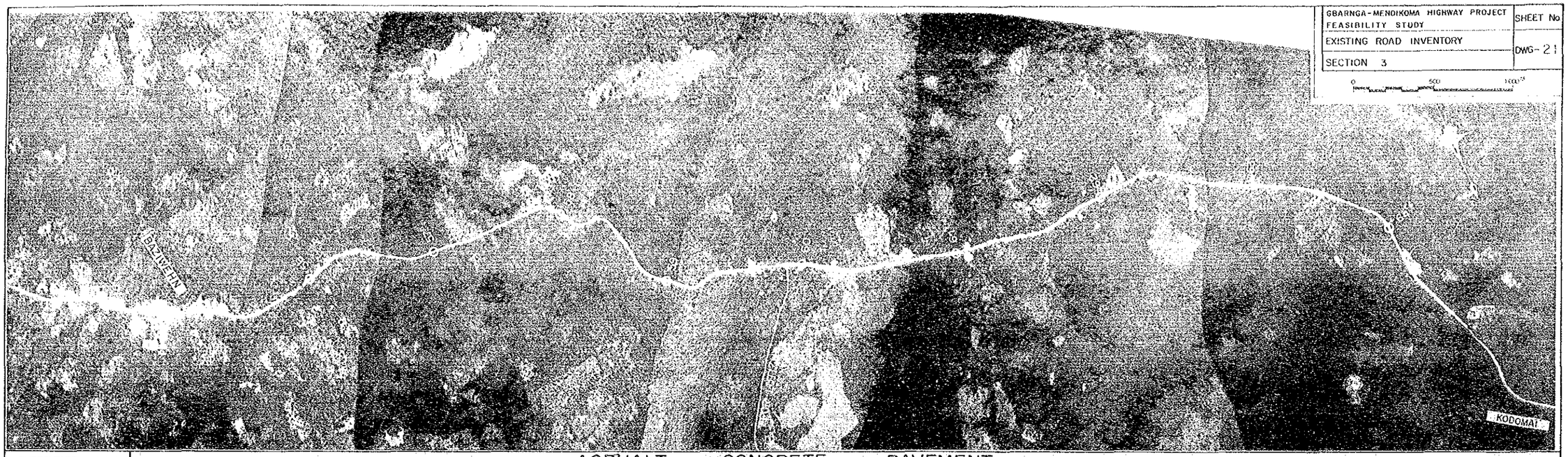
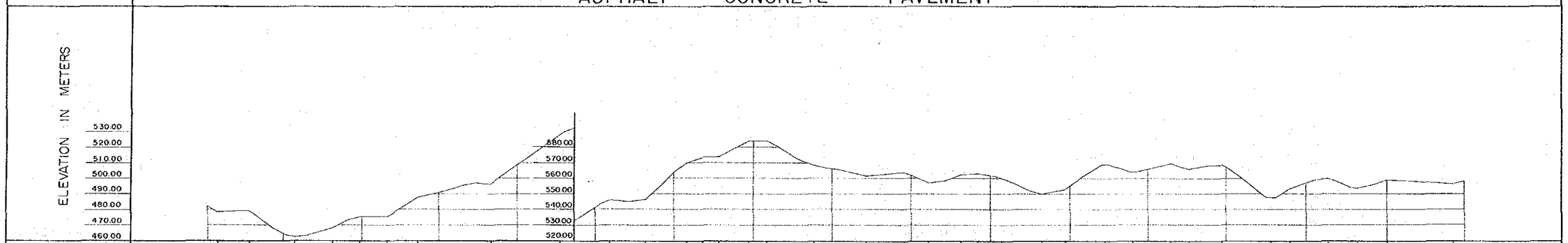
GBARNGA-MENDIKOMA HIGHWAY PROJECT FEASIBILITY STUDY	SHEET No
EXISTING ROAD INVENTORY	DWG-21
SECTION 3	



IMPROVEMENT PLAN	ASPHALT CONCRETE PAVEMENT



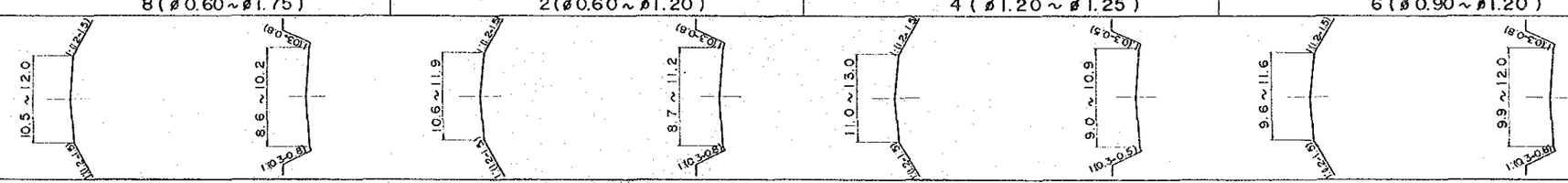
GRADIENT (%)	60	<1.0	7.0	3.0	5.0	<1.0	6.5	3.0	7.0	6.0	<1.0	10.0	3.5	<1.0	5.5	<1.0	6.0	2.0	1.0	4.0	3.5	<1.0	3.0	5.0	2.0	7.0	3.5	2.0	3.0	2.0	8.0	7.0	3.0	4.0	4.0	1.0	3.0

