

6-5 Basic Design Drawings

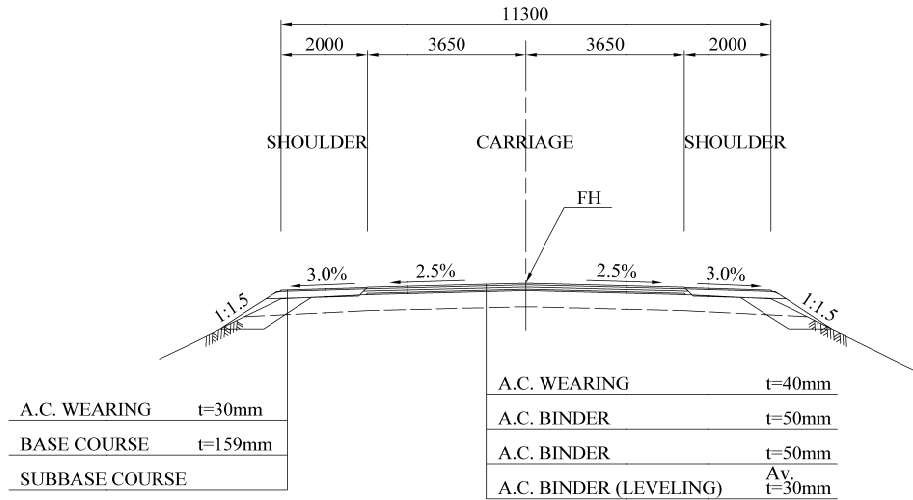
List of Basic Design Drawings

Item	Description	No. of Drawings
1	Standard Road Cross Section, Road Plan and Profile	14
2	Structural General View of Major Structures	22
3	Bridge General View and Major Town Section Details	9

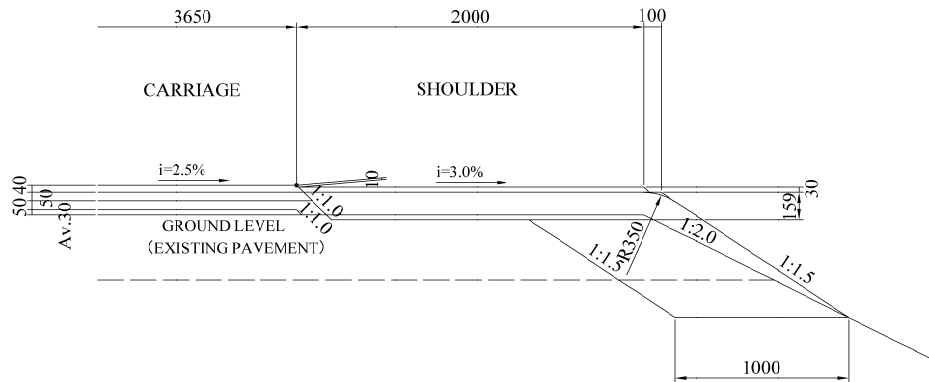
TYPICAL CROSS SECTION (1)

SCALE A3 1:100

GENERAL SECTION (TYPE-1)

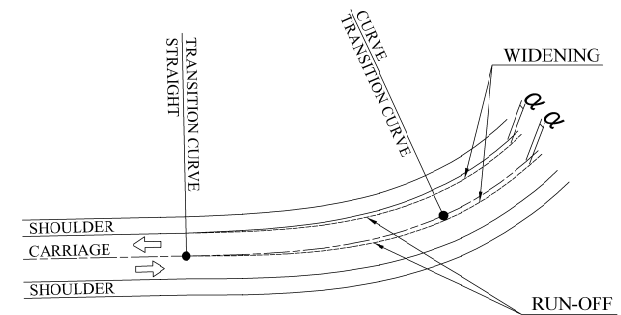


EDGE OF PAVEMENT SCALE A3 1:25



WIDENING OF ROAD LIST

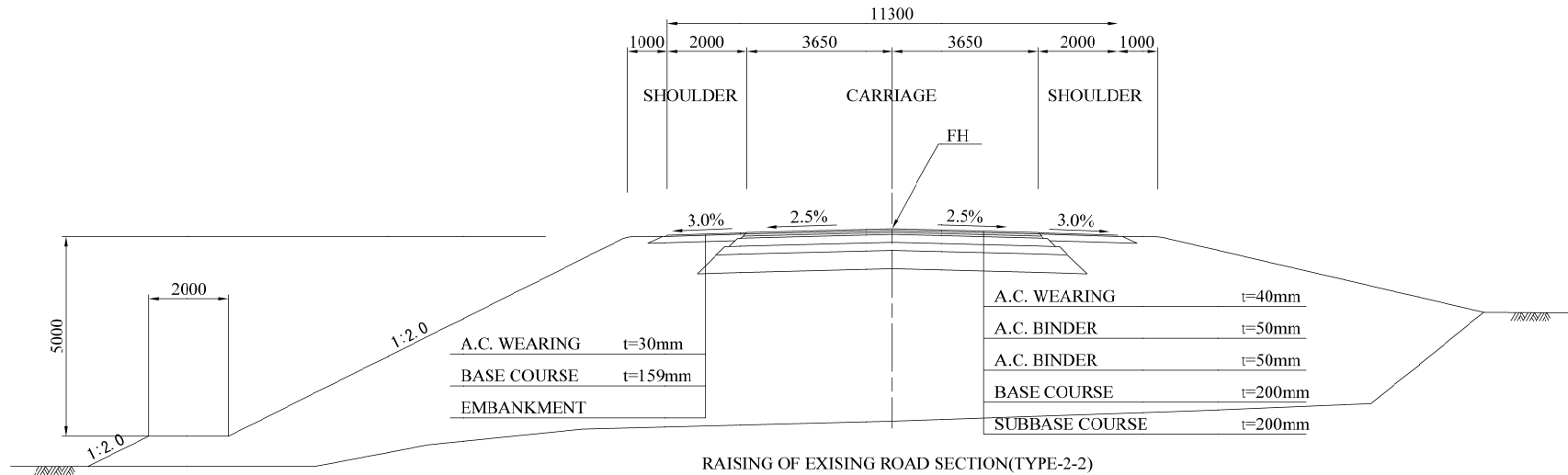
STATION	α (mm)	Remarks
0+ 76.852 ~ 0+146.978	0~250	
0+146.978 ~ 0+298.776	250	
0+298.776 ~ 0+368.902	250~0	
44+275.658 ~ 44+347.086	0~250	
44+347.086 ~ 44+348.740	250	
44+348.740 ~ 44+420.169	250~0	
44+426.592 ~ 44+462.592	0~250	
44+462.592 ~ 44+558.650	250	
44+558.650 ~ 44+594.650	250~0	
45+333.737 ~ 45+400.404	0~250	
45+400.404 ~ 45+410.337	250	
45+410.337 ~ 45+477.004	250~0	
46+289.192 ~ 46+371.478	0~250	
46+371.478 ~ 46+517.121	250	
46+517.121 ~ 46+599.407	250~0	
46+635.098 ~ 46+747.598	0~250	
46+747.598 ~ 46+916.208	250	
46+916.208 ~ 47+ 0.708	250~0	



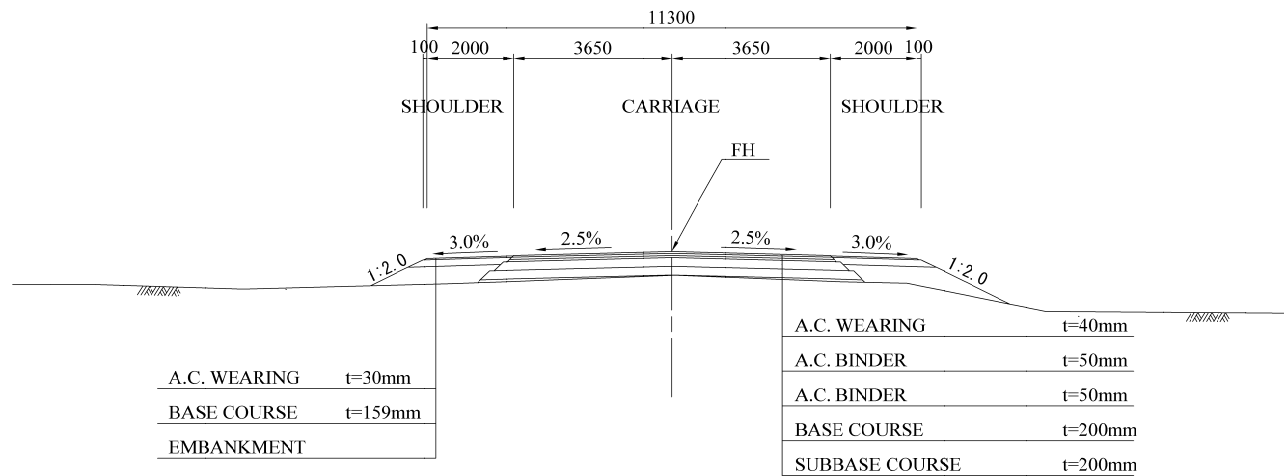
MINISTRY OF TRANSPORTATION THE REPUBLIC OF GHANA JAPAN INTERNATIONAL COOPERATION AGENCY	CONSULTANTS: CONSTRUCTION PROJECT CONSULTANTS, INC. (CPC)	PROJECT NAME: BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF NATIONAL TRUNK ROAD N8	DRAWING TITLE: TYPICAL CROSS SECTION (1)	DATE: PREPARED BY: CHECKED BY:	DRAWING No. : BD-1
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TYPICAL CROSS SECTION(2) SCALE A3 1:100

APPROACH FOR PRASO BRIDGE SECTION(TYPE-2-1)



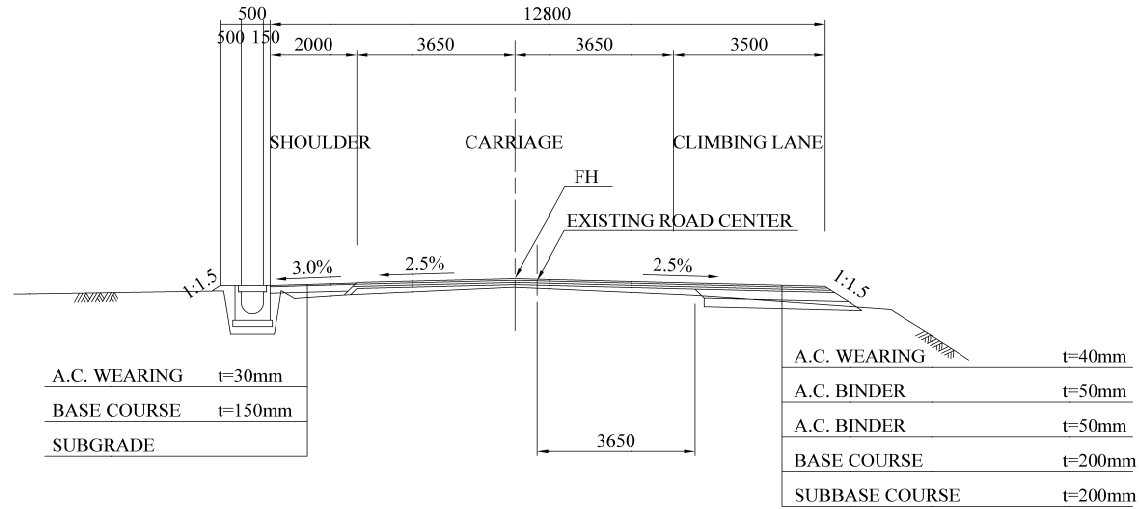
RAISING OF EXISTING ROAD SECTION(TYPE-2-2)



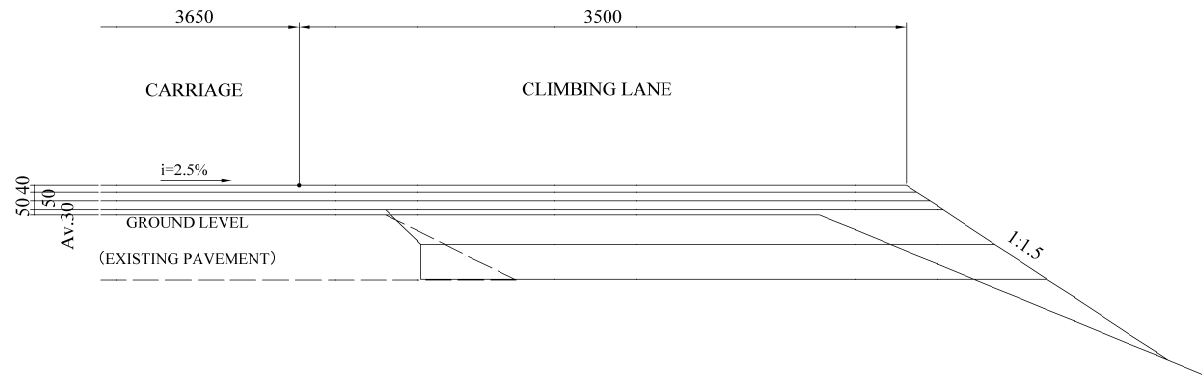
MINISTRY OF TRANSPORTATION THE REPUBLIC OF GHANA JAPAN INTERNATIONAL COOPERATION AGENCY	CONSULTANTS: CONSTRUCTION PROJECT CONSULTANTS, INC. (CPC)	PROJECT NAME: BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF NATIONAL TRUNK ROAD N8	DRAWING TITLE: TYPICAL CROSS SECTION (2)	DATE: PREPARED BY: CHECKED BY:	DRAWING No. : BD-2
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TYPICAL CROSS SECTION (3) SCALE A3 1:100

MOUNTAIN SECTION (TYPE-3)



