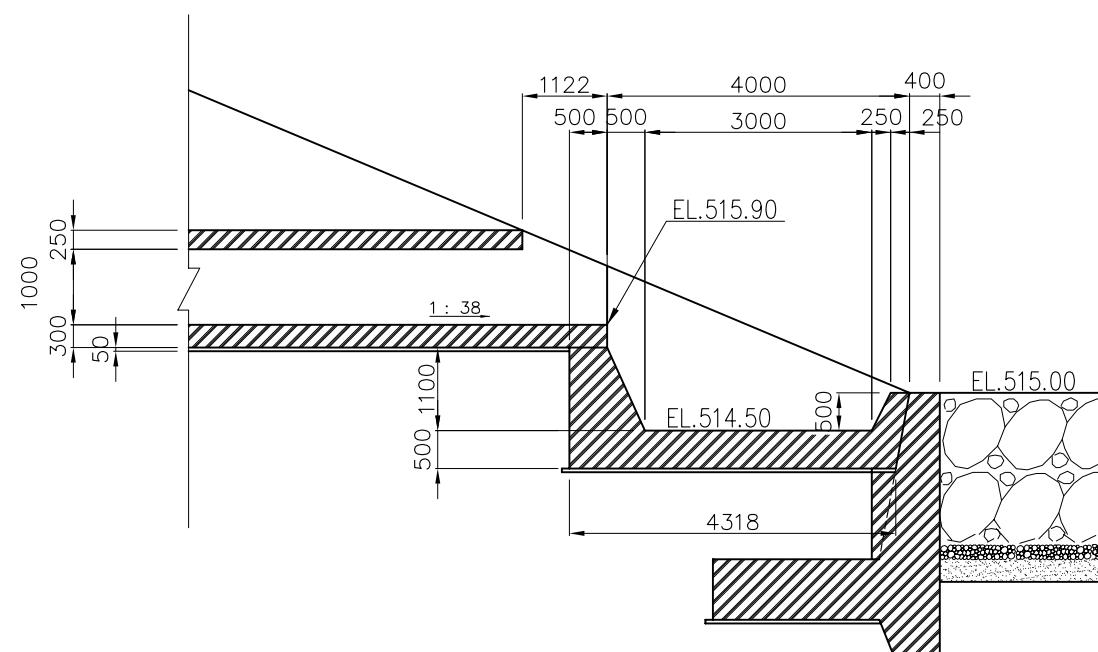
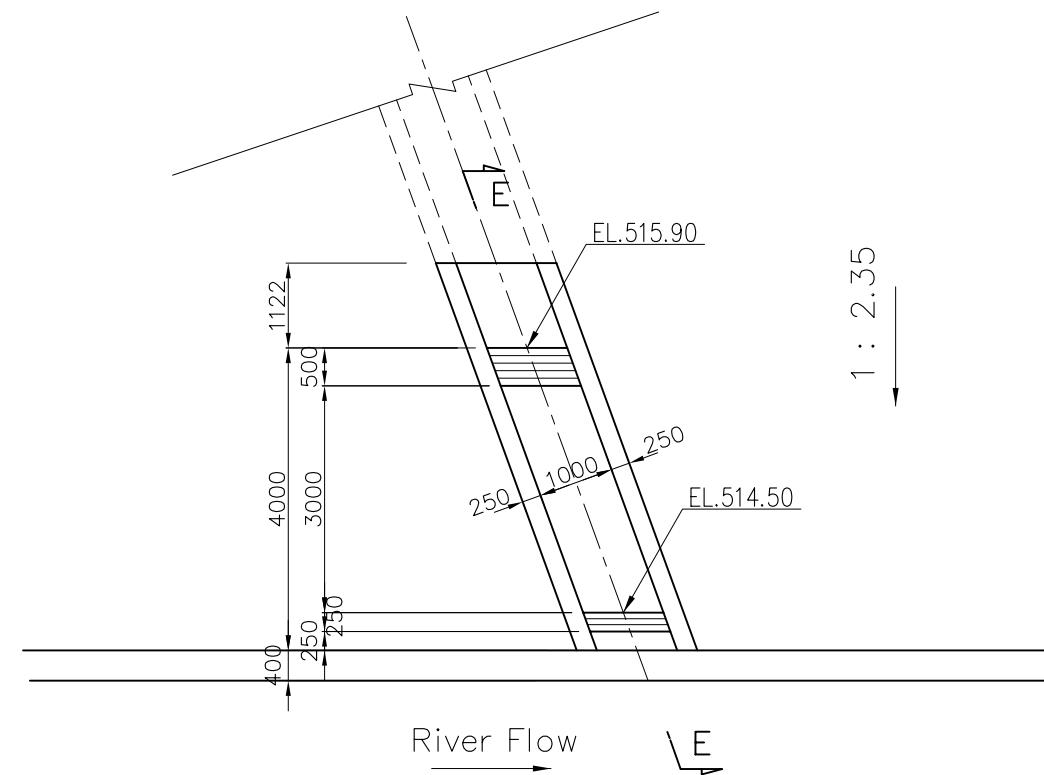
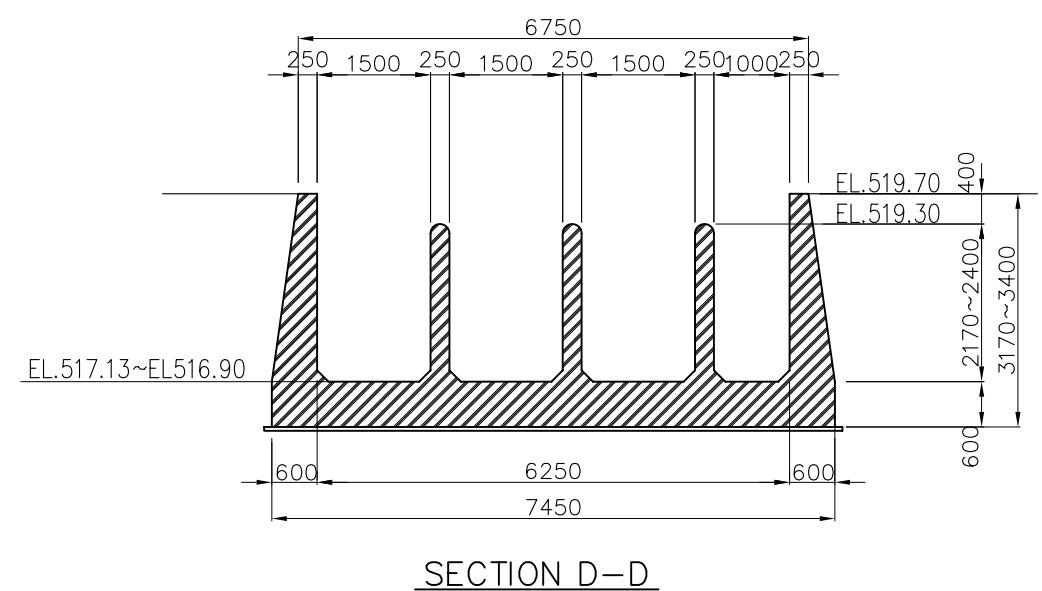
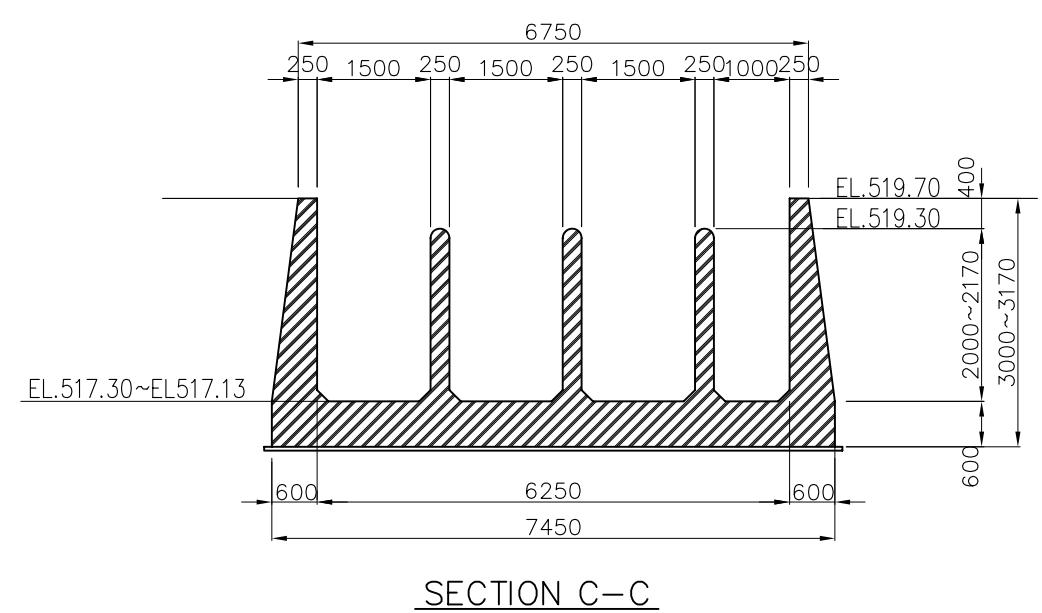
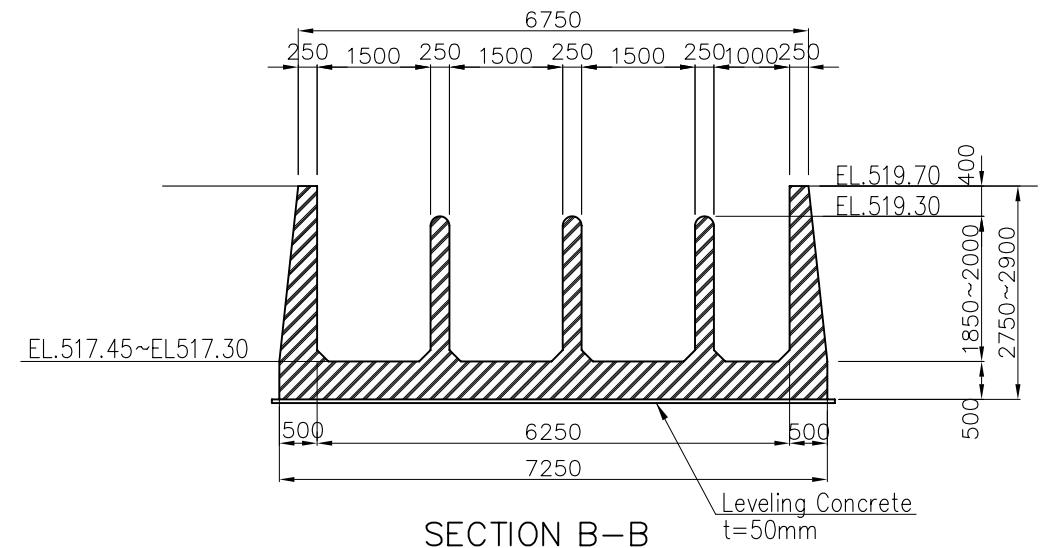