CURVE BAND (R (M) 100, 500, 1000, ∞, 1000, 500, 100)

R=250 R=250 R=1200 R=500 R=150 R=100 R=100 R=500 R=150 R=100 R=200 R=600 R=500 R=700 R=400 R=250 R=500 R=250 R=1000 R=600 R=250

ALIGNMENT	VERTICAL		FAIR		GOOD			FAIR				BAD	FAIR					GOOD					FAIR			GOOD					BAD				GOOD				
	HORIZONTAL	GOOD							FAIR	BAD	GOOD	FAIR	BAD	FAIR	GOOD																								
ROAD SURFACE	CONDITION	GOOD		BAD	FAIR			GOOD					BAD		FAIR				GOOD					FAIR			GOOD					BAD	FAIR		BAD		FAIR		
	TYPE	LATERITE PAVEMENT																																					
NUMBERS OF BRIDGE AND BOX					0								0										0												0				
NUMBERS OF PIPE					8 (ø0.60~ø1.75)								2 (ø0.60~ø1.20)										4 (ø1.20~ø1.25)												6 (ø0.90~ø1.20)				

CROSS SECTION (M)



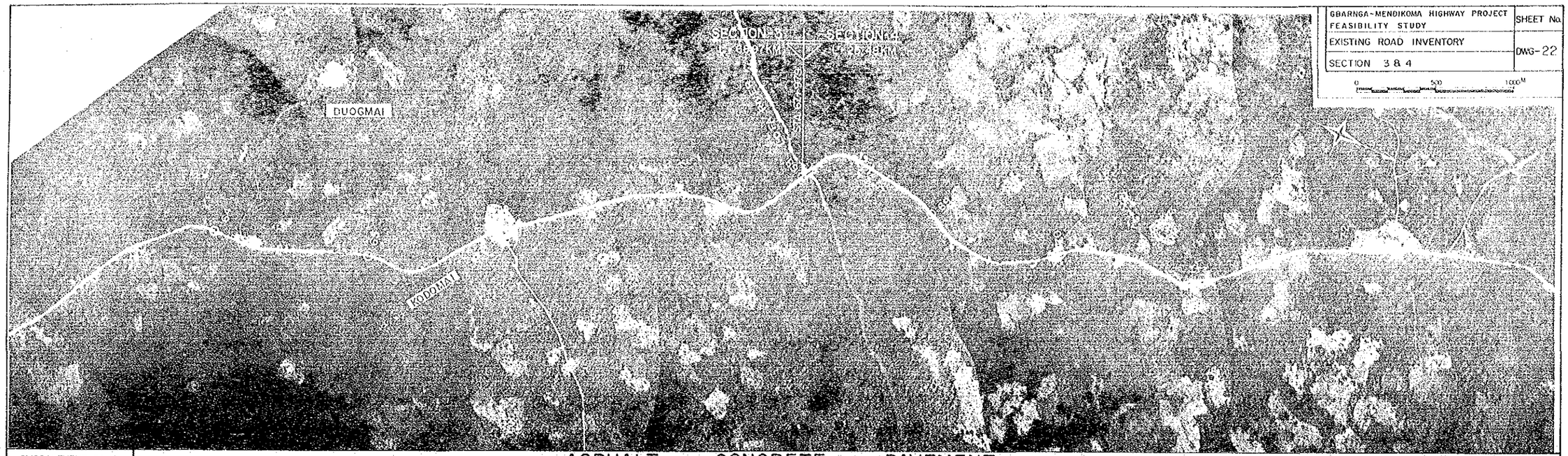
TERRAIN																																							
ACCUMLATIVE DISTANCE	MILE	35.0					35.6						36.3					36.9						37.5						38.1						38.8			
	KM	56.0					57.0						58.0					59.0						60.0						61.6						62.0			

