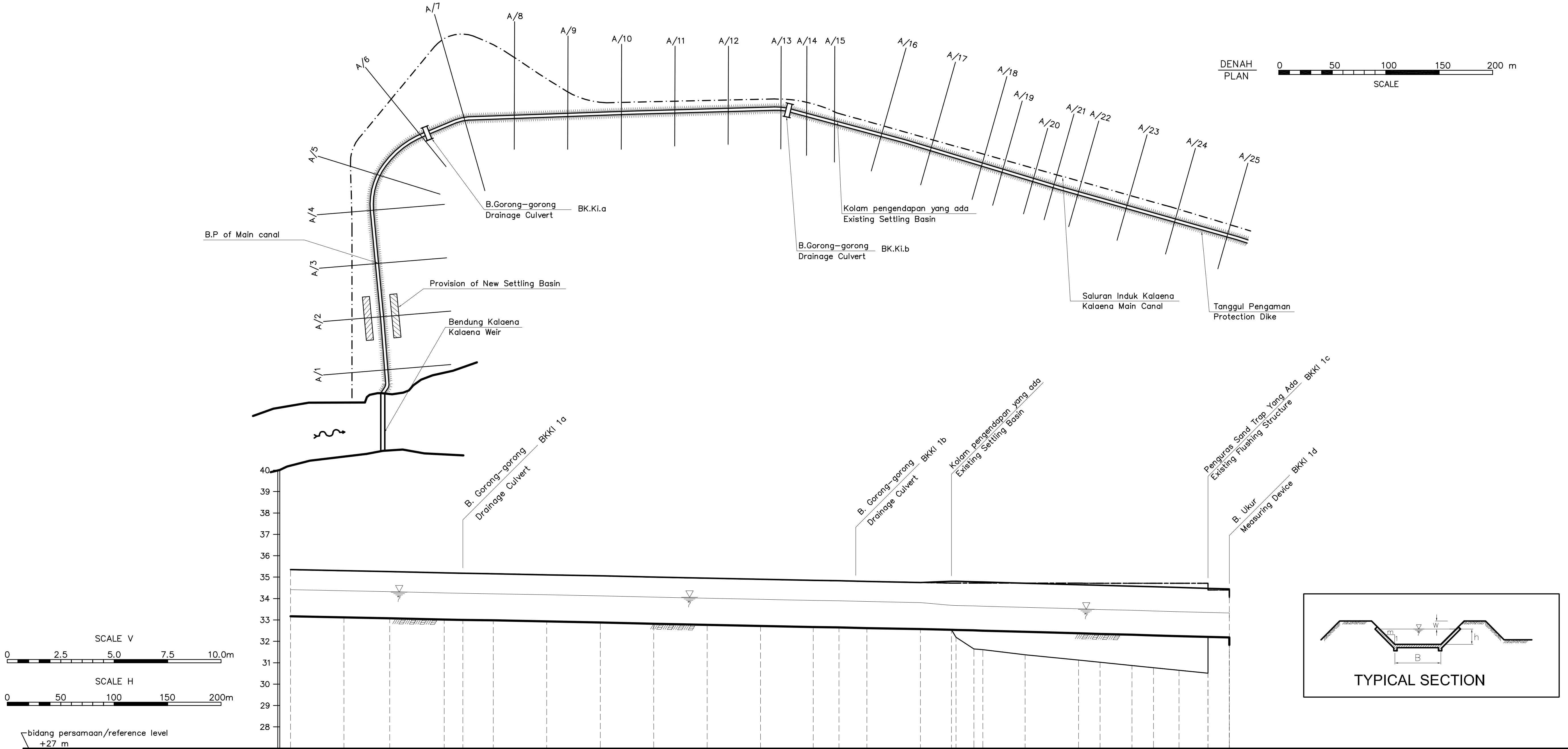


bidang persamaan/reference level +27 m

PATOK HEKTOMETER / HECTOMETER STONE	NOMOR PROFIL / PROFILE NUMBER	JARAK PROFIL/DISTANCE	JARAK LANGSUNG / ACCUMULATED DISTANCE	YANG ADA/EXISTING: ELEVASI TANGGUL KIRI / EXISTING LEFT BANK LEVEL	YANG ADA/EXISTING: ELEVASI TANGGUL KANAN / EXISTING RIGHT BANK LEVEL	YANG ADA/EXISTING: ELEVASI DASAR SALURAN PADA AS / EXISTING CANAL BED LEVEL	YANG ADA/EXISTING: ELEVASI TANAH ASLI PADA AS SALURAN / GROUND LEVEL IN CENTER LINE	RENCANA/DESIGN: ELEVASI TANGGUL / BANK LEVEL	RENCANA/DESIGN: ELEVASI MUKA AIR RENCANA / DESIGN WATER LEVEL	RENCANA/DESIGN: ELEVASI DASAR SALURAN / CANAL BED LEVEL
HM 0	A/3		0.00	35.35	35.35	33.17	33.17	35.35	34.41	33.17
		50.0								
	A/4		50.00	35.30	35.30	33.12	33.12	35.30	34.36	33.12
		42.7								
	A/5		92.70	35.26	35.26	33.08	33.08	35.26	34.32	33.08
HM 1		51.0								
	A/6		143.70	35.20	35.20	33.02	33.02	35.20	34.26	33.02
		17.5								
			161.20	35.18	35.18	33.00	33.00	35.18	34.24	33.00
		28.5								
	A/7		189.70	35.16	35.16	32.98	32.98	35.16	34.22	32.98
HM 2		50.0								
	A/8		239.70	35.11	35.11	32.93	32.93	35.11	34.17	32.93
		50.0								
	A/9		289.70	35.06	35.06	32.88	32.88	35.06	34.12	32.88
HM 3		50.0								
	A/10		339.70	35.00	35.00	32.82	32.82	35.00	34.06	32.82
		50.0								
	A/11		389.70	34.95	34.95	32.77	32.77	34.95	34.01	32.77
HM 4		50.0								
	A/12		439.70	34.90	34.90	32.72	32.72	34.90	33.96	32.72
		49.3								
	A/13		489.00	34.85	34.85	32.67	32.67	34.85	33.91	32.67
HM 5		39.7								
				34.83	34.83	32.65	32.65	34.83	33.89	32.65
			528.70							
	A/14		539.20	34.80	34.80	32.62	32.62	34.80	33.86	32.62
		50.0								
	A/15		589.20	34.75	34.75	32.57	32.57	34.75	33.81	32.57
HM 6		29.1								
			618.30	34.72	34.72	32.54	32.54	34.81	33.68	32.54
		20.9		34.72	34.72	32.19	32.19	34.80	33.68	32.53
	A/16		639.20	34.72	34.72	31.64	31.64	34.78	33.65	32.51
				34.72	34.72	31.61	31.61	34.77	33.64	32.50
		48.0								
	A/17		687.20	34.72	34.72	31.37	31.37	34.71	33.59	32.44
HM 7		50.0								
	A/18		737.20	34.72	34.72	31.12	31.12	34.65	33.52	32.38
		20.0								
	A/19		757.20	34.71	34.71	31.02	31.02	34.62	33.49	32.35
HM 8		30.0								
	A/20		787.20	34.71	34.71	30.87	30.87	34.58	33.45	32.31
		20.0								
	A/21		807.20	34.71	34.71	30.77	30.77	34.55	33.42	32.28
		24.0								
	A/22		831.20	34.71	34.71	30.65	30.65	34.52	33.39	32.25
		27.0								
			858.20	34.71	34.71	30.51	30.51	34.48	33.35	32.21
		20.0		34.40	34.40	32.18	32.18	34.48	33.35	32.21
	0		878.20	34.40	34.40	32.18	32.18	34.45	33.32	32.18
				34.05	34.05	31.83	31.83	34.10	33.11	31.83

DIMENSI SALURAN DAN DATA TAMBAHAN / CANAL DIMENSIONS AND ADDITIONAL DATA (Q V k / B h w / m I A):

A/3 – 618.30: Q = 6.257 m^3/s V = 1.34 m/s k = 50.0 B = 2.50 m h = 1.24 m w = 0.94 m m = 1.00 i = 981

618.30 – 878.20: Q = 6.257m3/s V = 1.45 m/s k = 50.0 B = 2.50 m h = 1.14 m w = 1.13 m m = 1.50 i = 722

TIPE BANGUNAN / TYPE OF STRUCTURE

RENCANA PERBAIKAN / REHABILITATION PLAN:

Rehabilitation Grade (Until Hm 15+19.4) — Canal : RG 1 (750m), RG 2 (400m), RG 3 (369m) — Inspection Road : RG 2

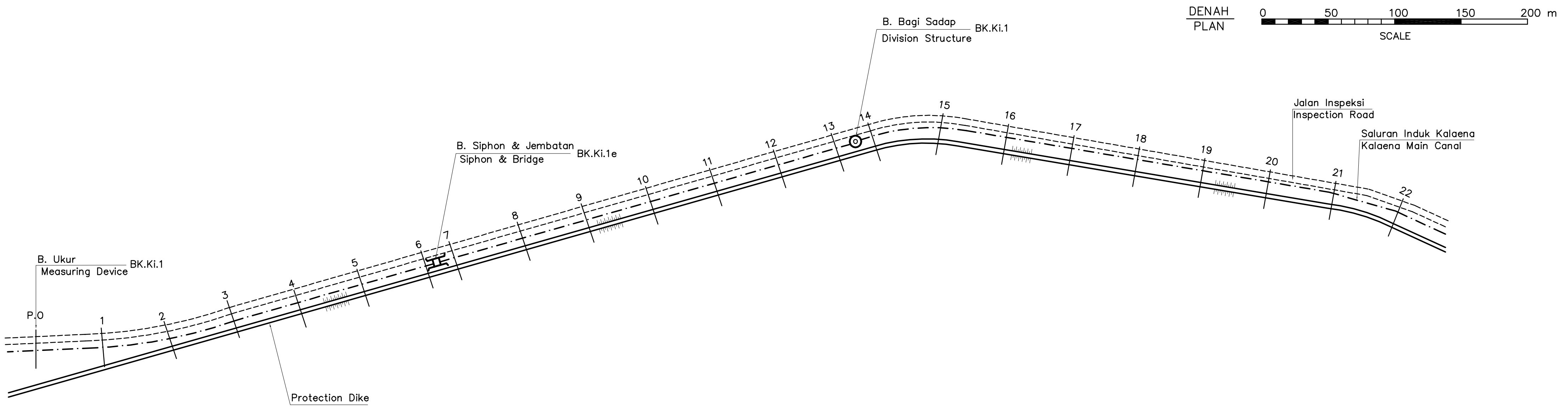
RG 2 — RG 2 — RG 2 — RG 1 — RG 2

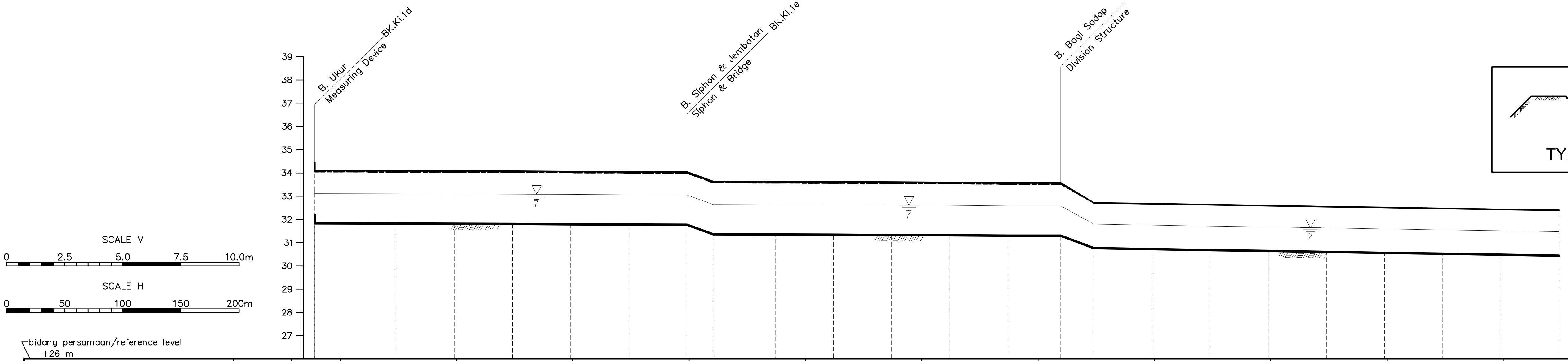
Rehabilitation Grade : RG 1 (no rehabilitation)
RG 2 (minor rehabilitation)
RG 3 (large scale rehabilitation)
RG 4 (replacement or new construction)

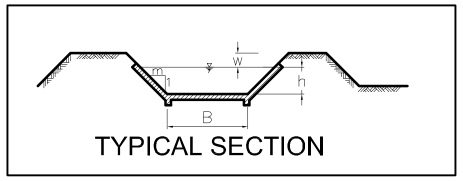
The Study on Comprehensive Recovery Program of Irrigation Agriculture

Japan International Cooperation Agency

Drawing 300-03
Kalaena Kiri Irrigation Scheme
Plan & Profile of Main Canal (1/20)







TYPICAL SECTION

bidang persamaan/reference level
+26 m

	PATOK HEKTOMETER HECTOMETER STONE			HM 9				HM 10				HM 11				HM 12	
	NOMOR PROFIL PROFILE NUMBER		0		1		2		3		4		5		6		7
	JARAK PROFIL/DISTANCE JARAK LANGSUNG ACCUMULATED DISTANCE		878.20	70.0	948.20	50.0	998.20	50.0	1,048.20	50.0	1,098.20	50.0	1,148.20	50.0	1,198.20	22.4	1,220.60
YANG ADA/EXISTING	ELEVASI TANGGUL KIRI EXISTING LEFT BANK LEVEL	─·─	34.40 34.05		34.04		34.03		34.02		34.01		34.00		33.99		33.58
	ELEVASI TANGGUL KANAN EXISTING RIGHT BANK LEVEL	-----	34.40 34.05		34.04		34.03		34.02		34.01		34.00		33.99		33.58
	ELEVASI DASAR SALURAN PADA AS EXISTING CANAL BED LEVEL	───	32.18 31.83		31.82		31.81		31.80		31.79		31.78		31.77		31.36
	ELEVASI TANAH ASLI PADA AS SALURAN GROUND LEVEL IN CENTER LINE	······	32.18 31.83		31.82		31.81		31.80		31.79		31.78		31.77		31.36
RENCANA/DESIGN	ELEVASI TANGGUL BANK LEVEL	━━━	34.45 34.10		34.09		34.08		34.07		34.06		34.05		34.04		33.63
	ELEVASI MUKA AIR RENCANA DESIGN WATER LEVEL	▽	33.24 33.11		33.10		33.09		33.08		33.07		33.06		33.05		32.64
	ELEVASI DASAR SALURAN CANAL BED LEVEL	━━━	32.18 31.83		31.82		31.81		31.80		31.79		31.78		31.77		31.36
	DIMENSI SALURAN DAN DATA TAMBAHAN CANAL DIMENSIONS AND ADDITIONAL DATA	Q V k B h w m I A		Q = 6.257m3/s V = 0.67m/s k = 50.0 B = 5.40m h = 1.28m w = 0.99m m = 1.50 i = 5,157													
	TIPE BANGUNAN TYPE OF STRUCTURE		▭												⌶		
	RENCANA PERBAIKAN REHABILITATION PLAN		RG 2	Rehabilitation Grade (Until Hm 15+19.4) Canal : RG 1 (750m), RG 2 (400m), RG 3 (369m) Inspection Road : RG 2											RG 2		

