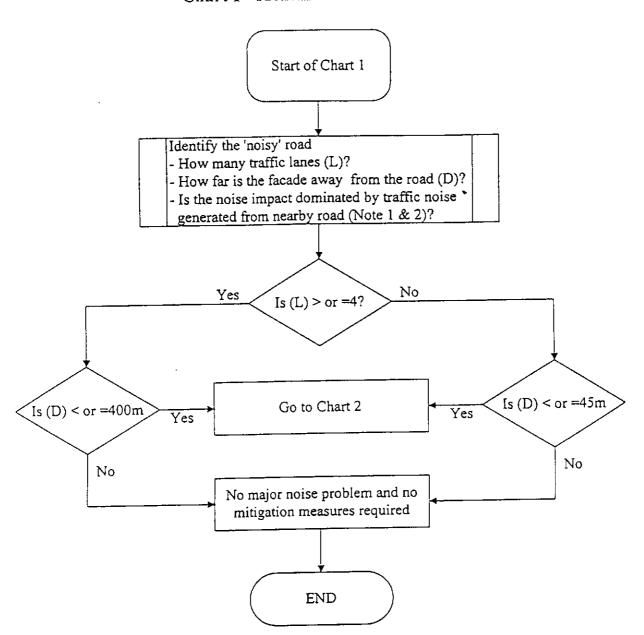
APPENDIX IV

Working tools developed for reviewing of flyovers

Chart 1 - Identification of Problems



Note 1: If the noise impact is dominated by traffic noise generated from other roads i.e. roads other than the one under investigation, no practical scheme should be provided for the road under investigation.

Note 2: Noise impacts from other roads are considered predominant if the following conditions apply:

- (a) Case 1: Other road has more or equal number of traffic lanes

 The road is 50% closer to the receiver than the road under investigation, while the angle of view of the road is no less than 50%.
- (b) Case 2: Other road has 50% lesser number of traffic lanes
 The road is more than 80% closer to the receiver while the angle of view of the road is smilar.

M15698/chart1.vsd

TITLE

Maunsell

Chart 1 - Identification of Problems

MAUNSELL ENVIRONMENTAL MANAGEMENT CONSULTANTS LTD			
moutet no	M15698	DATE	Dec. 1998
3696960 346060	Wendy Tao	ORANING NO	Figure 2.2

