

REPUBLIC OF SINGAPORE

PUBLIC WORKS DEPARTMENT  
MINISTRY OF NATIONAL DEVELOPMENT

THE FEASIBILITY STUDY  
OF  
SELECTED EXPRESSWAYS

FINAL REPORT  
(DRAWINGS)

MARCH 1991

JAPAN INTERNATIONAL COOPERATION AGENCY

SSF

SPD

91-023(3/3)

THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS

FINAL REPORT (DRAWINGS)

MARCH 1991

LIBRARY  
1991

119/73.7/55F

JICA LIBRARY



1090161 (9)

22288

**REPUBLIC OF SINGAPORE**

**PUBLIC WORKS DEPARTMENT  
MINISTRY OF NATIONAL DEVELOPMENT**

**THE FEASIBILITY STUDY  
OF  
SELECTED EXPRESSWAYS**

**FINAL REPORT  
(DRAWINGS)**

**MARCH 1991**

**JAPAN INTERNATIONAL COOPERATION AGENCY**

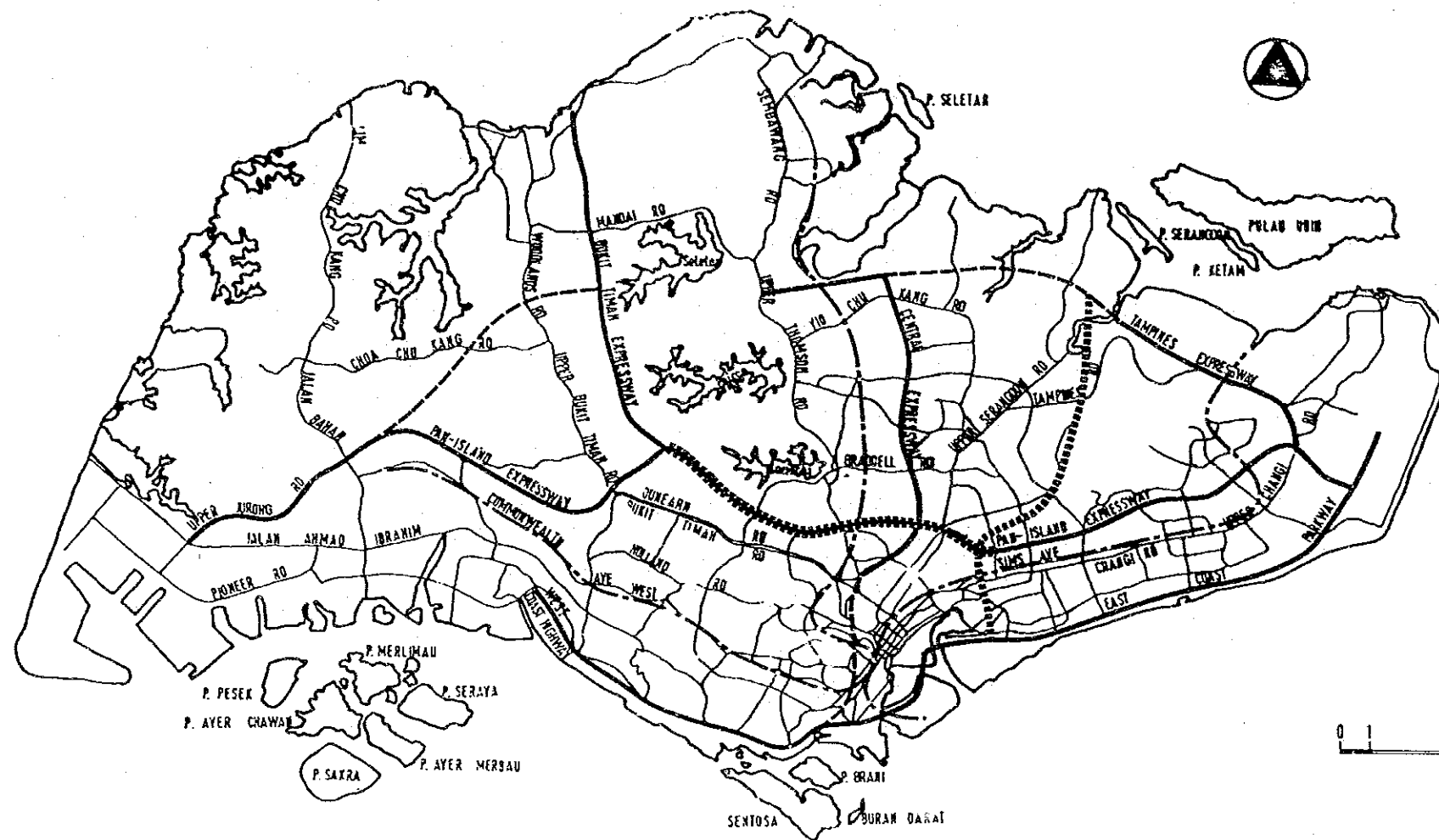


国際協力事業団

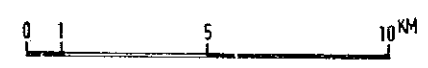
22288

# DRAWING LIST

	ROUTE	INDEX OF SHEETS	SCALE	DRAWING NO.	
ROAD DESIGN DRAWING		PROJECT AREA AND LOCATION	1:200000	1	
	PIE, KLE, PYE	TYPICAL CROSS SECTION FOR EXPRESSWAY	1:400	2	
	PIE		PLAN(PIE/BKE IC - PIE/THOMSON ROAD IC)	1:4000	3 - 7
			PROFILE(PIE/BKE IC - PIE/THOMSON ROAD IC)	H=1:4000, V=1:400	8 - 13
			PLAN(PIE/THOMSON ROAD IC - PIE/CTE IC)	1:2000	14 - 15
			INTERCHANGE PLAN	1:2000	16 - 22
			INTERCHANGE PROFILE(PIE/BKE - PIE/Mt. PLEASANT ROAD IC)	H=1:4000, V=1:400	23 - 25
	KLE		PLAN	1:4000	26 - 28
			PROFILE	H=1:4000, V=1:400	29 - 31
			INTERCHANGE PLAN	1:4000	32 - 34
			INTERCHANGE PROFILE	H=1:4000, V=1:400	35 - 46
	PYE		PLAN	1:4000	47 - 52
			PROFILE	H=1:4000, V=1:400	53 - 61
			INTERCHANGE	1:4000	62 - 66
			INTERCHANGE PROFILE	H=1:4000, V=1:400	67 - 73
	STRUCTURE DESIGN DRAWING	PIE	IMPROVEMENT OF INTERCHANGES IN PIE	1:400	74 - 75
KLE, PYE		STANDARD VIADUCT ARRANGMENT	1:400	76	
KLE		GEYLANG RIVER BRIDGE IN KLE	1:500, 1:400	77	
PYE		SERANGOON RIVER BRIDGE IN PYE	1:500, 1:400	78	
REFERENCE DRAWING	KLE	ROUTE ALTERNATIVE - II PLAN	1:4000	79 - 81	
		ROUTE ALTERNATIVE - II PROFILE	H=1:4000, V=1:400	82 - 84	
		KLE/ECP INTERCHANGE	1:4000	85 - 87	
		KLE/PYE/PIE INTERCHANGE	1:4000	88	
	PYE	ROUTE ALTERNATIVE - I PLAN	1:4000	89 - 91	
		ROUTE ALTERNATIVE - I PROFILE	H=1:4000, V=1:400	92 - 95	
		ROUTE ALTERNATIVE - III PLAN	1:4000	96 - 98	
		ROUTE ALTERNATIVE - III PROFILE	H=1:4000, V=1:400	99 - 104	
		PYE/TPE INTERCHANGE	1:4000	105	
	PIE	LANE MARKING PLAN(PIE/ENG NEO AVENUE IC - PIE/ADAM ROAD IC)	1:2000	106	
LANE MARKING PLAN(PIE/Mt. PLEASANT ROAD IC - PIE/THOMSON ROAD IC)		1:2000	107		
ECP	LANE MARKING PLAN(ECP/FORT ROAD IC - BENJAMIN SHEARES BRIDGE)	1:2000	108		









LOCATION MAP



MAP OF PROJECT AREA

LEGEND

-  PAN ISLAND EXPRESSWAY (PIE)
-  KALLANG EXPRESSWAY (KLE) AND PAYA LEBAR EXPRESSWAY (PVE)
-  ARTERIAL EXPRESSWAYS
-  ARTERIAL EXPRESSWAYS UNDER PLAN (UNDER CONSTRUCTION IN PART)
-  OTHER ROADS
-  MASS RAPID TRANSIT (MRT)

THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE

This drawing was reduced from original one of scale S=1:100000

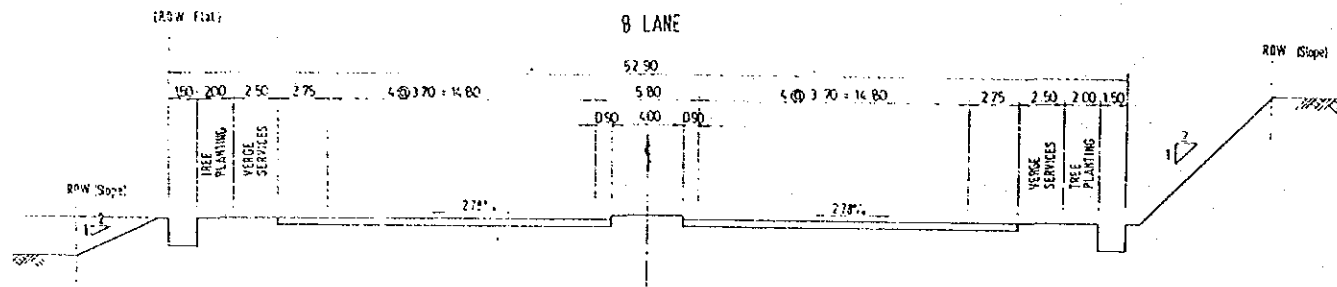
Scale :  
S=1:200000

PROJECT AREA AND LOCATION

Draw. No.:  
1/108

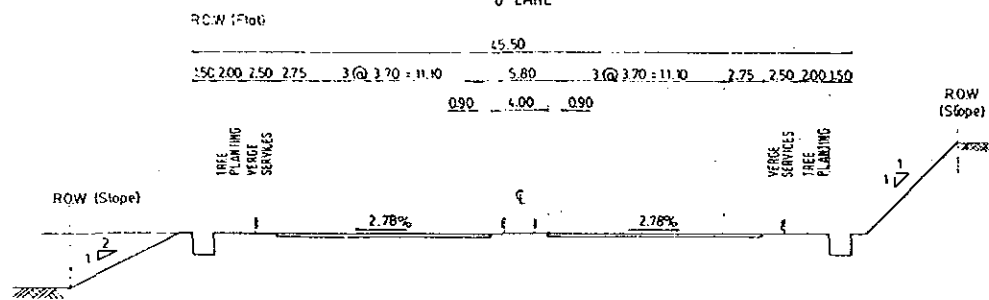
P/E  
GROUND LEVEL SECTION

THROUGHWAY

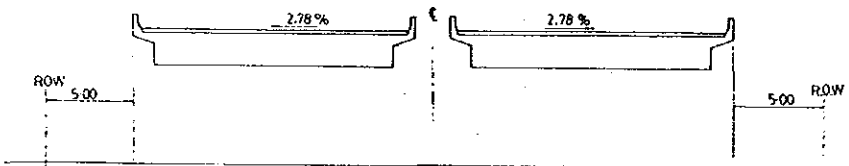
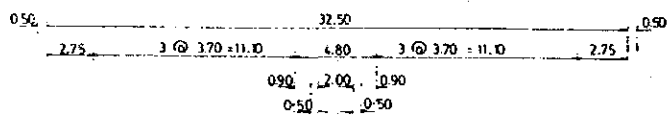


K/E AND P/E  
GROUND LEVEL SECTION

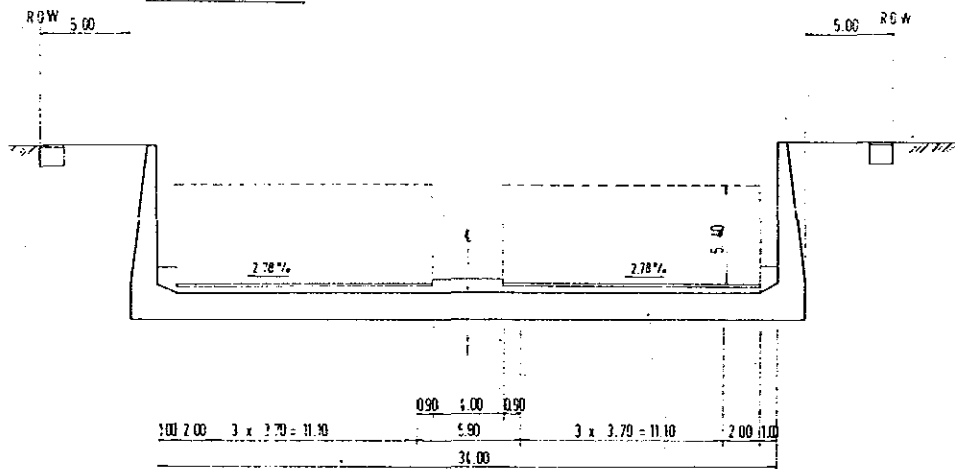
6 LANE



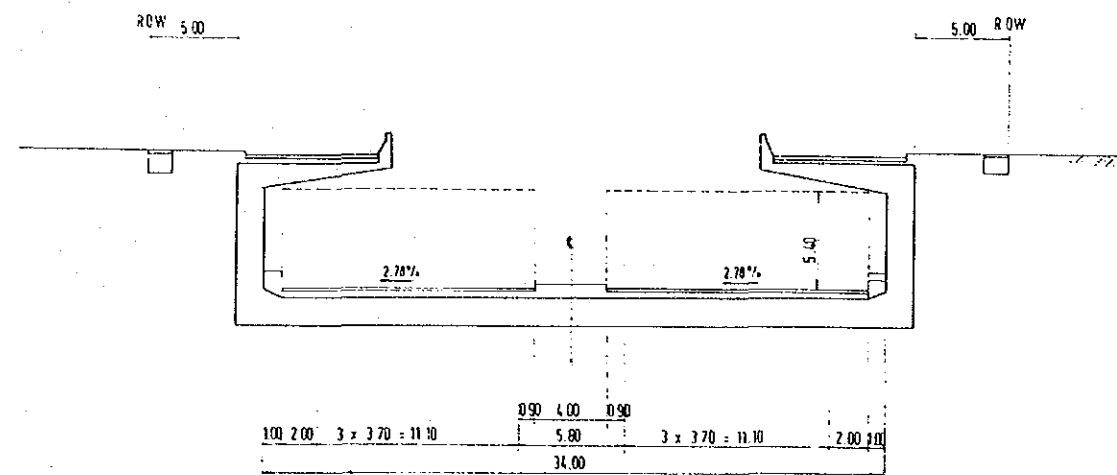
BRIDGE AND VIADUCT SECTION



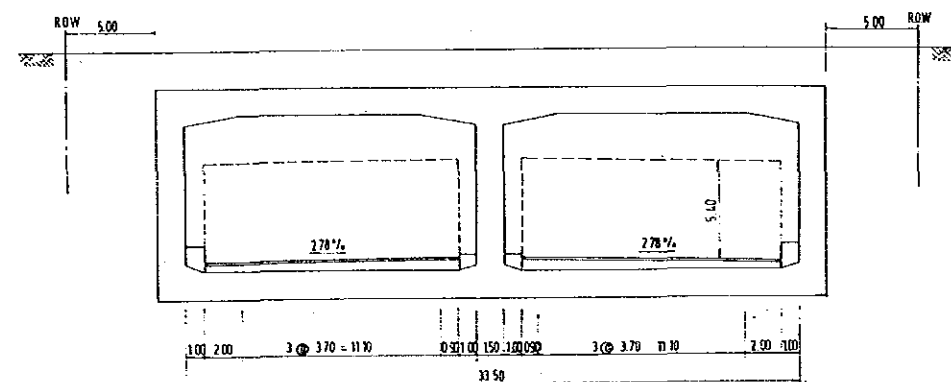
U-SHAPED SECTION



SEMI-COVERED SECTION

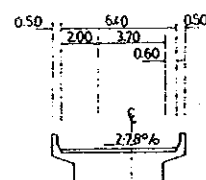


TUNNEL SECTION

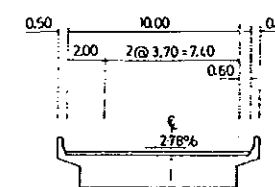


RAMPS

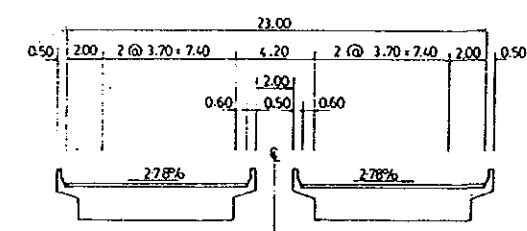
1-Lane one way



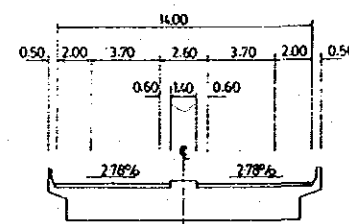
2-Lane one way



4-Lane two way



2-Lane two way



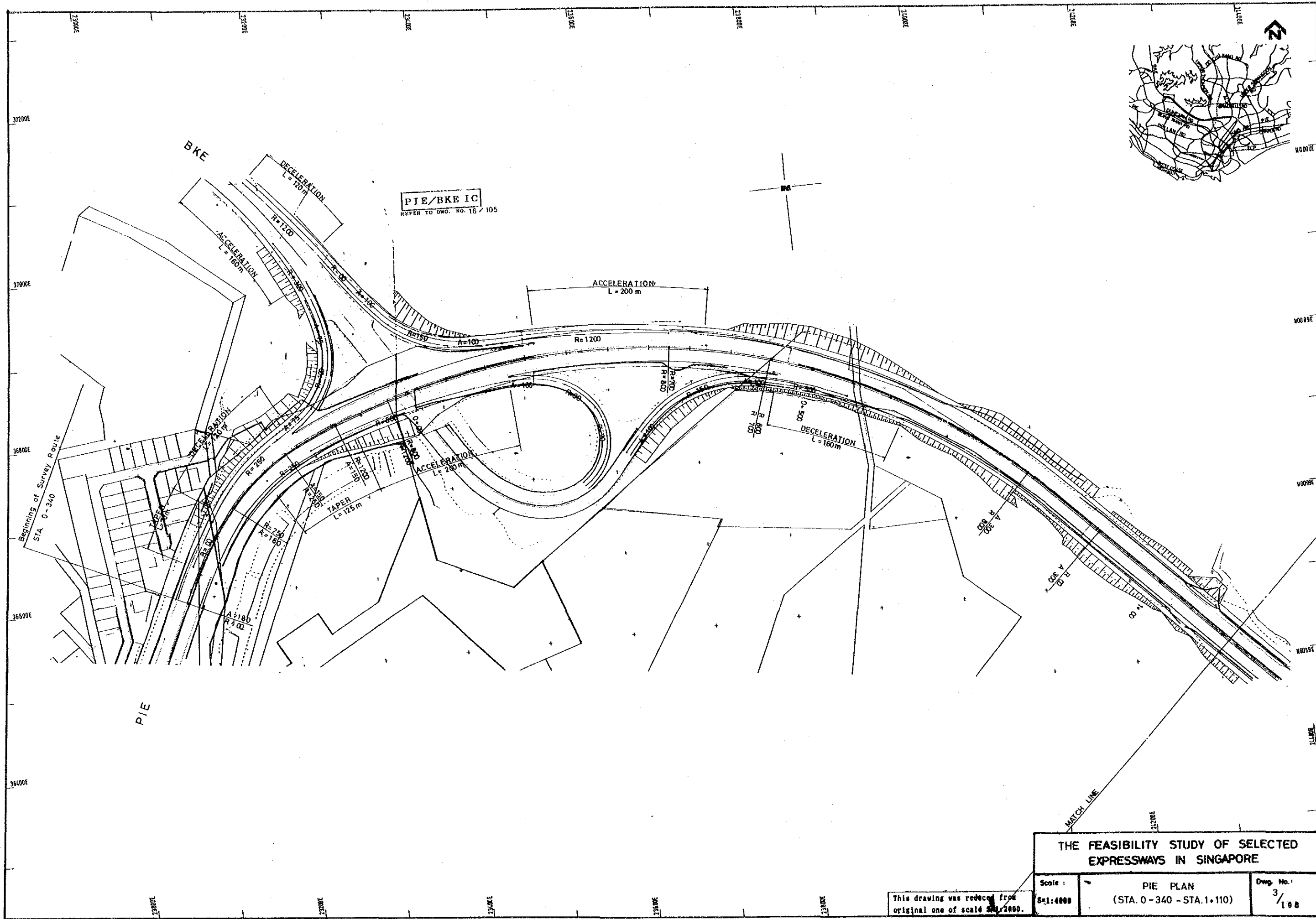
This drawing was reduced from original one of scale 3:1:200.

THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE

Scale : 1:400

TYPICAL CROSS SECTIONS FOR EXPRESSWAYS

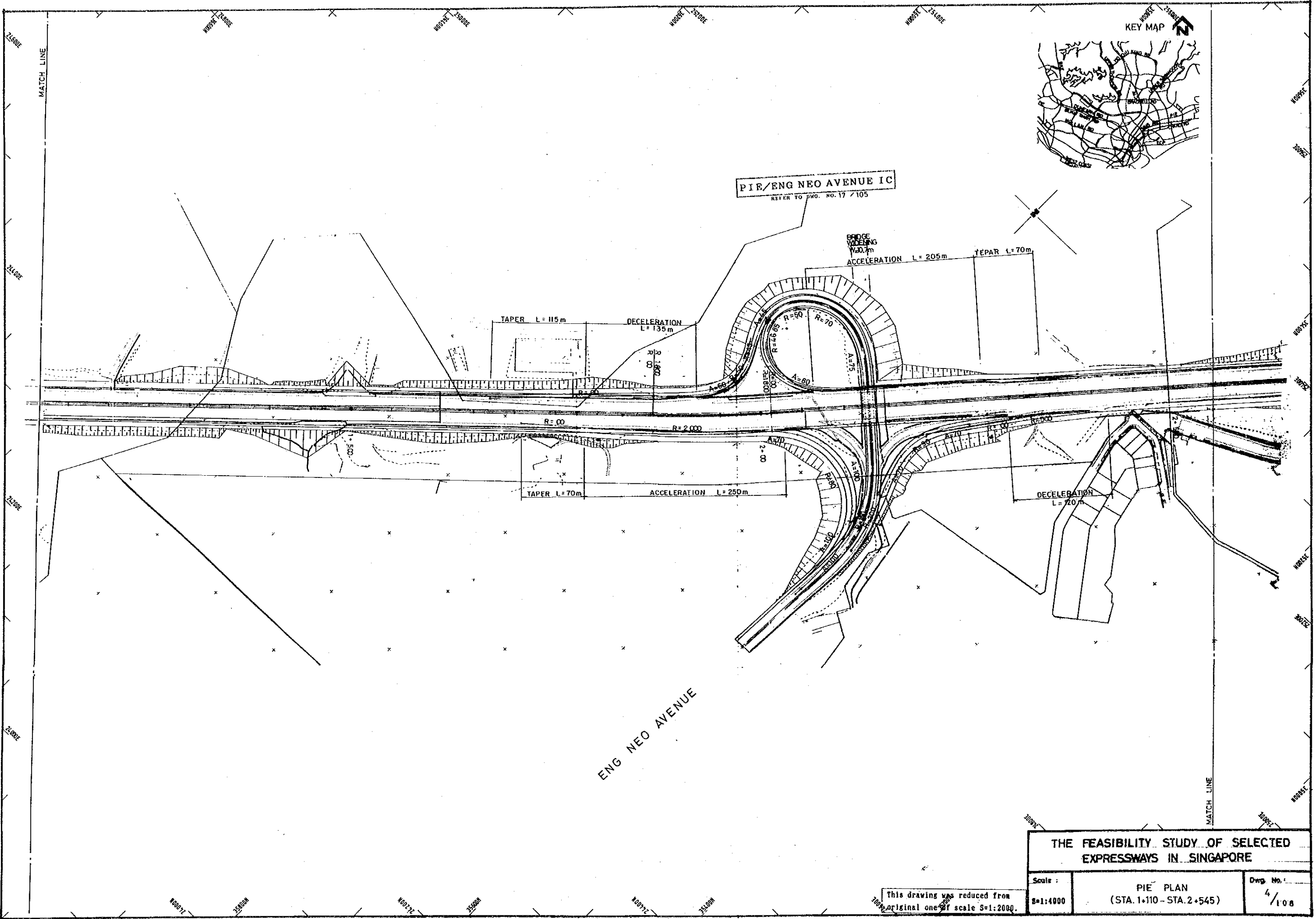
Dwg. No. : 2/108



<b>THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE</b>		
Scale:	PIE PLAN	Dwg. No.:
1:4000	(STA. 0-340 - STA. 1+110)	3/108

This drawing was reduced from original one of scale 1:2000.

