



Norwich - Northern Distributor Road

Major Schemes Business Case
Sensitivity Test for DfT

Dependent Development

Volume 2 – Appendices
(Appendices A, B, C, D, G, H & I)

December 2009
Norfolk County Council

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Norfolk County Council

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Content

Chapter	Title	Page
Appendix A.	List of Joint Core Strategy Housing and Business Developments and Their Location Maps _____	1
Appendix B.	Maps Showing Location of Dependent Housing & Business Development Rev A Model Zones _____	13
Appendix C.	Vehicle Queues, Link Cruise Time and Travel Time _____	17
Appendix D.	Trip Totals by User Class (PCUs) _____	20
Appendix E.	Junction Delays _____	25
Appendix F.	Vehicle over Capacity Ratio _____	26
Appendix G.	Traffic Flows (PCUs) _____	27
Appendix H.	Trip Totals (PCUs) _____	33
Appendix I.	PCU Kilometres _____	63

Tables

Table A.1:	2006-2016 Housing Development Forecasts in Norwich, Broadland and South Norfolk _____	1
Table A.2:	2016-2021 Housing Development Forecasts in Norwich, Broadland and South Norfolk _____	4
Table C.1:	Transient queues - Simulation Area _____	17
Table C.2:	Transient queues - Buffer area _____	17
Table C.3:	Transient queues - Total _____	18
Table C.4:	Over-capacity queues - Simulation area _____	18
Table C.5:	Over-capacity queues - Buffer area _____	19
Table C.6:	Over-capacity queues - Total _____	19
Table D.1:	2006 Base Year Trip Totals - AM Peak _____	20
Table D.2:	2006 Base Year Trip Totals - IP _____	20
Table D.3:	2006 Base Year Trip Totals - PM Peak _____	20
Table D.4:	2012 DM Trip Totals - AM Peak _____	21
Table D.5:	2012 DM Trip Totals - IP _____	21
Table D.6:	2012 DM Trip Totals - PM Peak _____	21
Table D.7:	2027 DM Trip Totals - AM Peak _____	22
Table D.8:	2027 DM Trip Totals - IP _____	22
Table D.9:	2027 DM Trip Totals - PM Peak _____	22
Table D.10:	2012 DS Trip Totals - AM Peak _____	23
Table D.11:	2012 DS Trip Totals - IP _____	23
Table D.12:	2012 DS Trip Totals - PM Peak _____	23
Table D.13:	2027 DS Trip Totals - AM Peak _____	24
Table D.14:	2027 DS Trip Totals - IP _____	24
Table D.15:	2027 DS Trip Totals - PM Peak _____	24
Table G.1:	2006, 2012 and 2027 Key Road Flows - TEMPRO 5.4 _____	28
Table G.2:	2006, 2012 and 2027 Key Road Flows - Part JCS (Scenario 1) _____	29
Table G.3:	2006, 2012 and 2027 Key Road Flows - Full JCS (Scenario 2) _____	30
Table G.4:	2012 and 2027 Key Road Flows - Change in Flow (Part JCS - TEMPRO 5.4) _____	31
Table G.5:	2012 and 2027 Key Road Flows - Change in Flow (Full JCS – Part JCS) _____	32
Table H.1:	2006 Base Year Trip Totals, AM Peak _____	34
Table H.2:	2006 Base Year Trip Totals, IP _____	34
Table H.3:	2006 Base Year Trip Totals, PM Peak _____	35
Table H.4:	2012 TEMPRO 5.4 Reference Case Trip Totals, AM Peak _____	35
Table H.5:	2012 TEMPRO 5.4 Reference Case Trip Totals, IP _____	36
Table H.6:	2012 TEMPRO 5.4 Reference Case Trip Totals, PM Peak _____	36

Table H.7:	2012 TEMPRO 5.4 Trip Totals, AM Peak	37
Table H.8:	2012 TEMPRO 5.4 Trip Totals, IP	37
Table H.9:	2012 TEMPRO 5.4 Trip Totals, PM Peak	38
Table H.10:	2012 Difference in Trip Totals between TEMPRO 5.4 and Reference Case, AM Peak	38
Table H.11:	2012 Difference in Trip Totals between TEMPRO 5.4 and Reference Case, IP	39
Table H.12:	2012 Difference in Trip Totals between TEMPRO 5.4 and Reference Case, PM Peak	39
Table H.13:	2027 TEMPRO 5.4 Reference Case Trip Totals, AM Peak	40
Table H.14:	2027 TEMPRO 5.4 Reference Case Trip Totals, IP	40
Table H.15:	2027 TEMPRO 5.4 Reference Case Trip Totals, PM Peak	41
Table H.16:	2027 TEMPRO 5.4 Trip Totals, AM Peak	41
Table H.17:	2027 TEMPRO 5.4 Trip Totals, IP	42
Table H.18:	2027 TEMPRO 5.4 Trip Totals, PM Peak	42
Table H.19:	2027 Difference in Trip Totals Between TEMPRO 5.4 and Reference Case, AM Peak	43
Table H.20:	2027 Difference in Trip Totals Between TEMPRO 5.4 and Reference Case, IP	43
Table H.21:	2027 Difference in Trip Totals Between TEMPRO 5.4 and Reference Case, PM Peak	44
Table H.22:	2012 Scenario 1 Reference Case Trip Totals, AM Peak	44
Table H.23:	2012 Scenario 1 Reference Case Trip Totals, IP	45
Table H.24:	2012 Scenario 1 Reference Case Trip Totals, PM Peak	45
Table H.25:	2012 Scenario 1 Trip Totals, AM Peak	46
Table H.26:	2012 Scenario 1 Trip Totals, IP	46
Table H.27:	2012 Scenario 1 Trip Totals, PM Peak	47
Table H.28:	2012 Difference in Trip Totals Between Reference Case and Scenario 1, AM Peak	47
Table H.29:	2012 Difference in Trip Totals Between Reference Case and Scenario 1, IP	48
Table H.30:	2012 Difference in Trip Totals Between Reference Case and Scenario 1, PM Peak	48
Table H.31:	2027 Reference Case Scenario 1 Trip Totals, AM Peak	49
Table H.32:	2027 Reference Case Scenario 1 Trip Totals, IP	49
Table H.33:	2027 Reference Case Scenario 1 Trip Totals, PM Peak	50
Table H.34:	2027 Scenario 1 Trip Totals, AM Peak	50
Table H.35:	2027 Scenario 1 Trip Totals, IP	51
Table H.36:	2027 Scenario 1 Trip Totals, PM Peak	51
Table H.37:	2027 Difference in Trip Totals Between Reference Case and Scenario 1, AM Peak	52
Table H.38:	2027 Difference in Trip Totals Between Reference Case and Scenario 1, IP	52
Table H.39:	2027 Difference in Trip Totals Between Reference Case and Scenario 1, PM Peak	53
Table H.40:	2012 Reference Case Scenario 2 Trip Totals, AM Peak	53
Table H.41:	2012 Reference Case Scenario 2 Trip Totals, IP	54
Table H.42:	2012 Reference Case Scenario 2 Trip Totals, PM Peak	54
Table H.43:	2012 Scenario 2 Trip Totals, AM Peak	55
Table H.44:	2012 Scenario 2 Trip Totals, IP	55
Table H.45:	2012 Scenario 2 Trip Totals, PM Peak	56
Table H.46:	2012 Difference in Trip Totals Between Reference Case and Scenario 2, AM Peak	56
Table H.47:	2012 Difference in Trip Totals Between Reference Case and Scenario 2, IP	57
Table H.48:	2012 Difference in Trip Totals Between Reference Case and Scenario 2, PM Peak	57
Table H.49:	2027 Reference Case Scenario 2 Trip Totals, AM Peak	58
Table H.50:	2027 Reference Case Scenario 2 Trip Totals, IP	58
Table H.51:	2027 Reference Case Scenario 2 Trip Totals, PM Peak	59
Table H.52:	2027 Scenario 2 Trip Totals, AM Peak	59
Table H.53:	2027 Scenario 2 Trip Totals, IP	60
Table H.54:	2027 Scenario 2 Trip Totals, PM Peak	60
Table H.55:	2027 Difference in Trip Totals Between Reference Case and Scenario 2, AM Peak	61

