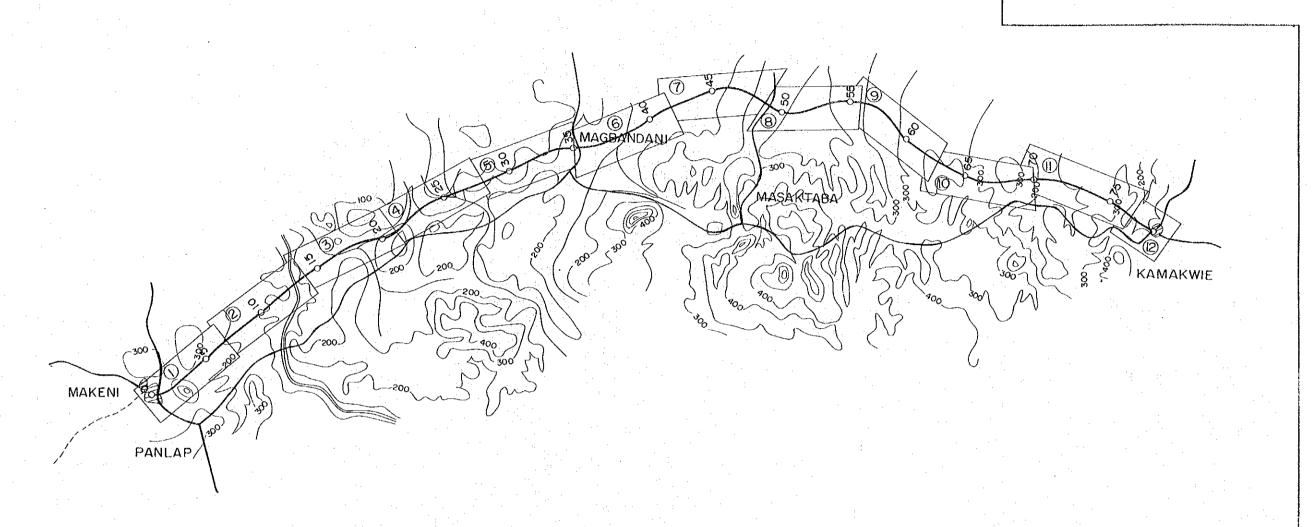
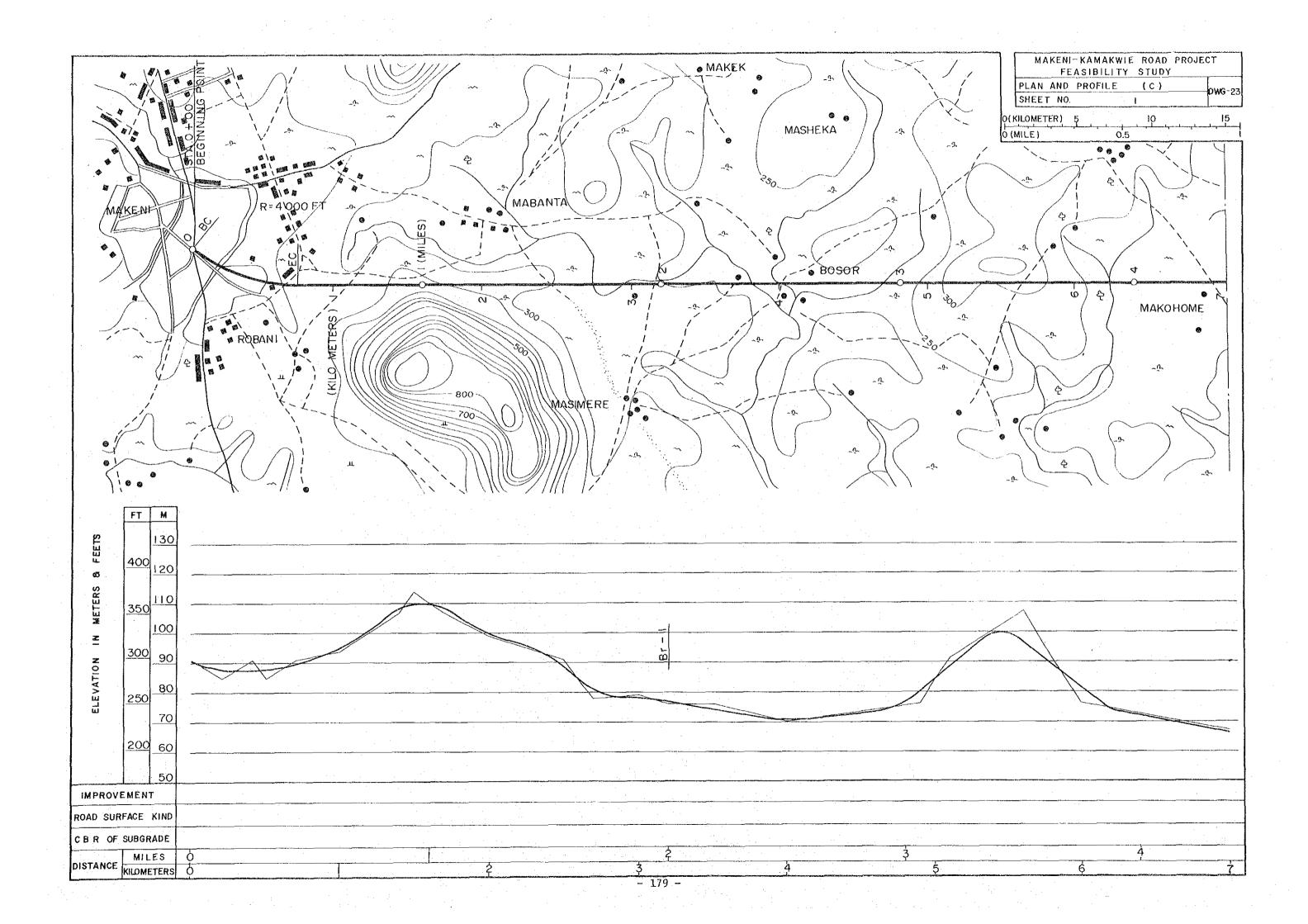
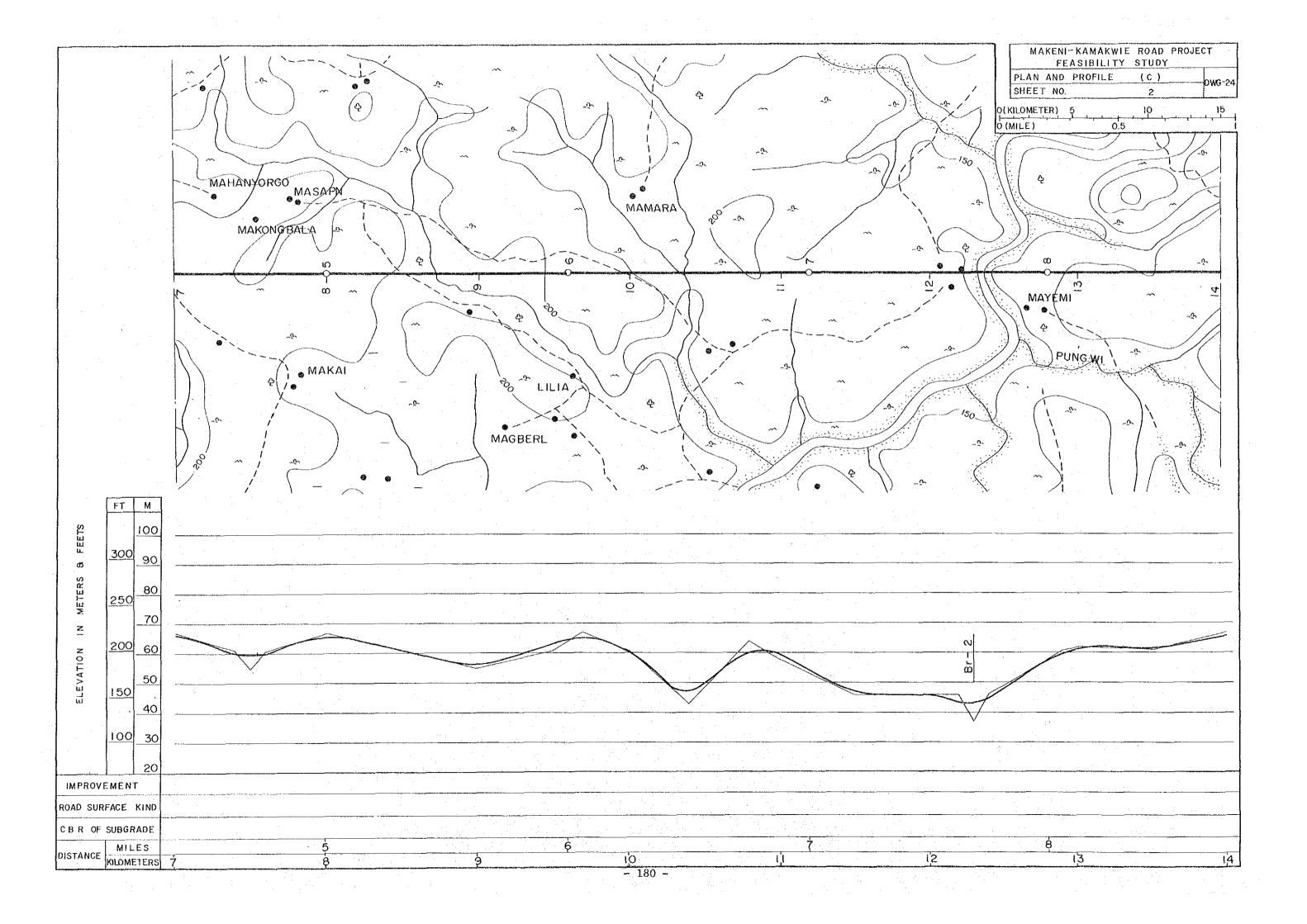
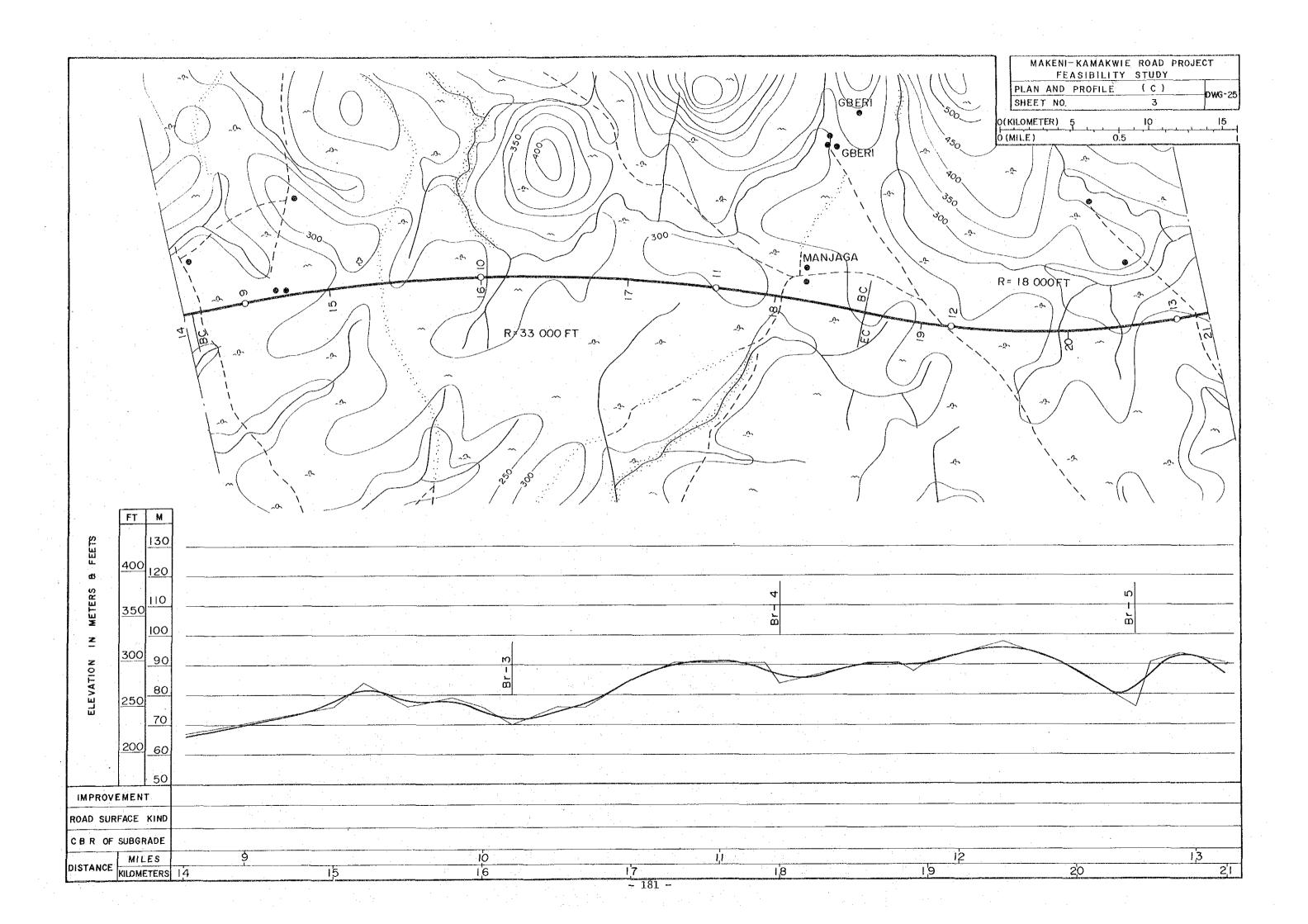
# APPENDIX S-3 PLAN AND PROFILE OF ALTERNATIVE PLAN C

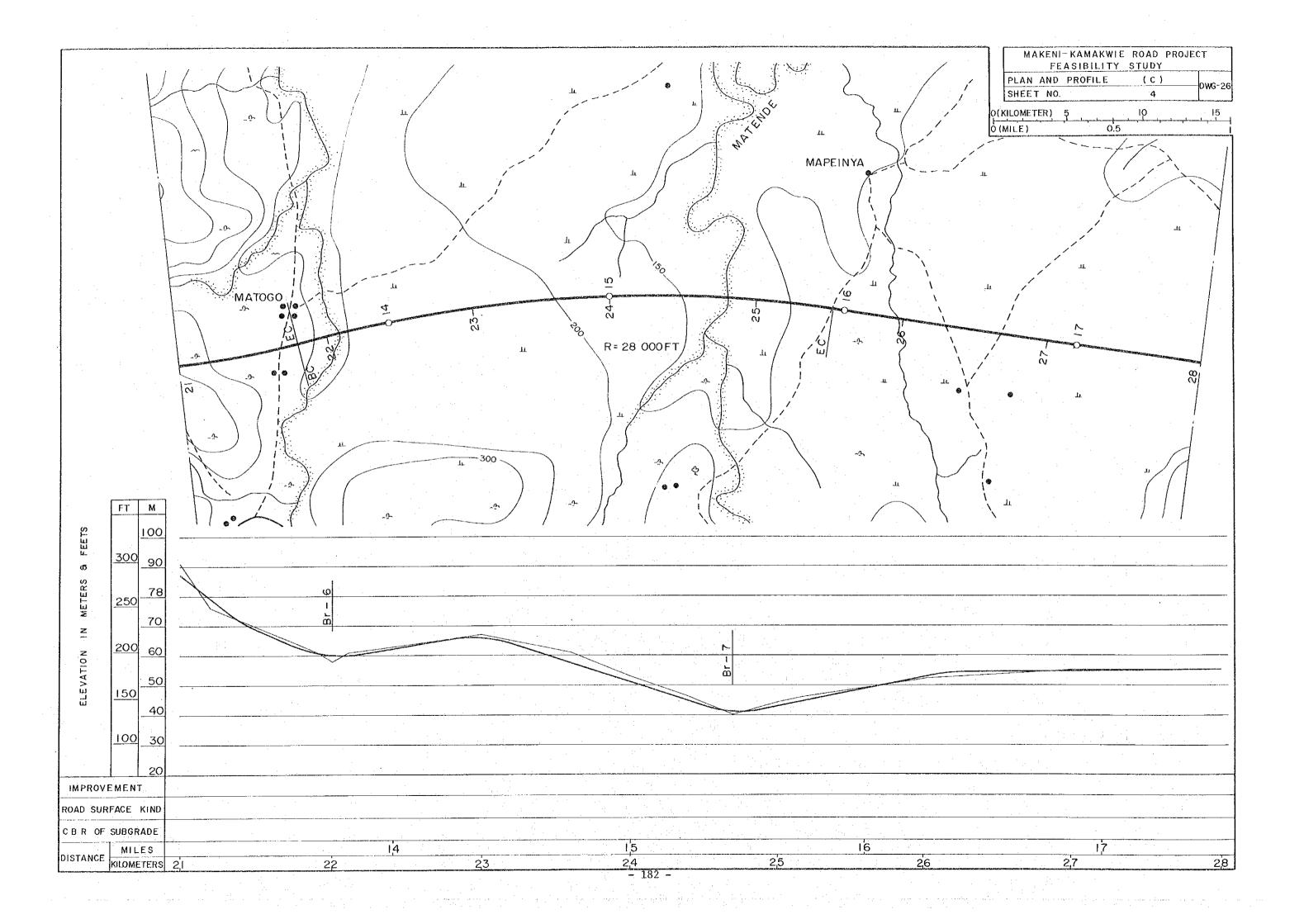
MAR	KENI-KAMA	KWIE	ROAD	PROJE	CT
	FEASIBI	LITY S	TUDY	Υ	
COVER	SHEET	( c	)		DWG-
SHEET	NO.				DMG.