EDGE OF PAVEMENT SCALE A3 1:25

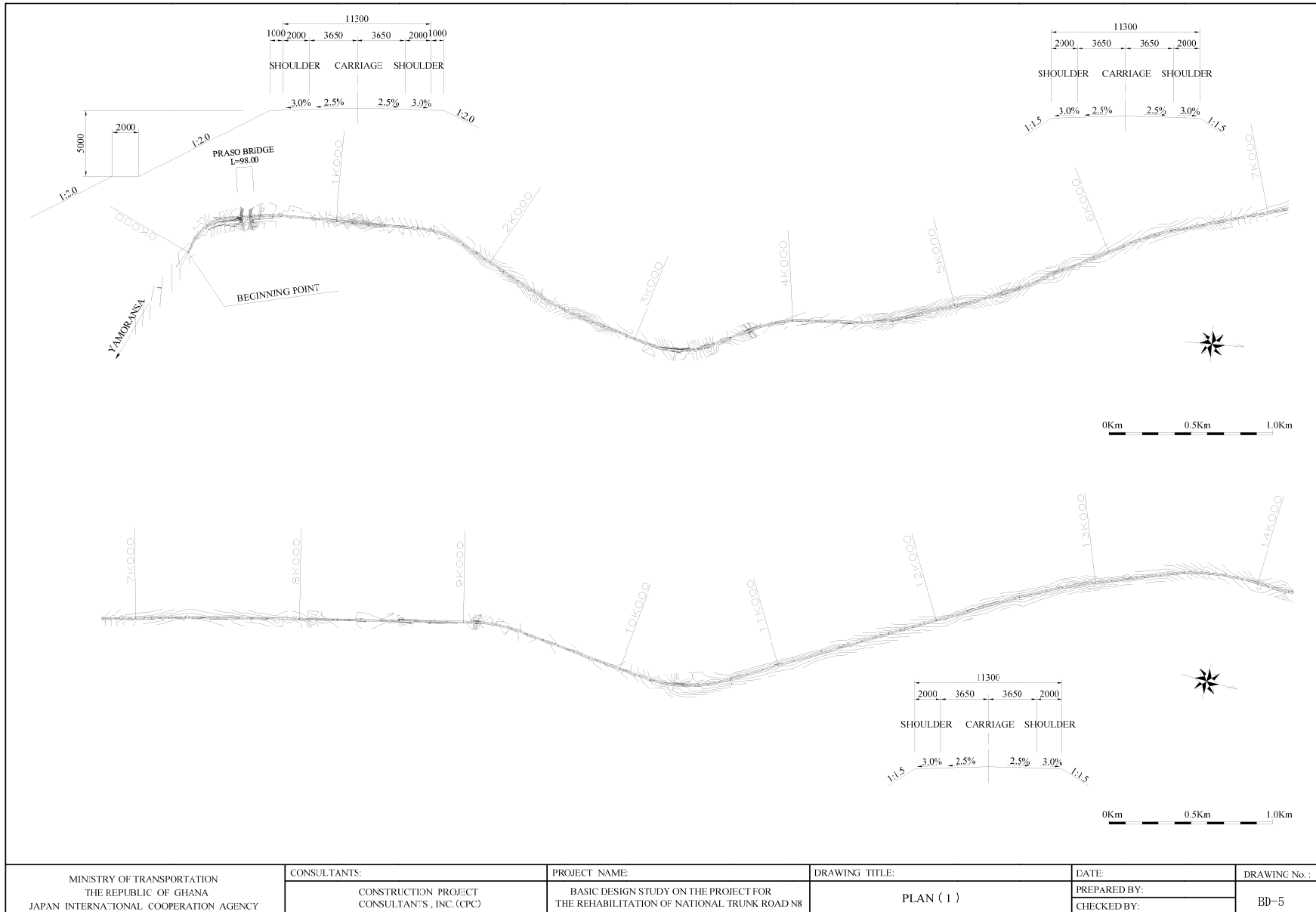


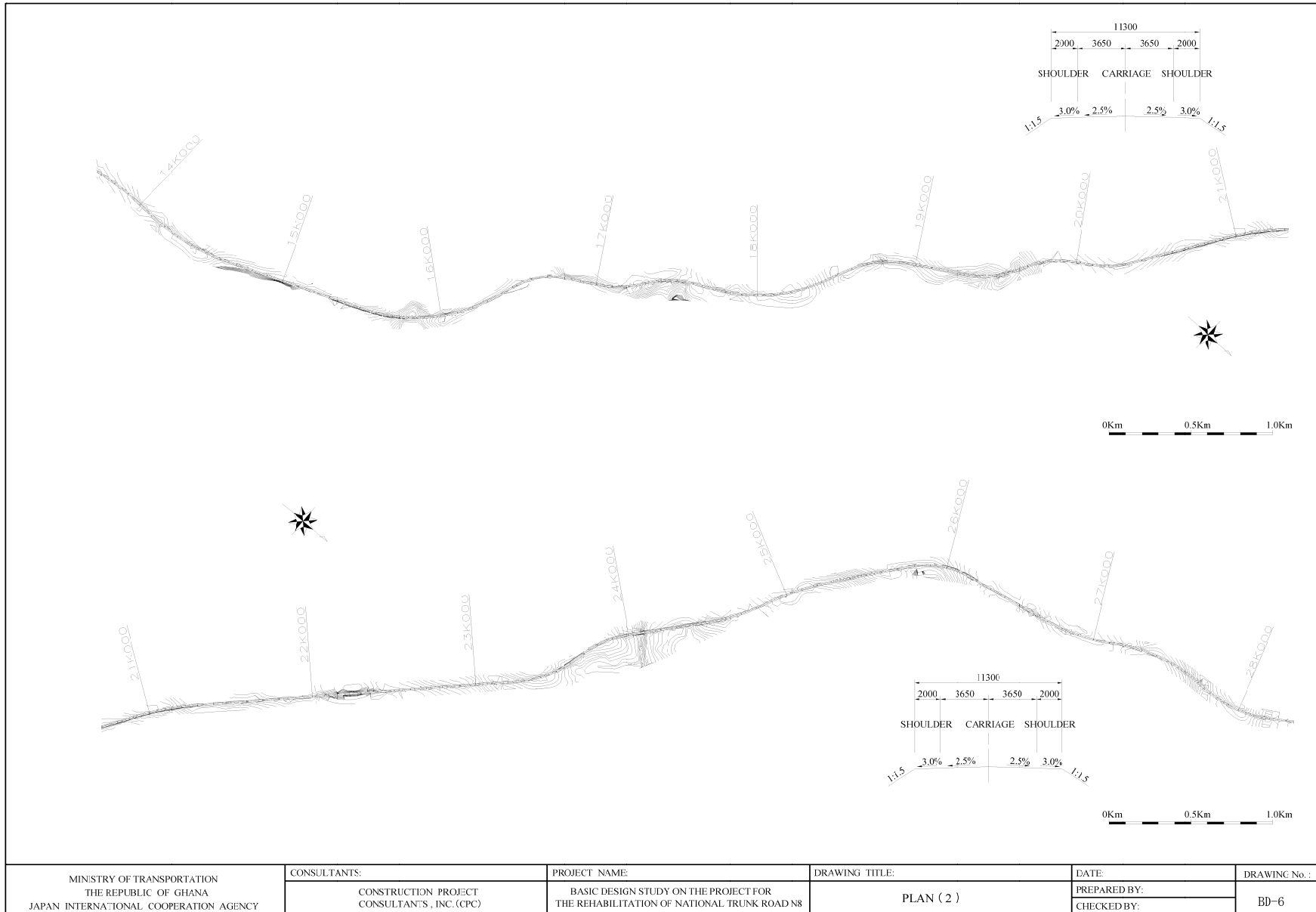
MINISTRY OF TRANSPORTATION THE REPUBLIC OF GHANA JAPAN INTERNATIONAL COOPERATION AGENCY	CONSULTANTS: CONSTRUCTION PROJECT CONSULTANTS, INC. (CPC)	PROJECT NAME: BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF NATIONAL TRUNK ROAD N8	DRAWING TITLE: TYPICAL CROSS SECTION (3)	DATE: PREPARED BY: CHECKED BY:	DRAWING No. : BD-3
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PAVEMENT STRUCTURE