	PATOK HEKTOMETER HECTOMETER STONE				HM 13				HM 14				HM 15	
	NOMOR PROFIL PROFILE NUMBER	7		8		9		10		11		12		13
	JARAK PROFIL/DISTANCE JARAK LANGSUNG ACCUMULATED DISTANCE	1,220.60	53.4	1,274.00	50.0	1,324.00	50.0	1,374.00	50.0	1,424.00	50.0	1,474.00	45.4	1,519.40
YANG ADA/EXISTING	ELEVASI TANGGUL KIRI EXISTING LEFT BANK LEVEL	33.58		33.57		33.56		33.55		33.54		33.52		33.52
	ELEVASI TANGGUL KANAN EXISTING RIGHT BANK LEVEL	33.58		33.57		33.56		33.55		33.54		33.52		33.52
	ELEVASI DASAR SALURAN PADA AS EXISTING CANAL BED LEVEL	31.36		31.35		31.34		31.33		31.32		31.30		31.30
	ELEVASI TANAH ASLI PADA AS SALURAN GROUND LEVEL IN CENTER LINE	31.36		31.35		31.34		31.33		31.32		31.30		31.30
RENCANA/DESIGN	ELEVASI TANGGUL BANK LEVEL	33.63		33.62		33.61		33.60		33.59		33.57		33.57
	ELEVASI MUKA AIR RENCANA DESIGN WATER LEVEL	32.64		32.63		32.62		32.61		32.60		32.58		32.58
	ELEVASI DASAR SALURAN CANAL BED LEVEL	31.36		31.35		31.34		31.33		31.32		31.30		31.30
	DIMENSI SALURAN DAN DATA TAMBAHAN CANAL DIMENSIONS AND ADDITIONAL DATA													
	TIPE BANGUNAN TYPE OF STRUCTURE													◎
	RENCANA PERBAIKAN REHABILITATION PLAN													RG 2

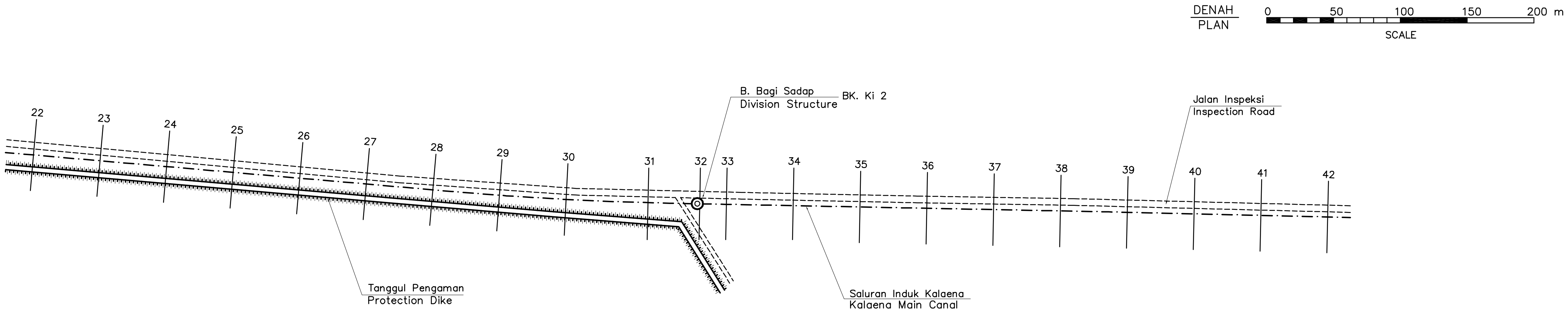
	PATOK HEKTOMETER HECTOMETER STONE					HM 16				HM 17				HM 18				HM 19		
	NOMOR PROFIL PROFILE NUMBER	13		14		15		16		17		18		19		20		21		22
	JARAK PROFIL/DISTANCE JARAK LANGSUNG ACCUMULATED DISTANCE	1,519.40	28.6	1,548.00	50.0	1,598.00	50.0	1,648.00	50.0	1,698.00	50.0	1,748.00	50.0	1,798.00	50.0	1,848.00	50.0	1,898.00	50.0	1,948.00
YANG ADA/EXISTING	ELEVASI TANGGUL KIRI EXISTING LEFT BANK LEVEL	33.52		32.71		32.67		32.63		32.59		32.55		32.51		32.47		32.43		32.39
	ELEVASI TANGGUL KANAN EXISTING RIGHT BANK LEVEL	33.52		32.71		32.67		32.63		32.59		32.55		32.51		32.47		32.43		32.39
	ELEVASI DASAR SALURAN PADA AS EXISTING CANAL BED LEVEL	31.30		30.76		30.72		30.68		30.64		30.60		30.56		30.52		30.48		30.44
	ELEVASI TANAH ASLI PADA AS SALURAN GROUND LEVEL IN CENTER LINE	31.30		30.76		30.72		30.68		30.64		30.60		30.56		30.52		30.48		30.44
RENCANA/DESIGN	ELEVASI TANGGUL BANK LEVEL	33.57		32.71		32.67		32.63		32.59		32.55		32.51		32.47		32.43		32.39
	ELEVASI MUKA AIR RENCANA DESIGN WATER LEVEL	32.58		31.79		31.75		31.71		31.67		31.63		31.59		31.55		31.51		31.47
	ELEVASI DASAR SALURAN CANAL BED LEVEL	31.30		30.76		30.72		30.68		30.64		30.60		30.56		30.52		30.48		30.44
	DIMENSI SALURAN DAN DATA TAMBAHAN CANAL DIMENSIONS AND ADDITIONAL DATA			Q = 5.754m3/s V = 1.11m/s k = 50.0 B = 3.50m h = 1.03m w = 0.92m m = 1.50 i = 1,324																
	TIPE BANGUNAN TYPE OF STRUCTURE	◎																		
	RENCANA PERBAIKAN REHABILITATION PLAN	RG 2	Rehabilitation Grade (Until Hm 24+08.5) Canal : RG 1 (500m), RG 2 (250m), RG 3 (140m) Inspection Road : RG 2																	

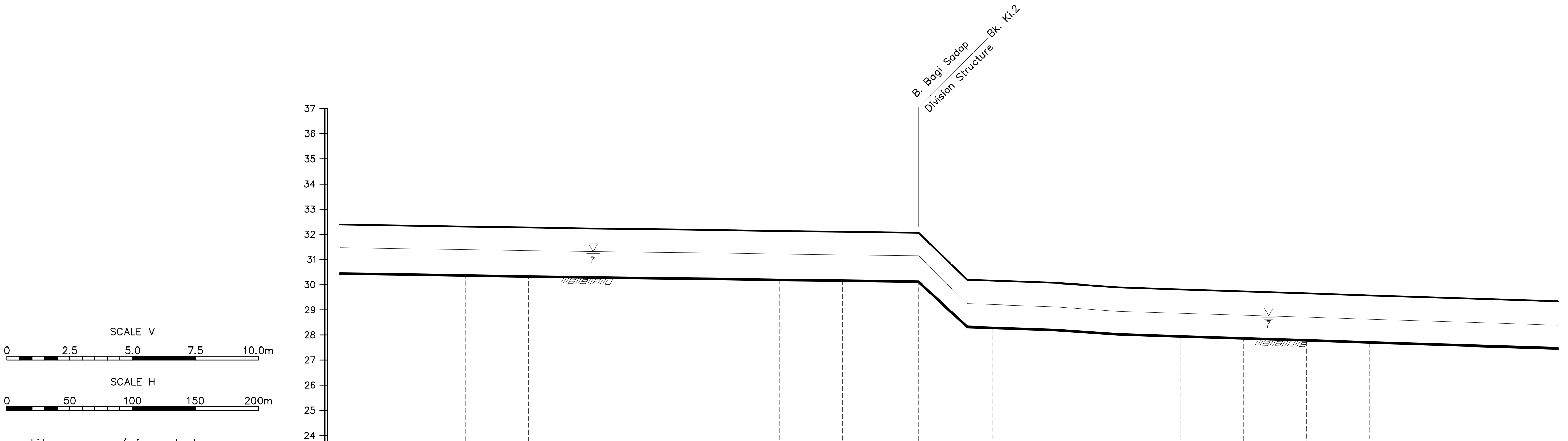
Rehabilitation Grade : RG 1 (no rehabilitation)
RG 2 (minor rehabilitation)
RG 3 (large scale rehabilitation)
RG 4 (replacement or new construction)

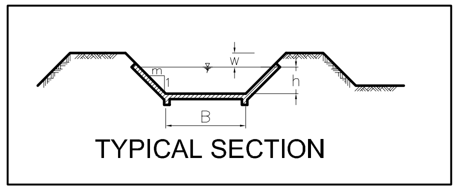
The Study on Comprehensive Recovery Program of Irrigation Agriculture

Japan International Cooperation Agency

Drawing 300-04
Kalaena Kiri Irrigation Scheme
Plan & Profile of Main Canal (2/20)







TYPICAL SECTION

bidang persamaan/reference level
+23 m

		22		23		24		25		26		27		28		29		30
PATOK HEKTOMETER HECTOMETER STONE				HM 20				HM 21				HM 22				HM 23		
NOMOR PROFIL PROFILE NUMBER		22		23		24		25		26		27		28		29		30
JARAK PROFIL/DISTANCE JARAK LANGSUNG ACCUMULATED DISTANCE		1,948.00	50.0	1,998.00	50.0	2,048.00	50.0	2,098.00	50.0	2,148.00	50.0	2,198.00	50.0	2,248.00	50.0	2,298.00	50.0	2,348.00
YANG ADA/EXISTING: ELEVASI TANGGUL KIRI EXISTING LEFT BANK LEVEL	—·—·—	32.39		32.35		32.31		32.27		32.23		32.20		32.17		32.13		32.10
ELEVASI TANGGUL KANAN EXISTING RIGHT BANK LEVEL	-------	32.39		32.35		32.31		32.27		32.23		32.20		32.17		32.13		32.10
ELEVASI DASAR SALURAN PADA AS EXISTING CANAL BED LEVEL	——	30.44		30.40		30.36		30.32		30.28		30.25		30.22		30.18		30.15
ELEVASI TANAH ASLI PADA AS SALURAN GROUND LEVEL IN CENTER LINE	········	30.44		30.40		30.36		30.32		30.28		30.25		30.22		30.18		30.15
RENCANA/DESIGN: ELEVASI TANGGUL BANK LEVEL	▬▬	32.39		32.35		32.31		32.27		32.23		32.20		32.17		32.13		32.10
ELEVASI MUKA AIR RENCANA DESIGN WATER LEVEL	▽	31.47		31.43		31.39		31.35		31.31		31.28		31.25		31.21		31.18
ELEVASI DASAR SALURAN CANAL BED LEVEL	▬▬	30.44		30.40		30.36		30.32		30.28		30.25		30.22		30.18		30.15
DIMENSI SALURAN DAN DATA TAMBAHAN CANAL DIMENSIONS AND ADDITIONAL DATA	Q V k B h w m l A	Q = 5.754m3/s ,V = 1.11m/s k = 50.0 B = 3.50m h = 1.03 m w = 0.92 m m = 1.50 i = 1,324																
TIPE BANGUNAN TYPE OF STRUCTURE																		
RENCANA PERBAIKAN REHABILITATION PLAN		Rehabilitation Grade (Until Hm 24+08.5) Canal : RG 1 (500m), RG 2 (250m), RG 3 (140m) Inspection Road : RG 2																

			31		32		33		34		35		36		37		38		39		40		41		42
PATOK HEKTOMETER HECTOMETER STONE			HM 24						HM 25				HM 26				HM 27				HM 28				HM 29
NOMOR PROFIL PROFILE NUMBER			31		32		33		34		35		36		37		38		39		40		41		42
JARAK PROFIL/DISTANCE JARAK LANGSUNG ACCUMULATED DISTANCE		60.5	2,408.50	38.7	2,447.20	20.0	2,467.20	50.0	2,517.20	50.0	2,567.20	50.0	2,617.20	50.0	2,667.20	50.0	2,717.20	50.0	2,767.20	50.0	2,817.20	50.0	2,867.20	50.0	2,917.20
YANG ADA/EXISTING: ELEVASI TANGGUL KIRI EXISTING LEFT BANK LEVEL	—·—·—		32.06		30.19		30.15		30.07		29.89		29.81		29.73		29.65		29.57		29.49		29.41		29.33
ELEVASI TANGGUL KANAN EXISTING RIGHT BANK LEVEL	-------		32.06		30.19		30.15		30.07		29.89		29.81		29.73		29.65		29.57		29.49		29.41		29.33
ELEVASI DASAR SALURAN PADA AS EXISTING CANAL BED LEVEL	——		30.11		28.32		28.28		28.20		28.02		27.94		27.86		27.78		27.70		27.62		27.54		27.46
ELEVASI TANAH ASLI PADA AS SALURAN GROUND LEVEL IN CENTER LINE	········		30.11		28.32		28.28		28.20		28.02		27.94		27.86		27.78		27.70		27.62		27.54		27.46
RENCANA/DESIGN: ELEVASI TANGGUL BANK LEVEL	▬▬		32.06		30.19		30.15		30.07		29.89		29.81		29.73		29.65		29.57		29.49		29.41		29.33
ELEVASI MUKA AIR RENCANA DESIGN WATER LEVEL	▽		31.14		29.24		29.20		29.12		28.94		28.86		28.78		28.70		28.62		28.54		28.46		28.38
ELEVASI DASAR SALURAN CANAL BED LEVEL	▬▬		30.11		28.32		28.28		28.20		28.02		27.94		27.86		27.78		27.70		27.62		27.54		27.46
DIMENSI SALURAN DAN DATA TAMBAHAN CANAL DIMENSIONS AND ADDITIONAL DATA	Q V k B h w m l A					Q=5.572m3/s V=1.45 m/s k=50.0 B=2.80m h=0.92m w=0.95m m=1.50 i=643																			
TIPE BANGUNAN TYPE OF STRUCTURE			Ⓠ																						
RENCANA PERBAIKAN REHABILITATION PLAN			RG 2	Rehabilitation Grade (until Hm 34+81.7) Canal : RG 1 (500m), RG 2 (250m), RG 3 (232m) Inspection Road : RG 2																					

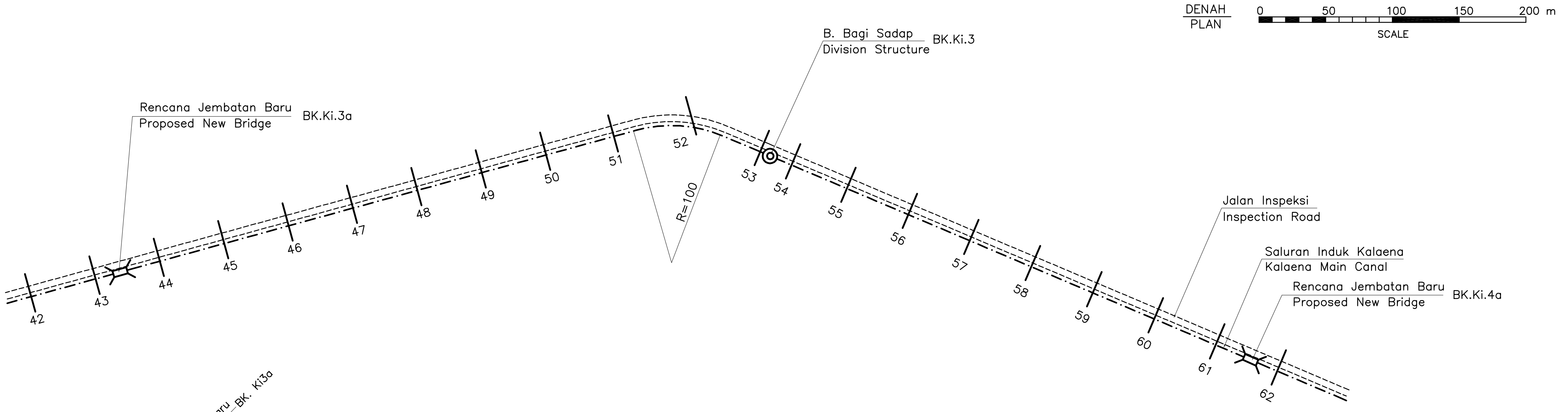
Rehabilitation Grade : RG 1 (no rehabilitation)
RG 2 (minor rehabilitation)
RG 3 (large scale rehabilitation)
RG 4 (replacement or new construction)