SCALE 0 5.0 10.0m
 S = 1 : 250

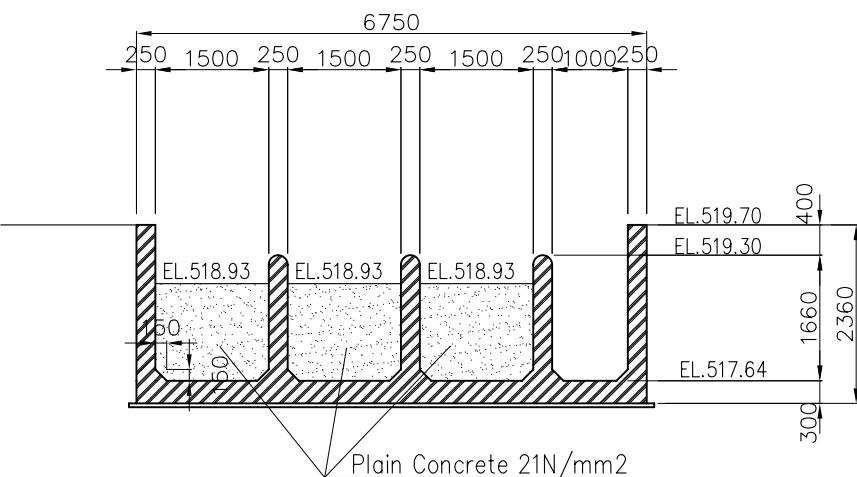
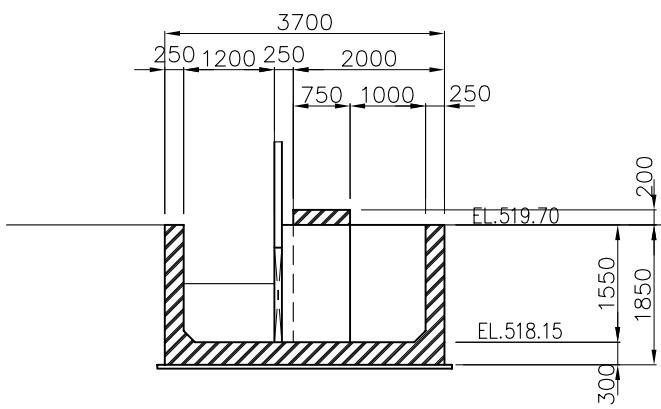
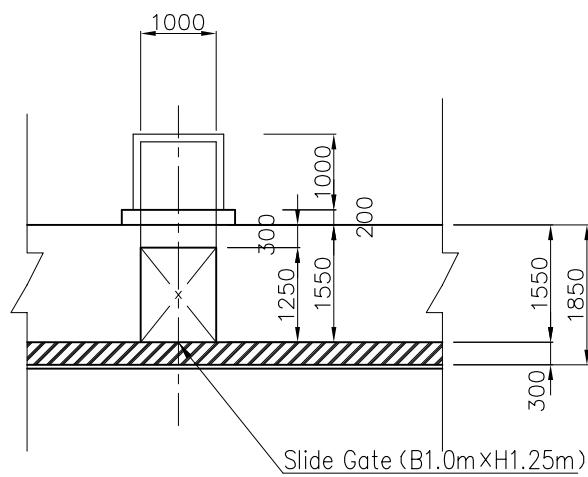
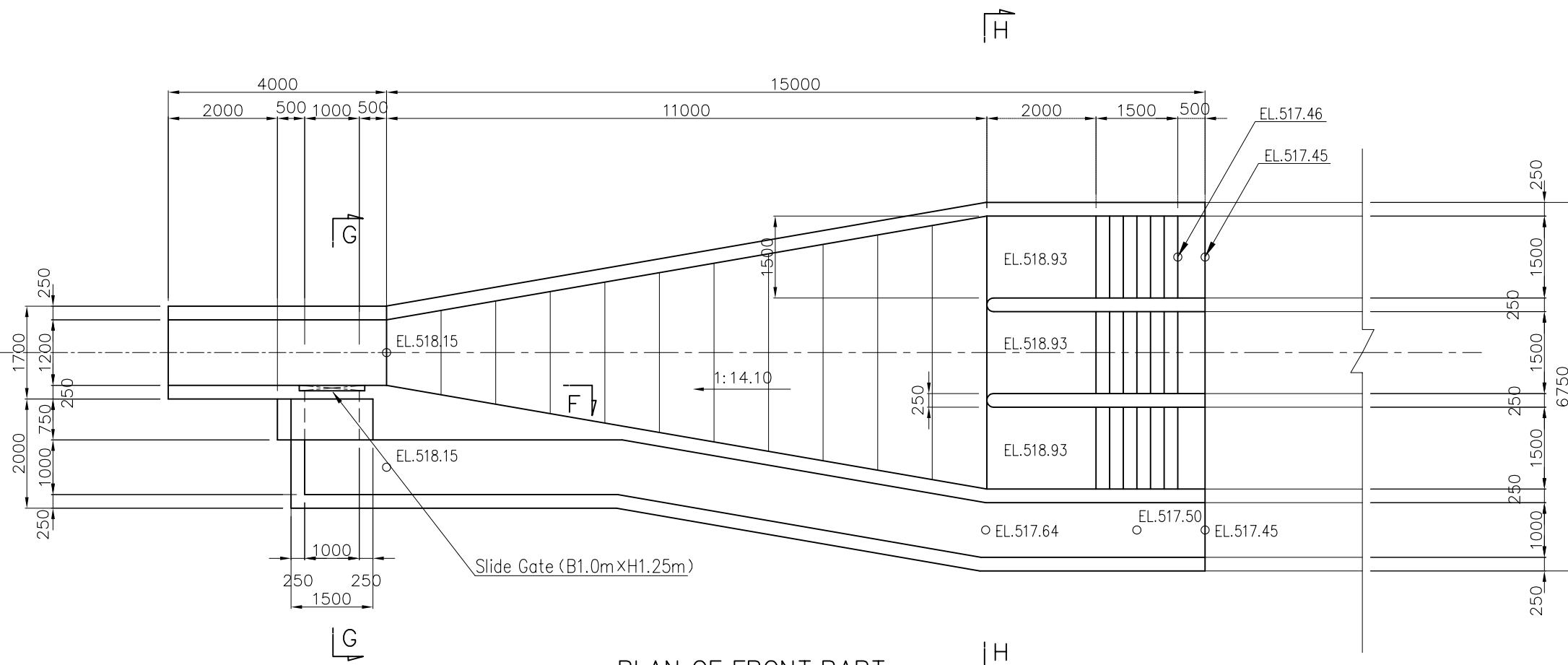
THE REPUBLIC OF MALAWI
 THE PROJECT FOR REHABILITATION OF
 BWANJE VALLEY IRRIGATION SYSTEM

TITLE OF DRAWING	
PLAN AND PROFILE OF SETTLING BASIN	
DRAWING NO.	SB-01
NIPPON KOEI CO., LTD.	



THE REPUBLIC OF MALAWI	
THE PROJECT FOR REHABILITATION OF BWANJE VALLEY IRRIGATION SYSTEM	
TITLE OF DRAWING	
SCALE	SECTION (1/3)
DRAWING NO. SB-02	
NIPPON KOEI CO., LTD.	

0 2.0 4.0m
S = 1 : 100



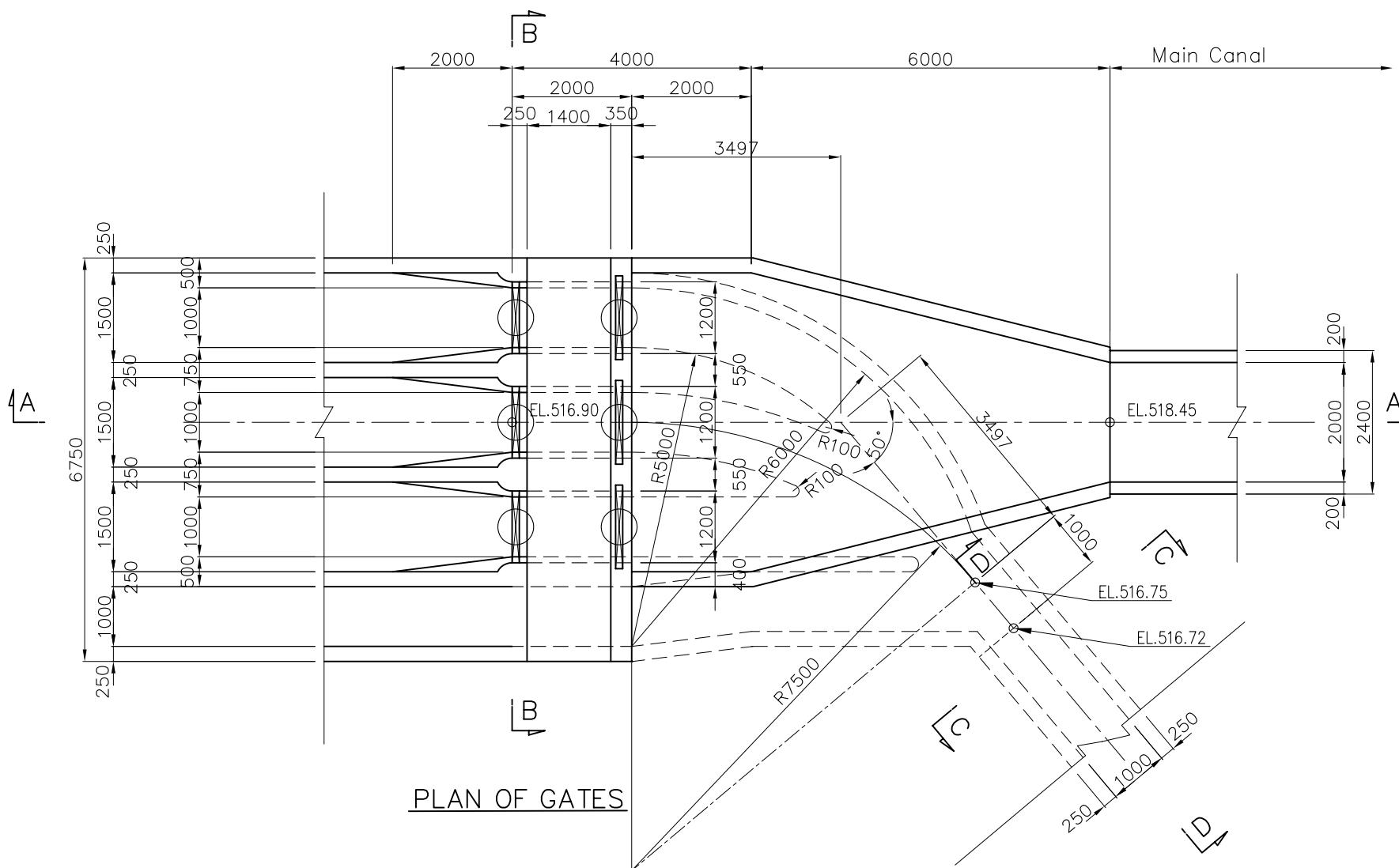
SECTION F-F

SECTION G-G

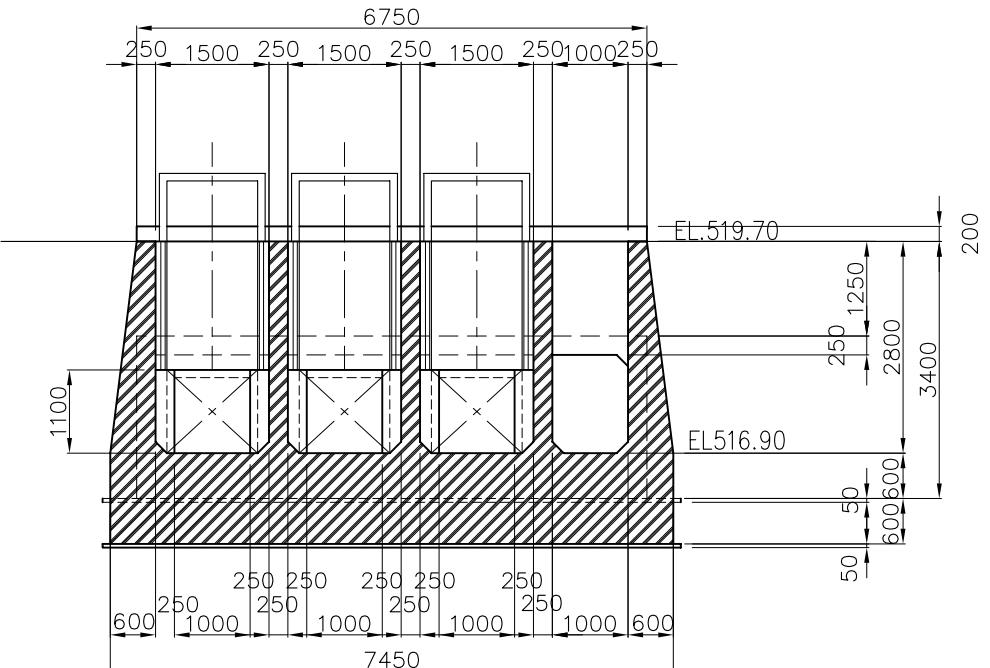
SECTION H-H

SCALE
0 2.0 4.0m
S = 1 : 100

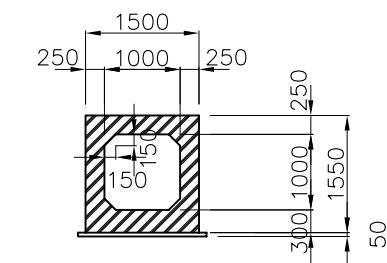
THE REPUBLIC OF MALAWI	
THE PROJECT FOR REHABILITATION OF BWANJE VALLEY IRRIGATION SYSTEM	
TITLE OF DRAWING	
SECTION (2/3)	
DRAWING NO.	SB-03
NIPPON KOEI CO., LTD.	



