Extension of Table 6.5 (part) of E12/1 as requested by the Panel on Day 233 (page 14E)

					BASIC CO	OSTS* (£ million)		
Proposal	As given in Table 6.5 of E12/1		e 6.5 of	As given in B.540			Including additional items requested by Panel		
	Property	Works	Total	Property	Works	Total	Property	Works	Total
Ringway 1	144	336	480	139 (180.7)	319 (398.7)	458 (579.4)	136 (176.8)	352 (440)	488 (616.8)
Ringway 2	85	334	419	86.5 (112.4)	338.5 (423.1)	425 (535.5)	91.5 (118.9)	361 (451.3)	452.5 (570.2)
Ringway 3	26	180	206	36 (46.8)	189.5 (236.9)	225.5 (283.7)	36 (46.8)	189.5 (236.9)	225.5 (283.7)
Radials	55	236	291	59.5 (77.4)	259 (323.8)	318.5 (401.2)	81.5 (106)	344.5 (430.6)	425 (536.6)
Total	310	1086	1396	321 (417.3)	1106 (1382.5)	1427 (1799.8)	345 (448.5)	1247 (1558.8)	1592 (2007.3)

^{*} At 1970 prices; March 1972 prices in brackets (derived by means of factors given in B.540).

B 540 AUGMENTED

As Requested by The Panel on Day 232 Table 1 – Cost of Primary Network (Part One – GLC Schemes)

	No. of lanes on	Cost (£ mil	lion) within Hig	ghways Act limits
Route Description (1)	which estimate is based* (2)	Property (3)	Works (4)	Total basic cost (5)
RINGWAY ONE				
West Cross/North Cross Westway to Finchley Road	Dual 4	21.0	58.0	79.0
North Cross Finchley Road to Dalston	Dual 4	25.0	68.0	93.0
North Cross Dalston to Hackney Wick	Dual 4	17.0	24.0	41.0
South Cross Kidbrooke to St Johns	Dual 4	7.0	28.0	35.0
South Cross St Johns to Clapham	Dual 4	42.0	94.0	136.0
West Cross Clapham to Chelsea Basin	Dual 4	4.0	17.0	21.0
West Cross Chelsea Basin to Holland Park Avenue	Dual 4	23.0	30.0	53.0
Total Ringway One		139.0	319.0	458.0
RINGWAY TWO (South)				
A13 to Thamesmead	Dual 4	4.0	34.0	38.0
Thamesmead to Falconwood	Dual 4	5.0	22.0	27.0
Falconwood to Verdant Lane	Dual 3 and dual 4	4.0	39.0	43.0
Verdant Lane to Norbury (A23)	Dual 4	17.0	63.0	80.0
A23 to M23 } M23 Northern Terminal	Dual 4	5.0	10.0	15.0
M23 to A24 }	Dual 4	5.0	6.0	11.0
Colliers Wood High St (A24) to Wandsworth Interchange	Dual 4	11.0	6.0	57.0
Wandsworth Interchange to Beauchamp Terrace	Dual 4	7.0	12.0	19.0
Beauchamp Terrace to Chiswick Area (notional cost)	Dual 3 and dual 4	5.0	10.0	15.0
Total Ringway Two (South)		63.0	242.0	305.0
RADIALS				
Link Road Clapham to Wandsworth	Dual 4	5.0	17.0	22.0
A40 Link, Willesden to A40	Dual 2	4.0	19.0	23.0
M1 Extension, M1 to North Cross Route	Dual 3	7.0	17.0	24.0
Sidcup Road Link, Kidbrooke to Mottingham	Dual 3	1.0	10.0	11.0
A20(M), Mottingham to Greenwich/Bexley boundary	Dual 3	2.0	18.0	20.0
M23 Extension, Ringway 2 to Ringway 1	Dual 2	10.0	30.0	40.0
Total Radials (GLC)		29.0	111.0	140.0
Dover Radial Route and Link to BTSA	Dual 3	4.0	19.0	23.0