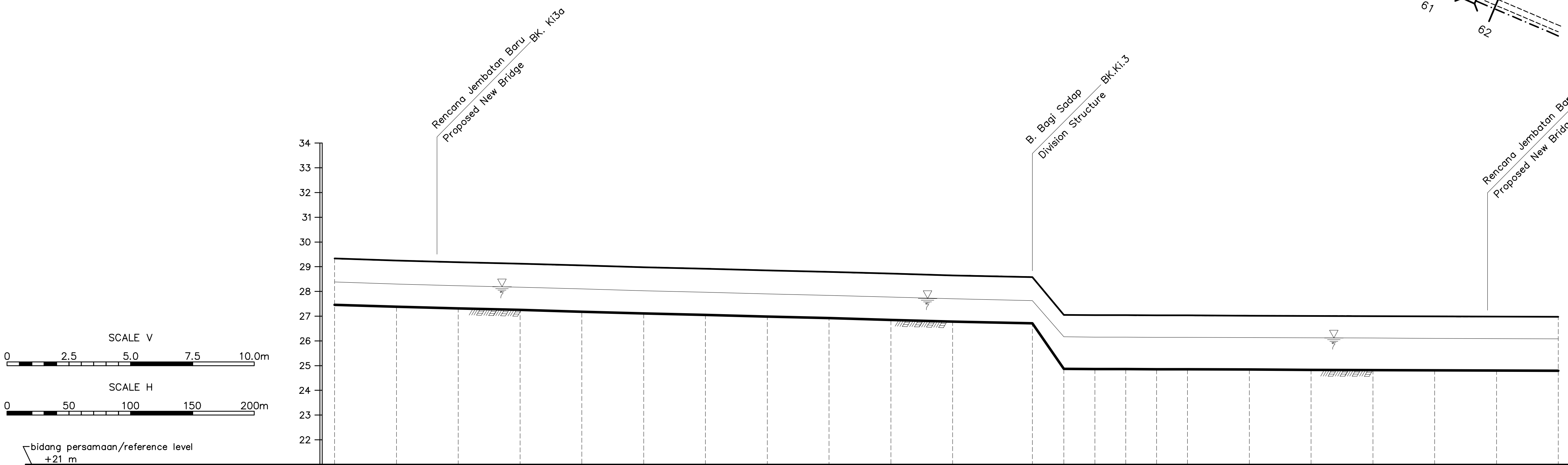
The Study on Comprehensive Recovery Program of Irrigation Agriculture

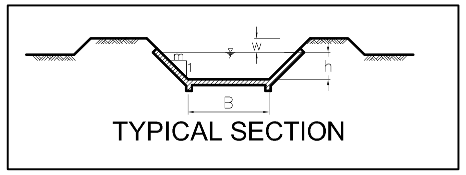
Japan International Cooperation Agency

Drawing 300-05

Kalaena Kiri Irrigation Scheme
Plan & Profile of Main Canal (3/20)







TYPICAL SECTION

bidang persamaan/reference level
+21 m

			HM 30						HM 31				HM 32			
	NOMOR PROFIL PROFILE NUMBER		42		43				44		45		46		47		48
	JARAK PROFIL/DISTANCE JARAK LANGSUNG ACCUMULATED DISTANCE		2,917.20	50.0	2,967.20	32.8	3,000.00	17.2	3,017.20	50.0	3,067.20	50.0	3,117.20	50.0	3,167.20	50.0	3,217.20
YANG ADA/EXISTING	ELEVASI TANGGUL KIRI EXISTING LEFT BANK LEVEL	— · — · —	29.33		29.25				29.18		29.12		29.05		28.98		28.92
	ELEVASI TANGGUL KANAN EXISTING RIGHT BANK LEVEL	- - - - - - -	29.33		29.25				29.18		29.12		29.05		28.98		28.92
	ELEVASI DASAR SALURAN PADA AS EXISTING CANAL BED LEVEL	———	27.46		27.38				27.31		27.25		27.18		27.11		27.05
	ELEVASI TANAH ASLI PADA AS SALURAN GROUND LEVEL IN CENTER LINE	⋯⋯⋯	27.46		27.38				27.31		27.25		27.18		27.11		27.05
RENCANA/DESIGN	ELEVASI TANGGUL BANK LEVEL	━━━	29.33		29.25				29.18		29.12		29.05		28.98		28.92
	ELEVASI MUKA AIR RENCANA DESIGN WATER LEVEL	▽	28.38		28.30				28.23		28.17		28.10		28.03		27.97
	ELEVASI DASAR SALURAN CANAL BED LEVEL	▬	27.46		27.38				27.31		27.25		27.18		27.11		27.05

			HM 33				HM 34				HM 35					
NOMOR PROFIL PROFILE NUMBER		49		50		51		52		53		54		54a		55
JARAK PROFIL/DISTANCE JARAK LANGSUNG ACCUMULATED DISTANCE	50.0	3,267.20	50.0	3,317.20	50.0	3,367.20	50.0	3,417.20	64.5	3,481.70	25.5	3,507.20	25.0	3,532.20	25.0	3,557.20
ELEVASI TANGGUL KIRI EXISTING LEFT BANK LEVEL		28.85		28.79		28.72		28.65		28.58		27.05		27.04		27.04
ELEVASI TANGGUL KANAN EXISTING RIGHT BANK LEVEL		28.85		28.79		28.72		28.65		28.58		27.05		27.04		27.04
ELEVASI DASAR SALURAN PADA AS EXISTING CANAL BED LEVEL		26.98		26.92		26.85		26.78		26.71		24.87		24.86		24.86
ELEVASI TANAH ASLI PADA AS SALURAN GROUND LEVEL IN CENTER LINE		26.98		26.92		26.85		26.78		26.71		24.87		24.86		24.86
ELEVASI TANGGUL BANK LEVEL		28.85		28.79		28.72		28.65		28.58		27.05		27.04		27.04
ELEVASI MUKA AIR RENCANA DESIGN WATER LEVEL		27.90		27.84		27.77		27.70		27.63		26.16		26.15		26.15
ELEVASI DASAR SALURAN CANAL BED LEVEL		26.98		26.92		26.85		26.78		26.71		24.87		24.86		24.86

			HM 36								HM 37	
NOMOR PROFIL PROFILE NUMBER		55a		56		56a		57		57a		58
JARAK PROFIL/DISTANCE JARAK LANGSUNG ACCUMULATED DISTANCE	25.0	3,582.20	25.0	3,607.20	25.0	3,632.20	25.0	3,657.20	25.0	3,682.20	25.0	3,707.20
ELEVASI TANGGUL KIRI EXISTING LEFT BANK LEVEL		27.03		27.03				27.02				27.01
ELEVASI TANGGUL KANAN EXISTING RIGHT BANK LEVEL		27.03		27.03				27.02				27.01
ELEVASI DASAR SALURAN PADA AS EXISTING CANAL BED LEVEL		24.85		24.85				24.84				24.83
ELEVASI TANAH ASLI PADA AS SALURAN GROUND LEVEL IN CENTER LINE		24.85		24.85				24.84				24.83
ELEVASI TANGGUL BANK LEVEL		27.03		27.03				27.02				27.01
ELEVASI MUKA AIR RENCANA DESIGN WATER LEVEL		26.14		26.14				26.13				26.12
ELEVASI DASAR SALURAN CANAL BED LEVEL		24.85		24.85				24.84				24.83

							HM 38								HM 39	
NOMOR PROFIL PROFILE NUMBER		58a		59		59a		60		60a			61		61a		62
JARAK PROFIL/DISTANCE JARAK LANGSUNG ACCUMULATED DISTANCE	25.0	3,732.20	25.0	3,757.20	25.0	3,782.20	25.0	3,807.20	25.0	3,832.20	17.8	3,850.00	3,857.20	25.0	3,882.20	25.0	3,907.20
ELEVASI TANGGUL KIRI EXISTING LEFT BANK LEVEL				27.00				26.99					26.98				26.97
ELEVASI TANGGUL KANAN EXISTING RIGHT BANK LEVEL				27.00				26.99					26.98				26.97
ELEVASI DASAR SALURAN PADA AS EXISTING CANAL BED LEVEL				24.82				24.81					24.80				24.79
ELEVASI TANAH ASLI PADA AS SALURAN GROUND LEVEL IN CENTER LINE				24.82				24.81					24.80				24.79
ELEVASI TANGGUL BANK LEVEL				27.00				26.99					26.98				26.97
ELEVASI MUKA AIR RENCANA DESIGN WATER LEVEL				26.11				26.10					26.09				26.08
ELEVASI DASAR SALURAN CANAL BED LEVEL				24.82				24.81					24.80				24.79

DIMENSI SALURAN DAN DATA TAMBAHAN CANAL DIMENSIONS AND ADDITIONAL DATA	Q V k B h w m I A	Q =5.572m3/s V=1.45m/s k=50.0 B=2.80m h=0.92m w=0.95m m= 1.50 i = 640	Q =5.372m3/s v =0.65m/s k = 50.0 B=4.45m h=1.29m w = 0.89m m=1.50 i = 5,197
TIPE BANGUNAN TYPE OF STRUCTURE		⌶	◎ ⌶
RENCANA PERBAIKAN REHABILITATION PLAN		Rehabilitation Grade (Until Hm 34+81.7) Canal : RG 1 (500m), RG 2 (250m), RG 3 (232m) Inspection Road RG 2 RG 4	Rehabilitation Grade (Until Hm 43+38.7) Canal : RG 1 (400m), RG 2 (250m), RG 3 (207m) Inspection Road : RG 2 RG 3 RG 4

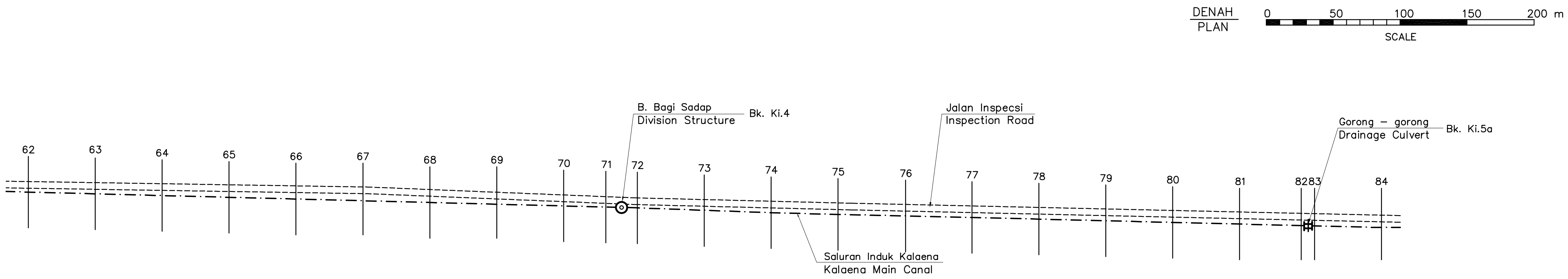
Rehabilitation Grade : RG 1 (no rehabilitation)
RG 2 (minor rehabilitation)
RG 3 (large scale rehabilitation)
RG 4 (replacement or new construction)

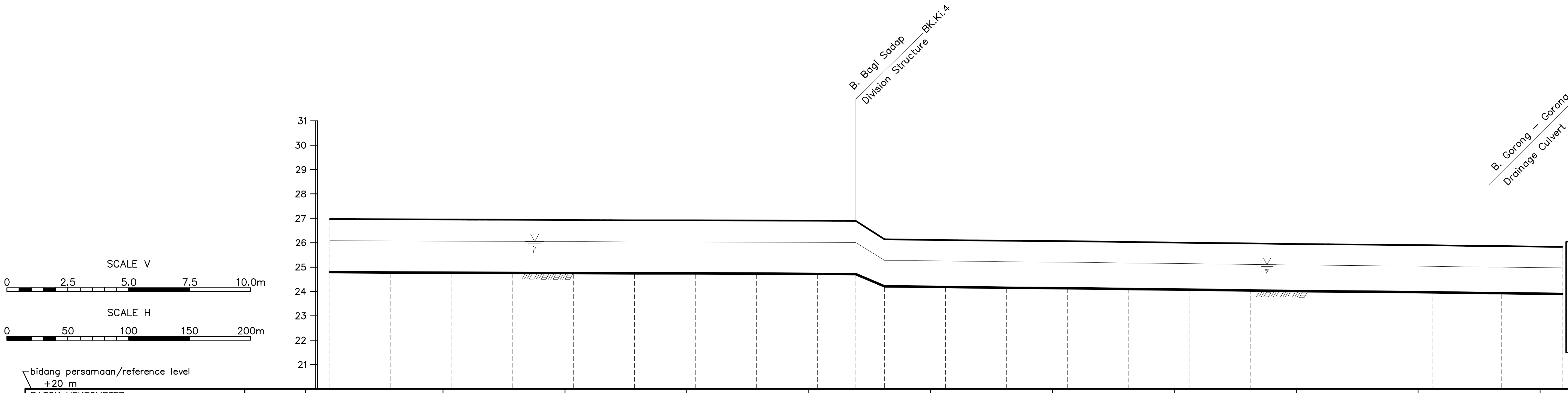
The Study on Comprehensive Recovery Program of Irrigation Agriculture

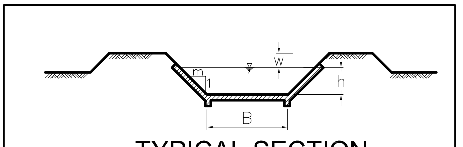
Japan International Cooperation Agency

Drawing 300-06

Kalaena Kiri Irrigation Scheme
Plan & Profile of Main Canal (4/20)