Table H.56: 2027 Difference in Trip Totals Between Reference Case and Scenario 2, IP	61
Table H.57: 2027 Difference in Trip Totals Between Reference Case and Scenario 2, PM Peak	62
Table I.1: 2006 Base Year PCU Kilometres – AM Peak	63
Table I.2: 2006 Base Year PCU Kilometres - IP	64
Table I.3: 2006 Base Year PCU Kilometres – PM Peak	65
Table I.4: 2012 TEMPRO 5.4 Do Minimum PCU Kilometres – AM Peak	66
Table I.5: 2012 TEMPRO 5.4 Do Minimum PCU Kilometres - IP	67
Table I.6: 2012 TEMPRO 5.4 Do Minimum PCU Kilometres – PM Peak	68
Table I.7: 2027 TEMPRO 5.4 Do Minimum PCU Kilometres – AM Peak	69
Table I.8: 2027 TEMPRO 5.4 Do Minimum PCU Kilometres - IP	70
Table I.9: 2027 TEMPRO 5.4 Do Minimum PCU Kilometres - PM Peak	71
Table I.10: 2012 Scenario 1 Do Minimum PCU Kilometres – AM Peak	72
Table I.11: 2012 Scenario 1 Do Minimum PCU Kilometres - IP	73
Table I.12: 2012 Scenario 1 Do Minimum PCU Kilometres – PM Peak	74
Table I.13: 2027 Scenario 1 Do Minimum PCU Kilometres – AM Peak	75
Table I.14: 2027 Scenario 1 Do Minimum PCU Kilometres - IP	76
Table I.15: 2027 Scenario 1 Do Minimum PCU Kilometres - PM Peak	77
Table I.16: 2012 Scenario 2 Do Minimum PCU Kilometres - AM Peak	78
Table I.17: 2012 Scenario 2 Do Minimum PCU Kilometres - IP	79
Table I.18: 2012 Scenario 2 Do Minimum PCU Kilometres - PM Peak	80
Table I.19: 2027 Scenario 2 Do Minimum PCU Kilometres - AM Peak	81
Table I.20: 2027 Scenario 2 Do Minimum PCU Kilometres - IP	82
Table I.21: 2027 Scenario 2 Do Minimum PCU Kilometres - PM Peak	83

Figures

Figure A.1: 2006 – 2016, Indicative location of housing developments	7
Figure A.2: 2016-2021, Indicative location of housing developments	8
Figure A.3: 2021-2026, Indicative location of housing developments	9
Figure A.4: 2006 – 2016, Indicative location of employment developments	10
Figure A.5: 2012-2021, Indicative location of employment developments	11
Figure A.6: 2021-2026, Indicative location of employment developments	12
Figure B.1: 2006-2012, Indicative location of dependent housing model zones	13
Figure B.2: 20012-2027, Indicative location of dependent housing model zones,	14
Figure B.3: 2006-2012, Indicative location of dependent business model zones	15
Figure B.4: 2012-2027, Indicative location of dependent business model zones	16
Figure G.1: Traffic Flow Locations	27
Figure H.1: NATS Model Sectors	33

Appendix A. List of Joint Core Strategy Housing and Business Developments and Their Location Maps

Table A.1: 2006-2016 Housing Development Forecasts in Norwich, Broadland and South Norfolk

Local Plan Development	District	Units	Model Zone
Hellesdon	Broadland	38	119
Hellesdon, Golf Course	Broadland	102	121
Hellesdon Hospital	Broadland	34	122
Hellesdon, A140 corridor	Broadland	34	123
Drayton	Broadland	54	127
Spixworth	Broadland	17	154
Rackheath Eco-Community	Broadland	1,035	157
Blofield	Broadland	33	163
Thorpe St Andrew	Broadland	71	166
Sprowston	Broadland	317	11402
Old Catton	Broadland	75	11702
Taverham	Broadland	41	15101
Blue Boar Lane	Broadland	882	15602
Great and Little Plumstead	Broadland	283	15801
	Broadland		
SPROWSTON FRINGE	Broadland		
South of Plumstead Road	Broadland	31	84
Between Wroxham and North Walsham Road	Broadland	91	155
Between Salhouse and Wroxham Road	Broadland	114	15602
Between Plumstead and Salhouse Road	Broadland	114	15801
Sprowston Fringe Total	Broadland	350	
BROADLAND TOTAL		3.366	
St. Andrews Street, Rumsey Wells Court	Norwich	12	8
Castle Meadow, 7-7a (Castle House)	Norwich	22	10
Tombland, Samson and Hercules House	Norwich	17	11
Cathedral Street, 16	Norwich	14	13
Greyfriars Road / Rose Lane	Norwich	130	14
Mountergate, Baltic Wharf	Norwich	11	14
Mountergate / Rose Lane	Norwich	80	14
Surrey Street, 29-35	Norwich	12	19
Bethel Street, 59 (Labour Club)	Norwich	14	25
Pottergate, 34 (Pottergate / Fishers Lane)	Norwich	50	27
Pottergate, Thorndick and Dawson	Norwich	18	27
St Giles Street, rear 29	Norwich	17	27
Duke Street, Dukes Palace Wharf*	Norwich	35	33
Duke Street, Dukes Wharf [70]	Norwich	16	33
Duke Street, St Mary's Works	Norwich	50	33
Duke Street, Start Rite Site (adj hotel) [21]	Norwich	40	33