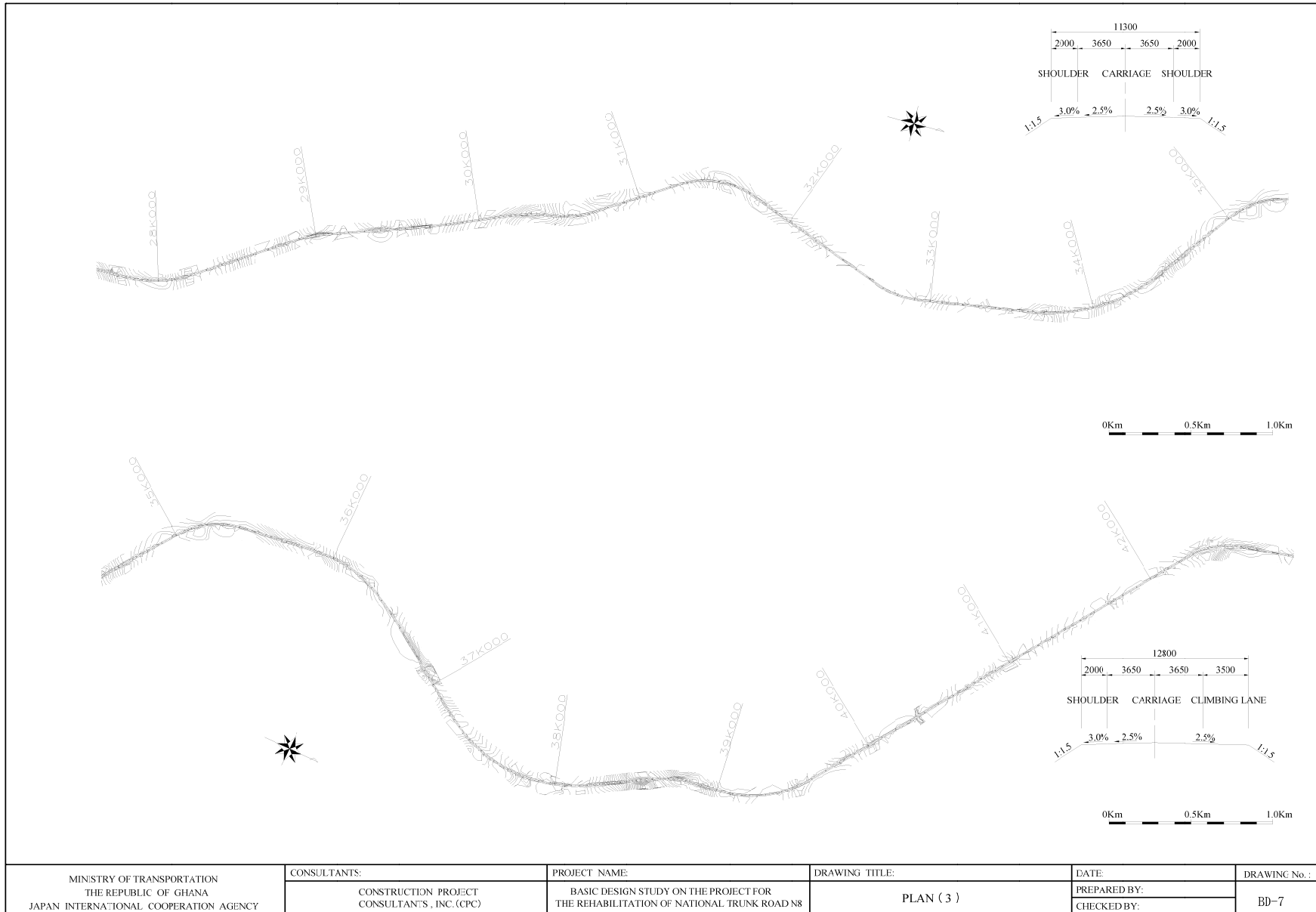
09 - V

Type	Section		Pavement Structure	Planned Pavement Structure Type																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	Total Thickness	Overlay Section		TYPE-1 (1/2)			TYPE-1 (3/2)			TYPE-2			TYPE-3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Type-1	t=140mm		Wearing Course AC t=40mm Binder Course (2nd layer) AC t=50mm Binder Course (1st layer) AC t=50mm Existing Pavement AC t=50mm	<table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th>Station</th><th>Distance (m)</th><th>Ratio of Road (Left/Right)</th><th>Actual Distance (m)</th><th>Station</th><th>Distance (m)</th><th>Ratio of Road (Left/Right)</th><th>Actual Distance (m)</th><th>Station</th><th>Distance (m)</th><th>Ratio of Road (Left/Right)</th><th>Actual Distance (m)</th><th>Station</th><th>Distance (m)</th><th>Ratio of Road (Left/Right)</th><th>Actual Distance (m)</th></tr> </thead> <tbody> <tr><td>1 km+000</td><td>1 km+500</td><td>400/100%</td><td>400</td><td>31 km+100</td><td>31 km+500</td><td>200/100%</td><td>100</td><td>1 km+000</td><td>2 km+000</td><td>100/20%</td><td>600</td><td>31 km+500</td><td>31 km+700</td><td>200/100%</td><td>100</td></tr> <tr><td>1 km+500</td><td>2 km+000</td><td>300/90%</td><td>240</td><td>31 km+500</td><td>31 km+600</td><td>600/100%</td><td>600</td><td>2 km+000</td><td>2 km+500</td><td>200/20%</td><td>400</td><td>31 km+700</td><td>31 km+900</td><td>200/100%</td><td>100</td></tr> <tr><td>2 km+100</td><td>3 km+100</td><td>1,000/100%</td><td>1,000</td><td>31 km+600</td><td>31 km+650</td><td>100/100%</td><td>50</td><td>3 km+000</td><td>3 km+400</td><td>200/20%</td><td>200</td><td>31 km+900</td><td>31 km+950</td><td>100/100%</td><td>100</td></tr> <tr><td>3 km+100</td><td>3 km+500</td><td>200/90%</td><td>160</td><td>31 km+650</td><td>31 km+700</td><td>100/100%</td><td>100</td><td>3 km+400</td><td>3 km+500</td><td>200/20%</td><td>200</td><td>31 km+950</td><td>31 km+1000</td><td>100/100%</td><td>100</td></tr> <tr><td>3 km+500</td><td>3 km+600</td><td>100/100%</td><td>100</td><td>31 km+700</td><td>31 km+800</td><td>100/100%</td><td>100</td><td>3 km+500</td><td>3 km+600</td><td>100/20%</td><td>200</td><td>31 km+1000</td><td>31 km+1050</td><td>100/100%</td><td>100</td></tr> <tr><td>3 km+600</td><td>4 km+300</td><td>1,200/100%</td><td>1,200</td><td>31 km+800</td><td>31 km+900</td><td>100/100%</td><td>100</td><td>3 km+600</td><td>3 km+700</td><td>100/20%</td><td>200</td><td>31 km+1050</td><td>31 km+1100</td><td>100/100%</td><td>100</td></tr> <tr><td>4 km+300</td><td>5 km+000</td><td>200/100%</td><td>200</td><td>31 km+900</td><td>31 km+950</td><td>100/100%</td><td>100</td><td>3 km+700</td><td>3 km+800</td><td>100/20%</td><td>200</td><td>31 km+1100</td><td>31 km+1150</td><td>100/100%</td><td>100</td></tr> <tr><td>5 km+000</td><td>5 km+100</td><td>100/90%</td><td>80</td><td>31 km+950</td><td>31 km+1000</td><td>200/100%</td><td>200</td><td>3 km+800</td><td>3 km+900</td><td>100/20%</td><td>200</td><td>31 km+1150</td><td>31 km+1200</td><td>100/100%</td><td>100</td></tr> <tr><td>5 km+100</td><td>5 km+200</td><td>100/100%</td><td>100</td><td>31 km+1000</td><td>31 km+1100</td><td>100/100%</td><td>100</td><td>3 km+900</td><td>3 km+1000</td><td>100/20%</td><td>200</td><td>31 km+1200</td><td>31 km+1250</td><td>100/100%</td><td>100</td></tr> <tr><td>5 km+200</td><td>5 km+300</td><td>100/100%</td><td>100</td><td>31 km+1100</td><td>31 km+1200</td><td>200/100%</td><td>200</td><td>3 km+1000</td><td>3 km+1100</td><td>100/20%</td><td>200</td><td>31 km+1250</td><td>31 km+1300</td><td>100/100%</td><td>100</td></tr> <tr><td>5 km+300</td><td>5 km+400</td><td>100/90%</td><td>80</td><td>31 km+1200</td><td>31 km+1300</td><td>100/100%</td><td>100</td><td>3 km+1100</td><td>3 km+1200</td><td>100/20%</td><td>200</td><td>31 km+1300</td><td>31 km+1350</td><td>100/100%</td><td>100</td></tr> <tr><td>5 km+400</td><td>5 km+500</td><td>100/100%</td><td>100</td><td>31 km+1300</td><td>31 km+1400</td><td>100/100%</td><td>100</td><td>3 km+1200</td><td>3 km+1300</td><td>100/20%</td><td>200</td><td>31 km+1350</td><td>31 km+1400</td><td>100/100%</td><td>100</td></tr> <tr><td>5 km+500</td><td>5 km+600</td><td>100/90%</td><td>80</td><td>31 km+1400</td><td>31 km+1500</td><td>100/100%</td><td>100</td><td>3 km+1300</td><td>3 km+1400</td><td>100/20%</td><td>200</td><td>31 km+1400</td><td>31 km+1450</td><td>100/100%</td><td>100</td></tr> <tr><td>5 km+600</td><td>6 km+300</td><td>1,000/100%</td><td>1,000</td><td>31 km+1500</td><td>31 km+1600</td><td>100/100%</td><td>100</td><td>3 km+1400</td><td>3 km+1500</td><td>100/20%</td><td>200</td><td>31 km+1450</td><td>31 km+1500</td><td>100/100%</td><td>100</td></tr> <tr><td>6 km+300</td><td>7 km+000</td><td>1,100/100%</td><td>1,100</td><td>31 km+1600</td><td>31 km+1700</td><td>100/100%</td><td>100</td><td>3 km+1500</td><td>3 km+1600</td><td>100/20%</td><td>200</td><td>31 km+1500</td><td>31 km+1550</td><td>100/100%</td><td>100</td></tr> <tr><td>7 km+000</td><td>7 km+100</td><td>200/100%</td><td>200</td><td>31 km+1700</td><td>31 km+1800</td><td>100/100%</td><td>100</td><td>3 km+1600</td><td>3 km+1700</td><td>100/20%</td><td>200</td><td>31 km+1550</td><td>31 km+1600</td><td>100/100%</td><td>100</td></tr> <tr><td>7 km+100</td><td>8 km+300</td><td>1,100/100%</td><td>1,100</td><td>31 km+1800</td><td>31 km+1900</td><td>100/100%</td><td>100</td><td>3 km+1700</td><td>3 km+1800</td><td>100/20%</td><td>200</td><td>31 km+1600</td><td>31 km+1650</td><td>100/100%</td><td>100</td></tr> <tr><td>8 km+300</td><td>9 km+000</td><td>400/100%</td><td>400</td><td>31 km+1900</td><td>31 km+2000</td><td>100/100%</td><td>100</td><td>3 km+1800</td><td>3 km+1900</td><td>100/20%</td><td>200</td><td>31 km+1650</td><td>31 km+1700</td><td>100/100%</td><td>100</td></tr> <tr><td>9 km+000</td><td>9 km+100</td><td>300/100%</td><td>300</td><td>31 km+2000</td><td>31 km+2100</td><td>100/100%</td><td>100</td><td>3 km+1900</td><td>3 km+2000</td><td>100/20%</td><td>200</td><td>31 km+1700</td><td>31 km+1750</td><td>100/100%</td><td>100</td></tr> <tr><td>9 km+100</td><td>9 km+200</td><td>300/100%</td><td>300</td><td>31 km+2100</td><td>31 km+2200</td><td>100/100%</td><td>100</td><td>3 km+2000</td><td>3 km+2100</td><td>100/20%</td><td>200</td><td>31 km+1750</td><td>31 km+1800</td><td>100/100%</td><td>100</td></tr> <tr><td>9 km+200</td><td>9 km+300</td><td>300/100%</td><td>300</td><td>31 km+2200</td><td>31 km+2300</td><td>100/100%</td><td>100</td><td>3 km+2100</td><td>3 km+2200</td><td>100/20%</td><td>200</td><td>31 km+1800</td><td>31 km+1850</td><td>100/100%</td><td>100</td></tr> <tr><td>9 km+300</td><td>9 km+400</td><td>400/100%</td><td>400</td><td>31 km+2300</td><td>31 km+2400</td><td>100/100%</td><td>100</td><td>3 km+2200</td><td>3 km+2300</td><td>100/20%</td><td>200</td><td>31 km+1850</td><td>31 km+1900</td><td>100/100%</td><td>100</td></tr> <tr><td>9 km+400</td><td>9 km+500</td><td>400/100%</td><td>400</td><td>31 km+2400</td><td>31 km+2500</td><td>100/100%</td><td>100</td><td>3 km+2300</td><td>3 km+2400</td><td>100/20%</td><td>200</td><td>31 km+1900</td><td>31 km+1950</td><td>100/100%</td><td>100</td></tr> <tr><td>9 km+500</td><td>9 km+600</td><td>400/100%</td><td>400</td><td>31 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km+2150</td><td>100/100%</td><td>100</td></tr> <tr><td>14 km+500</td><td>14 km+700</td><td>100/100%</td><td>100</td><td>31 km+2900</td><td>31 km+3000</td><td>100/100%</td><td>100</td><td>3 km+2800</td><td>3 km+2900</td><td>100/20%</td><td>200</td><td>31 km+2150</td><td>31 km+2200</td><td>100/100%</td><td>100</td></tr> <tr><td>14 km+700</td><td>15 km+200</td><td>500/100%</td><td>500</td><td>31 km+3000</td><td>31 km+3100</td><td>100/100%</td><td>100</td><td>3 km+2900</td><td>3 km+3000</td><td>100/20%</td><td>200</td><td>31 km+2200</td><td>31 km+2250</td><td>100/100%</td><td>100</td></tr> <tr><td>15 km+200</td><td>15 km+300</td><td>400/100%</td><td>400</td><td>31 km+3100</td><td>31 km+3200</td><td>100/100%</td><td>100</td><td>3 km+3000</td><td>3 km+3100</td><td>100/20%</td><td>200</td><td>31 km+2250</td><td>31 km+2300</td><td>100/100%</td><td>100</td></tr> <tr><td>15 km+300</td><td>15 km+400</td><td>400/100%</td><td>400</td><td>31 km+3200</td><td>31 km+3300</td><td>100/100%</td><td>100</td><td>3 km+3100</td><td>3 km+3200</td><td>100/20%</td><td>200</td><td>31 km+2300</td><td>31 km+2350</td><td>100/100%</td><td>100</td></tr> <tr><td>15 km+400</td><td>15 km+500</td><td>400/100%</td><td>400</td><td>31 km+3300</td><td>31 km+3400</td><td>100/100%</td><td>100</td><td>3 km+3200</td><td>3 km+3300</td><td>100/20%</td><td>200</td><td>31 km+2350</td><td>31 km+2400</td><td>100/100%</td><td>100</td></tr> <tr><td>15 km+500</td><td>15 km+600</td><td>400/100%</td><td>400</td><td>31 km+3400</td><td>31 km+3500</td><td>100/100%</td><td>100</td><td>3 km+3300</td><td>3 km+3400</td><td>100/20%</td><td>200</td><td>31 km+2400</td><td>31 km+2450</td><td>100/100%</td><td>100</td></tr> <tr><td>15 km+600</td><td>15 km+700</td><td>400/100%</td><td>400</td><td>31 km+3500</td><td>31 km+3600</td><td>100/100%</td><td>100</td><td>3 km+3400</td><td>3 km+3500</td><td>100/20%</td><td>200</td><td>31 km+2450</td><td>31 km+2500</td><td>100/100%</td><td>100</td></tr> <tr><td>15 km+700</td><td>15 km+800</td><td>400/100%</td><td>400</td><td>31 km+3600</td><td>31 km+3700</td><td>100/100%</td><td>100</td><td>3 km+3500</td><td>3 km+3600</td><td>100/20%</td><td>200</td><td>31 km+2500</td><td>31 km+2550</td><td>100/100%</td><td>100</td></tr> <tr><td>15 km+800</td><td>15 km+900</td><td>400/100%</td><td>400</td><td>31 km+3700</td><td>31 km+3800</td><td>100/100%</td><td>100</td><td>3 km+3600</td><td>3 km+3700</td><td>100/20%</td><td>200</td><td>31 km+2550</td><td>31 km+2600</td><td>100/100%</td><td>100</td></tr> <tr><td>15 km+900</td><td>15 km+1000</td><td>400/100%</td><td>400</td><td>31 km+3800</td><td>31 km+3900</td><td>100/100%</td><td>100</td><td>3 km+3700</td><td>3 km+3800</td><td>100/20%</td><td>200</td><td>31 km+2600</td><td>31 km+2650</td><td>100/100%</td><td>100</td></tr> <tr><td>15 km+1000</td><td>15 km+1100</td><td>400/100%</td><td>400</td><td>31 km+3900</td><td>31 km+4000</td><td>100/100%</td><td>100</td><td>3 km+3800</td><td>3 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km+600	600/100%	600	2 km+000	2 km+500	200/20%	400	31 km+700	31 km+900	200/100%	100	2 km+100	3 km+100	1,000/100%	1,000	31 km+600	31 km+650	100/100%	50	3 km+000	3 km+400	200/20%	200	31 km+900	31 km+950	100/100%	100	3 km+100	3 km+500	200/90%	160	31 km+650	31 km+700	100/100%	100	3 km+400	3 km+500	200/20%	200	31 km+950	31 km+1000	100/100%	100	3 km+500	3 km+600	100/100%	100	31 km+700	31 km+800	100/100%	100	3 km+500	3 km+600	100/20%	200	31 km+1000	31 km+1050	100/100%	100	3 km+600	4 km+300	1,200/100%	1,200	31 km+800	31 km+900	100/100%	100	3 km+600	3 km+700	100/20%	200	31 km+1050	31 km+1100	100/100%	100	4 km+300	5 km+000	200/100%	200	31 km+900	31 km+950	100/100%	100	3 km+700	3 km+800	100/20%	200	31 km+1100	31 km+1150	100/100%	100	5 km+000	5 km+100	100/90%	80	31 km+950	31 km+1000	200/100%	200	3 km+800	3 km+900	100/20%	200	31 km+1150	31 km+1200	100/100%	100	5 km+100	5 km+200	100/100%	100	31 km+1000	31 km+1100	100/100%	100	3 km+900	3 km+1000	100/20%	200	31 km+1200	31 km+1250	100/100%	100	5 km+200	5 km+300	100/100%	100	31 km+1100	31 km+1200	200/100%	200	3 km+1000	3 km+1100	100/20%	200	31 km+1250	31 km+1300	100/100%	100	5 km+300	5 km+400	100/90%	80	31 km+1200	31 km+1300	100/100%	100	3 km+1100	3 km+1200	100/20%	200	31 km+1300	31 km+1350	100/100%	100	5 km+400	5 km+500	100/100%	100	31 km+1300	31 km+1400	100/100%	100	3 km+1200	3 km+1300	100/20%	200	31 km+1350	31 km+1400	100/100%	100	5 km+500	5 km+600	100/90%	80	31 km+1400	31 km+1500	100/100%	100	3 km+1300	3 km+1400	100/20%	200	31 km+1400	31 km+1450	100/100%	100	5 km+600	6 km+300	1,000/100%	1,000	31 km+1500	31 km+1600	100/100%	100	3 km+1400	3 km+1500	100/20%	200	31 km+1450	31 km+1500	100/100%	100	6 km+300	7 km+000	1,100/100%	1,100	31 km+1600	31 km+1700	100/100%	100	3 km+1500	3 km+1600	100/20%	200	31 km+1500	31 km+1550	100/100%	100	7 km+000	7 km+100	200/100%	200	31 km+1700	31 km+1800	100/100%	100	3 km+1600	3 km+1700	100/20%	200	31 km+1550	31 km+1600	100/100%	100	7 km+100	8 km+300	1,100/100%	1,100	31 km+1800	31 km+1900	100/100%	100	3 km+1700	3 km+1800	100/20%	200	31 km+1600	31 km+1650	100/100%	100	8 km+300	9 km+000	400/100%	400	31 km+1900	31 km+2000	100/100%	100	3 km+1800	3 km+1900	100/20%	200	31 km+1650	31 km+1700	100/100%	100	9 km+000	9 km+100	300/100%	300	31 km+2000	31 km+2100	100/100%	100	3 km+1900	3 km+2000	100/20%	200	31 km+1700	31 km+1750	100/100%	100	9 km+100	9 km+200	300/100%	300	31 km+2100	31 km+2200	100/100%	100	3 km+2000	3 km+2100	100/20%	200	31 km+1750	31 km+1800	100/100%	100	9 km+200	9 km+300	300/100%	300	31 km+2200	31 km+2300	100/100%	100	3 km+2100	3 km+2200	100/20%	200	31 km+1800	31 km+1850	100/100%	100	9 km+300	9 km+400	400/100%	400	31 km+2300	31 km+2400	100/100%	100	3 km+2200	3 km+2300	100/20%	200	31 km+1850	31 km+1900	100/100%	100	9 km+400	9 km+500	400/100%	400	31 km+2400	31 km+2500	100/100%	100	3 km+2300	3 km+2400	100/20%	200	31 km+1900	31 km+1950	100/100%	100	9 km+500	9 km+600	400/100%	400	31 km+2500	31 km+2600	100/100%	100	3 km+2400	3 km+2500	100/20%	200	31 km+1950	31 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15 km+3400	15 km+3500	400/100%	400	31 km+6300	31 km+6400	100/100%	100	3 km+6200	3 km+6300	100/20%	200	31 km+3850	31 km+3900	100/100%	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
15 km+3500	15 km+3600	400/100%	400	31 km+6400	31 km+6500	100/100%	100	3 km+6300	3 km+6400	100/20%	200	31 km+3900	31 km+3950	100/100%	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
15 km+3600	15 km+3700	400/100%	400	31 km+6500	31 km+6600	100/100%	100	3 km+6400	3 km+6500	100/20%	200	31 km+3950	31 km+4000	100/100%	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