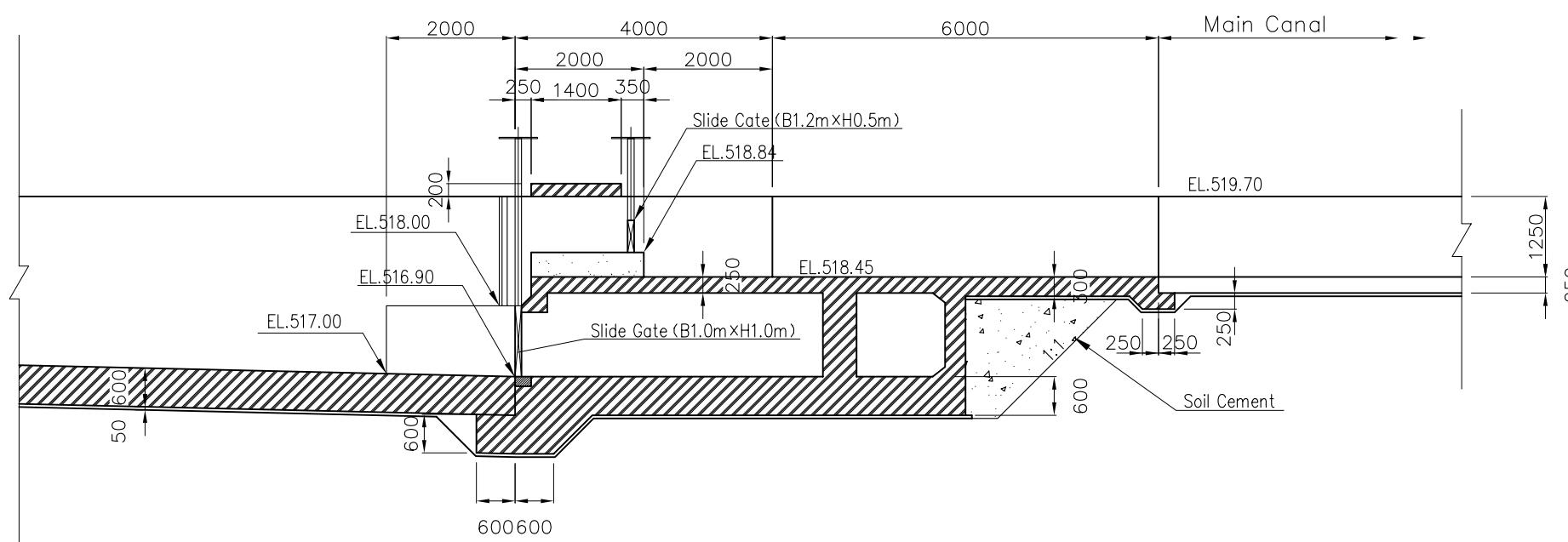
PLAN OF GATES



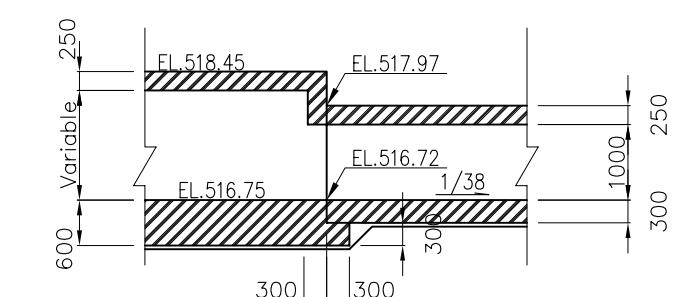
SECTION B-B



SECTION C-C



SECTION A-A



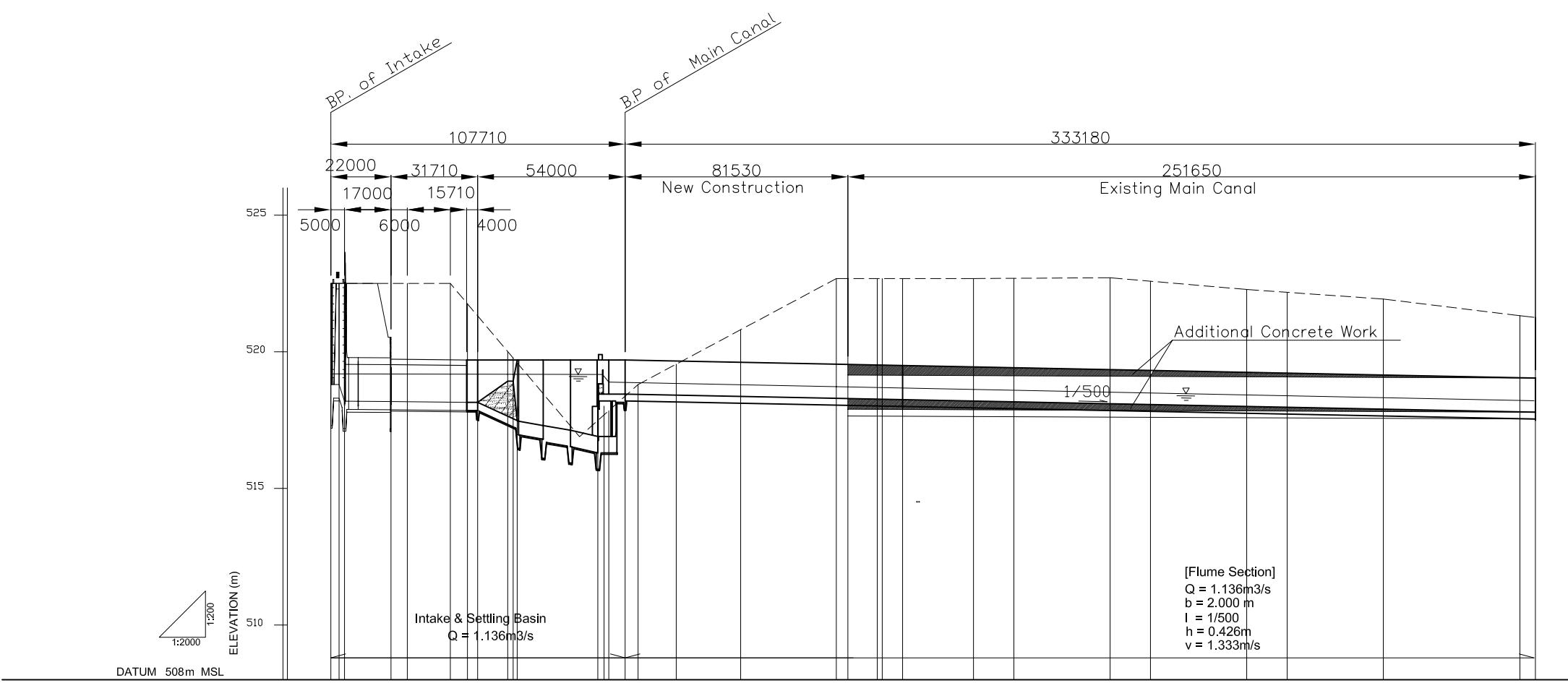
SECTION D-D

THE REPUBLIC OF MALAWI
PROJECT FOR REHABILITATION OF
THE VALLEY IRRIGATION SYSTEM

OF DRAWINGS

SECTION (3/3)

DRAWING NO. SB-04
NIPPON KOEI CO., LTD.



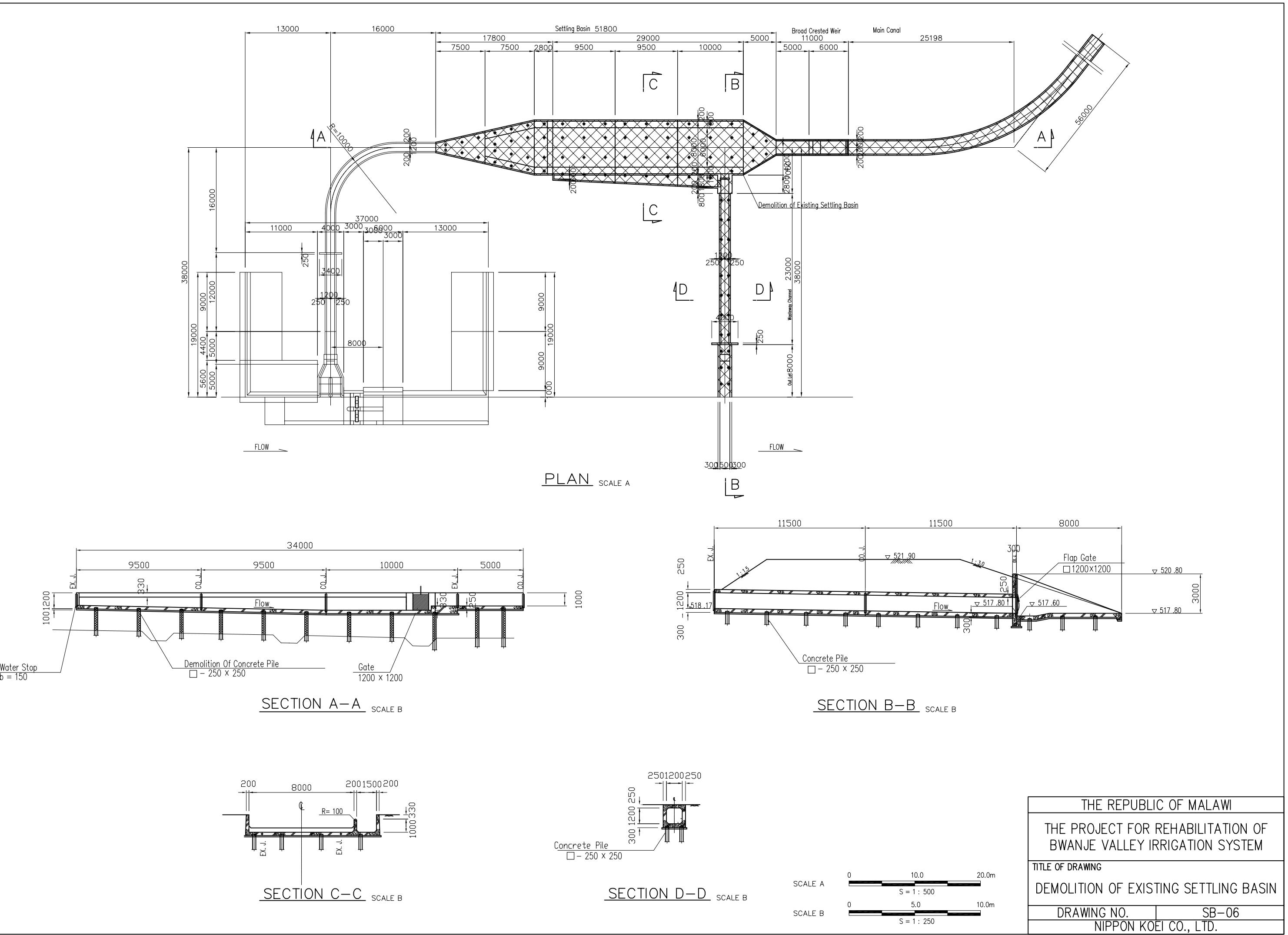
THE REPUBLIC OF MALAWI

THE PROJECT FOR REHABILITATION OF BWANJE VALLEY IRRIGATION SYSTEM

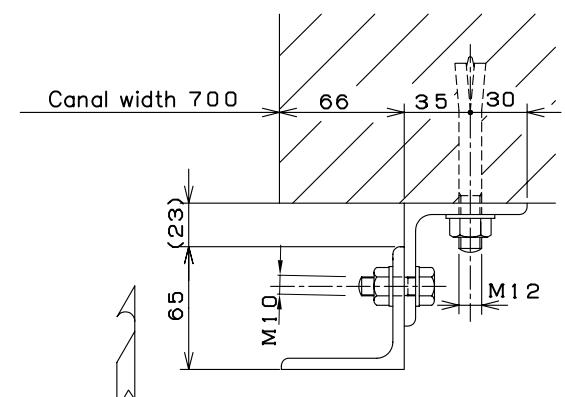
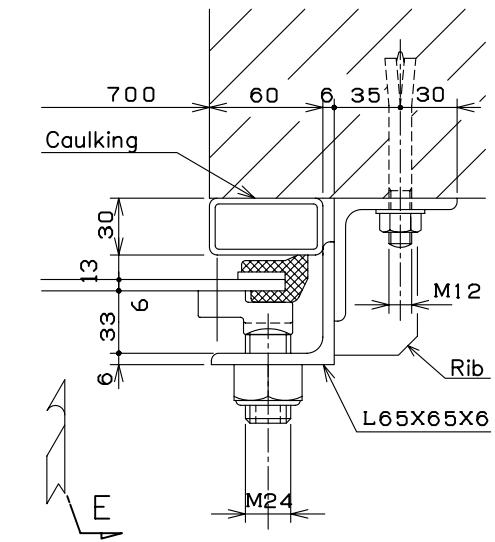
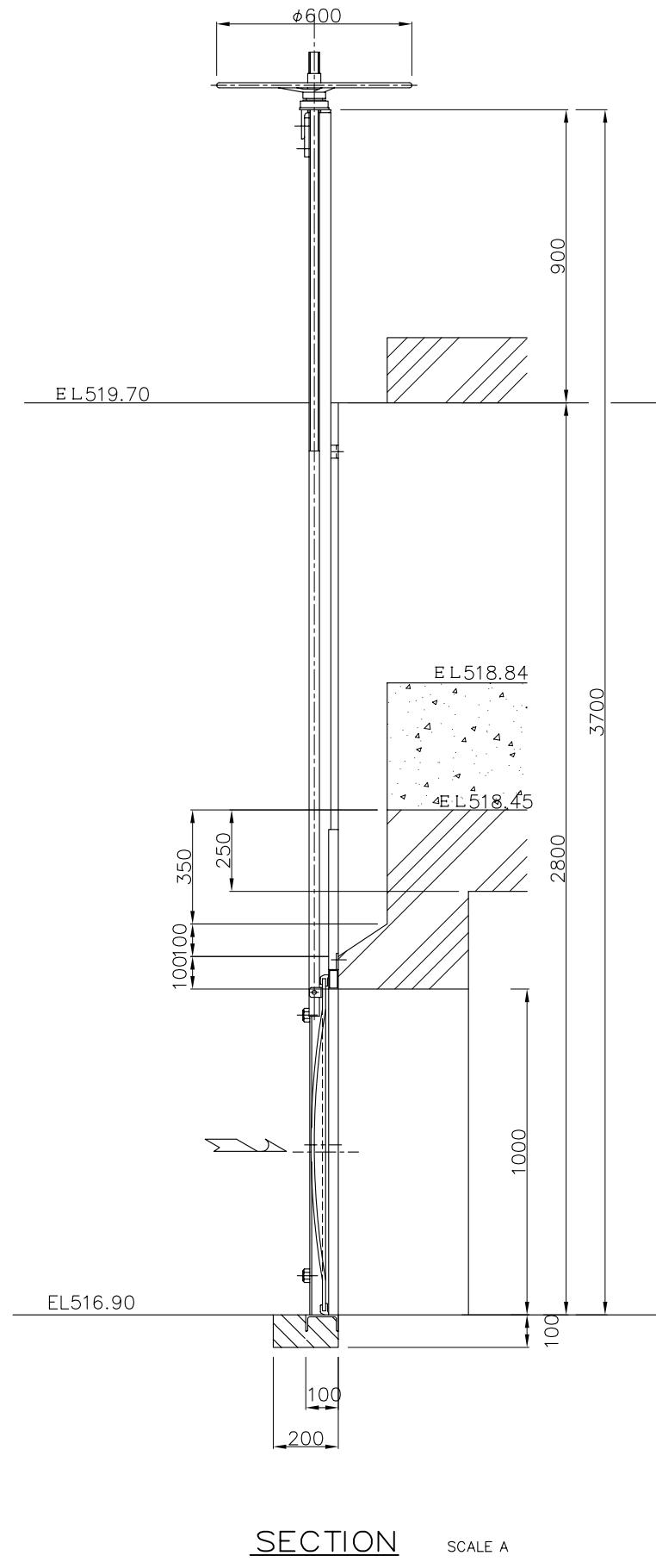
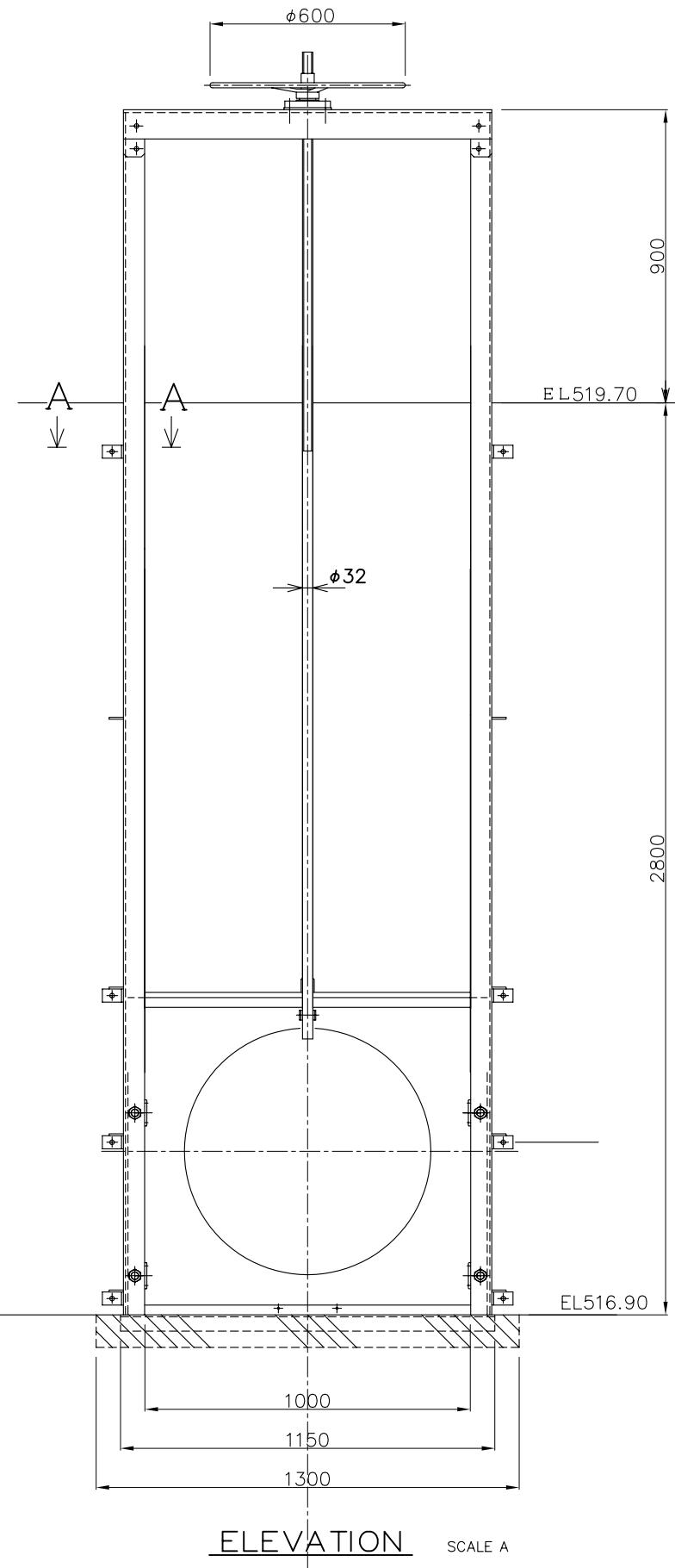
TITLE OF DRAWING