TYPICAL SECTION

PATOK HEKTOMETER HECTOMETER STONE						HM 40				HM 41				HM 42				HM 43				
NOMOR PROFIL PROFILE NUMBER		62		63		64		65		66		67		68		69		70		71		72
JARAK PROFIL/DISTANCE JARAK LANGSUNG ACCUMULATED DISTANCE		3,907.20	50.0	3,957.20	50.0	4,007.20	50.0	4,057.20	50.0	4,107.20	50.0	4,157.20	50.0	4,207.20	50.0	4,257.20	50.0	4,307.20	31.5	4,338.70	23.5	4,362.20
YANG ADA/EXISTING: ELEVASI TANGGUL KIRI EXISTING LEFT BANK LEVEL	—·—·—	26.97		26.96		26.95		26.94		26.93		26.92		26.92		26.91		26.90		26.89		26.14
ELEVASI TANGGUL KANAN EXISTING RIGHT BANK LEVEL	-------	26.97		26.96		26.95		26.94		26.93		26.92		26.92		26.91		26.90		26.89		26.14
ELEVASI DASAR SALURAN PADA AS EXISTING CANAL BED LEVEL	———	24.79		24.78		24.77		24.76		24.75		24.74		24.74		24.73		24.72		24.71		24.21
ELEVASI TANAH ASLI PADA AS SALURAN GROUND LEVEL IN CENTER LINE	....	24.79		24.78		24.77		24.76		24.75		24.74		24.74		24.73		24.72		24.71		24.21
RENCANA/DESIGN: ELEVASI TANGGUL BANK LEVEL	———	26.97		26.96		26.95		26.94		26.93		26.92		26.92		26.91		26.90		26.89		26.14
ELEVASI MUKA AIR RENCANA DESIGN WATER LEVEL	▽	26.08		26.07		26.06		26.05		26.04		26.03		26.03		26.02		26.01		26.00		25.28
ELEVASI DASAR SALURAN CANAL BED LEVEL	▬	24.79		24.78		24.77		24.76		24.75		24.74		24.74		24.73		24.72		24.71		24.21
DIMENSI SALURAN DAN DATA TAMBAHAN CANAL DIMENSIONS AND ADDITIONAL DATA	Q V k B h w m I A	Q=5.372m3/s V=0.65m/s k=50.0 B=4.45m h=1.29m w=0.89m m= 1.50 i = 5,197																				
TIPE BANGUNAN TYPE OF STRUCTURE																				⊙		
RENCANA PERBAIKAN REHABILITATION PLAN		Rehabilitation Grade (Until Hm 43+38.7) Canal : RG 1 (400m), RG 2 (250m), RG 3 (207m) Inspection Road : RG 2																				RG 3

PATOK HEKTOMETER HECTOMETER STONE			HM 44				HM 45				HM 46				HM 47				HM 48						HM 49
NOMOR PROFIL PROFILE NUMBER			73		74		75		76		77		78		79		80		81		82		83		84
JARAK PROFIL/DISTANCE JARAK LANGSUNG ACCUMULATED DISTANCE		50.0	4,412.20	50.0	4,462.20	50.0	4,512.20	50.0	4,562.20	50.0	4,612.20	50.0	4,662.20	50.0	4,712.20	50.0	4,762.20	50.0	4,812.20	46.0	4,858.20		4,868.20	50.0	4,918.20
YANG ADA/EXISTING: ELEVASI TANGGUL KIRI EXISTING LEFT BANK LEVEL	—·—·—		26.11		26.08		26.06		26.03		26.00		25.97		25.94		25.92		25.89		25.86		25.86		25.83
ELEVASI TANGGUL KANAN EXISTING RIGHT BANK LEVEL	-------		26.11		26.08		26.06		26.03		26.00		25.97		25.94		25.92		25.89		25.86		25.86		25.83
ELEVASI DASAR SALURAN PADA AS EXISTING CANAL BED LEVEL	———		24.18		24.15		24.13		24.10		24.07		24.04		24.01		23.99		23.96		23.93		23.93		23.90
ELEVASI TANAH ASLI PADA AS SALURAN GROUND LEVEL IN CENTER LINE	....		24.18		24.15		24.13		24.10		24.07		24.04		24.01		23.99		23.96		23.93		23.93		23.90
RENCANA/DESIGN: ELEVASI TANGGUL BANK LEVEL	———		26.11		26.08		26.06		26.03		26.00		25.97		25.94		25.92		25.89		25.86		25.86		25.83
ELEVASI MUKA AIR RENCANA DESIGN WATER LEVEL	▽		25.25		25.22		25.20		25.17		25.14		25.11		25.08		25.06		25.03		25.00		25.00		24.97
ELEVASI DASAR SALURAN CANAL BED LEVEL	▬		24.18		24.15		24.13		24.10		24.07		24.04		24.01		23.99		23.96		23.93		23.93		23.90
DIMENSI SALURAN DAN DATA TAMBAHAN CANAL DIMENSIONS AND ADDITIONAL DATA	Q V k B h w m I A	Q=5.282m3/s V = 0.97m/s k=50.0 B=3.50 m h=1.07m w=0.89 m m=1.50 i = 1,791																							
TIPE BANGUNAN TYPE OF STRUCTURE																					Ⅱ				
RENCANA PERBAIKAN REHABILITATION PLAN		Rehabilitation Grade (Until Hm 49+89.2) Canal : RG 1 (350m), RG 2 (150m), RG 3 (150m) Inspection Road : RG 2																			RG 3				

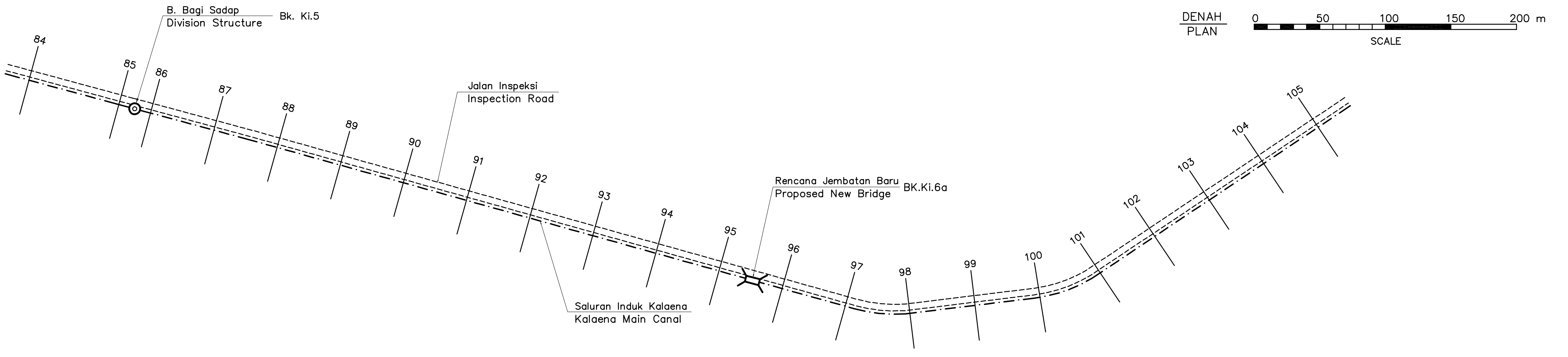
Rehabilitation Grade : RG 1 (no rehabilitation)
RG 2 (minor rehabilitation)
RG 3 (large scale rehabilitation)
RG 4 (replacement or new construction)

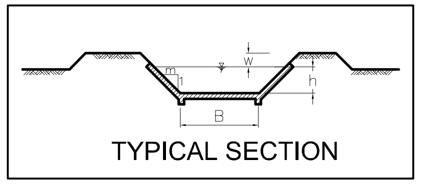
The Study on Comprehensive Recovery Program of Irrigation Agriculture

Japan International Cooperation Agency

Drawing 300-07

Kalaena Kiri Irrigation Scheme
Plan & Profile of Main Canal (5/20)





bidang persamaan/reference level
+18 m

			84	85	86	87	88	89	90	91	92	93	94
	PATOK HEKTOMETER HECTOMETER STONE				HM 50		HM 51		HM 52		HM 53		HM 54
	NOMOR PROFIL PROFILE NUMBER		84	85	86	87	88	89	90	91	92	93	94
	JARAK PROFIL/DISTANCE JARAK LANGSUNG			71.0	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
	ACCUMULATED DISTANCE		4,918.20	4,989.20	5,014.20	5,064.20	5,114.20	5,164.20	5,214.20	5,264.20	5,314.20	5,364.20	5,414.20
YANG ADA/EXISTING	ELEVASI TANGGUL KIRI EXISTING LEFT BANK LEVEL	—·—·—	25.83	25.79	24.75	24.74	24.73	24.72	24.71	24.70	24.69	24.68	24.67
	ELEVASI TANGGUL KANAN EXISTING RIGHT BANK LEVEL	- - - - -	25.83	25.79	24.75	24.74	24.73	24.72	24.71	24.70	24.69	24.68	24.67
	ELEVASI DASAR SALURAN PADA AS EXISTING CANAL BED LEVEL	——	23.90	23.86	22.59	22.58	22.57	22.56	22.55	22.54	22.53	22.52	22.51
	ELEVASI TANAH ASLI PADA AS SALURAN GROUND LEVEL IN CENTER LINE	·······	23.90	23.86	22.59	22.58	22.57	22.56	22.55	22.54	22.53	22.52	22.51
RENCANA/DESIGN	ELEVASI TANGGUL BANK LEVEL	━━	25.83	25.79	24.75	24.74	24.73	24.72	24.71	24.70	24.69	24.68	24.67
	ELEVASI MUKA AIR RENCANA DESIGN WATER LEVEL	▽	24.97	24.93	23.87	23.86	23.85	23.84	23.83	23.82	23.81	23.80	23.79
	ELEVASI DASAR SALURAN CANAL BED LEVEL	━━	23.90	23.86	22.59	22.58	22.57	22.56	22.55	22.54	22.53	22.52	22.51
	TIPE BANGUNAN TYPE OF STRUCTURE			◎									
	RENCANA PERBAIKAN REHABILITATION PLAN			RG 3									

			95		96	97	98	99	100	101	102	103	104
	PATOK HEKTOMETER HECTOMETER STONE			HM 55			HM 56		HM 57		HM 58		HM 59
	NOMOR PROFIL PROFILE NUMBER		95		96	97	98	99	100	101	102	103	104
	JARAK PROFIL/DISTANCE JARAK LANGSUNG		50.0	35.8		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
	ACCUMULATED DISTANCE		5,464.20	5,500.00	5,514.20	5,564.20	5,614.20	5,664.20	5,714.20	5,764.20	5,814.20	5,864.20	5,914.20
YANG ADA/EXISTING	ELEVASI TANGGUL KIRI EXISTING LEFT BANK LEVEL	—·—·—	24.66		24.65	24.64	24.63	24.62	24.61	24.60	24.59	24.58	24.57
	ELEVASI TANGGUL KANAN EXISTING RIGHT BANK LEVEL	- - - - -	24.66		24.65	24.64	24.63	24.62	24.61	24.60	24.59	24.58	24.57
	ELEVASI DASAR SALURAN PADA AS EXISTING CANAL BED LEVEL	——	22.50		22.49	22.48	22.47	22.46	22.45	22.44	22.43	22.42	22.41
	ELEVASI TANAH ASLI PADA AS SALURAN GROUND LEVEL IN CENTER LINE	·······	22.50		22.49	22.48	22.47	22.46	22.45	22.44	22.43	22.42	22.41
RENCANA/DESIGN	ELEVASI TANGGUL BANK LEVEL	━━	24.66		24.65	24.64	24.63	24.62	24.61	24.60	24.59	24.58	24.57
	ELEVASI MUKA AIR RENCANA DESIGN WATER LEVEL	▽	23.78		23.77	23.76	23.75	23.74	23.73	23.72	23.71	23.70	23.69
	ELEVASI DASAR SALURAN CANAL BED LEVEL	━━	22.50		22.49	22.48	22.47	22.46	22.45	22.44	22.43	22.42	22.41
	TIPE BANGUNAN TYPE OF STRUCTURE												
	RENCANA PERBAIKAN REHABILITATION PLAN			RG 4									

DIMENSI SALURAN DAN DATA TAMBAHAN / CANAL DIMENSIONS AND ADDITIONAL DATA (Q V k / B h w / m I A):
Q=5.036m3/s V=0.66m/s k=50.0 B=4.10 m h=1.28m w=0.88m m= 1.50 i = 4,926

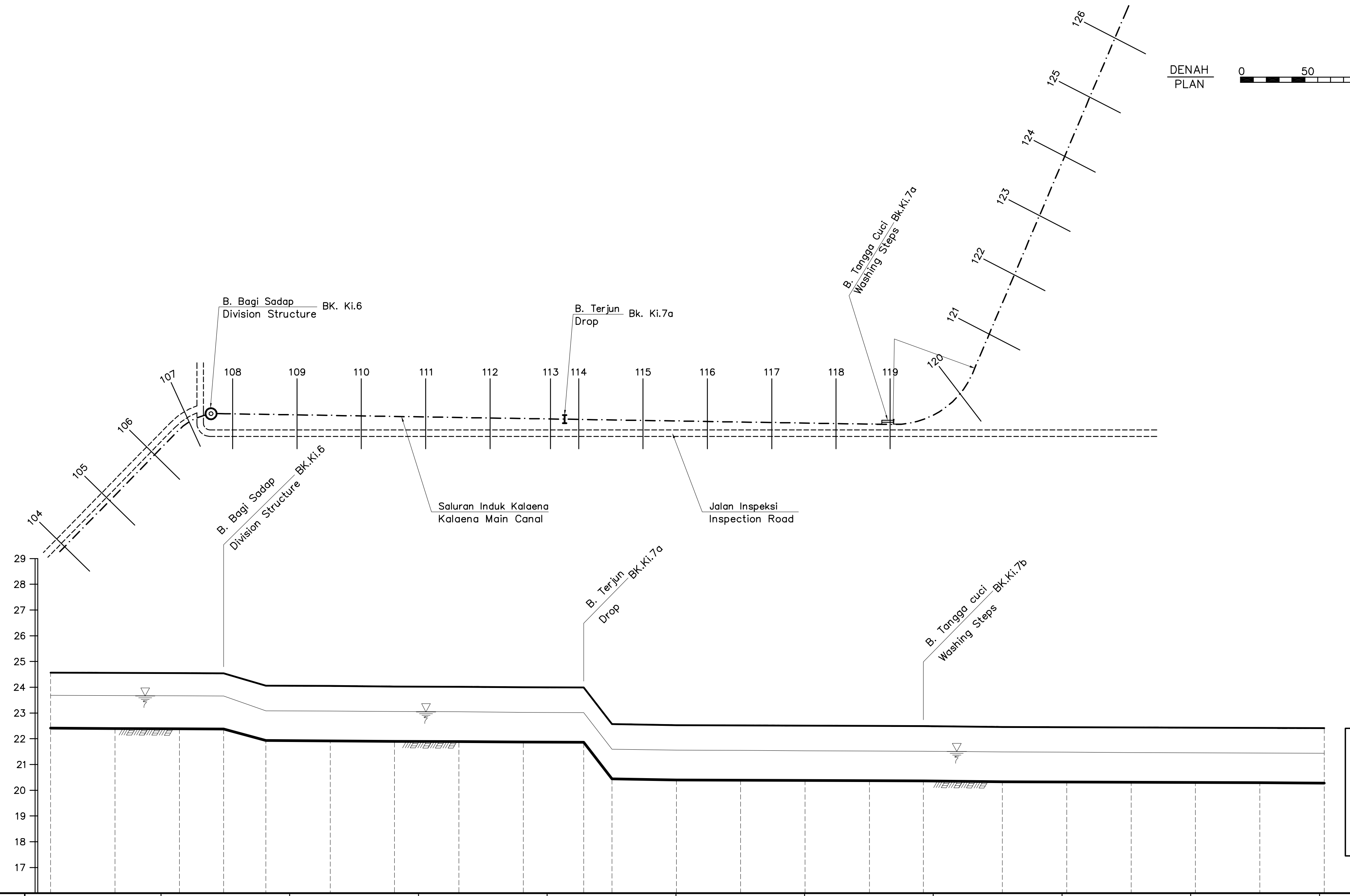
RENCANA PERBAIKAN / REHABILITATION PLAN:
Rehabilitation Grade (Until Hm 60+48.7) Canal : RG 1 (500m), RG 2 (250m), RG 3 (310m) Inspection Road : RG 2

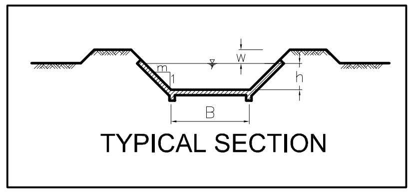
Rehabilitation Grade : RG 1 (no rehabilitation)
RG 2 (minor rehabilitation)
RG 3 (large scale rehabilitation)
RG 4 (replacement or new construction)