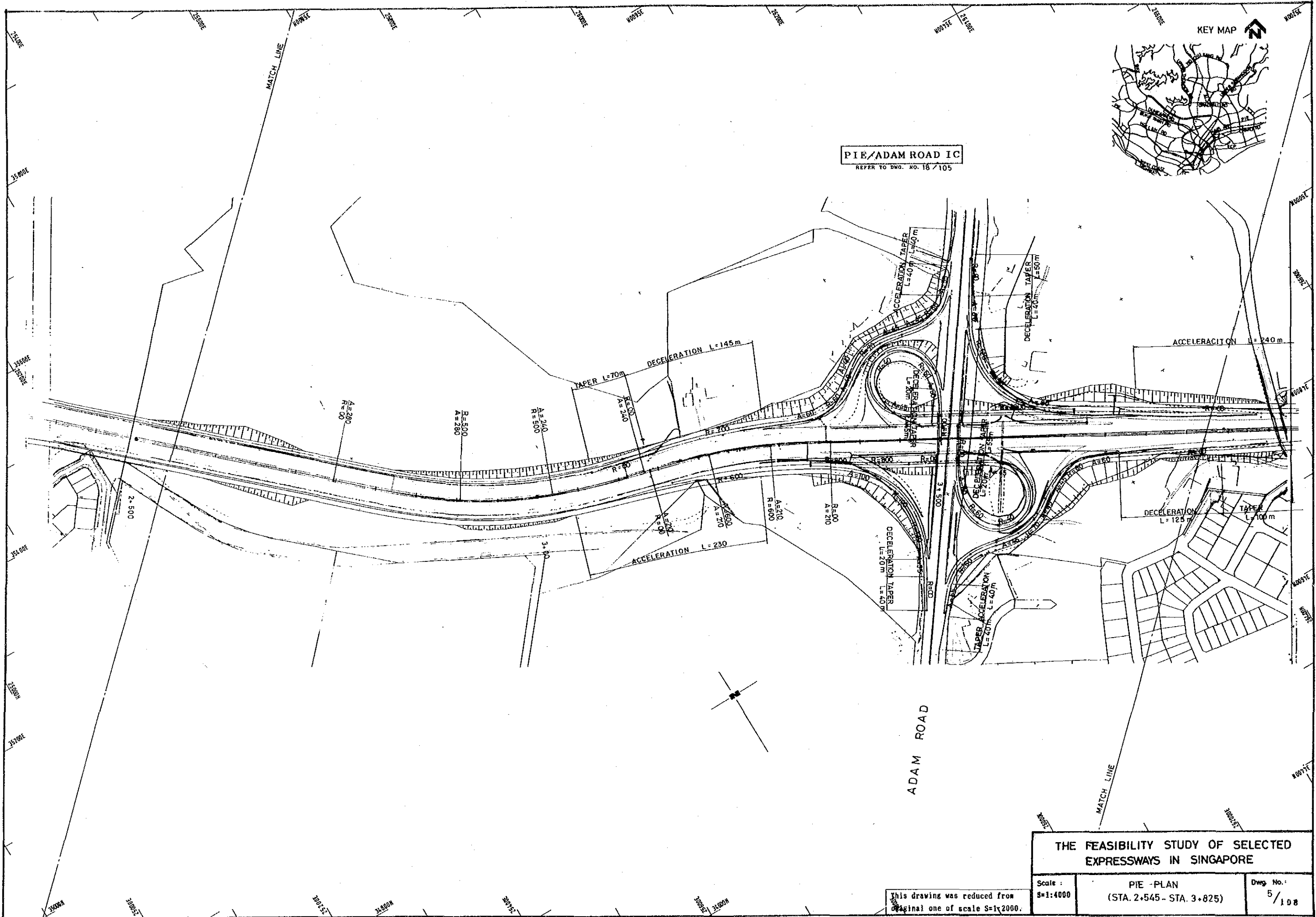




PIE/ENG NEO AVENUE IC  
REFER TO DWG. NO. 17 / 105

THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE		
Scale : S=1:4000	PIE PLAN (STA. 1+110 - STA. 2+545)	Dwg. No. : 4/108

This drawing was reduced from original one of scale S=1:2000.

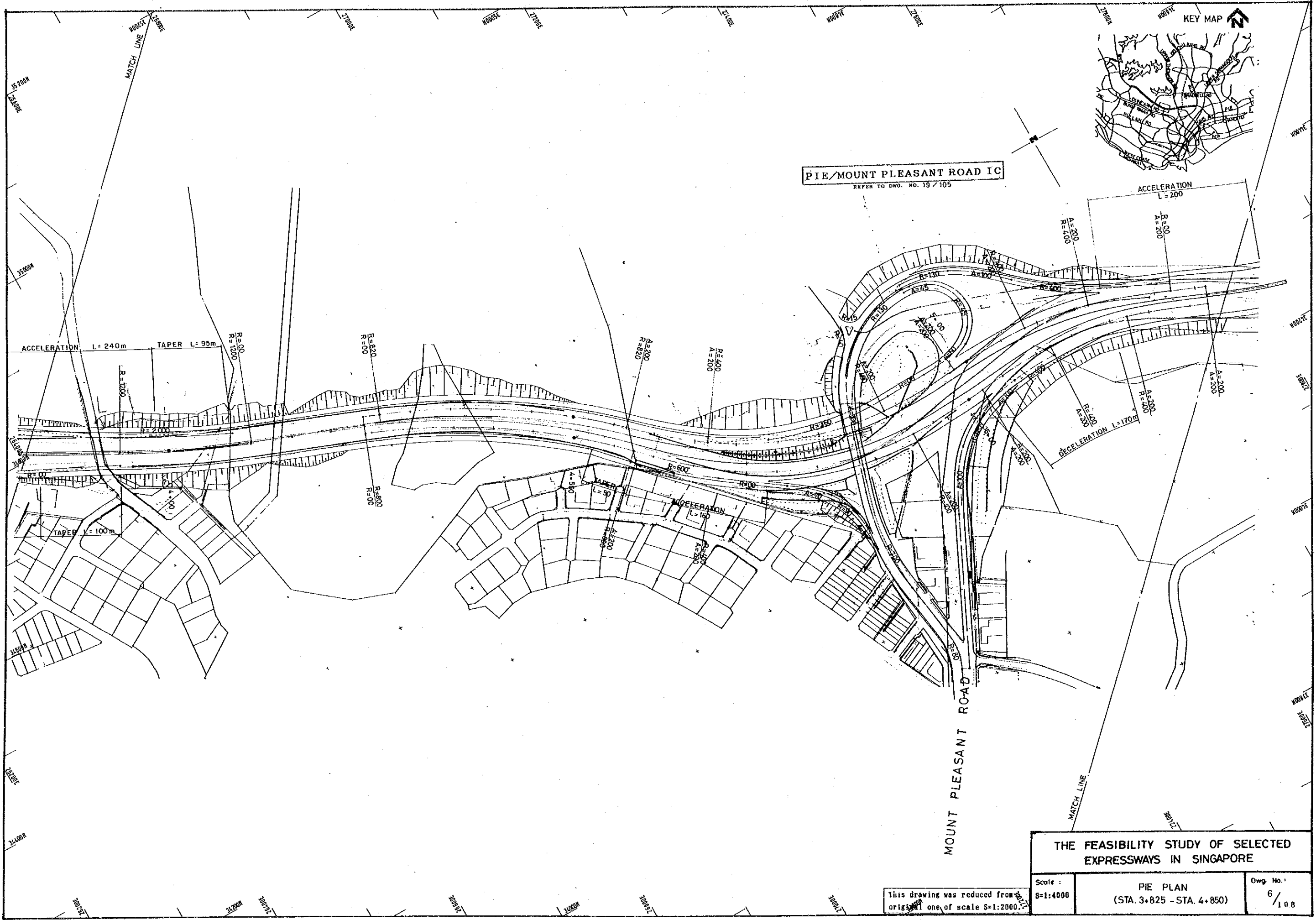


**PIE/ADAM ROAD IC**  
REFER TO DWG. NO. 16/105



<b>THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE</b>		
Scale : S=1:4000	PIE -PLAN (STA. 2+545 - STA. 3+825)	Dwg. No. : 5/108

This drawing was reduced from original one of scale S=1:2000.



**PIE/MOUNT PLEASANT ROAD IC**  
 REFER TO DWG. NO. 19/105



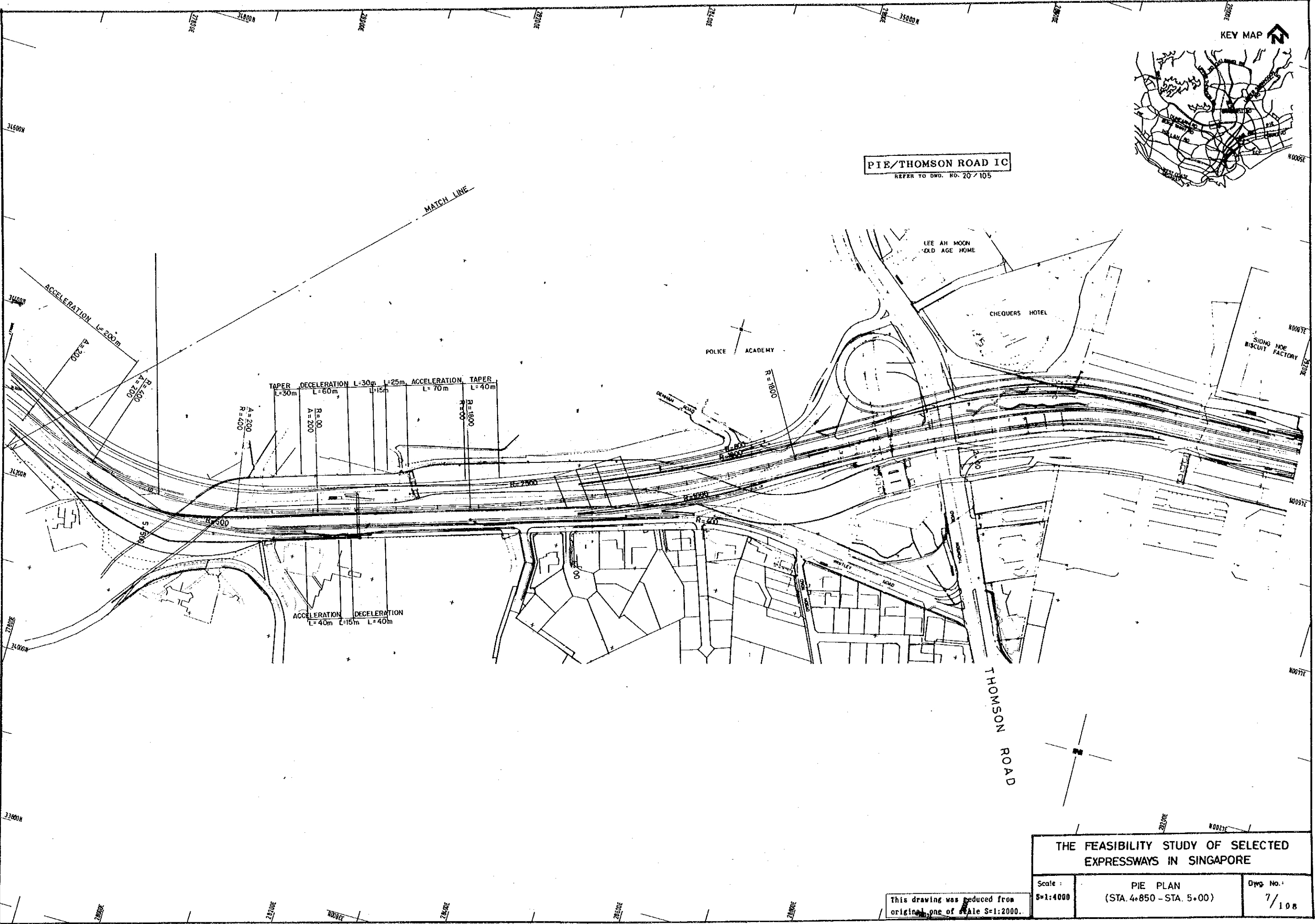
**THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE**

Scale : 8=1:4000	PIE PLAN (STA. 3+825 - STA. 4+850)	Dwg. No. : 6/198
---------------------	---------------------------------------	---------------------

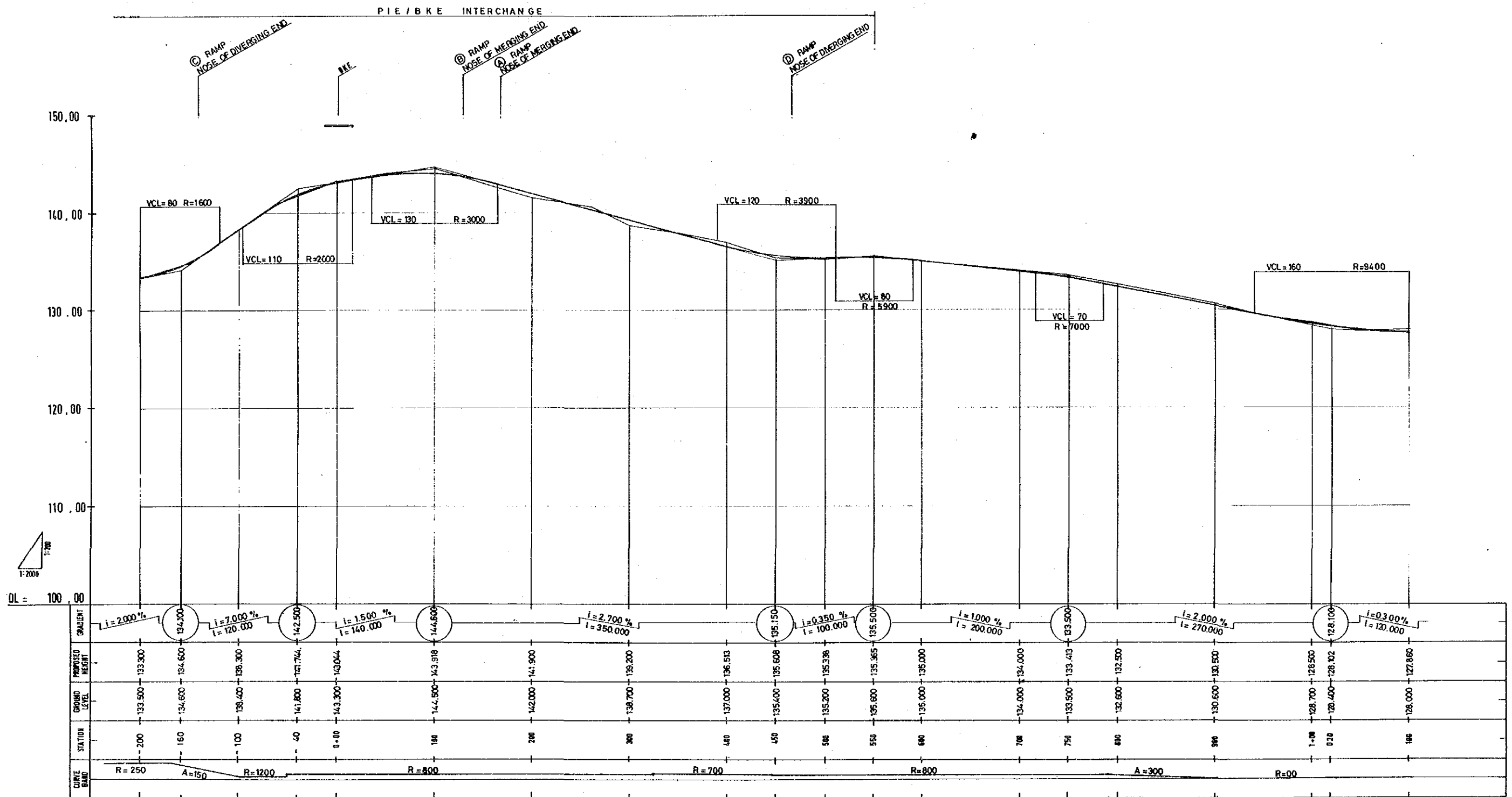
This drawing was reduced from original one of scale S=1:2000.



**PIE/THOMSON ROAD IC**  
REFER TO DWD. NO. 20/105



This drawing was produced from original one of scale S=1:2000.

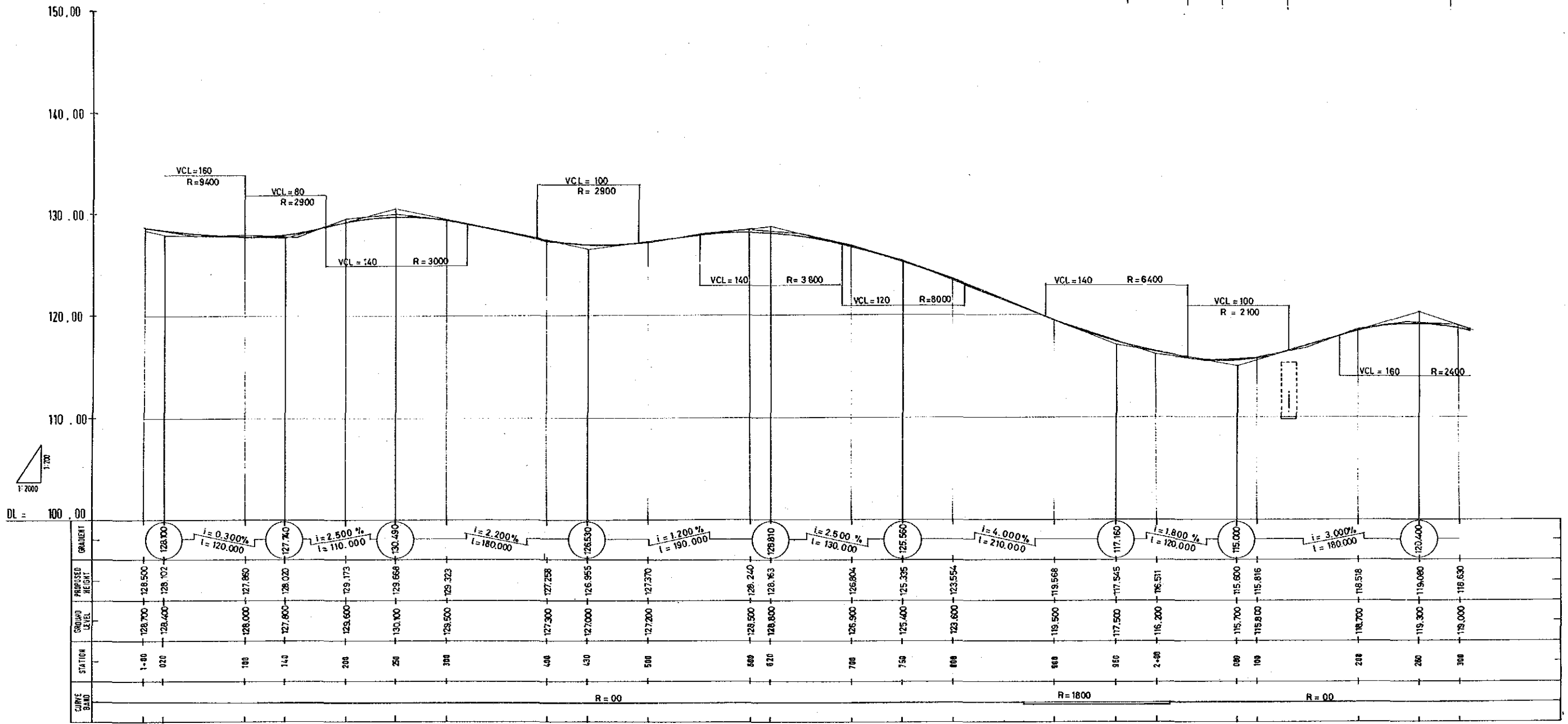
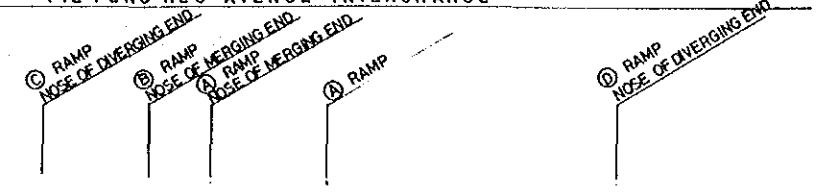


**THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE**

Scale: H=1:4000 V=1:400	PIE PROFILE (1) (STA. 0-200 - STA. 1+100)	Dwg. No.: 8/108
-------------------------------	--	--------------------

This drawing was reduced from original one of scale H=1:2000, V=1:200.

PIE / ENG NEO AVENUE INTERCHANGE



THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE

Scale : H=1:4000 V=1:400

PIE PROFILE (2) (STA. 1+100 - STA. 2+300)

Dwg No. 9/108

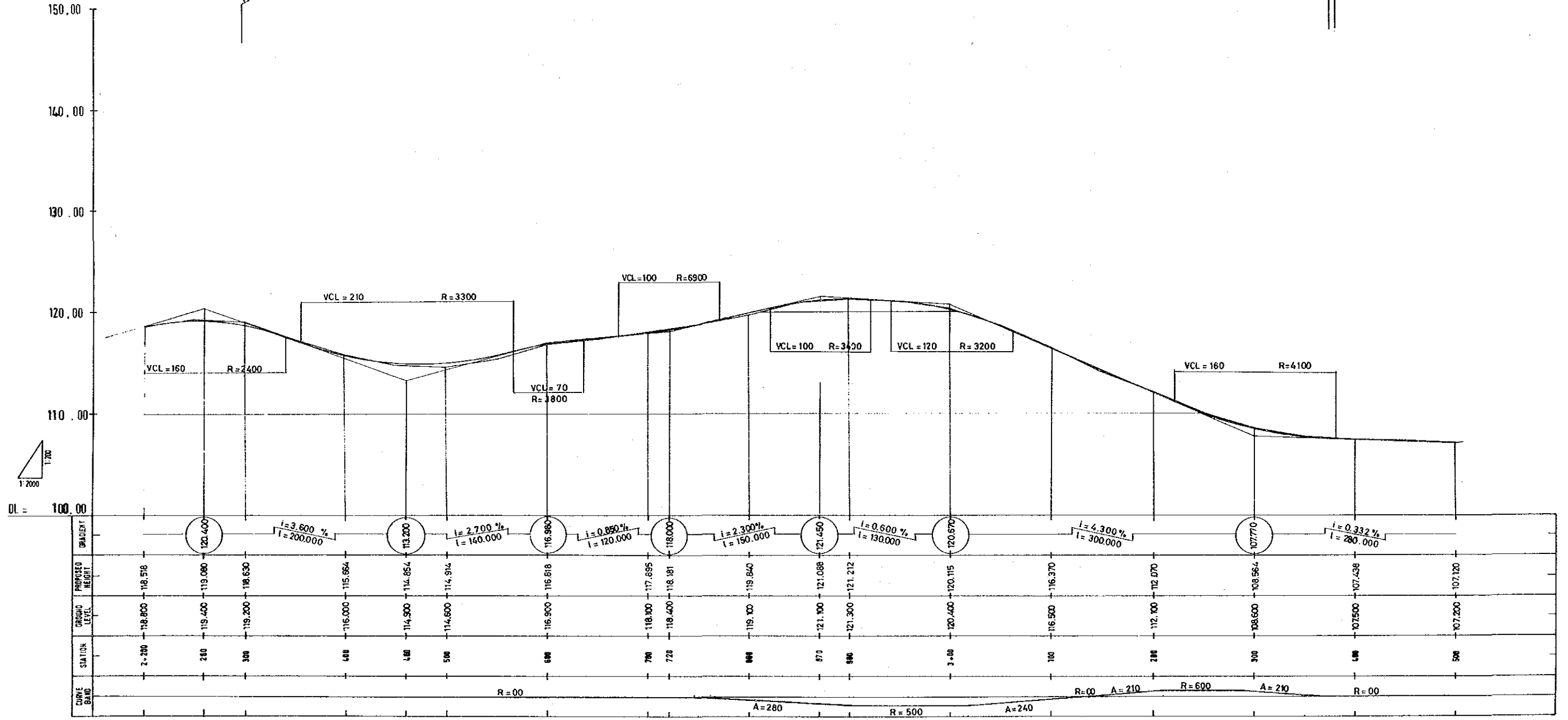
This drawing was reduced from original one of scale H=1:2000, V=1:200.

PIE / ENG NEO AVENUE INTERCHANGE

PIE / ADAM ROAD INTERCHANGE

① RAMP  
NOSE OF DIVERGING END

① RAMP  
NOSE OF MERGING END  
② RAMP  
NOSE OF DIVERGING END



THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE

This drawing was reduced from original one of scale H=1:2000, V=1:200.

Scale:  
H=1:4000  
V=1:400

PIE PROFILE (3)  
(STA. 2+200 - STA. 3+500)

Dwg No.:  
10/108

PIE / ADAM ROAD INTERCHANGE

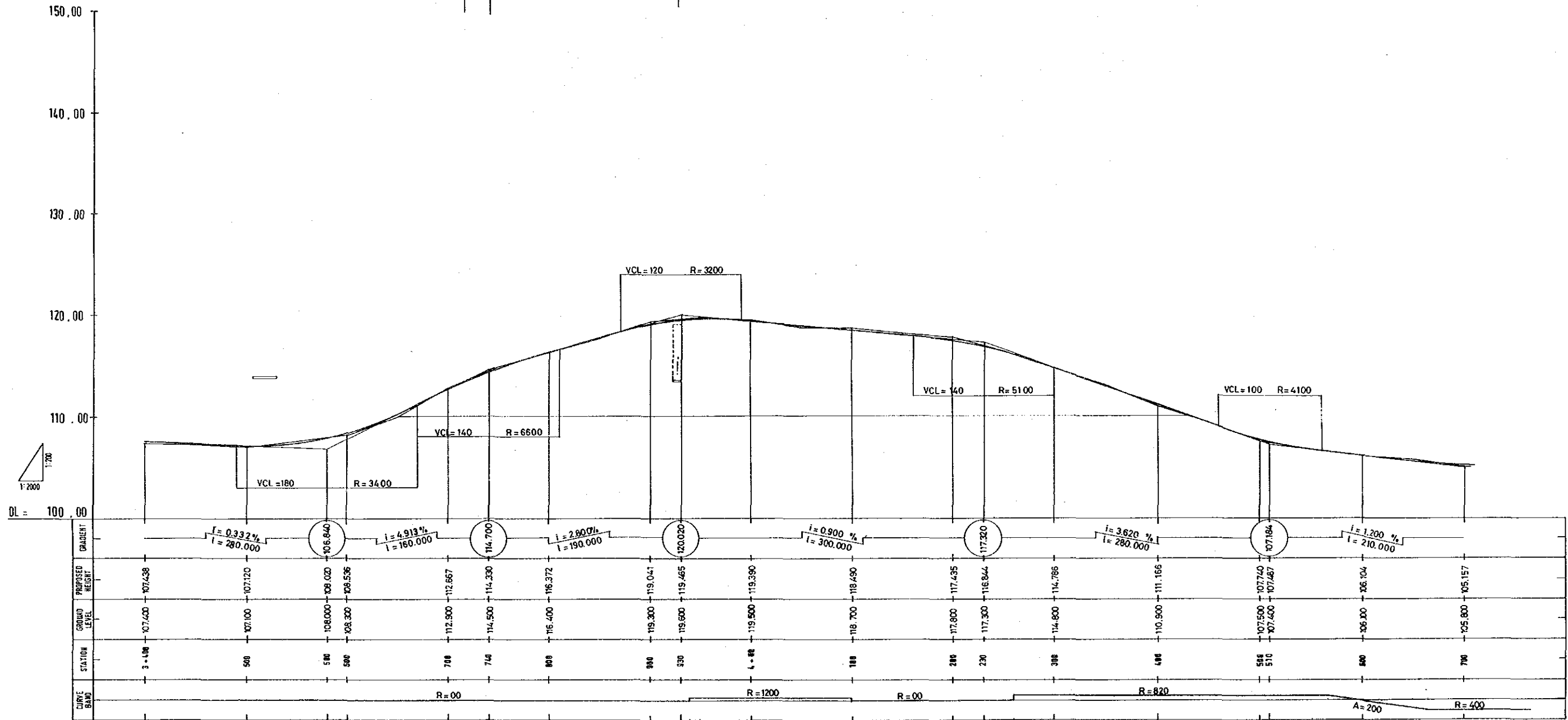
PIE / MOUNT PLEASANT ROAD INTERCHANGE

ADAM ROAD

Ⓟ RAMP  
NOSE OF DIVERGING END

Ⓠ RAMP  
NOSE OF MERGING END

ADAM MOUNT ROAD



THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE

Scale :  
H=1:4000  
V=1:400

PIE PROFILE (4)  
(STA. 3+400 - STA. 4+700)

Dwg. No. 1  
11/108

This drawing was reduced from original one of scale H=1:2000, V=1:200.