LONGITUDINAL SECTION (INTAKE TO BC.4)

DRAWING NO. | SB-05
NIPPON KOEL CO LTD



SLIDE GATE FOR SAND FLUSHING (N=3)



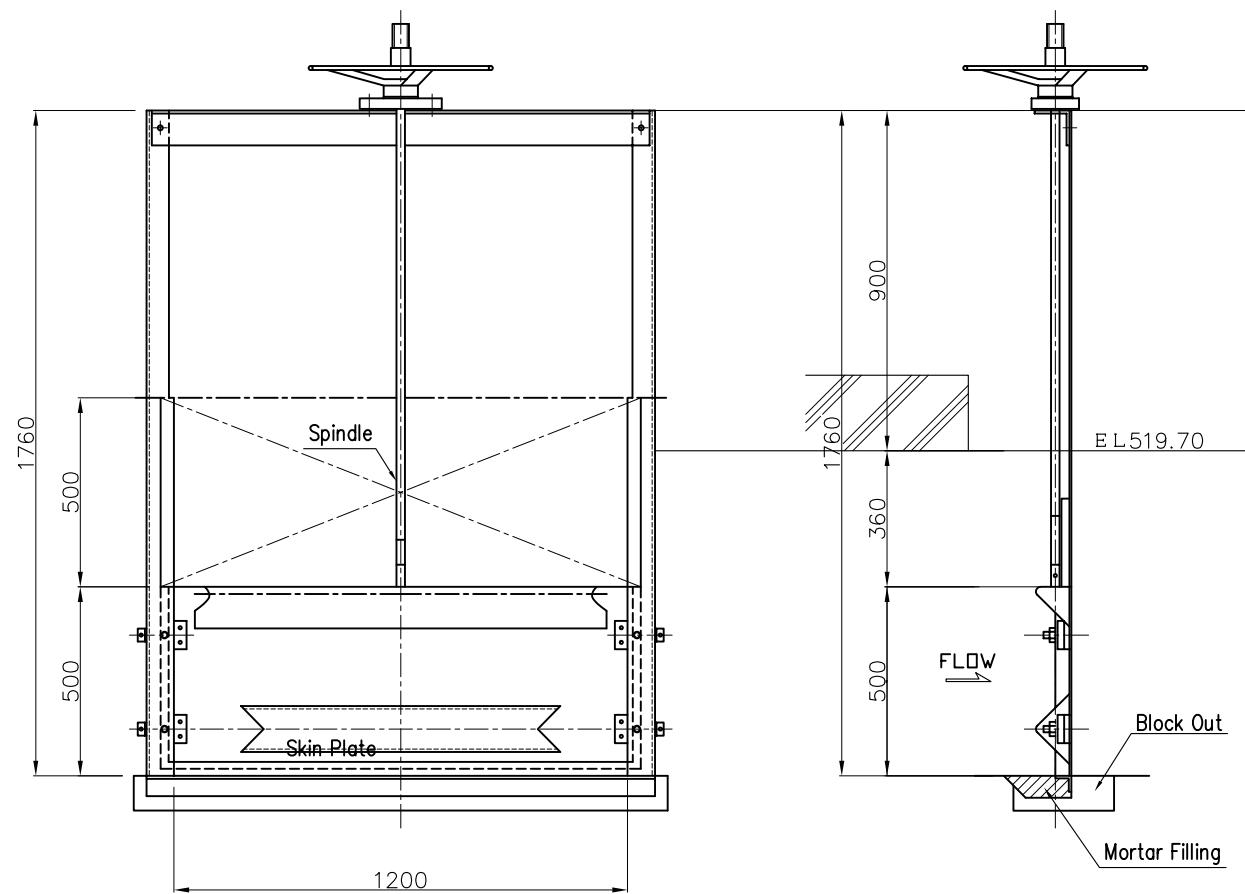
THE REPUBLIC OF MALAWI	
THE PROJECT FOR REHABILITATION OF BWANJE VALLEY IRRIGATION SYSTEM	
TITLE OF DRAWING	
DRAWING NO.	SB-07
NIPPON KOEI CO., LTD.	

0 0.4 0.8m
S = 1 : 20

0 0.08 0.16m
S = 1 : 4

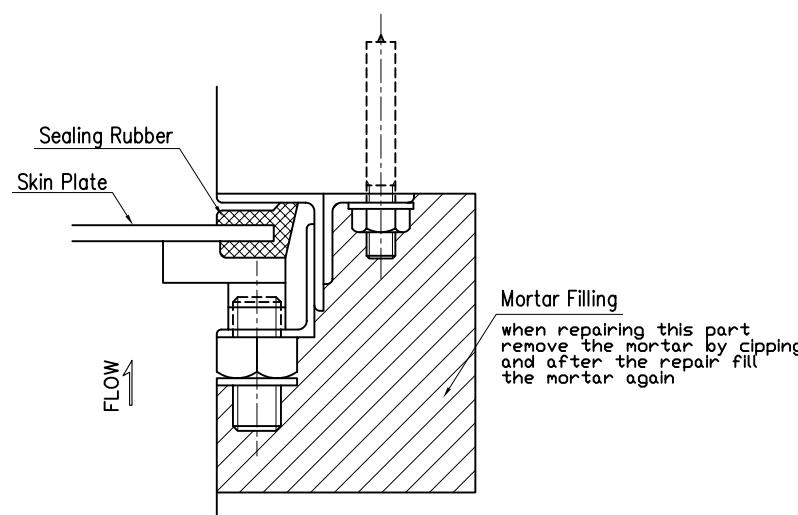
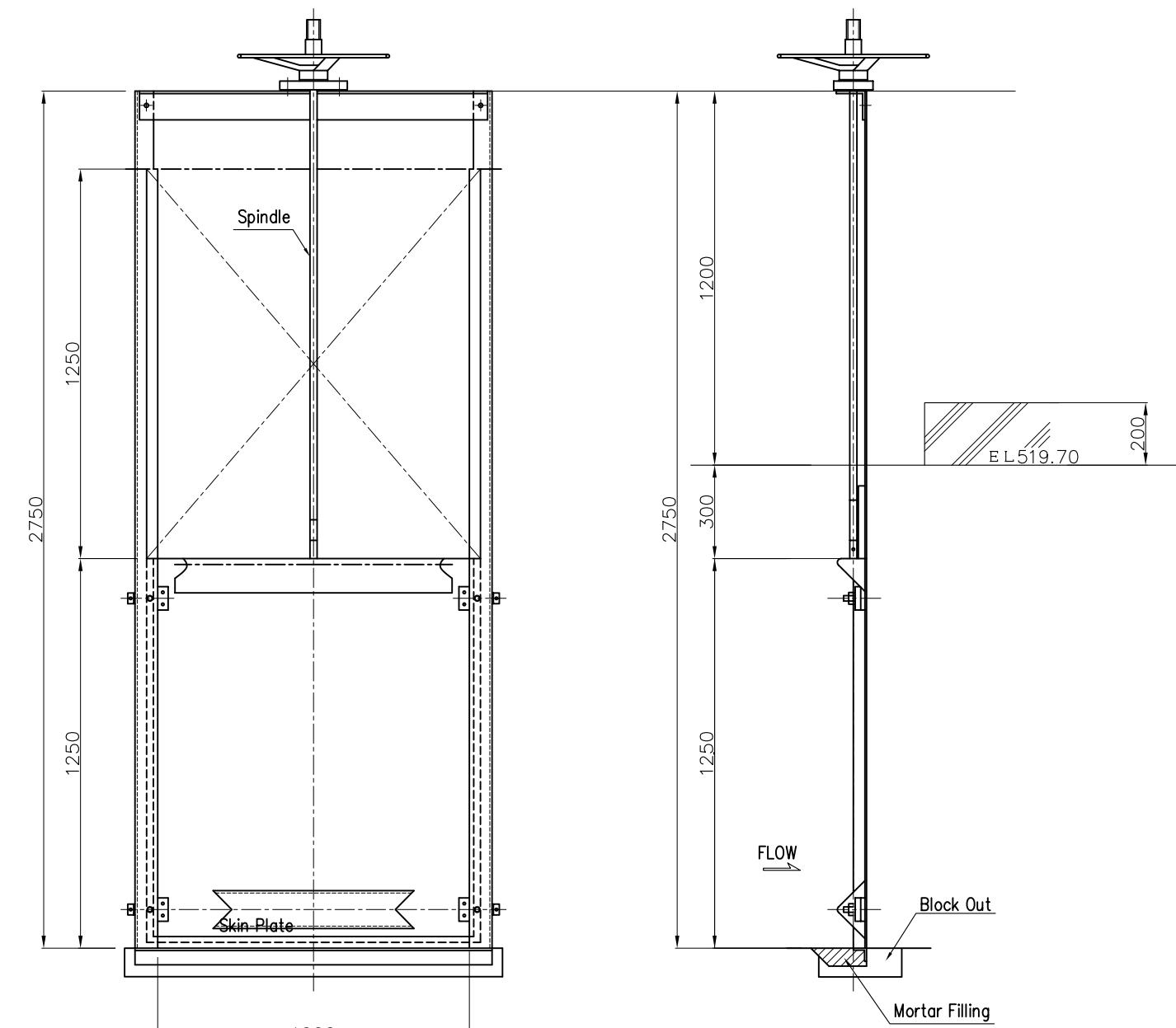
SLIDE GATE FOR CONTROL GATE (N=3)