The Study on Comprehensive Recovery Program
of Irrigation Agriculture

Japan International Cooperation Agency

Drawing 300-08
Kalaena Kiri Irrigation Scheme
Plan & Profile of Main Canal (6/20)





TYPICAL SECTION

SCALE V
0 2.5 5.0 7.5 10.0m

SCALE H
0 50 100 150 200m

bidang persamaan/reference level
+16 m

PATOK HEKTOMETER / HECTOMETER STONE: HM 60, HM 61, HM 62, HM 63, HM 64, HM 65, HM 66, HM 67, HM 68, HM 69

NOMOR PROFIL PROFILE NUMBER	JARAK LANGSUNG ACCUMULATED DISTANCE	JARAK PROFIL/DISTANCE	YANG ADA/EXISTING: ELEVASI TANGGUL KIRI EXISTING LEFT BANK LEVEL	YANG ADA/EXISTING: ELEVASI TANGGUL KANAN EXISTING RIGHT BANK LEVEL	YANG ADA/EXISTING: ELEVASI DASAR SALURAN PADA AS EXISTING CANAL BED LEVEL	YANG ADA/EXISTING: ELEVASI TANAH ASLI PADA AS SALURAN GROUND LEVEL IN CENTER LINE	RENCANA/DESIGN: ELEVASI TANGGUL BANK LEVEL	RENCANA/DESIGN: ELEVASI MUKA AIR RENCANA DESIGN WATER LEVEL	RENCANA/DESIGN: ELEVASI DASAR SALURAN CANAL BED LEVEL
104	5,914.20	50.0	24.57	24.57	22.41	22.41	24.57	23.69	22.41
105	5,964.20	50.0	24.56	24.56	22.40	22.40	24.56	23.68	22.40
106	6,014.20	34.5	24.55	24.55	22.39	22.39	24.55	23.67	22.39
107	6,048.70	32.8	24.54	24.54	22.38	22.38	24.54	23.66	22.38
108	6,081.45	50.0	24.06	24.06	21.93	21.93	24.06	23.09	21.93
109	6,131.45	50.0	24.05	24.05	21.92	21.92	24.05	23.08	21.92
110	6,181.45	50.0	24.03	24.03	21.90	21.90	24.03	23.06	21.90
111	6,231.45	50.0	24.02	24.02	21.89	21.89	24.02	23.05	21.89
112	6,281.45	47.0	24.00	24.00	21.87	21.87	24.00	23.03	21.87
113	6,328.45	21.9	23.99	23.99	21.86	21.86	23.99	23.02	21.86
114	6,350.35	50.0	22.57	22.57	20.44	20.44	22.57	21.60	20.44
115	6,400.35	50.0	22.53	22.53	20.40	20.40	22.53	21.56	20.40
116	6,450.35	50.0	22.52	22.52	20.39	20.39	22.52	21.55	20.39
117	6,500.35	50.0	22.51	22.51	20.38	20.38	22.51	21.54	20.38
118	6,550.35	41.8	22.50	22.50	20.37	20.37	22.50	21.53	20.37
119	6,592.20	61.5	22.49	22.49	20.36	20.36	22.49	21.52	20.36
120	6,653.70	50.0	22.46	22.46	20.33	20.33	22.46	21.49	20.33
121	6,703.70	50.0	22.45	22.45	20.32	20.32	22.45	21.48	20.32
122	6,753.70	50.0	22.44	22.44	20.31	20.31	22.44	21.47	20.31
123	6,803.70	50.0	22.43	22.43	20.30	20.30	22.43	21.46	20.30
124	6,853.70	50.0	22.42	22.42	20.29	20.29	22.42	21.45	20.29
125	6,903.70		22.41	22.41	20.28	20.28	22.41	21.44	20.28

DIMENSI SALURAN DAN DATA TAMBAHAN / CANAL DIMENSIONS AND ADDITIONAL DATA (Q V k / B h w / m I A):
Q=5.036m3/s, V = 0.66m/s ,k=50.0,B=4.10 m
h=1.28m ,w= 0.88m ,m=1.50 ,i= 4.926
Q=4.803m3/s V=0.72 m/s k=50.0 B=4.00m h=1.16m w=0.97 m m= 1.50 i=3,609

TIPE BANGUNAN / TYPE OF STRUCTURE: ◎ (107) I (113–114) ╤ (119)

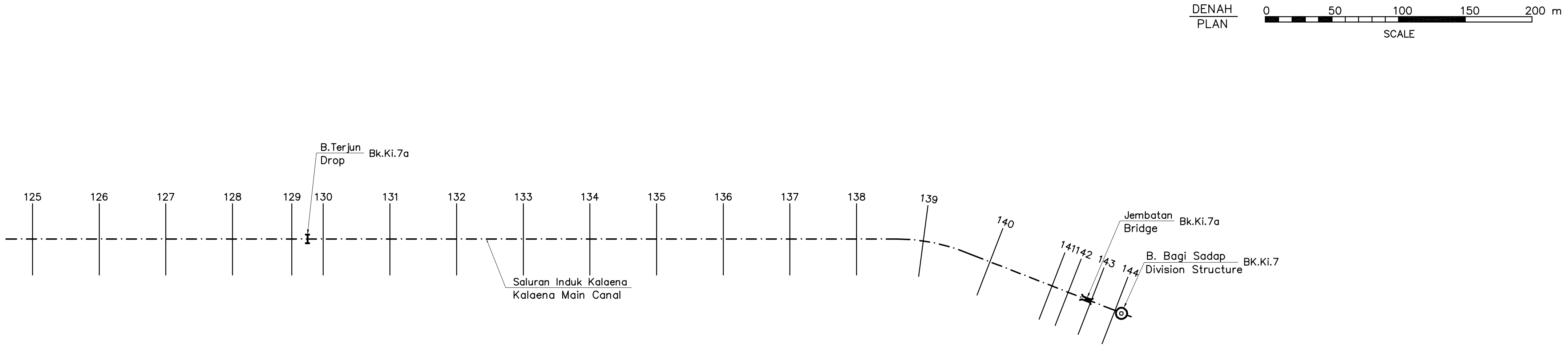
RENCANA PERBAIKAN / REHABILITATION PLAN:
Rehabilitation Grade (Until Hm 77+14.9) Canal : RG 1 (800m), RG 2 (400m), RG 3 (466m) Inspection Road : RG 2
RG 2
RG 3

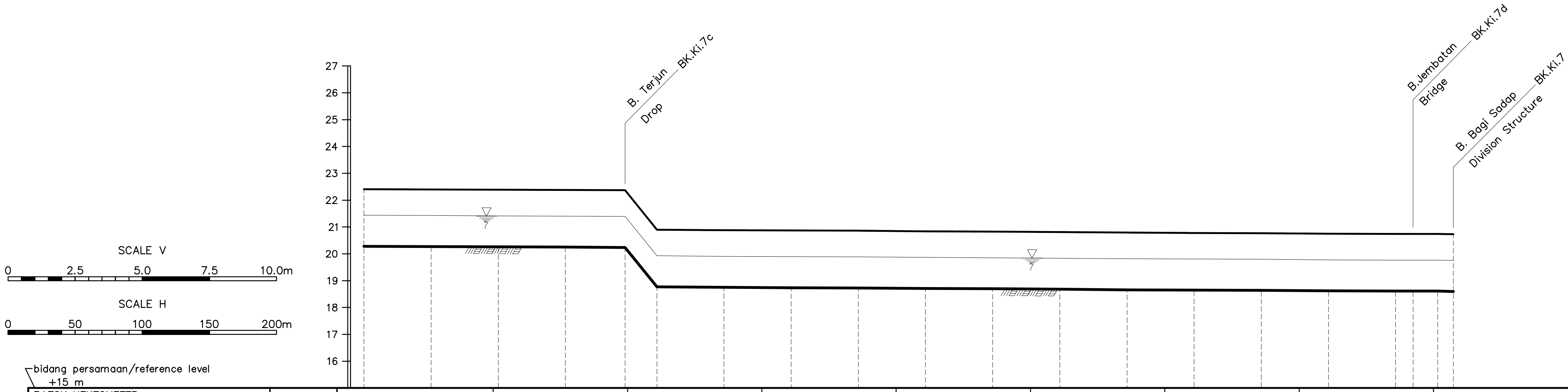
Rehabilitation Grade : RG 1 (no rehabilitation)
RG 2 (minor rehabilitation)
RG 3 (large scale rehabilitation)
RG 4 (replacement or new construction)

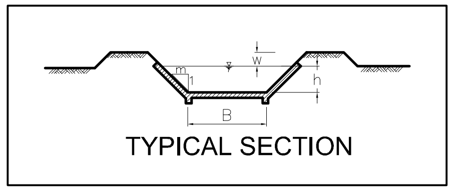
The Study on Comprehensive Recovery Program of Irrigation Agriculture

Japan International Cooperation Agency

Drawing 300-09
Kalaena Kiri Irrigation Scheme
Plan & Profile of Main Canal (7/20)







TYPICAL SECTION

bidang persamaan/reference level
+15 m

			125		126		127		128		129		130		131		132		133		134		135		136		137		138		139		140		141		142		143		144
	PATOK HEKTOMETER HECTOMETER STONE					HM 70						HM 71				HM 72				HM 73				HM 74				HM 75				HM 76						HM 77			
	NOMOR PROFIL PROFILE NUMBER		125		126		127		128		129		130		131		132		133		134		135		136		137		138		139		140		141		142		143		144
	JARAK PROFIL/DISTANCE JARAK LANGSUNG ACCUMULATED DISTANCE		6,903.70	50.0	6,953.70	50.0	7,003.70	50.0	7,053.70	44.5	7,098.20	23.6	7,121.80	50.0	7,171.80	50.0	7,221.80	50.0	7,271.80	50.0	7,321.80	50.0	7,371.80	50.0	7,421.80	50.0	7,471.80	50.0	7,521.80	50.0	7,571.80	50.0	7,621.80	50.0	7,671.80		7,684.80		7,703.20		7,714.90
YANG ADA/EXISTING	ELEVASI TANGGUL KIRI EXISTING LEFT BANK LEVEL	—·—·—	22.41		22.40		22.39		22.38		22.37		20.90		20.88		20.87		20.86		20.84		20.83		20.81		20.79		20.78		20.77		20.75		20.74		20.74		20.74		20.73
	ELEVASI TANGGUL KANAN EXISTING RIGHT BANK LEVEL	-------	22.41		22.40		22.39		22.38		22.37		20.90		20.88		20.87		20.86		20.84		20.83		20.81		20.79		20.78		20.77		20.75		20.74		20.74		20.74		20.73
	ELEVASI DASAR SALURAN PADA AS EXISTING CANAL BED LEVEL	———	20.28		20.27		20.26		20.25		20.24		18.77		18.75		18.74		18.73		18.71		18.70		18.68		18.66		18.65		18.64		18.62		18.61		18.61		18.61		18.60
	ELEVASI TANAH ASLI PADA AS SALURAN GROUND LEVEL IN CENTER LINE	········	20.28		20.27		20.26		20.25		20.24		18.77		18.75		18.74		18.73		18.71		18.70		18.68		18.66		18.65		18.64		18.62		18.61		18.61		18.61		18.60
RENCANA/DESIGN	ELEVASI TANGGUL BANK LEVEL	━━━	22.41		22.40		22.39		22.38		22.37		20.90		20.88		20.87		20.86		20.84		20.83		20.81		20.79		20.78		20.77		20.75		20.74		20.74		20.74		20.73
	ELEVASI MUKA AIR RENCANA DESIGN WATER LEVEL	▽	21.44		21.43		21.42		21.41		21.40		19.93		19.91		19.90		19.89		19.87		19.86		19.84		19.82		19.81		19.80		19.78		19.77		19.77		19.77		19.76
	ELEVASI DASAR SALURAN CANAL BED LEVEL	━━━	20.28		20.27		20.26		20.25		20.24		18.77		18.75		18.74		18.73		18.71		18.70		18.68		18.66		18.65		18.64		18.62		18.61		18.61		18.61		18.60
	DIMENSI SALURAN DAN DATA TAMBAHAN CANAL DIMENSIONS AND ADDITIONAL DATA	Q V k B h w m I A	Q=4.803m3/s V = 0.72 m/s k = 50.0 B = 4.00 m h = 1.16 m w = 0.97 m m = 1.50 i = 3.609																																						
	TIPE BANGUNAN TYPE OF STRUCTURE											I																									⊐⊏				◎
	RENCANA PERBAIKAN REHABILITATION PLAN		Rehabilitation Grade (Until Hm 77+14.9)									RG 3	Canal : RG 1 (800m), RG 2 (400m), RG 3 (466m)														Inspection Road : RG 2										RG 2				RG 3

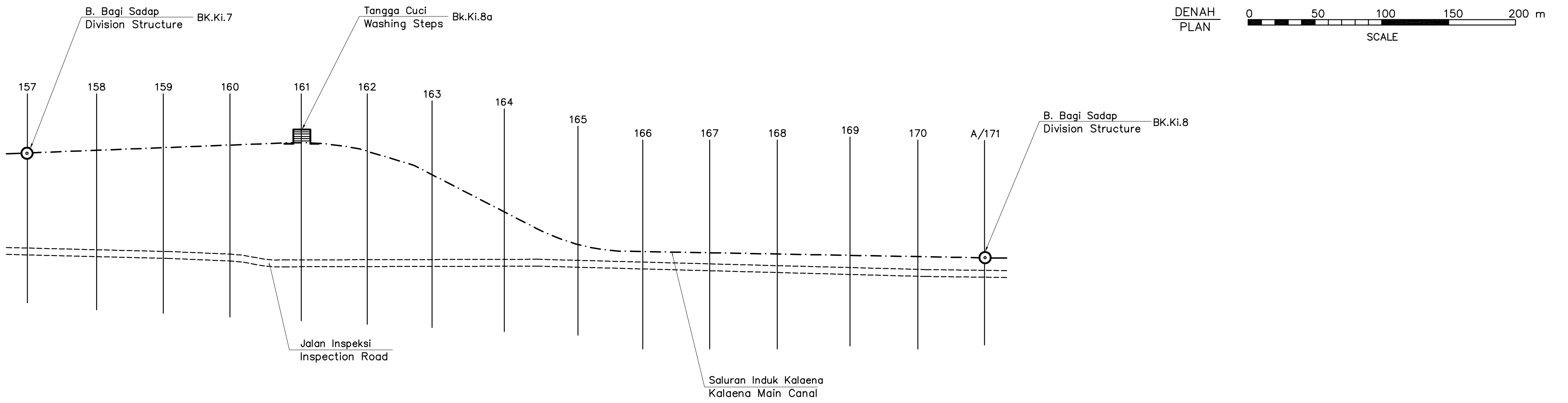
Rehabilitation Grade : RG 1 (no rehabilitation)
RG 2 (minor rehabilitation)
RG 3 (large scale rehabilitation)
RG 4 (replacement or new construction)