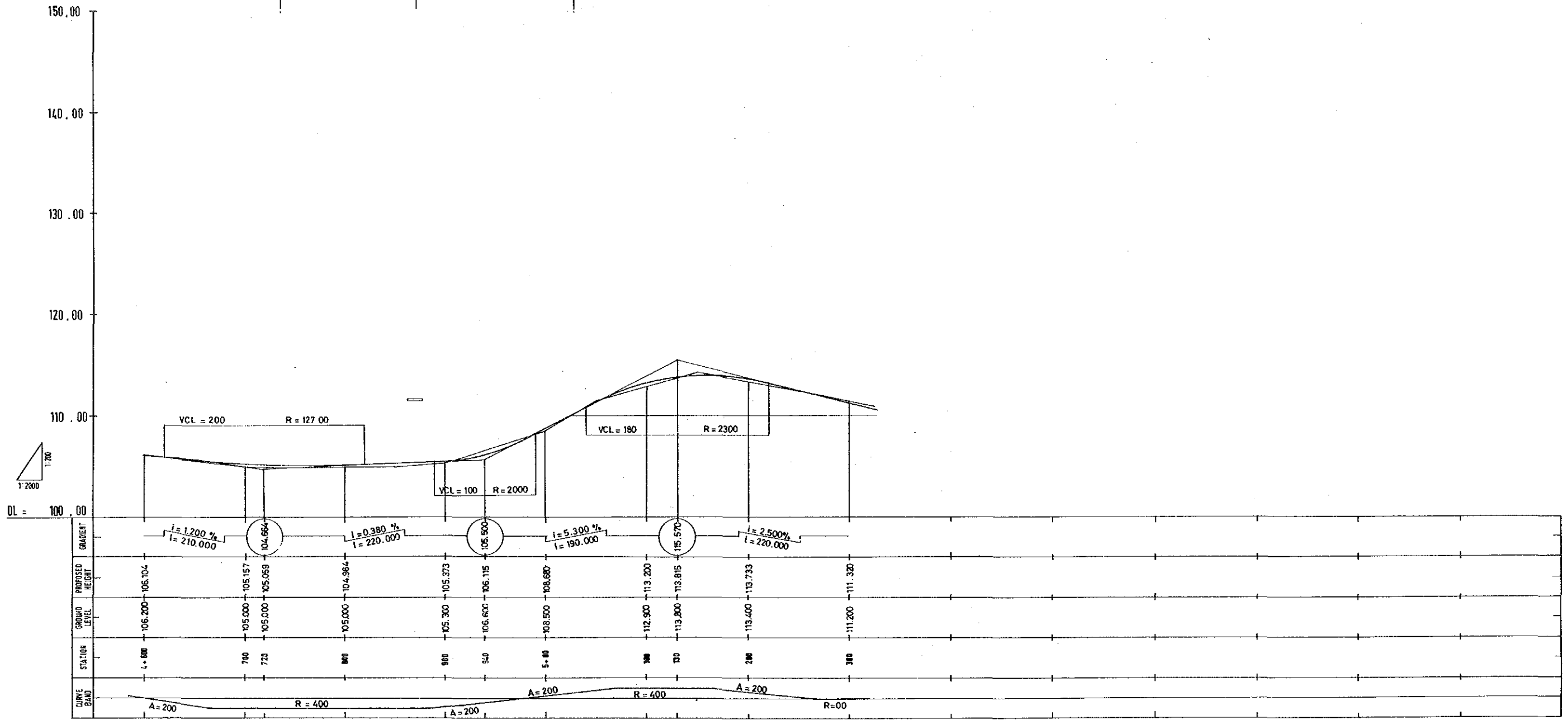


PIE / MOUNT PLEASANT ROAD INTERCHANGE

② RAMP  
NOSE OF MERGING END

MOUNT PLEASANT RAMP

① RAMP  
NOSE OF DIVERGING END



THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE		
Scale :	PIE PROFILE (5)	Dwg. No. :
H=1:4000	(STA. 4+600 - STA. 5+300)	12/
V=1:400		198

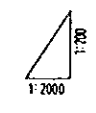
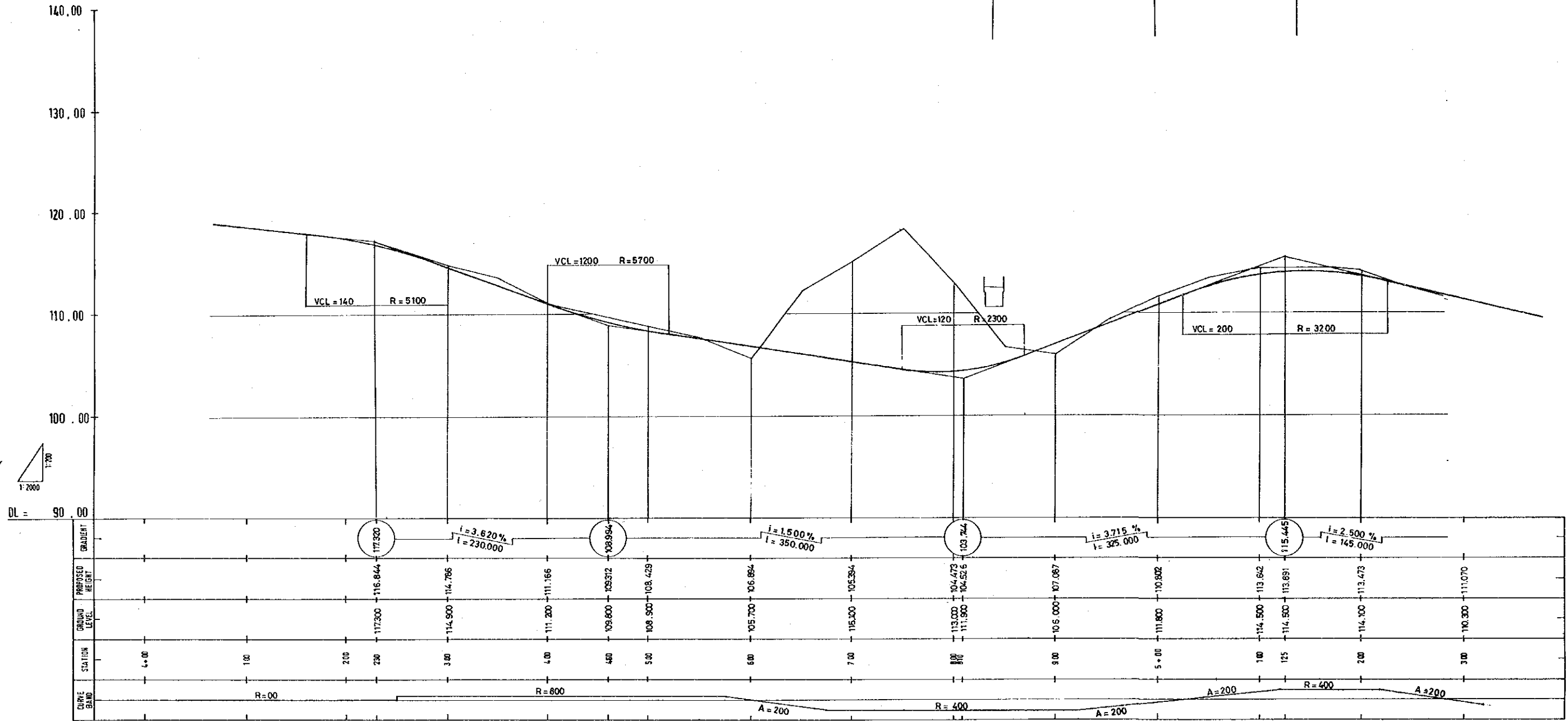
This drawing was reduced from original one of scale H=1:2000, V=1:200.

PIE MOUNT PLEASANT ROAD INTERCHANGE

MOUNT PLEASANT ROAD

© RAMP  
NOSE OF DIVERGING END

Ⓐ RAMP  
NOSE OF MERGING END



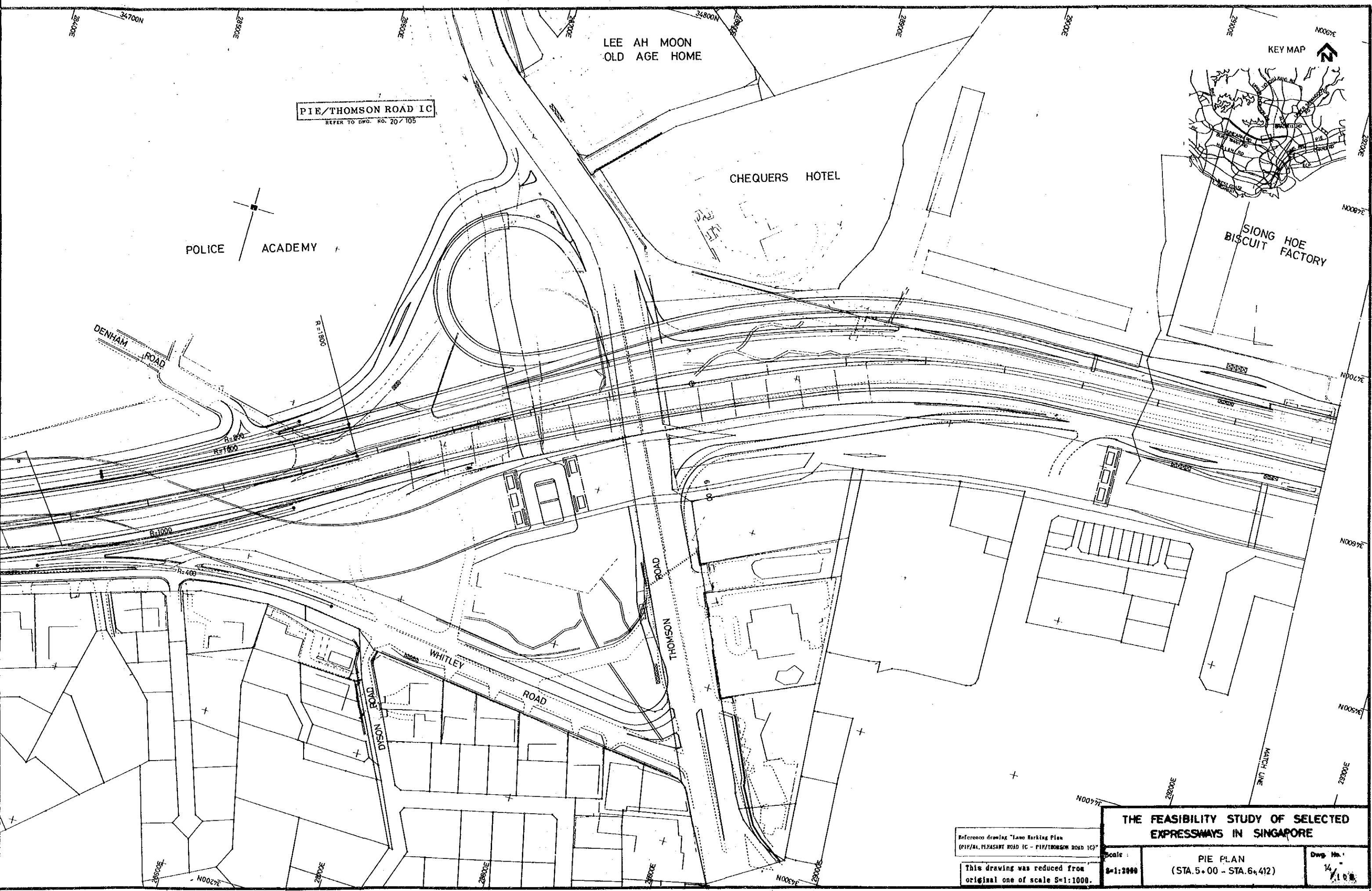
DL = 90.00

THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE

Scale: H=1:4000 V=1:400	PIE PROFILE (CHANGI. BOUND) (STA. 4+100 - STA. 5+300)	Dwg. No.: 13/108
-------------------------------	--	---------------------

This drawing was reduced from original one of scale H=1:2000, V=1:200.





**THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE**

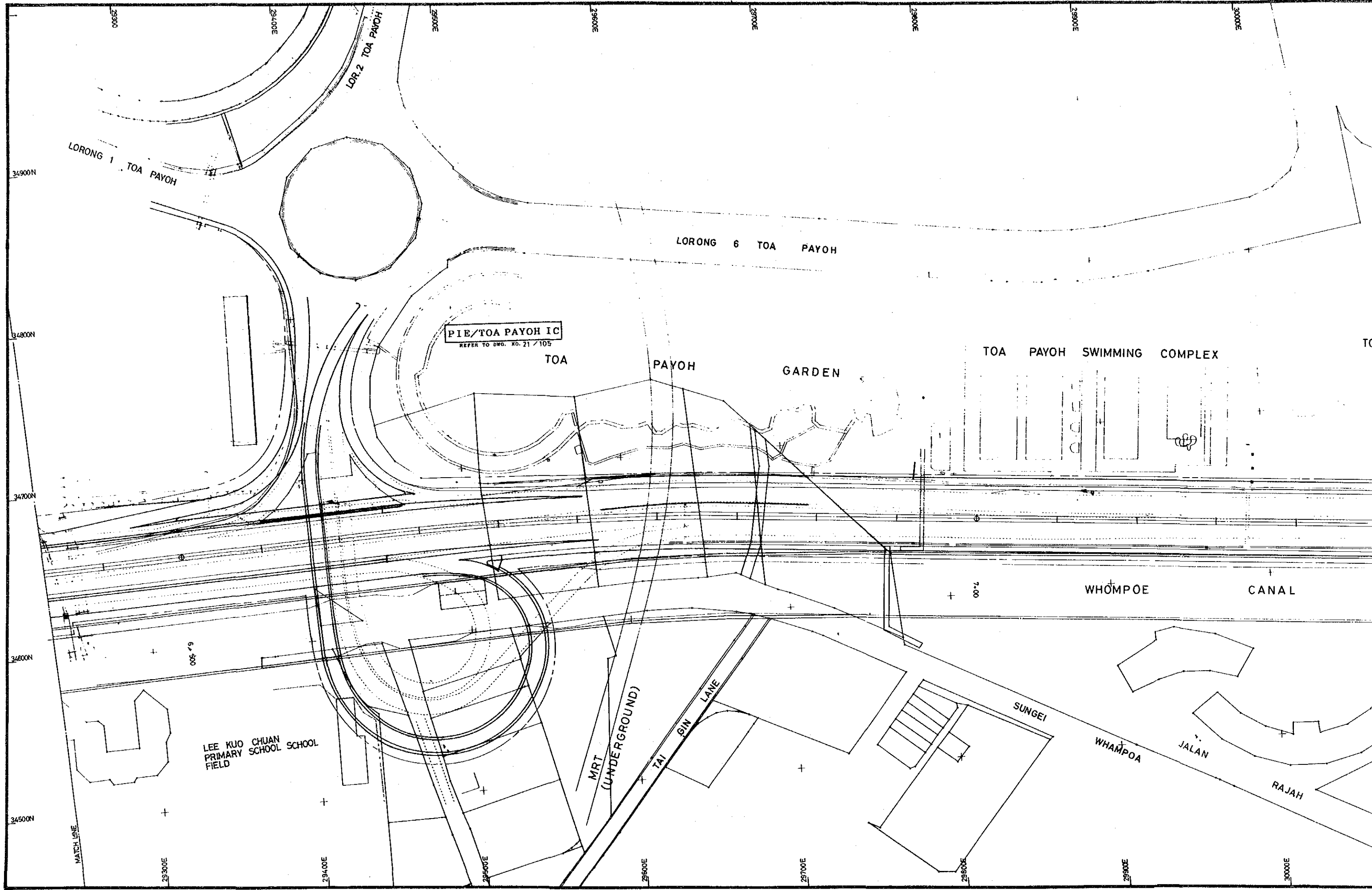
Scale: 1:2000

PIE PLAN (STA. 5+00 - STA. 6+412)

Dwg. No. 14/108

Reference drawing "Lane Marking Plan (PIE/AL, PLEASANT ROAD IC - PIE/THOMSON ROAD IC)"

This drawing was reduced from original one of scale S=1:1000.



LORONG 1 TOA PAYOH

LOR 2 TOA PAYOH

LORONG 6 TOA PAYOH

PIE/TOA PAYOH IC  
REFER TO DWG. NO. 21/105

TOA PAYOH

GARDEN

TOA PAYOH SWIMMING COMPLEX

LEE KUO CHUAN  
PRIMARY SCHOOL  
FIELD

MRT  
(UNDERGROUND)

TAI BIN LANE

SUNGEI

WHAMPOA

JALAN

RAJAH

WHOMPOE

CANAL

34900N

34800N

34700N

34600N

34500N

29300E

29400E

29500E

29600E

29700E

29800E

29900E

30000E

29300E

29400E

29500E

29600E

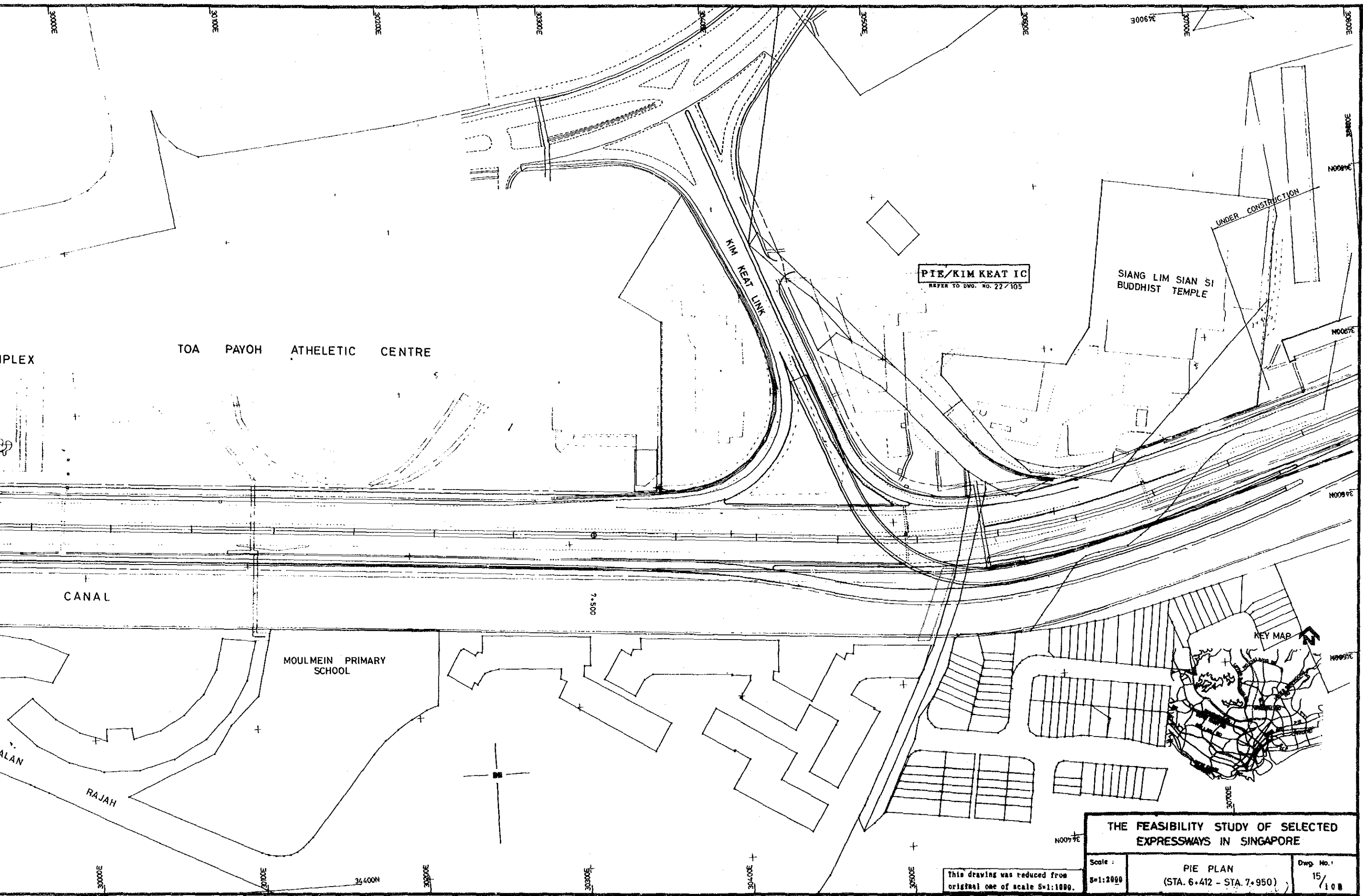
29700E

29800E

29900E

30000E

MATCH LINE



<b>THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE</b>		
Scale:	PIE PLAN (STA. 6+412 - STA. 7+950)	Dwg. No.:
8=1:2000		15/108

This drawing was reduced from original one of scale S=1:1000.

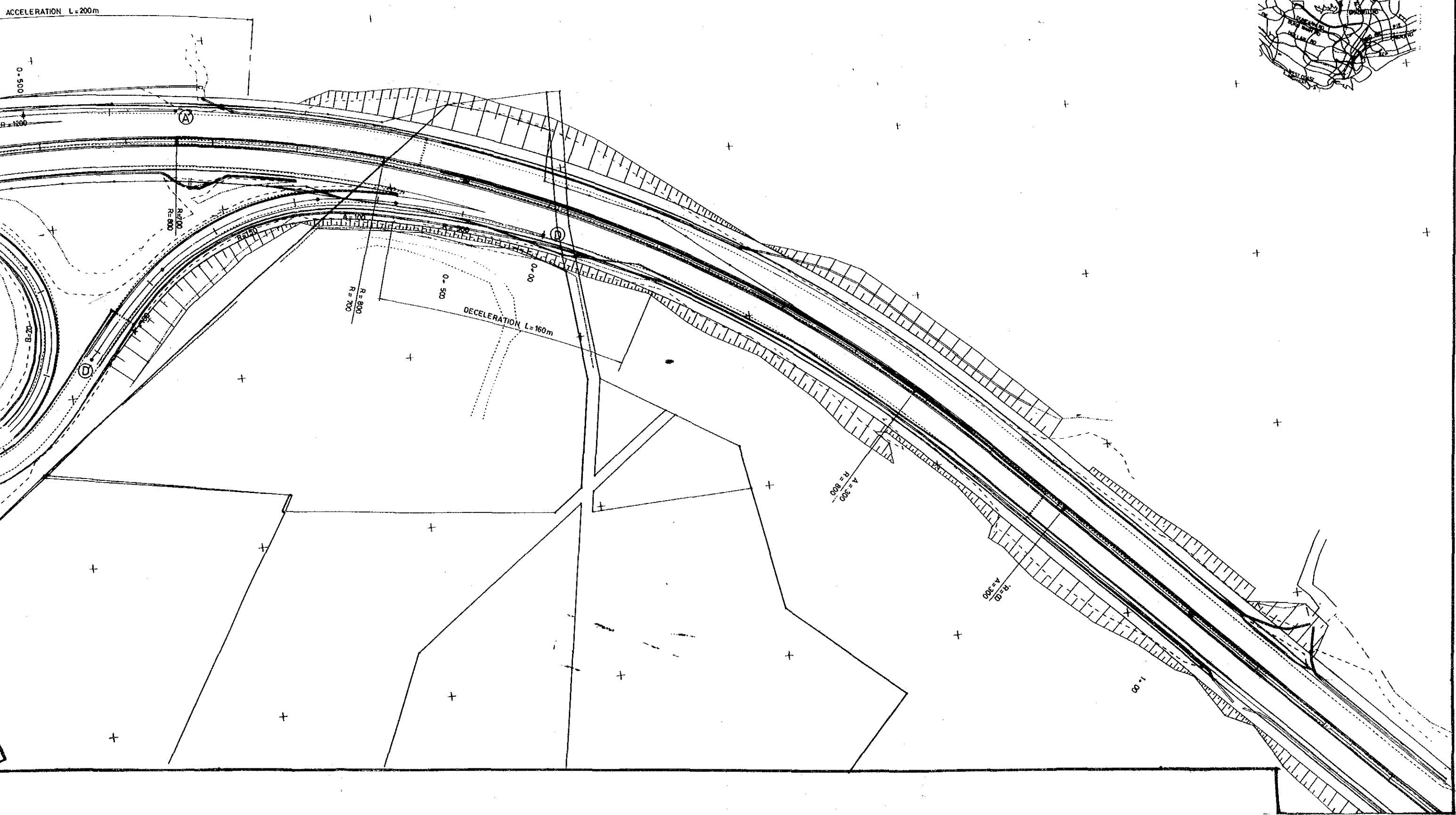
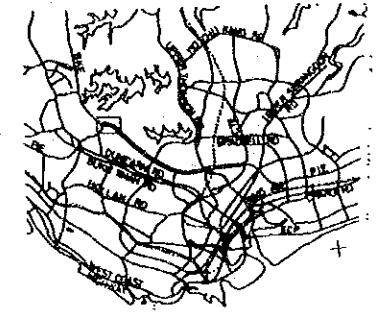


This drawing was reduced from original one of scale S=1:1000.