HILLY AND MOUNTAINOUS

MILE	35.0	35.6	36.3	36.9	37.5	38.1	38.8	39.4	40.0
KM	56.0	57.0	58.0	59.0	60.0	61.6	62.0	63.0	64.0

GBARNGA-MENDIKOMA HIGHWAY PROJECT FEASIBILITY STUDY	SHEET No.
EXISTING ROAD INVENTORY	DWG-22
SECTION 3 & 4	

0 500 1000M



IMPROVEMENT PLAN: ASPHALT CONCRETE PAVEMENT

SECTION-3 L=68.97KM | SECTION-4 L=25.48KM

STA 67+979

7.45 x 93.20 LOFA RIVER

2-3.00x3.00x13.10 C-Bx

ELEVATION IN METERS: 580.00, 570.00, 560.00, 550.00, 540.00, 530.00

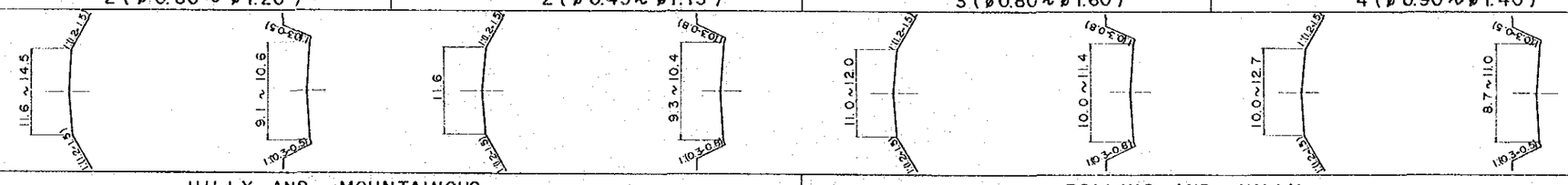
GRADIENT (%)	3.0	7.0	8.0	<1.0	9.0	7.0	2.0	<1.0	4.0	1.5	<1.0	2.0	5.0	2.5	6.5	<1.0	5.0	7.0	4.0	5.0	<1.0	3.0	7.0	2.5	10.0	1.0	8.0	6.0	3.0	4.5

CURVE BAND (R(M): 100, 500, 1000, ∞, 1000, 500, 100)

R=300, R=350, R=250, R=600, R=500, R=600, R=250, R=200, R=500, R=400, R=250, R=400, R=300, R=500, R=250, R=400

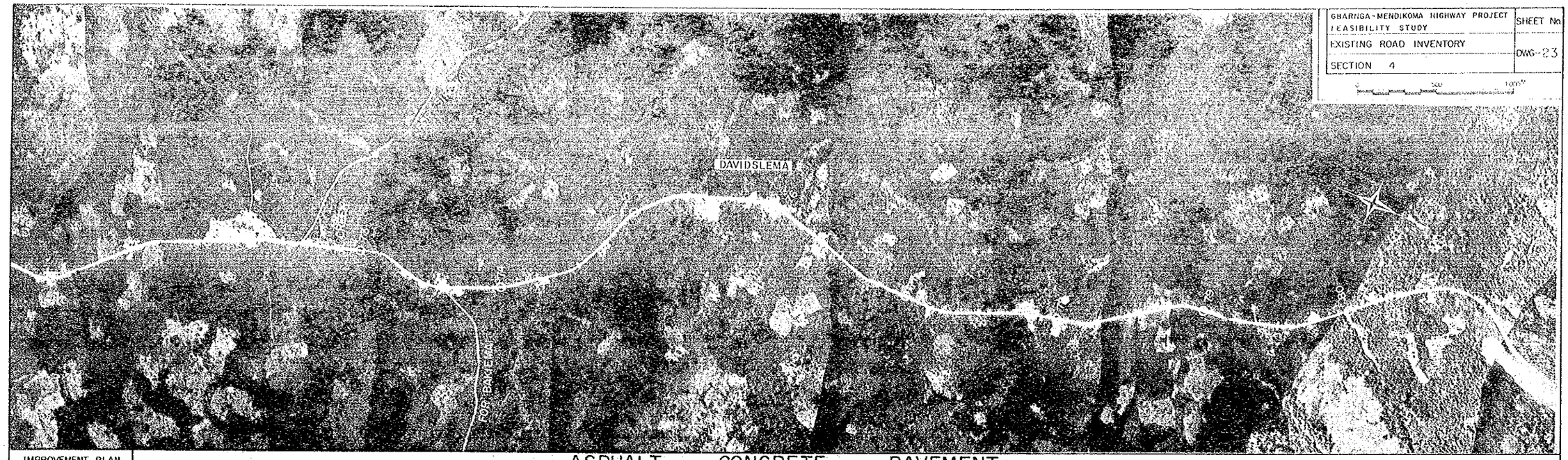
ALIGNMENT VERTICAL		FAIR	BAD	FAIR	GOOD					FAIR		GOOD	FAIR	BAD	GOOD	BAD	FAIR
ALIGNMENT HORIZONTAL	GOOD										FAIR	GOOD					
ROAD SURFACE CONDITION		GOOD														FAIR	
ROAD SURFACE TYPE	LATERITE PAVEMENT																
NUMBERS OF BRIDGE AND BOX		2				0				1			0				
NUMBERS OF PIPE		2 (ø0.60 ~ ø1.20)				2 (ø0.45 ~ ø1.15)				3 (ø0.80 ~ ø1.60)			4 (ø0.90 ~ ø1.40)				

CROSS SECTION (M)