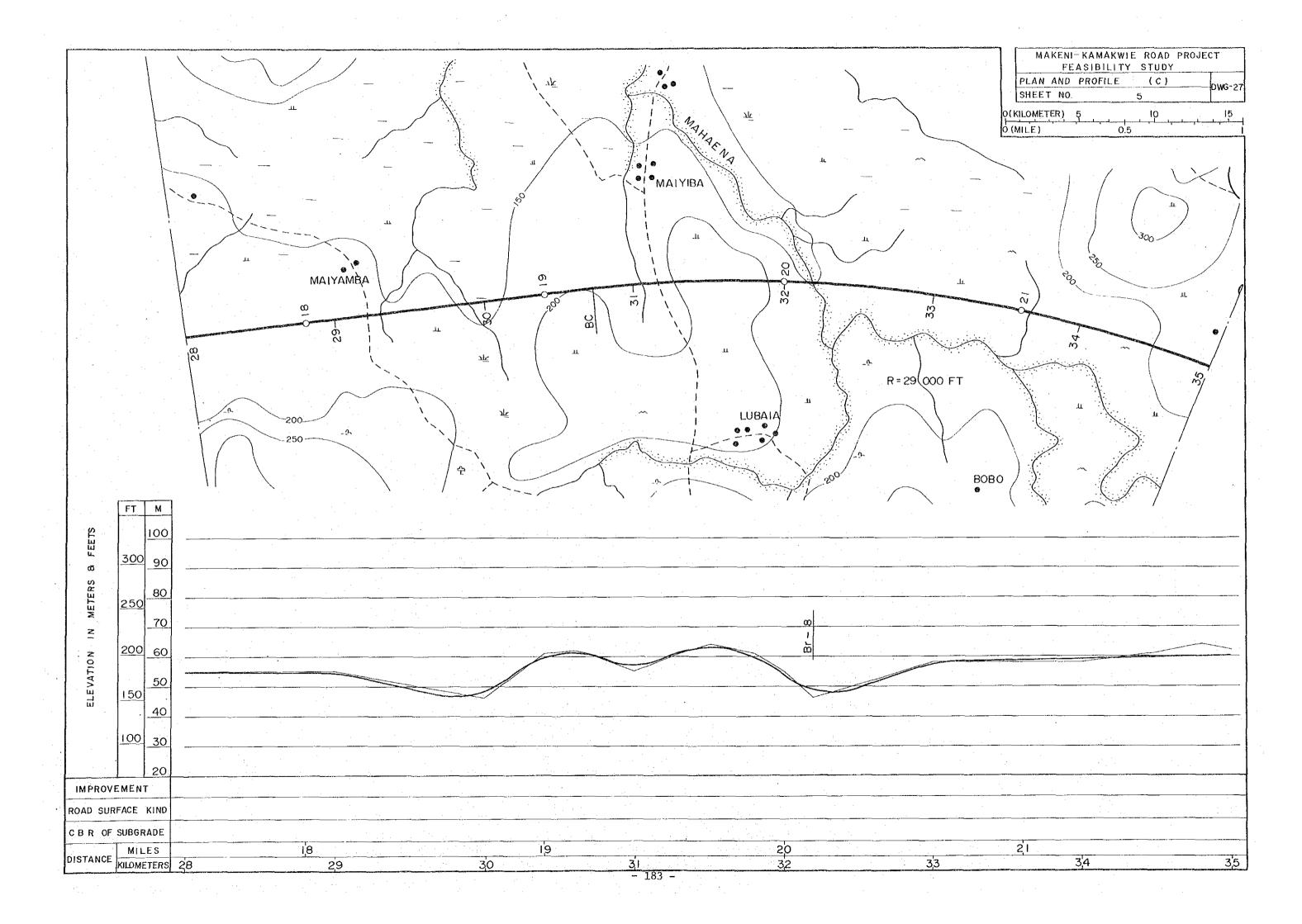


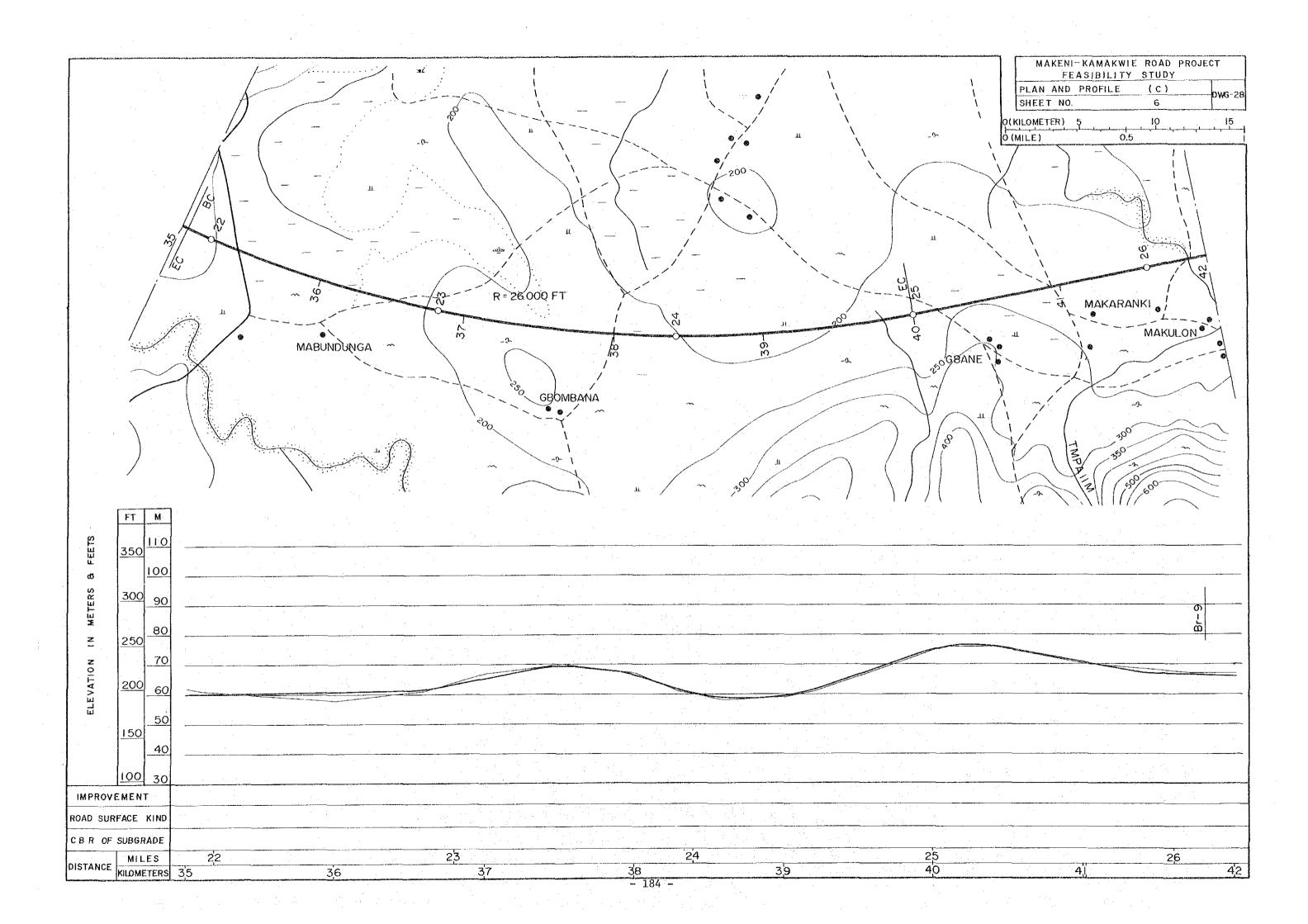


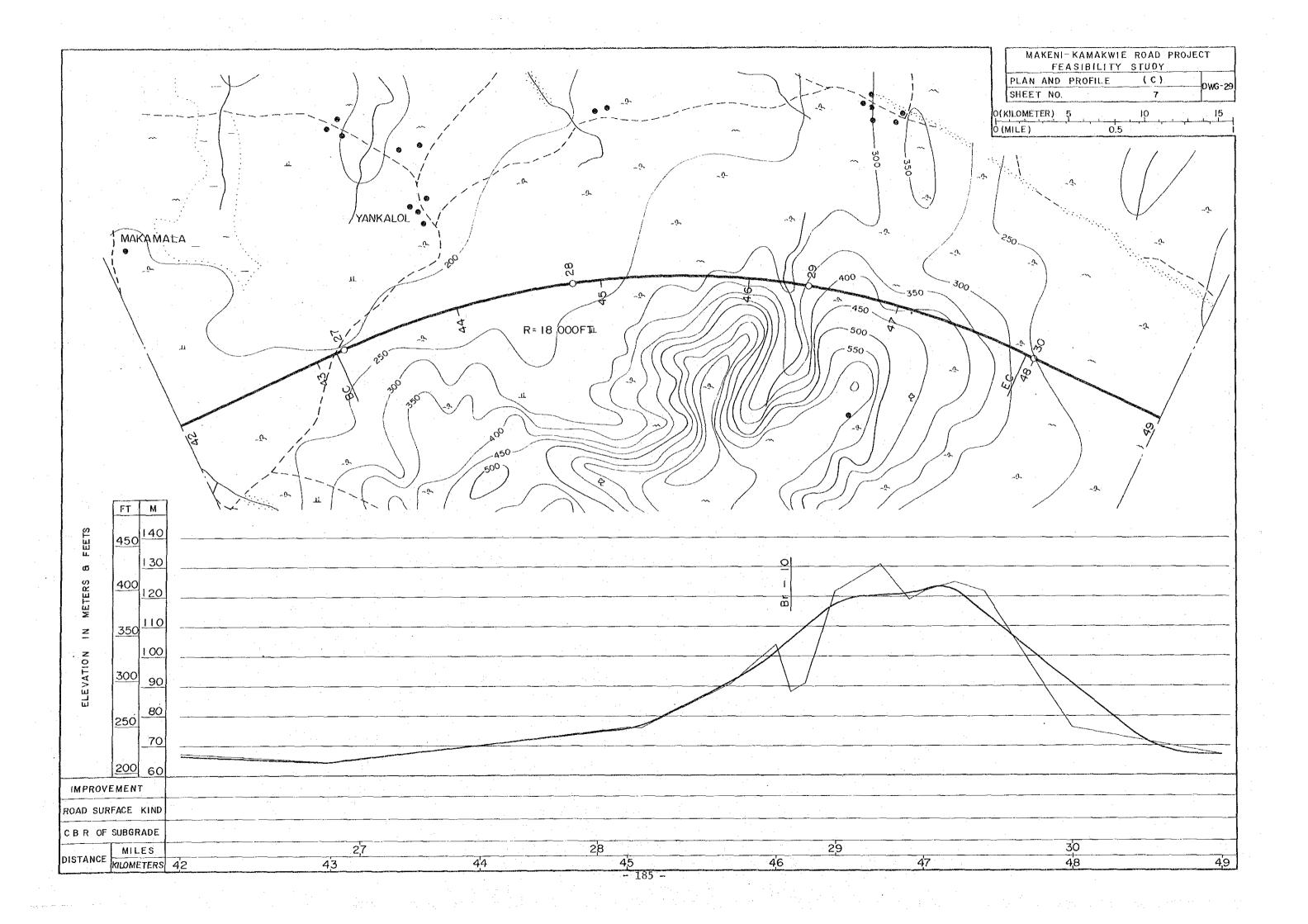


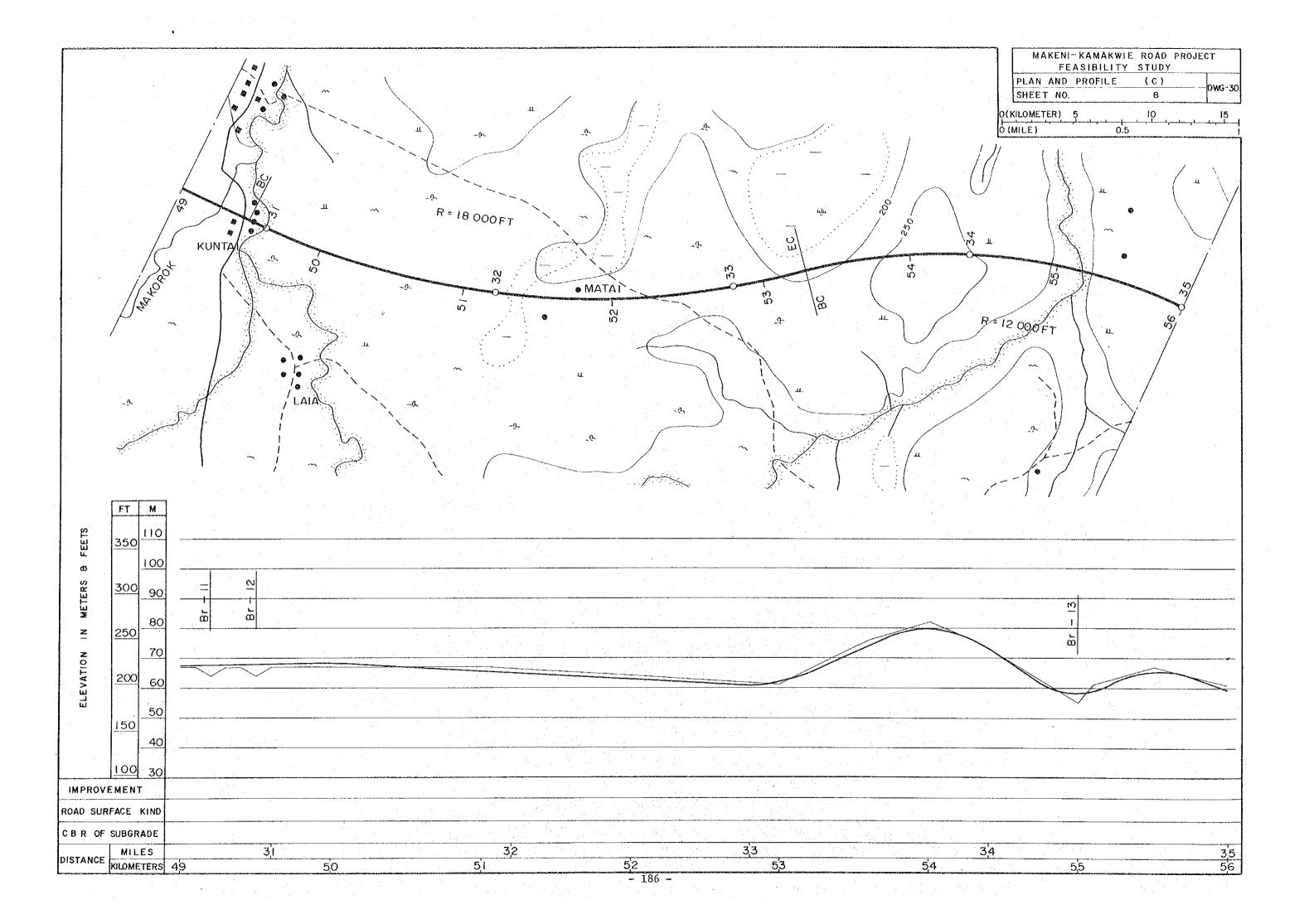


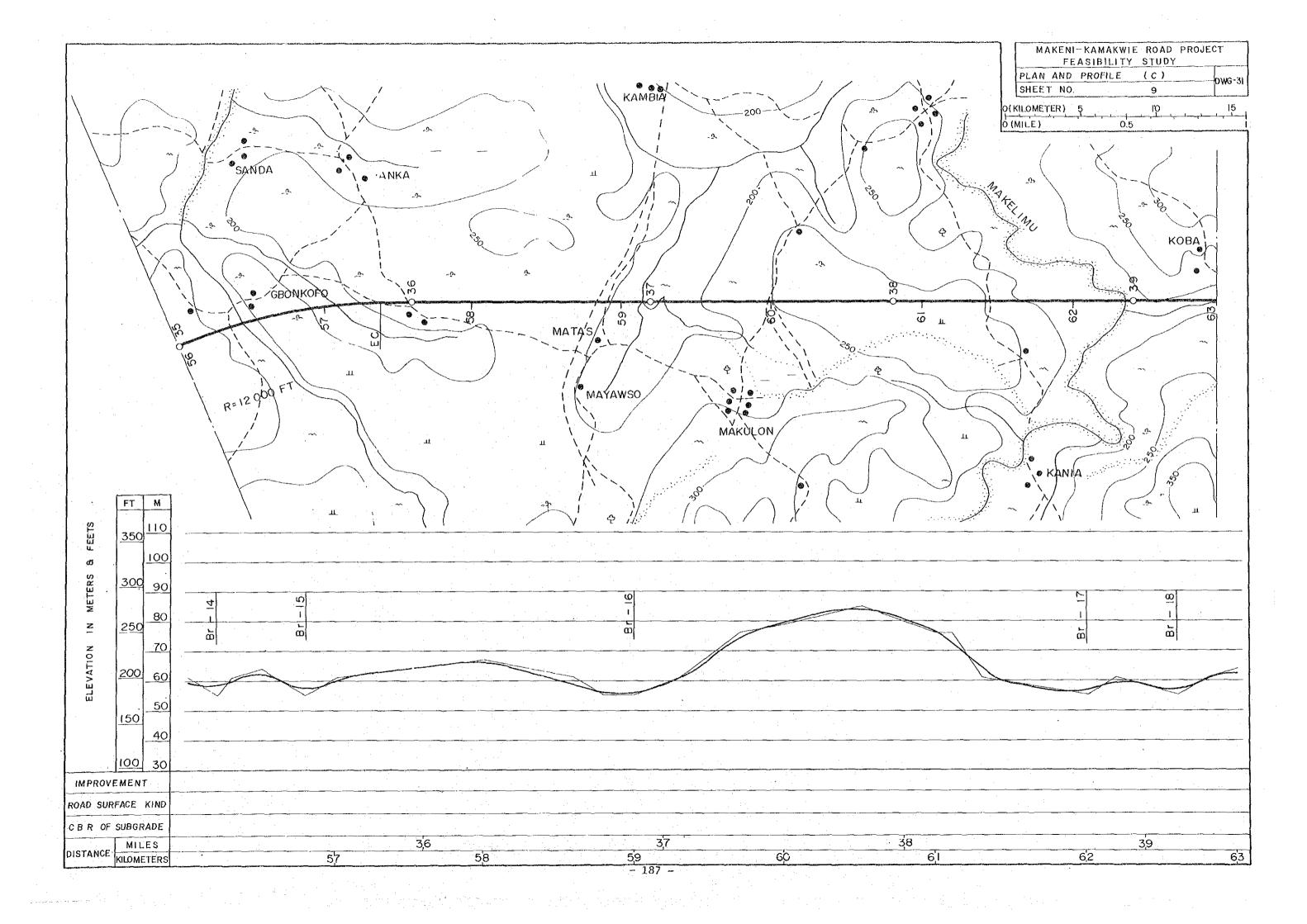


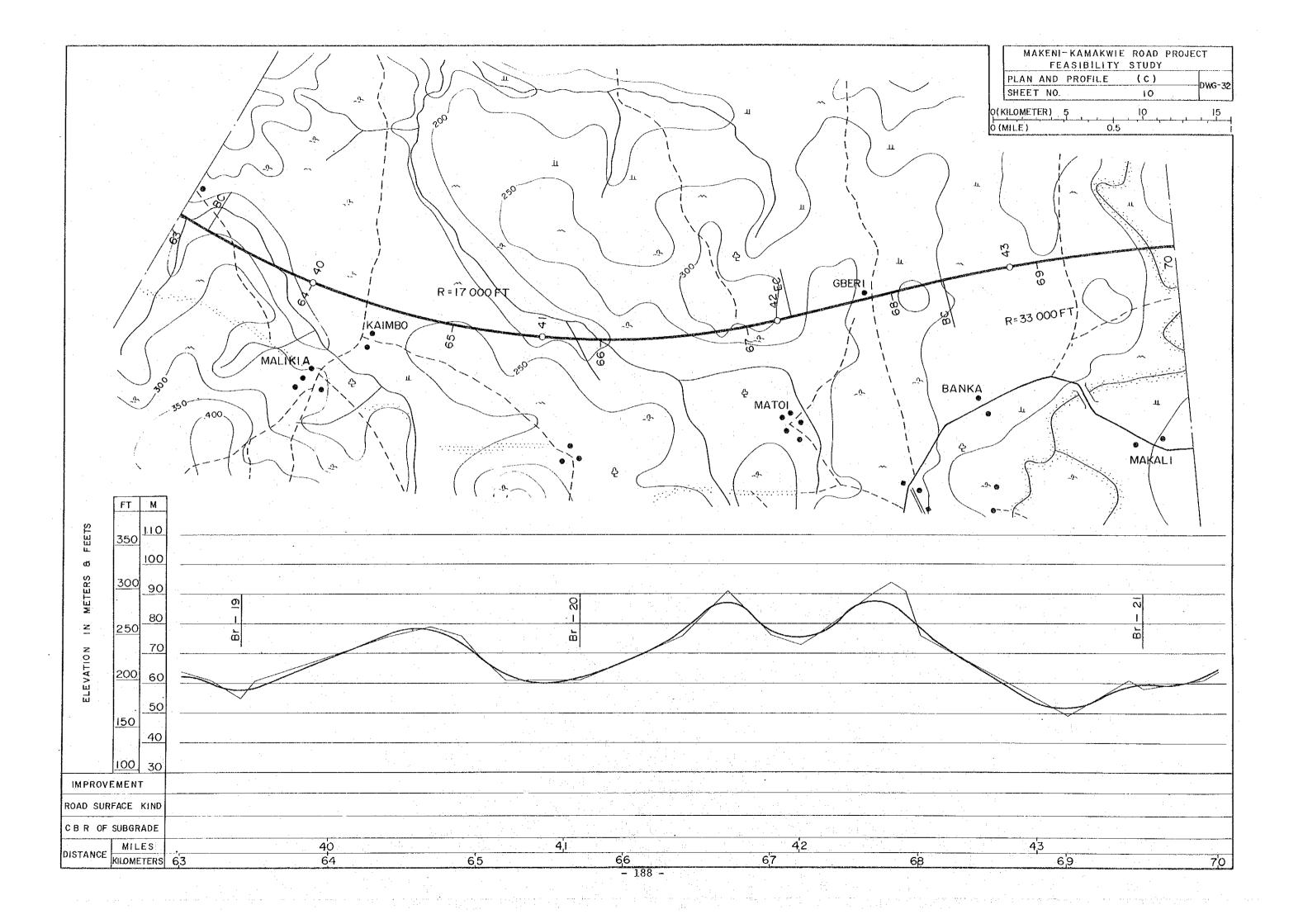


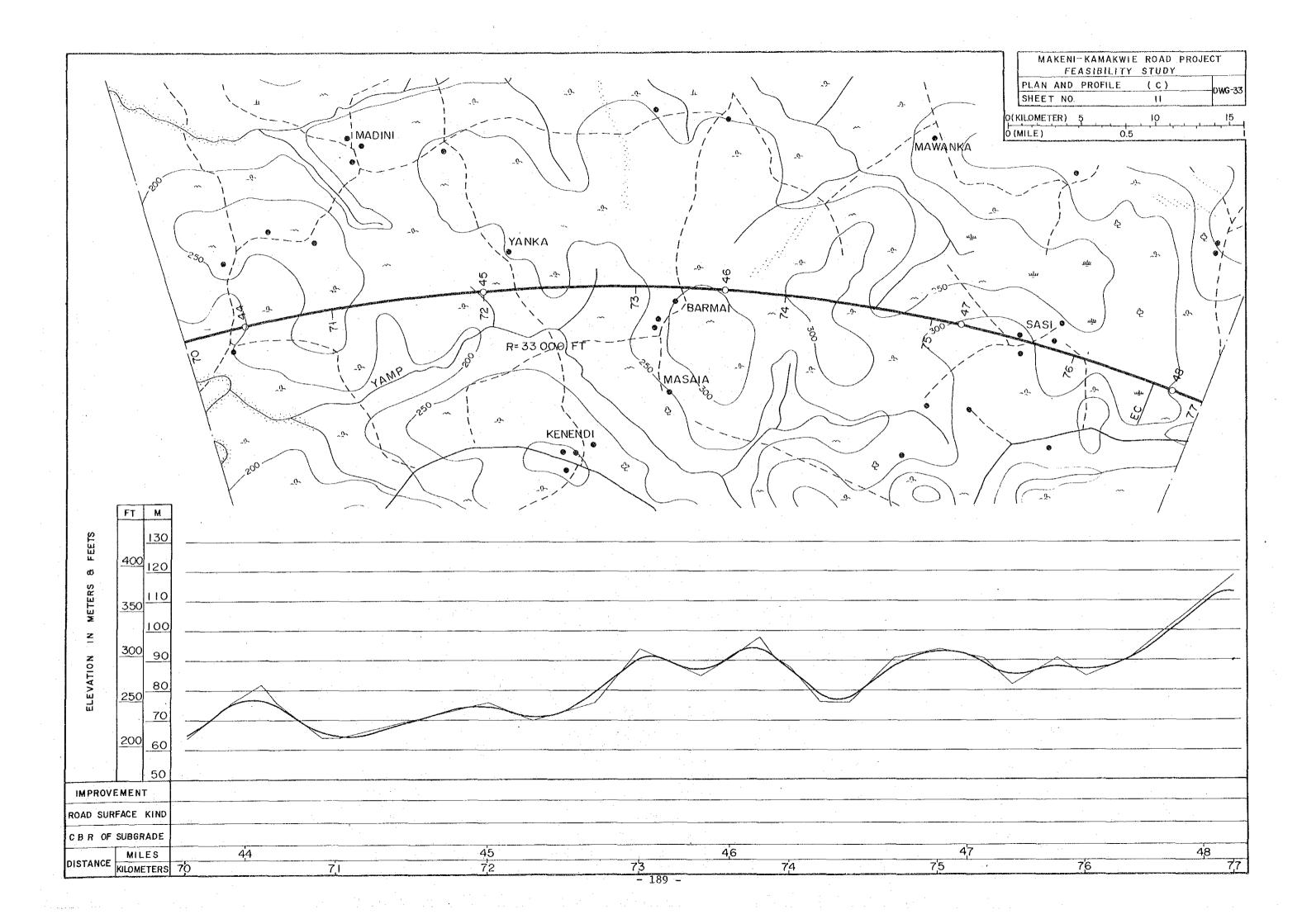