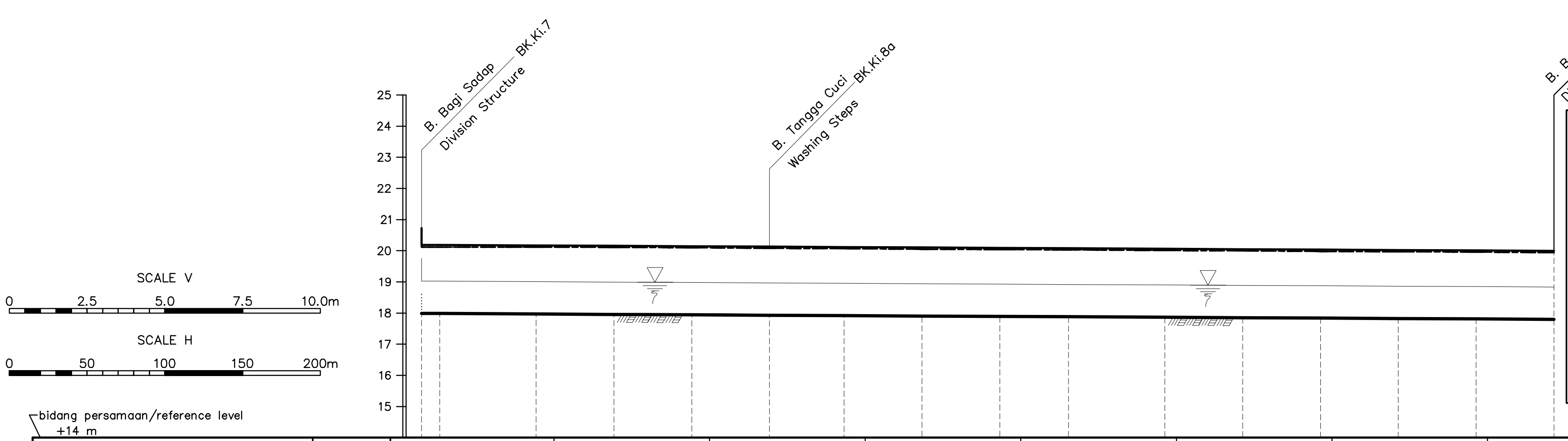
The Study on Comprehensive Recovery Program of Irrigation Agriculture

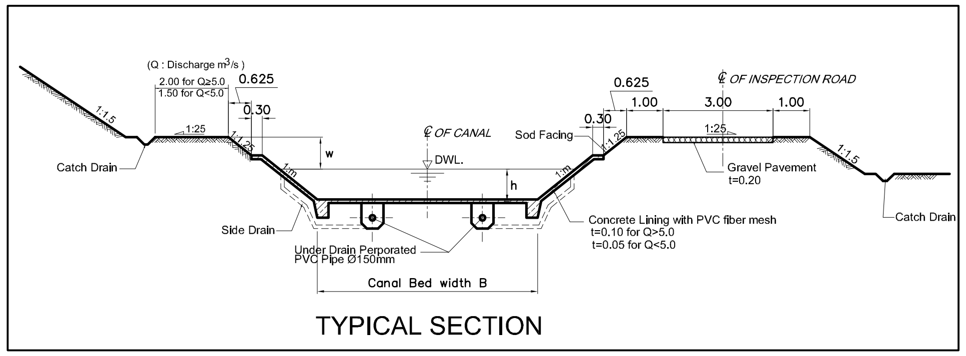
Japan International Cooperation Agency

Drawing 300-10

Kalaena Kiri Irrigation Scheme
Plan & Profile of Main Canal (8/20)







TYPICAL SECTION

bidang persamaan/reference level
+14 m

	PATOK HEKTOMETER HECTOMETER STONE				HM 78		HM 79		HM 80		HM 81		HM 82		HM 83		HM 84
	NOMOR PROFIL PROFILE NUMBER		144	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171
	JARAK PROFIL/DISTANCE				61.9	50.0	50.0	50.0	48.0	50.0	50.0	44.1	62.0	50.0	50.0	50.0	50.0	50.0
	JARAK LANGSUNG ACCUMULATED DISTANCE		7,714.90	7,726.60	7,788.50	7,838.50	7,888.50	7,938.50	7,986.50	8,036.50	8,086.50	8,130.60	8,192.60	8,242.60	8,292.60	8,342.60	8,392.60	8,442.60
YANG ADA/EXISTING	ELEVASI TANGGUL KIRI EXISTING LEFT BANK LEVEL	-·-·-	20.73	20.12 20.12	20.12	20.11	20.10	20.08	20.07	20.05	20.04	20.03	20.01	20.00	19.98	19.97	19.96	19.94
YANG ADA/EXISTING	ELEVASI TANGGUL KANAN EXISTING RIGHT BANK LEVEL	------	20.73	20.12 20.12	20.12	20.11	20.10	20.08	20.07	20.05	20.04	20.03	20.01	20.00	19.98	19.97	19.96	19.94
YANG ADA/EXISTING	ELEVASI DASAR SALURAN PADA AS EXISTING CANAL BED LEVEL	——	18.60	17.99 17.99	17.99	17.98	17.97	17.95	17.94	17.92	17.91	17.90	17.88	17.87	17.85	17.84	17.83	17.81
YANG ADA/EXISTING	ELEVASI TANAH ASLI PADA AS SALURAN GROUND LEVEL IN CENTER LINE	....	18.60	17.99 17.99	17.99	17.98	17.97	17.95	17.94	17.92	17.91	17.90	17.88	17.87	17.85	17.84	17.83	17.81
RENCANA/DESIGN	ELEVASI TANGGUL BANK LEVEL	——	20.73	20.19 20.19	20.17	20.16	20.14	20.13	20.12	20.11	20.09	20.08	20.06	20.05	20.04	20.02	20.01	20.00
RENCANA/DESIGN	ELEVASI MUKA AIR RENCANA DESIGN WATER LEVEL	▽	19.76	19.03 19.02	19.01	18.99	18.98	18.97	18.96	18.94	18.93	18.92	18.90	18.89	18.87	18.86	18.85	18.84
RENCANA/DESIGN	ELEVASI DASAR SALURAN CANAL BED LEVEL	▨	18.60	17.99 17.99	17.97	17.96	17.94	17.93	17.92	17.91	17.89	17.88	17.86	17.85	17.84	17.82	17.81	17.80
RENCANA/DESIGN	DIMENSI SALURAN DAN DATA TAMBAHAN CANAL DIMENSIONS AND ADDITIONAL DATA	Q V k B h w m I A	Q=4.597 m3/s V = 0.84 m/s k = 62.5 B = 4.00 m h = 1.04 m w = 0.66 m m = 1.25 i = 3,800															
RENCANA/DESIGN	TIPE BANGUNAN TYPE OF STRUCTURE		○					▭										○
RENCANA/DESIGN	RENCANA PERBAIKAN REHABILITATION PLAN		RG 3	Rehabilitation Grade (Until Hm 189+86.9) Canal : RG 4 Inspection Road : RG 3														RG 3

Rehabilitation Grade : RG 1 (no rehabilitation)
RG 2 (minor rehabilitation)
RG 3 (large scale rehabilitation)
RG 4 (replacement or new construction)

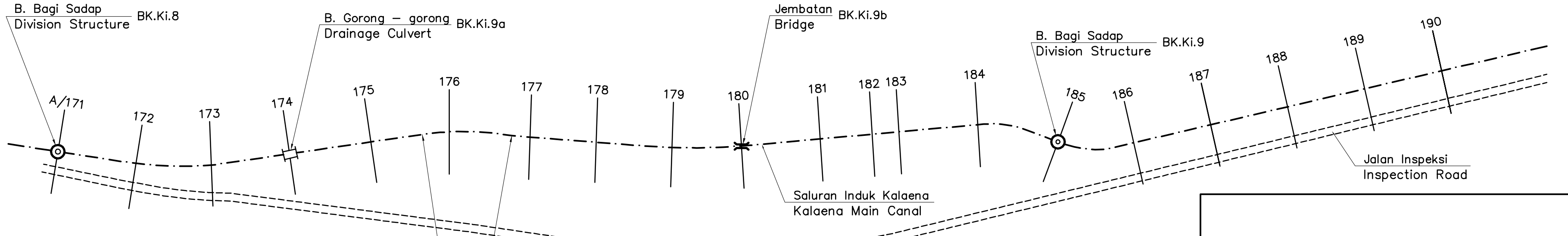
The Study on Comprehensive Recovery Program of Irrigation Agriculture

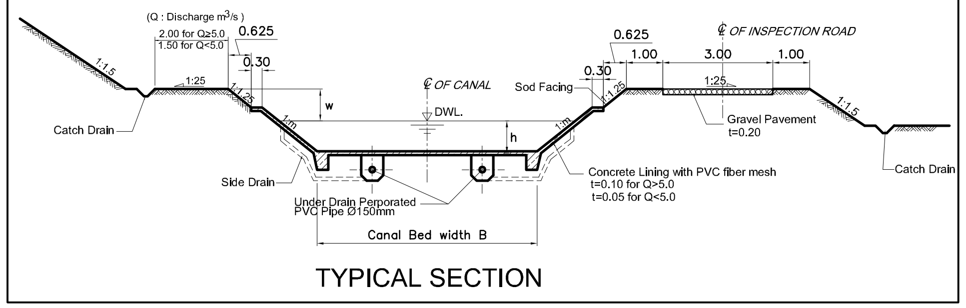
Japan International Cooperation Agency

Drawing 300-11
Kalaena Kiri Irrigation Scheme
Plan & Profile of Main Canal (9/20)

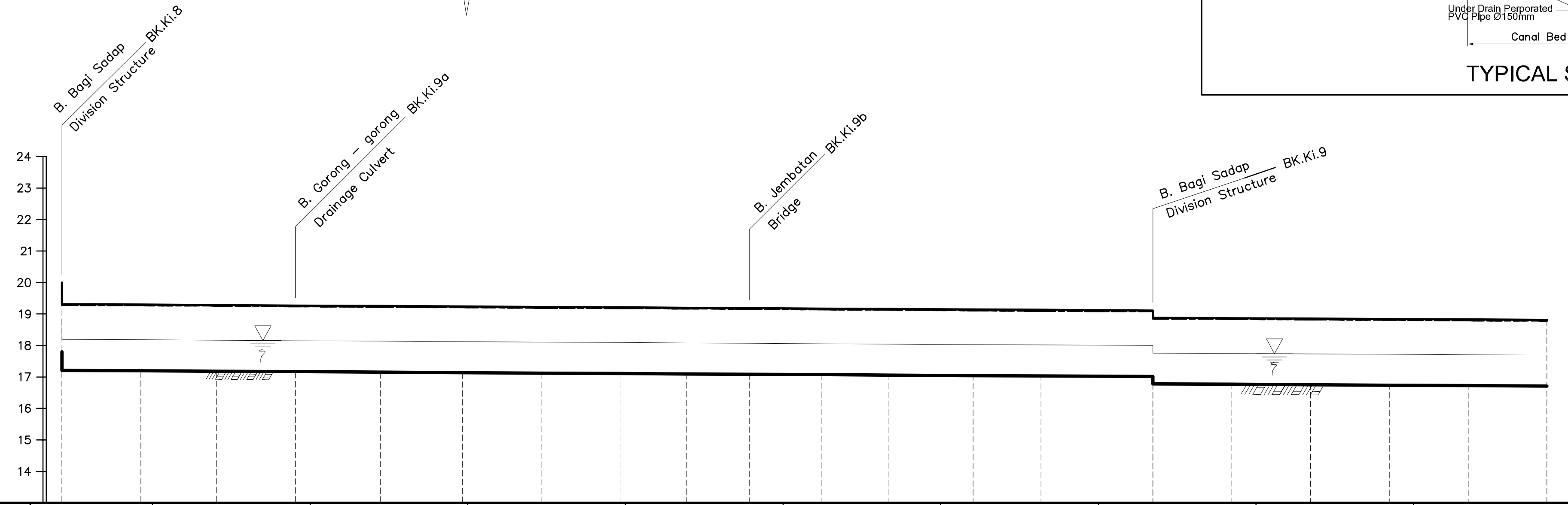
DENAH
PLAN

SCALE: 0 50 100 150 200 m





TYPICAL SECTION



SCALE V
0 2.5 5.0 7.5 10.0m

SCALE H
0 50 100 150 200m

bidang persamaan/reference level
+13 m

PATOK HEKTOMETER / HECTOMETER STONE: HM 85, HM 86, HM 87, HM 88, HM 89, HM 90, HM 91, HM 92, HM 93

NOMOR PROFIL PROFILE NUMBER	JARAK PROFIL/DISTANCE JARAK LANGSUNG	ACCUMULATED DISTANCE	ELEVASI TANGGUL KIRI EXISTING LEFT BANK LEVEL	ELEVASI TANGGUL KANAN EXISTING RIGHT BANK LEVEL	ELEVASI DASAR SALURAN PADA AS EXISTING CANAL BED LEVEL	ELEVASI TANAH ASLI PADA AS SALURAN GROUND LEVEL IN CENTER LINE	ELEVASI TANGGUL BANK LEVEL	ELEVASI MUKA AIR RENCANA DESIGN WATER LEVEL	ELEVASI DASAR SALURAN CANAL BED LEVEL
171		8,442.60	19.94 19.28	19.94 19.28	17.81 17.21	17.81 17.21	20.00 19.31	18.84 18.19	17.80 17.21
172	50.0	8,492.60	19.27	19.27	17.20	17.20	19.30	18.18	17.20
173	48.0	8,540.60	19.26	19.26	17.19	17.19	19.28	18.17	17.18
174	50.0	8,590.60	19.24	19.24	17.17	17.17	19.27	18.15	17.17
175	54.0	8,644.60	19.22	19.22	17.15	17.15	19.25	18.14	17.15
	48.0	8,692.60					19.24	18.12	17.14
176		8,696.60	19.21	19.21	17.14	17.14			
177	50.0	8,746.60	19.19	19.19	17.12	17.12	19.22	18.11	17.12
178	50.0	8,796.60	19.18	19.18	17.11	17.11	19.21	18.09	17.11
179	42.0	8,838.60	19.17	19.17	17.10	17.10	19.20	18.08	17.10
180	40.0	8,878.60	19.16	19.16	17.09	17.09	19.19	18.07	17.09
181	46.0	8,924.60	19.14	19.14	17.07	17.07	19.17	18.06	17.07
182	42.0	8,966.60	19.13	19.13	17.06	17.06	19.16	18.04	17.06
183	54.0	9,020.60	19.11	19.11	17.04	17.04	19.14	18.03	17.04
	43.0	9,063.60	19.09	19.09	17.02	17.02	19.13	18.02	17.03
184	17.0	9,080.60							
185	54.0	9,134.60	19.08 18.85	19.08 18.85	17.01 16.78	17.01 16.78	19.11 18.88	18.00 17.76	17.01 16.78
186	50.0	9,184.60	18.84	18.84	16.77	16.77	18.87	17.75	16.77
187	50.0	9,234.60	18.82	18.82	16.75	16.75	18.85	17.73	16.75
188	50.0	9,284.60	18.81	18.81	16.74	16.74	18.84	17.72	16.74
189	50.0	9,334.60	18.79	18.79	16.72	16.72	18.83	17.71	16.73
190	50.0	9,384.60	18.78	18.78	16.71	16.71	18.81	17.69	16.71

YANG ADA/EXISTING: ELEVASI TANGGUL KIRI / EXISTING LEFT BANK LEVEL —·—·—; ELEVASI TANGGUL KANAN / EXISTING RIGHT BANK LEVEL - - - - -; ELEVASI DASAR SALURAN PADA AS / EXISTING CANAL BED LEVEL ———; ELEVASI TANAH ASLI PADA AS SALURAN / GROUND LEVEL IN CENTER LINE ·········

RENCANA/DESIGN:

