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FOR
GBARNGA-KOLAHUN-MENDIKOMA HIGHWAY PROJECT

APPENDIX AND DRAWINGS

MARCH 1980

JAPAN INTERNATIONAL COOPERATION AGENCY

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JAPAN INTERNATIONAL COOPERATION AGENCY

国際協力事業団	
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APPENDIX AND DRAWINGS

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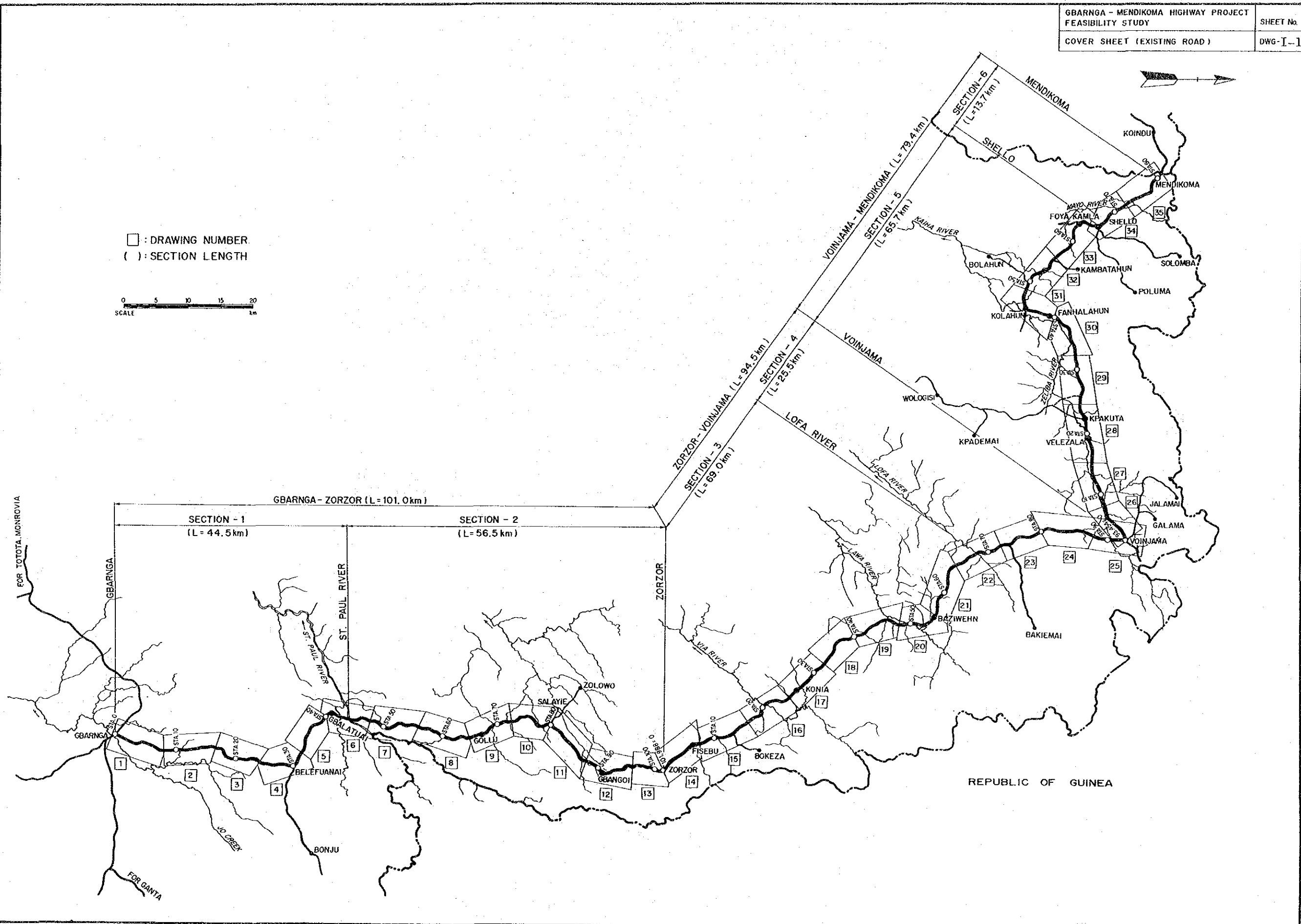
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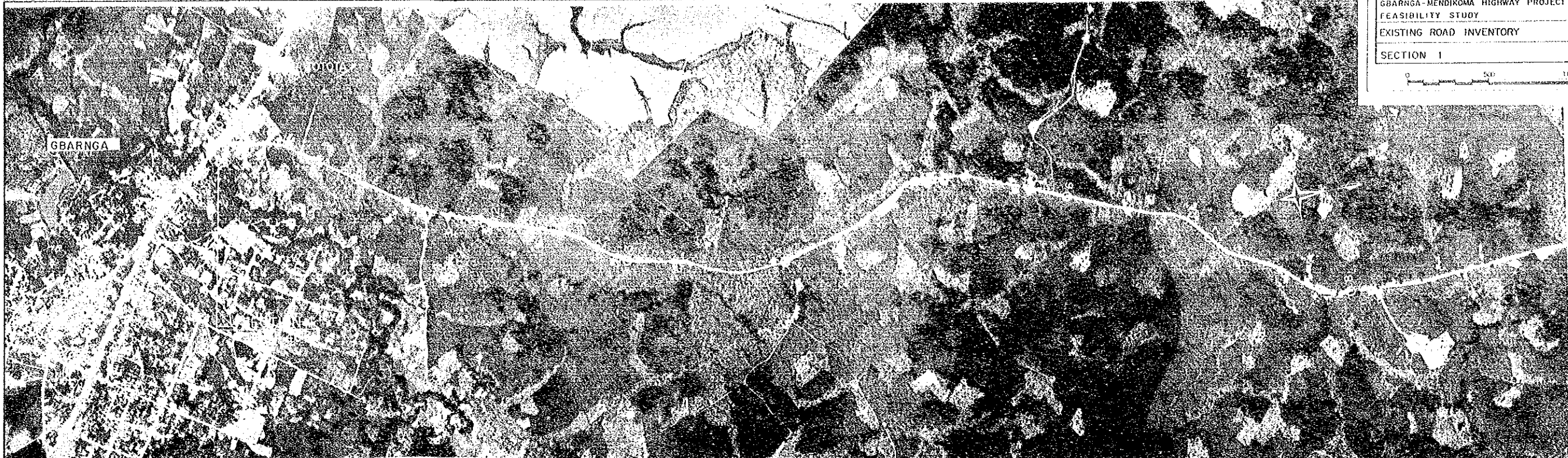
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(I)