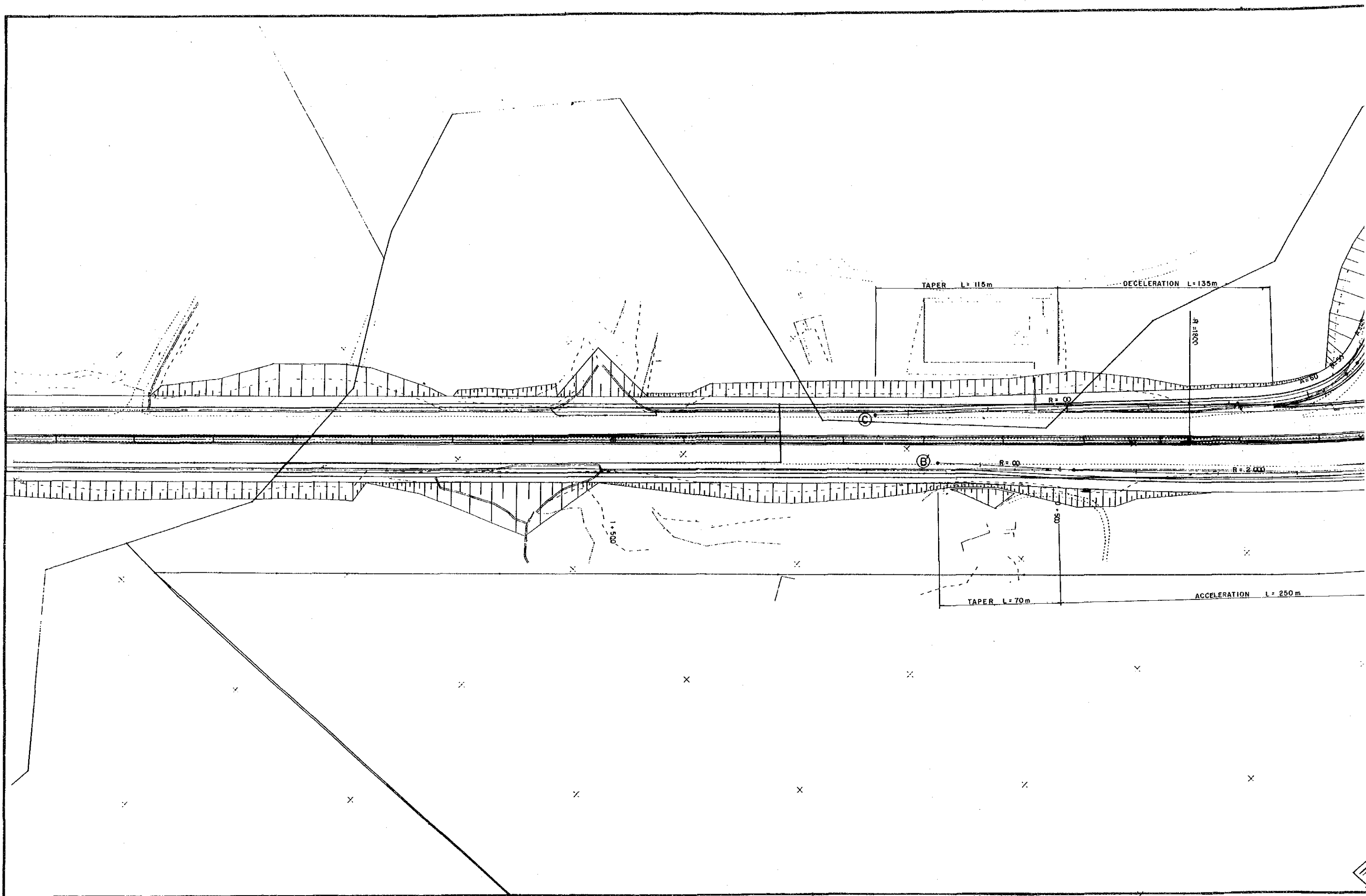
# THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE

Scale :	PIE / BKE INTERCHANGE	Dwg. No. :
S=1:2000	PLAN.	16 / 108

KEY MAP 



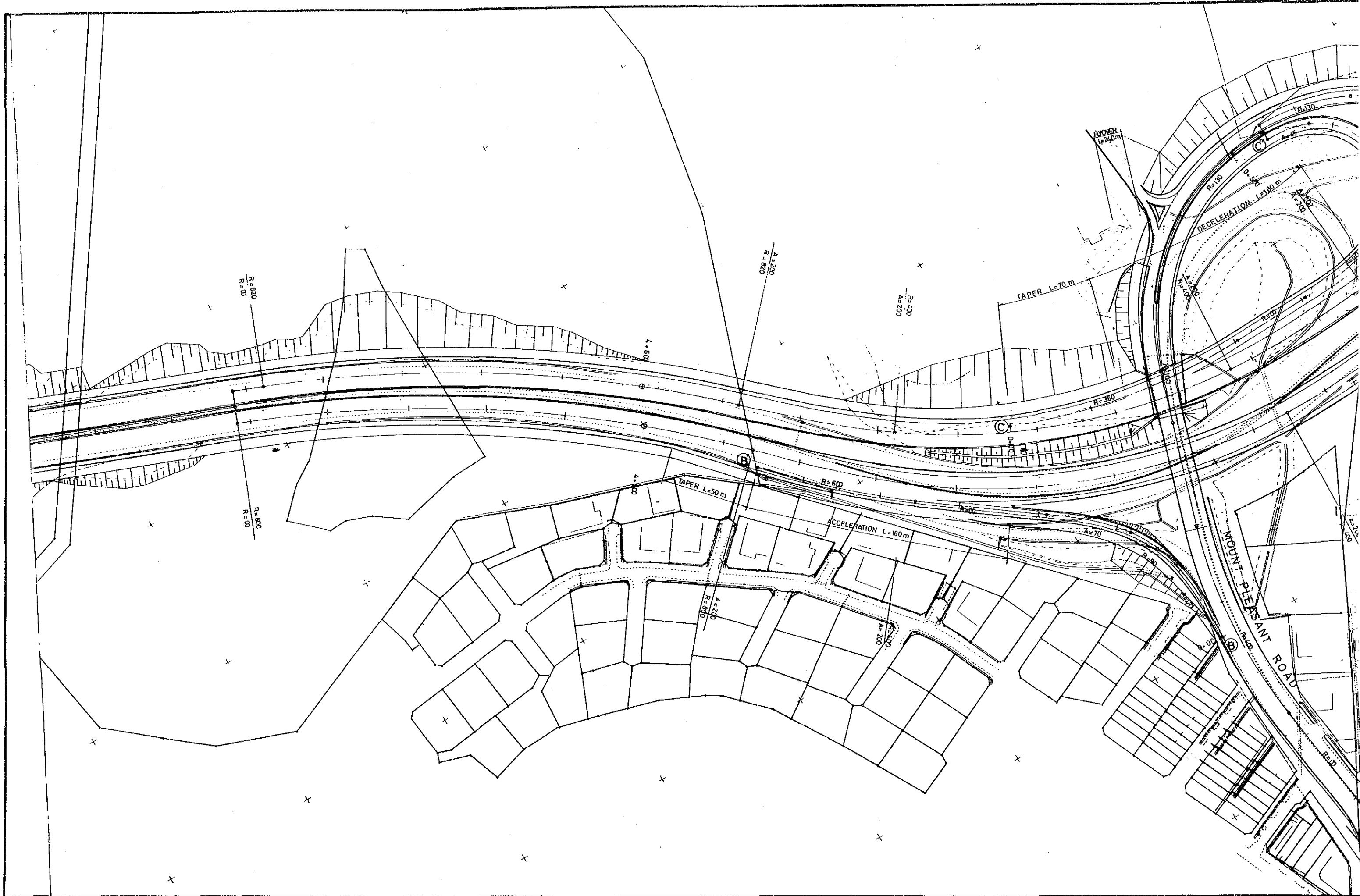


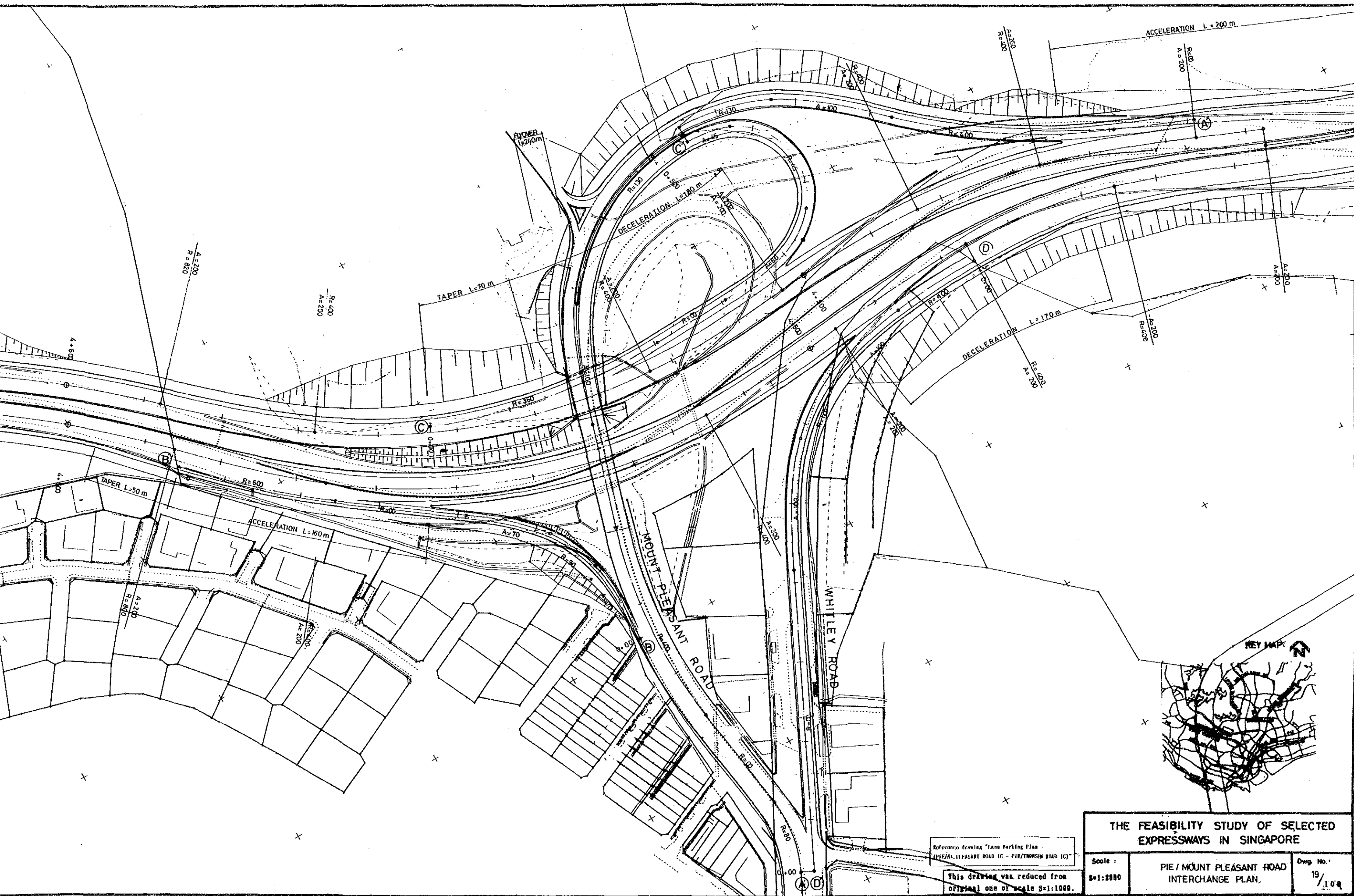












Reference drawing "Lane Marking Plan -  
 (PIE/MOUNT PLEASANT ROAD IC - PIE/WHITLEY ROAD IC)"

This drawing was reduced from  
 original one of scale S=1:1000.

<b>THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE</b>		
Scale :	PIE / MOUNT PLEASANT ROAD INTERCHANGE PLAN.	Dwg. No. :
S=1:2000		19/108

LEE AH NGOH  
OLD AGE HOME

CHEQUERS HOTEL

POLICE ACADEMY

DENHAM ROAD

WHITLEY ROAD

THOMSON ROAD

DISON ROAD

R=1800  
R=100

R=1800

R=800  
R=1800

R=2500

N0019  
28300E

28400E

28500E

28600E

N0020N

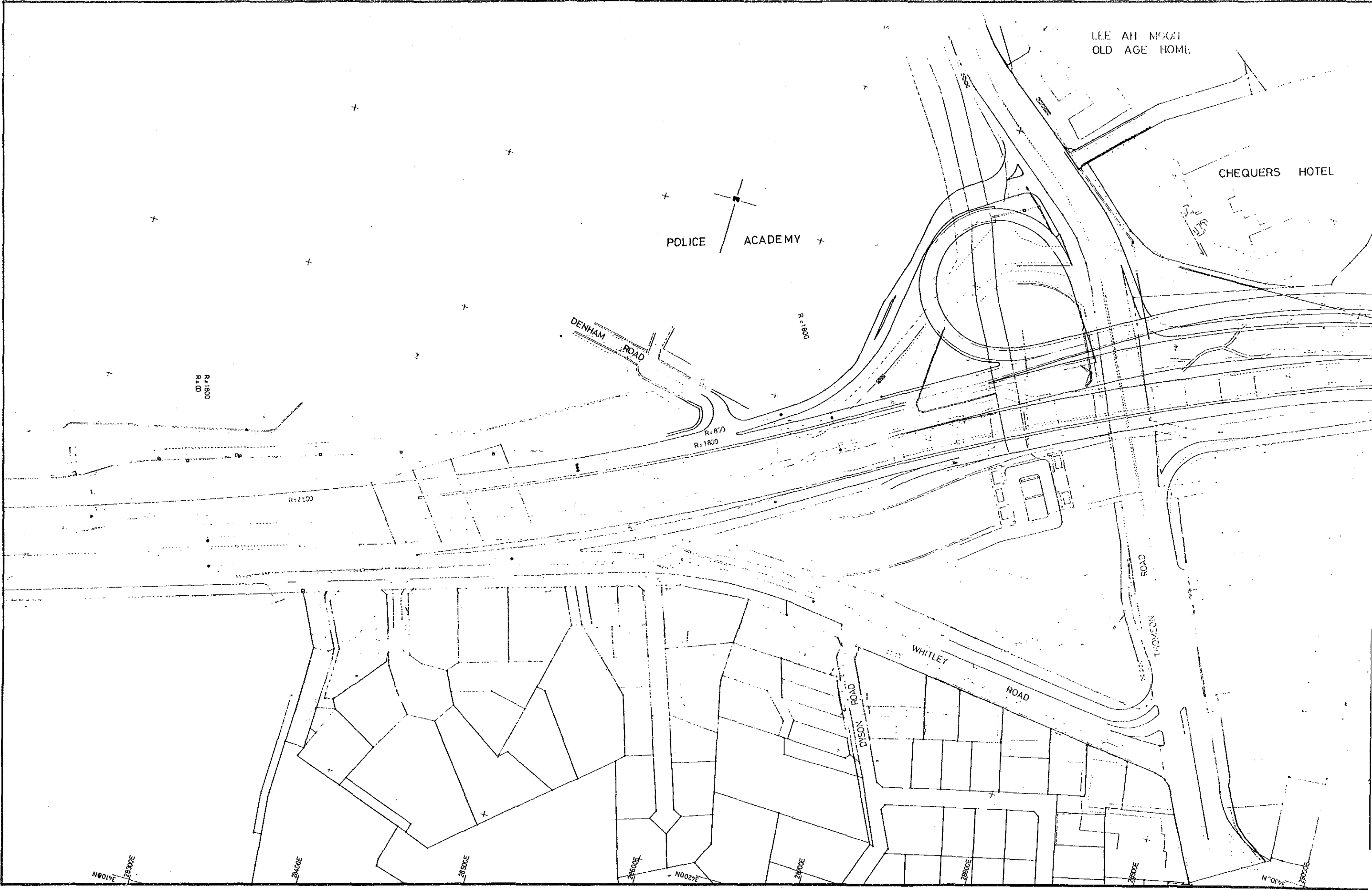
28700E

28800E

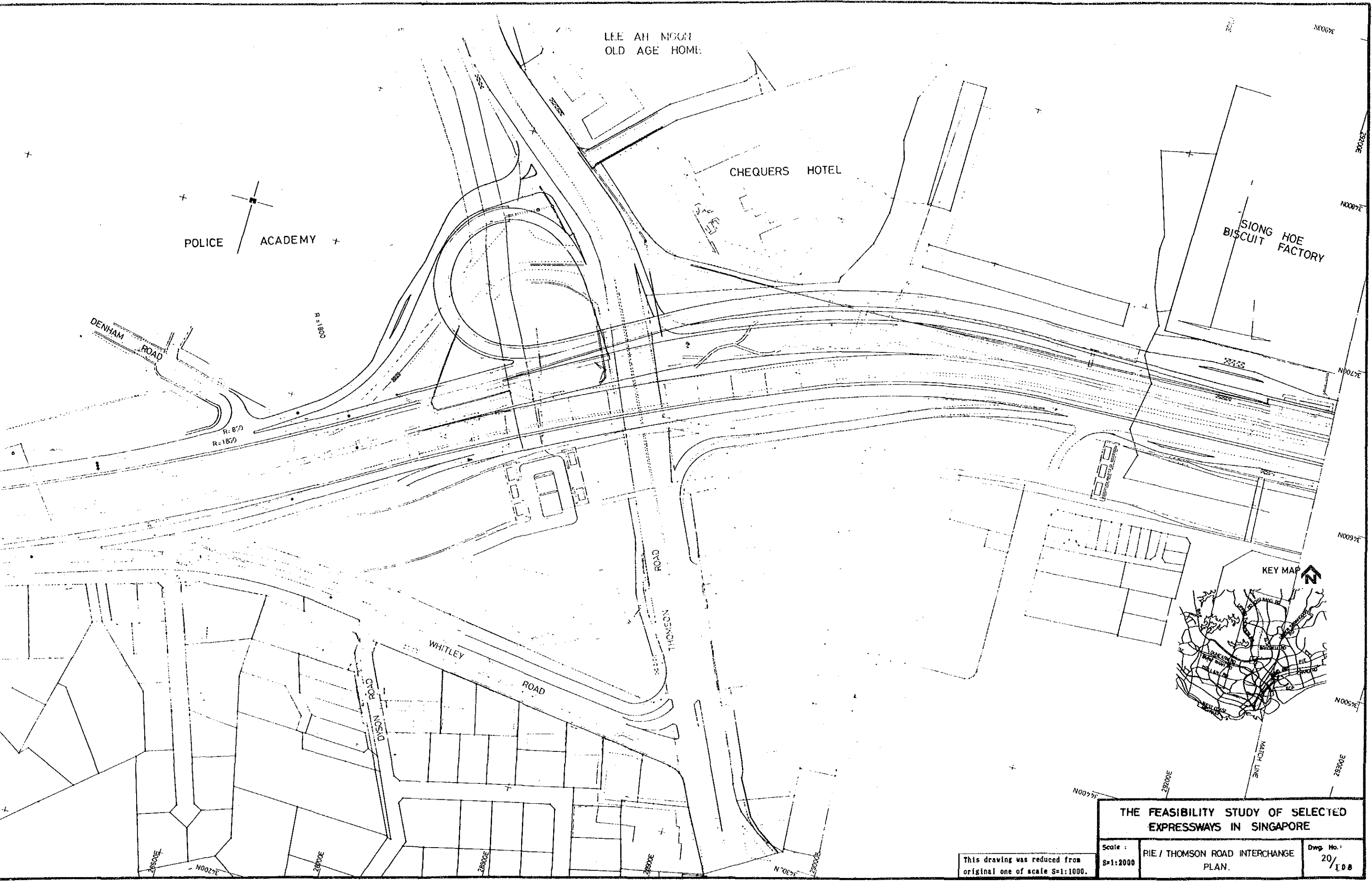
28900E

N0021N

29000E



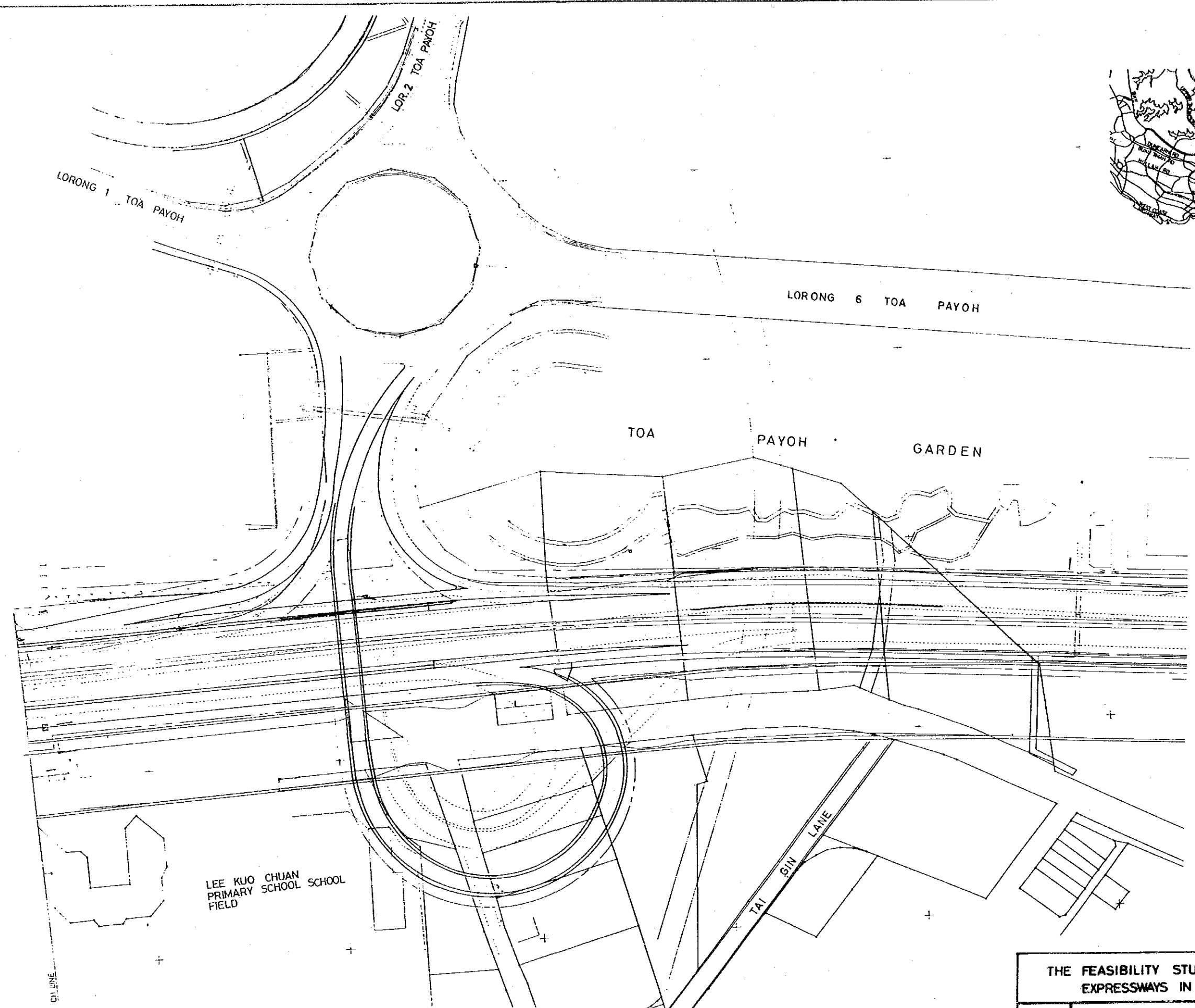
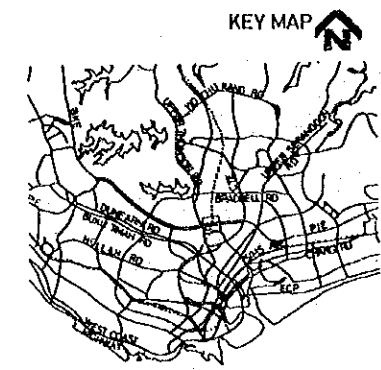




This drawing was reduced from original one of scale S=1:1000.

<b>THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE</b>		
Scale : S=1:2000	PIE / THOMSON ROAD INTERCHANGE PLAN.	Dwg. No. : 20/108

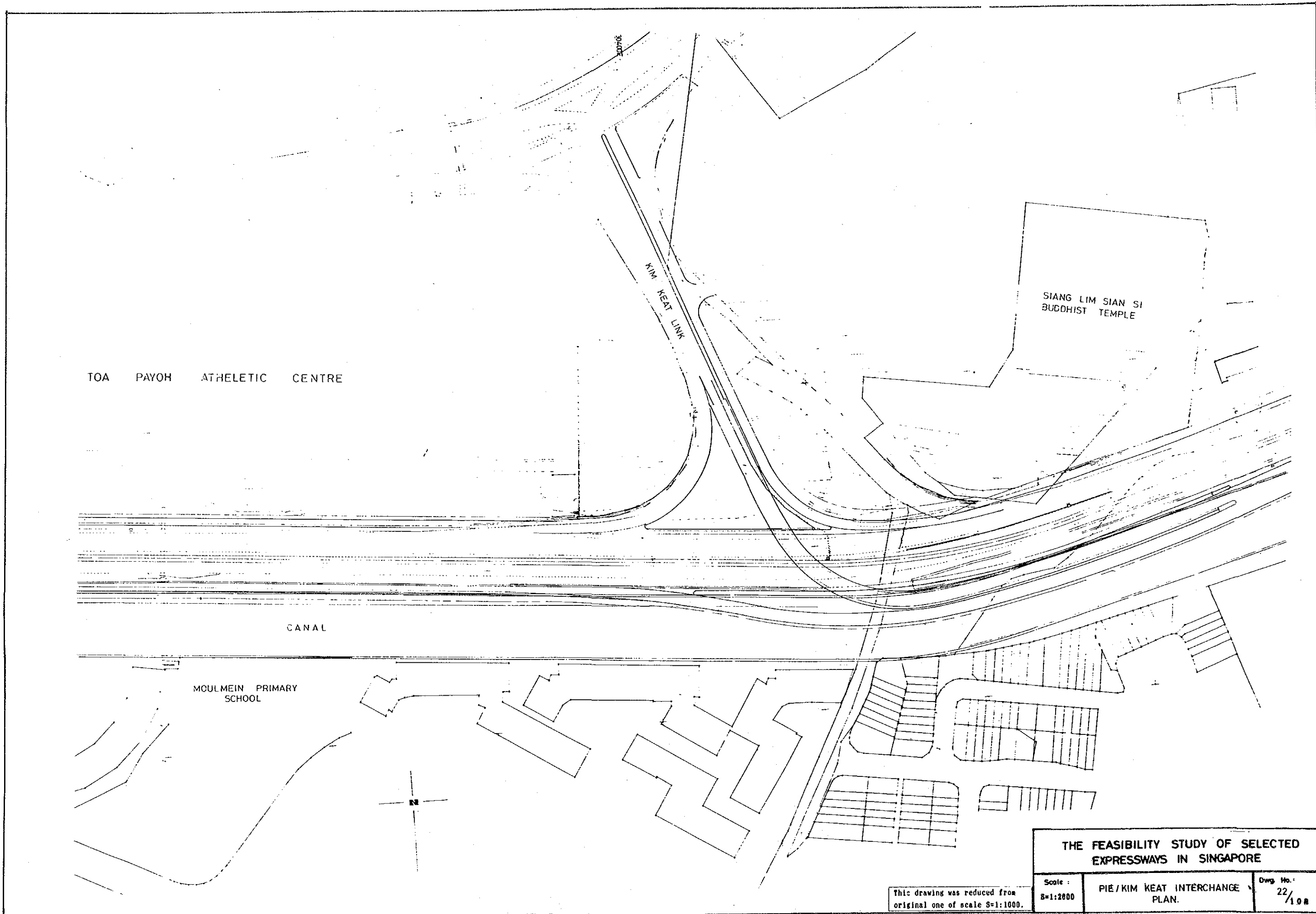




LEE KUO CHUAN  
PRIMARY SCHOOL SCHOOL  
FIELD

<b>THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE</b>		
Scale : S=1:2000	PIE/TOA PAYOH INTERCHANGE PLAN.	Dwg No. : 21/108

This drawing was reduced from original one of scale S=1:1000.