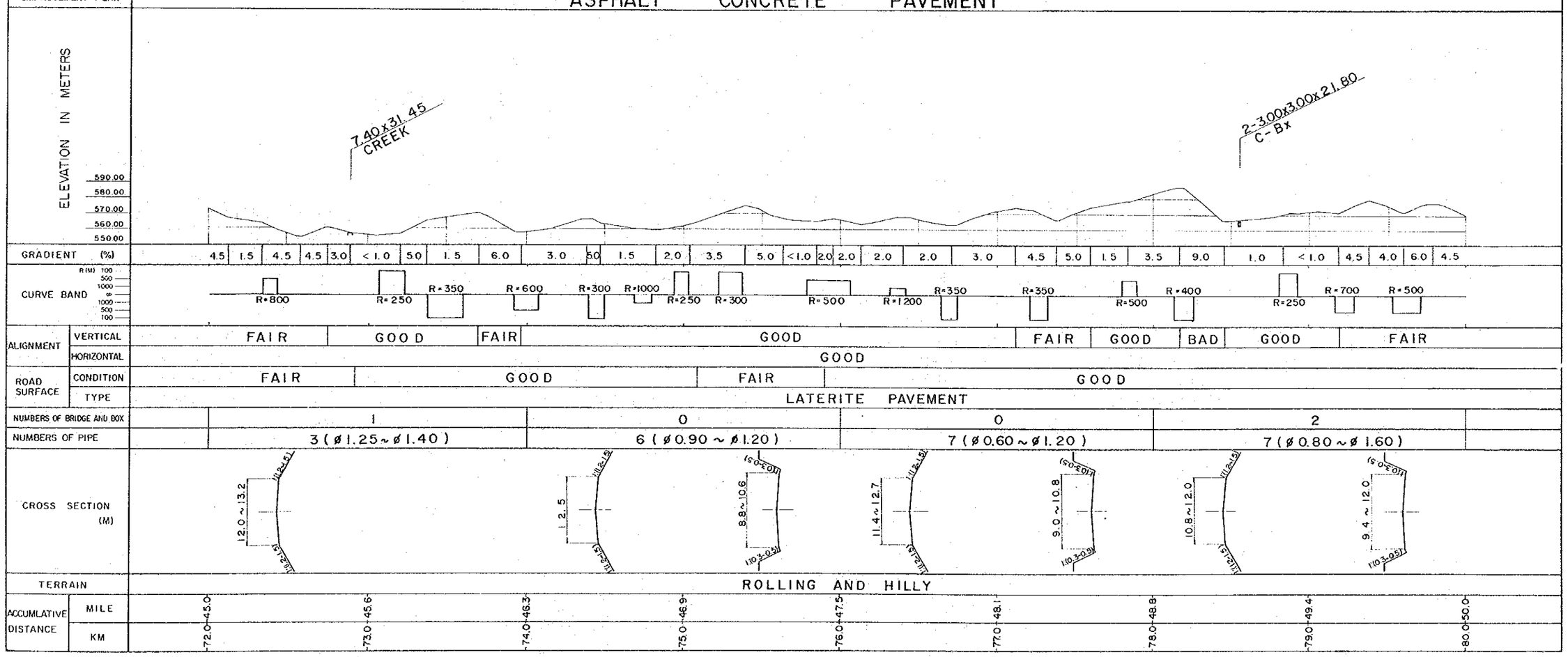


TERRAIN	HILLY AND MOUNTAINOUS									ROLLING AND HILLY							
ACCUMLATIVE DISTANCE MILE		64.0-40.0		65.0-40.6		66.0-41.3		67.0-41.9		68.0-42.5		69.0-43.1		70.0-43.8		71.0-44.4	72.0-45.0
ACCUMLATIVE DISTANCE KM																	