Local Plan Development	District	Units	Model Zone
Mary Chapman Court	Norwich	40	33
Muspole Street	Norwich	40	33
Fishergate, 17-27	Norwich	13	36
Fishergate, Bulsare Warehouse	Norwich	10	36
Fishergate, Old Millers Wharf	Norwich	31	36
Magdalen Street, Zipfels Court	Norwich	10	36
Quayside / Bedding Lane / Palace Street*	Norwich	25	36
Quayside / Pigg Lane*	Norwich	15	36
St Saviours Lane, Hi Tech House	Norwich	40	36
Whitefriars, Smurfitt Kappa	Norwich	90	36
King Street, 131-133 (King St / Hobrough Lane)	Norwich	35	41
King Street, 148-162	Norwich	22	41
King Street, Paper Mill Yard	Norwich	180	41
King Street, Reads Mill and Cannon Wharf	Norwich	160	41
King Street, St Anne's Wharf [437]	Norwich	200	41
Music House Lane, 1-4	Norwich	40	41
Ber Street, 10-34	Norwich	30	43
Ber Street, 84-104 [25]	Norwich	25	43
Ber Street, 93-101	Norwich	18	43
Foulgers Opening, Foulgers House	Norwich	58	43
Oak Street, L C Jay and Son	Norwich	12	47
Oak Street, Spring Grove Laundry	Norwich	21	47
Oak Street, The Talk / 114	Norwich	40	47
Oak Street / New Mills Yard*	Norwich	38	47
St Crispins Road / Pitt Street	Norwich	25	47
St Martins Road, The Watering	Norwich	21	47
Sussex Street, Sussex House	Norwich	15	47
Edward Street, Hunters Squash Club	Norwich	24	49
St Stephens Road, 54-78	Norwich	18	56
St Stephens Road, Needham Place (Courts)	Norwich	24	56
St Stephens Road, N and N Hospital Site*	Norwich	504	57
Chapelfield	Norwich	116	58
Unthank Road, 124-126	Norwich	10	58
Greyhound Opening	Norwich	25	60
Haslips Close / Devonshire Street	Norwich	20	60
Aylsham Road, 2-6	Norwich	13	61
Aylsham Road, St Lukes Court	Norwich	20	61
Waterloo Road / Magpie Road	Norwich	10	61
Silver Road / Mousehold Avenue	Norwich	14	62
Crome Road, Start-Rite (Cobblers Mews)	Norwich	151	63
Pearcefield, 17	Norwich	10	63
Bishop Bridge Road, 27 (Box and Barrel Site)	Norwich	24	64
Bishop Bridge Road, Gas Works	Norwich	15	64
Egyptian Road / Bishop Bridge Road	Norwich	30	64
Rosary Road, Bertram Books	Norwich	113	65
Thorpe Road, 1-5 (Great Eastern Court)*	Norwich	33	65
Thorpe Road, 244 (Cavalier Hotel)	Norwich	10	65
Hall Road, 138	Norwich	10	69
Bowthorpe Road, Norwich Community Hospl.	Norwich	75	75

Local Plan Development	District	Units	Model Zone
Earlham Road, Duff Morgan Garage Site	Norwich	53	75
Armes Street, Little John PH	Norwich	10	76
Nelson Street / Armes Street	Norwich	30	76
Northumberland Street, 120-130	Norwich	30	76
Turner Road, Youth Hostel site	Norwich	15	76
Bowers Avenue	Norwich	10	78
Drayton Road, 81-93	Norwich	10	78
Drayton Road, Lime Kiln Mews	Norwich	33	78
Havers Road / Mile Cross Road, Harmers*	Norwich	39	78
Lefroy Road	Norwich	17	78
Old Grove Court	Norwich	24	79
Philadelphia Lane, Crawshay Arms PH	Norwich	13	79
Woodcock Road, Highwayman PH*	Norwich	14	79
Catton Grove Road, Crown and Magpie PH	Norwich	22	80
Aylsham Road, 70	Norwich	14	81
Anthony Drive / Sprowston Road	Norwich	40	83
Wentworth Green, Civil Service Sports Ground	Norwich	78	93
Elizabeth Fry Road / Bacon Road*	Norwich	73	98
Elizabeth Fry Road / Gould Road	Norwich	81	98
Earlham Road, rear 523-527	Norwich	41	99
Dereham Road, The Loke	Norwich	103	100
Barrack Street / Whitefriars	Norwich	200	106
City Road, Corton House	Norwich	34	107
Munnings Road, Heartsease House	Norwich	17	113
Paine Road, garages rear 34-88	Norwich	27	113
Sale Road, adjacent 274-282	Norwich	10	113
Mousehold Lane, 28 (Start Rite Site)	Norwich	35	115
Ives Road / Bussey Road	Norwich	34	118
Harvey Lane, Morrison Lodge	Norwich	15	166
Rose Lane, 26-36 (Gerald Giles)	Norwich	24	1003
Rose Lane, Tudor Hall	Norwich	10	1003
All Saints Green / Queens Road (Bus Station)	Norwich	104	1903
Theatre Street, Chantry Car Park	Norwich	25	2101
Friars Quay, Colegate	Norwich	20	3601
Anglia Square	Norwich	250	4901
Beckham Place	Norwich	20	4902
Agricultural Hall Plain, Hardwick House	Norwich	24	6701
Wherry Road	Norwich	72	6703
Carrow Road, Riverside Heights*	Norwich	281	6705
Carrow Road / Kerrison Road (HOU9 A42)	Norwich	121	6705
Kerrison Road, Centenary House	Norwich	24	6705
Kerrison Road / Hardy Road (EMP15)	Norwich	52	6705
Kerrison Road / Hardy Road (HOU12 B48)	Norwich	200	6705
Bracondale, Deal Ground	Norwich	40	6803
Bowthorpe Road, Bowthorpe School Site*	Norwich	110	12801
Bowthorpe, Site TS2B Three Score*	Norwich	18	12802
Bowthorpe, Three Score Village	Norwich	750	12802