Parkway E, Ringway 1 to New Addington	Dual 3 and dual 4	12.0	55.0	67.0
TOTAL – GLC PROPOSALS				
(Excluding Dover Radial Route, Parkway E and any				
allowance for the Chiswick Interchange)		231.0	672.0	903.0
TOTAL – GLC PROPOSALS				
(Including Dover Radial Route and Parkway E, but excluding				
additional items requested by panel)		247.0	746.0	993.0
Additional items requested by Panel on Day 232				
RINGWAY ONE				
Additional cost of deep bored tunnel at Blackheath		Saving of 3.0	25.0	22.0
Additional cost of cut and cover at Camberwell Grove		-	1.0	1.0
Additional cost of cut and cover at Ruskin Park		-	2.5	2.5
Additional cost of cut and cover at Wandsworth Road		-	2.0	2.0
Additional cost of cut and cover at Northampton Park		-	2.5	2.5
RINGWAY TWO (SOUTH)				
Additional cost of cut and cover at Chiswick		-	2.5	2.5
Chiswick Interchange		5.0	20.0	25.0
RADIALS				
A3/A4/A13/A40		1.0	1.5	2.5
A316 Hope and Anchor – Hogarth Corner		5.0	10.0	15.0
TOTAL – GLC PROPOSALS				
(Including all additional items requested by Panel)		255.0	813.0	1068.0

Table 1 – Cost of Primary Network (Part Two – DoE Schemes and Total)

	No. of lanes on	Cost (£ million) within Highways Act limits			
Route Description (1)	which estimate is based* (2)	Property (3)	Works (4)	Total basic cost (5)	
RINGWAY TWO (NORTH)					
M4 to M1	Dual 3	7.5	23.5	31.0	
M1 to M11	Dual 3	11.0	43.5	54.5	
M11 to A13	Dual 4	5.0	29.5	34.5	
Total Ringway Two (North)		23.5	96.5	120.0	
RINGWAY THREE					
North (M4 to A13)	Dual 3	11.5	90.5	102.0	
South (A2 to M4)	Dual 3	24.5	99.0	123.5	

Total Ringway Three	36.0	189.5	225.5	
RADIALS				
A1 to M1	Dual 3	Nil	1.5	1.5
M1 Extension to A406	Dual 3	6.5	11.0	17.5
M11 GLC Boundary to A12	Dual 3	2.0	9.5	11.5
M11 A406 to Ringway 1	Dual 3	9.0	41.0	50.0
M12	Dual 3 and dual 4	1.0	14.0	15.0
A127	Dual 3	Nil	0.5	0.5
A13	Dual 2 and dual 3	1.0	4.0	5.0
A10				No major proposals
A20	Dual 3	1.0	10.5	11.5
A2				No major proposals
M23 Hooley to Mmitcham (excluding N Terminal)	Dual 4	4.5	17.0	21.5
A3	Dual 3	2.0	7.0	9.0
M4/A4	Dual 2 and dual 3	0.5	4.5	5.0
A40	Dual 3	3.0	27.5	30.5
Total Radials (DoE)		30.5	148.0	178.5
TOTAL - DoE PROPOSALS				
(Excluding M23 Northern Terminal included in Ringway 2				
South costs above)		90.0	434.0	524.0
TOTAL – GLC PROPOSALS (brought forward)		255.0	813.0	1068.0
TOTAL – GLC and DoE				
(Including Dover Radial, Parkway E and other items				
requested by panel)		345.0	1247.0	1592.0
Allowance for inflation (July 1970 – March 1972)		(30%)	(25%)	
,		103.5	311.0	415.3
TOTAL AT MARCH 1972 PRICES		448.5	1558.8	2007.3