GBARNGA-MENDIKOMA HIGHWAY PROJECT FEASIBILITY STUDY	SHEET No
EXISTING ROAD INVENTORY	DWG-23
SECTION 4	

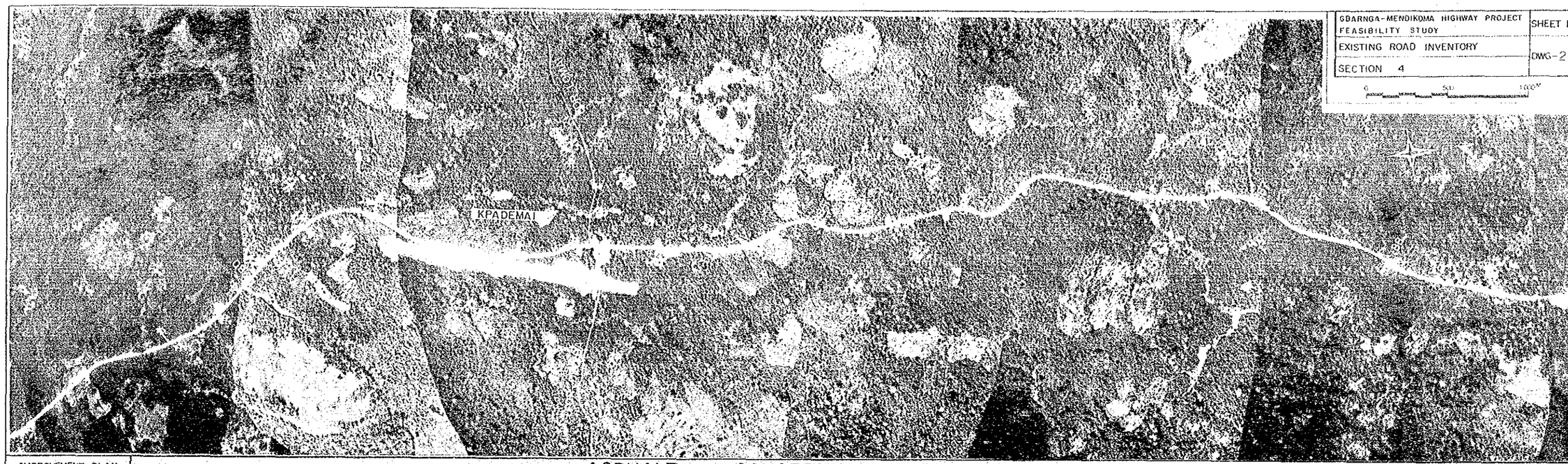


IMPROVEMENT PLAN: ASPHALT CONCRETE PAVEMENT



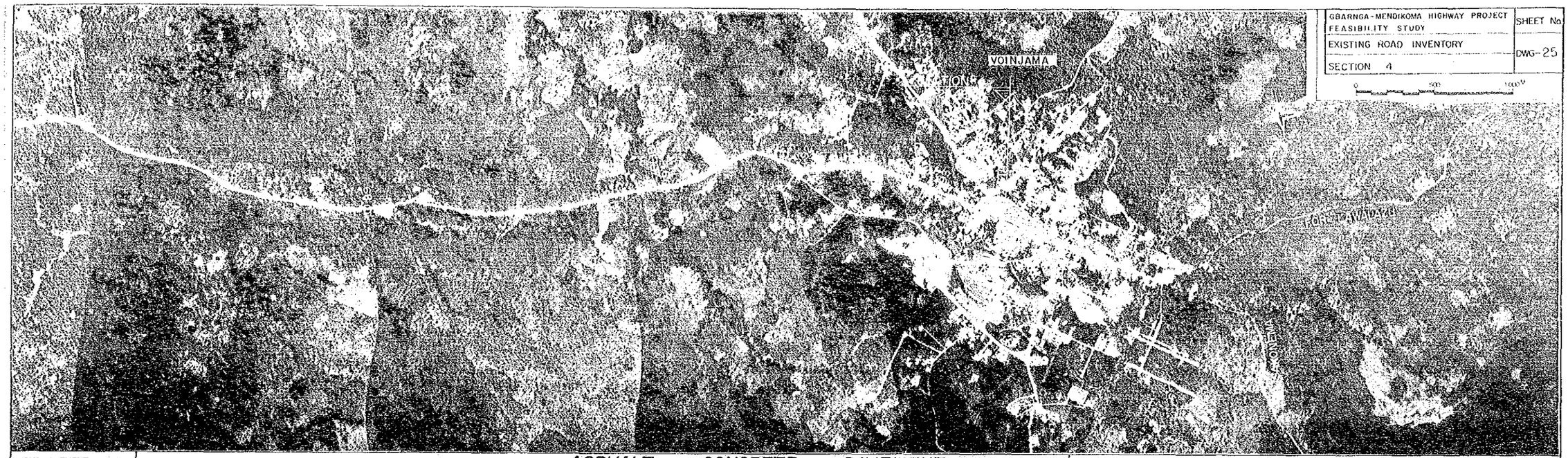
GBARNGA-MENDIKOMA HIGHWAY PROJECT FEASIBILITY STUDY	SHEET No
EXISTING ROAD INVENTORY	DWG-24
SECTION 4	