Local Plan Development	District	Units	Model Zone
Bowthorpe, Tolye Road (Old Barn site)	Norwich	24	12802
Dereham Road, 238a (Earl of Leicester PH)	Norwich	12	12803
Dereham Road, 557	Norwich	21	12803
NORWICH (to be distributed over each NATS Zone)	Norwich	500	
TOTAL NORWICH		6,885	
Costessey	South Norfolk	2,271	125
Framingham Earl	South Norfolk	22	136
Poringland	South Norfolk	759	137
A140 corridor sites (Stoke Holy Cross, Swainsthorpe, Newton Flotman, Tasburgh)	South Norfolk	25	138
Mulbarton	South Norfolk	280	140
Swardeston	South Norfolk	18	141
Hethersett	South Norfolk	283	145
Little Melton	South Norfolk	17	146
Easton	South Norfolk	189	149
Long Stratton	South Norfolk	79	193
Wymondham	South Norfolk	1,003	520
Cringleford	South Norfolk	1,162	13003
Trowse	South Norfolk	25	6802
SOUTH NORFOLK TOTAL		6,133	
Windfall	Other	1,680	
Sites under 10 dwellings	Other	1,038	
Total Other		2,718	
Grand Total Housing Development for 2006-2016		19,102	

Table A.2: 2016-2021 Housing Development Forecasts in Norwich, Broadland and South Norfolk

Local Plan Development	District	Units	Model Zone
Hellesdon, Golf Course	Broadland	255	121
Hellesdon Hospital	Broadland	85	122
Hellesdon, A140 corridor	Broadland	85	123
Drayton	Broadland	43	127
Spixworth	Broadland	13	154
Rackheath Eco-Community	Broadland	1150	157
Brundall	Broadland	20	162
Blofield	Broadland	30	163
Thorpe St Andrew	Broadland	128	166
Old Catton	Broadland	85	11702
Taverham	Broadland	42	15101
Horsford	Broadland	13	15201
Horsham	Broadland	13	15401
Blue Boar Lane	Broadland	351	15602
Great and Little Plumstead	Broadland	32	15801

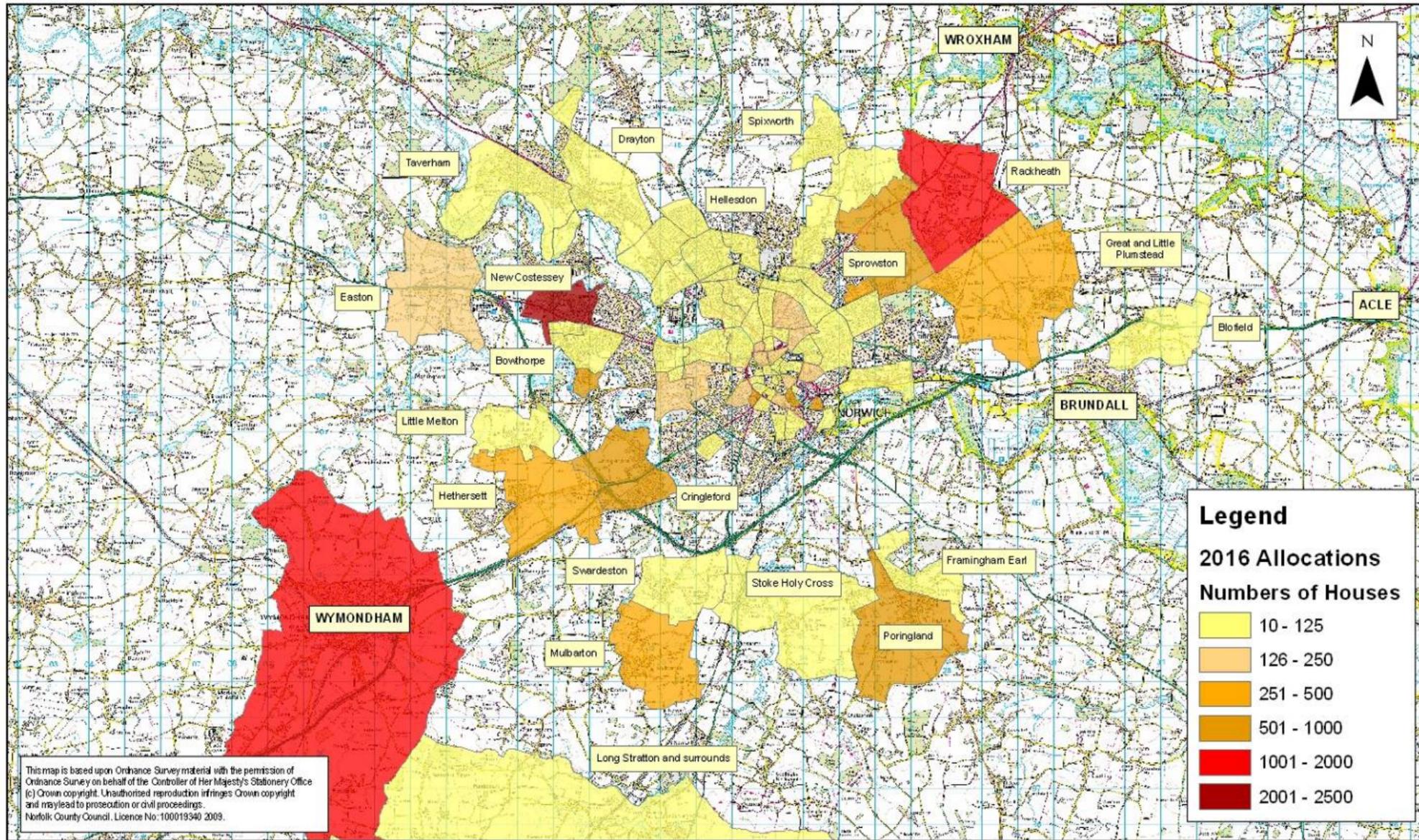
Local Plan Development	District	Units	Model Zone
SPROWSTON FRINGE			
South of Plumstead Road	Broadland	159	84
Between Wroxham and North Walsham Road	Broadland	455	155
Between Salhouse and Wroxham Road	Broadland	568	15602
Between Plumstead and Salhouse Road	Broadland	568	15801
Sprowston Finge Total	Broadland	1,750	
BROADLAND TOTAL		4,095	
Ber Street, 84-104 [25]	Norwich	75	43
Kerrison Road / Hardy Road (HOU12 B48)	Norwich	80	6705
Lower Clarence Road	Norwich	45	8501
Bowthorpe, Three Score Village	Norwich	450	12802
NORWICH (to be distributed over each NATS Zone)	Norwich	1,250	
NORWICH TOTAL		1,900	
Costessey	South Norfolk	313	125
Poringland	South Norfolk	113	137
A140 corridor sites(stoke Holy Cross,Swainstorp,Newton Flotman,Tasburgh)	South Norfolk	63	138
Mulbarton	South Norfolk	83	140
Hethersett	South Norfolk	800	145
Little Melton	South Norfolk	42	146
Easton	South Norfolk	800	149
Long Stratton	South Norfolk	650	193
Wymondham	South Norfolk	925	520
Trowse	South Norfolk	63	6802
Cringleford	South Norfolk	704	13003
SOUTH NORFOLK TOTAL		4,556	
Windfall	Other	1,050	
Sites under 10 dwellings	Other	810	
Total Other		1,860	
Grand Total Housing Development for 2016-2021		12,411	