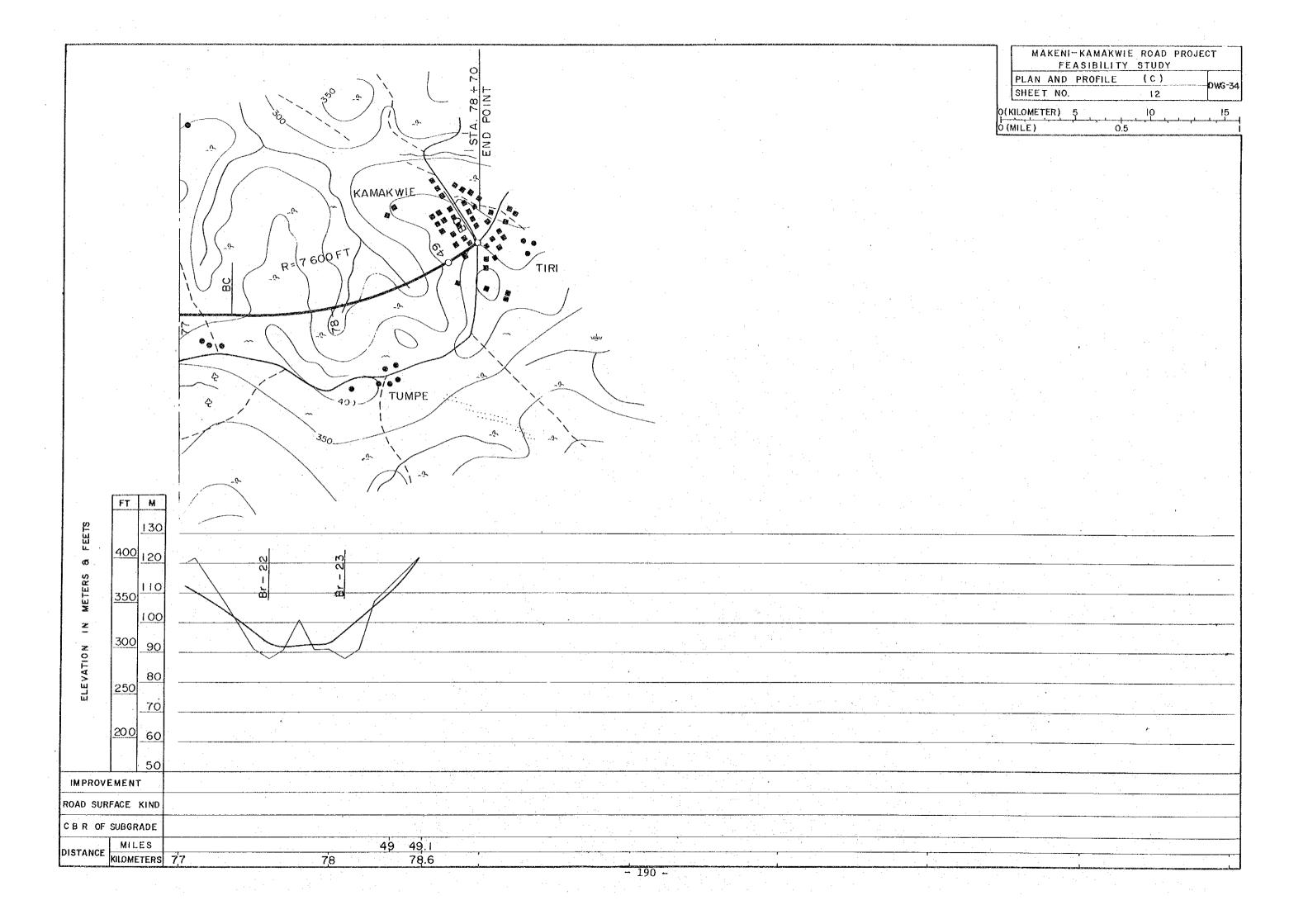


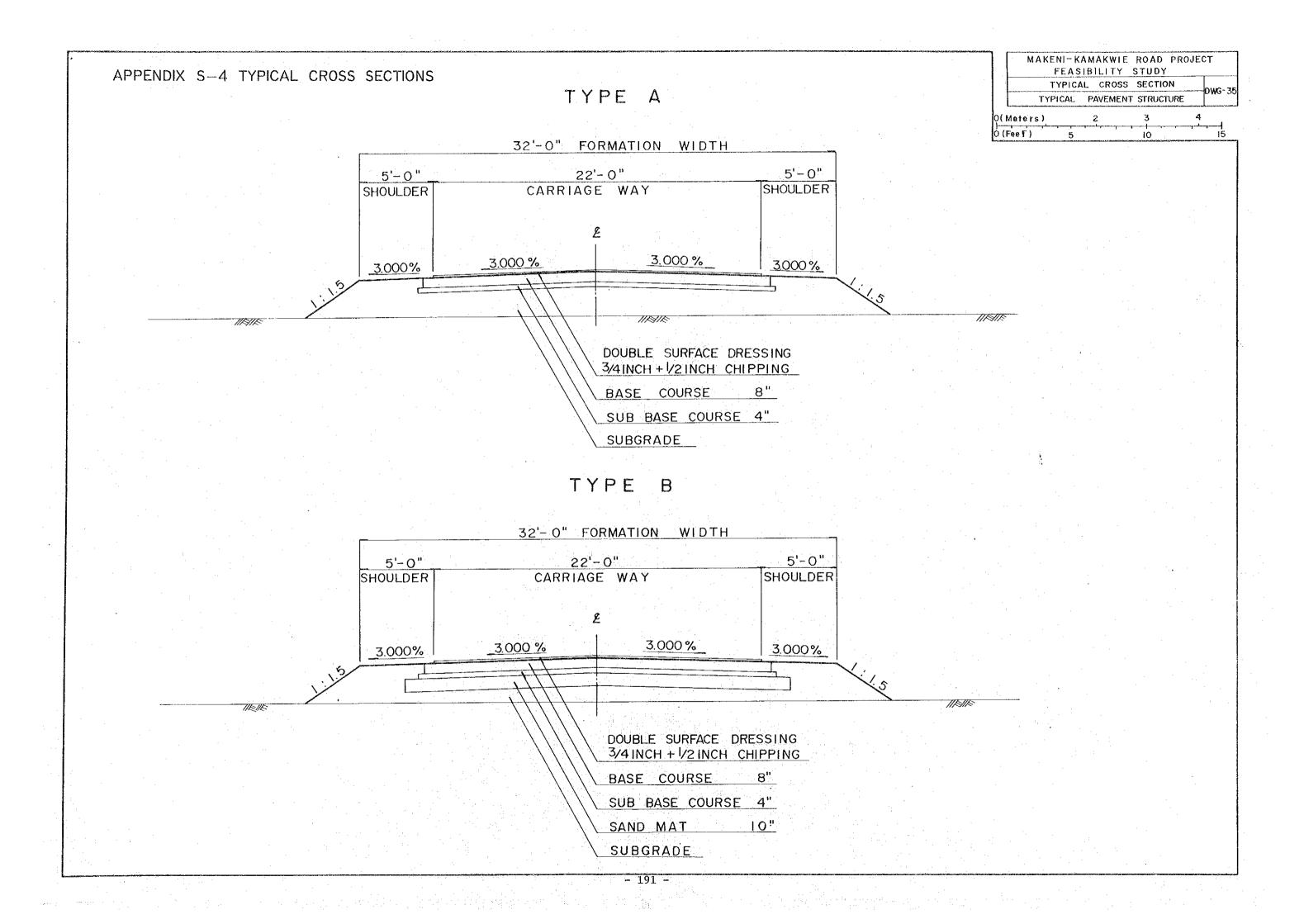


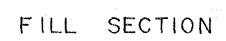


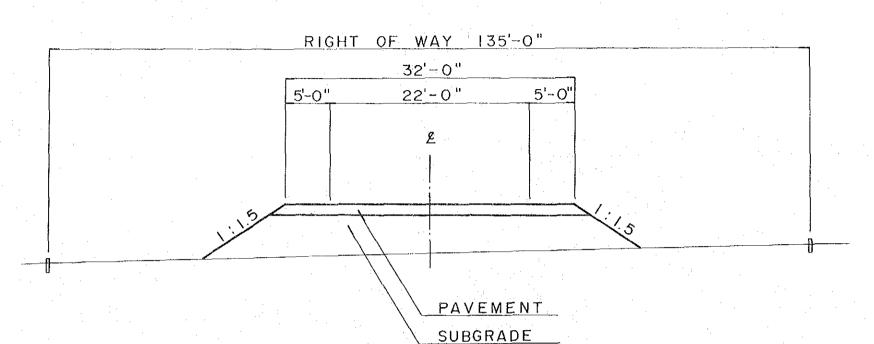




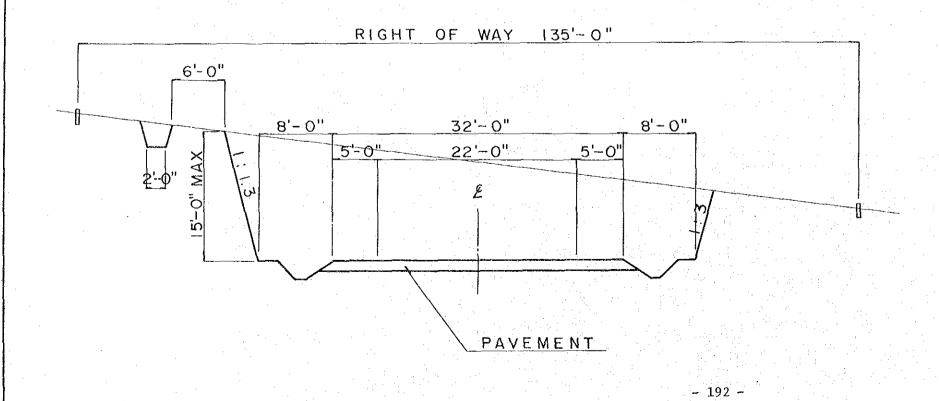






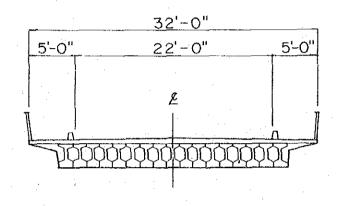