EXISTING ROAD INVENTORY

□ : DRAWING NUMBER
() : SECTION LENGTH





IMPROVEMENT PLAN		ASPHALT CONCRETE PAVEMENT											
ELEVATION IN METERS	STA. 0+000 BEGINNING POINT	SECTION-1 L=44.48KM											
		GRADIENT (%) 7.0 1.5 2.5 2.0 1.0 4.0 6.5 4.5 1.5 3.0 5.5 4.0 6.5 2.0 <1.0 3.5 <1.0 3.0 <1.0 2.5 2.0 7.5 <1.0 3.5 <1.0 7.0 <1.0 6.0 5.0 3.0 <1.0 6.0 6.0 3.0											
		CURVE BAND 											
		ALIGNMENT VERTICAL: GOOD FAIR GOOD FAIR GOOD BAD GOOD FAIR GOOD FAIR HORIZONTAL: GOOD											
		ROAD SURFACE CONDITION: GOOD FAIR GOOD FAIR GOOD FAIR GOOD TYPE: LATERITE PAVEMENT											
		NUMBERS OF BRIDGE AND BOX: 0 2 1 0											
		NUMBERS OF PIPE: 2 (ø 1.00 ~ ø 1.10) 3 (ø 0.55 ~ ø 1.35) 2 (ø 0.85) 4 (ø 1.00 ~ ø 1.25)											
		CROSS SECTION (M) 											
		TERRAIN: ROLLING AND HILLY											
ACCUMULATIVE DISTANCE	MILE	0.0	0.6	1.3	1.9	2.5	3.1	3.8	4.4	5.0			
	KM	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0			



IMPROVEMENT PLAN		ASPHALT CONCRETE PAVEMENT																															
ELEVATION IN METERS																																	
	GRADIENT (%)	<1.0	2.5	<1.0	5.0	<1.0	3.0	<1.0	4.0	2.0	2.0	<1.0	4.0	1.0	6.0	<1.0	4.0	6.0	4.0	2.0	6.0	3.0	<1.0	2.0	3.0	5.0	4.0	<1.0	5.0	3.0	4.0	3.0	1.0
	CURVE BAND	R=1000		R=1000		R=600		R=600		R=400		R=1200		R=800		R=600		R=800		R=400		R=250		R=400		R=500							
	ALIGNMENT	VERTICAL	GOOD				FAIR				GOOD				FAIR				GOOD				FAIR				GOOD						
ROAD SURFACE	CONDITION	GOOD	BAD	FAIR	GOOD	FAIR	GOOD	FAIR	GOOD	FAIR	GOOD	FAIR	GOOD	FAIR	GOOD	FAIR	GOOD	FAIR	GOOD	FAIR	GOOD	FAIR	GOOD	FAIR	GOOD	FAIR	GOOD	FAIR	GOOD	FAIR	GOOD		
	TYPE	LATERITE PAVEMENT																															
NUMBERS OF BRIDGE AND BOX		2				1				1				0																			
NUMBERS OF PIPE		5 (ø 0.55 ~ ø 1.40)				2 (ø 0.65 ~ ø 0.90)				2 (ø 1.00)				4 (ø 0.60 ~ ø 1.40)																			
CROSS SECTION (M)																																	
TERRAIN		ROLLING AND HILLY																															
ACCUMULATIVE DISTANCE	MILE	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0															
	KM	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0															