Simplied Assessment Procedures

Start

Ţ

Chart 1 - Idnetification of Problems



Chart 2 - Selection of Barrier Forms



Chart 3 - Emergency Access Considerations



Chart 4 - Road Safety Considerations



Chart 5 - Socio-economic Considerations



Chart 6 - Land Availability



Chart 7 - Acoustic Effectiveness



Preliminary Engineering Feasibility Study

M15698\simply.vsd

πŒ

Simplified Assessment Procedures

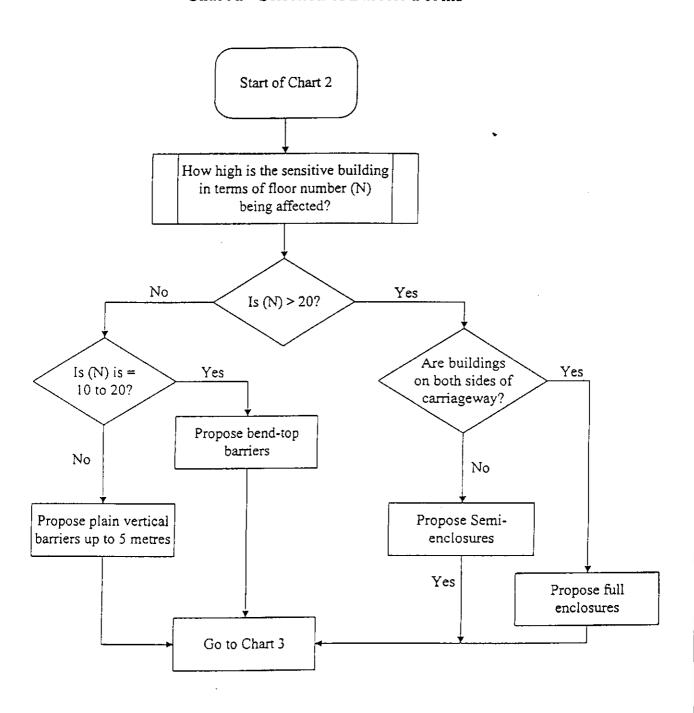
MAUNSELL ENVIRONMENTAL
MANAGEMENT CONSULTANTS LTD

М15698 Омте Dec. 1998

DESCHED Wendy Тао Оминия но Figure 2.1

Maunsell

Chart 2 - Selection of Barrier Forms



M15698/chart2.vsd

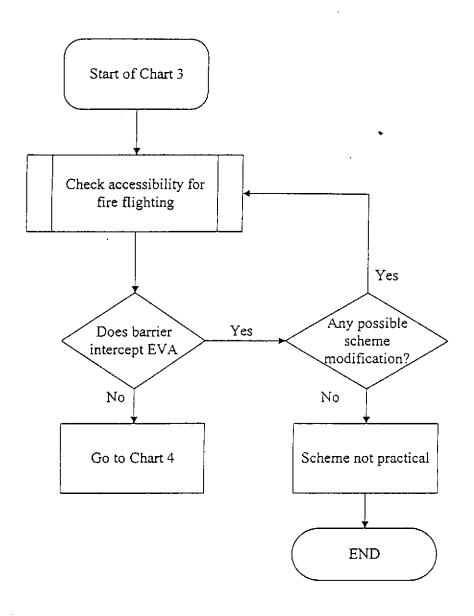
Maunsell

MTLE.

Chart 2 - Selection of Barrier Forms

MAUNSELL ENVIRONMENTAL MANAGEMENT CONSULTANTS LTD			
POLECT NO	M15698	DATE	Dec. 1998
SESONED/ SHOVED	Wendy Tao	ORANINO NO	Figure 2.3

Chart 3 - Emergency Access Considerations



M15698/chart3.vsd

Maunsell

TITLE

Chart 3 - Emergency Access Considerations

MAUNSELL ENVIRONMENTAL MANAGEMENT CONSULTANTS LTD					
NO	M15698	CATE	Dec. 1998		

M15698 OATE Dec. 1998

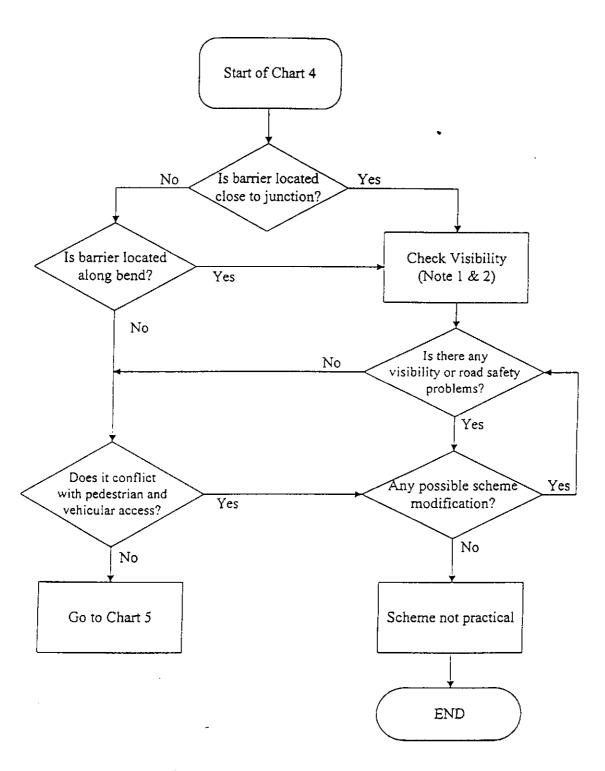
Dec. 1998

Dec. 1998

Dec. 1998

Dec. 1998

Chart 4 - Road Safety Considerations



Note 1: See Figures 9 to 13 for sightline requirements.

Note 2: It is considered impracticable to install barriers within 15m of the "Give Way" line of a roundabout.

M15698/chart4.vsd

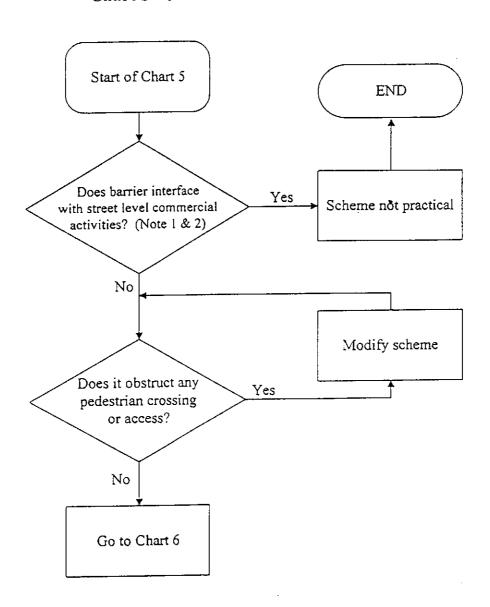
Maunsell

ΠLE

Chart 4 - Road Safety Considerations

MAUNSELL ENVIRONMENTAL MANAGEMENT CONSULTANTS LTD			
PROJECT NO	M15698	DATE	Dec. 1998
DESCRED.	Wendy Tao	DAVING HO	Figure 2.5

Chart 5 - Socio-economic Considerations



Note 1:Street level commercial activites include all shops, restaurant, cinemas, etc.