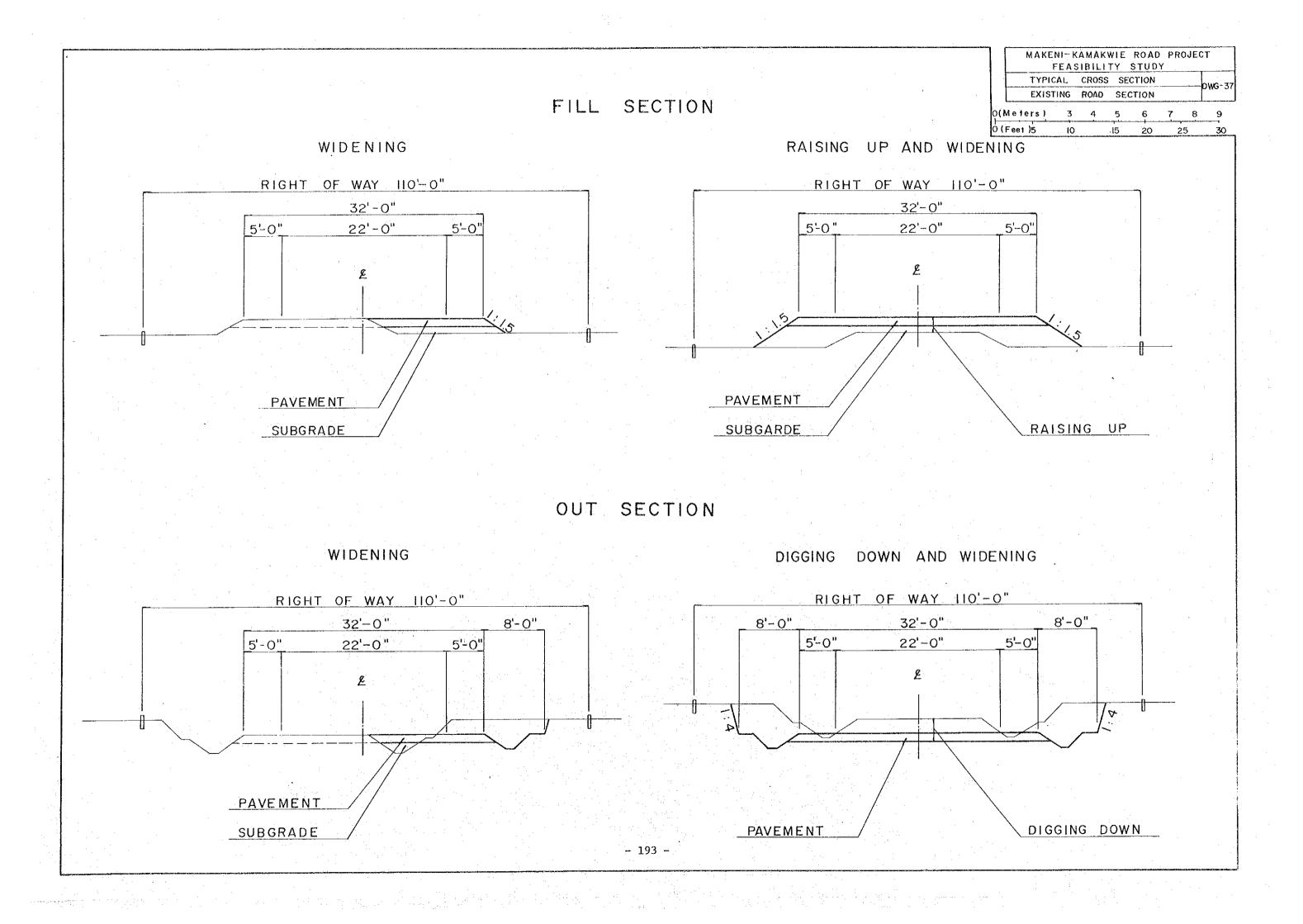
# CUT SECTION

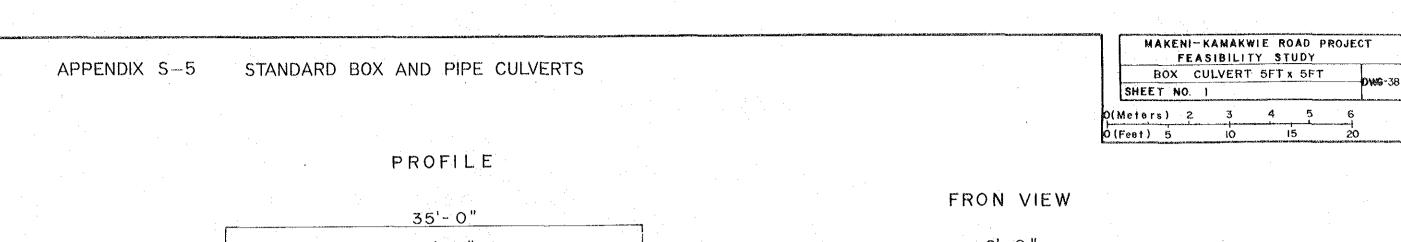


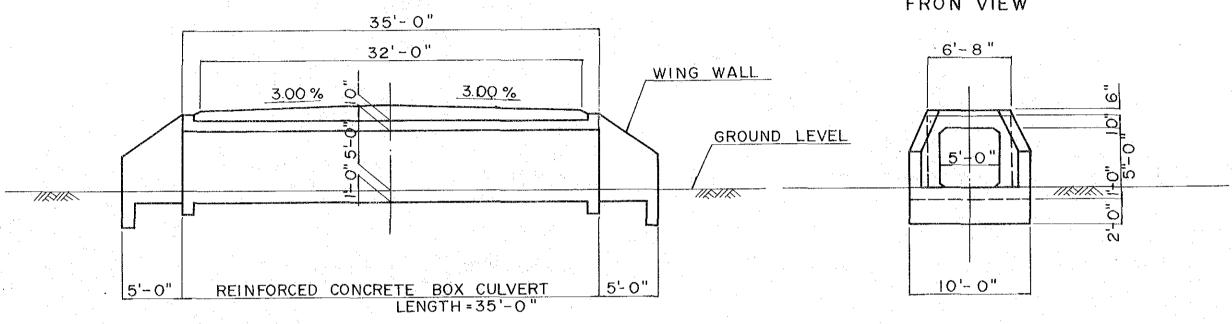
MAKEN			-	ROAD		OJE	CT
TY	PICA	L C	ROSS	SECT	ION		DWG-36
NEW	CO	NSTR	UCTIO	N SEC	TION		l
(Meters)	3	4	-5	6	7	8	9
(Feet )5	10		15	20		25	30