IMPROVEMENT PLAN ASPHALT CONCRETE PAVEMENT

ELEVATION IN METERS	360.00																																																							
	350.00																																																							
	340.00																																																							
	330.00																																																							
	320.00																																																							
	310.00																																																							
	300.00																																																							
	290.00																																																							
	280.00																																																							
	270.00																																																							
GRADIENT (%)	1.0	3.0	2.0	3.0	2.0	3.0	2.0	1.0	1.5	3.0	2.0	<1.0	3.0	3.0	6.0	6.0	<1.0	2.0	1.5	2.5	3.0	<1.0	1.5	5.0	<1.0	2.0	3.0	5.0	4.0	2.5	5.0	1.0																								
CURVE BAND	R=350		R=250		R=300		R=250		R=2000		R=250		R=500		R=600				R=600		R=600		R=300				R=250		R=500		R=400		R=1500		R=250		R=250																			
ALIGNMENT VERTICAL	GOOD														FAIR		GOOD										FAIR		GOOD																											
ALIGNMENT HORIZONTAL	GOOD																																																							
ROAD SURFACE CONDITION	GOOD				FAIR				GOOD				FAIR		BAD		FAIR		BAD		GOOD		FAIR		GOOD																															
ROAD SURFACE TYPE	LATEITE PAVEMENT																																																							
NUMBERS OF BRIDGE AND BOX	0																																																							
NUMBERS OF PIPE	3 (ø 0.80 ~ ø 1.15)							6 (ø 0.60 ~ ø 1.45)							7 (ø 0.60 ~ ø 1.60)							4 (ø 0.60 ~ ø 1.60)																																		
CROSS SECTION (M)																																																								
TERRAIN	ROLLING AND HILLY																																																							
ACCUMULATIVE DISTANCE MILE	16.0-10.0	17.0-10.6	18.0-11.3	19.0-11.9	20.0-12.5	21.0-13.1	22.0-13.8	23.0-14.4	24.0-15.0																																															
ACCUMULATIVE DISTANCE KM	16.0-10.0	17.0-10.6	18.0-11.3	19.0-11.9	20.0-12.5	21.0-13.1	22.0-13.8	23.0-14.4	24.0-15.0																																															