Table A.3: 2021-2026 Housing Development Forecasts in Norwich, Broadland and South Norfolk

Local Plan Development	District	Units	Model Zone
Hellesdon, Golf Course	Broadland	243	121
Hellesdon Hospital	Broadland	81	122
Hellesdon,Golf Course	Broadland	81	123
Drayton	Broadland	41	127
Spixworth	Broadland	12	154
Rackheath Eco-Community	Broadland	1150	157
Brundall	Broadland	18	162
Blofield	Broadland	28	163
Thorpe St Andrew	Broadland	122	166

Local Plan Development	District	Units	Model Zone
Old Catton	Broadland	81	11702
Taverham	Broadland	40	15101
Horsford	Broadland	12	15201
Horsham	Broadland	12	15401
Great and little Plumstead	Broadland	30	15801
SPROWSTON FRINGE			
South of Plumstead Road	Broadland	159	84
Between Wroxham and North Walsham Road	Broadland	455	155
Between Salhouse and North Wroxham road	Broadland	568	15602
Between Plumstead and North Salhouse Road	Broadland	568	15801
Sprowston Finge Total	Broadland	1,750	
BROADLAND TOTAL		3,701	
Norwich (to be distributed over each NATS Zone)	Norwich	1250	
NORWICH TOTAL		1,250	
Costessey	South Norfolk	313	125
Poringland	South Norfolk	83	137
A140 corridor sites(stoke Holy Cross,Swainstorppe,Newton Flotman,Tasburgh)	South Norfolk	63	138
Mulbarton	South Norfolk	83	140
Hethersett	South Norfolk	800	145
Little Melton	South Norfolk	42	146
Easton	South Norfolk	60	149
Long Stratton	South Norfolk	1150	193
Wymondham	South Norfolk	905	520
Trowse	South Norfolk	63	6802
Cringleford	South Norfolk	654	13003
SOUTH NORFOLK TOTAL		3,476	
Windfall	Other	1,050	
Sites under 10 dwellings	Other	1,158	
Total Other		2,208	
Grand Total Housing Development for 2021-2026		10,635	

Figure A.1: 2006 – 2016, Indicative location of housing developments

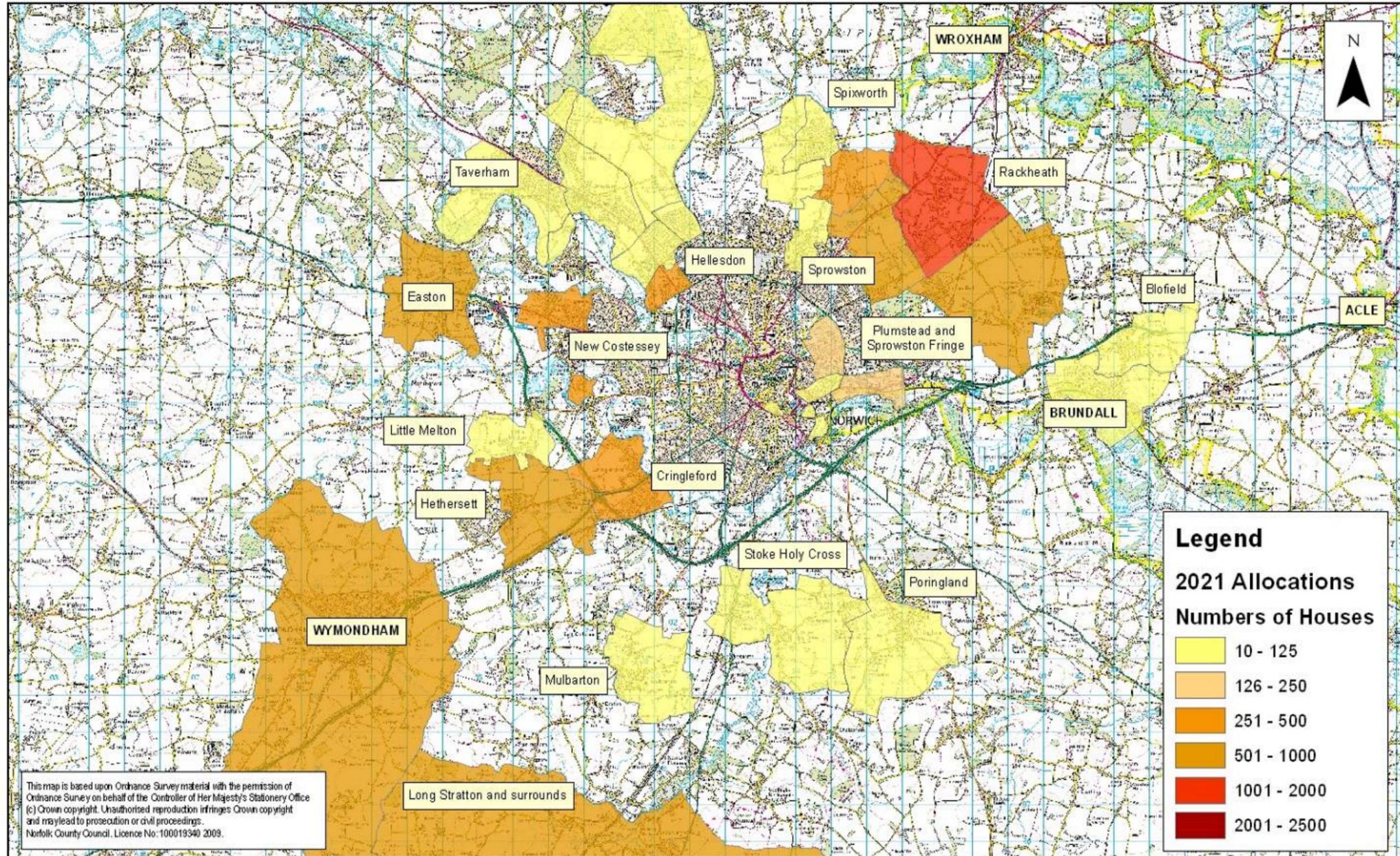


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Figure A.2: 2016-2021, Indicative location of housing developments