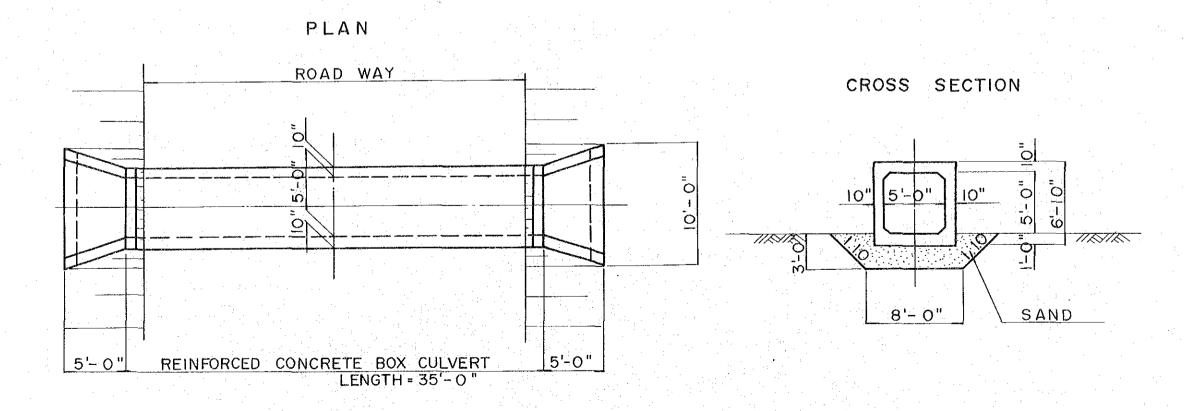
## BRIDGE SECTION

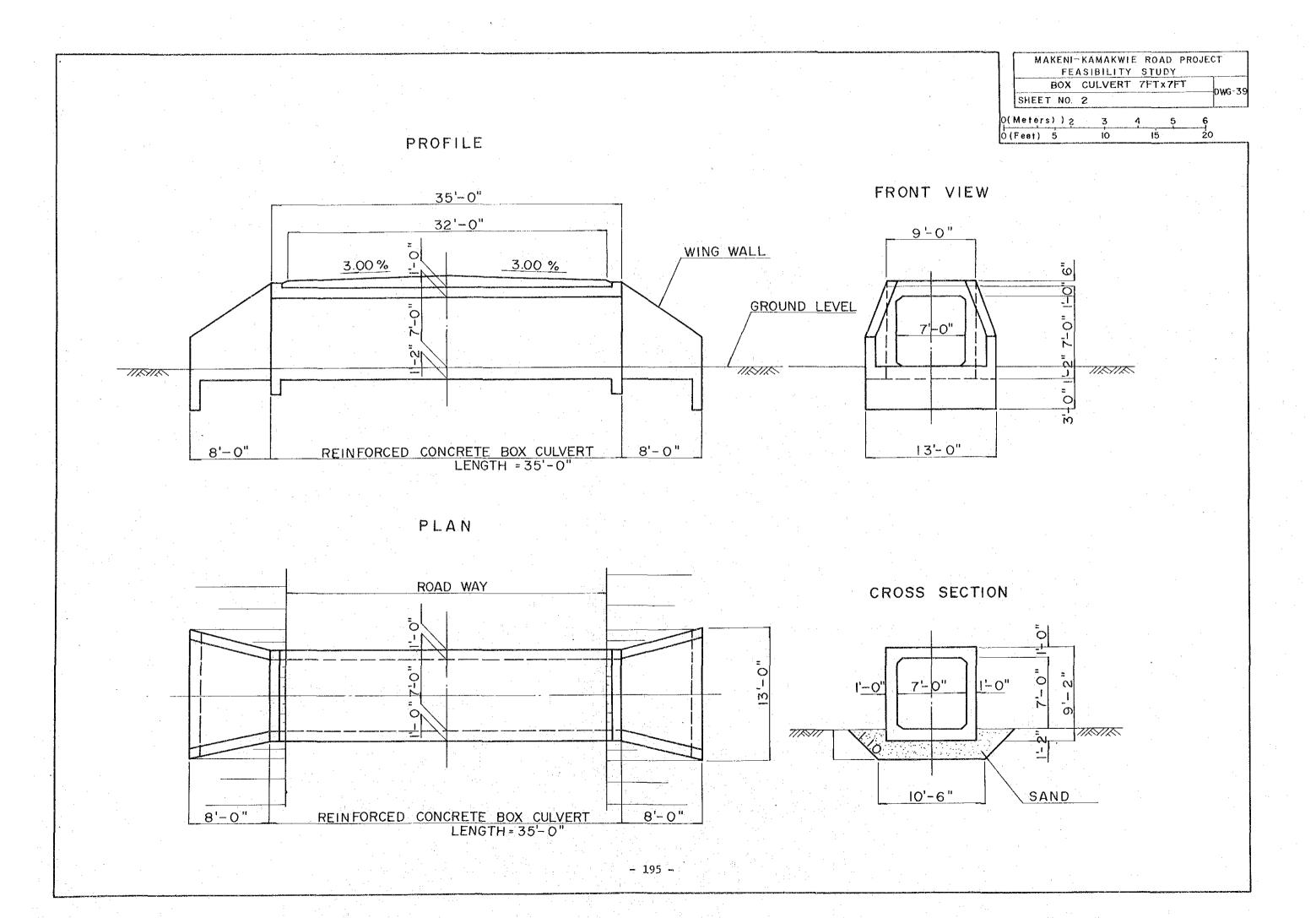


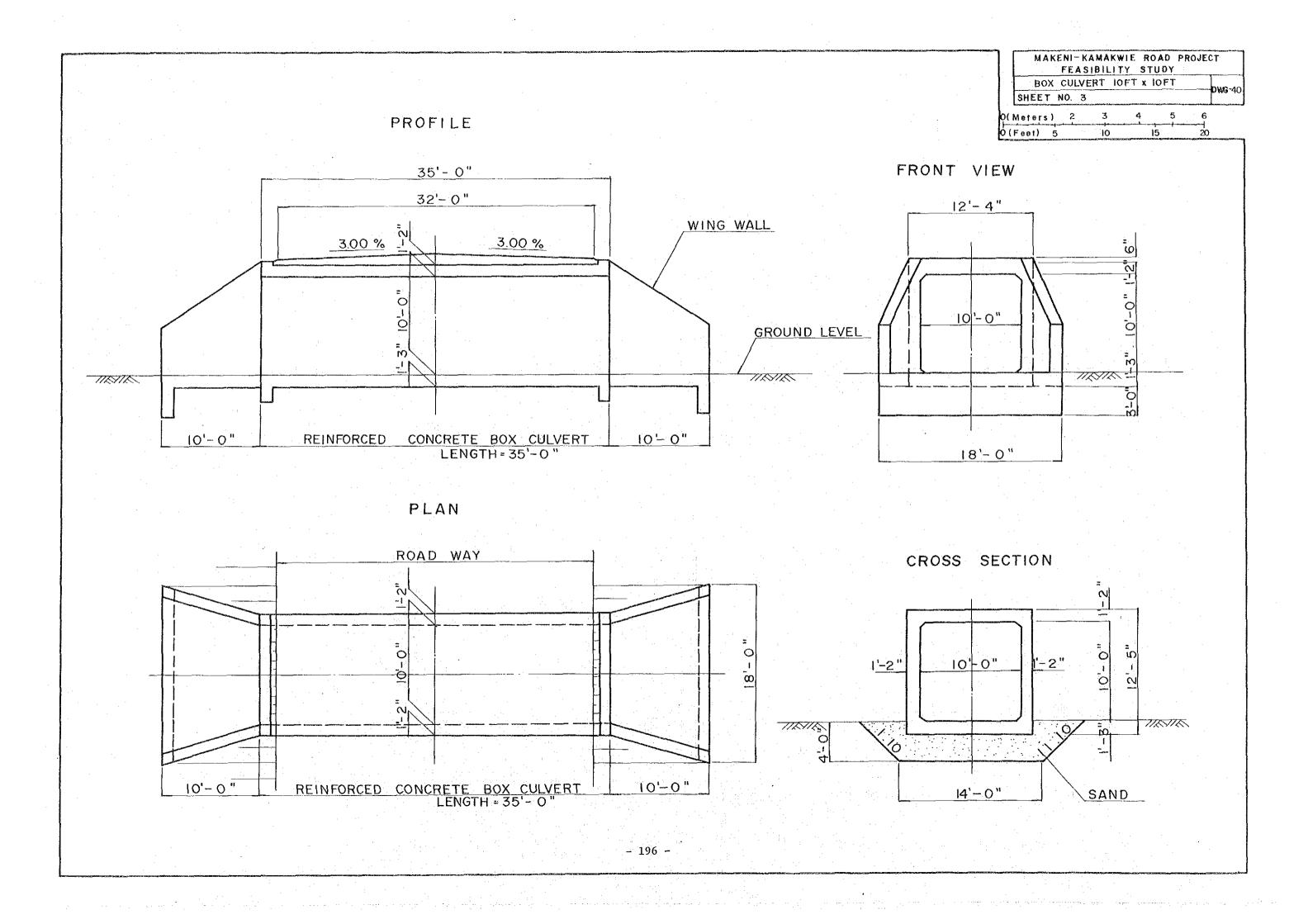


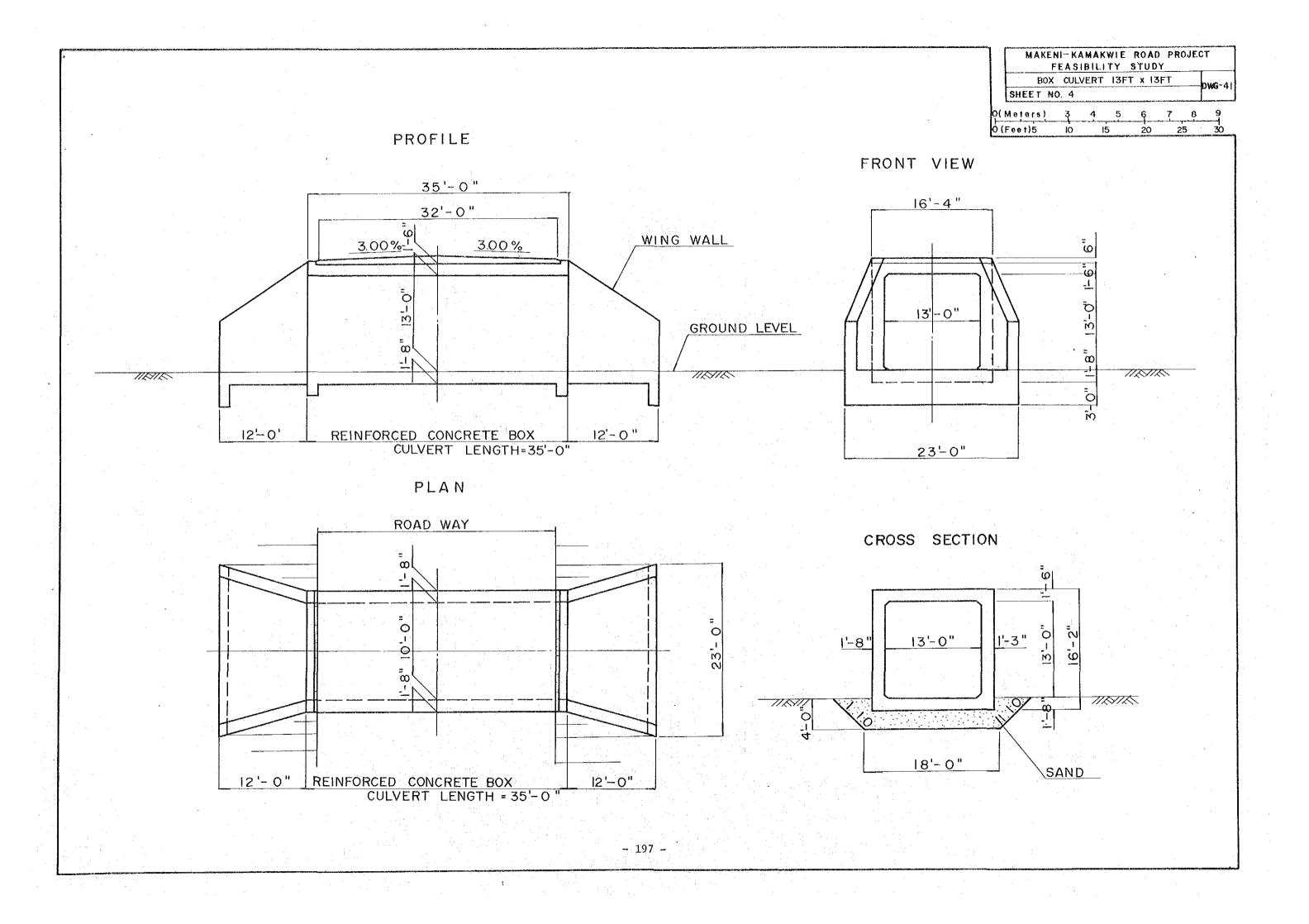


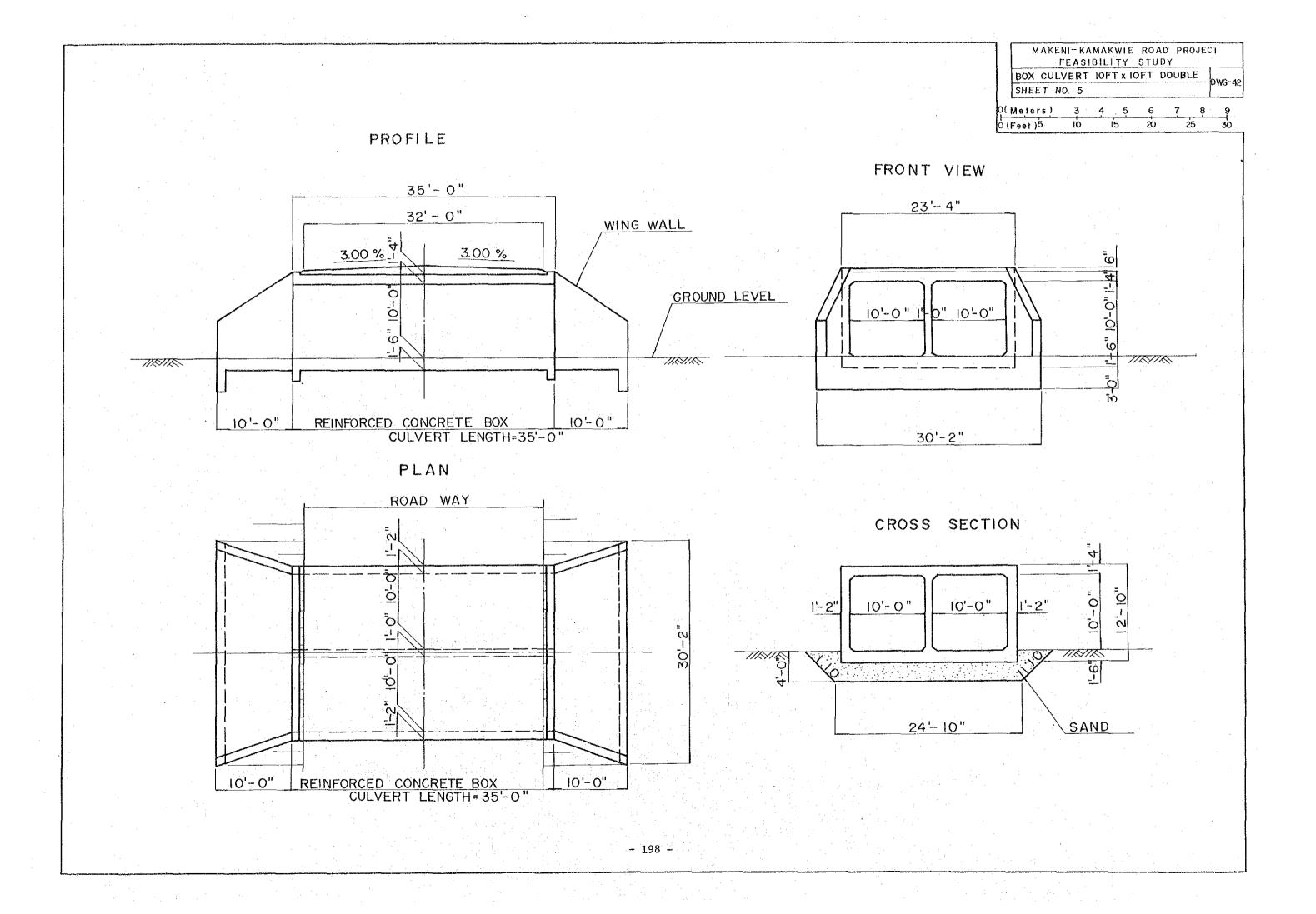


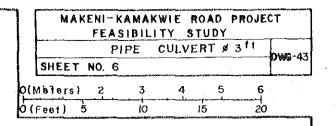




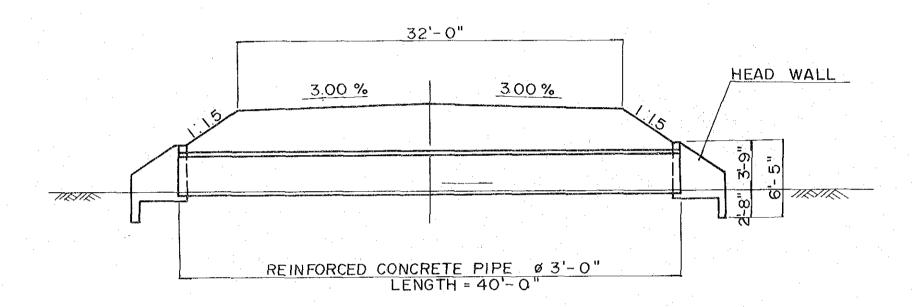




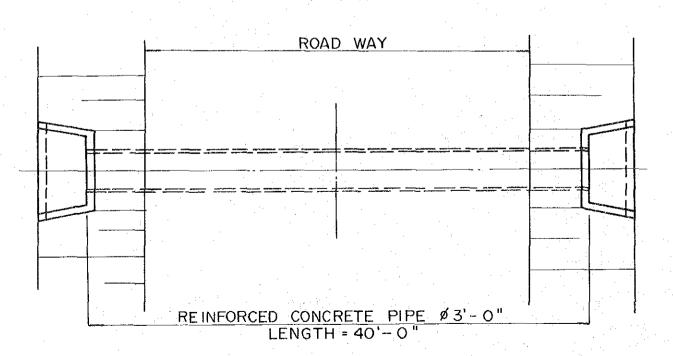




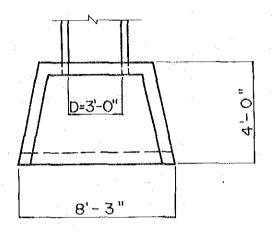
## PROFILE



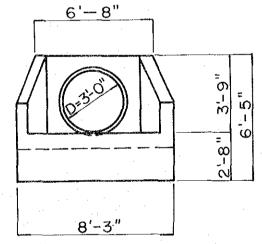
PLAN



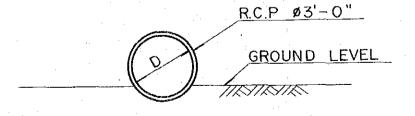
HEAD WALL

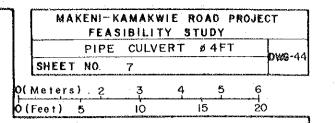


FRONT VIEW

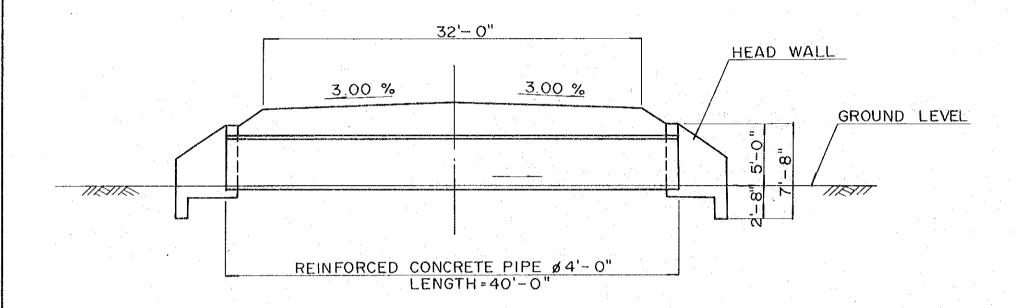


CROSS SECTION

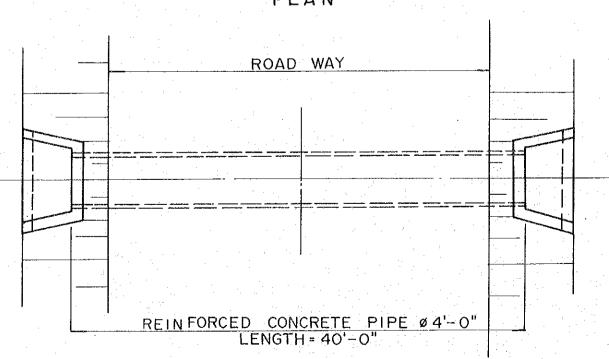




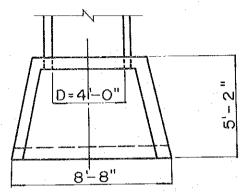
#### PROFILE



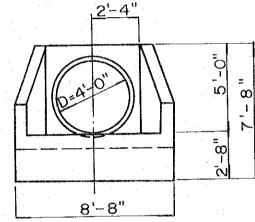
PLAN



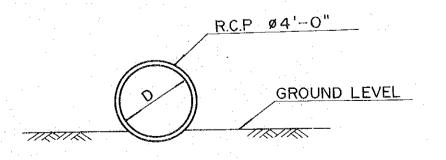
HEAD WALL

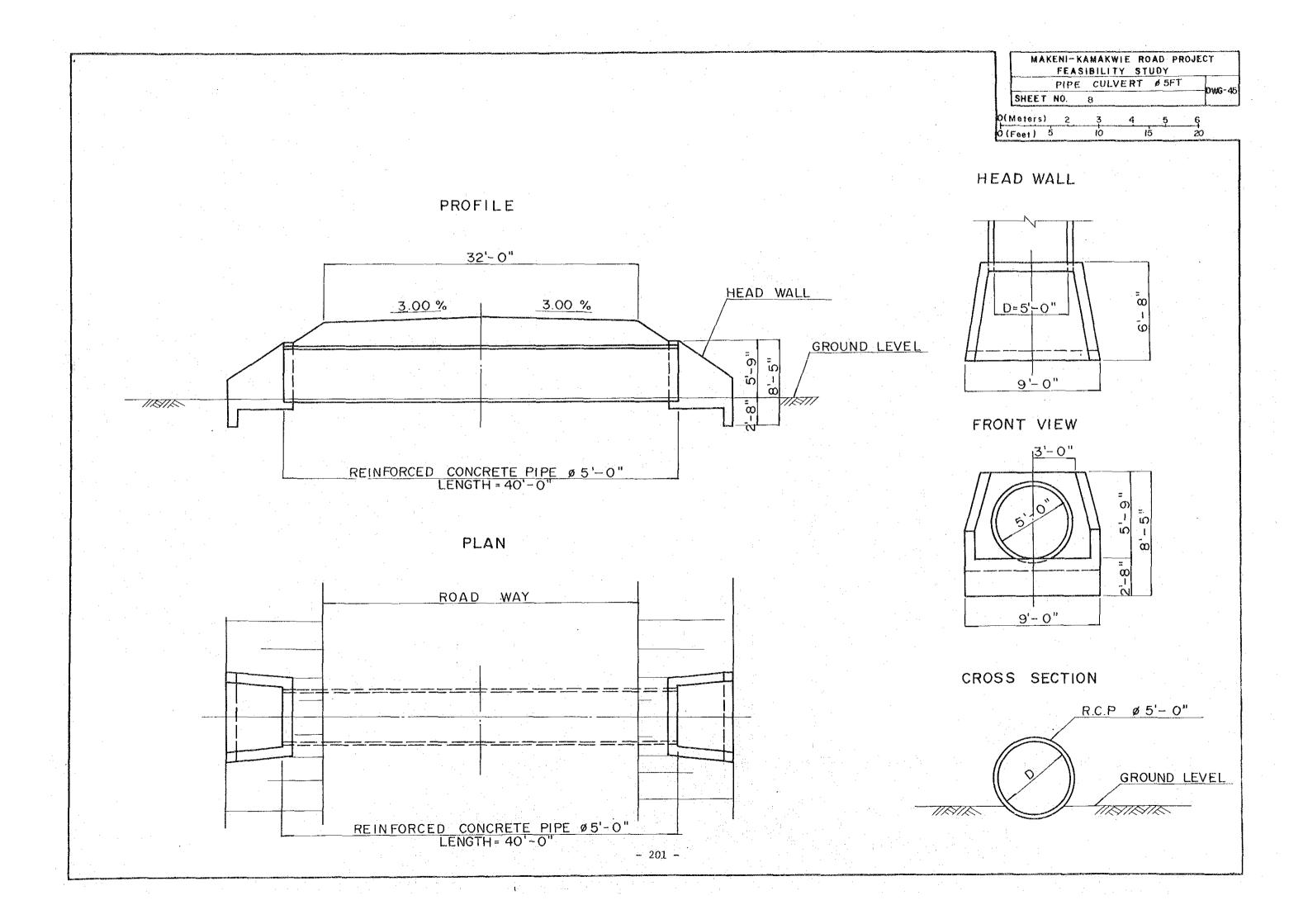


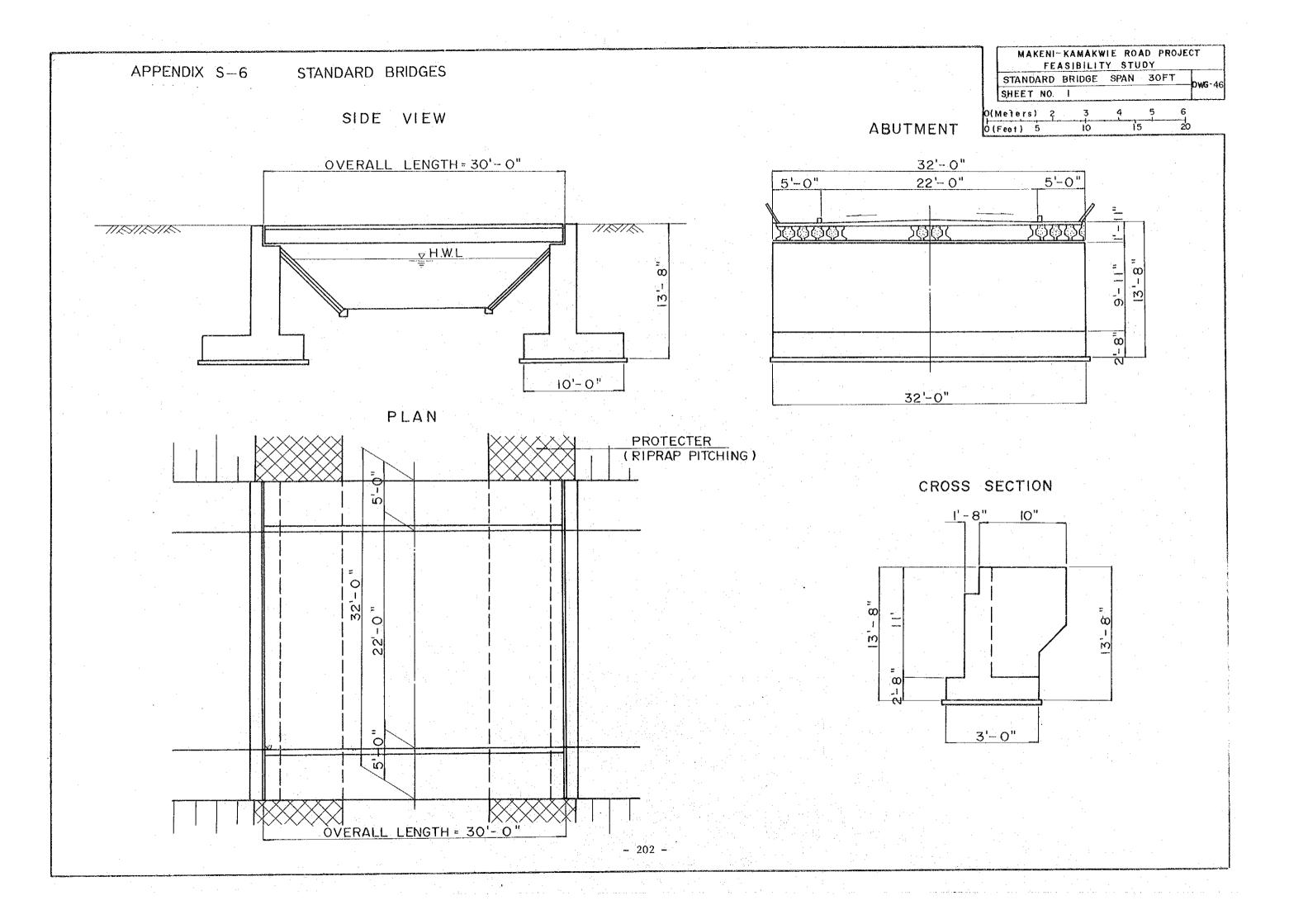
FRONT VIEW

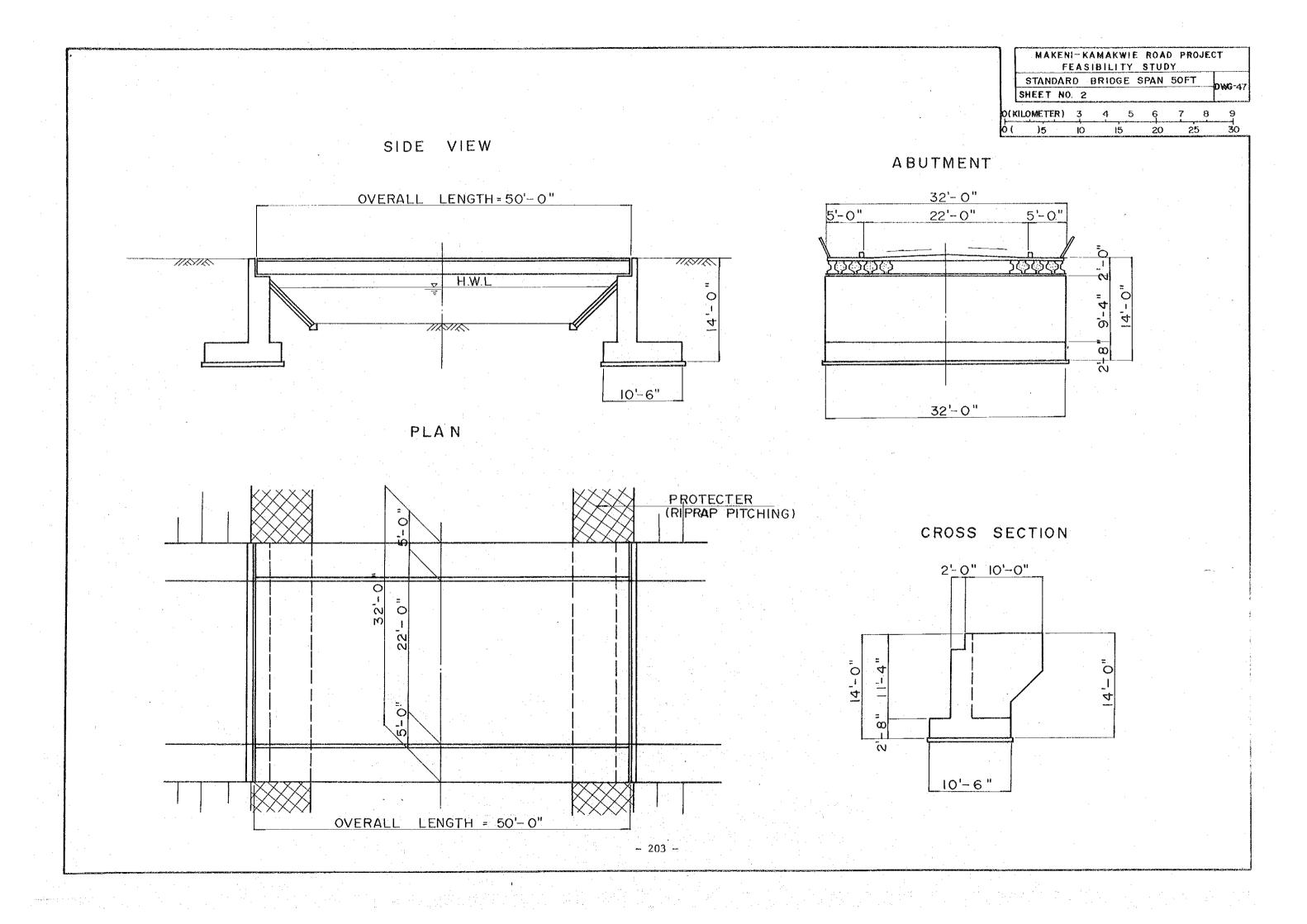


CROSS SECTION



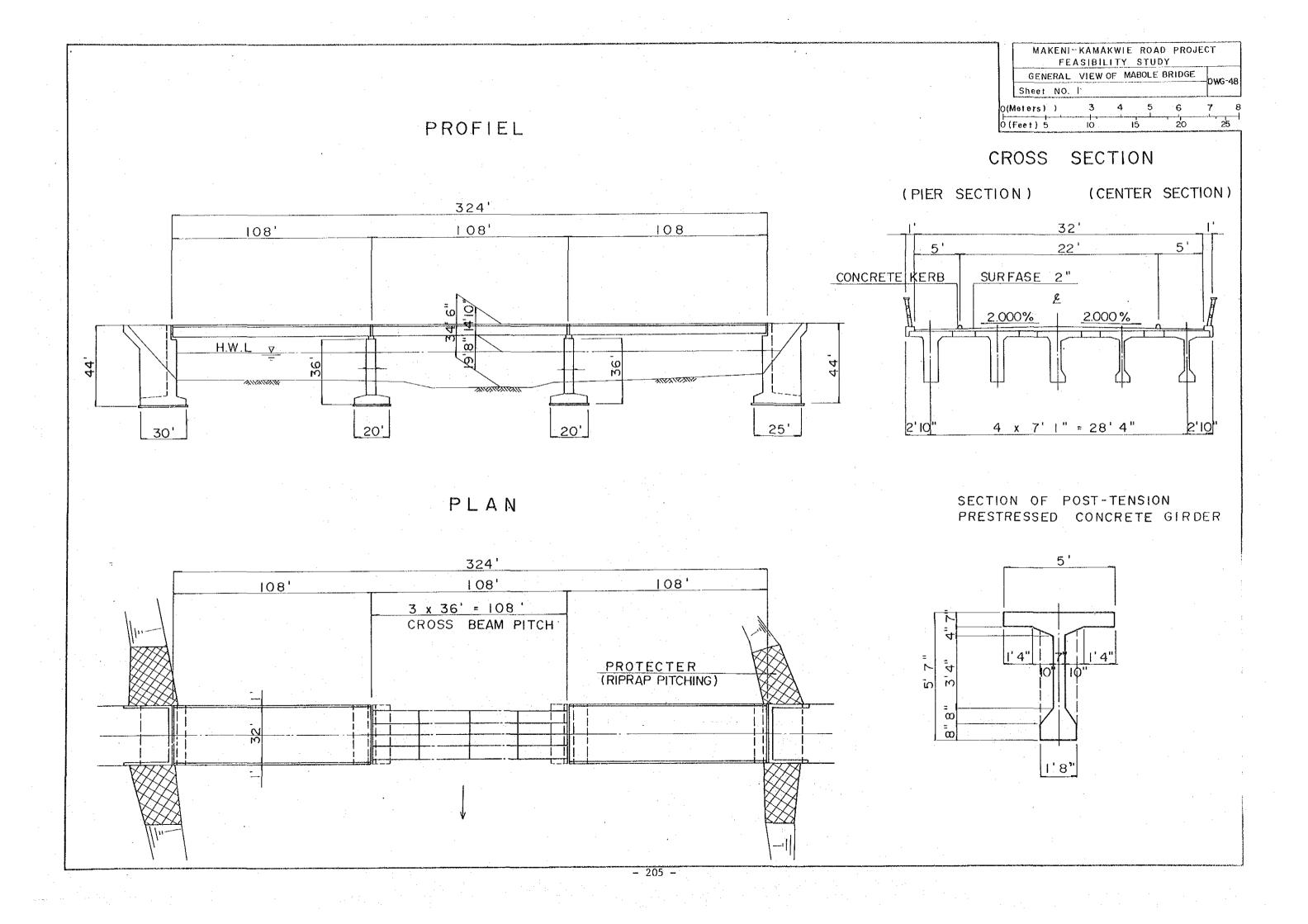






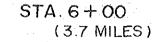
APPENDIX S-7 ALTERNATIVE PLAN AND GENERAL VIEW OF MOBOLE BRIDGE

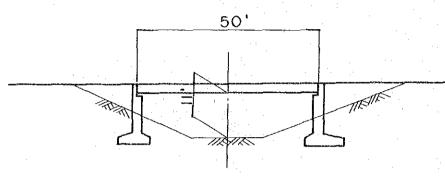
Type of Bridge	Cross Section of Bridge	Structure	Work Item	Bill of Quantities	Direct Construction Cost