SCALE A



SLIDE GATE FOR SPILLWAY

SCALE A



SCALE A 0 0.4 0.8m
S = 1 : 20

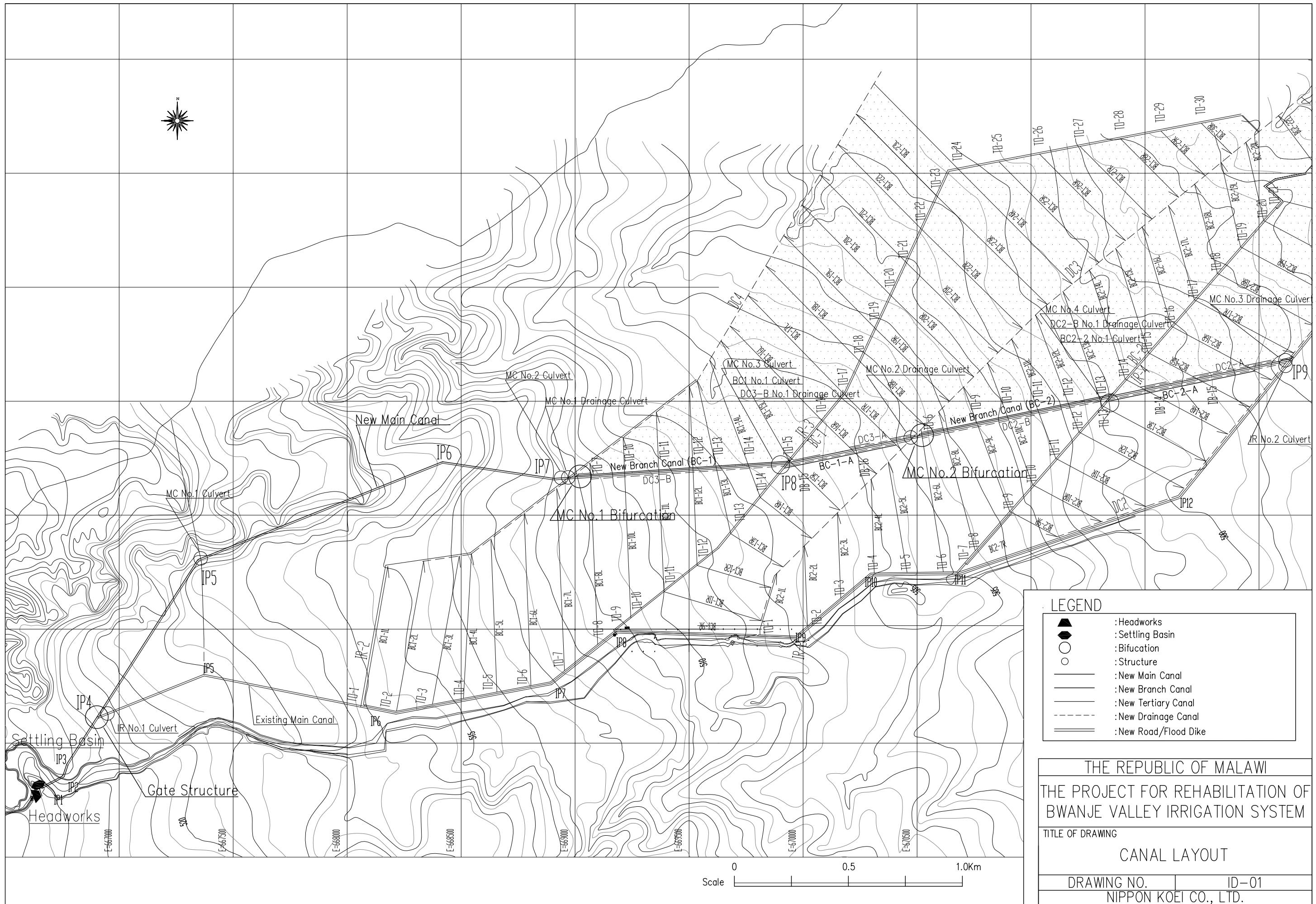
SCALE B 0 0.08 0.16m
S = 1 : 4

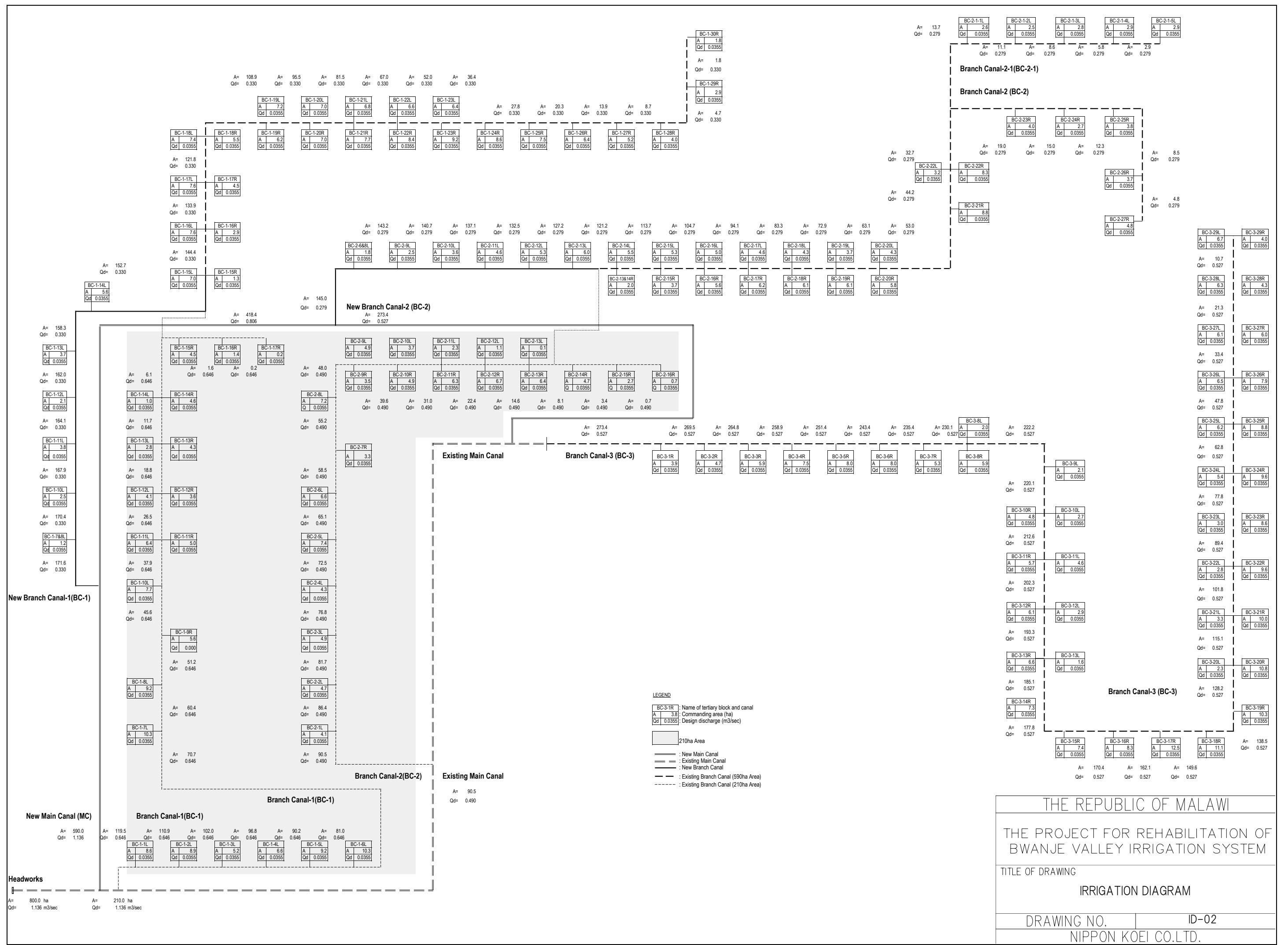
THE REPUBLIC OF MALAWI

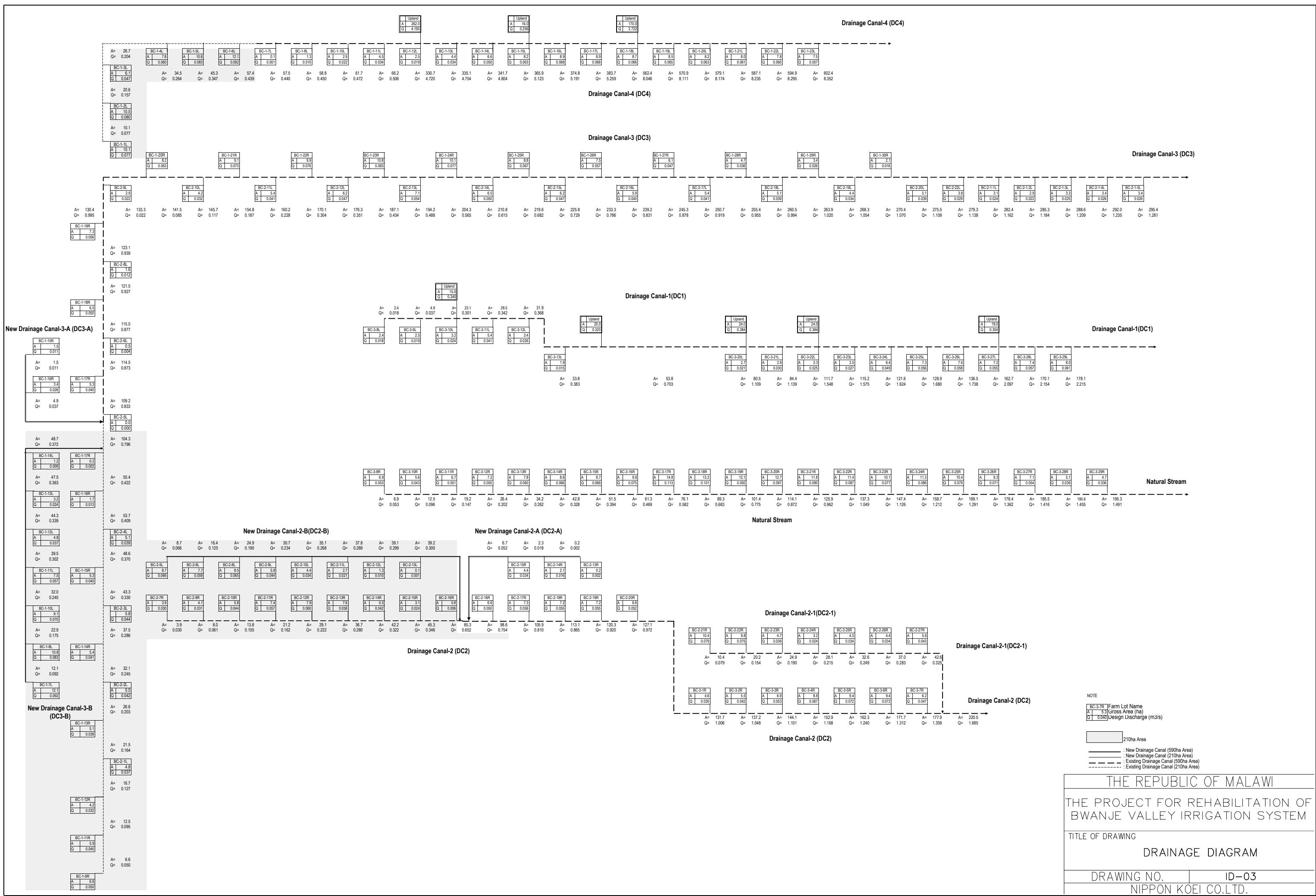
THE PROJECT FOR REHABILITATION OF
BWANJE VALLEY IRRIGATION SYSTEM

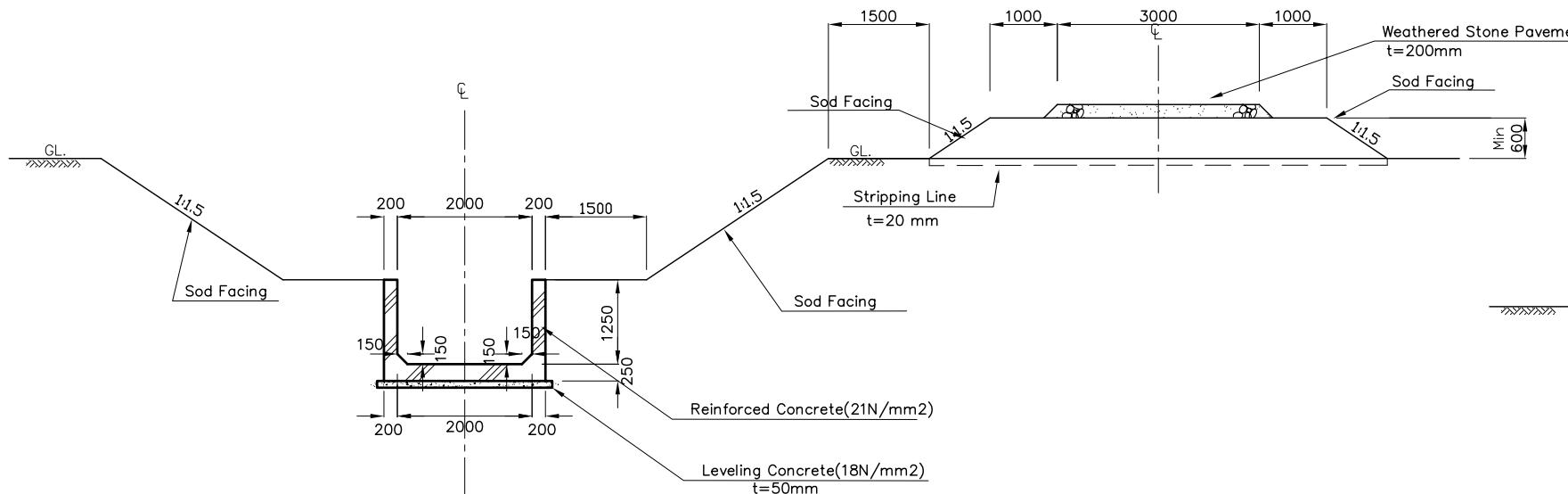
TITLE OF DRAWING
GATES FOR SETTLING BASIN (2/2)

DRAWING NO. SB-08
NIPPON KOEI CO., LTD.