Note 2:Street level commercial activities are considered to be seriously interfered when the clearance between the affected shops, restaurant, cinemas, etc and the identified barrier is less than 10 metres.

M15698/chart5.vsd

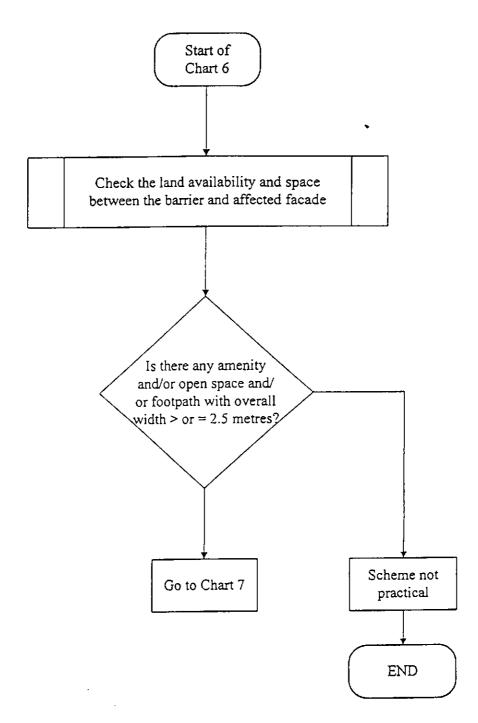
Maunsell

TITLE

Chart 5 - Socio-economic Considerations

MAUNSELL ENVIRONMENTAL MANAGEMENT CONSULTANTS LTD			
PROJECT NO	M15698	CATE	Dec. 1998
DESIGNED/ CHECKED	Wendy Tao	ORAMING NO	Figure 2.6

Chart 6 - Land Availability



M15698\land.vsd

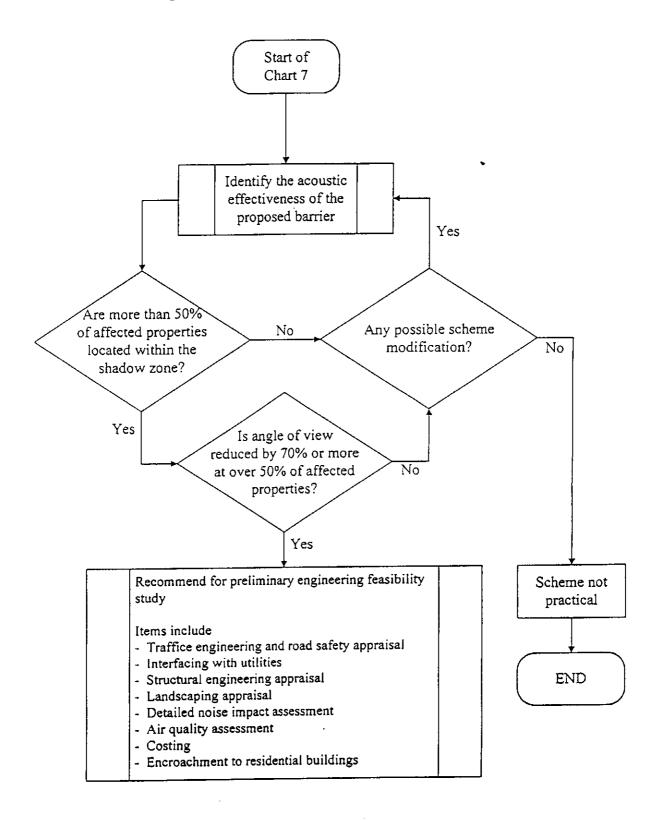
Maunsell

MILE

Chart 6 - Land Availability

		SELL ENVIRONMENTAL MENT CONSULTANTS LTD			
HOJECT NO	M15698	DATE	Dec. 1998		
06 SKG=60	Wendy Tao	24.mg 10	Figure 2.7		

Chart 7 - Acoustic Effectiveness



M15698\acoustic.vsd

Maunsell

πŒ

Chart 7 - Acoustic Effectiveness

MAUNSELL ENVIRONMENTAL MANAGEMENT CONSULTANTS LTD				
POJECT NO	M15698	DATE	Dec. 1998	
X5G460 >-EC420	Wendy Tao	OFFERWARD	Figure 2.8	