					Le.
Post-tension	1'-0" 32'-0" 1'-0"	Superstructure	· 	1,152 Sq.Yd	403,680
concrete girder	5'-0" 22'-0" 5'-0"	Substructure			
bridge	Surface 2"	Abutment	Reinforced concrete	420 Cu.Yd	68,040
			Excavation	1,260 Cu.Yd	2,280
			Temporary work		26,880
	27"	Pier	Reinforced concrete	470 Gu.Yd	76,080
			Excavation	990 Cu.Yd	1,800
	$2^{-10^{11}} \qquad 4 \times 7^{-1}^{1} = 28^{-4^{11}} \qquad 2^{-10^{11}}$		Temporary work		30,120
		Total			608,880
					Le.
Composed steel	<u>1'-0"</u>	Superstructure	_	1,152 Sq.Yd	489,360
girder bridge	5'-0" 22'-0" 5'-o"	Sub-structure			
	Surface 2"  R.C.Slab 8"	Abutment	Reinforced concrete	371 Cu.Yd	59,800
			Excavation	1,061 Cu.Yd	1,920
			Temporary work	<del>-</del>	22,200
	21-31	Pier	Reinforced concrete	424 Cu.Yd	68,350
			Excavation	875 Cu.Yd	1,580
	$3'-3''$ $3 \times 9'-2'' = 27'-6''$ $3'-3''$		Temporary work	<u>-</u>	24,840
		Total			668,050



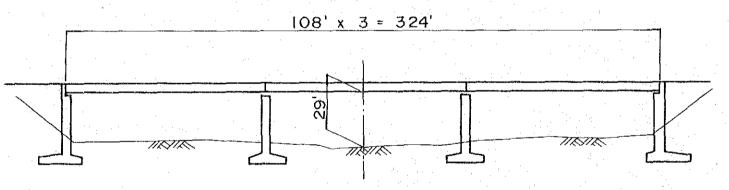


MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY
GENERAL VIEW OF BRIDGES:
SHEET NO. I

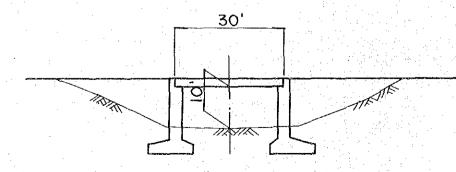




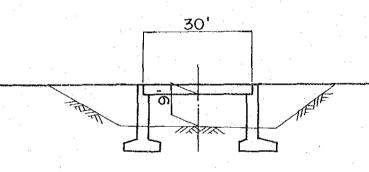
STA. 8 + 00 (5.0 MILES)



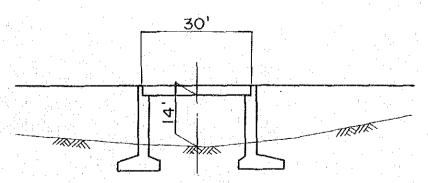
STA. | 3 + 20 (8.3 MILES)

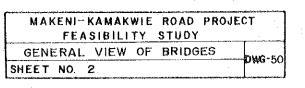


STA. 22+20 (13.9 MILES)