TOA PAYOH ATHLETIC CENTRE

KIM KEAT LINK

SIANG LIM SIAN SI  
BUDDHIST TEMPLE

CANAL

MOULMEIN PRIMARY  
SCHOOL

THE FEASIBILITY STUDY OF SELECTED  
EXPRESSWAYS IN SINGAPORE

This drawing was reduced from  
original one of scale S=1:1000.

Scale :  
S=1:2000

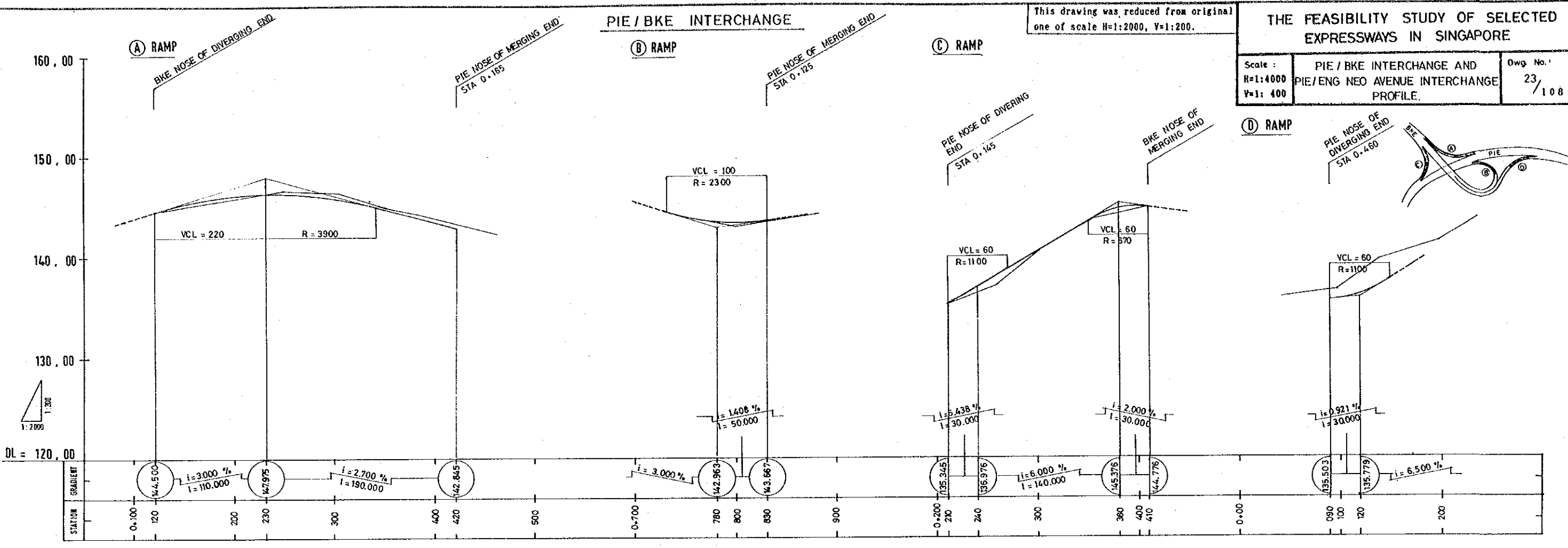
PIE / KIM KEAT INTERCHANGE  
PLAN.

Dwg. No. :  
22/108

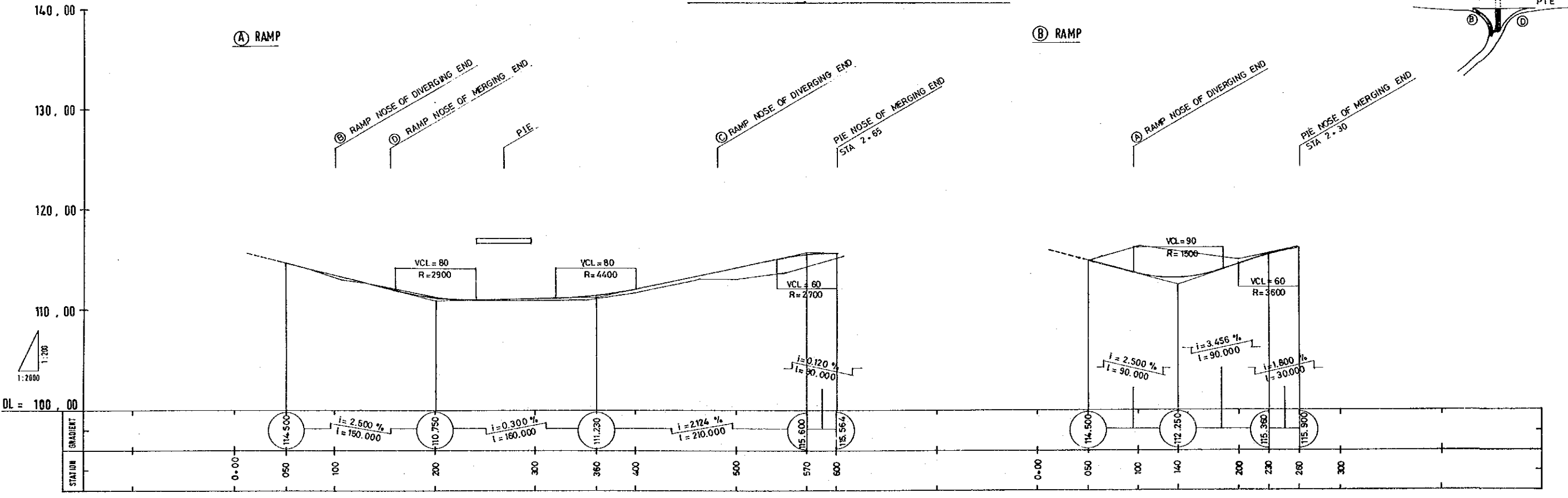
THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE

Scale :	PIE / BKE INTERCHANGE AND	Dwg. No.:
R=1:4000	PIE/ENG NEO AVENUE INTERCHANGE	23/108
V=1:400	PROFILE.	

This drawing was reduced from original one of scale H=1:2000, V=1:200.



### PIE / ENG NEO AVENUE INTERCHANGE

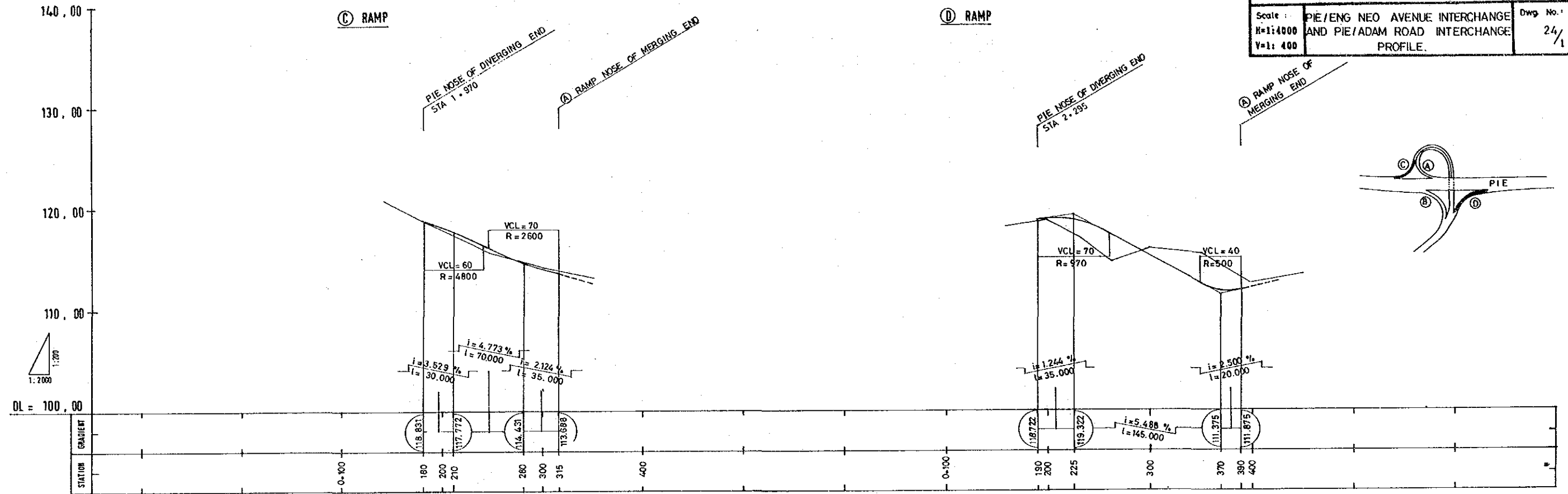


PIE/ENG NEO AVENUE INTERCHANGE

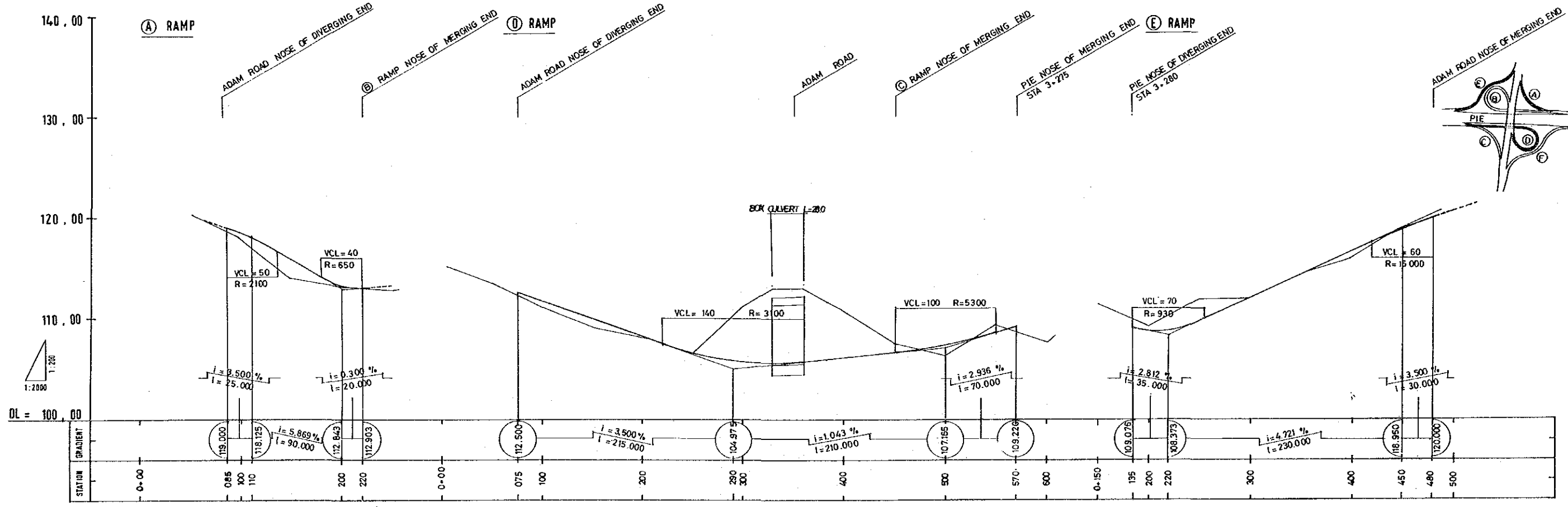
This drawing was reduced from original one of scale H=1:2000, V=1:200.

THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE

Scale:	PIE/ENG NEO AVENUE INTERCHANGE AND PIE/ADAM ROAD INTERCHANGE PROFILE.	Dwg No.:	24/108
H=1:4000			
V=1:400			



PIE / ADAM ROAD INTERCHANGE

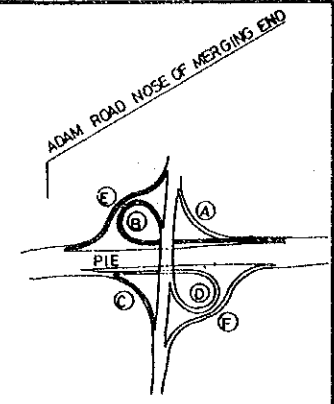
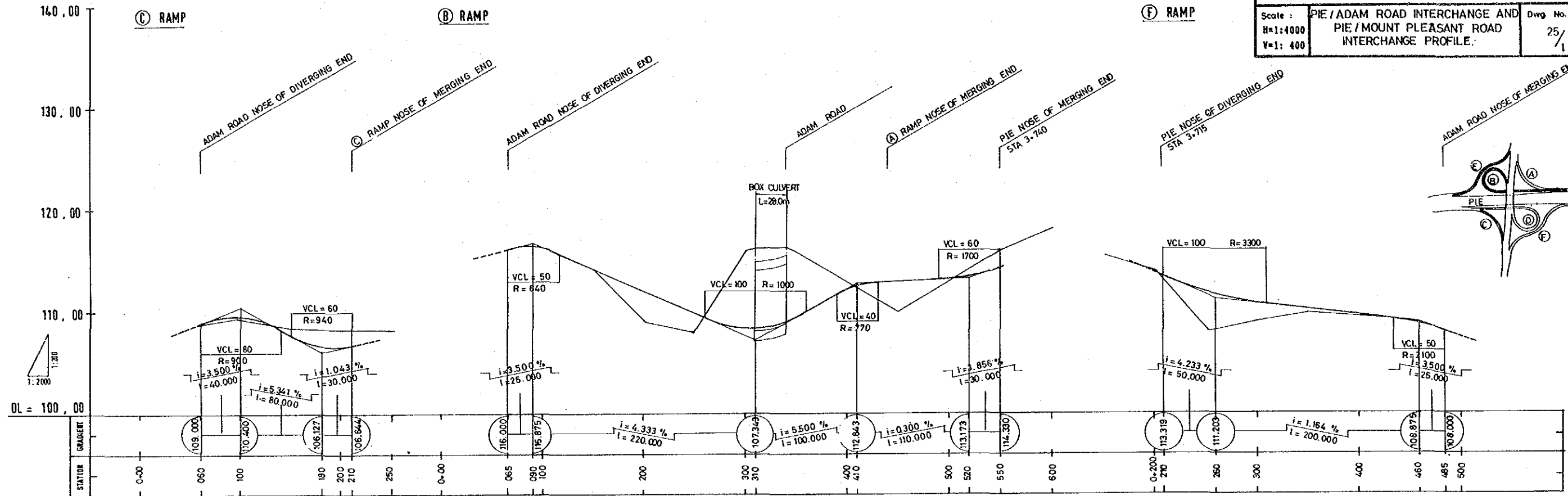


PIE / ADAM ROAD INTERCHANGE

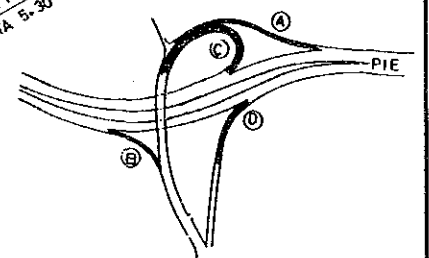
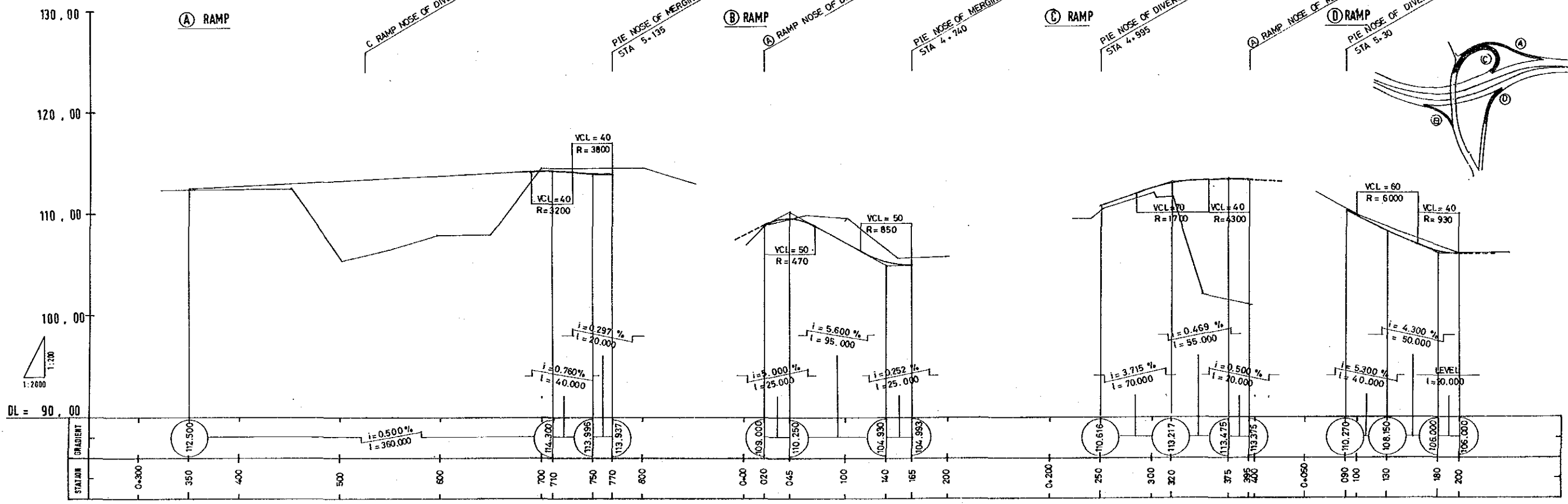
This drawing was reduced from original one of scale H=1:2000, V=1:200.

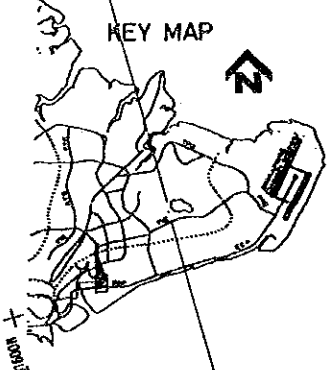
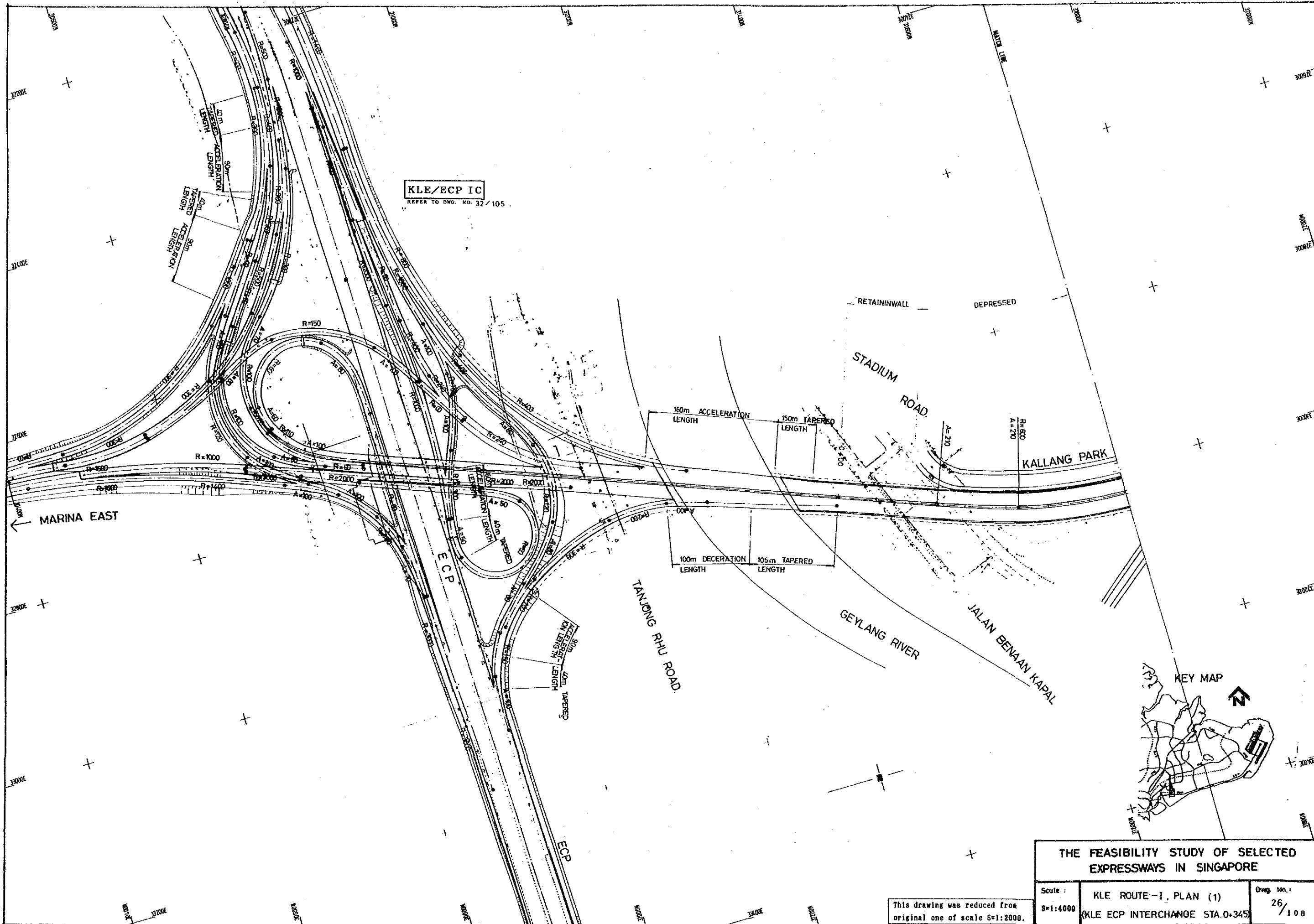
THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE

Scale : H=1:4000 V=1:400  
 PIE / ADAM ROAD INTERCHANGE AND PIE / MOUNT PLEASANT ROAD INTERCHANGE PROFILE.  
 Dwg. No. : 25 / 108



PIE / MOUNT PLEASANT INTERCHANGE

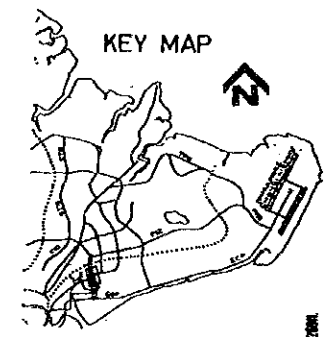
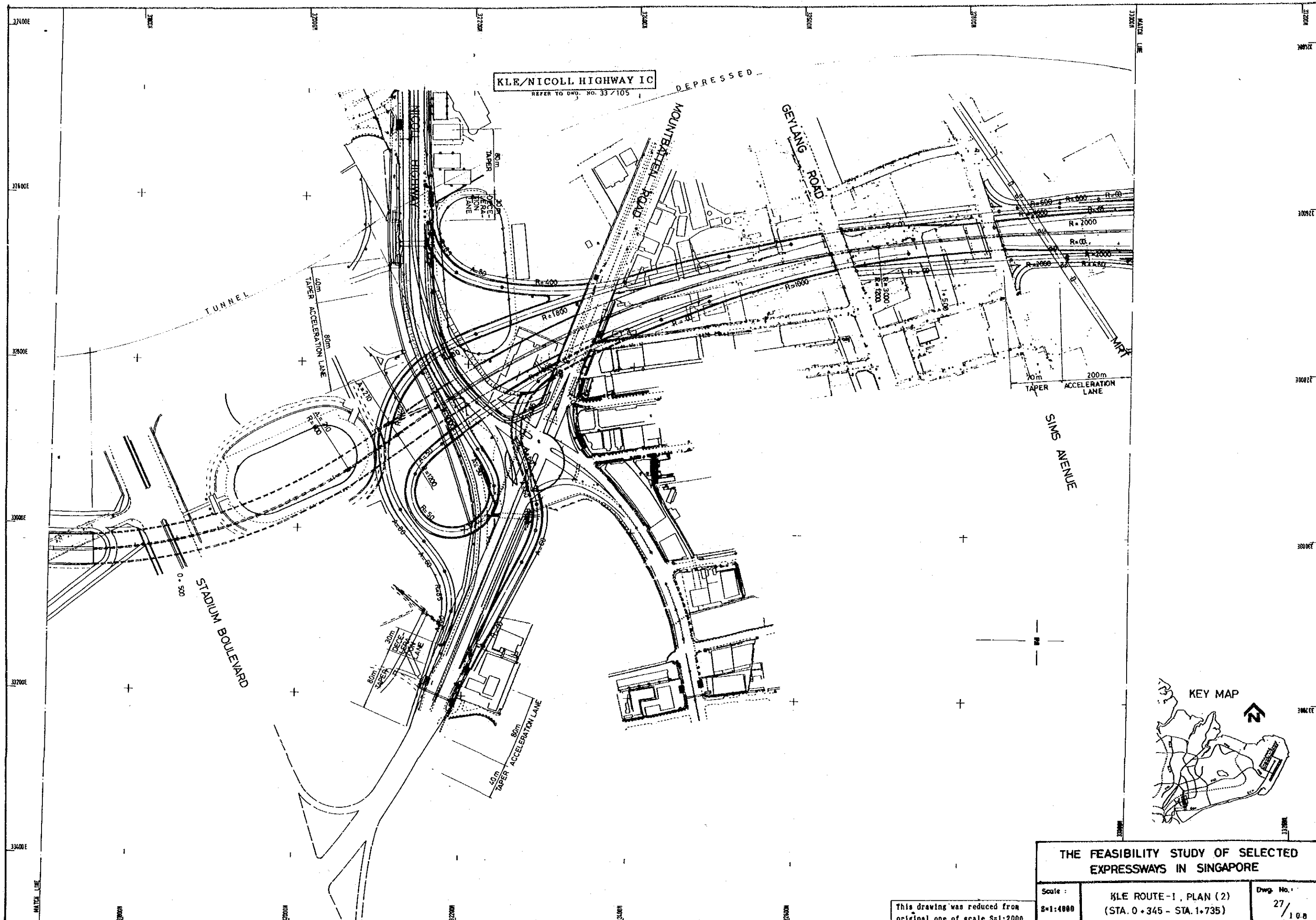




**THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE**

Scale :	KLE ROUTE-1, PLAN (1)	Dwg. No.:
8=1:4000	(KLE ECP INTERCHANGE STA.0+345)	26/108

This drawing was reduced from original one of scale S=1:2000.