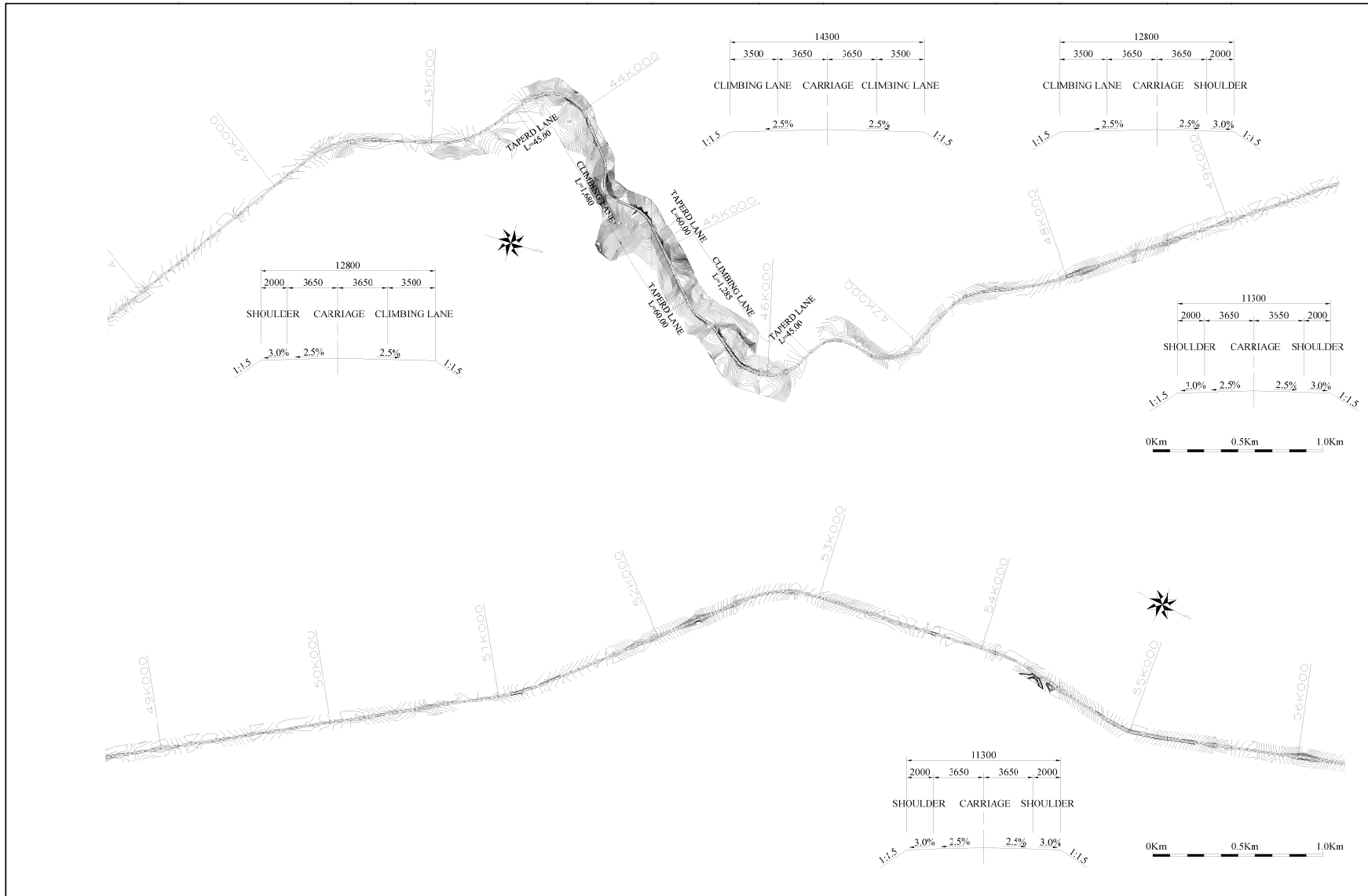




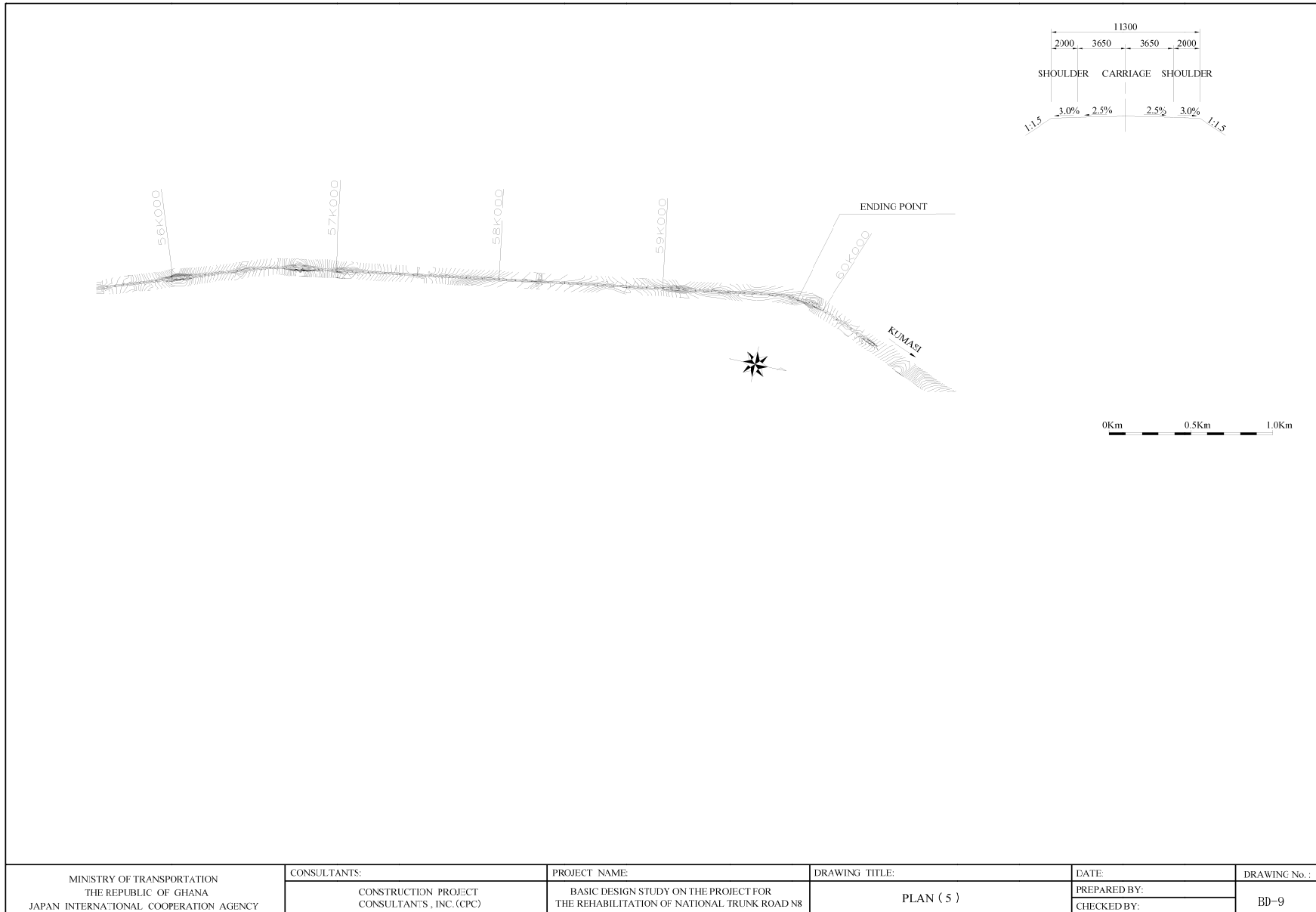
MINISTRY OF TRANSPORTATION THE REPUBLIC OF GHANA JAPAN INTERNATIONAL COOPERATION AGENCY	CONSULTANTS: CONSTRUCTION PROJECT CONSULTANTS, INC. (CPC)	PROJECT NAME: BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF NATIONAL TRUNK ROAD N8	DRAWING TITLE: PLAN (2)	DATE: PREPARED BY: CHECKED BY:	DRAWING No. : BD-6
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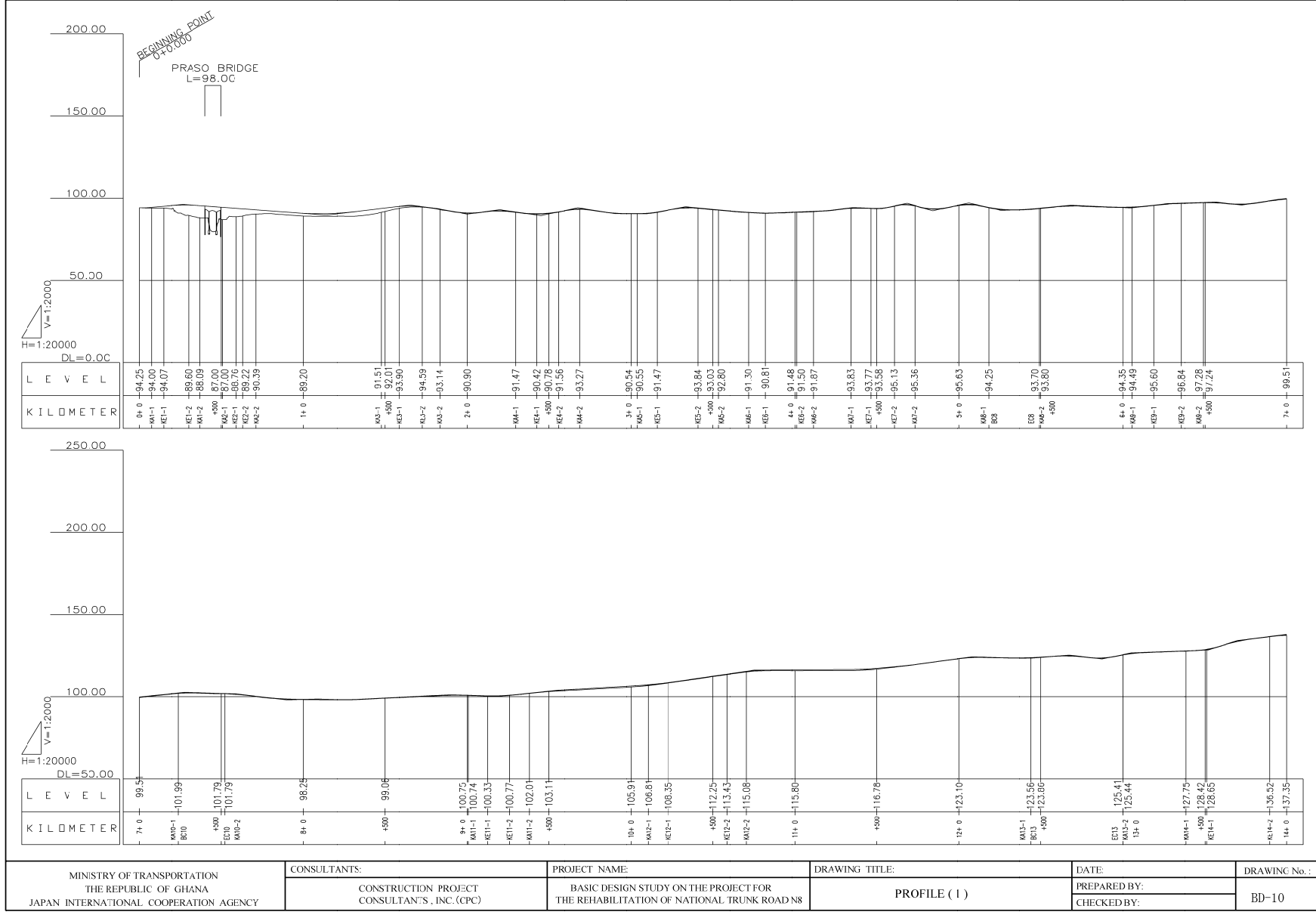
MINISTRY OF TRANSPORTATION THE REPUBLIC OF GHANA JAPAN INTERNATIONAL COOPERATION AGENCY	CONSULTANTS:	PROJECT NAME:	DRAWING TITLE:	DATE:	DRAWING No.:
	CONSTRUCTION PROJECT CONSULTANTS, INC. (CPC)	BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF NATIONAL TRUNK ROAD N8	PLAN (3)	PREPARED BY: CHECKED BY:	BD-7