DIMENSI SALURAN DAN DATA TAMBAHAN / CANAL DIMENSIONS AND ADDITIONAL DATA (Q V k / B h w / m l A):
- 171–185: Q=4.366 m3/s V=0.85m/s k=62.5 B=4.00 m h=0.98 m w=0.62m m= 1.25 i=3,500
- 185–190: Q=4.213m3/s V=0.82m/s k=62.5 B=4.00 m h=0.98m w=0.62m m= 1.25 i=3,700

TIPE BANGUNAN / TYPE OF STRUCTURE: 171 division structure; 174 drainage culvert; 180 bridge; 185 division structure

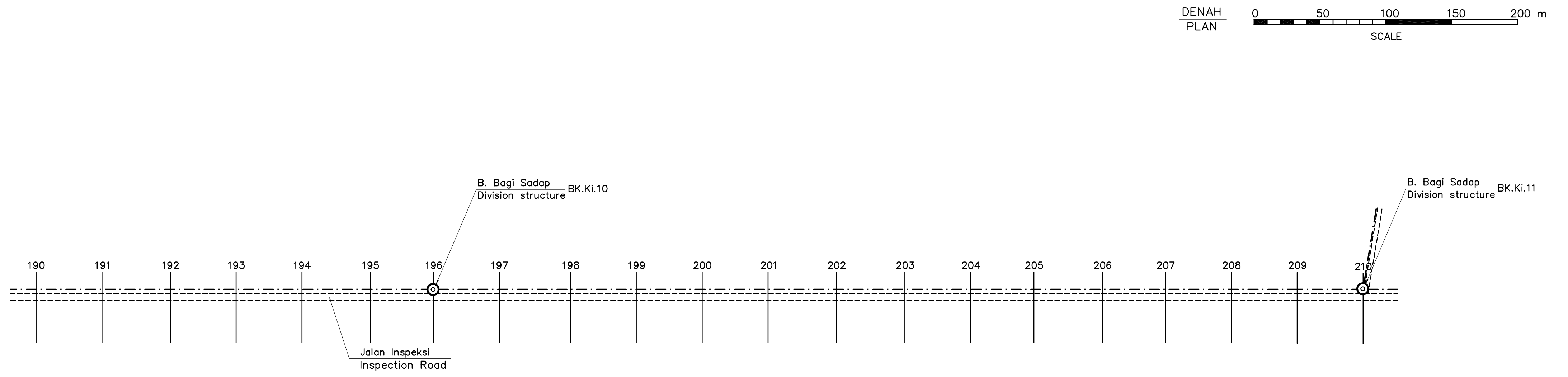
RENCANA PERBAIKAN / REHABILITATION PLAN:
Rehabilitation Grade (Until Hm 189+86.9) Canal : RG 4 Inspection Road : RG 3
RG 3 (171) RG 3 (174) RG 3 (180) RG 3 (185)

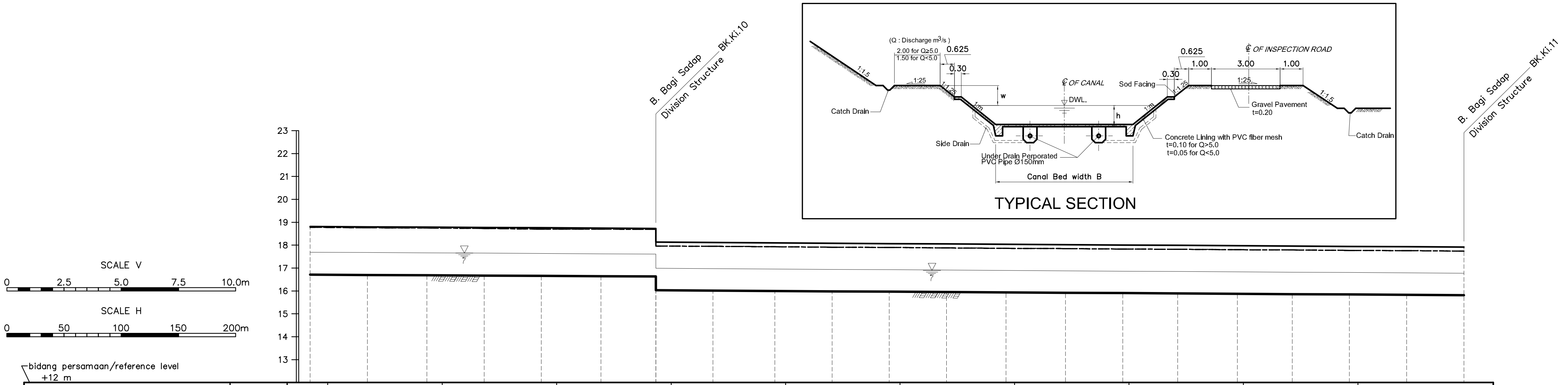
Rehabilitation Grade : RG 1 (no rehabilitation)
RG 2 (minor rehabilitation)
RG 3 (large scale rehabilitation)
RG 4 (replacement or new construction)

The Study on Comprehensive Recovery Program of Irrigation Agriculture

Japan International Cooperation Agency

Drawing 300-12
Kalaena Kiri Irrigation Scheme
Plan & Profile of Main Canal (10/20)





TYPICAL SECTION

bidang persamaan/reference level
+12 m

	PATOK HEKTOMETER HECTOMETER STONE			HM 94				HM 95				HM 96				HM 97				HM 98			
	NOMOR PROFIL PROFILE NUMBER		190		191		192		193		194		195		196		197		198		199		200
	JARAK PROFIL/DISTANCE JARAK LANGSUNG ACCUMULATED DISTANCE		9,384.60	50.0	9,434.60	52.0	9,486.60	50.0	9,536.60	50.0	9,586.60	52.0	9,638.60	48.0	9,686.60	50.0	9,736.60	54.0	9,790.60	50.0	9,840.60	50.0	9,890.60
YANG ADA/EXISTING	ELEVASI TANGGUL KIRI EXISTING LEFT BANK LEVEL	—·—·—	18.78		18.76		18.75		18.73		18.70		18.70		18.69 17.96		17.95		17.93		17.91		17.90
	ELEVASI TANGGUL KANAN EXISTING RIGHT BANK LEVEL	-------	18.78		18.76		18.75		18.73		18.70		18.70		18.69 17.96		17.95		17.93		17.91		17.90
	ELEVASI DASAR SALURAN PADA AS EXISTING CANAL BED LEVEL	——	16.71		16.69		16.68		16.66		16.63		16.63		16.62 16.03		16.02		16.00		15.98		15.97
	ELEVASI TANAH ASLI PADA AS SALURAN GROUND LEVEL IN CENTER LINE	....	16.71		16.69		16.68		16.66		16.63		16.63		16.62 16.03		16.02		16.00		15.98		15.97
RENCANA/DESIGN	ELEVASI TANGGUL BANK LEVEL	——	18.81		18.80		18.78		18.77		18.76		18.74		18.73 18.13		18.11		18.10		18.08		18.07
	ELEVASI MUKA AIR RENCANA DESIGN WATER LEVEL	▽	17.69		17.68		17.66		17.65		17.64		17.62		17.61 16.99		16.97		16.96		16.94		16.93
	ELEVASI DASAR SALURAN CANAL BED LEVEL	▬	16.71		16.70		16.68		16.67		16.66		16.64		16.63 16.03		16.01		16.00		15.98		15.97
	DIMENSI SALURAN DAN DATA TAMBAHAN CANAL DIMENSIONS AND ADDITIONAL DATA	Q V k B h w m l A	Q = 4.213 m3/s V = 0.82 m/s k= 62.5 B = 4.00 m h = 0.98 m w = 0.62 m m = 1.25 i = 3,700																Q=3.903m3/s V = 0.85m/s k = 62.5 B = 3.60m h = 0.96m w = 0.64 m m = 1.25 i = 3,300				
	TIPE BANGUNAN TYPE OF STRUCTURE														⊙								
	RENCANA PERBAIKAN REHABILITATION PLAN		Rehabilitation Grade (Until Hm 189+86.9) Canal : RG 4												RG 3								

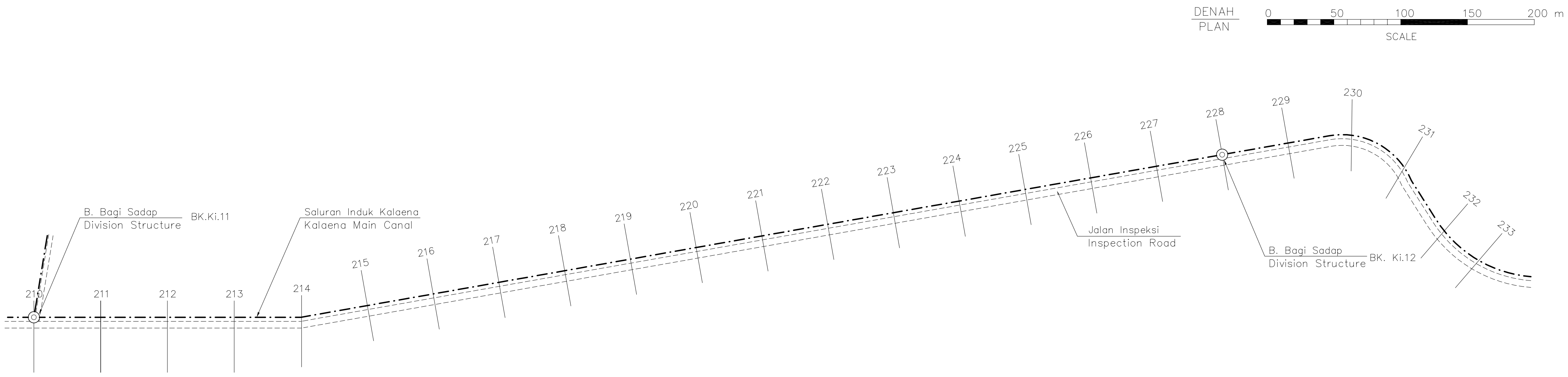
	PATOK HEKTOMETER HECTOMETER STONE			HM 99				HM 100				HM 101				HM 102				HM 103			
	NOMOR PROFIL PROFILE NUMBER		200		201		202		203		204		205		206		207		208		209		210
	JARAK PROFIL/DISTANCE JARAK LANGSUNG ACCUMULATED DISTANCE		9,890.60	50.0	9,940.60	52.0	9,992.60	52.0	10,044.60	50.0	10,094.60	48.0	10,142.60	52.0	10,194.60	48.0	10,242.60	50.0	10,292.60	50.0	10,342.60	50.0	10,392.60
YANG ADA/EXISTING	ELEVASI TANGGUL KIRI EXISTING LEFT BANK LEVEL	—·—·—	17.90		17.88		17.86		17.85		17.83		17.82		17.80		17.79		17.77		17.76		17.74
	ELEVASI TANGGUL KANAN EXISTING RIGHT BANK LEVEL	-------	17.90		17.88		17.86		17.85		17.83		17.82		17.80		17.79		17.77		17.76		17.74
	ELEVASI DASAR SALURAN PADA AS EXISTING CANAL BED LEVEL	——	15.97		15.95		15.93		15.92		15.90		15.89		15.87		15.86		15.84		15.83		15.81
	ELEVASI TANAH ASLI PADA AS SALURAN GROUND LEVEL IN CENTER LINE	....	15.97		15.95		15.93		15.92		15.90		15.89		15.87		15.86		15.84		15.83		15.81
RENCANA/DESIGN	ELEVASI TANGGUL BANK LEVEL	——	18.07		18.05		18.04		18.02		18.01		17.99		17.98		17.96		17.95		17.93		17.92
	ELEVASI MUKA AIR RENCANA DESIGN WATER LEVEL	▽	16.93		16.91		16.90		16.88		16.86		16.85		16.83		16.82		16.80		16.79		16.77
	ELEVASI DASAR SALURAN CANAL BED LEVEL	▬	15.97		15.95		15.94		15.92		15.91		15.89		15.88		15.86		15.85		15.83		15.82
	DIMENSI SALURAN DAN DATA TAMBAHAN CANAL DIMENSIONS AND ADDITIONAL DATA	Q V k B h w m l A																					
	TIPE BANGUNAN TYPE OF STRUCTURE																						⊙
	RENCANA PERBAIKAN REHABILITATION PLAN				Inspection Road : RG 3																		RG 2

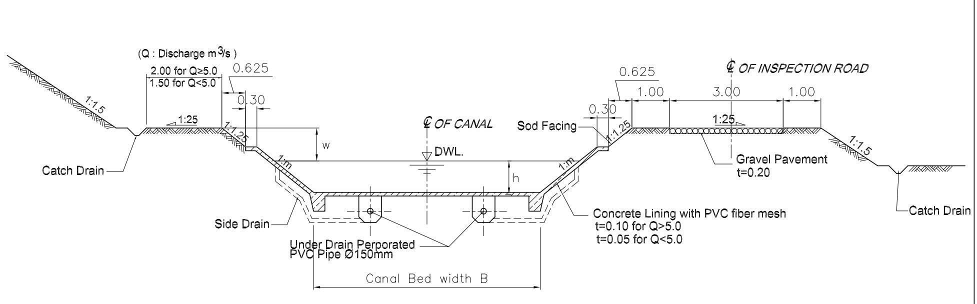
Rehabilitation Grade : RG 1 (no rehabilitation)
RG 2 (minor rehabilitation)
RG 3 (large scale rehabilitation)
RG 4 (replacement or new construction)

The Study on Comprehensive Recovery Program of Irrigation Agriculture

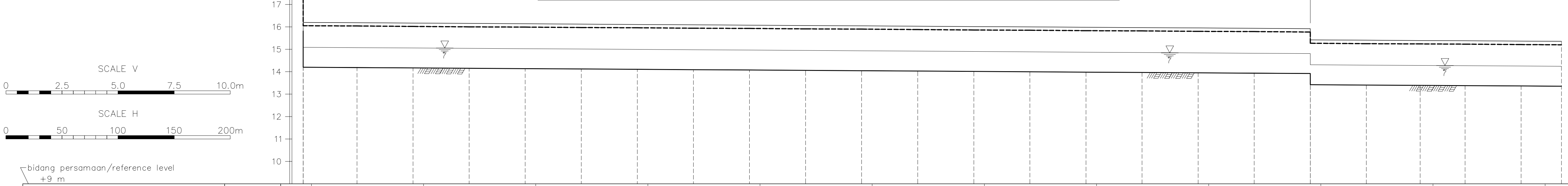
Japan International Cooperation Agency

Drawing 300-13
Kalaena Kiri Irrigation Scheme
Plan & Profile of Main Canal (11/20)