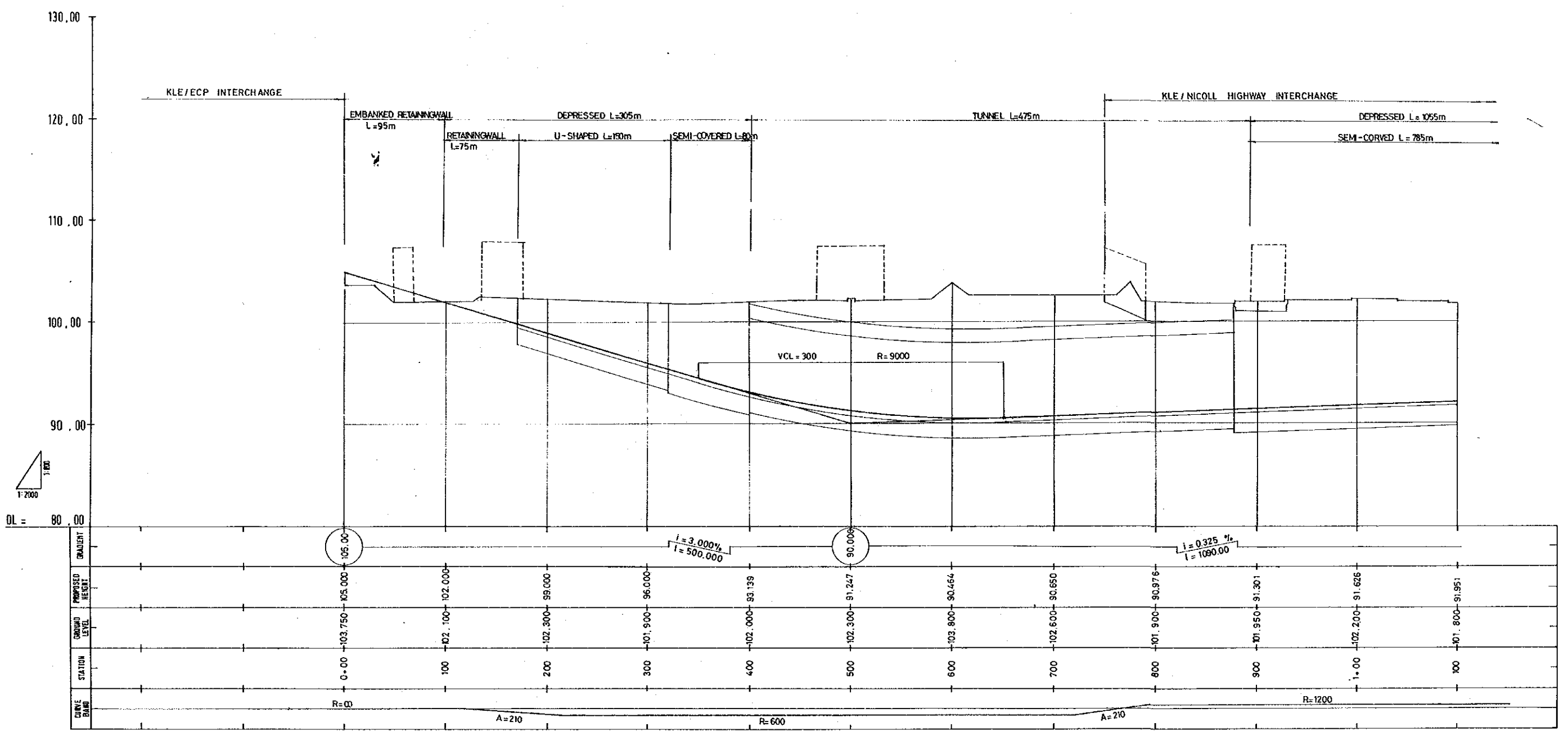
<b>THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE</b>		
Scale :	KLE ROUTE-1, PLAN (2)	Dwg. No. :
S=1:4000	(STA. 0+345 - STA. 1+735)	27 / 108

This drawing was reduced from original one of scale S=1:2000.





JALAN BENIH KAPAL  
 STADIUM ROAD  
 STADIUM BOULEVARD  
 RAMP  
 NICOLL HIGHWAY  
 MOUNTBATTEN ROAD



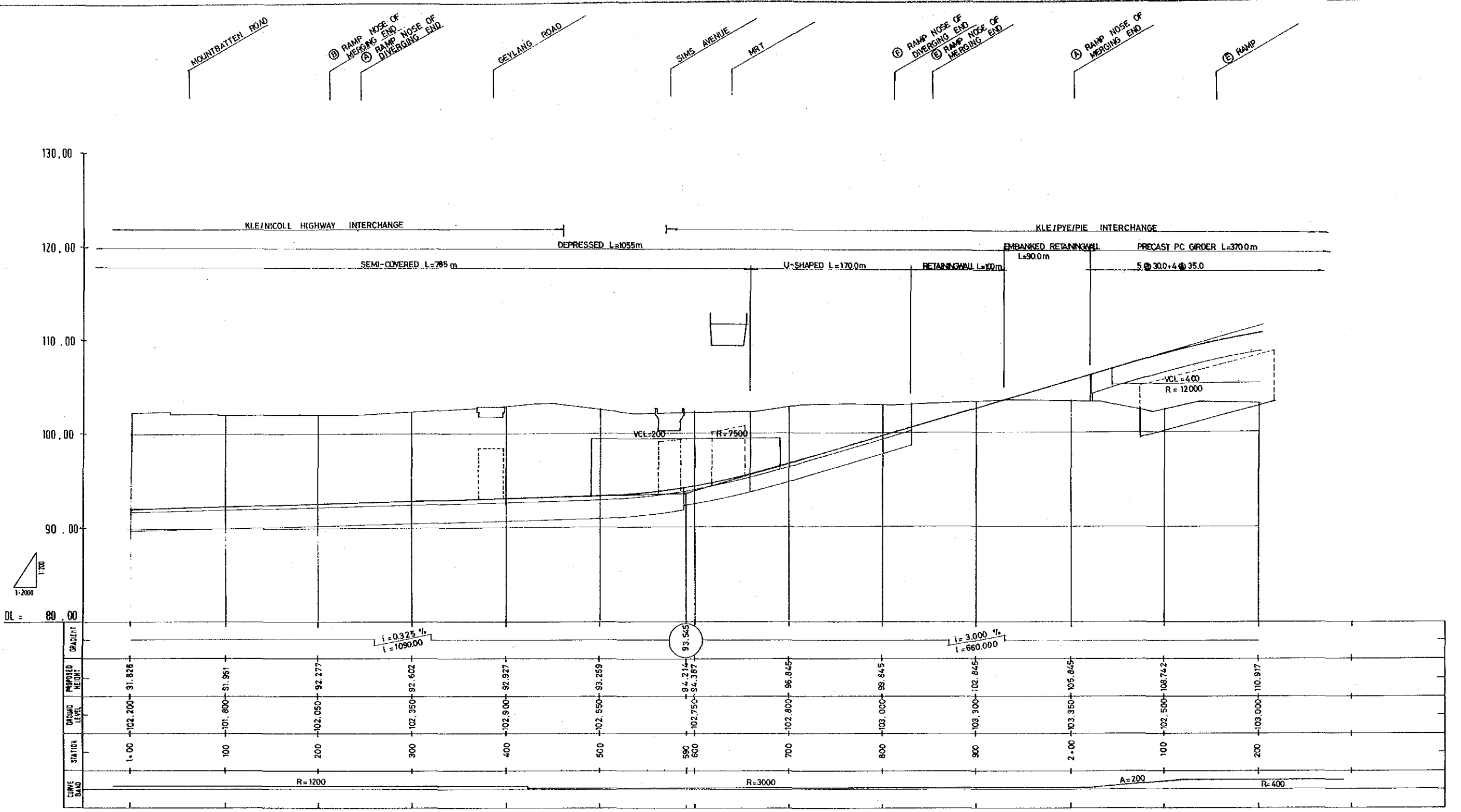
THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE

Scale :  
 H=1:4000  
 V=1:400

KLE ROUTE I, PROFILE (1)  
 (STA. 0+00 - STA. 1+100)

Dwg. No. 29/108

This drawing was reduced from original one of scale H=1:2000, V=1:200.



1:200  
1:200

DL = 80.00

STATION	GROUND LEVEL	PROPOSED HEIGHT	GRADIENT
1+00	102.200	91.828	
100	101.800	91.951	
200	102.050	92.277	
300	102.350	92.602	$i = 0.325\%$ $L = 1050.00$
400	102.900	92.927	
500	102.550	93.259	
590	94.214	93.545	
600	102.750	94.387	
700	102.800	96.845	
800	103.000	98.845	
900	103.300	102.845	$i = 3.000\%$ $L = 660.000$
2+00	103.350	105.845	
100	102.500	108.742	
200	103.000	110.917	

CURVE DATA	STATION	GRADE
R=1200	1+00 - 2+00	
R=3000	590 - 600	
A=200	2+00 - 100	
R=400	100 - 200	

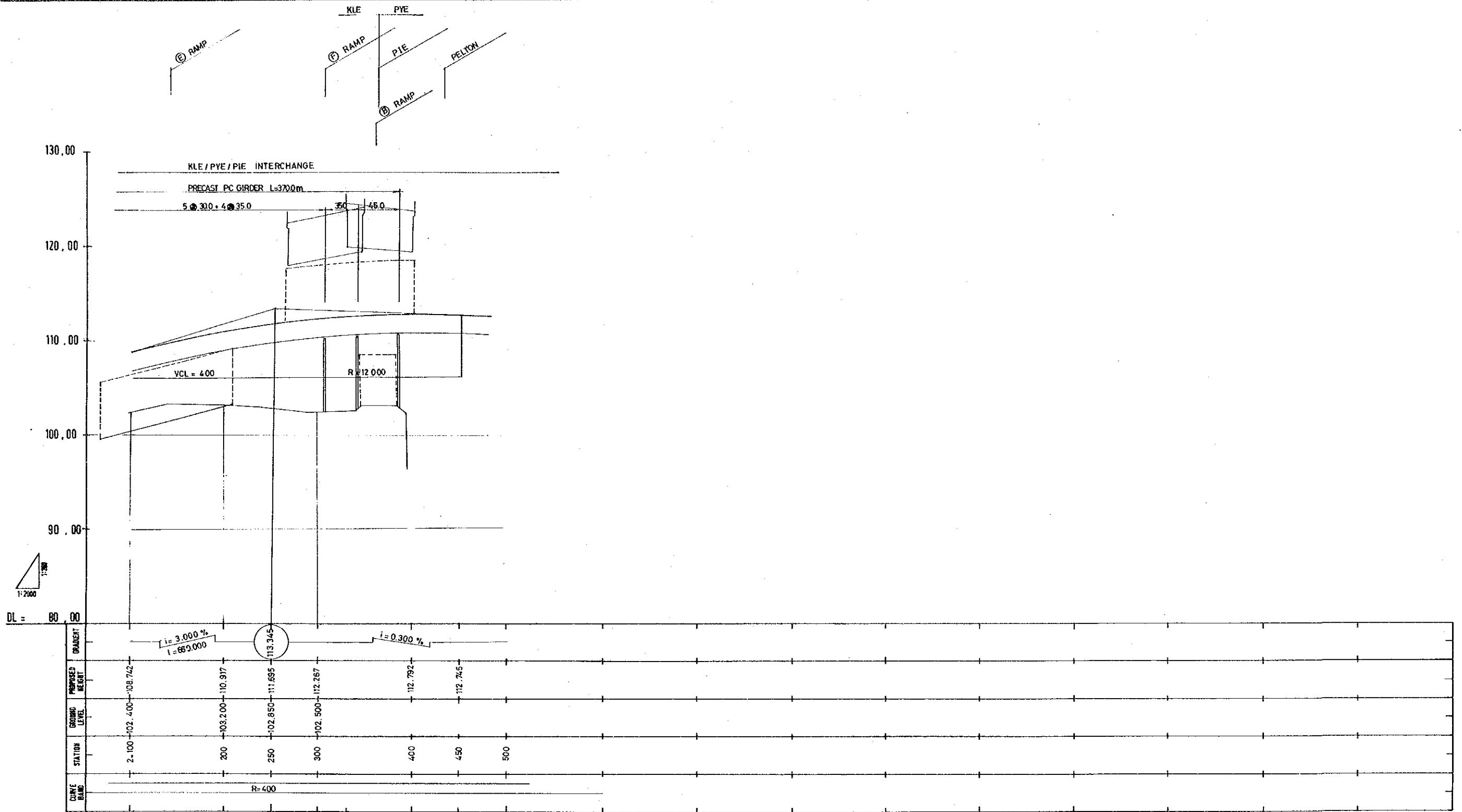
THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE

Scale : H=1:4000 V=: 400

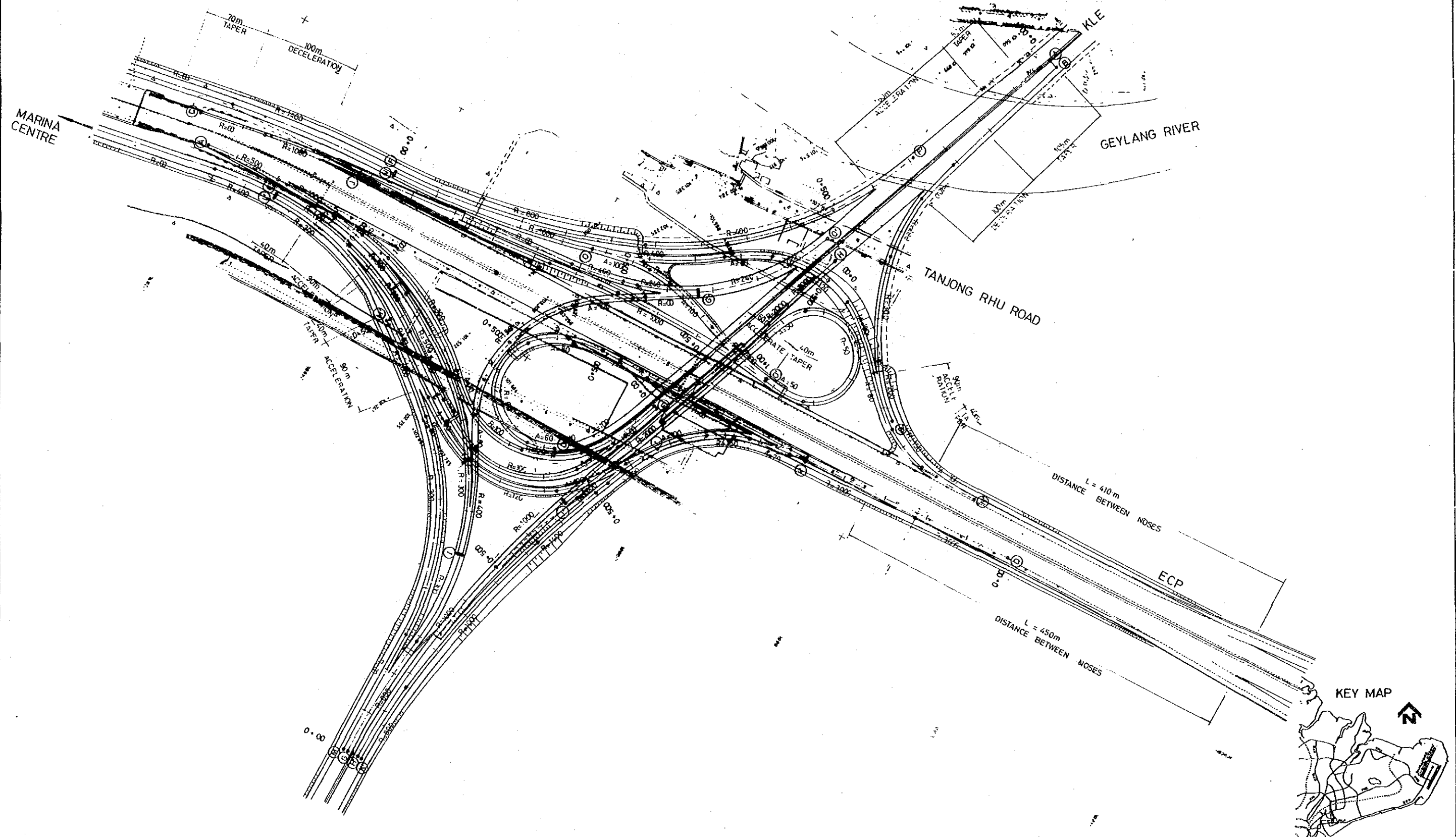
KLE ROUTE 1, PROFILE (2) (STA. 1+00 - STA. 2+200)

Dwg. No.: 30/108

This drawing was reduced from original one of scale H=1:2000, V=1:200.



This drawing was reduced from original one of scale H=1:2000, V=1:200.

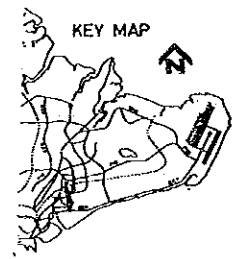
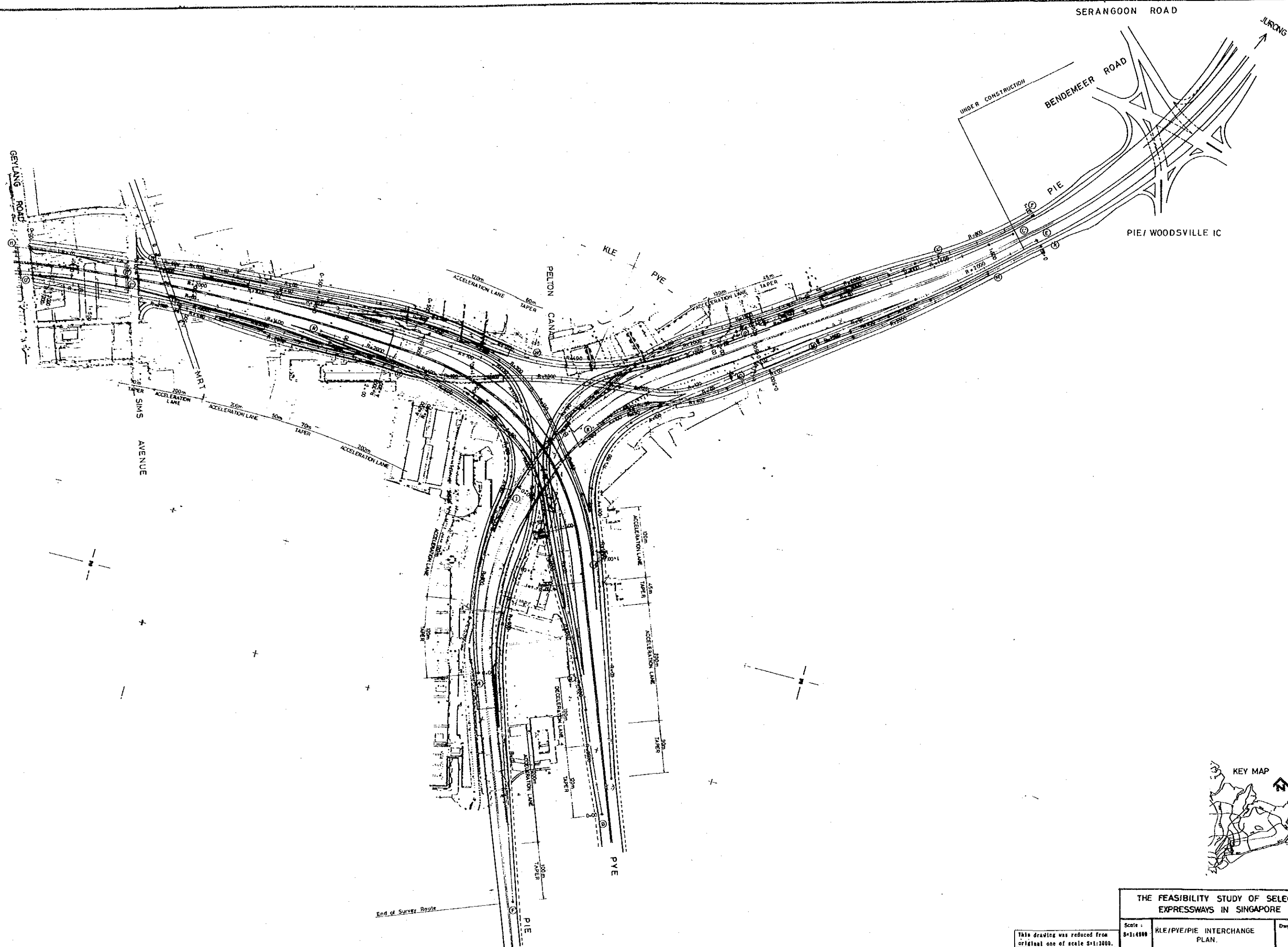


Reference drawing "Lane Marking Plan  
(EXP/PORT ROAD IC - BENJAMIN SHEARNS BRIDGE)"

This drawing was reduced from  
original one of scale 8=1:2000.

<b>THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE</b>		
Scale :	KLE/ECP INTERCHANGE PLAN.	Dwg. No.:
8=1:4000		32/108





THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE  
 Scale: 1:4000  
 KLE/PYE/PIE INTERCHANGE PLAN.  
 Dwg. No. 34/88

This drawing was reduced from original one of scale S1:200.

End of Survey Route

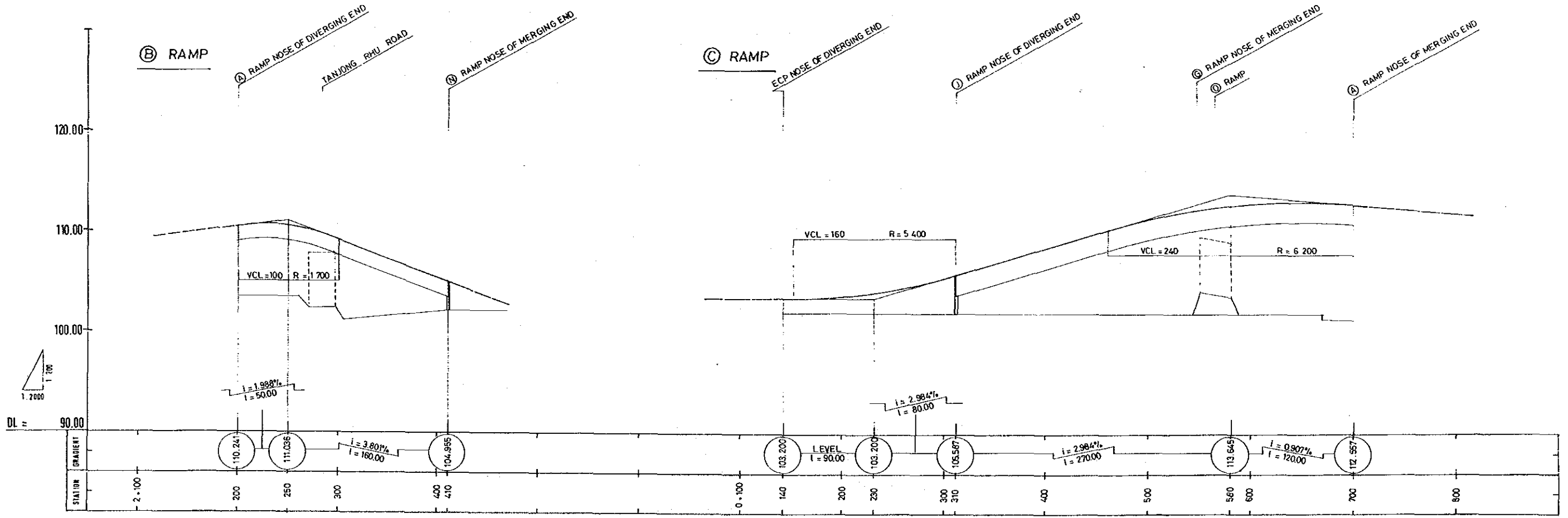
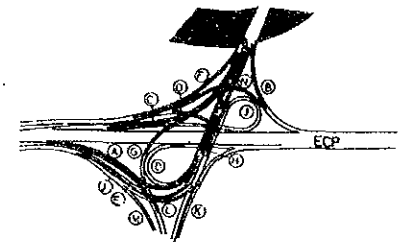
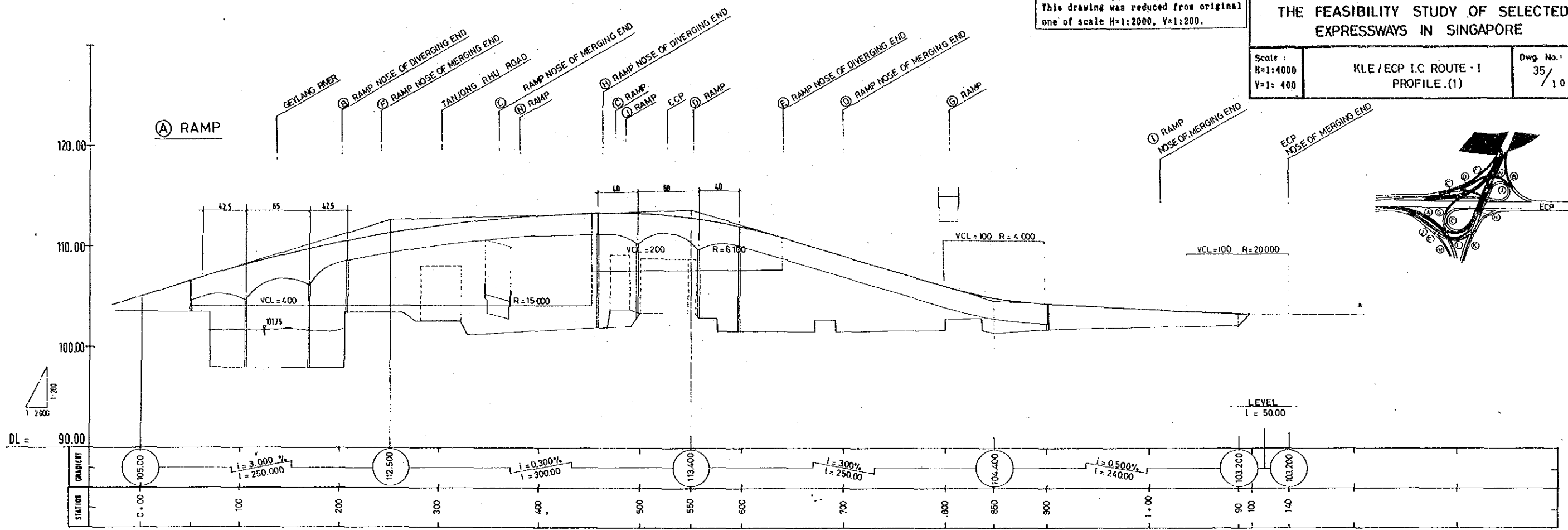
This drawing was reduced from original one of scale H=1:2000, V=1:200.

THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE

Scale :  
H=1:4000  
V=1:400

KLE / ECP I.C. ROUTE - I  
PROFILE .(1)

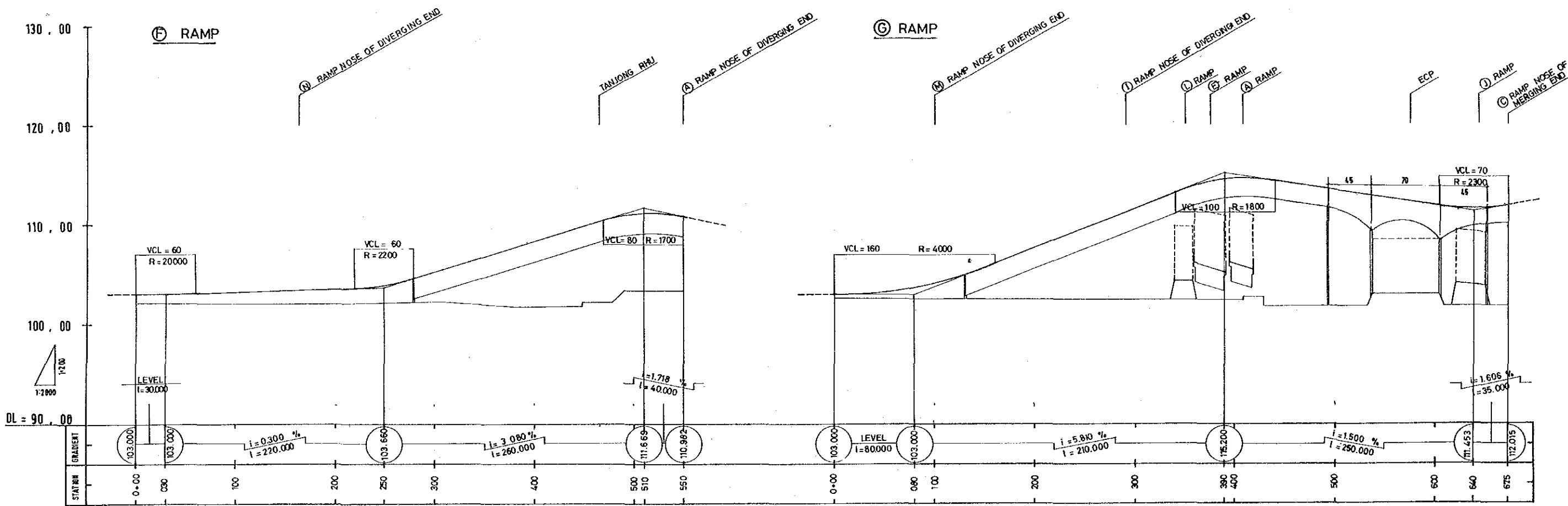
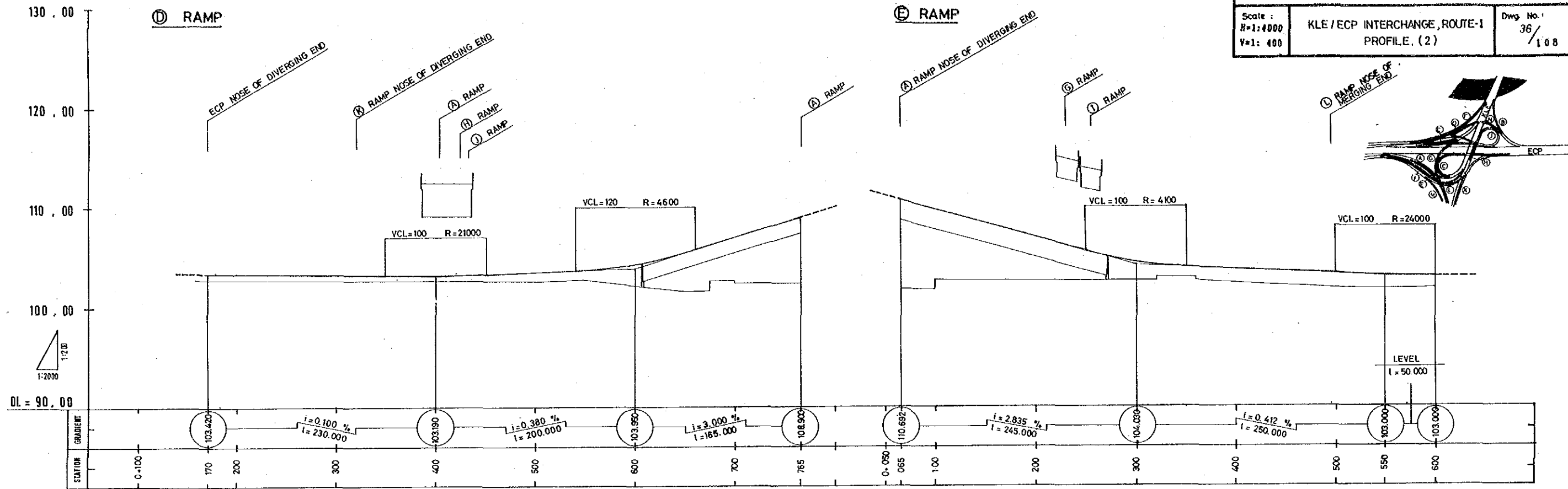
Dwg. No. :  
35 / 108



This drawing was reduced from original one of scale H=1:2000, V=1:200.

THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE

Scale : H=1:4000 V=1:400  
 KLE / ECP INTERCHANGE, ROUTE-1 PROFILE. (2)  
 Dwg. No. 36/108

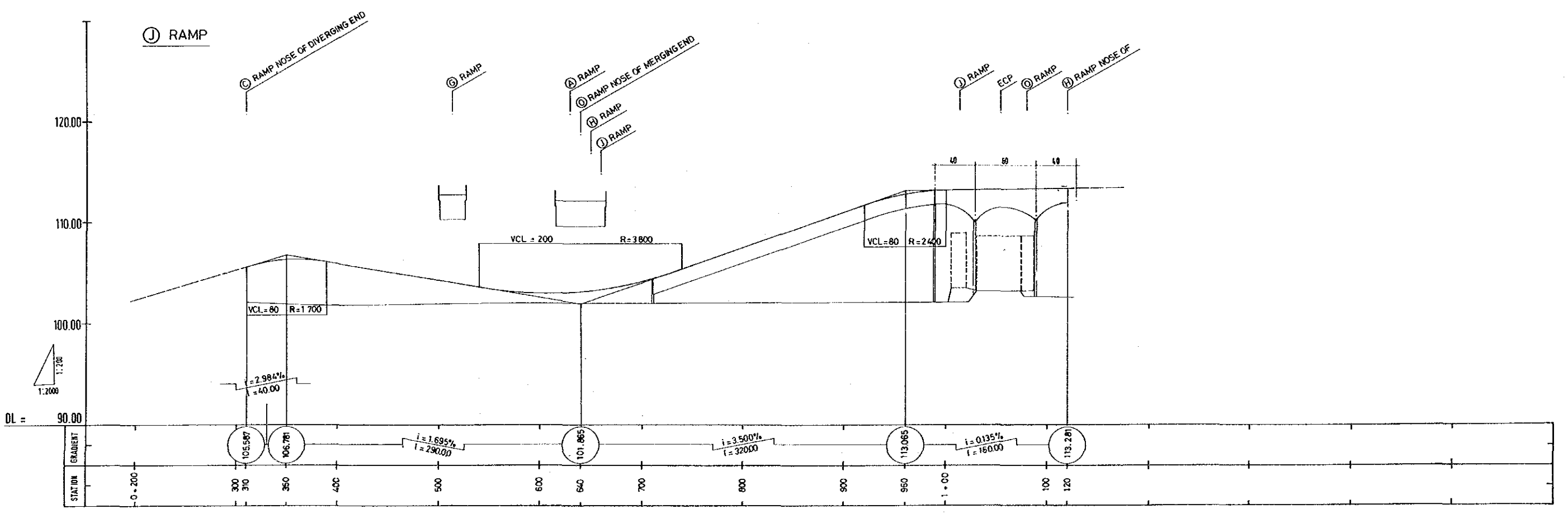
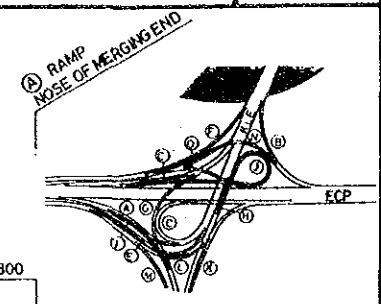
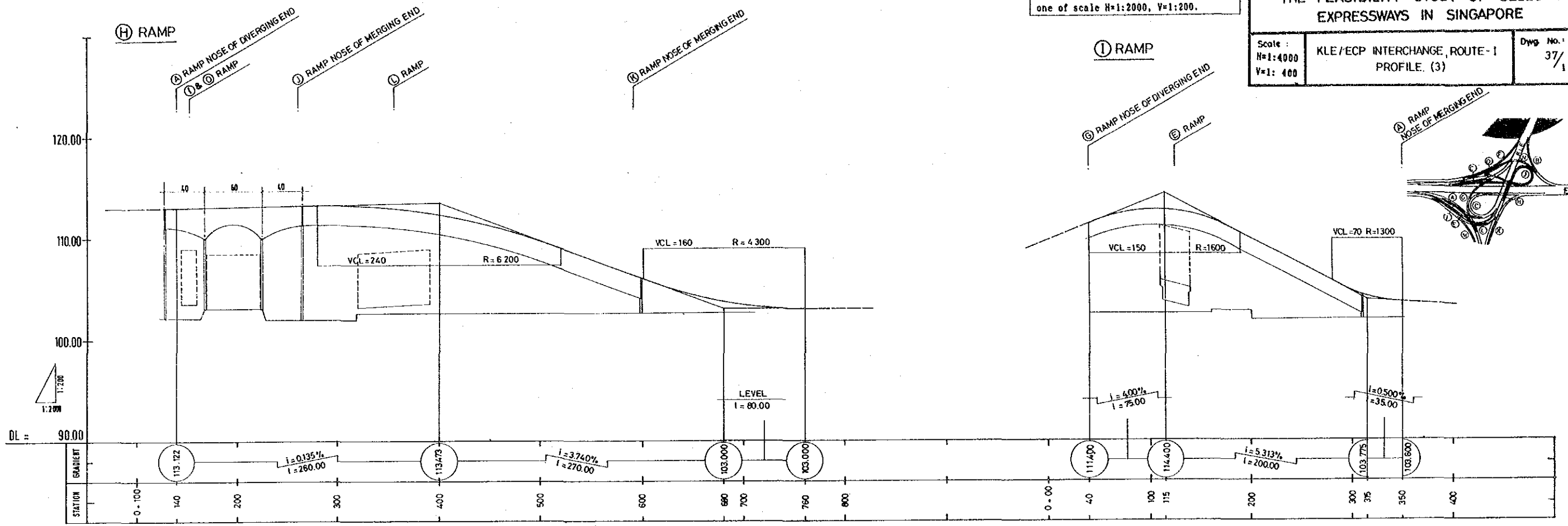




This drawing was reduced from original one of scale H=1:2000, V=1:200.

THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE

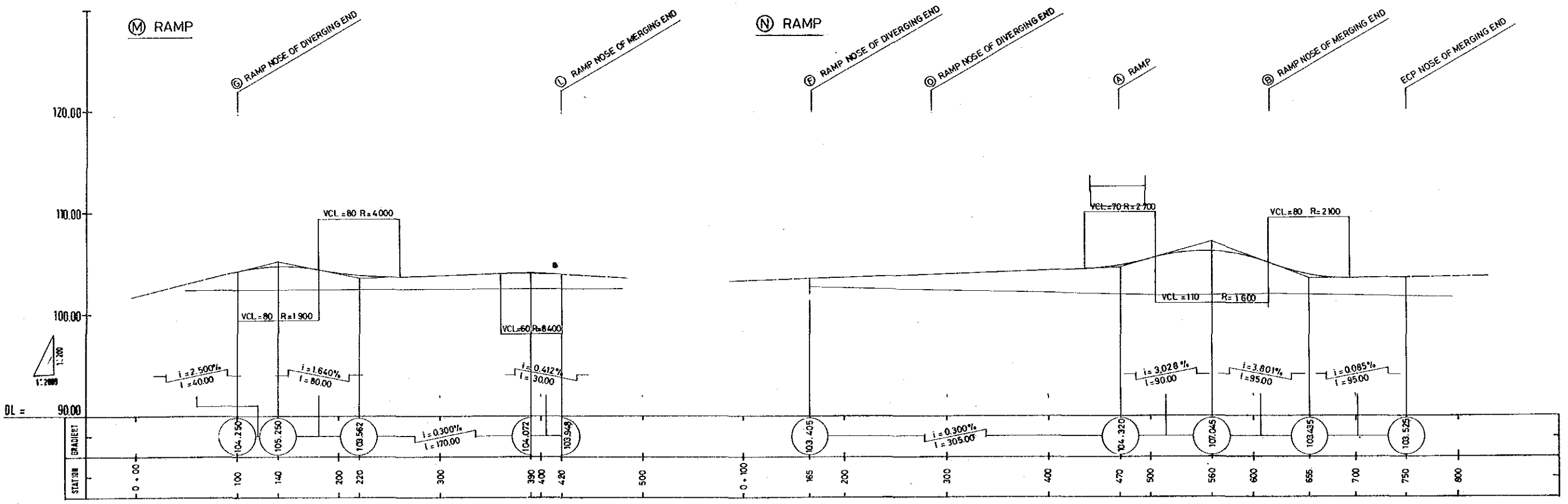
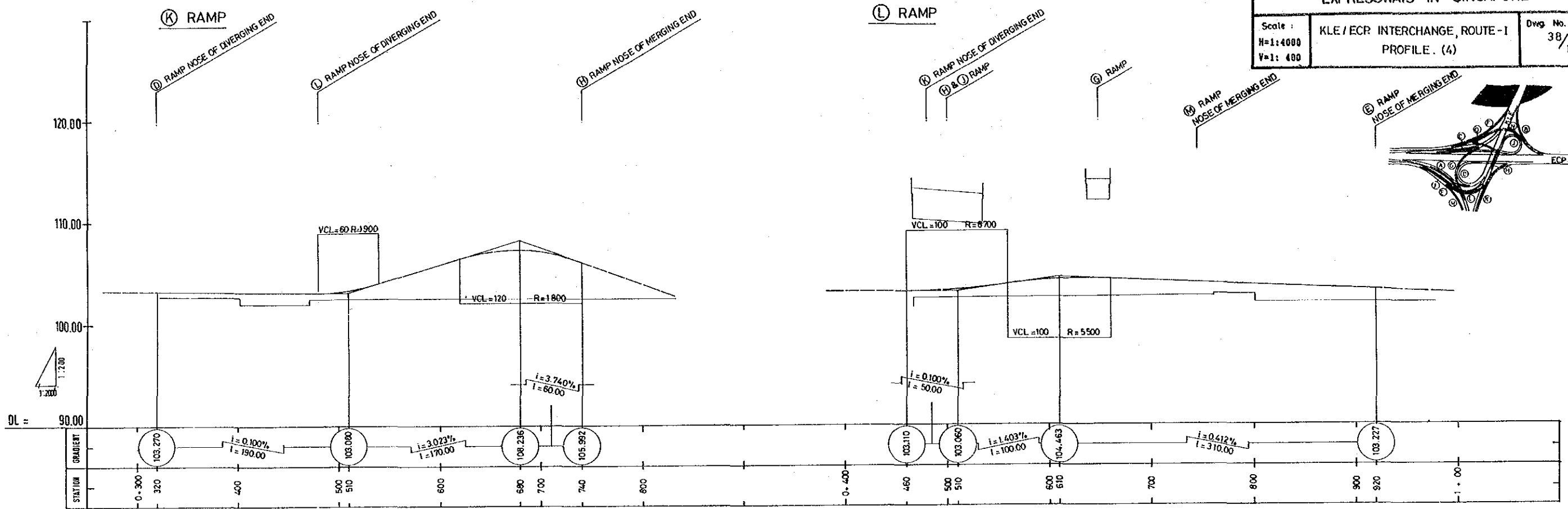
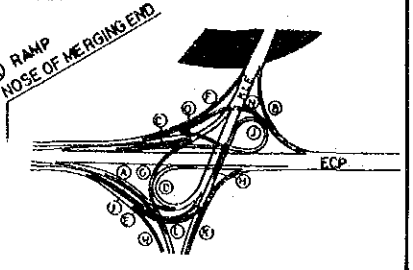
Scale: H=1:4000, V=1:400  
 KLE/ECP INTERCHANGE, ROUTE-1 PROFILE. (3)  
 Dwg No. 37/108



This drawing was reduced from original one of scale H=1:2000, V=1:200.

THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE

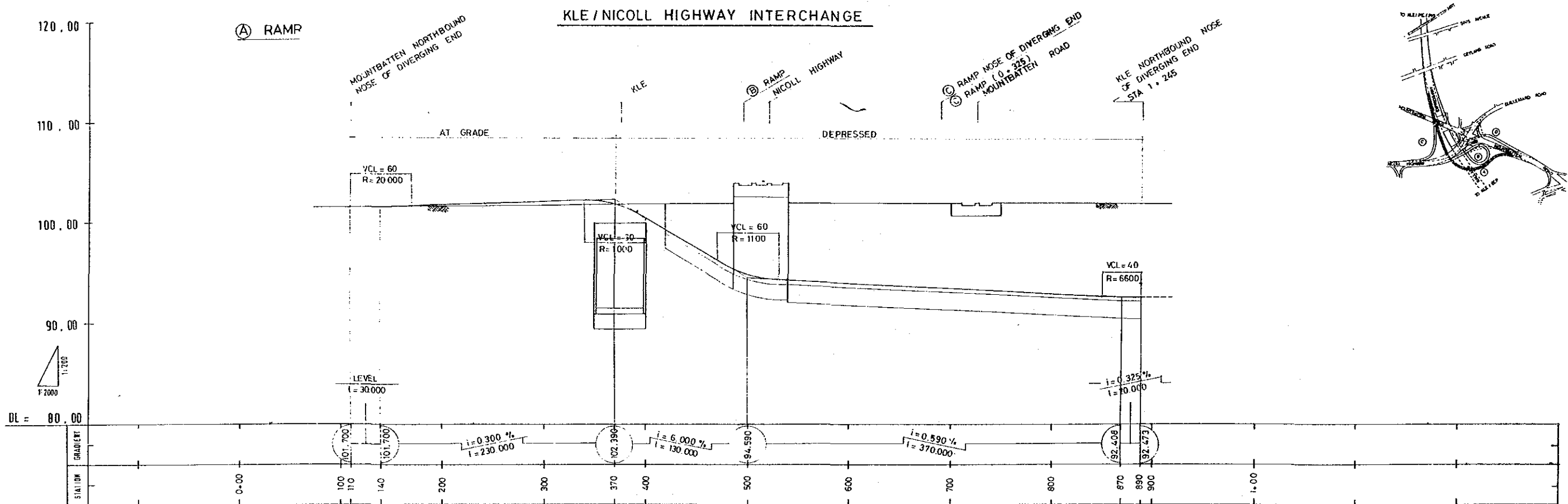
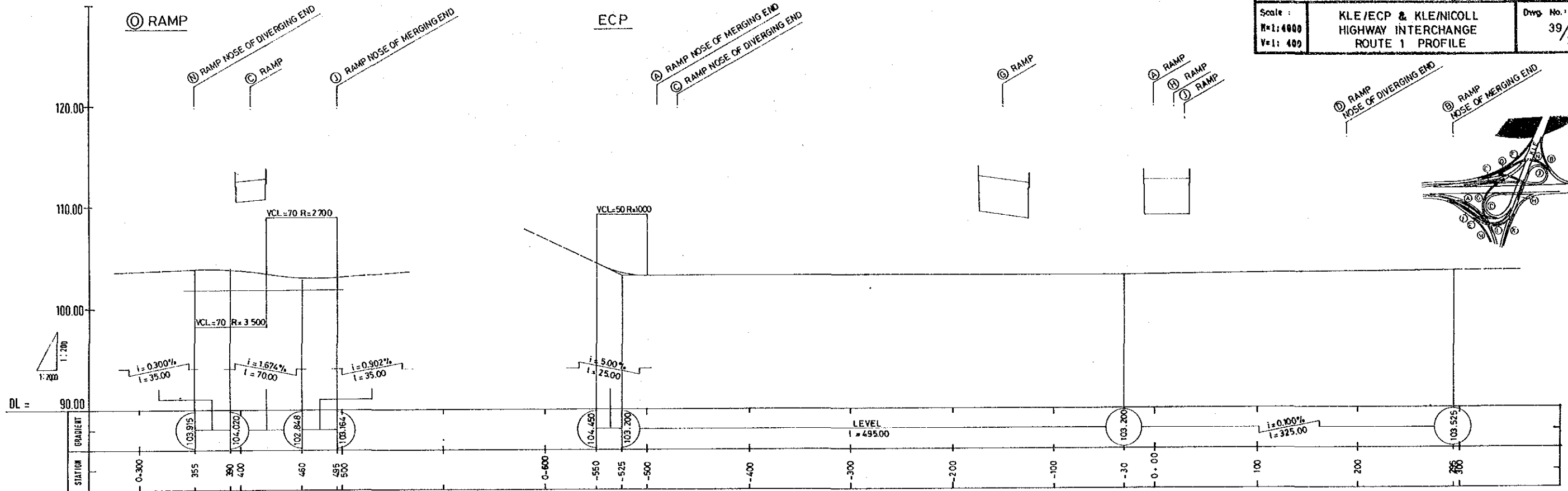
Scale:	KLE/ECR INTERCHANGE, ROUTE-1	Dwg No.:
H=1:4000	PROFILE (4)	38/108
V=1:400		



This drawing was reduced from original  
one of scale H=1:2000, V=1:200.

THE FEASIBILITY STUDY OF SELECTED  
EXPRESSWAYS IN SINGAPORE

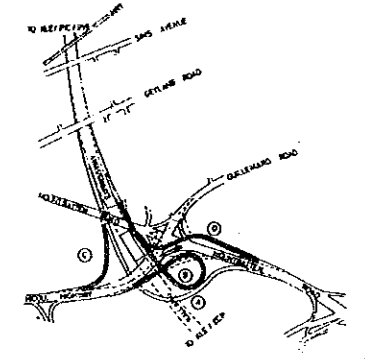
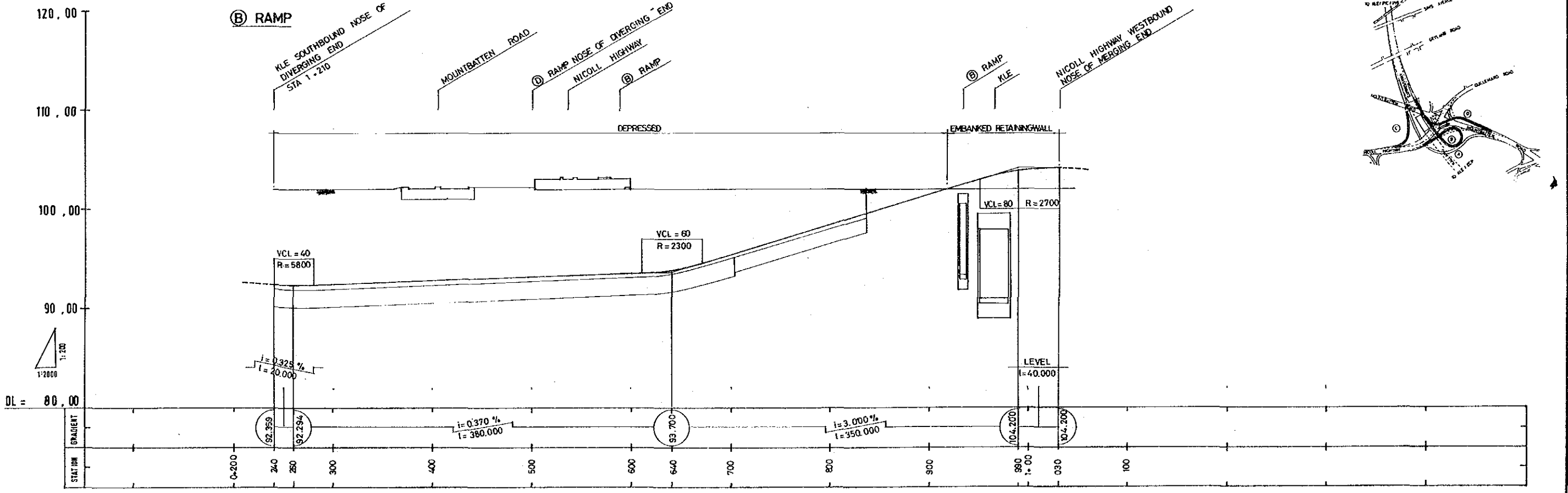
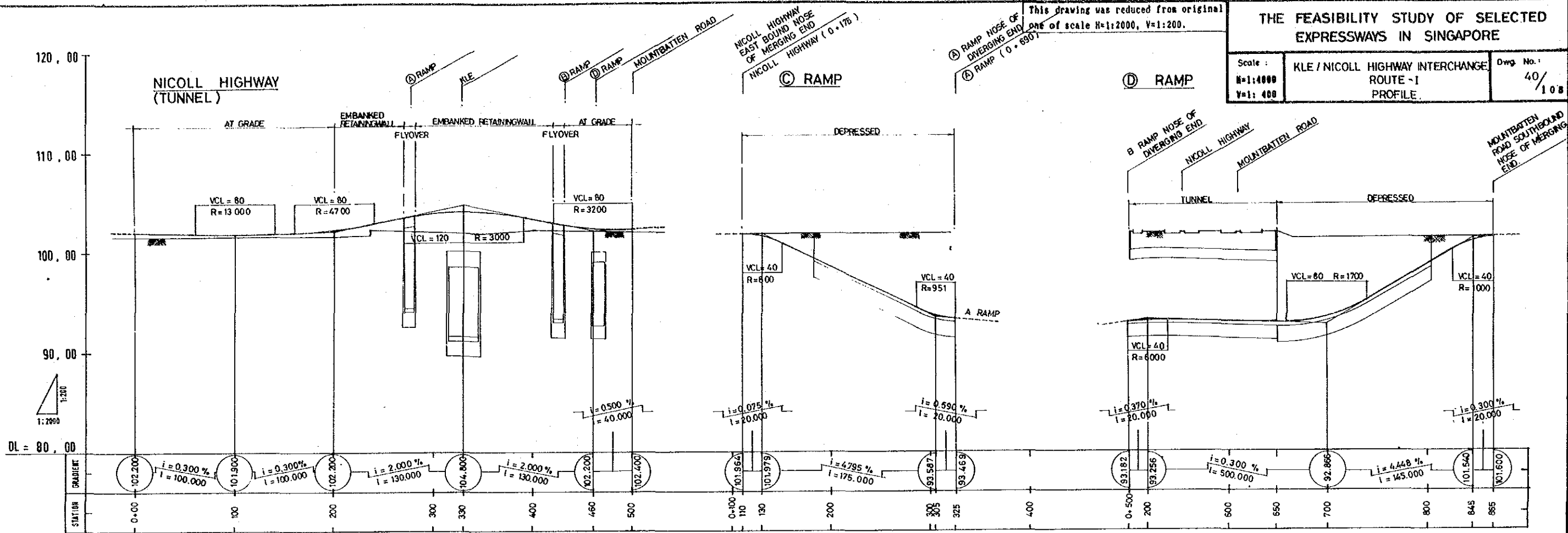
Scale :	KLE/ECP & KLE/NICOLL HIGHWAY INTERCHANGE ROUTE 1 PROFILE	Dwg. No. :
H=1:4000		39/
V=1:400		108



THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE

Scale:	KLE / NICOLL HIGHWAY INTERCHANGE ROUTE - I PROFILE.	Dwg. No.:
H=1:4000 V=1:400		40/108

This drawing was reduced from original one of scale H=1:2000, V=1:200.