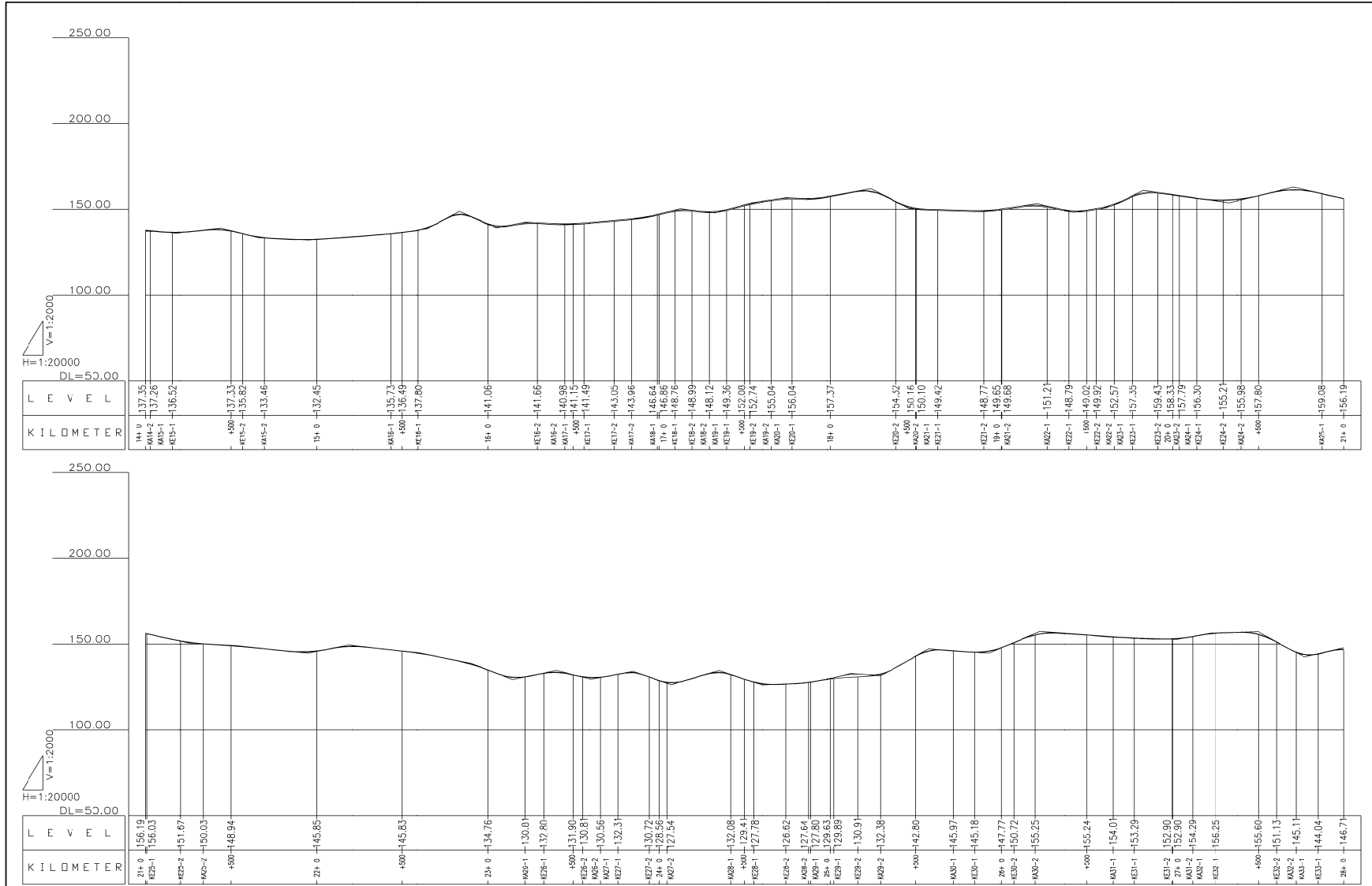
MINISTRY OF TRANSPORTATION THE REPUBLIC OF GHANA JAPAN INTERNATIONAL COOPERATION AGENCY	CONSULTANTS: CONSTRUCTION PROJECT CONSULTANTS, INC. (CPC)	PROJECT NAME: BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF NATIONAL TRUNK ROAD N8	DRAWING TITLE: PLAN (4)	DATE: PREPARED BY: CHECKED BY:	DRAWING No. : BD-8
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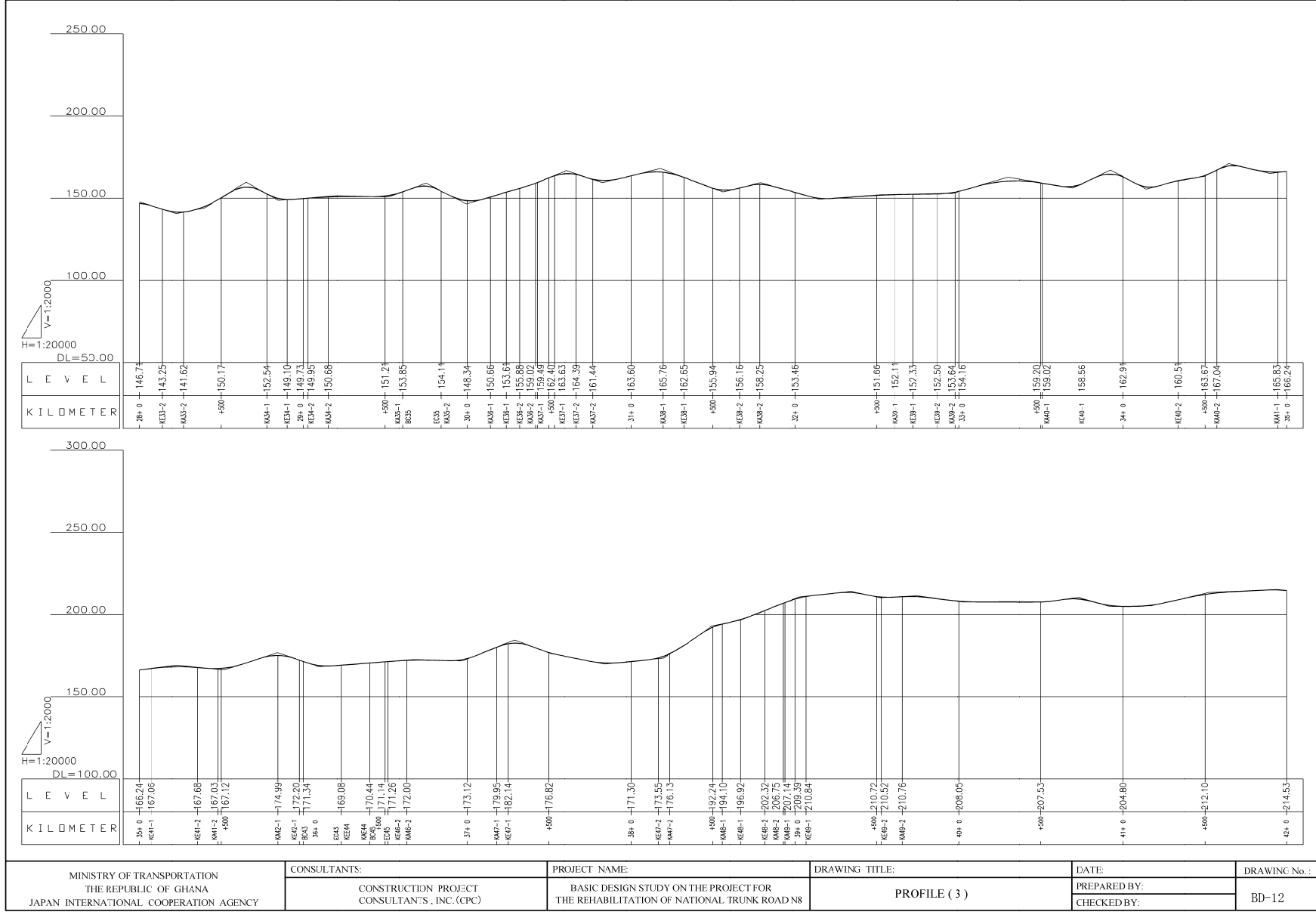
MINISTRY OF TRANSPORTATION THE REPUBLIC OF GHANA JAPAN INTERNATIONAL COOPERATION AGENCY	CONSULTANTS:	PROJECT NAME:	DRAWING TITLE:	DATE:	DRAWING No.:
	CONSTRUCTION PROJECT CONSULTANTS, INC. (CPC)	BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF NATIONAL TRUNK ROAD N8	PLAN (5)	PREPARED BY: CHECKED BY:	BD-9



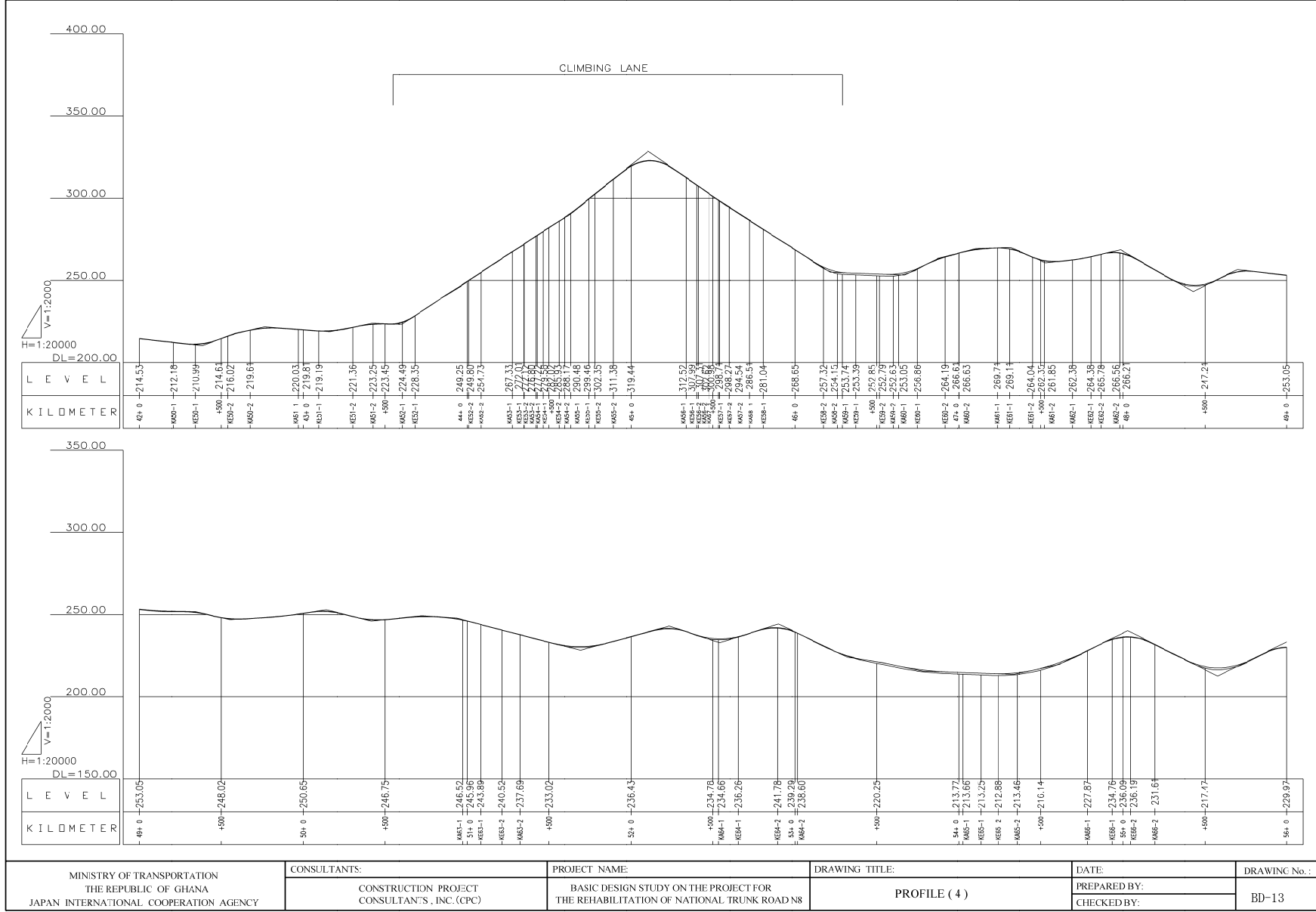
MINISTRY OF TRANSPORTATION THE REPUBLIC OF GHANA JAPAN INTERNATIONAL COOPERATION AGENCY	CONSULTANTS:	PROJECT NAME:	DRAWING TITLE:	DATE:	DRAWING No.:
	CONSTRUCTION PROJECT CONSULTANTS, INC. (CPC)	BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF NATIONAL TRUNK ROAD N8	PROFILE (1)	PREPARED BY: CHECKED BY:	BD-10



MINISTRY OF TRANSPORTATION THE REPUBLIC OF GHANA JAPAN INTERNATIONAL COOPERATION AGENCY	CONSULTANTS:	PROJECT NAME:	DRAWING TITLE:	DATE:	DRAWING No.:
	CONSTRUCTION PROJECT CONSULTANTS, INC. (CPC)	BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF NATIONAL TRUNK ROAD N8	PROFILE (2)	PREPARED BY: CHECKED BY:	BD-11