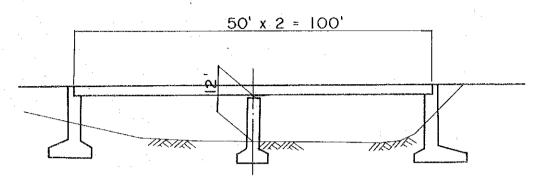


STA. 26+30 (16.4 MILES)

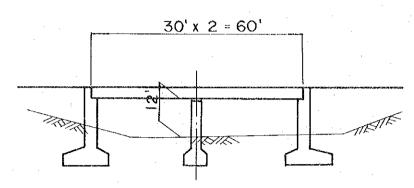




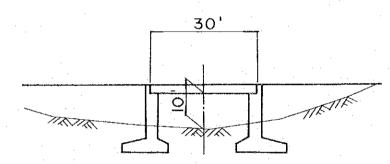
STA. 27+20 (17.0 MILES)



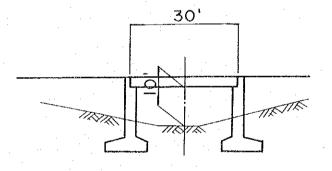
STA. 43 + 10 (26.6 MILES)



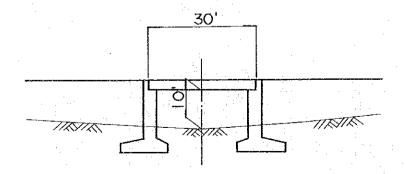
STA 34+00 (21.3 MILES)



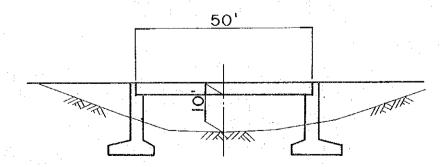
STA 45+40 (284 MILES)



STA. 35+10 (21.9 MILES)

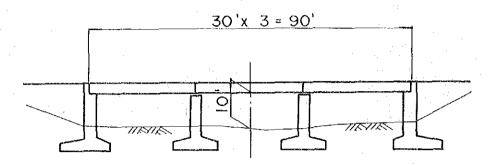


STA. 51+20 (32.0 MILES)

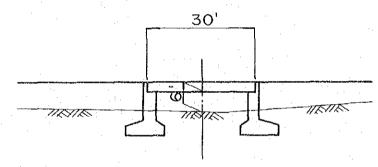


MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY
GENERAL VIEW OF BRIDGES
SHEET NO. 3

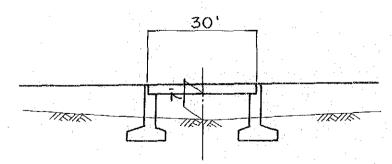
STA. 60 + 30 (37.7 MILES)



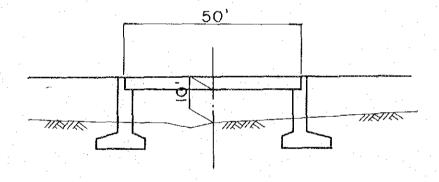
STA. 64 + 10 (40.0 MILES)



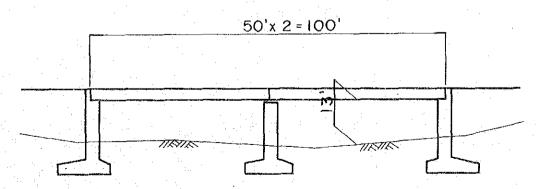
STA. 64+80 (40.5 MILES)

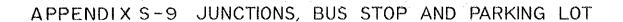


STA. 67+00 (41.90 MILES)



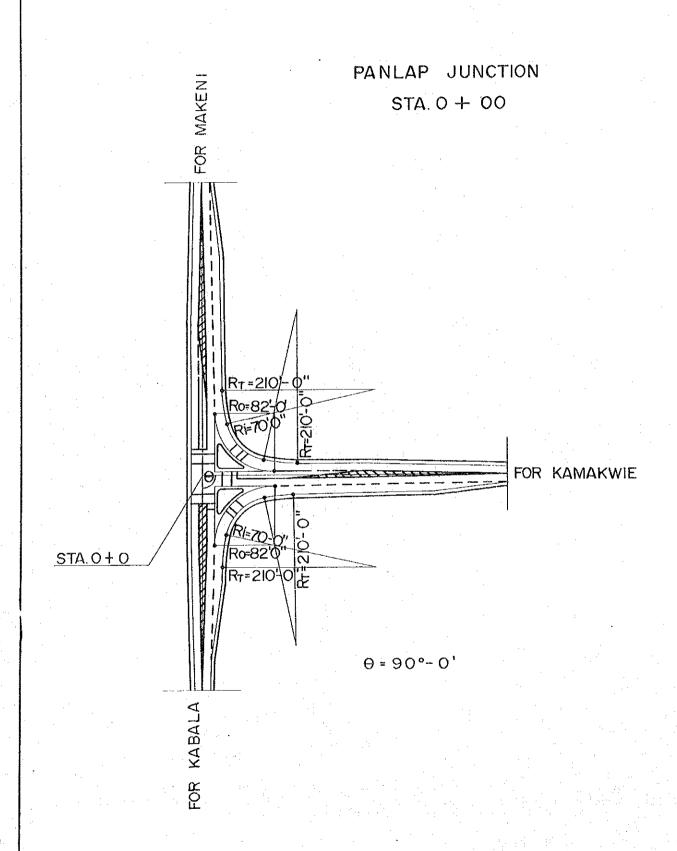
STA. 74 + 20 (46.4 MILES)

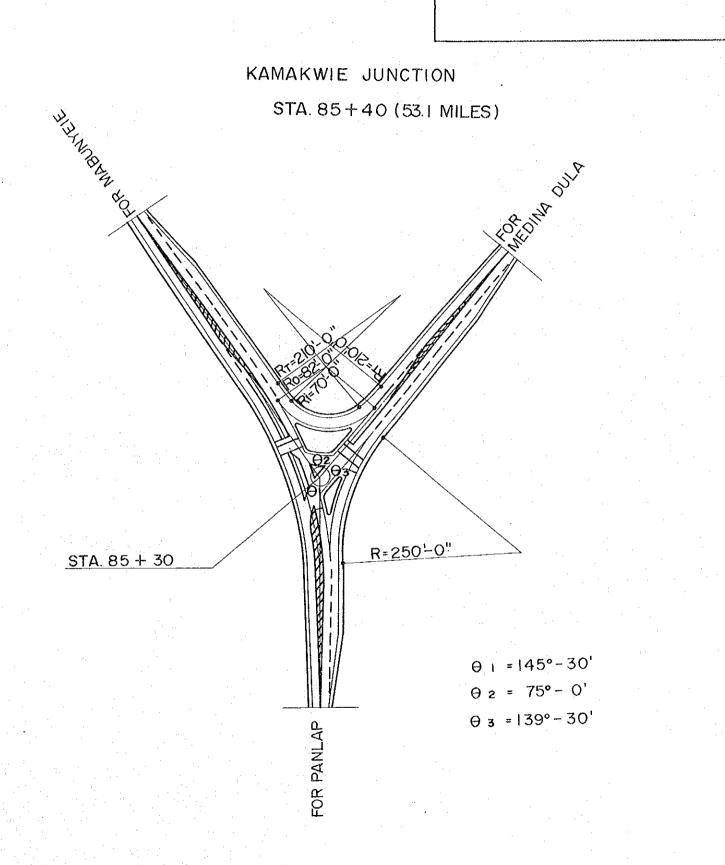


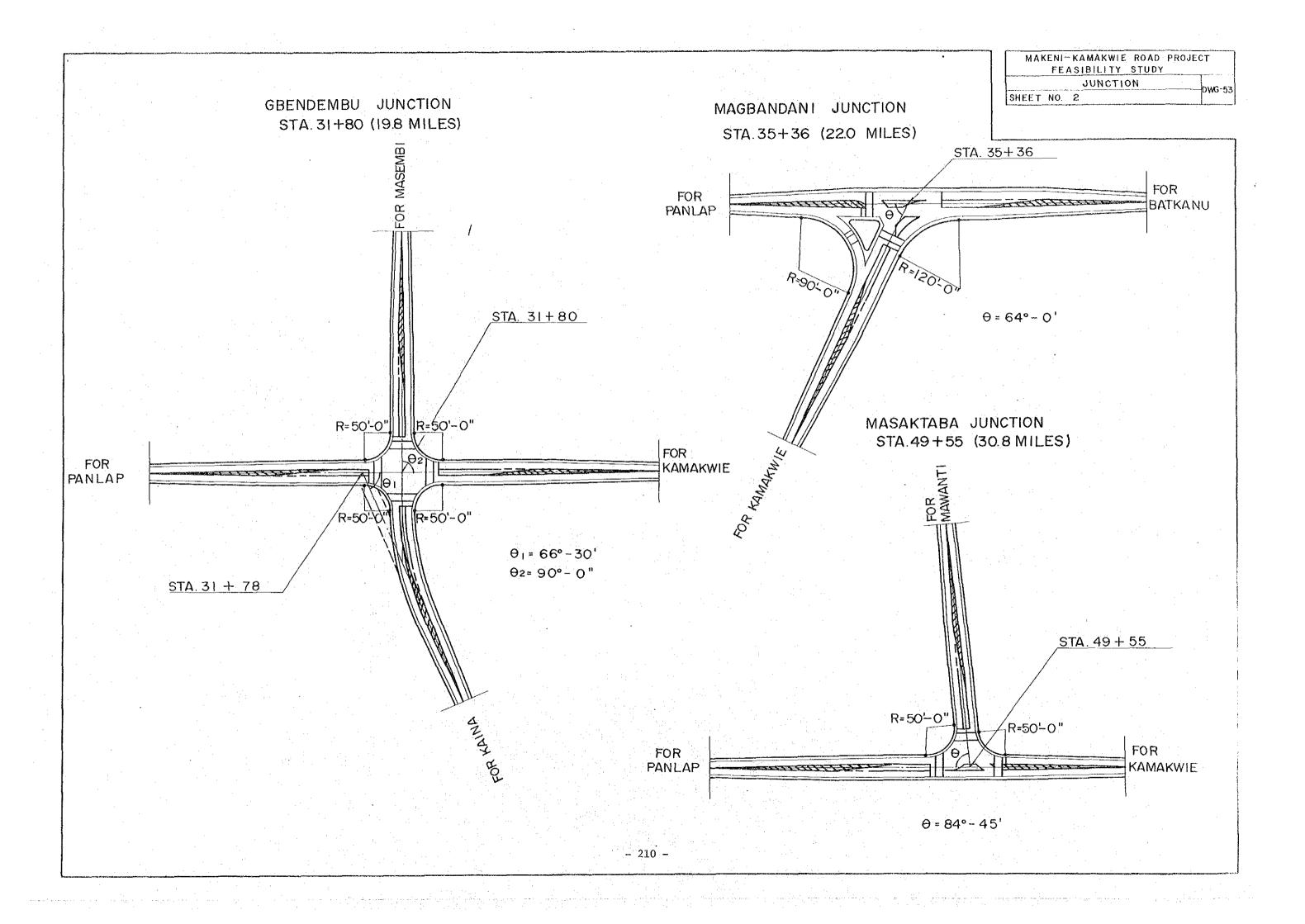


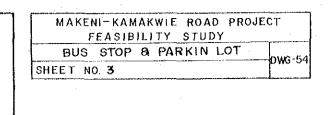
MAKENI-KAMAKWIE ROAD PROJECT
FEASIBILITY STUDY

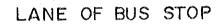
JUNCTION
SHEET NO. I

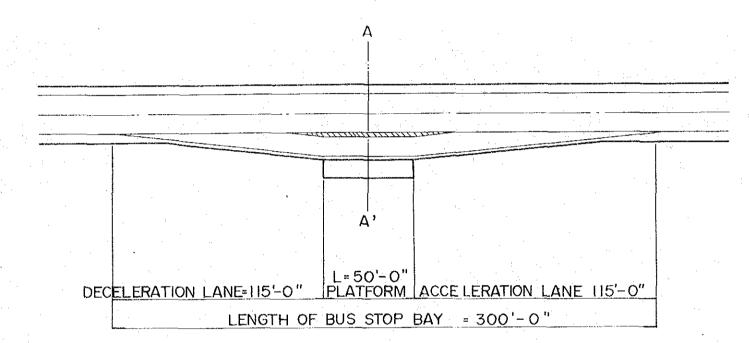




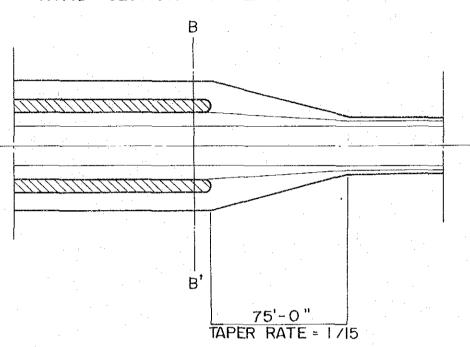




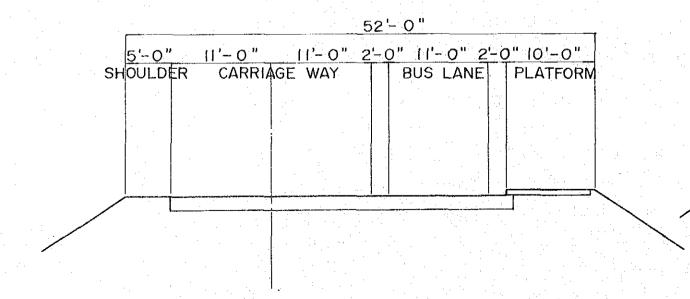




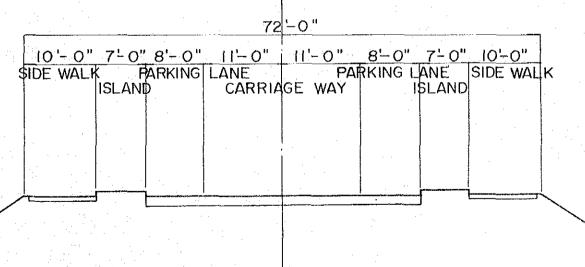
## ROAD SECTION FOR DENSE-POPULATED AREA



## SECTION A - A



## SECTION B-B



APPENDIX T-1 PRELIMINARY ESTIMATE OF FINANCIAL AND ECONOMIC CONSTRUCTION COSTS

1. Calculation of Direct Construction Cost for Alternative Plan A in 1978

Unit : Le. 1000

	Unit	Bill	Unit		·	Financ	ial Cost	· <del></del>	<del>va</del>	1	omic	и: ве Lab	our
Work Item	of	of	Price	Loc	al	For	eign	То	tal	Co	st	Со	st
	Quantity	Quantity	(Le)	Rate	Cost	Rate	Cost	Rate	Cost	Rațe	Cost	Rate	Cost
Construction work													
Earth work										-			
Site Clearance & Grubbing	Acre	50	468.0	5.0	1.2	95.0	22.2	1.00	23.4	68.0	15.9	2.8	0.7
Fell trees 2 ft. dia.	Sq.yd	35,000	1.2	100.0	42.0	0	_	11	42.0	20.0	8.4	80.0	33.6
Strip top soil	Sq.yd	99,600	0.4	33.5	13.3	66.5	26.5	71	39.8	69.0	15.0	2.5	1.0
Soil excavation	Cu.yd	1,005,200	1.4	8.0	112.6	92.0	1,294.7	11	1,407.3	65.0	914.7	8.0	112.6
Excavation of rippable rock	Cu.yd	3,300	2.9	5.0	0.5	95.0	9.1	11	9.6	67.0	6.4	4.2	. 0.4
Embankment	Cu.yd	606,000	5.6	10.0	339.4	90.0	3,054.2	11	3,393.6	65.0	2,205.8,	8.3	281.7
Riprap slope protection	Sq.yd	195,700	0.2	100.0	39.1	· <b>-</b>		11	39.1	20.0	7.8	80.0	31.3
Side ditch	ft.	78,300	0.6	100.0	47.0	0		, 0	47.0	20.0	9.4	80.0	37.6
Culvert work									·				
Pipe culvert 3 ft. dia.	ft.	6,798	56.4	32.0	122.9	68.0	260.5	1.00	383.4	70.0	268.4	9.7	37.2
Pipe culvert 4 ft. dia.	ft.	105	93.6	31.5	3.0	68.5	6.8	n	9.8	72.4	7.1	9.2	0.9
Pipe culvert 5 ft. dia.	ft.	63	130.8	28.0	2.3	72.0	5.9	11	8.2	70.7	5.8	8.5	0.7
Box culvert 5 ft. x 5 ft.	ft.	33	151.2	48.0	2.4	52.0	2.6	11	5.0	68.0	3.4	16.0	0.8
Box culvert 7 ft. x 7 ft.	ft.	333	212.4	45.8	32.4	54.0	38.3	11	70.7	68.0	48.1	15.9	11.2
Box culvert 10 ft. x 10 ft.	ft.	675	345.6	45.0	105.0	55.0	128.3	. 9	233.3	68.0	158.4	15.5	36.2
Box culvert 13 ft. x 13 ft.	ft.	249	606.0	40.0	60.4	60.0	90.5	11	150.9	68.0	102.6	14.0	21.1
Box culvert 10 ft. x 10 ft. Double	ft.	33	639.6	42.2	8.9	57.8	12.2	11	21.1	68.0	14.3	14.5	3.1
Bridge work													
30 ft. Span Bridge	Sq.yd	1,345	281.5	41.3	156.4	58.7	222.2	1.00	378.6	69.2	261.9	13.2	50.1
50 ft. Span Bridge	Sq.yd	1,380	340.7	41.3	194.2	58.7	276.0	i ii	470.2	69.2	325.2	13.2	62.1
Mabole Bridge	Sq.yd	1,152	528.6	41.3	251.5	58.7	357.4	n 7	608.9	69.2	421.2	13.2	80.4
n diameter and	Cartal	673,300	8.1	30 5	2,154.2	60.5	3,299.5	1.00	5,453.7	79.7	4,346.6	2.2	120.0
Pavement work	Sq.yd	0/3,300	0.1	37.5	4,194.6	00.5	,,2,,,,	1.00	J,4JJ./	12.1	7,540.0	2.2	120.0
								11					
Miscellaneous work	_	la distribution in the second		29.0	185.5	71.0	454.2	1.00	639.7	72.0	460.7	7.1	45.4
ALDOCAL ARCHITECTURE (CARACTER)				127.0		, , , ,							42.4
												·	
Total				28.8	3,874.2	71.2	9,561.1	1.00	13,435.3	71.5	9,607.1	7.2	968.1

Source : JICA Mission.