 $Table\ 2-Rehousing\ and\ Other\ Costs\ (Part\ One-GLC\ Schemes)$

Danta Danishtian		Highways		onal costs arisin		Total
Route Description	Act limits			environmental	standards	
	Rehousing	Overheads	Excluding rehousing	Rehousing	Overheads	
RINGWAY ONE						
West Cross/North Cross Westway to Finchley Road	10.9		0.8	0.3		
North Cross Finchley Road to Dalston	14.8	5% of basic	1.6	0.7		
North Cross Dalston to Hackney Wick	6.4	cost	1.5	0.6	5% of	
South Cross Kidbrooke to St Johns	1.7	(Column 5)	0.7	0.3	Column 4	
South Cross St Johns to Clapham	12.7	of table 1	3.8	1.3		
West Cross Clapham to Chelsea Basin	1.6		0.4	0.1		
West Cross Chelsea Basin to Holland Park Avenue	7.0		3.2	1.6		
Total Ringway One	55.1	22.9	12.0	4.9	0.6	
RINGWAY TWO (SOUTH)						
A13 to Thamesmead	Nil		Nil	Nil		
Thamesmead to Falconwood	0.4		0.8	0.2		
Falconwood to Verdant Lane	0.5	5% of basic	6.7	1.8		
Verdant Lane to Norbury (A23)	4.0	cost			5% of	
A23 to M23 } M23 Northern Terminal	2.1	(Column 5)	0.2	Nil	Column 4	175.2
M23 to A24 }	2.1	of table 1	0.3	0.1		
A24 to Wandsworth Interchange	3.2		1.1	0.5		
Wandsworth Interchange to Beauchamp Terrace	1.9		0.2	0.1		
Beauchamp Terrace to Chiswick Area (notional cost)	1.9		0.7	0.5		
Total Ringway Two (South)	16.1	15.3	10.0	3.2	0.5	
RADIALS						
Link Road, Clapham to Wandsworth	4.2	5% of basic	0.8	0.5		
A40 Link, Willesden to A40	1.6	cost	0.6	0.2	5% of	
M1 extension, M1 to North Cross Route	3.6	(Column 5)	0.2	Nil	Column 4	
Sidcup Road link Kidbrooke to Mottingham	0.1	of table 1	0.2	0.1	Column 4	
A20(M) Mottingham to Greenwich/Bexley Boundary	0.3	or table 1	0.4	0.1		
M23 Extension, Ringway 2 to Ringway 4	2.7		0.7	0.2		
Total Radials (GLC)	12.5	7.0	2.9	1.1	0.1	
Dover Radial Route and link to BTSA	0.5	5% of basic	0.1	Nil	5% of	

Parkway E, Ringway 1 to New Addington	2.8	cost	2.3	0.7	Column 4	
Total GLC Proposals (including Dover Radial Route and Parkway E, but excluding additional items requested by Panel)	87.0	49.7	27.3	9.9	1.3	
ADDITIONAL ITEMS REQUESTED BY PANEL	07.0	.,,,	27.5	7.7	1.0	
Ringway One						
Additional cost deep bored tunnel at Blackheath	-0.6		-0.2			
Additional cost cut and cover Camberwell Grove						
Additional cost cut and cover Ruskin Park						
Additional cost cut and cover Wandsworth Road		50/ 575	• • • •	0.70/ 6	5% of	
Additional cost cut and cover Northampton Park		5% of 75	2.8% of	0.7% of	Column 4	
Ringway Two (South)		= 3.8	42.5 = 0.6	42.5 = 0.3	= 0.04	
Additional Cost Chiswick						
Additional Cost Chiswick Interchange	1.3					
Radials						
A3, A4, A13, A40	0.1					
A316	0.7					
Total GLC Proposals at July 1970 prices						
(including Dover Radial Route, Parkway E and additional items	00.5	50.5	20.1	10.0	1 24	101.64
requested by panel)	88.5	53.5	28.1	10.2	1.34	181.64

Table 2 – Rehousing and Other Costs (Part Two DoE Schemes and Total)

		Cost (£ million)					
Route Description	Within Highways Act limits		Additional costs arising from enhanced environmental standards			Total	
Route Description	Rehousing	Overheads	Excluding rehousing	Rehousing	Overheads		
RINGWAY TWO (NORTH)		5% of basic					
M4 to M1	Not	cost	-	-	5% of		
M1 to M11	available	(Column 5)	-	-	Column 4		
M11 to A13		of table 1	0.5	Nil			
Total Ringway Two (North)		6.0	1	1		47.3	
RINGWAY THREE North (M4 to A13) South (A2 to M4)	Not available	5% of basic cost	-		5% of Column 4		
Total Ringway Three		11.3	-	-	-		