TYPICAL SECTION



bidang persamaan/reference level
+9 m

			210	211	212	213	214	215	216	217	218	219	220	221
	PATOK HEKTOMETER HECTOMETER STONE		HM 104		HM 105		HM 106		HM 107		HM 108		HM 109	
	NOMOR PROFIL PROFILE NUMBER		210	211	212	213	214	215	216	217	218	219	220	221
	JARAK PROFIL/DISTANCE JARAK LANGSUNG		48.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
	ACCUMULATED DISTANCE		10,392.60	10,440.60	10,490.60	10,540.60	10,590.60	10,640.60	10,690.60	10,740.60	10,790.60	10,840.60	10,890.60	10,940.60
YANG ADA/EXISTING	ELEVASI TANGGUL KIRI EXISTING LEFT BANK LEVEL	— · — · —	17.74 16.05	16.04	16.02	16.00	15.99	15.97	15.96	15.94	15.93	15.91	15.90	15.88
	ELEVASI TANGGUL KANAN EXISTING RIGHT BANK LEVEL	- - - - - - -	17.74 16.05	16.04	16.02	16.00	15.99	15.97	15.96	15.94	15.93	15.91	15.90	15.88
	ELEVASI DASAR SALURAN PADA AS EXISTING CANAL BED LEVEL	———	15.81 14.20	14.19	14.17	14.15	14.14	14.12	14.11	14.09	14.08	14.06	14.05	14.03
	ELEVASI TANAH ASLI PADA AS SALURAN GROUND LEVEL IN CENTER LINE	·········	15.81 14.20	14.19	14.17	14.15	14.14	14.12	14.11	14.09	14.08	14.06	14.05	14.03
RENCANA/DESIGN	ELEVASI TANGGUL BANK LEVEL	———	17.92 16.20	16.19	16.17	16.15	16.14	16.12	16.11	16.09	16.08	16.06	16.04	16.03
	ELEVASI MUKA AIR RENCANA DESIGN WATER LEVEL	▽	16.77 15.09	15.07	15.06	15.04	15.03	15.01	15.00	14.98	14.96	14.95	14.93	14.92
	ELEVASI DASAR SALURAN CANAL BED LEVEL	▨	15.82 14.20	14.19	14.17	14.15	14.14	14.12	14.11	14.09	14.08	14.06	14.04	14.03
	DIMENSI SALURAN DAN DATA TAMBAHAN CANAL DIMENSIONS AND ADDITIONAL DATA	Q V k B h w m I A	Q=3.297m3/s V=0.82m/s k = 62.5 B=3.40m h=0.89m w=0.61m m= 1.25 i=3,200											
	TIPE BANGUNAN TYPE OF STRUCTURE		◎											
	RENCANA PERBAIKAN REHABILITATION PLAN		RG 2 Rehabilitation Grade (Until Hm 189+86.9) Canal : RG 4 Inspection Road : RG 3											

			222	223	224	225	226	227	228	229	230	231	232	233
	PATOK HEKTOMETER HECTOMETER STONE		HM 110		HM 111		HM 112		HM 113		HM 114		HM 115	
	NOMOR PROFIL PROFILE NUMBER		222	223	224	225	226	227	228	229	230	231	232	233
	JARAK PROFIL/DISTANCE JARAK LANGSUNG		50.0	50.0	50.0	50.0	50.0	50.0	50.0	48.0	40.0	50.0	36.0	
	ACCUMULATED DISTANCE		10,990.60	11,040.60	11,090.60	11,140.60	11,190.60	11,240.60	11,290.60	11,340.60	11,388.60	11,428.60	11,478.60	11,514.60
YANG ADA/EXISTING	ELEVASI TANGGUL KIRI EXISTING LEFT BANK LEVEL	— · — · —	15.86	15.85	15.83	15.82	15.80	15.79	15.77 15.27	15.25	15.24	15.23	15.21	15.20
	ELEVASI TANGGUL KANAN EXISTING RIGHT BANK LEVEL	- - - - - - -	15.86	15.85	15.83	15.82	15.80	15.79	15.77 15.27	15.25	15.24	15.23	15.21	15.20
	ELEVASI DASAR SALURAN PADA AS EXISTING CANAL BED LEVEL	———	14.01	14.00	13.98	13.97	13.95	13.94	13.92 13.42	13.40	13.39	13.38	13.36	13.35
	ELEVASI TANAH ASLI PADA AS SALURAN GROUND LEVEL IN CENTER LINE	·········	14.01	14.00	13.98	13.97	13.95	13.94	13.92 13.42	13.40	13.39	13.38	13.36	13.35
RENCANA/DESIGN	ELEVASI TANGGUL BANK LEVEL	———	16.01	16.00	15.98	15.97	15.95	15.94	15.92 15.42	15.41	15.39	15.38	15.36	15.35
	ELEVASI MUKA AIR RENCANA DESIGN WATER LEVEL	▽	14.90	14.89	14.87	14.86	14.84	14.82	14.81 14.31	14.30	14.28	14.27	14.25	14.24
	ELEVASI DASAR SALURAN CANAL BED LEVEL	▨	14.01	14.00	13.98	13.97	13.95	13.94	13.92 13.42	13.41	13.39	13.38	13.36	13.35
	DIMENSI SALURAN DAN DATA TAMBAHAN CANAL DIMENSIONS AND ADDITIONAL DATA	Q V k B h w m I A							Q=3.205m3/s V=0.78m/s k=62.5 B=3.40 m h=0.89m w=0.61m m = 1.25 i = 3,400					
	TIPE BANGUNAN TYPE OF STRUCTURE								◎					
	RENCANA PERBAIKAN REHABILITATION PLAN								RG 3					

Rehabilitation Grade : RG 1 (no rehabilitation)
RG 2 (minor rehabilitation)
RG 3 (large scale rehabilitation)
RG 4 (replacement or new construction)

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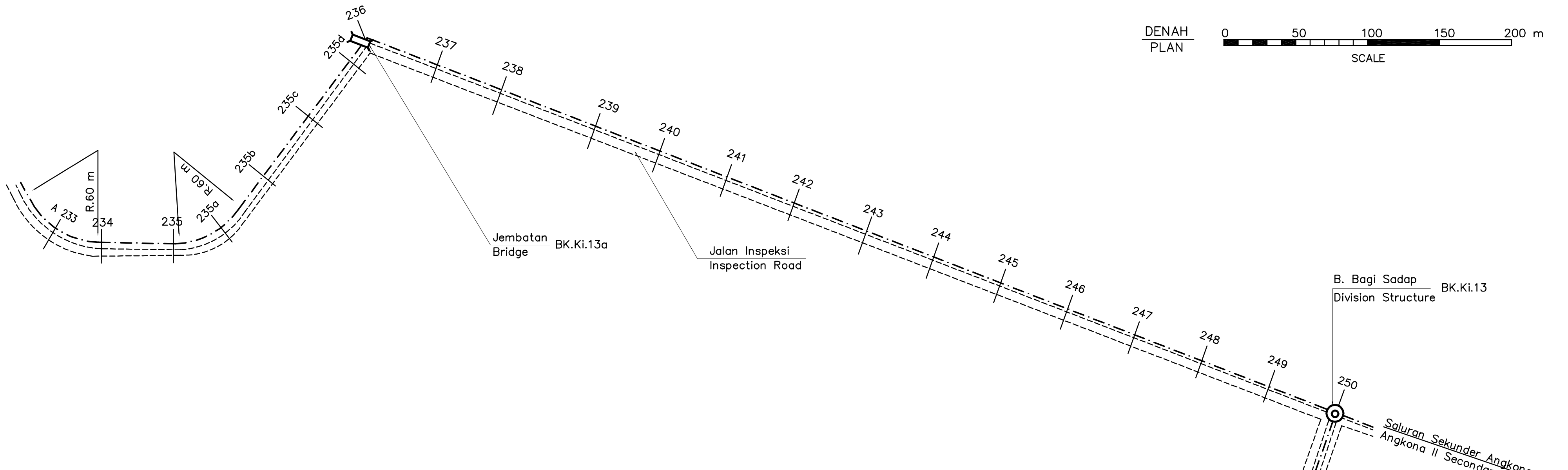
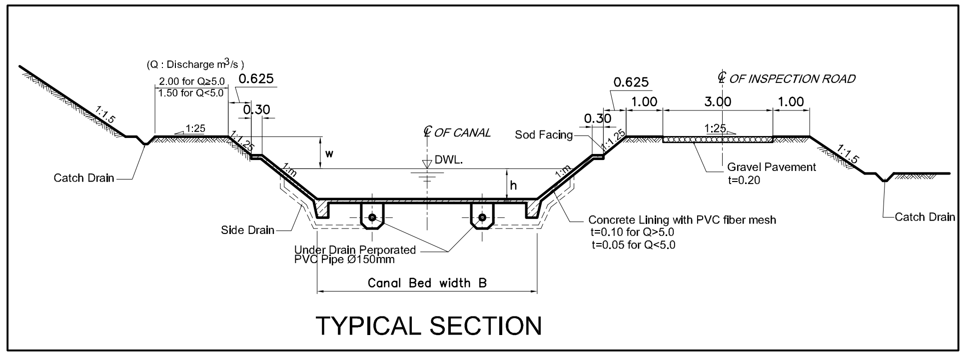
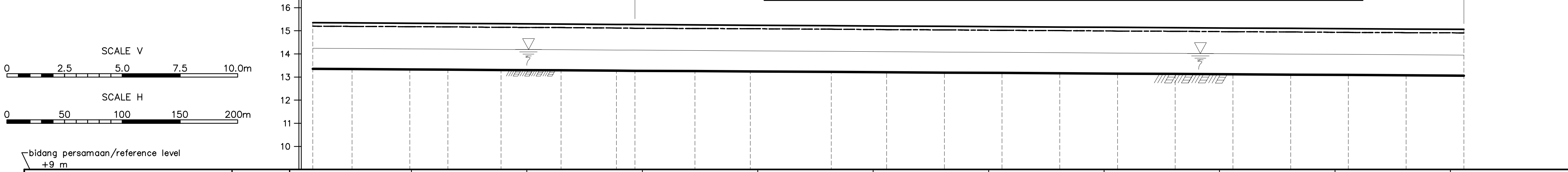
Drawing 300–14
Kalaena Kiri Irrigation Scheme
Plan & Profile of Main Canal (12/20)





TYPICAL SECTION



	PATOK HEKTOMETER HECTOMETER STONE						HM 116					HM 117							HM 118		
	NOMOR PROFIL PROFILE NUMBER		233		234		235		235 a		235 b		235 c		235 d		236		237		238
	JARAK PROFIL/DISTANCE JARAK LANGSUNG ACCUMULATED DISTANCE		11,514.60	34.0	11,548.60	50.0	11,598.60	33.0	11,631.60	46.0	11,677.60	52.0	11,729.60	48.0	11,777.60		11,793.60	52.0	11,845.60	48.0	11,893.60
YANG ADA/EXISTING	ELEVASI TANGGUL KIRI EXISTING LEFT BANK LEVEL	—·—·—	15.20		15.19		15.18		15.17		15.15		15.14		15.12		15.11		15.10		15.09
	ELEVASI TANGGUL KANAN EXISTING RIGHT BANK LEVEL	- - - - -	15.20		15.19		15.18		15.17		15.15		15.14		15.12		15.11		15.10		15.09
	ELEVASI DASAR SALURAN PADA AS EXISTING CANAL BED LEVEL	———	13.35		13.34		13.33		13.32		13.30		13.29		13.27		13.26		13.25		13.24
	ELEVASI TANAH ASLI PADA AS SALURAN GROUND LEVEL IN CENTER LINE	········	13.35		13.34		13.33		13.32		13.30		13.29		13.27		13.26		13.25		13.24
RENCANA/DESIGN	ELEVASI TANGGUL BANK LEVEL	———	15.35		15.34		15.33		15.32		15.31		15.29		15.28		15.27		15.26		15.24
	ELEVASI MUKA AIR RENCANA DESIGN WATER LEVEL	▽	14.24		14.23		14.22		14.21		14.20		14.18		14.17		14.16		14.15		14.13
	ELEVASI DASAR SALURAN CANAL BED LEVEL	▬	13.35		13.34		13.33		13.32		13.31		13.29		13.28		13.27		13.26		13.24
	DIMENSI SALURAN DAN DATA TAMBAHAN CANAL DIMENSIONS AND ADDITIONAL DATA	Q V k B h w m I A	Q = 3.205 m3/s V = 0.78 m/s k = 62.5 B = 3.40 m h = 0.89 m w = 0.61 m m = 1.25 i = 3,400																		
	TIPE BANGUNAN TYPE OF STRUCTURE																				
	RENCANA PERBAIKAN REHABILITATION PLAN																RG 2			Rehabilitation Grade (Until Hm 189+86.9)	

	PATOK HEKTOMETER HECTOMETER STONE		HM 119		HM 120				HM 121				HM 122				HM 123	
	NOMOR PROFIL PROFILE NUMBER			239		240		241		242		243		244		245		246
	JARAK PROFIL/DISTANCE JARAK LANGSUNG ACCUMULATED DISTANCE		70.0	11,963.60	48.0	12,011.60	50.0	12,061.60	50.0	12,111.60	50.0	12,161.60	50.0	12,211.60	50.0	12,261.60	50.0	12,311.60
YANG ADA/EXISTING	ELEVASI TANGGUL KIRI EXISTING LEFT BANK LEVEL	—·—·—		15.07		15.05		15.04		15.02		15.01		14.99		14.98		14.96
	ELEVASI TANGGUL KANAN EXISTING RIGHT BANK LEVEL	- - - - -		15.07		15.05		15.04		15.02		15.01		14.99		14.98		14.96
	ELEVASI DASAR SALURAN PADA AS EXISTING CANAL BED LEVEL	———		13.22		13.20		13.19		13.17		13.16		13.14		13.13		13.11
	ELEVASI TANAH ASLI PADA AS SALURAN GROUND LEVEL IN CENTER LINE	········		13.22		13.20		13.19		13.17		13.16		13.14		13.13		13.11
RENCANA/DESIGN	ELEVASI TANGGUL BANK LEVEL	———		15.22		15.21		15.19		15.18		15.16		15.15		15.13		15.12
	ELEVASI MUKA AIR RENCANA DESIGN WATER LEVEL	▽		14.11		14.10		14.08		14.07		14.05		14.04		14.02		14.01
	ELEVASI DASAR SALURAN CANAL BED LEVEL	▬		13.22		13.21		13.19		13.18		13.16		13.15		13.13		13.12
	DIMENSI SALURAN DAN DATA TAMBAHAN CANAL DIMENSIONS AND ADDITIONAL DATA	Q V k B h w m I A																
	TIPE BANGUNAN TYPE OF STRUCTURE																	
	RENCANA PERBAIKAN REHABILITATION PLAN								Canal : RG 4									

	PATOK HEKTOMETER HECTOMETER STONE					HM 124				HM 125		
	NOMOR PROFIL PROFILE NUMBER			247		248		249		250		
	JARAK PROFIL/DISTANCE JARAK LANGSUNG ACCUMULATED DISTANCE		50.0	12,361.60	50.0	12,411.60	50.0	12,461.60	50.0	12,511.60		
YANG ADA/EXISTING	ELEVASI TANGGUL KIRI EXISTING LEFT BANK LEVEL	—·—·—		14.95		14.93		14.92		14.91		
	ELEVASI TANGGUL KANAN EXISTING RIGHT BANK LEVEL	- - - - -		14.95		14.93		14.92		14.91		
	ELEVASI DASAR SALURAN PADA AS EXISTING CANAL BED LEVEL	———		13.10		13.08		13.07		13.06		
	ELEVASI TANAH ASLI PADA AS SALURAN GROUND LEVEL IN CENTER LINE	········		13.10		13.08		13.07		13.06		
RENCANA/DESIGN	ELEVASI TANGGUL BANK LEVEL	———		15.11		15.09		15.08		15.06		
	ELEVASI MUKA AIR RENCANA DESIGN WATER LEVEL	▽		13.99		13.98		13.97		13.95		
	ELEVASI DASAR SALURAN CANAL BED LEVEL	▬		13.11		13.09		13.08		13.06		
	DIMENSI SALURAN DAN DATA TAMBAHAN CANAL DIMENSIONS AND ADDITIONAL DATA	Q V k B h w m I A										
	TIPE BANGUNAN TYPE OF STRUCTURE									⊚		
	RENCANA PERBAIKAN REHABILITATION PLAN			Inspection Road : RG 3						RG 2		

Rehabilitation Grade : RG 1 (no rehabilitation)
RG 2 (minor rehabilitation)
RG 3 (large scale rehabilitation)
RG 4 (replacement or new construction)

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Japan International Cooperation Agency

Drawing 300-15

Kalaena Kiri Irrigation Scheme
Plan & Profile of Main Canal (13/20)