Unit : Le. 1000

			·								U	nit : Le	. 1000
	Unit	Bill	Unit			Financi	Lal Cost		•	i	nomic	1 .	bour
Work Item	of	of		1	ca1	For	reign	To	tal	Ć	Cost	Co	ost
•	Quantity	Quantity	Price	Rate	Cost	Rate	Cost	Rate	Cost	Rate	Cost	Rate	Cost
Construction work													
Earth work										•			
Site Clearance & Grubbing	Acre	45	468.0	5.0	1.1	95.0	20.0	1.00	21.1	68.0	14.3	2.8	0.6
Fell trees 2 ft. dia.	Sq.yd	34,000	1.2	100.0	40.8	0	0	11	40.8	20.0	8.2	80.0	32.6
Strip top soil	Sq.yd	80,600	0.4	33.5	10.8	66.5	21.4	11	32.2	69.0	22.2	2.5	0.8
Soil excavation	Cu.yd	867,800	1.4	8.0	97.2	92.0	1,117.7	11	1,214.9	65.0	789.7	8.0	97.2
Excavation of rippable rock	Cu.yd	3,300	2.9	5.0	0.5	95.0	9.1	11	9.6	67.0	6.4	4.2	0.4
Embankment	Cu.yd	556,300	5.6	10.0	311.5	90.0	2,803.8	11	3,115.3	65.0	2,024.9	8.3	258.6
Riprap slope protection	Sq.yd	176,300	0.07	100.0	12.3	0	0	13	12.3	20.0	2.5	82.0	10.1
Side ditch	ft.	70,800	0.6	100.0	42.5	0	0	†1	42.5	20.0	8.5	80.0	34.0
Culvert work												1	
Pipe culvert 3 ft. dia.	ft.	6,798	56.4	32.0	122.7	68.0	260.7	1.00	383.4	70.0	268.4	9.7	37.2
Pipe culvert 4 ft. dia.	ft.	105	93.6	31.5	3.1	68.5	6.7	11	9.8	72.4	7.1	9.2	0.9
Pipe culvert 5 ft. dia.	ft.	63	130.8	28.1	2.3	72.0	5.9	11	8.2	70.7	5.8	8.5	0.7
Box culvert 5 ft. x 5 ft.	ft,	33	151.2	48.0	2.4	52.0	2.6	11	5.0	68.0	3,4	16.0	0.8
Box culvert 7 ft. x 7 ft.	ft.	333	212.4	46.0	32.5	54.0	38.2	11	70.7	68.0	48.1	15.9	11.2
Box culvert 10 ft. x 10 ft.	ft.	675	345.6	45.0	105.0	55.0	128.3	11	233.3	68.0	158.6	15.5	36.2
Box culvert 13 ft. x 13 ft.	ft.	249	606.0	40.0	60.4	60.0	90.5	11	150.9	68.0	102.6	14.0	21.1
Box culvert 10ft.x10ft. Double	ft.	33	639.6	42.2	8.9	57.8	12.2	11	21.1	68.0	14.3	14.5	3.1
Bridge work													
30 ft. Span bridge	Sq.yd	1,345	281.5	41.3	156.4	58.7	222.2	1.00	378.6	69.2	262.0	13.2	50.0
50 ft. Span bridge	Sq.yd	1,380	Ī	41.3	194.2	58.7	276.0	11	470.2	69.2	325.4	13.2	62.1
Mabole bridge	Sq.yd		528.6		_			Ĥ	_		_		-
Pavement work	C	664,200	7.0	39.5	2 0/0 5	60.5	2 120 2	1 00	5,188.7	70 5	, 105.0	2.2	119.3
ravement work	Sq.yd	004,200	7.8	39.3	2,049.5	60.5	3,139.2	1.00	3,100.7	79.5	4,125.0	2.3	119.3
										÷			
Miscellaneous work	ļ., , l				162.7		407.7		570.4	71.9	409.9	6.8	38.8
			+ +,									1:	
			: :										
Tota1				28.5	3,416.7	71.5	8,562.2	1.00	11,978.9	71.9	8,607.3	6.8	815.7

Source : JICA Mission.

## 3. Calculation of Direct Construction Cost for Alternative Plan B at Stage 2 in 1978

Unit : Le. 1000

	Unit	Bill	Unit			Financ	ial Cost				omic	Labo Cos	
Work Item	of	of	Price	Loc	al	For	eign	T	otal	Со	St.	COS	· L
	Quantity	Quantity	(Le)	Rate	Cost	Rate	Cost	Rate	Cost	Rate	Cost	Rate	Cost
Construction work	:										:		
Earth work										٠			
Site Clearance & Grubbing	Acre	6	468.0	5.0	0.1	95.0	2.7	1.00	2.8	68.0	1.9	2.8	0.1
Fell trees 2 ft. dia.	Nos.	4,200	1.2	100.0	5.0	0	0	11	5.0.	20.0	1.0	80.0	4.0
Strip top soil	Sq.yd	39,000	0.4	33.5	5.2	66.5	10.4	11	15.6	69.0	10.8	2.5	0.4
Soil excavation	Cu.yd	206,000	1.4	8.0	23.1	92.0	265.3	17	288.4	65.0	187.5	8.0	23.1
Excavation of rippable rock	Cu.yd	-	2.9	0	_	0		11					_
Embankment	Cu.yd	113,000	5.6	10.0	63.3	90.0	569.5	l n	632.8	65.0	411.3	8.3	52.5
Rip rap slope protection	Sq.yd	34,800	0.2	100.0	7.0	0		- 11	7.0	21.4	1.5	82.0	5.7
Side ditch	ft.	15,600	0.6	100.0	9.4	0		11	9.4	20.0	1.9	80.0	7.5
O. Janes Sanat						*							
Culvert work  Pipe culvert 3 ft. dia.	ft.	417	56.4	32.0	7.5	68.0	16.0	1.00	23.5	70.0	16.5	9.7	2.3
	ft.	51	93.6	31.5	1.5	68.5	3.3	11.00	4.8	72.4	3.5	9.2	0.4
	ft.	31	130.8	0	1.7	0	_	11	_			0	
Pipe culvert 5 ft. dia.  Box culvert 5 ft. x 5 ft.	ft.		151.2	0	_	0			-		-	0	_
	ft.		345.6	0 2	_	0		11				0	
			606.0	0	_	0		11				0	· —
	ft.	_	100	0		0	_	11				0	
Box culvert 10 ft. x 10 ft. Double	ft.	7	639.6	"		U				*	_		_
Bridge work		and the second										:	
30 ft. Span Bridge	Sq.yd	_	281.5	0	_	0	_	1.00			-	0	_
50 ft. Span Bridge	· ·	-	340.7	0	-	0	_	*1			-	0	_
Mabole Bridge	l u	1,152	528.6	41.3	251.5	58.7	357.4	11	608.9	69.2	421.2	13.2	80.5
			•	<u> </u>						. :			
Pavement work	Sq.yd	68,500	9.1	36.2	225.7	63.8	397.7	1.00	623.4	79.7	496.8	1.7	10.6
						i in the second				,			
									***************************************				
Miscellaneous work				31.1	30.0	68.9	81.1	1.00	111.1	72.0	80.0	□ 7.3	8.1
											<u> </u>		
Total				27.0	629.3	73.0	1,703.4	1.00	2,332.7	70.0	1,633.9	8.4	196.0

Source: JICA Mission.

## 4. Summary of Construction Cost in 1978

Unit : Le. 1000

Trem		A1:	ternative	Plan A	
rem	Finan	cial Cos	t .		
	Lo	Fo	То	Ec	La
Direct Construction Cost	3,874.2	9,561.1	13,435.3	9,607.1	968.1
Physical Contingency *1	193.7	478.1	671.8	480.4	48.4
Engineering & Administration					
Detailed Design *2	80.7	322.4	403.1	403.1	
Supervision *3	134.4	537.4	671.8	671.8	· -
Accommodation for Engineer *4	77.5	191.2	268.7	192.1	19.4
Price Contingency *5	387.4	956.1	1,343.5	• • • • • • • • • • • • • • • • • • •	- -
Total	4,747.9	12,046.3	16,794.2	11,354.5	1,035.9

	Note	:	Abb	revi	ati	on	"Lo	11	is	Local	Co	ost
							"Fo	11	is	Forei	gn	Cost
							"To	t I	is	Total	Co	ost
							"Ec	11 ;	ís	Econo	mio	e Cos
•							''La'	11	is	Labor	. (	Cost
	÷		*1	5%	of	di	rect	Co	nst	ructi	on	Cost
			*2	3%	of	di	rect	Co	nst	ructi	on	Cost
٠			*3	5%	of	di	rect	Cor	nst	ructi	on	Cost
			*4	2%	of	di	rect	Co	nst	ructi	on	Cost
			<b>*</b> 5	10%	of	di.	rect	Co	nst	ructi	on	Cost

Unit : Le. 1000

							A1	ternative	Plan B						
_			Stage 1	-				Stage	2				Total		
Item	Fi	nancial	Cost			Fi	nancial C	ost		- ;	Fina	ncial Cos	st.		
	Lo	Fo	To	Ec	La	Lo	Fo	То	Ec	La	Lo	Fo	То	Ec	La
Direct Construction Cost	3,416.7	8,562.2	11,978.9	8,607.3	815.7	629.3	1,703.4	2,332.7	1,633.9	196.0	4,046.0	10,265.6	14,311.6	10,241.2	1,011.7
Physical Contingency *1	170.8	428.1	598.9	430.4	40.8	31.5	85.2	116.7	81.7	9.8	202.3	513.3	715.6	, 512.1	50.6
								:							
Engineering & Administration		•						· ·				٠.		4	
Detailed Design *2	71.9	287.5	359.4	359.4	· <u> </u>	13.4	53.6	67.0	67.0	<del></del>	85.3	341.1	426.4	426.4	_
Supervision *3	119.8	479.1	598.9	598.9	· · ·	23.3	93.4	116.7	116.7	-	143.1	572.5	715.6	715.6	<del></del>
Accommodation for Engineer *4	68.3	171.2	239.5	172.1	16.3	12.6	34.1	46.7	32.7	3.9	80.9	205.3	286.2	204.8	20.2
•										•			:		
Price Contingency *5	341.7	856.2	1,197.9	- 11 - 12	- · ·	62.9	170.4	233.3	-		404.6	1,026.6	1,431.2	·	· _ ·
			e e e e e e e e e e e e e e e e e e e												*.
Total	4,189.2	10,784.3	14,973.5	10,168.1	872.8	77.3	2,140.1	2,913.1	1,932.0	209.7	4,962.2	12,924.4	17,886.6	12,100.1	1,082.5

Source : JICA Mission.

#### APPENDIX T-2 PRELIMINARY ESTIMATE OF MAINTENANCE COST

#### Preliminary Estimate for Maintenance Cost

#### 1. Unit Cost for Routine Maintenance Work

Unit: Le. Per mile per year

A contract of the contract of			
ADT Work items	Over 400	150 ~ 400	50 ~ 150
Surface	1233	237	80
Drainage	99	75	28
Road Side	89	54	51
Bridges	. 7	5	11
Other	28	21	14
Total	1456	392	184

Note: Unit cost in 1978.

Rate of cost increase is 5% each year.

Source : Roy Jorgenson, UNDP Technical Assistance for Highway Organization and Maintenance, proposed 4 year Highway Programme, Ministry of Works, Sierra Leone 1976.

#### 2. Unit Cost for Remedial Maintenance Work

	Unit : Le. Per mile
Work items	Cost
Resurfacing Add only	2191
Rehabilitation	2308
Reballast laterite shoulders	182
Re-excavate Side Drains	230
Total	4911

: Unit Cost in 1978.

Source : Maintenance Division, Ministry of Works

Sierra Leone.

#### 3. Average ADT for whole Project Road Section

Unit: Vehicle number

Year	1985	1990	1995	2000	2005	2010
ADT	157	201	257	325	408	506

Source : JICA Mission.

#### 4. Maintenance Cost for Alternative Plan A and B in 1978

Unit : Le. 1000

	Alternative Plan A			Alternative Plan B			
Year	Routine	Remedial	Total	Routine	Remedial	Total	
1987	20.8	<b>-</b>	20.8	20.8	–	20.8	
1988	20.8	ra ja	20.8	20.8		20.8	
1989	20.8		20.8	20.8	<del>-</del>	20.8	
1990	20.8	260.8	281.6	20.8	222.5	243.3	
1991	20.8	<u>-</u>	20.8	20.8	_	20.8	
1992	20.8	_	20.8	20.8		20.8	
1993	20.8	_	20.8	20.8	·	20.8	
1994	20.8		20.8	20.8	·	20.8	
1995	20.8	260.8	281.6	20.8	222.5	243.3	
1996	20.8	<b>-</b> -	20.8	20.8	_	20.8	
1997	20.8	_	20.8	20.8	· ·	20.8	
1998	20.8	· · · · ·	20.8	20.8	·	20.8	
1999	20.8		20.8	20.8	_	20.8	
2000	20.8	260.8	281.6	20.8	260.8	281.6	
2001	20.8		20.8	20.8	<u>-</u>	20.8	
2002	20.8	-	20.8	20.8	- ,	20.8	
2003	20.8	- ·	20.8	20.8		20.8	
2004	20.8		20.8	20.8	_	20.8	
2005	77.3	260.8	338.1	77.3	260.8	338.1	
2006	77.3	-	77.3	77.3	· -	77.3	
2007	77.3	-	77.3	77.3	<del>-</del>	77.3	
2008	77.3	11 A 💂	77.3	77.3	<del>-</del>	77.3	
2009	77.3	_	77.3	77.3		77.3	
2010	77.3	260.8	338.1	77.3	260.8	338.1	

Source: JICA Mission.

APPENDIX T-3 ESTIMATE OF ECONOMIC COST

Unit : Le 1000

	Alternative A Total Cost		Alternative B					
			Construction Cost		Maintenance	Total Cost		
	With Labour Cost	Without Labour Cost	With Labour Cost	Without Labour Cost	Cost	With Labour Cost	Without Labour Cost	
1983	4,398.9	4,053.6			_	3,919.9	3,629.0	
1984	3,995.8	3,650.5			_	3,560.5	3,269.6	
1985	3,995.8	3,650.5	e e e e e e e e e e e e e e e e e e e		_	3,560.5	3,269.6	
1986					_			
1987	20.8	20.8			20.8			
1988	20.8	20.8			20.8		•	
1989	20.8	20.8			20.8			
1990	281.6	281.6	. The		243.3			
1991	20.8	20.8			20.8			
1992	20.8	20.8			20.8			
1993	20.8	20.8			20.8		. · · · · · · · · · · · · · · · · · · ·	
1994	20.8	20.8			20.8			
1995	281.6	281.6	1,104.4	999.5	243.3	1,347.7	1,242.8	
1996	20.8	20.8	1,037.4	932.5	20.8	1,058.2	953.3	
1997	20.8	20.8			20.8			
1998	20.8	20.8			20.8			
1999	20.8	20.8			20.8			
2000	281.6	281.6			281.6			
2001	20.8	20.8			20.8			
2002	20.8	20.8			20.8		. A	
2003	20.8	20.8			20.8			
2004	20.8	20.8			20.8			
2005	338.1	338.1			338.1		· .	
2006	77.3	77.3			77.3			
2007	77.3	77.3			77.3			
2008	77.3	77.3			77.3			
2009	77.3	77.3			77.3			
2010	338.1	338.1			338.1			