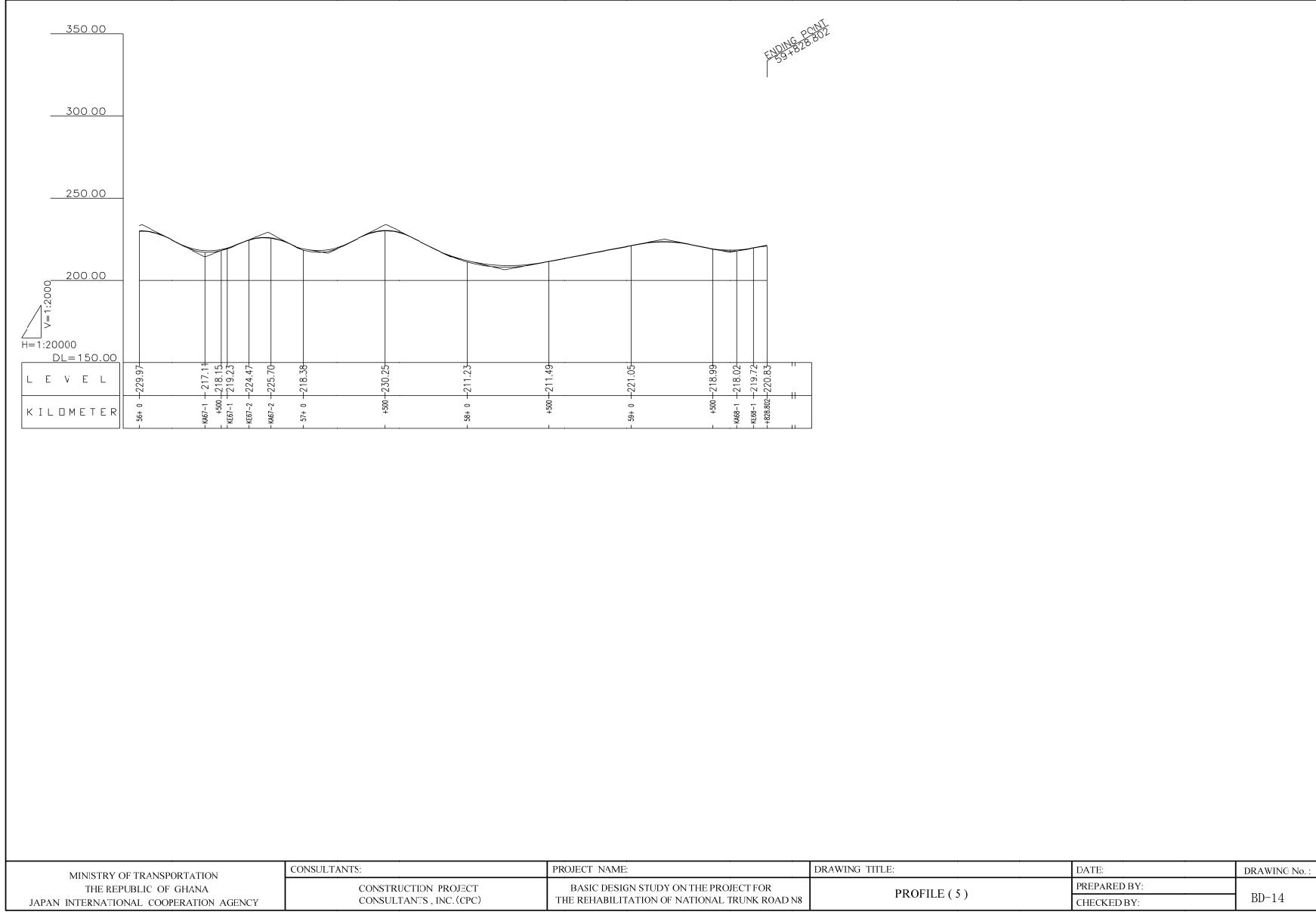


MINISTRY OF TRANSPORTATION THE REPUBLIC OF GHANA JAPAN INTERNATIONAL COOPERATION AGENCY	CONSULTANTS:	PROJECT NAME:	DRAWING TITLE:	DATE:	DRAWING No.:
	CONSTRUCTION PROJECT CONSULTANTS, INC. (CPC)	BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF NATIONAL TRUNK ROAD N8	PROFILE (3)	PREPARED BY: CHECKED BY:	BD-12



MINISTRY OF TRANSPORTATION THE REPUBLIC OF GHANA JAPAN INTERNATIONAL COOPERATION AGENCY	CONSULTANTS:	PROJECT NAME:	DRAWING TITLE:	DATE:	DRAWING No.:
	CONSTRUCTION PROJECT CONSULTANTS, INC. (CPC)	BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF NATIONAL TRUNK ROAD N8	PROFILE (4)	PREPARED BY: CHECKED BY:	

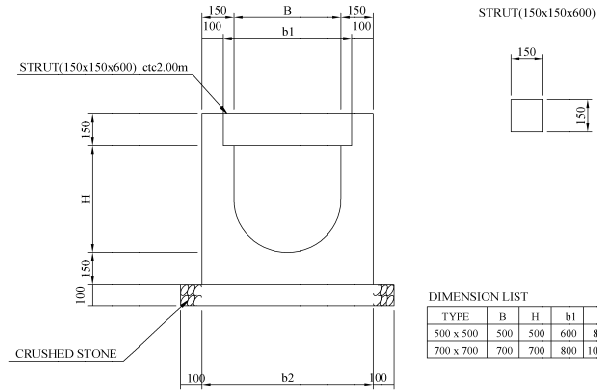
A - 70



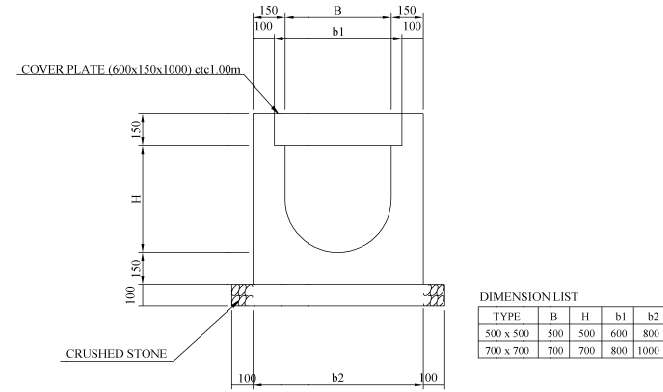
MINISTRY OF TRANSPORTATION THE REPUBLIC OF GHANA JAPAN INTERNATIONAL COOPERATION AGENCY	CONSULTANTS:	PROJECT NAME:	DRAWING TITLE:	DATE:	DRAWING No.:
	CONSTRUCTION PROJECT CONSULTANTS, INC. (CPC)	BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF NATIONAL TRUNK ROAD N8	PROFILE (5)	PREPARED BY: CHECKED BY:	BD-14

DRAINAGE STRUCTURE (1) SCALE AS SHOWN

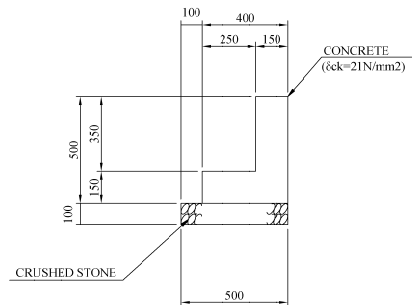
U-TYPE SIDE DITCH SCALE A3 1:20



U-TYPE SIDE DITCH SCALE A3 1:20



U-TYPE SIDE DITCH REPAIRING SCALE A3 1:20

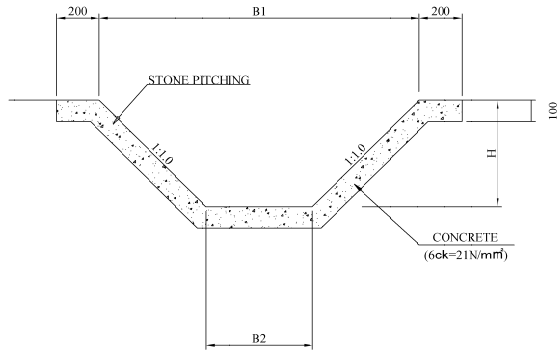


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MINISTRY OF TRANSPORTATION THE REPUBLIC OF GHANA JAPAN INTERNATIONAL COOPERATION AGENCY	CONSULTANTS:	PROJECT NAME:	DRAWING TITLE:	DATE:	DRAWING No.:
	CONSTRUCTION PROJECT CONSULTANTS, INC. (CPC)	BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF NATIONAL TRUNK ROAD N8	DRAINAGE STRUCTURE (1)	PREPARED BY: CHECKED BY:	BD-15

DRAINAGE STRUCTURE (2) SCALE AS SHOWN

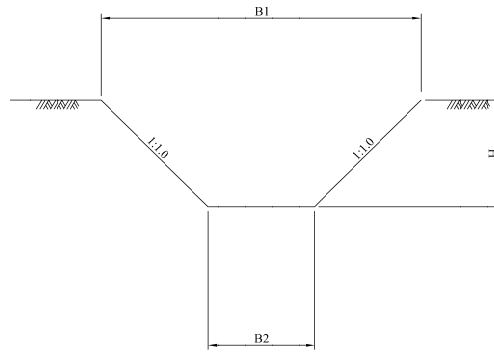
CONCRETE LYING DRAINAGE SCALE A3 1:20



DIMENSION LIST

TYPE	STANDARD	B1	B2	H
TYPE-1	1500 x 500	1500	500	500
TYPE-2	2400 x 800	2400	800	800
TYPE-3	3000 x 1000	3000	1000	1000

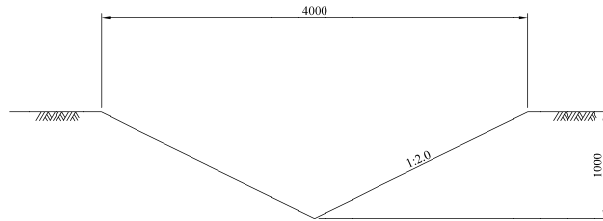
OPEN DRAINAGE SCALE A3 1:20
TYPE-1,-2,-3



DIMENSION LIST

TYPE	STANDARD	B1	B2	H
TYPE-1	1500 x 500	1500	500	500
TYPE-2	2400 x 800	2400	800	800
TYPE-3	3000 x 1000	3000	1000	1000

OPEN DRAINAGE SCALE A3 1:40
TYPE-4



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MINISTRY OF TRANSPORTATION THE REPUBLIC OF GHANA JAPAN INTERNATIONAL COOPERATION AGENCY	CONSULTANTS:	PROJECT NAME:	DRAWING TITLE:	DATE:	DRAWING No.:
	CONSTRUCTION PROJECT CONSULTANTS, INC. (CPC)	BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF NATIONAL TRUNK ROAD N8	DRAINAGE STRUCTURE (2)	PREPARED BY: CHECKED BY:	BD-16

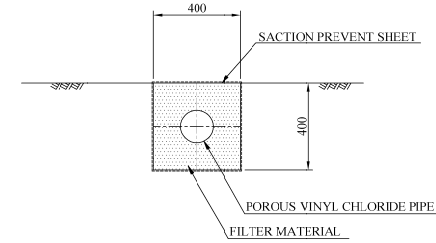
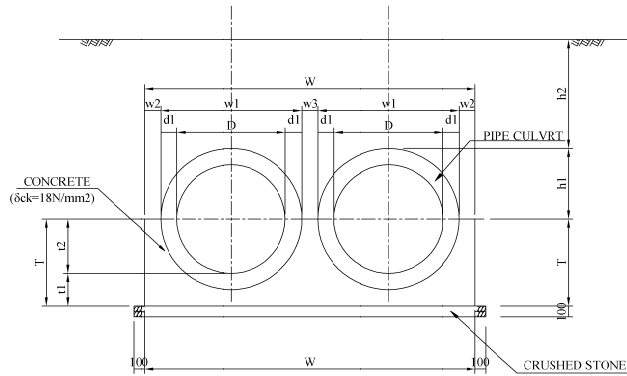
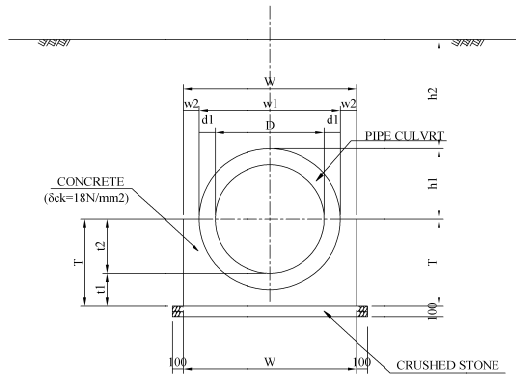
DRAINAGE STRUCTURE (4) SCALE AS SHOWN

PIPE CULVERT SCALE A3 1:40

CLOSED CONDUIT SCALE A3 1:20

TYPE-1-1,1-2,1-3

TYPE-2-1,2-2,2-3

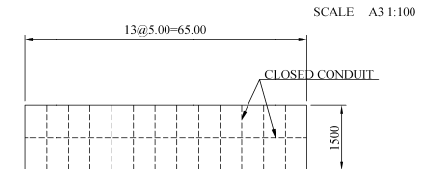


DIMENSION LIST

	D	d1	W	w1	w2	T	t1	t2	h1
TYPE-1-1	900	150	1500	1200	150	750	300	450	600
TYPE-1-2	1000	150	1600	1300	150	800	300	500	650
TYPE-1-3	1200	150	1800	1500	150	900	300	600	750
TYPE-1-4	1500	150	2100	1800	150	1050	300	750	900