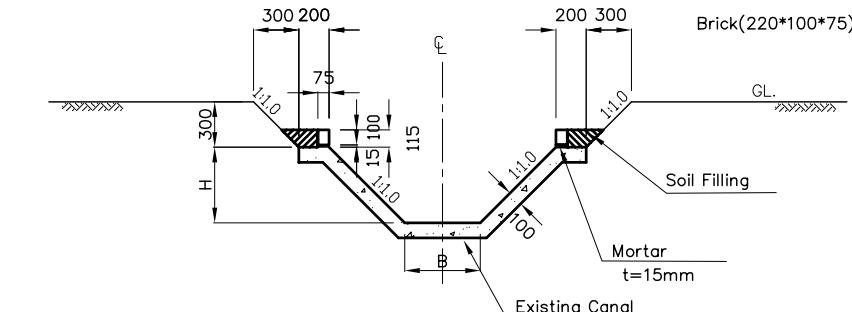




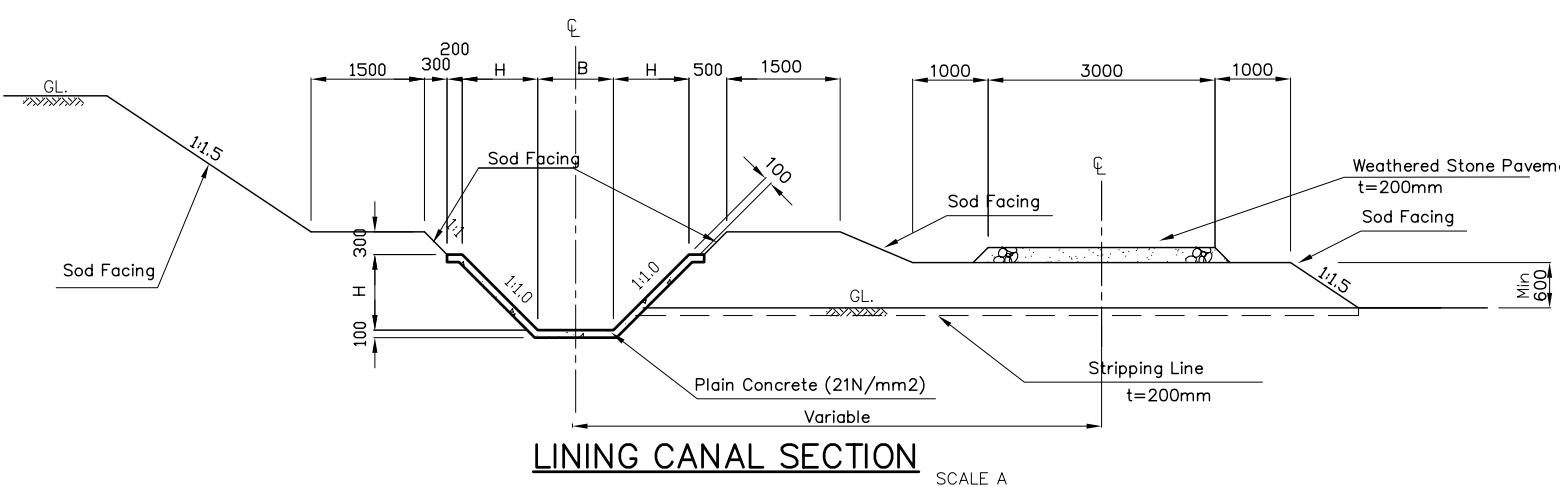




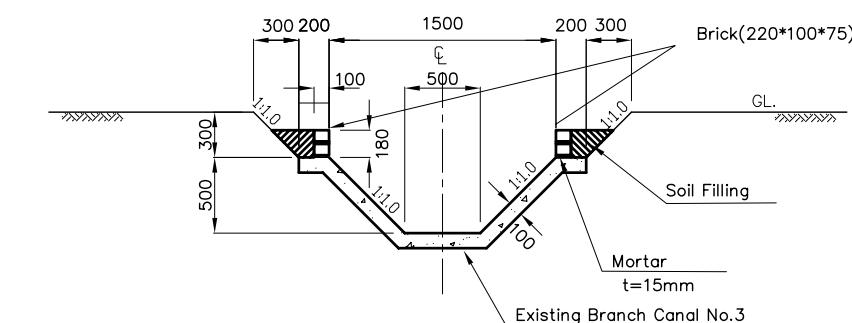
SCALE A



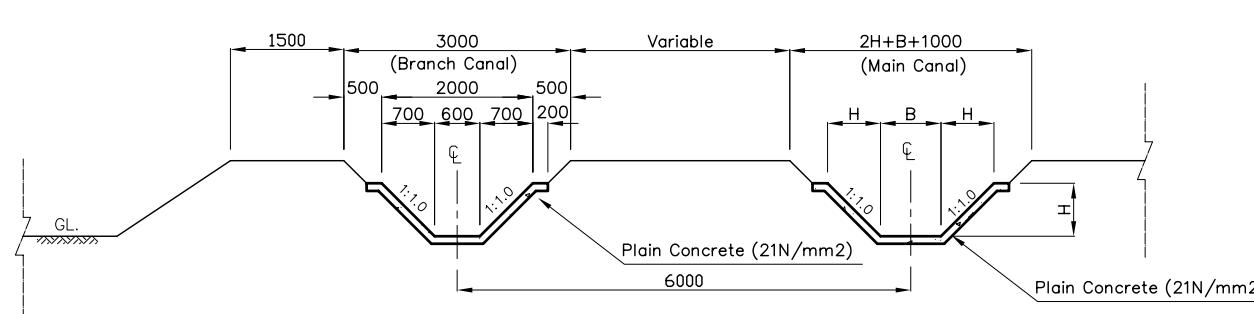
SCALE B



SCALE A



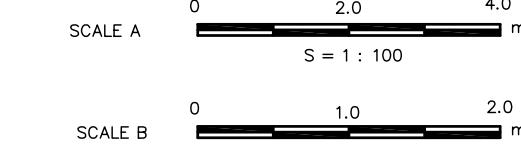
SCALE B



SCALE A

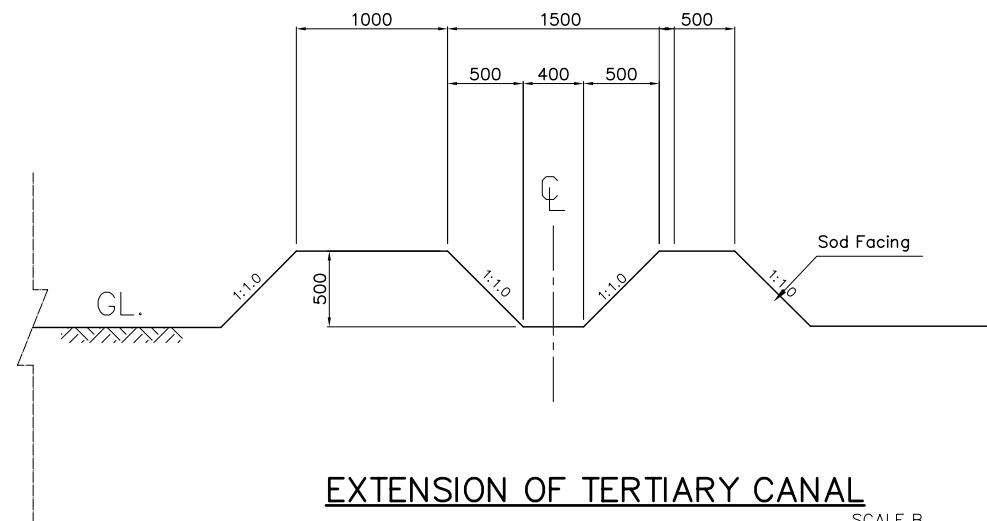
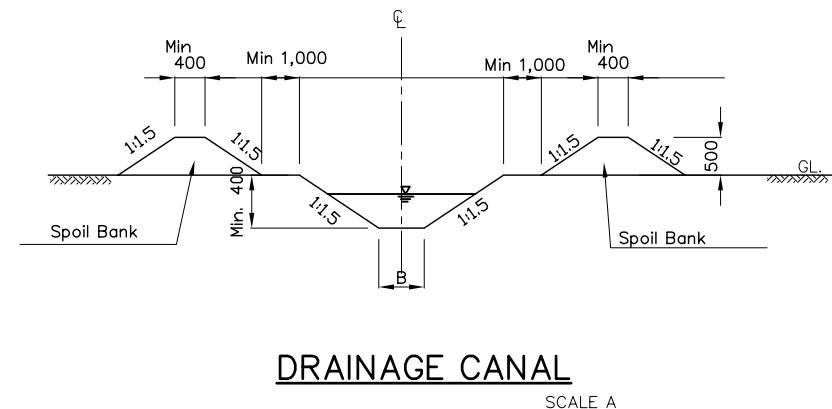
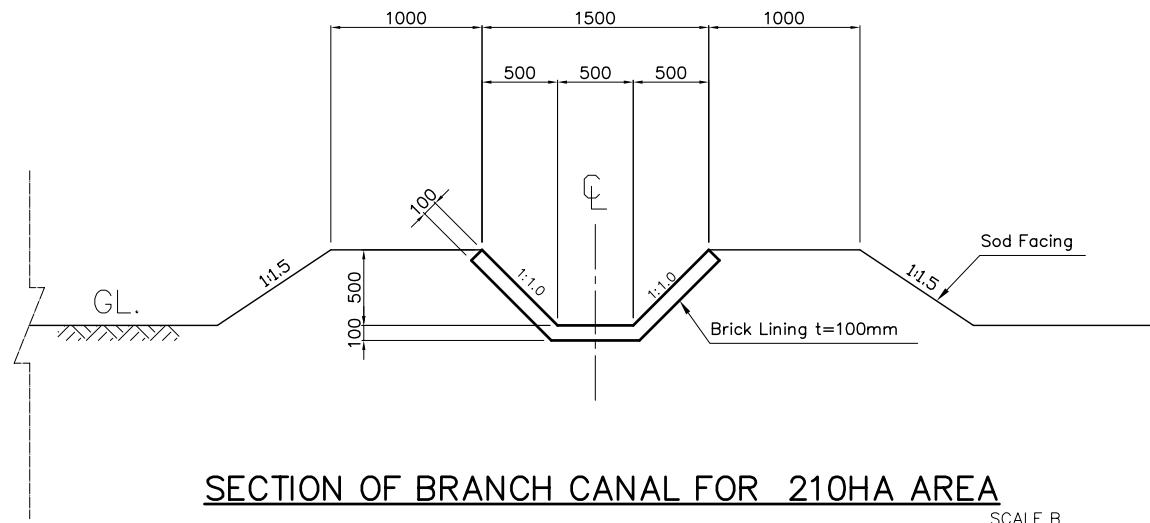
Canal Type	B(mm)	H(mm)	Applied Canal
A	1000	1000	Main Canal
B	800	700	Main Canal
C-1	600	700	BC-1, BC-2

Type	Existing Canal	Station	Length(m)	B(mm)	H(mm)
Type1	Main Canal	62+50 - 68+20	570	600	600
	Branch Canal No.1	22+70 - 48+54	2,584	500	500
	Branch Canal No.2	22+51 - 44+46	2,195	500	500
	Branch Canal No.3	0+00 - 30+60	3,060	600	600
Type2	Branch Canal No.3	30+60 - 48+40	1,780	500	500



THE REPUBLIC OF MALAWI	
THE PROJECT FOR REHABILITATION OF BWANJE VALLEY IRRIGATION SYSTEM	
TITLE OF DRAWING TYPICAL SECTION OF CANALS AND INSPECTION ROAD (1/2)	
DRAWING NO.	ID-04
NIPPON KOEI CO., LTD.	

(BC-1-A, BC-2-A)



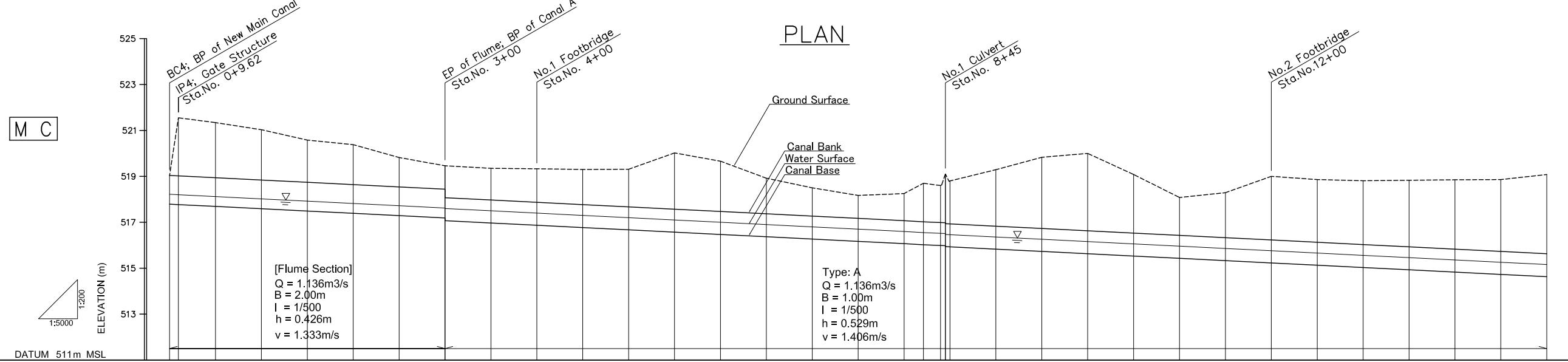
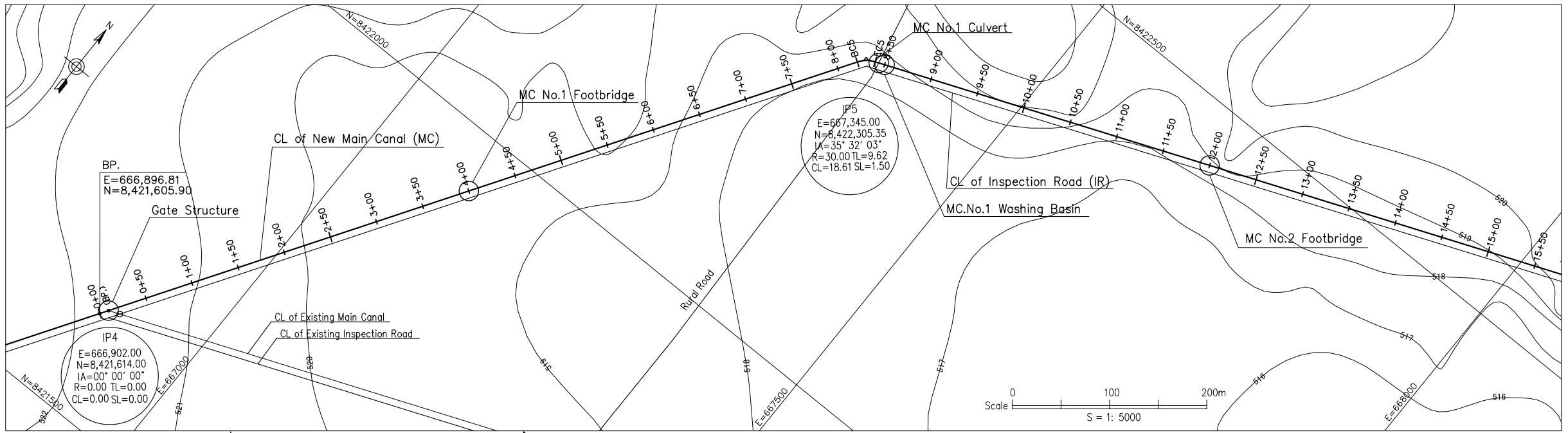
Name of Drainage Canal	Width B(mm)
DC-2-A	400
DC-3-A	400
DC-2-B	600
DC-3-B	600

Name of Branch Canal	Name of Tertiary Canal	Length (m)
BC-1	BC-1-7L	54
	BC-1-15R	119
	BC-1-16R	91
	BC-1-17R	90
BC-2	BC-2-6L	96
	BC-2-14R	117
	BC-2-15R	117
	BC-2-16R	117

SCALE A 0 2.0 4.0 m
S = 1 : 100

SCALE B 0 1.0 2.0 m
S = 1 : 50

THE REPUBLIC OF MALAWI	
THE PROJECT FOR REHABILITATION OF BWANJE VALLEY IRRIGATION SYSTEM	
TITLE OF DRAWING TYPICAL SECTION OF CANALS AND INSPECTION ROAD (2/2)	
DRAWING NO.	ID-05
NIPPON KOEI CO., LTD.	