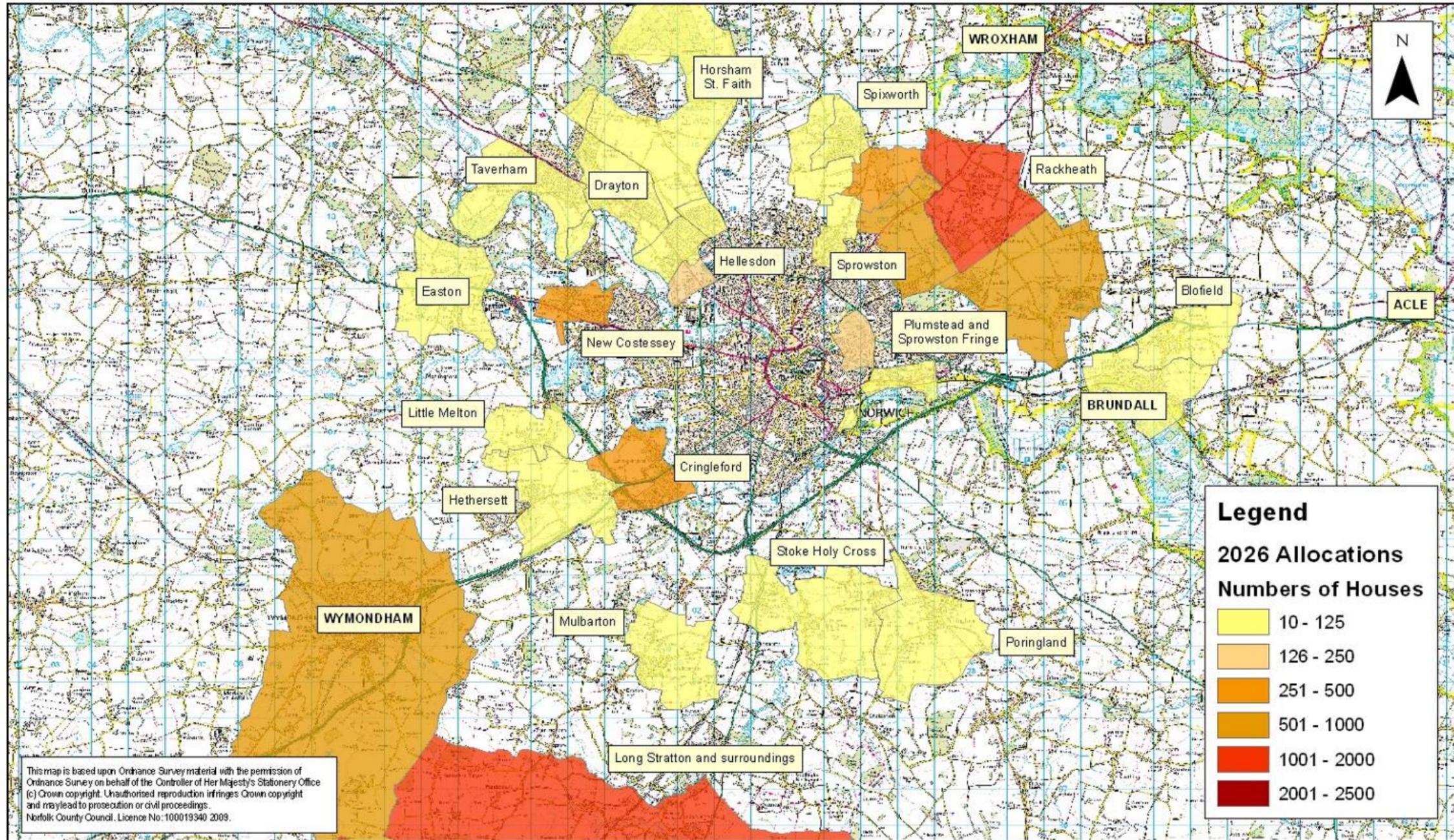


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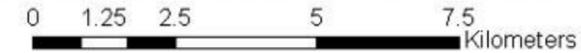


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Figure A.3: 2021-2026, Indicative location of housing developments



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Figure A.4: 2006 – 2016, Indicative location of employment developments