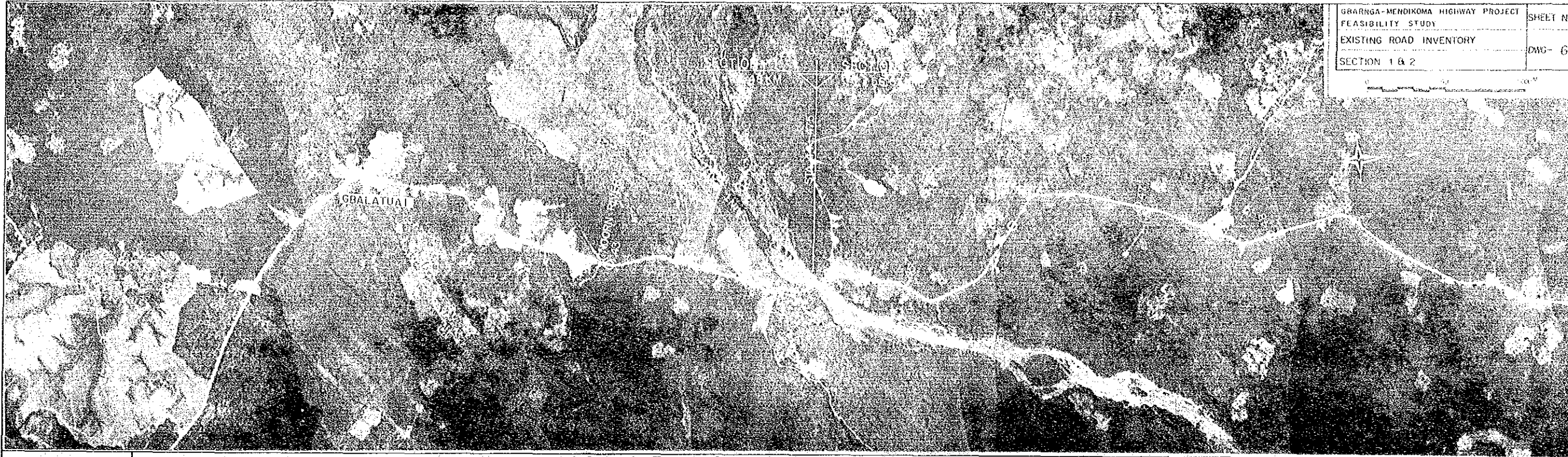
3.10x1.60x9.80
C-Bx

3.00x3.00x21.10
C-Bx

WONYAKO



IMPROVEMENT PLAN		ASPHALT CONCRETE PAVEMENT																													
ELEVATION IN METERS																															
	GRADIENT (%)	2.0	3.0	1.0	7.0	1.5	3.0	7.0	2.5	3.0	4.0	1.5	2.0	1.0	<1.0	4.0	2.0	3.5	<1.0	4.0	<1.0	2.0	3.0	4.0	3.0	1.0	3.0	3.0	6.0	2.0	2.0
	CURVE BAND	R=250	R=1000	R=600	R=800	R=250	R=300	R=1500	R=600	R=250	R=250	R=450	R=450	R=250	R=300	R=150	R=200	R=300													
	ALIGNMENT VERTICAL	GOOD				FAIR	GOOD	FAIR	GOOD										FAIR	GOOD											
	ALIGNMENT HORIZONTAL	GOOD																													
	ROAD SURFACE CONDITION	GOOD				BAD	FAIR	GOOD	BAD	FAIR	BAD	GOOD	FAIR	GOOD	FAIR	GOOD	FAIR	GOOD	BAD	GOOD											
	ROAD SURFACE TYPE	LATERITE PAVEMENT																													
	NUMBERS OF BRIDGE AND BOX	0				0										1				0											
	NUMBERS OF PIPE	5 (ø 0.60 ~ ø 1.40)				3 (ø 0.50 ~ ø 0.60)										5 (ø 0.60 ~ ø 1.40)				3 (ø 0.60 ~ ø 1.20)											
	CROSS SECTION (M)																														
TERRAIN	ROLLING AND HILLY																														
ACCUMULATIVE DISTANCE MILE	24.0	25.0	26.0	27.0	28.0	29.0	30.0	31.0	32.0																						
ACCUMULATIVE DISTANCE KM	24.0	25.0	26.0	27.0	28.0	29.0	30.0	31.0	32.0																						



IMPROVEMENT PLAN		ASPHALT CONCRETE PAVEMENT																																		
		SECTION-1 L=44.48KM									SECTION-2 L=56.53KM																									
ELEVATION IN METERS																																				
	GRADIENT (%)	6.0	1.5	2.0	3.5	4.5	3.0	3.0	4.0	2.0	4.0	1.0	4.5	2.0	5.0	5.0	4.5	<1.0	4.5	1.0	2.0	4.5	6.5	2.0	<1.0	1.5	3.0	<1.0								
	CURVE BAND	R=1000	R=650	R=250	R=150	R=250	R=1500	R=250	R=250	R=250	R=250	R=300	R=300	R=150	R=250	R=100	R=500	R=1500	R=250																	
	ALIGNMENT VERTICAL	FAIR			GOOD						FAIR			GOOD			FAIR			GOOD																
	ALIGNMENT HORIZONTAL	GOOD						FAIR			GOOD			FAIR			GOOD			BAD			GOOD													
	ROAD SURFACE CONDITION	FAIR			GOOD			FAIR			GOOD			FAIR			GOOD			BAD			FAIR													
ROAD SURFACE TYPE	LATERITE PAVEMENT																																			
NUMBERS OF BRIDGE AND BOX	3									1									0																	
NUMBERS OF PIPE	2 (Ø 0.80 ~ Ø 1.00)									2 (Ø 1.20 ~ Ø 1.30)									7 (Ø 0.60 ~ Ø 1.20)									0								
CROSS SECTION (M)																																				
TERRAIN	ROLLING AND HILLY																																			
ACCUMULATIVE DISTANCE	MILE	40.0	25.0	26.3	26.9	27.5	28.1	28.6	29.4	30.0																										
	KM	40.0	25.0	26.3	26.9	27.5	28.1	28.6	29.4	30.0																										