CANAL BANK ELEVATION	519.04 519.02	518.22 518.20	517.79 517.77	519.04 521.55	518.22 521.34	517.79 517.59	518.02 518.84	517.99 517.92	517.74 517.74	518.82 517.82	517.29 517.29	517.72 517.72	518.54 518.54
WATER SURFACE ELEVATION	519.04 519.02	518.22 518.20	517.79 517.77	519.04 521.55	518.22 521.34	517.79 517.59	518.02 518.84	517.99 517.92	517.74 517.74	518.82 517.82	517.29 517.29	517.72 517.72	518.54 518.54
CANAL BASE ELEVATION	519.04 519.02	518.22 518.20	517.79 517.77	519.04 521.55	518.22 521.34	517.79 517.59	518.02 518.84	517.99 517.92	517.74 517.74	518.82 517.82	517.29 517.29	517.72 517.72	518.54 518.54
GROUND SURFACE ELEVATION	519.04 519.02	518.22 518.20	517.79 517.77	519.04 521.55	518.22 521.34	517.79 517.59	518.02 518.84	517.99 517.92	517.74 517.74	518.82 517.82	517.29 517.29	517.72 517.72	518.54 518.54
ACCUMULATED DISTANCE	0.00 9.62	40.38	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
DISTANCE	0+00 9.62	0+50	1+00	1+50	2+00	2+50	3+00	3+50	4+00	4+50	5+00	5+50	6+00
STATION No.	IP-4 0+00	0+50	1+00	1+50	2+00	2+50	3+00	3+50	4+00	4+50	5+00	5+50	6+00

PROFILE

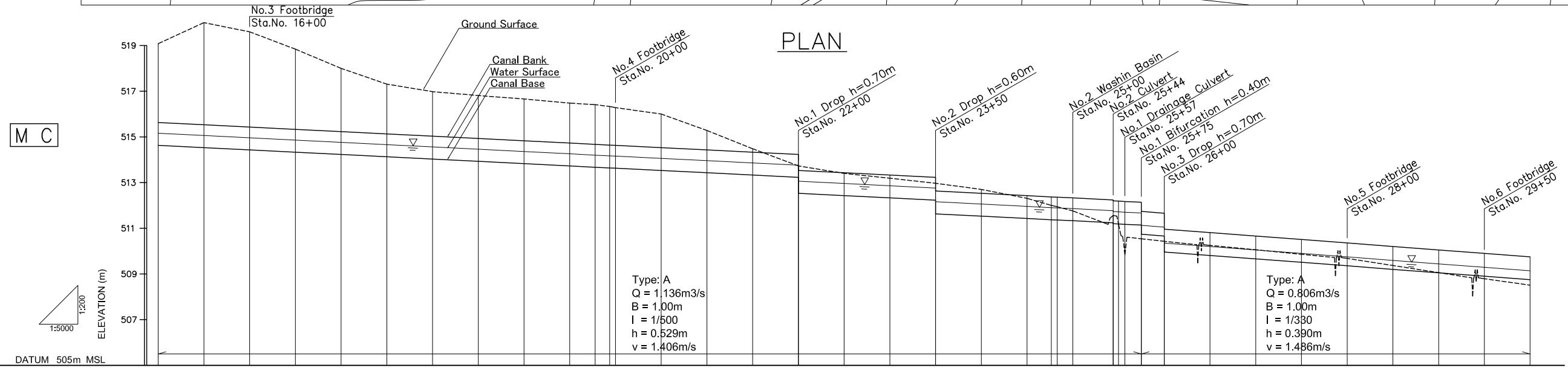
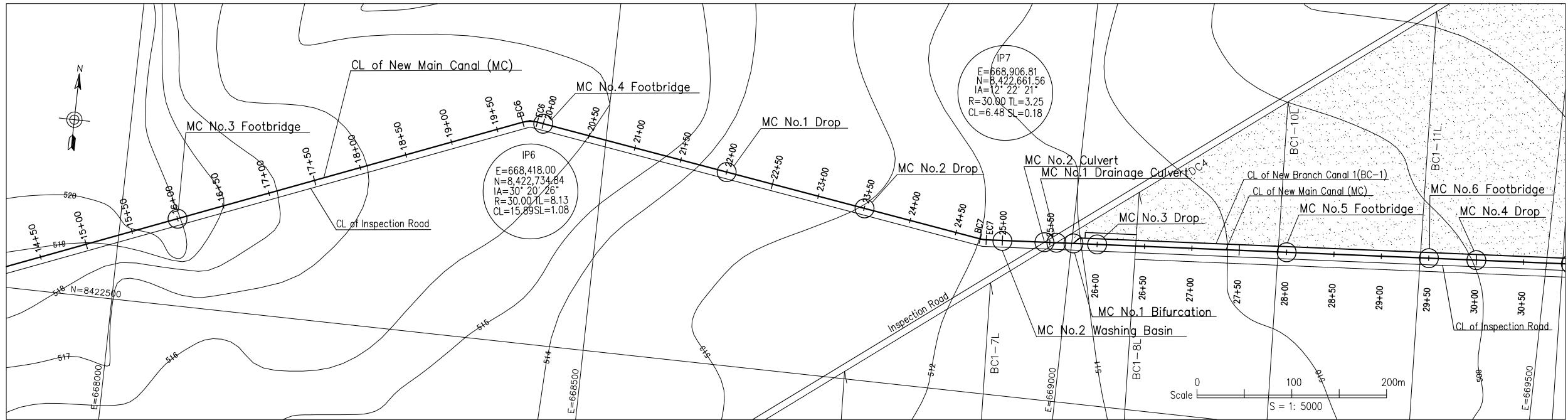
THE REPUBLIC OF MALAWI

THE PROJECT FOR REHABILITATION OF
BWANJE VALLEY IRRIGATION SYSTEM

TITLE OF DRAWING

PLAN AND PROFILE OF MC (1/4)

DRAWING NO. ID-06
NIPPON KOEI CO., LTD.



CANAL BANK ELEVATION
WATER SURFACE ELEVATION
CANAL BASE ELEVATION
GROUND SURFACE ELEVATION
ACCUMULATED DISTANCE
DISTANCE
STATION No.

PROFILE

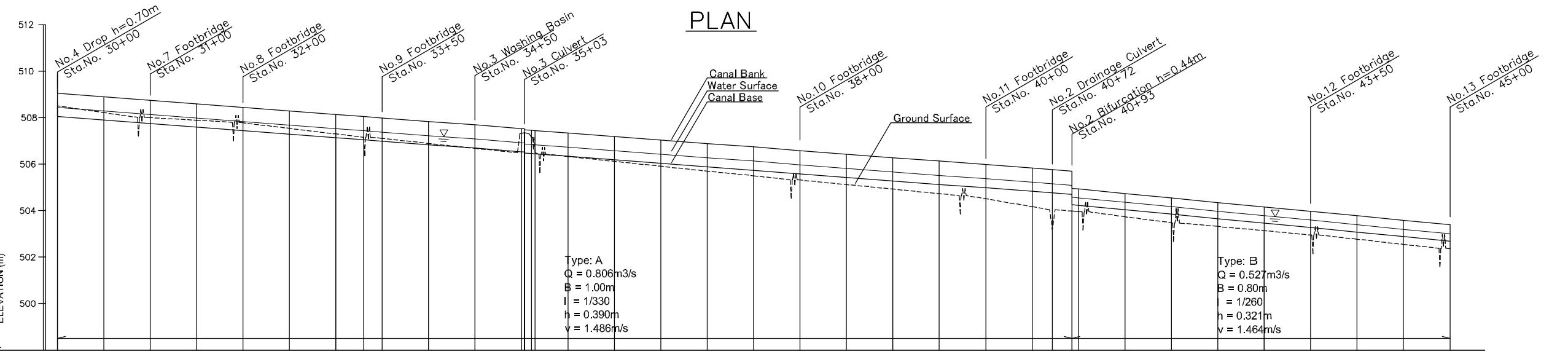
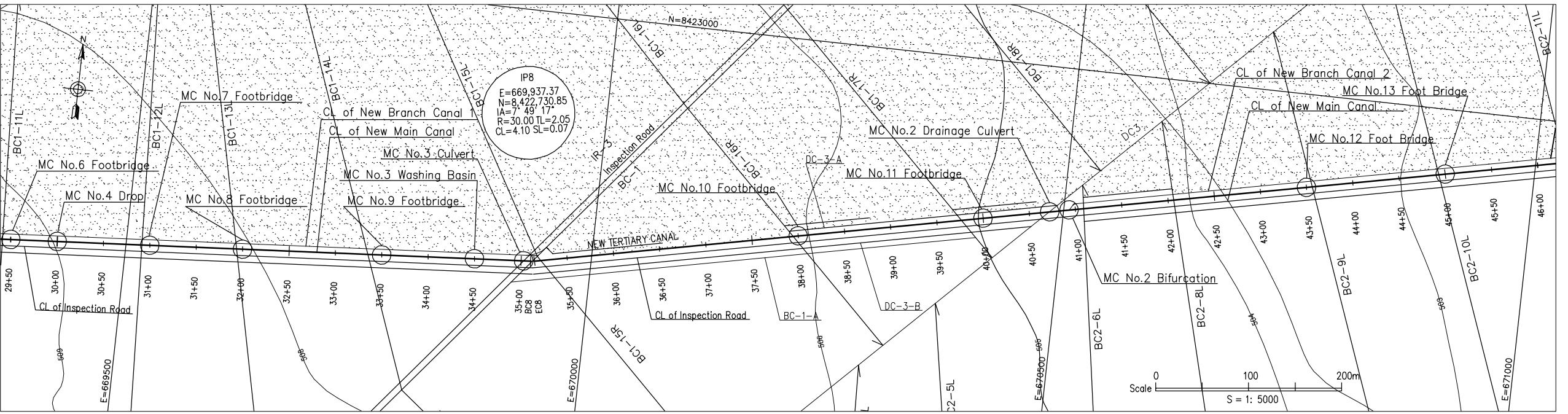
THE REPUBLIC OF MALAWI

THE PROJECT FOR REHABILITATION OF BWANJE VALLEY IRRIGATION SYSTEM

TITLE OF DRAWING

PLAN AND PROFILE OF MC (2/4)

DRAWING NO. ID-07
NIPPON KOEI CO., LTD.