DIMENSION LIST

	D	d1	W	w1	w2	w3	T	t1	t2	h1
TYPE-2-1	900	150	2850	1200	150	150	750	300	450	600
TYPE-2-2	1000	150	3050	1300	150	150	800	300	500	650
TYPE-2-3	1200	150	3450	1500	150	150	900	300	600	750
TYPE-2-3	1500	150	4050	1800	150	150	1050	300	750	900



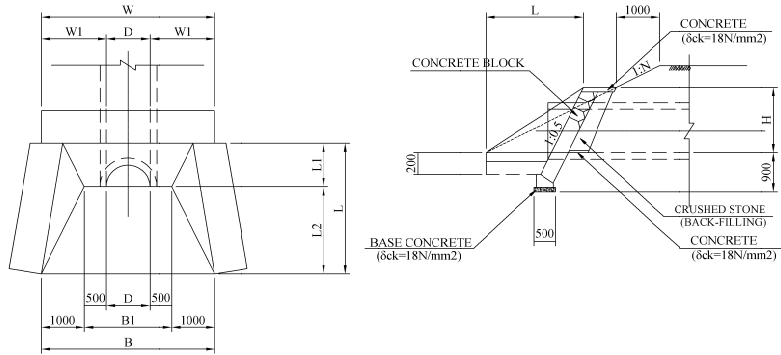
A - 73

MINISTRY OF TRANSPORTATION THE REPUBLIC OF GHANA JAPAN INTERNATIONAL COOPERATION AGENCY	CONSULTANTS: CONSTRUCTION PROJECT CONSULTANTS, INC. (CPC)	PROJECT NAME: BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF NATIONAL TRUNK ROAD N8	DRAWING TITLE: DRAINAGE STRUCTURE (4)	DATE: PREPARED BY: CHECKED BY:	DRAWING No. : BD-17
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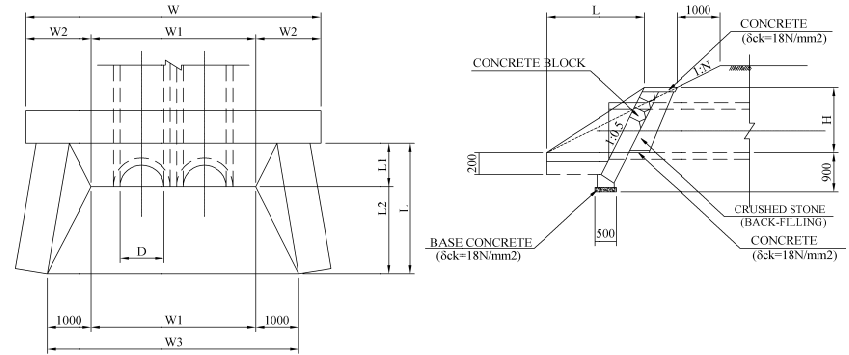
DRAINAGE STRUCTURE(5) SCALE A3 1:100

OUTLET-INLET

TYPE-A



TYPE-A



DIMENSION LIST

TYPE	D	H	L1	L2	B1	B	W1	W
TYPE-1-1	1000	1500	1000	2000	2000	4000	1500	4000
TYPE-1-2	1200	2000	1250	2500	2200	4200	1500	4200
TYPE-1-3	1500	2500	1500	3000	2500	4500	1500	4500

DIMENSION LIST

TYPE	D	H	L1	L2	W1	W2	W3	W
TYPE-2-1	1000	2000	1000	2000	3500	1500	5800	6800
TYPE-2-2	1200	2500	1250	2500	4200	1500	6200	7200
TYPE-2-3	1500	3000	1500	3000	4800	1500	6800	7800

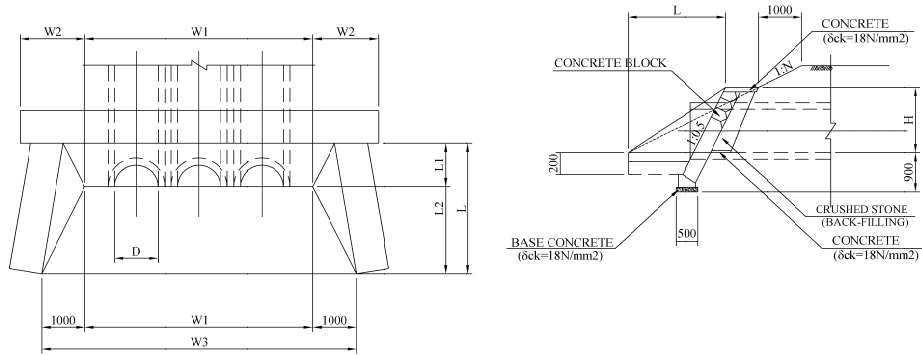
A - 74

MINISTRY OF TRANSPORTATION THE REPUBLIC OF GHANA JAPAN INTERNATIONAL COOPERATION AGENCY	CONSULTANTS:	PROJECT NAME:	DRAWING TITLE:	DATE:	DRAWING No.:
	CONSTRUCTION PROJECT CONSULTANTS, INC.(CPC)	BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF NATIONAL TRUNK ROAD N8	DRAINAGE STRUCTURE(5)	PREPARED BY: CHECKED BY:	BD-18

DRAINAGE STRUCTURE (6) SCALE A3 1:100

OUTLET-INLET

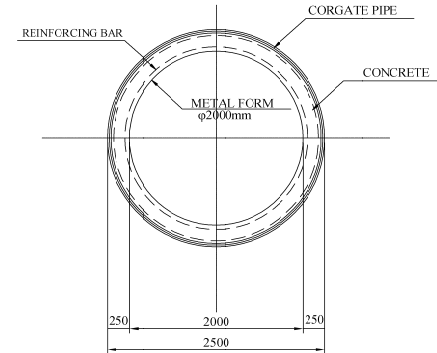
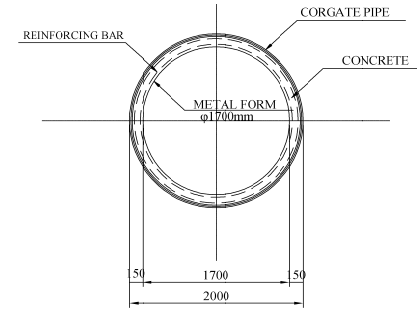
TYPE-A



DIMENSION LIST

TYPE	D	H	L1	L2	W1	W2	W3	w
TYPE-3-1	1000	2000	1000	2000	5250	1500	7250	6800
TYPE-3-2	1200	2500	1250	2500	5850	1500	7850	7200
TYPE-3-3	1500	3000	1500	3000	6750	1500	8750	7800

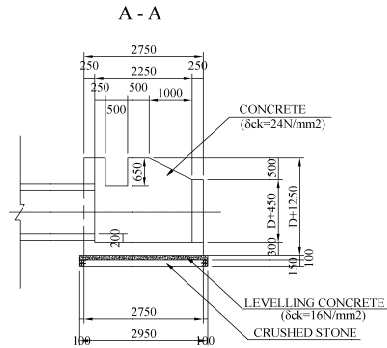
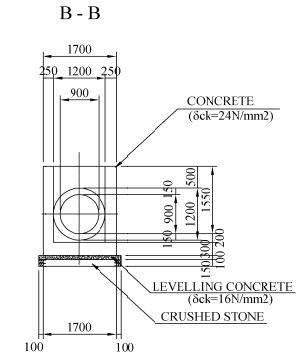
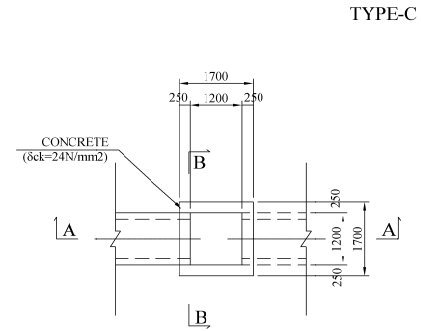
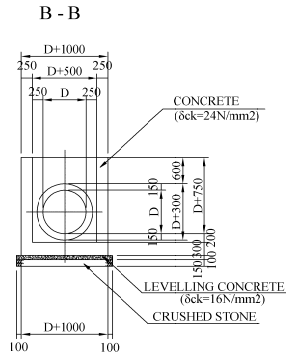
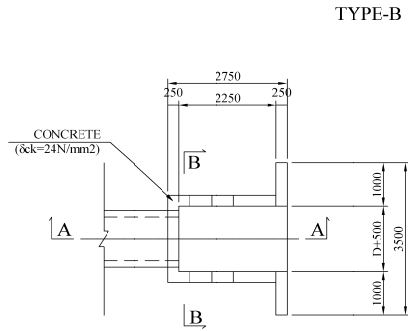
CORGATE PIPE REPAIRING SCALE A3 1:100



MINISTRY OF TRANSPORTATION THE REPUBLIC OF GHANA JAPAN INTERNATIONAL COOPERATION AGENCY	CONSULTANTS:	PROJECT NAME:	DRAWING TITLE:	DATE:	DRAWING No.:
	CONSTRUCTION PROJECT CONSULTANTS, INC. (CPC)	BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF NATIONAL TRUNK ROAD N8	DRAINAGE STRUCTURE (6)	PREPARED BY:	BD-19
				CHECKED BY:	

DRAINAGE STRUCTURE(7) SCALE A3 1:100

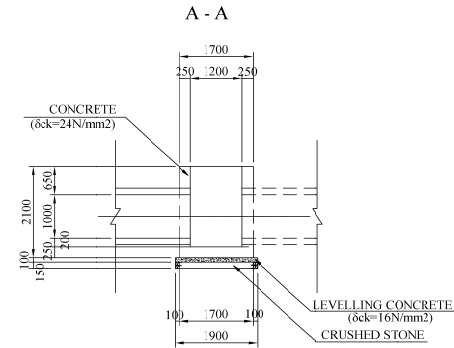
OUTLET-INLET



TYPE-B

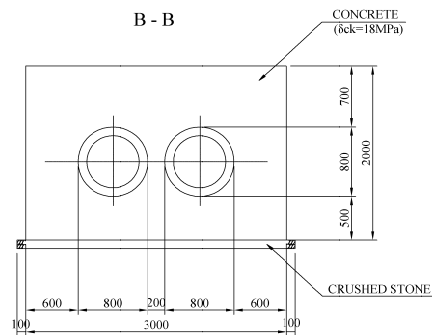
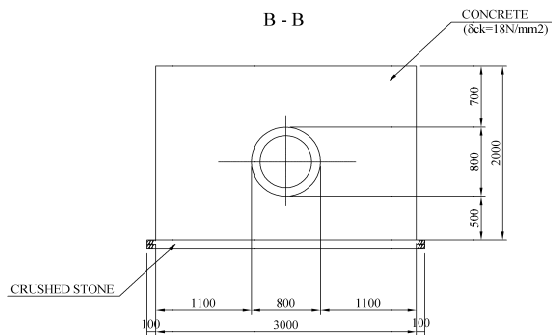
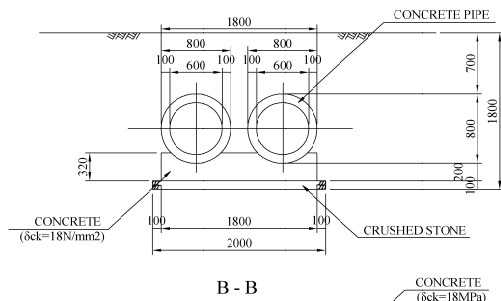
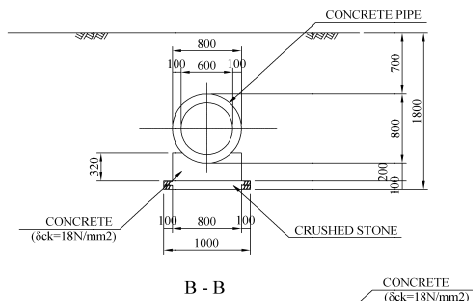
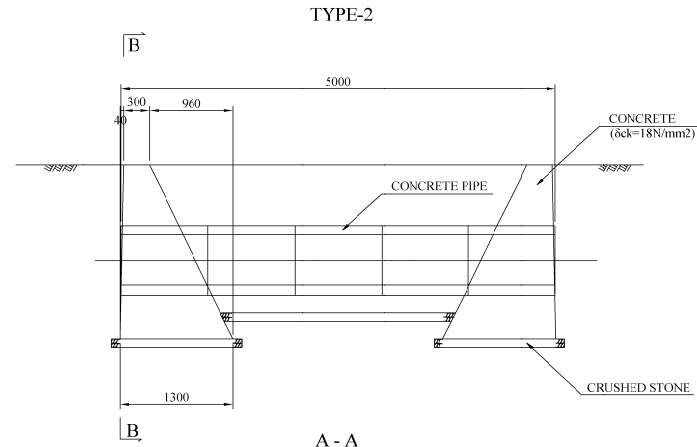
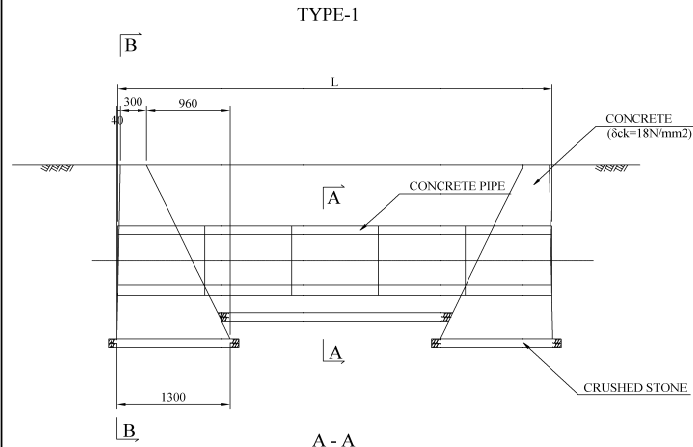
DIMENSION LIST