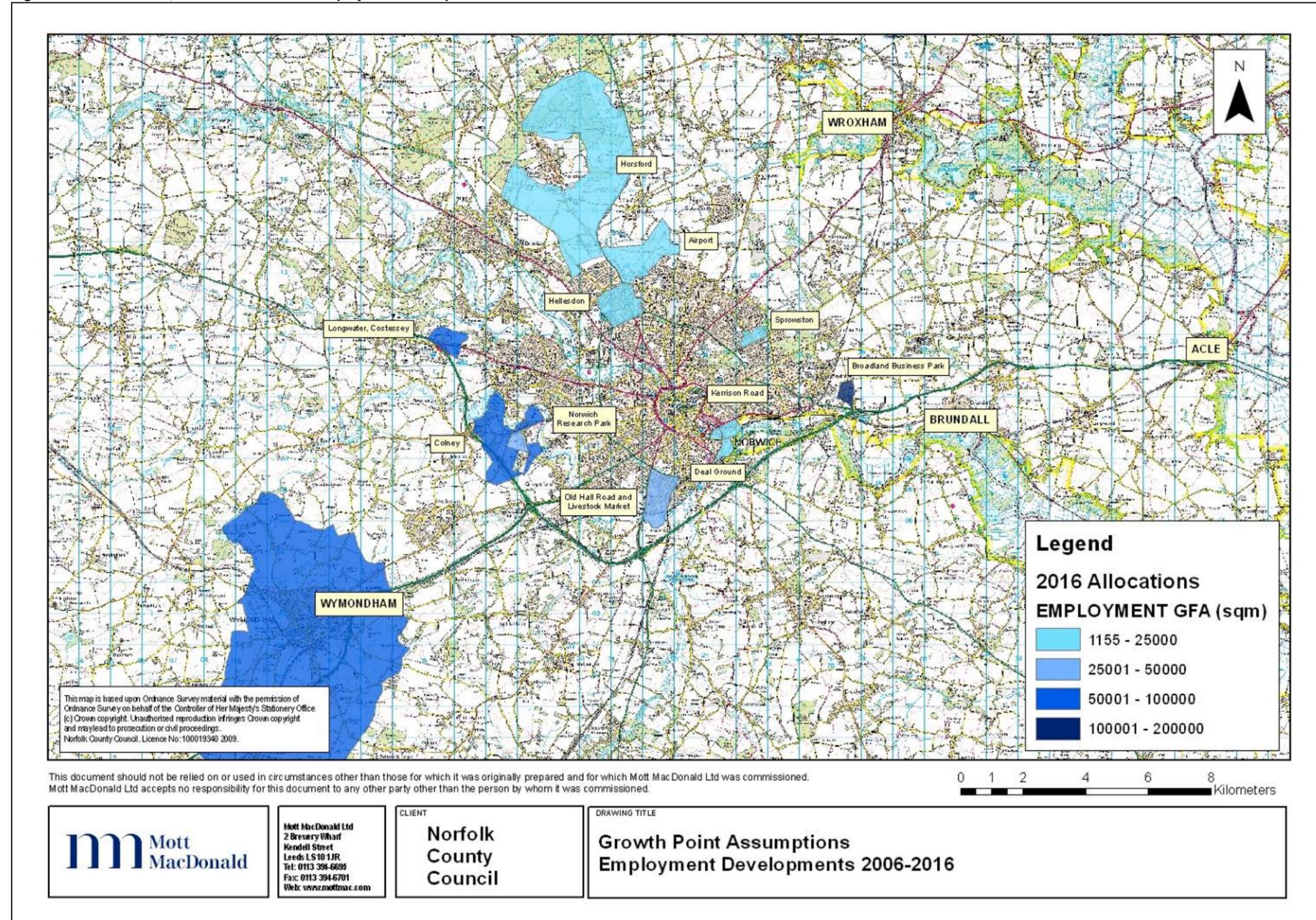
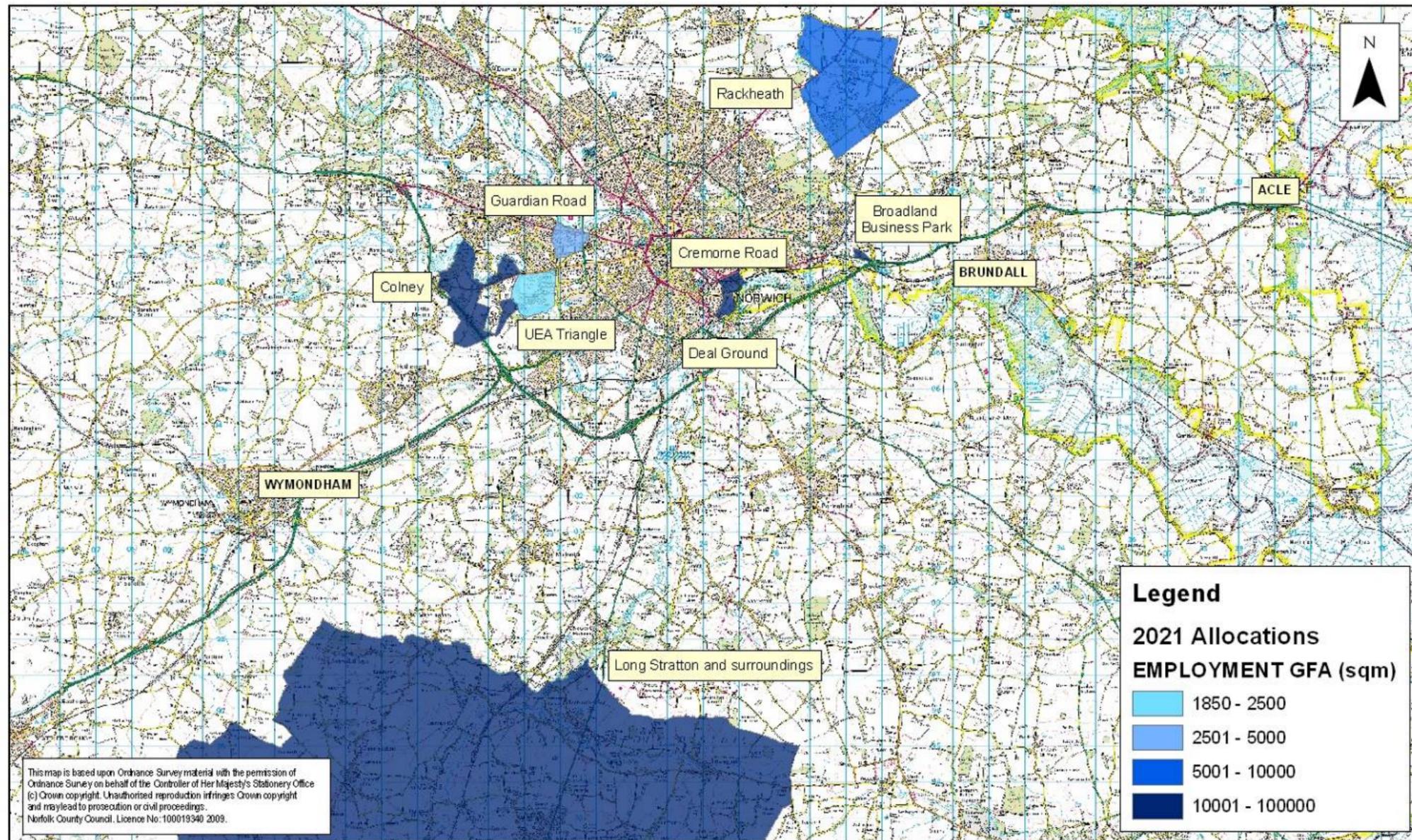