CANAL BANK ELEVATION
508.90
508.89
508.88
508.87
508.86

WATER SURFACE ELEVATION
508.44
508.43
508.42
508.41
508.40

CANAL BASE ELEVATION
508.75
508.74
508.73
508.72
508.71

GROUND SURFACE ELEVATION
508.90
508.89
508.88
508.87
508.86

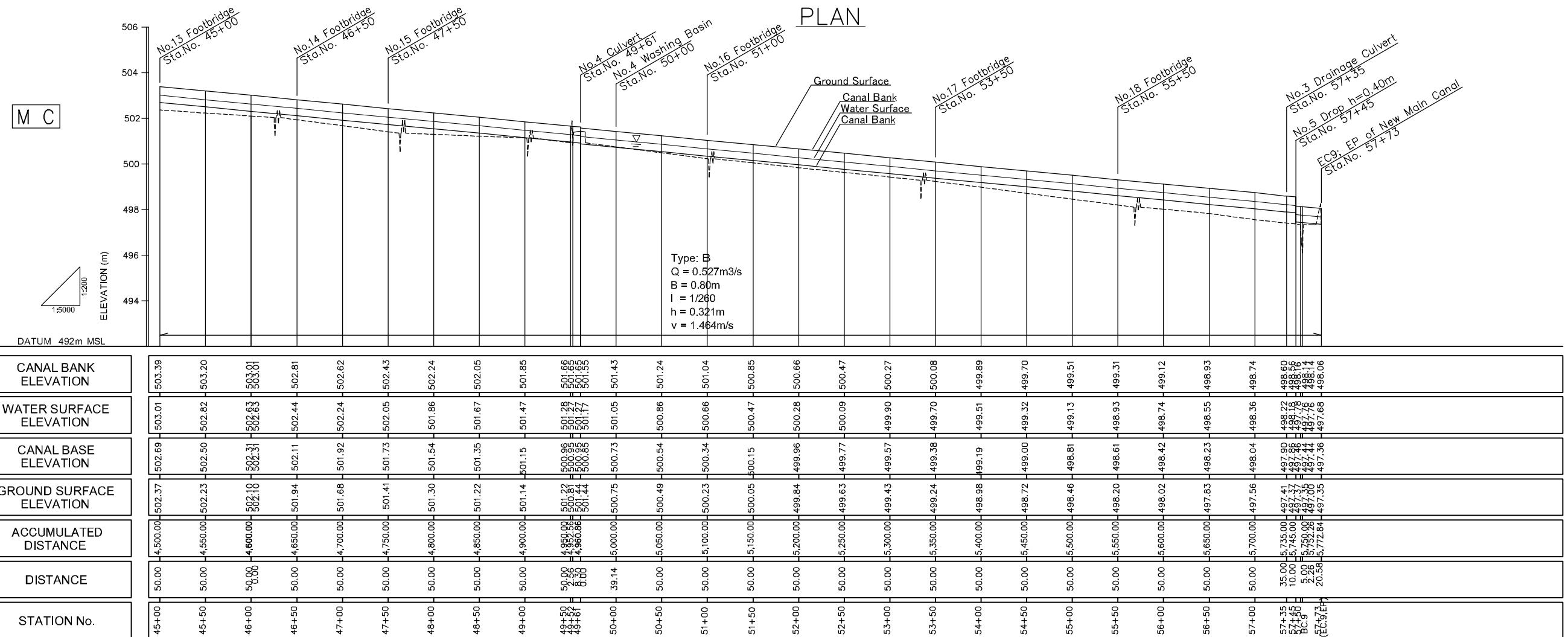
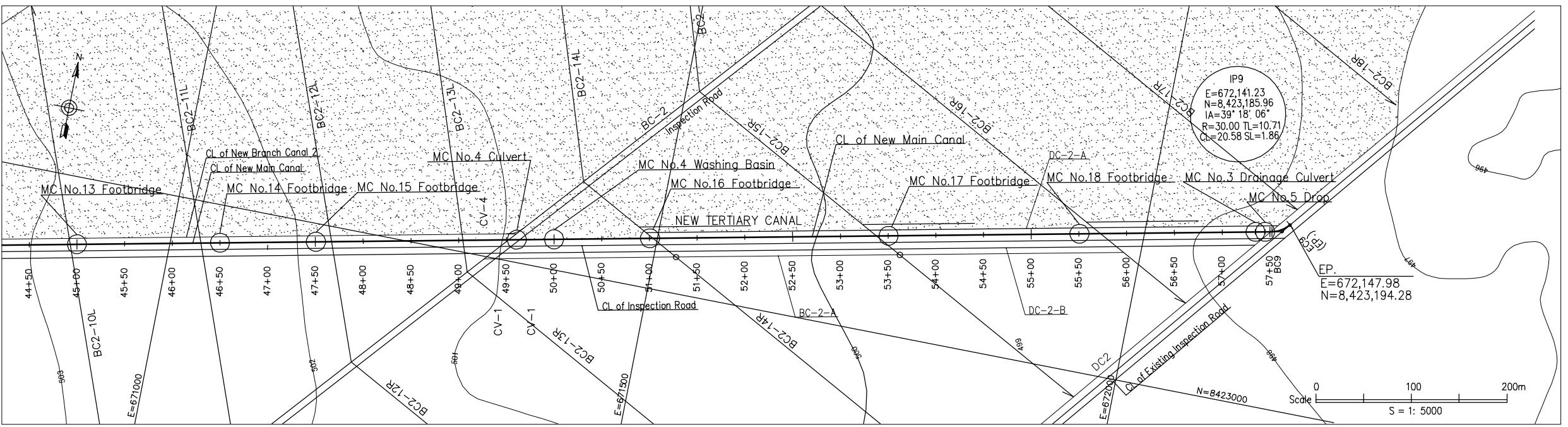
ACCUMULATED DISTANCE
0.00
3.00
6.00
9.00
12.00

DISTANCE
0.00
3.00
6.00
9.00
12.00

STATION No.
30+00
30+50
31+00
31+50
32+00

PROFILE

THE REPUBLIC OF MALAWI	
THE PROJECT FOR REHABILITATION OF BWANJE VALLEY IRRIGATION SYSTEM	
TITLE OF DRAWING	
PLAN AND PROFILE OF MC (3/4)	ID-08
DRAWING NO.	NIPPON KOEI CO., LTD.



PROFILE

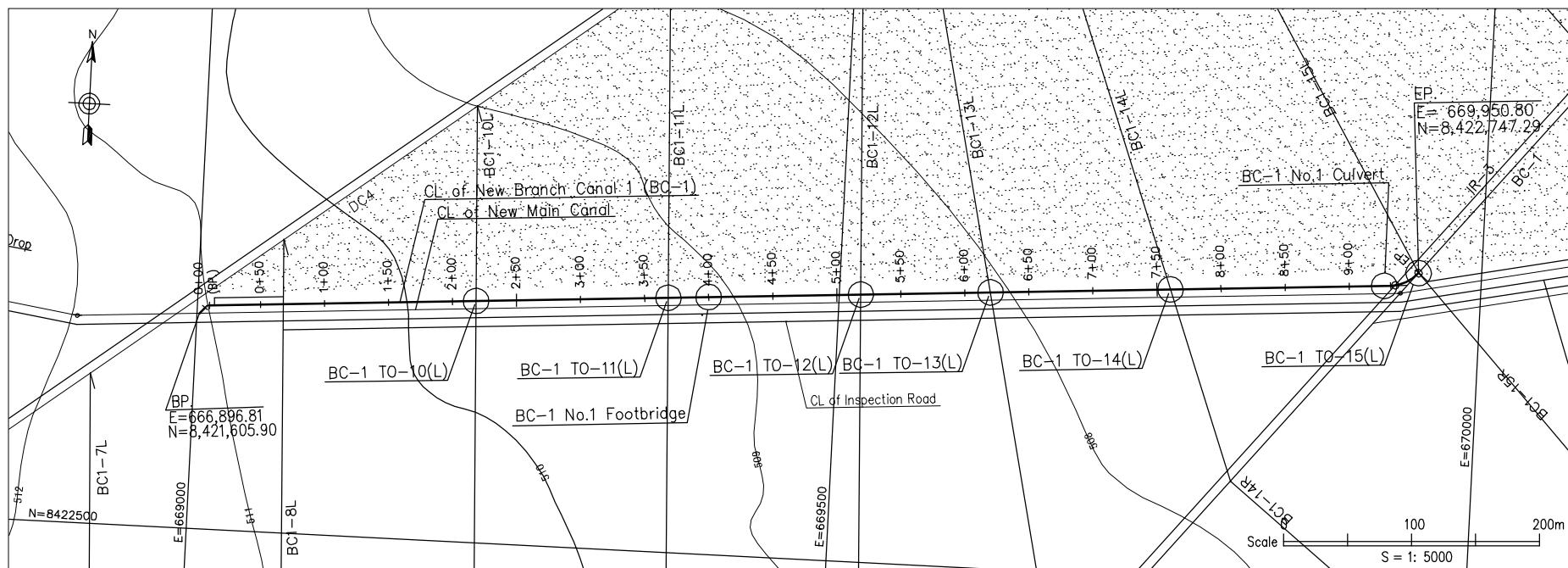
THE REPUBLIC OF MALAWI

THE PROJECT FOR REHABILITATION OF BWANJE VALLEY IRRIGATION SYSTEM

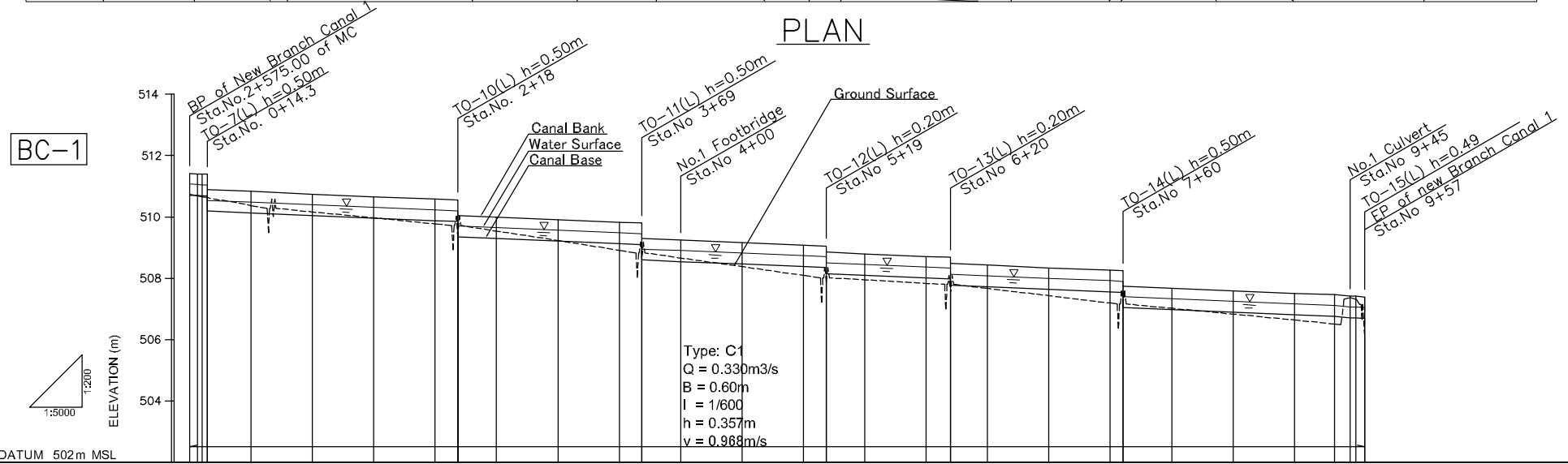
LE OF DRAWING

PLAN AND PROFILE OF MC (4/4)

DRAWING NO. ID-09
NIPPON KOEI CO., LTD.



PLAN



CANAL BANK ELEVATION
0+00 50.00 100.00 510.16 510.04 510.40 510.74
0+50 35.70 50.00 150.00 510.37 510.13 510.48 510.83
1+00 50.00 100.00 510.16 510.04 510.40 510.74
1+50 50.00 150.00 509.97 509.96 510.32 510.66
2+00 50.00 200.00 509.77 509.88 510.23 510.58
2+18 18.44 218.44 509.36 509.85 510.20 510.55
2+50 50.00 250.00 509.54 509.29 509.65 509.99
3+00 50.00 300.00 509.23 509.21 509.57 509.91
3+50 50.00 350.00 508.91 509.13 509.48 509.83
3+69 18.51 388.51 508.68 508.10 508.45 509.30
4+00 50.00 400.00 508.66 508.54 508.90 509.24
4+50 50.00 450.00 508.38 508.46 508.82 509.16
5+00 50.00 500.00 508.09 508.38 508.73 509.08
5+19 18.75 518.75 507.85 508.15 508.50 508.85
5+50 50.00 550.00 507.95 508.09 508.45 508.79
6+00 50.00 600.00 507.83 508.01 508.37 508.71
6+20 19.96 619.96 507.53 507.98 508.33 508.68
6+50 50.00 650.00 507.67 507.73 508.08 508.43
7+00 50.00 700.00 507.43 507.64 508.00 508.34
7+50 50.00 750.00 507.19 507.56 507.92 508.26
7+60 50.00 760.48 507.09 507.54 507.97 509.24
8+00 50.00 800.00 507.02 506.98 507.33 507.68
8+50 50.00 850.00 506.83 506.89 507.25 507.59
9+00 50.00 900.00 506.64 506.81 507.17 507.51
BC-2 32.53 932.53 506.51 506.76 507.11 507.46
9+50 12.89 945.42 502.36 502.71 502.97 502.41
E.C.2 7.09 959.88 508.14 508.62 508.62 508.62

PROFILE

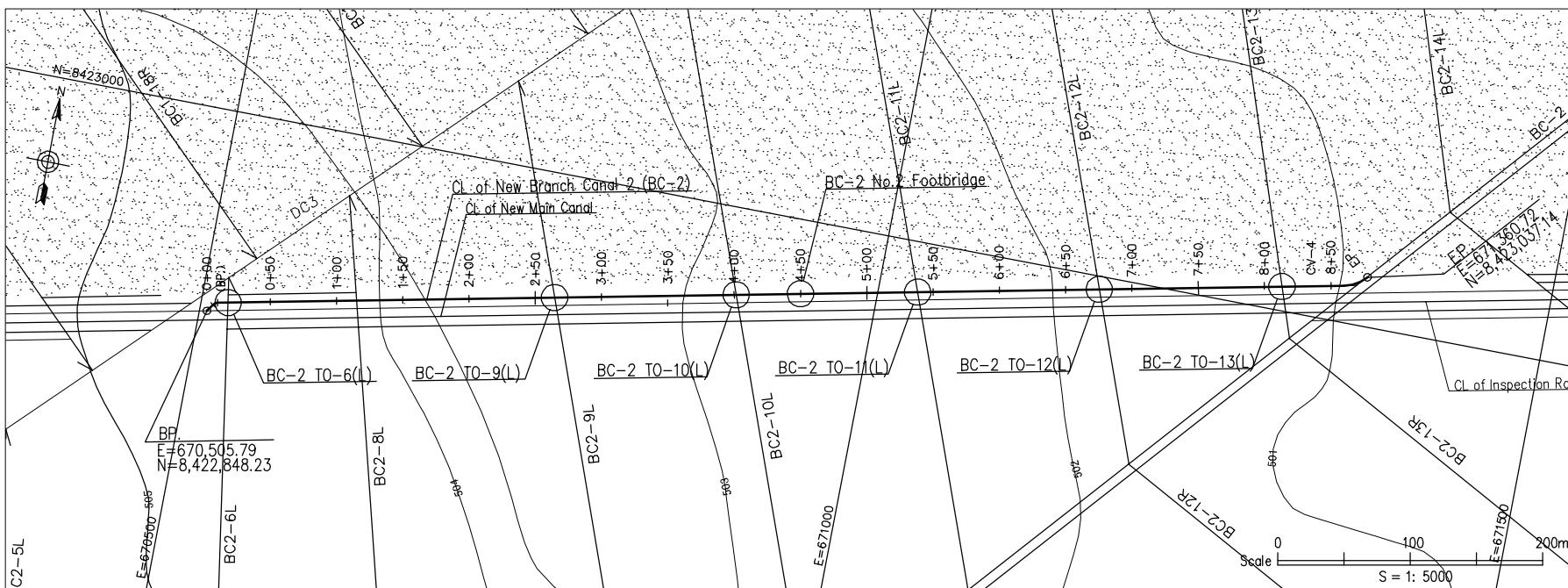
THE REPUBLIC OF MALAWI

THE PROJECT FOR REHABILITATION OF
BWANJE VALLEY IRRIGATION SYSTEM

TITLE OF DRAWING

PLAN AND PROFILE OF BC-1

DRAWING NO. ID-10
NIPPON KOEI CO., LTD.



PLAN