0 50 100M



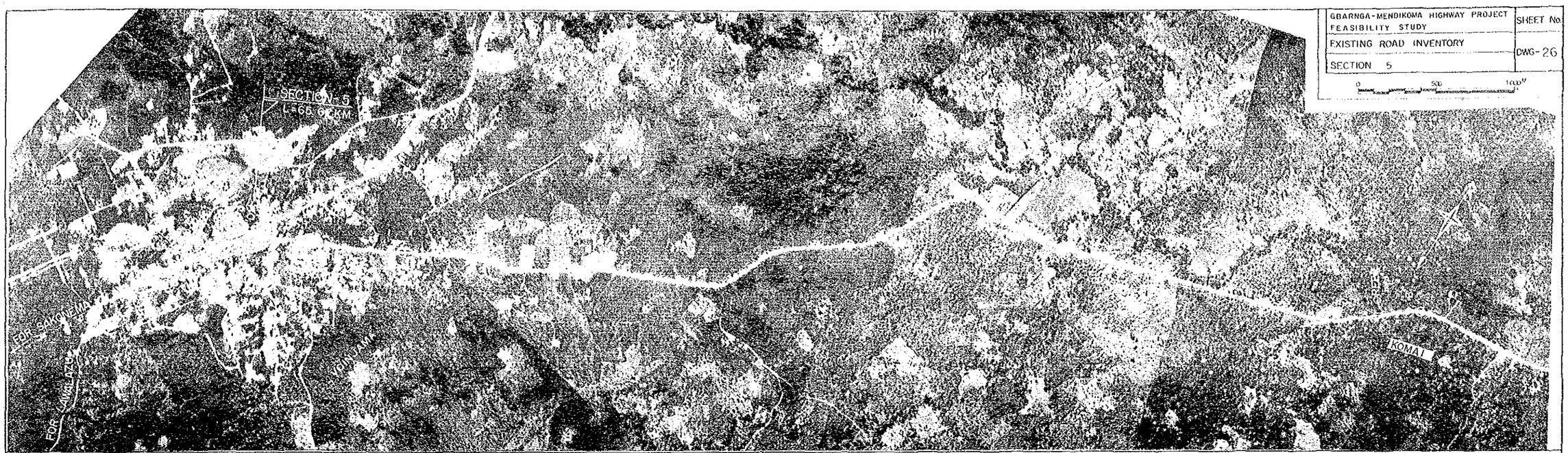
IMPROVEMENT PLAN	ASPHALT CONCRETE PAVEMENT
ELEVATION IN METERS (600.00, 590.00, 580.00, 570.00, 560.00)	
GRADIENT (%)	4.0 / < 1.0 / 4.0 / < 1.0 / 2.0 / < 1.0 / 1.5 / < 1.0 / 2.0 / 4.0 / 3.5 / < 1.0 / 2.5 / 4.0 / 3.0 / 4.0 / < 1.0 / 2.0 / 2.0 / 4.0 / < 1.0 / 2.5 / 2.5 / 1.0 / 3.5 / 5.0 / < 1.0 / 4.5 / 1.0 / < 1.0 / 1.5 / 1.0 / 2.0
CURVE BAND (R(M): 100, 500, 1000, ∞, 1000, 500, 100)	R=1000 / R=400 / R=300 / R=600 / R=400 / R=350 / R=2000 / R=300 / R=250 / R=450 / R=200 / R=200 / R=150 / R=900 / R=1000 / R=250 / R=350 / R=400
ALIGNMENT – VERTICAL	GOOD / FAIR / GOOD
ALIGNMENT – HORIZONTAL	GOOD / FAIR / GOOD
ROAD SURFACE – CONDITION	GOOD / FAIR / GOOD
ROAD SURFACE – TYPE	LATERITE PAVEMENT
NUMBERS OF BRIDGE AND BOX	0 / 0 / 0 / 0
NUMBERS OF PIPE	10 (ø 0.80 ~ ø 1.60) / 6 (ø 0.60 ~ ø 1.40) / 3 (ø 0.90 ~ ø 1.20) / 4 (ø 0.60 ~ ø 1.60)
CROSS SECTION (M)	10.2 ~ 11.4 / 10.3 / 11.0 ~ 11.4 / 9.8 ~ 10.2 / 10.4 ~ 13.5 / 9.8 / 12.6 ~ 13.8 / 8.3 ~ 10.3
TERRAIN	ROLLING AND HILLY
ACCUMLATIVE DISTANCE – MILE	50.0 / 50.6 / 51.3 / 51.9 / 52.5 / 53.1 / 53.8 / 54.4 / 55.0
ACCUMLATIVE DISTANCE – KM	80.0 / 81.0 / 82.0 / 83.0 / 84.0 / 85.0 / 86.0 / 87.0 / 88.0