TYPE	D
TYPE-B-1	900
TYPE-B-2	1000
TYPE-B-3	1200
TYPE-B-4	1500



MINISTRY OF TRANSPORTATION THE REPUBLIC OF GHANA JAPAN INTERNATIONAL COOPERATION AGENCY	CONSULTANTS: CONSTRUCTION PROJECT CONSULTANTS, INC.(CPC)	PROJECT NAME: BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF NATIONAL TRUNK ROAD N8	DRAWING TITLE: DRAINAGE STRUCTURE(7)	DATE: PREPARED BY: CHECKED BY:	DRAWING No. : BD-20
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DRAINAGE STRUCTURE(10) SCALE A3 1:50



TYPE-1

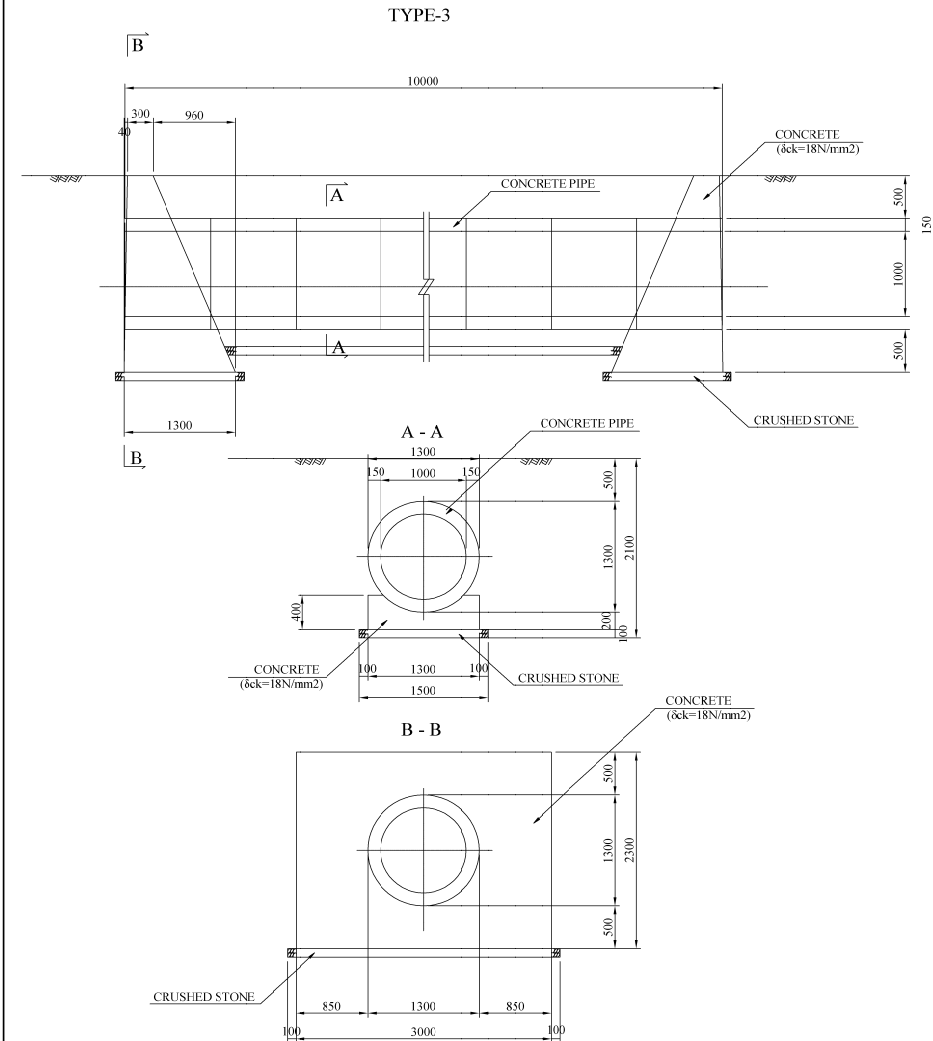
DIMENSION LIST

TYPE	L
TYPE-1-1	5000
TYPE-1-2	8000
TYPE-1-3	10000
TYPE-1-4	15000
TYPE-1-5	25000
TYPE-1-5	40000

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MINISTRY OF TRANSPORTATION THE REPUBLIC OF GHANA JAPAN INTERNATIONAL COOPERATION AGENCY	CONSULTANTS: CONSTRUCTION PROJECT CONSULTANTS, INC.(CPC)	PROJECT NAME: BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF NATIONAL TRUNK ROAD N8	DRAWING TITLE: DRAINAGE STRUCTURE(10)	DATE: PREPARED BY: CHECKED BY:	DRAWING No. : BD-21
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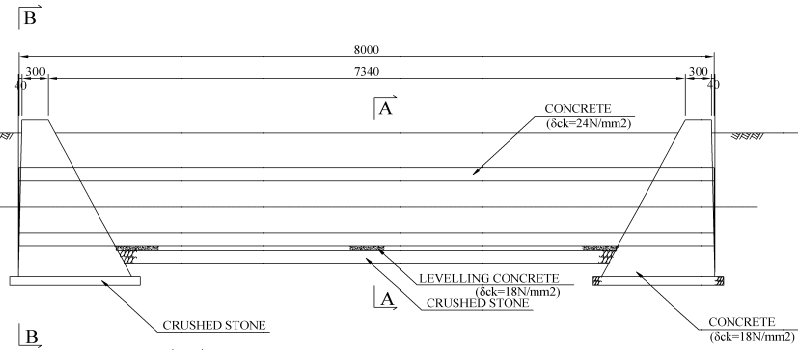
DRAINAGE STRUCTURE(11) SCALE A3 1:50



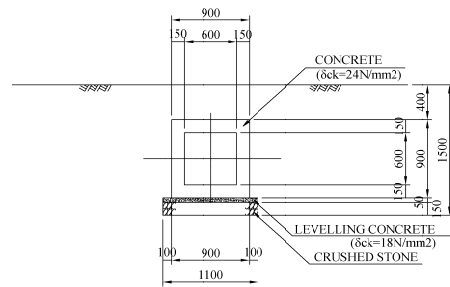
MINISTRY OF TRANSPORTATION THE REPUBLIC OF GHANA JAPAN INTERNATIONAL COOPERATION AGENCY	CONSULTANTS:	PROJECT NAME:	DRAWING TITLE:	DATE:	DRAWING No.:
	CONSTRUCTION PROJECT CONSULTANTS, INC. (CPC)	BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF NATIONAL TRUNK ROAD N8	DRAINAGE STRUCTURE(11)	PREPARED BY: CHECKED BY:	BD-22

DRAINAGE STRUCTURE(12) SCALE A3 1:50

TYPE-4

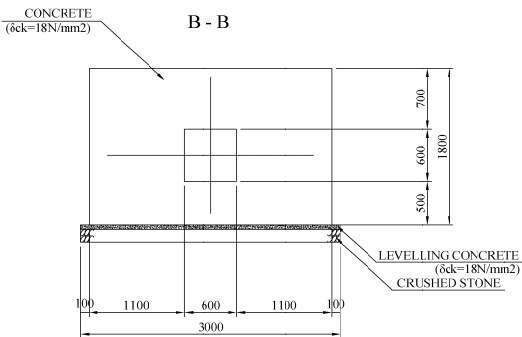


A - A

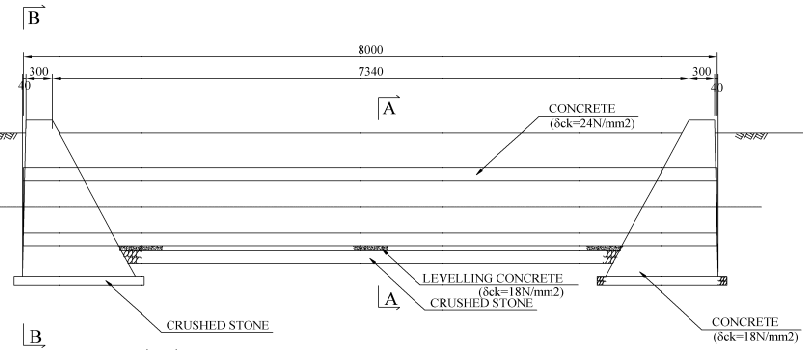


TYPE-4

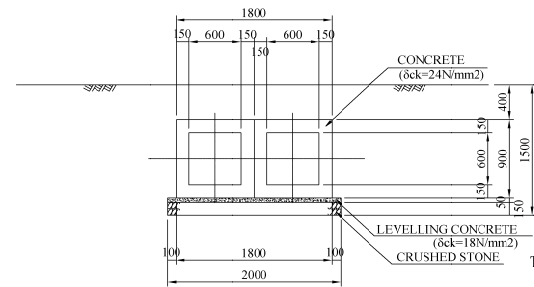
B - B



TYPE-5

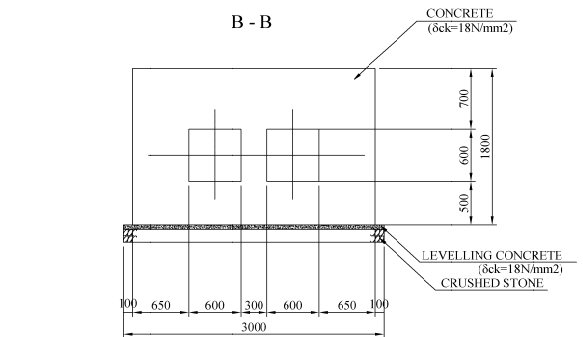


A - A



TYPE-5

B - B



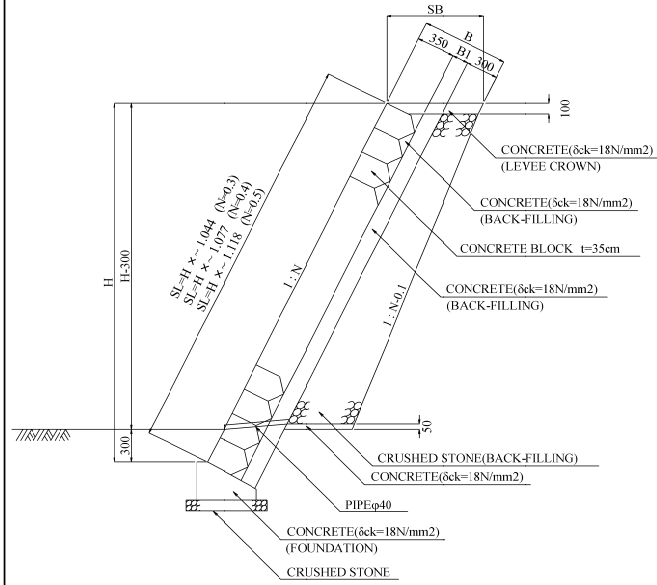
A - 79

MINISTRY OF TRANSPORTATION THE REPUBLIC OF GHANA JAPAN INTERNATIONAL COOPERATION AGENCY	CONSULTANTS: CONSTRUCTION PROJECT CONSULTANTS, INC. (CPC)	PROJECT NAME: BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF NATIONAL TRUNK ROAD N8	DRAWING TITLE: DRAINAGE STRUCTURE(12)	DATE: PREPARED BY: CHECKED BY:	DRAWING No. : BD-23
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RETAINING WALL(1) SCALE AS SHOWN

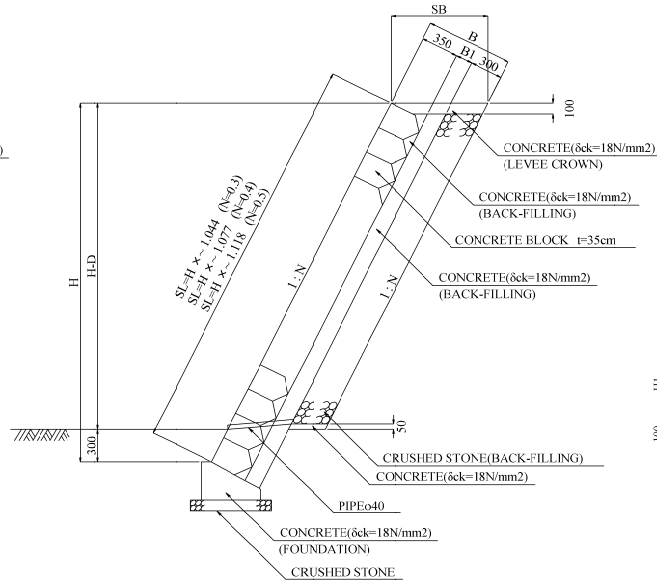
STONE MASONRY RETAINING WALL

EMBANKMENT TYPE
SCALE A3 1:40



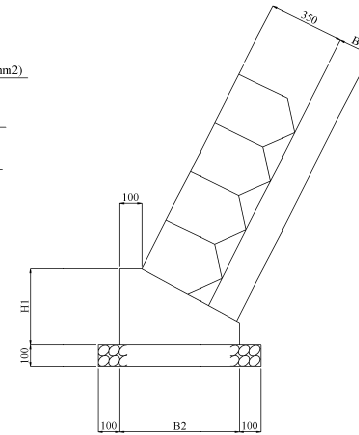
DIMENSION LIST					mm
H	B1	B	SB	REMARKS	
0~1.5	—	650	679	N=0.3	Foundation TypeA
1.5~3.0	—	650	700	N=0.4	Foundation TypeA
3.0~5.0	150	800	884	N=0.5	Foundation TypeC

CUT TYPE
SCALE A3 1:40



DIMENSION LIST					mm
H	B1	B	SB	REMARKS	
1.5~3.0	100	750	783	N=0.3	Foundation TypeB
3.0~5.0	150	800	862	N=0.4	Foundation TypeC

DETAIL OF FOUNDATION
SCALE A3 1:20



DIMENSION LIST					mm
TYPE	H1	B1	B2	REMARKS	
Type A	250	0	430		
Type B	300	100	510		
Type C	350	150	510		

MINISTRY OF TRANSPORTATION THE REPUBLIC OF GHANA JAPAN INTERNATIONAL COOPERATION AGENCY	CONSULTANTS: CONSTRUCTION PROJECT CONSULTANTS, INC.(CPC)	PROJECT NAME: BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF NATIONAL TRUNK ROAD N8	DRAWING TITLE: RETAINING WALL(1)	DATE: PREPARED BY: CHECKED BY:	DRAWING No. : BD-24
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