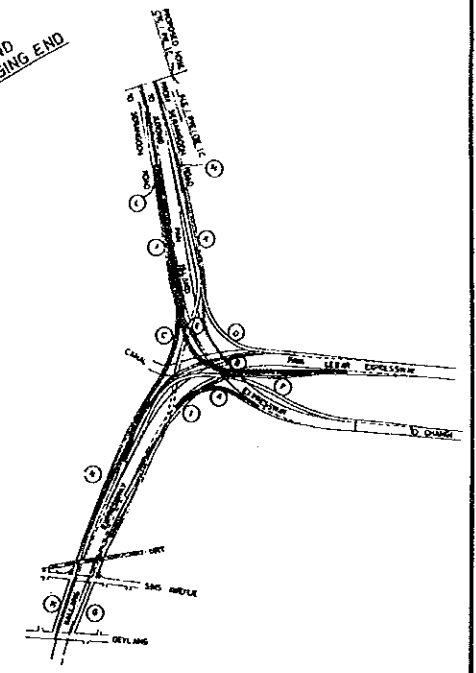
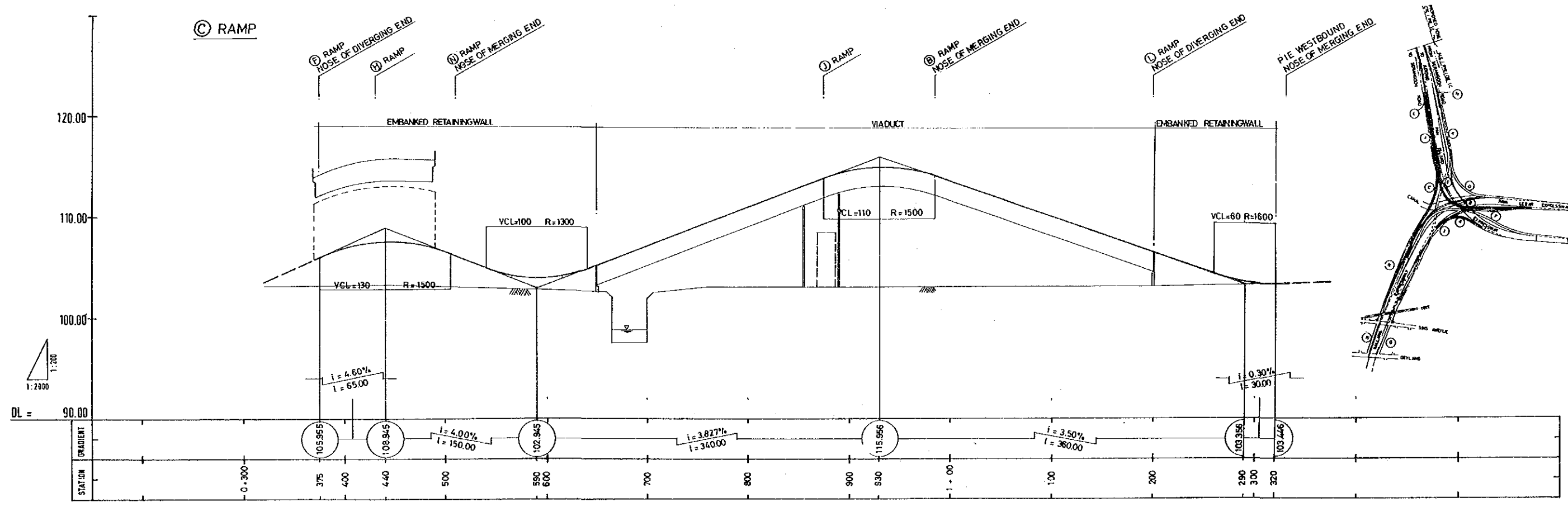
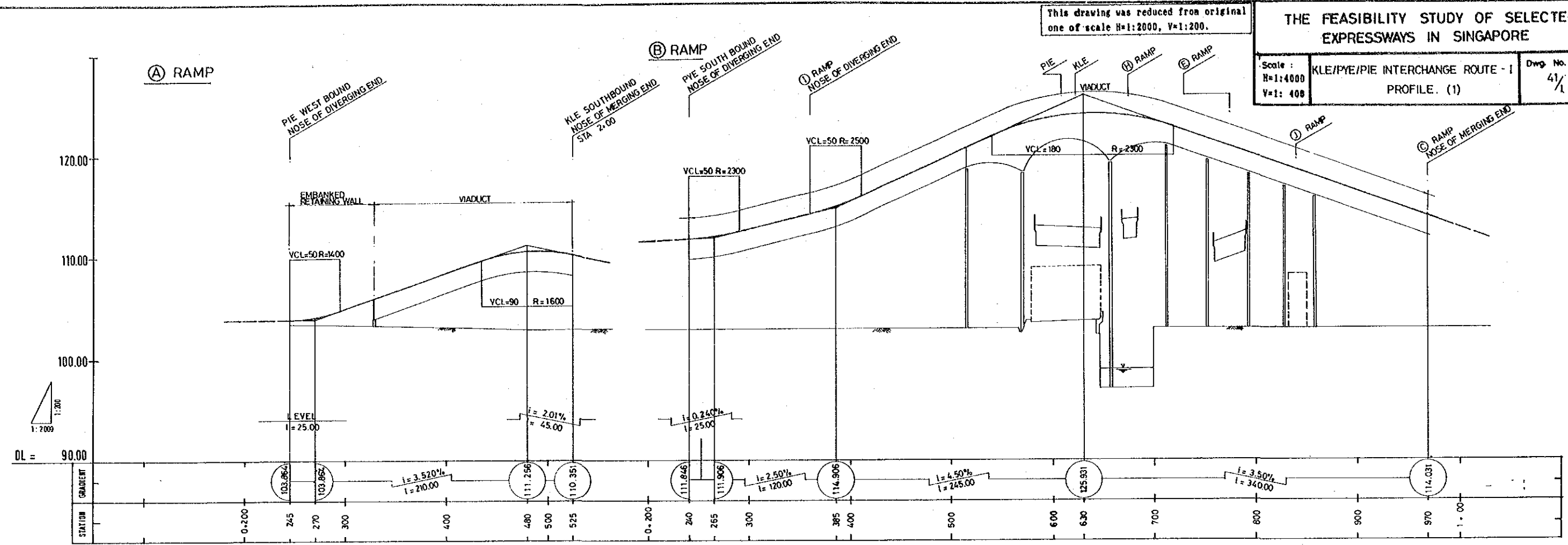
This drawing was reduced from original one of scale H=1:2000, V=1:200.

THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE

Scale :  
H=1:4000  
V=1:400

KLE/PYE/PIE INTERCHANGE ROUTE - 1  
PROFILE. (1)

Dwg No. :  
41/108

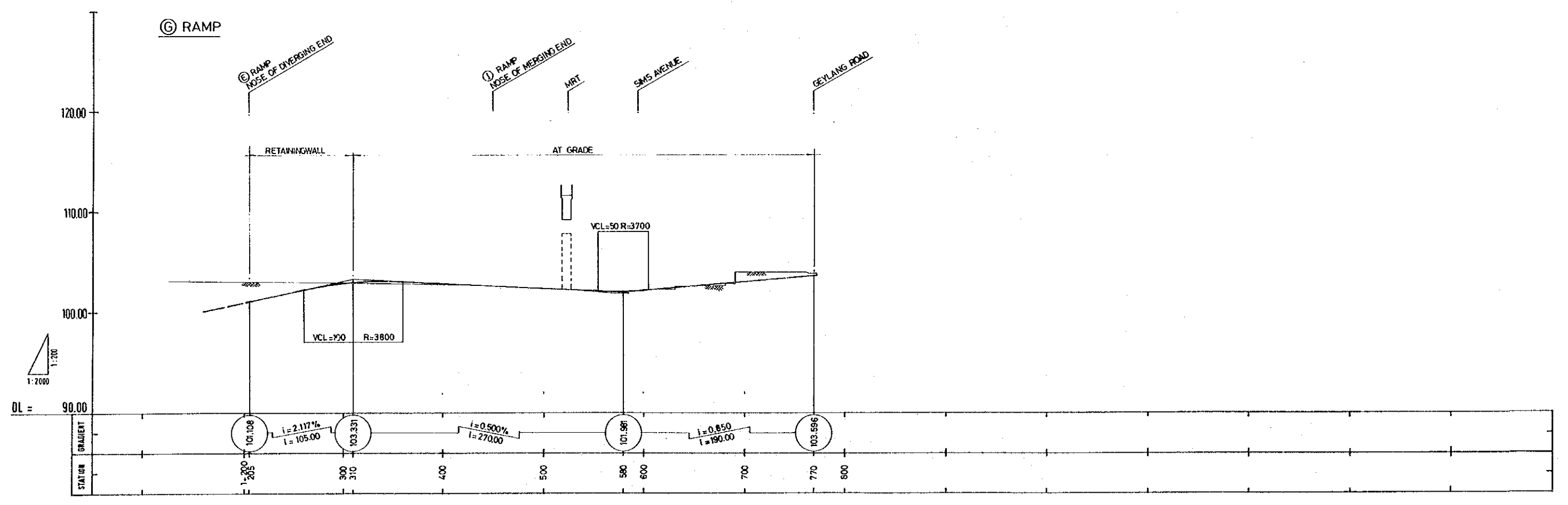
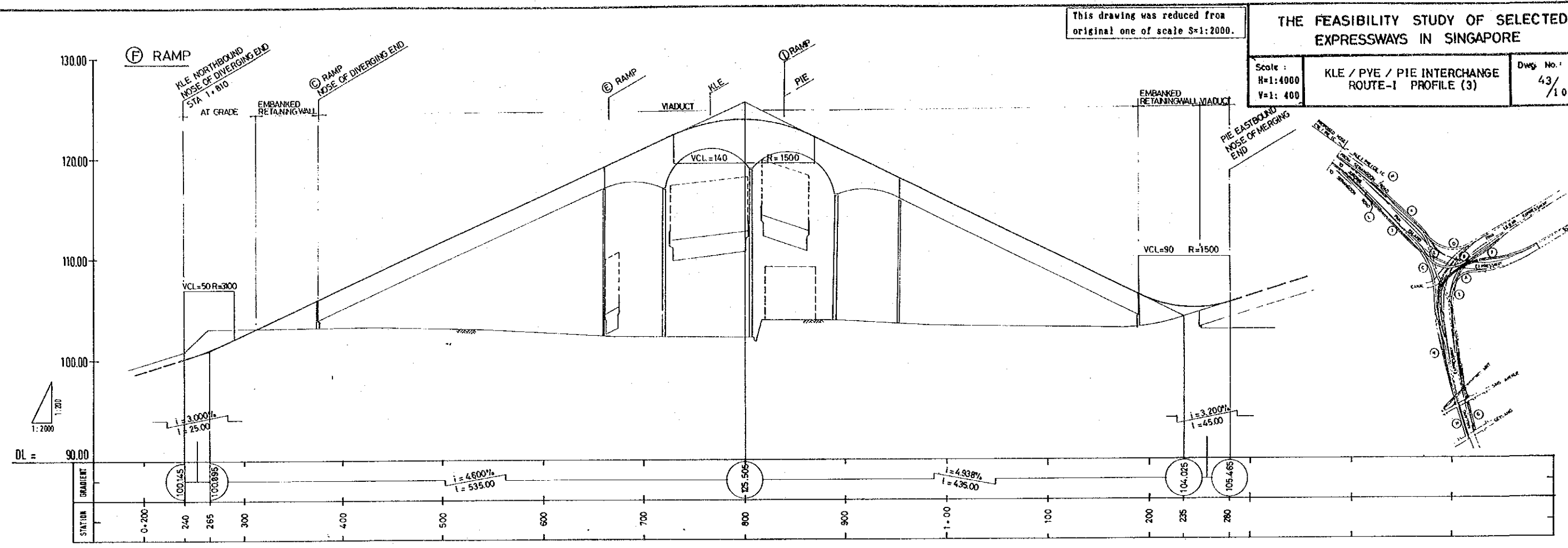




This drawing was reduced from original one of scale S=1:2000.

THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE

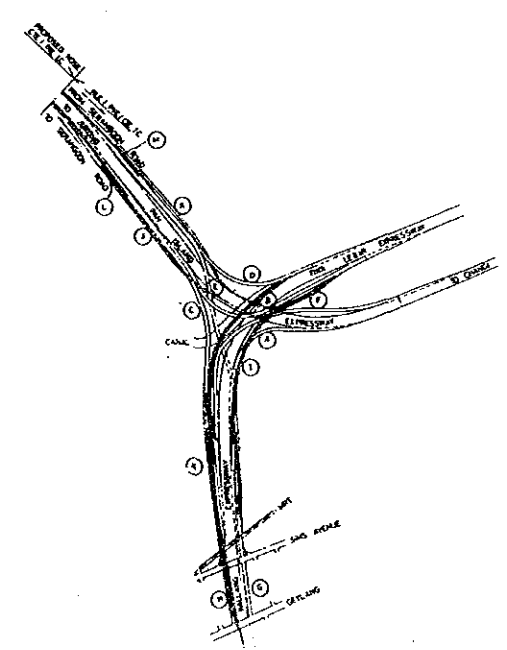
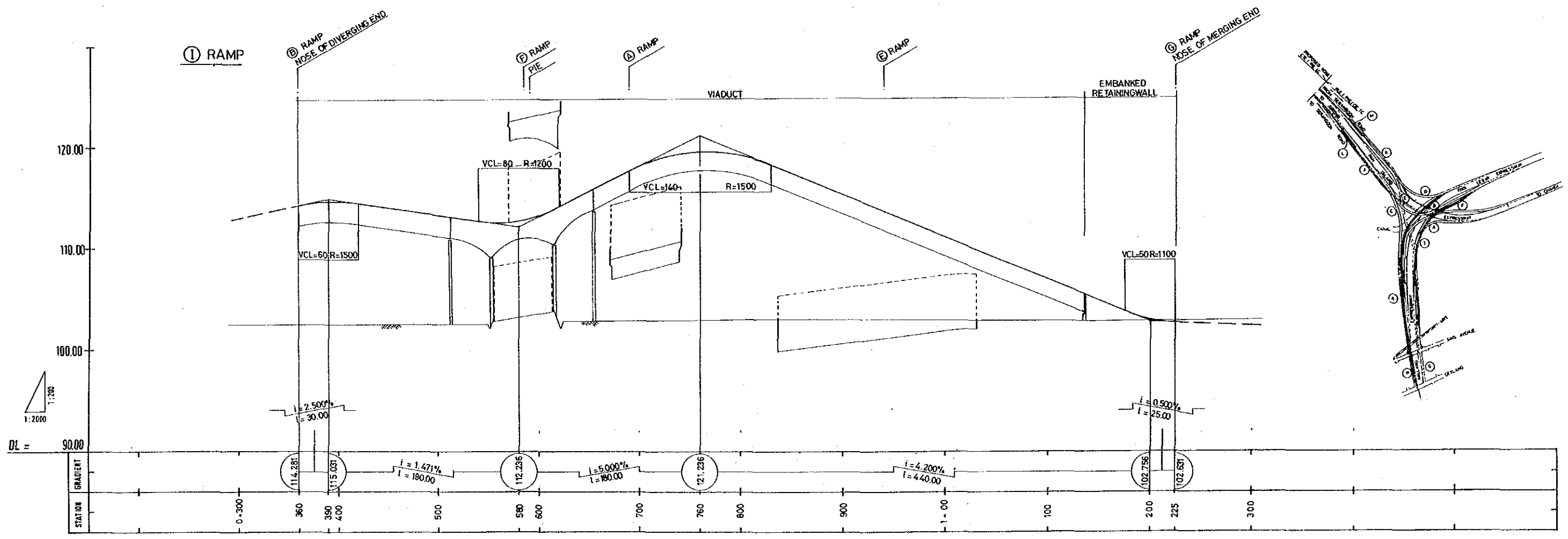
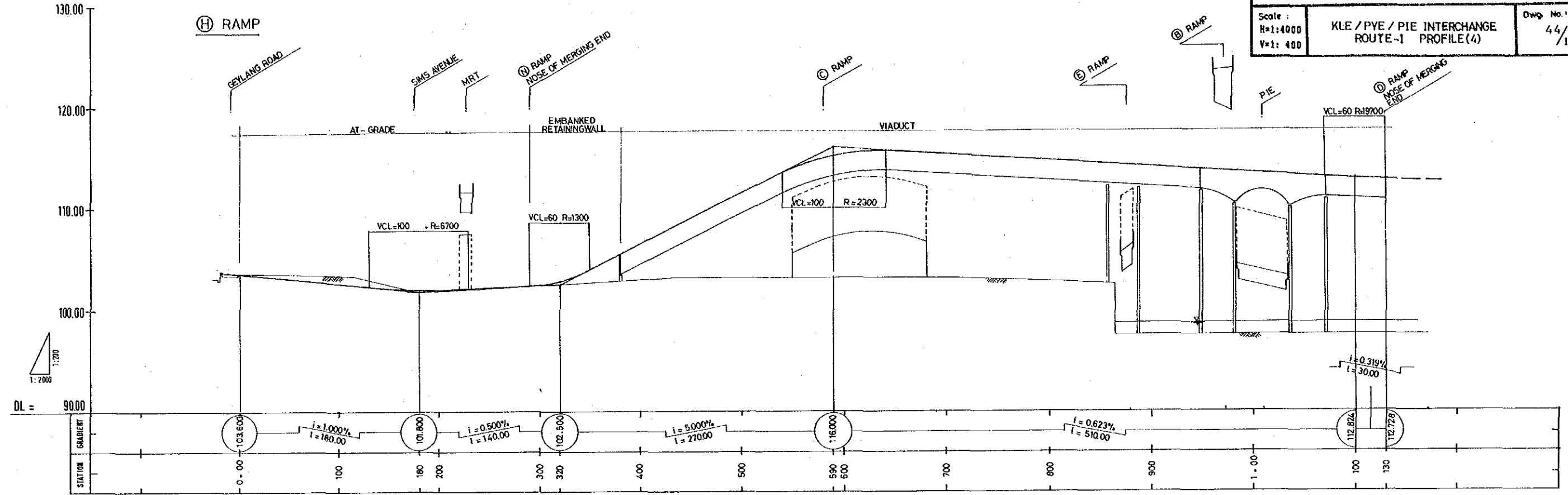
Scale: H=1:4000 V=1:400	KLE / PYE / PIE INTERCHANGE ROUTE-1 PROFILE (3)	Dwg. No.: 43/108
-------------------------------	--	---------------------



This drawing was reduced from original one of scale S=1:2000.

THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE

Scale: H=1:4000 V=1:400	KLE / PYE / PIE INTERCHANGE ROUTE-1 PROFILE(4)	Dwg. No.: 44/108
-------------------------------	---	---------------------

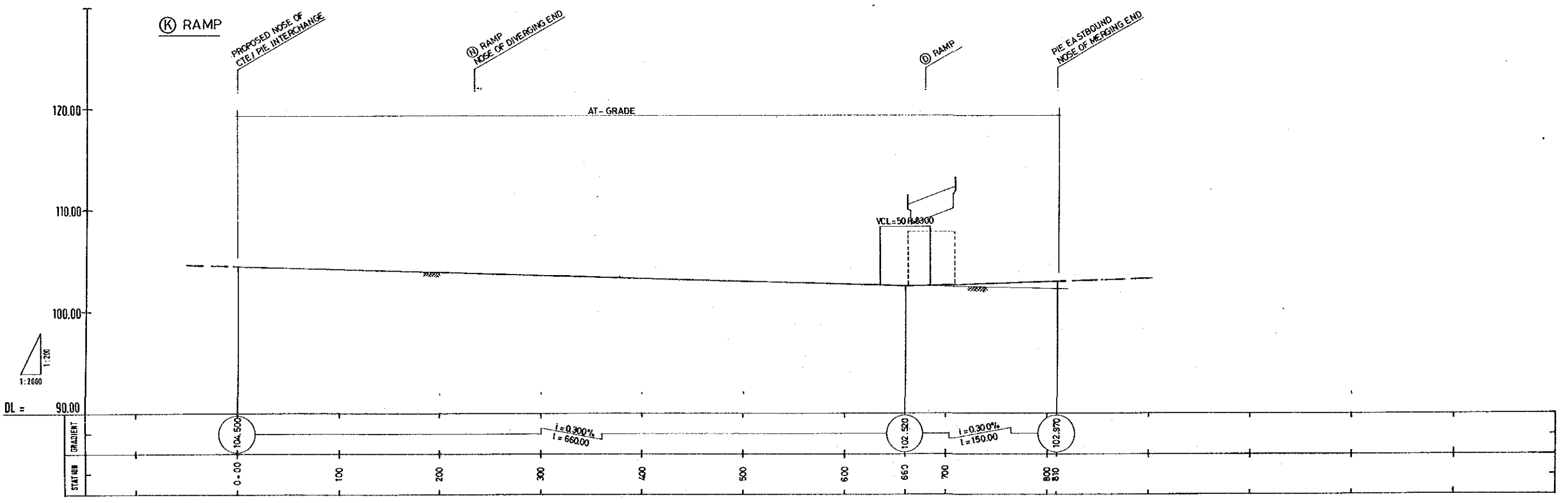
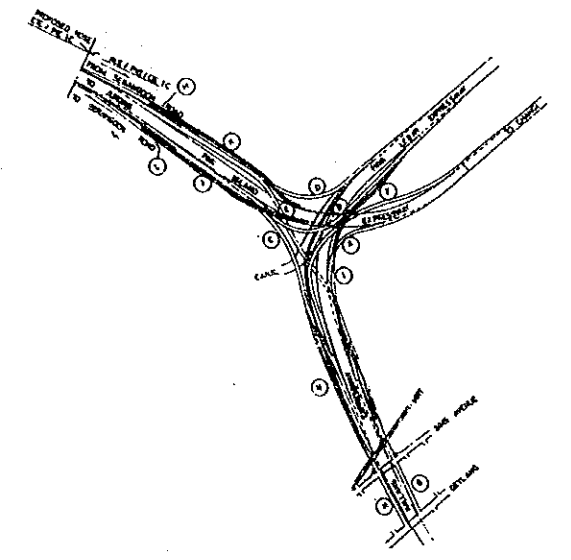
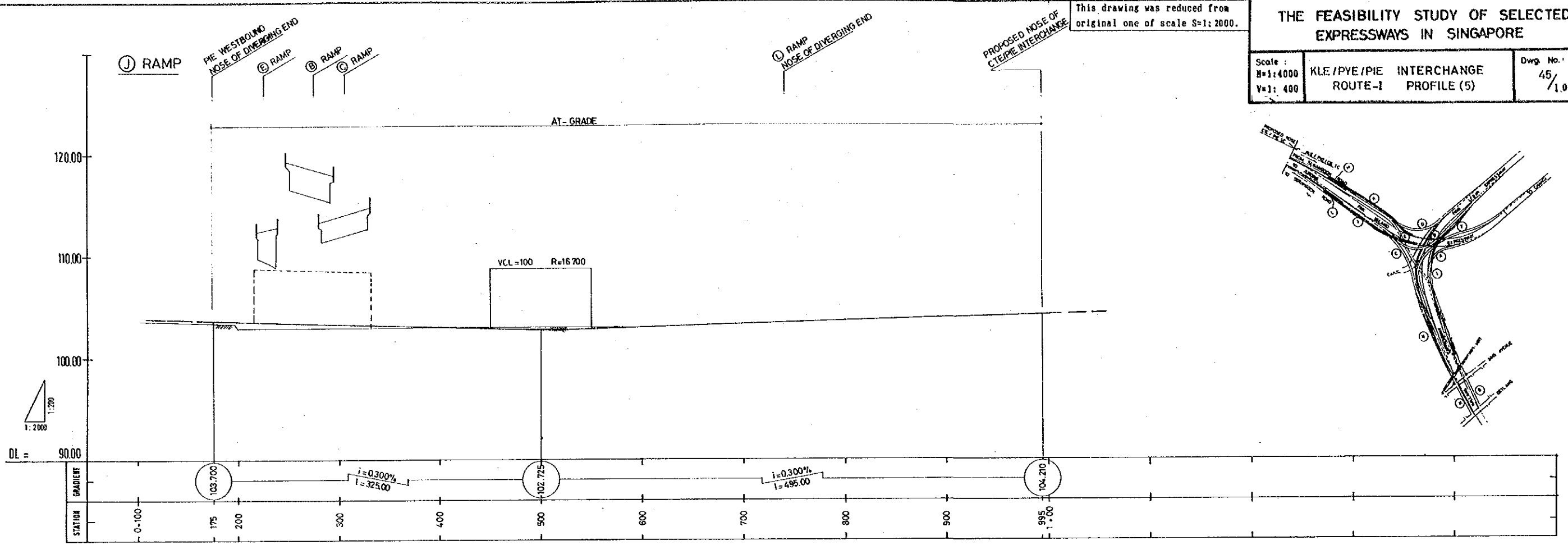




THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE

Scale : H=1:4000 V=1:400  
 KLE/PYE/PIE INTERCHANGE ROUTE-1 PROFILE (5)  
 Dwg. No. 45/1.08

This drawing was reduced from original one of scale S=1:2000.



This drawing was reduced from original one of scale H=1:2000, V=1:200.

THE FEASIBILITY STUDY OF SELECTED EXPRESSWAYS IN SINGAPORE

Scale: H=1:4000 V=1:400	KLE/PYE/PIE INTERCHANGE ROUTE-1 PROFILE (6)	DWG. No.: 46/108
-------------------------------	--	---------------------