GBARNGA-MENDIKOMA HIGHWAY PROJECT FEASIBILITY STUDY	SHEET No.
EXISTING ROAD INVENTORY	DWG-25
SECTION 4	

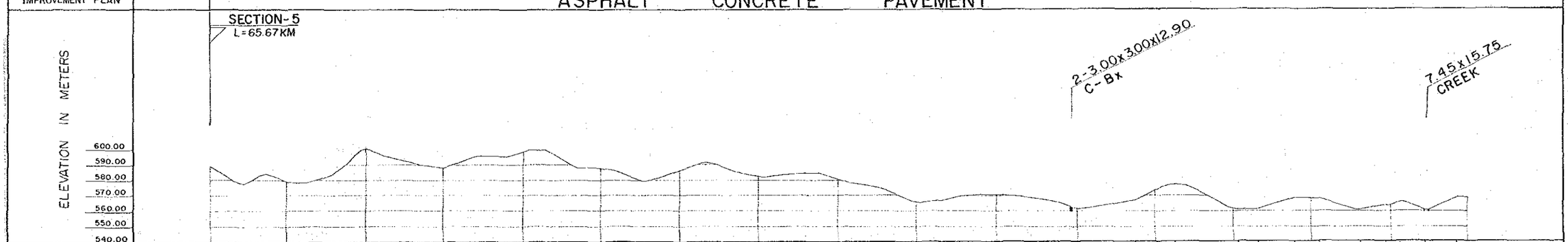


IMPROVEMENT PLAN	ASPHALT CONCRETE PAVEMENT
ELEVATION IN METERS (590.00, 580.00, 570.00, 560.00)	SECTION-4 L=25.48 KM; STA. 93+45.4; 7.40x37.60 ZELIBA RIVER
GRADIENT (%)	4.0 | 2.5 | 1.0 | 2.0 | < 1.0 | 2.5 | 5.0 | 5.0 | 5.0 | < 1.0 | 3.0 | < 1.0 | 1.5 | 6.0 | 2.0 | 5.0 | 4.5
CURVE BAND (R (M): 100, 500, 1000, ∞, 1000, 500, 100)	R=500, R=400, R=350, R=350, R=800, R=1000, R=800, R=150, R=250, R=300
ALIGNMENT – VERTICAL	GOOD | FAIR | GOOD | FAIR
ALIGNMENT – HORIZONTAL	GOOD | FAIR | GOOD
ROAD SURFACE – CONDITION	FAIR | GOOD
ROAD SURFACE – TYPE	LATERITE PAVEMENT
NUMBERS OF BRIDGE AND BOX	0 | 1 | 0
NUMBERS OF PIPE	8 (ø0.60 ~ ø1.60) | 5 (ø1.20 ~ ø1.50) | 5 (ø0.60 ~ ø1.40)
CROSS SECTION (M)	11.0 ~ 13.0; (1:2.5); (1:3.0-0.8); 8.2 ~ 12.4; (1:2.5); (1:3.0-0.8); 12.0 ~ 13.8; (1:2.5); (1:3.0-0.8); 9.2; (1:2.5); (1:3.0-0.8); 12.0 ~ 12.6; (1:2.5); (1:3.0-0.5); 8.2 ~ 10.1; (1:2.5); (1:3.0-0.8)
TERRAIN	ROLLING AND HILLY
ACCUMLATIVE DISTANCE – MILE	88.0+55.0 | 89.0+55.6 | 90.0+56.3 | 91.0+56.9 | 92.0+57.5 | 93.0+58.1
ACCUMLATIVE DISTANCE – KM	