RADIALS						
A1 to M1			-	Nil		
M1 extension to A406			0.4	Nil		
M11 GLC Boundary to A12			0.3			
M11 A406 to Ringway 1			-	Nil		
M12		FO/ of bosis	0.4			
A127	NT-4	5% of basic	-		50/ - £	
A13	Not	cost	-		5% of	
A10	available	(Column 5)	-		Column 4	
A20		of table 1	-			
A2			-			
M23 Hooley to Mitcham (excl. Northern Terminal)			1.2	Nil		
A3			-			
M4/A4			-			
A40			-			
Total Radials (DoE)		8.9				
Total DoE Proposals (excluding M23 Northern Terminal						
included in Ringway 2 (South) costs above)	2.7	26.2	14.7*	3.0**	0.7	
Total GLC Proposals (brought forward at 1970 prices)	88.5	53.5	28.1	10.2	1.34	181.64
Total GLC and DoE (at 1970 prices)	91.2	79.7	42.8	13.2	2.04	228.94
Allowance for inflation (July 1970 – March 1972)	10.5	20.7	12.0	1.5	0.7	45.4
Total at 1972 prices	101.7	100.4	54.8	14.7	2.74	274.34
Total brought forward from Table 1 (at 1972 prices)						2007.30
TOTAL						2281.64

* This is calculated as follows:

Total of column 4 2.8 M 2.8% capital cost of balance (424 M) 11.9 M TOTAL 14.7 M

^{** 0.7*} of £424 M

Table 3 – Lengths of Cut and Cover Construction on Primary Network (GLC Sections Only)

				Difference	
				between cost of	
				C&C and cost of	
			Length	retained cut	
Route	Section	Location	(feet)	(£M)	Remarks
Ringway 1	Kidbrooke – St Johns	Blackheath area	1850	5.6	Several lengths of cut and cover construction are included in the safeguarded scheme. These all fall within the limits of the section that would be replaced by the proposed deep-bored tunnel, the cost of which is not included in Table 1.
Ringway 1	St Johns - Clapham	Wandsworth Road	600	2.0	Para 5.1 (page 8) or B.490 explains that the vertical alignment of Ringway 1 in the vicinity of the primary/secondary interchange with the Queenstown Road area is still under consideration. When approval was given to the adjoining Westbury Street housing site it was agreed that any route between the site and the railway would be in cut and cover.
Ringway 1	Finchley Road - Dalston	Belsize Park	3660	10.0	About 65% would be fully covered; the remainder would be partially covered by louvers.
Ringway 1	Finchley Road - Dalston	Adj. Highbury Corner	700	1.1	
Ringway 2	Thamesmead - Falconwood	Rockliffe Gardens	640	1.7	This would also be desirable for engineering reasons.
Ringway 2	Falconwood – Verdant Lane	Eltham Warren golf course	800	1.7	
Ringway 2	Falconwood – Verdant Lane	Footscray playing field	1020	2.2	
Ringway 2	Falconwood – Verdant Lane	Royal Blackheath golf course	1840	3.8	
Ringway 2	Verdant Lane – Norbury	Whitefoot Lane playing fields	1400	3.7	
Ringway 2	Verdant Lane –	Sedgehill Sch.	1050	2.8	This would also be desirable for engineering reasons.

	Norbury	playing fields			
Ringway 2	Wandsworth – Chiswick	See remarks	1200	2.5	The possibility of cut and cover has been discussed at the inquiry in relation to the assumed line following the railway through the Grove Park area in Chiswick, but no line has been formally agreed and therefore no details are available.
Additional l	Details requested by Pa	nel			
Ringway 1	St Johns – Clapham	Camberwell Grove	395	1.0	
Ringway 1	St Johns – Clapham	Ruskin Park	980	2.5	
Ringway 1	Finchley Road – Dalston	Northampton Park	950	2.5	
TOTAL	•	•	•	43.1	

Note: items "Ringway 1 St Johns to Clapham" and "Ringway 2 Wandsworth to Chiswick" are very broad estimates provided at the request of the panel.