GBARNGA-MENDIKOMA HIGHWAY PROJECT FEASIBILITY STUDY	SHEET No.
EXISTING ROAD INVENTORY	DWG-26
SECTION 5	

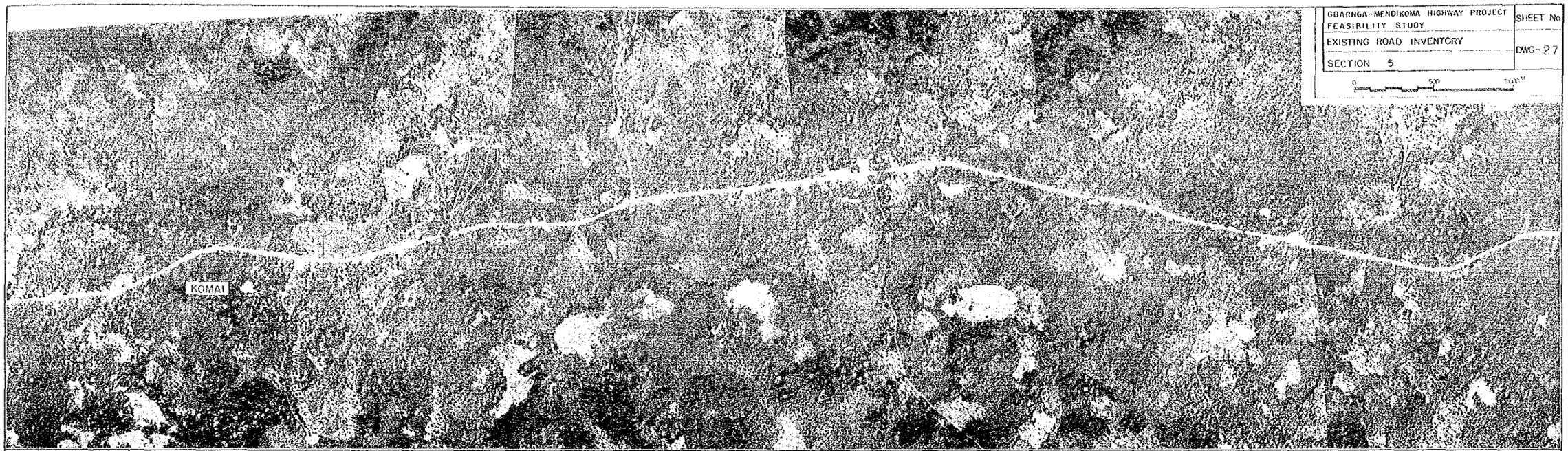
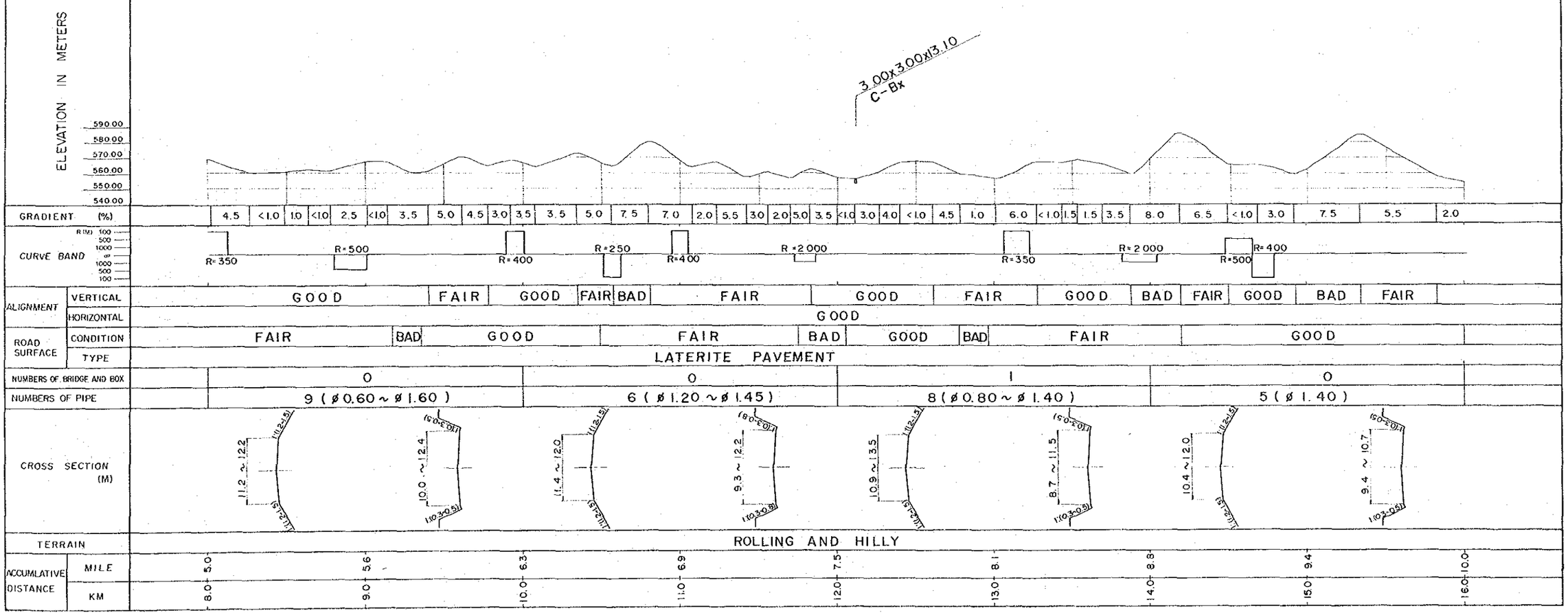


IMPROVEMENT PLAN: ASPHALT CONCRETE PAVEMENT



GRADIENT (%)	6.0 6.0 4.0 <1.0 4.0 8.0 4.0 2.0 4.0 <1.0 3.0 <1.0 5.5 4.0 3.0 3.5 2.0 <1.0 2.5 2.0 3.0 2.5 <1.0 2.0 3.5 1.5 5.0 5.0 <1.0 3.0 <1.0 3.0 2.0 3.0 4.0 3.5 <1.0				
CURVE BAND (R(M) 100, 500, 1000, ∞, 1000, 500, 100)	R=1500, R=400, R=400, R=1000, R=250, R=350, R=400, R=200, R=400, R=2000, R=400, R=350				
ALIGNMENT VERTICAL	FAIR	BAD	GOOD	FAIR	GOOD	FAIR	GOOD
ALIGNMENT HORIZONTAL	GOOD	FAIR	GOOD				
ROAD SURFACE CONDITION	BAD	GOOD	BAD	FAIR	GOOD		
ROAD SURFACE TYPE	LATERITE PAVEMENT						
NUMBERS OF BRIDGE AND BOX	0	0	2	1			
NUMBERS OF PIPE	9 (ø0.60~ø1.20)	6 (ø0.60~ø1.60)	3 (ø1.20~ø1.60)	6 (ø0.60~ø1.60)			
CROSS SECTION (M)	10.3~13.3	10.3~10.8	11.8~12.3	9.3~11.0	10.4~12.2	8.6~17.7	10.7~13.0	8.9~11.6
TERRAIN	ROLLING AND HILLY							
ACCUMLATIVE DISTANCE MILE	0.0	0.6	1.3	1.9	2.5	3.1	3.8	4.4	5.0
ACCUMLATIVE DISTANCE KM	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0

GBARNGA-MENDIKOMA HIGHWAY PROJECT FEASIBILITY STUDY	SHEET No
EXISTING ROAD INVENTORY	DWG-27
SECTION 5	



IMPROVEMENT PLAN	ASPHALT CONCRETE PAVEMENT