Figure A.5: 2012-2021, Indicative location of employment developments

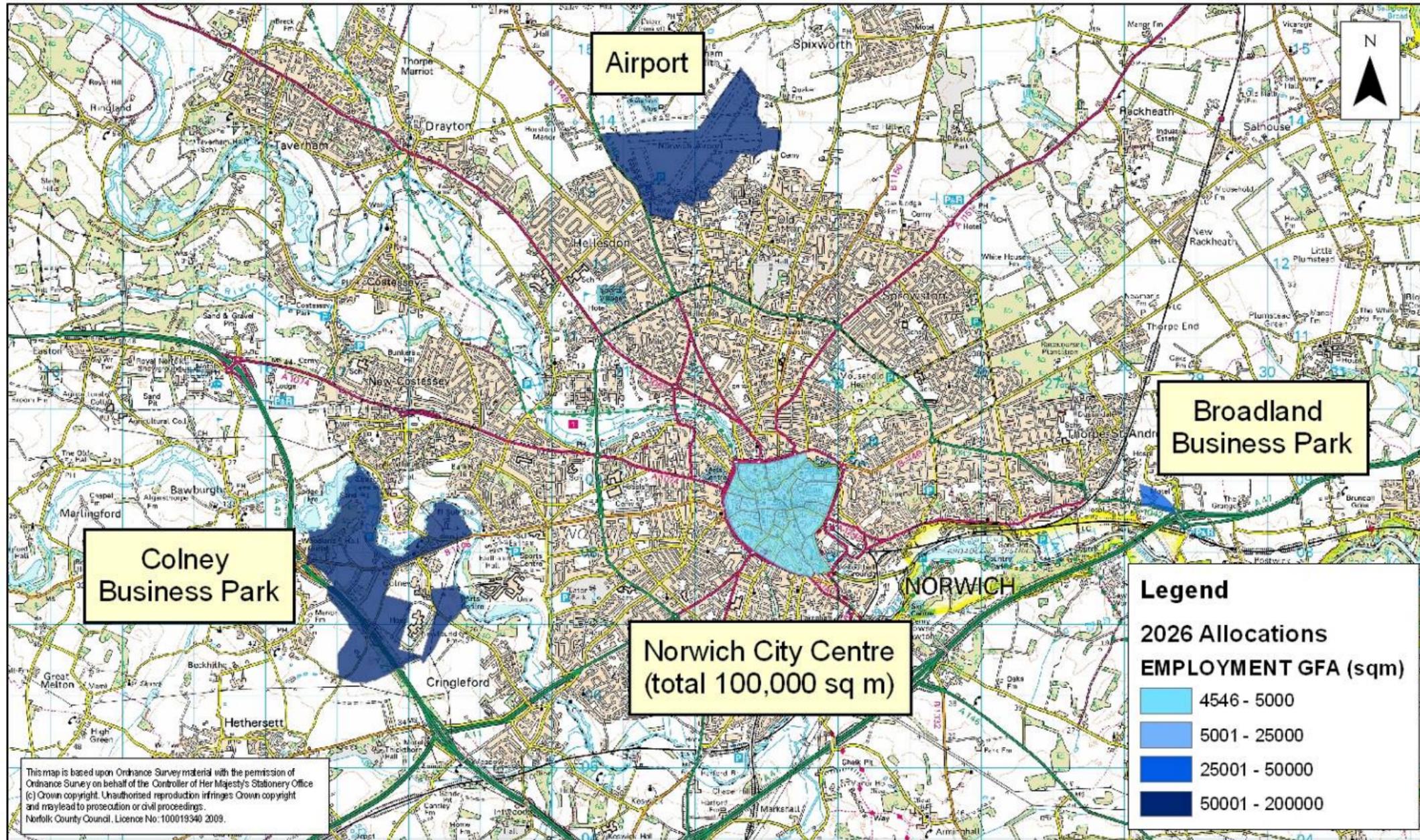


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Figure A.6: 2021-2026, Indicative location of employment developments



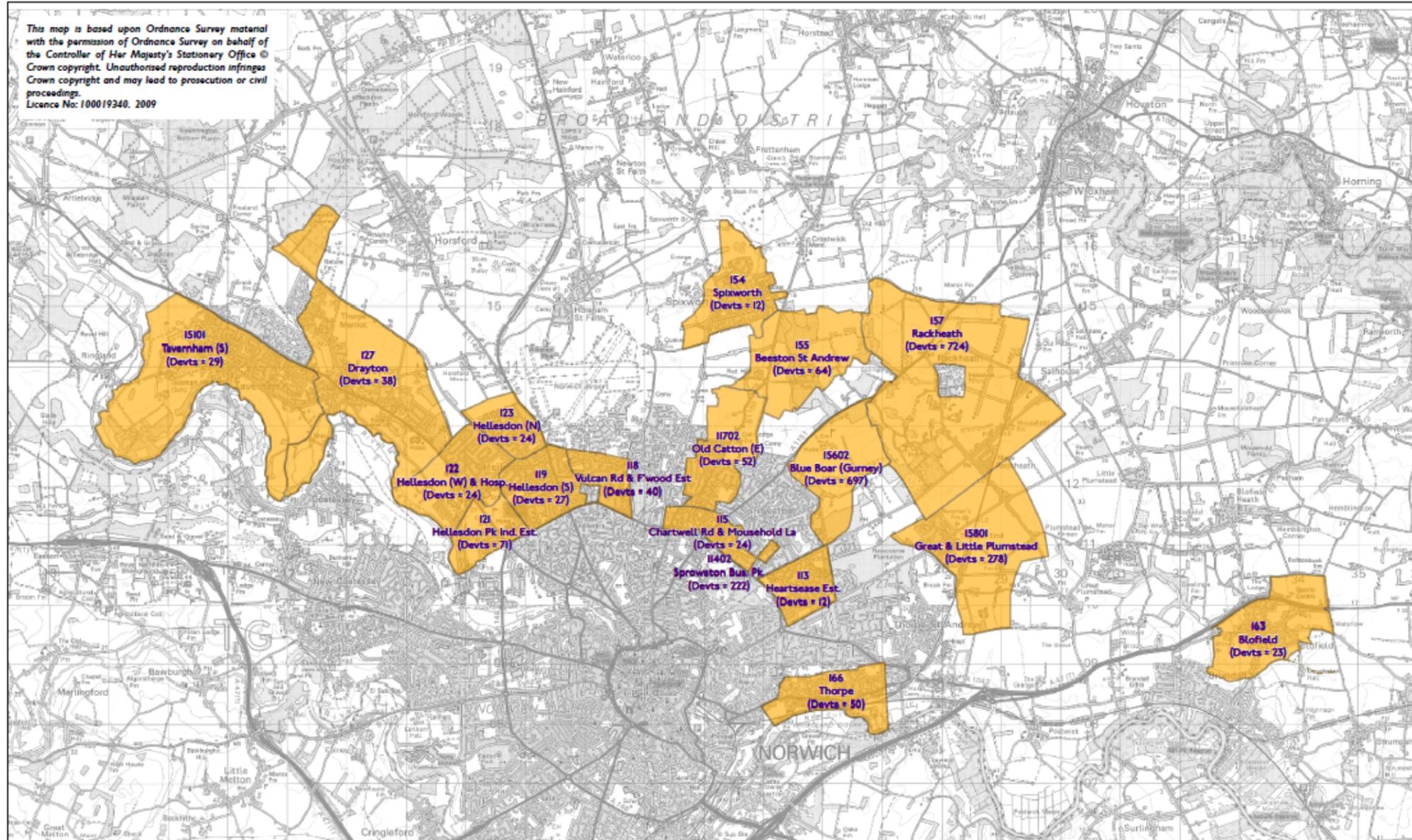
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Appendix B. Maps Showing Location of Dependent Housing & Business Development Rev A Model Zones

Figure B.1: 2006-2012, Indicative location of dependent housing model zones



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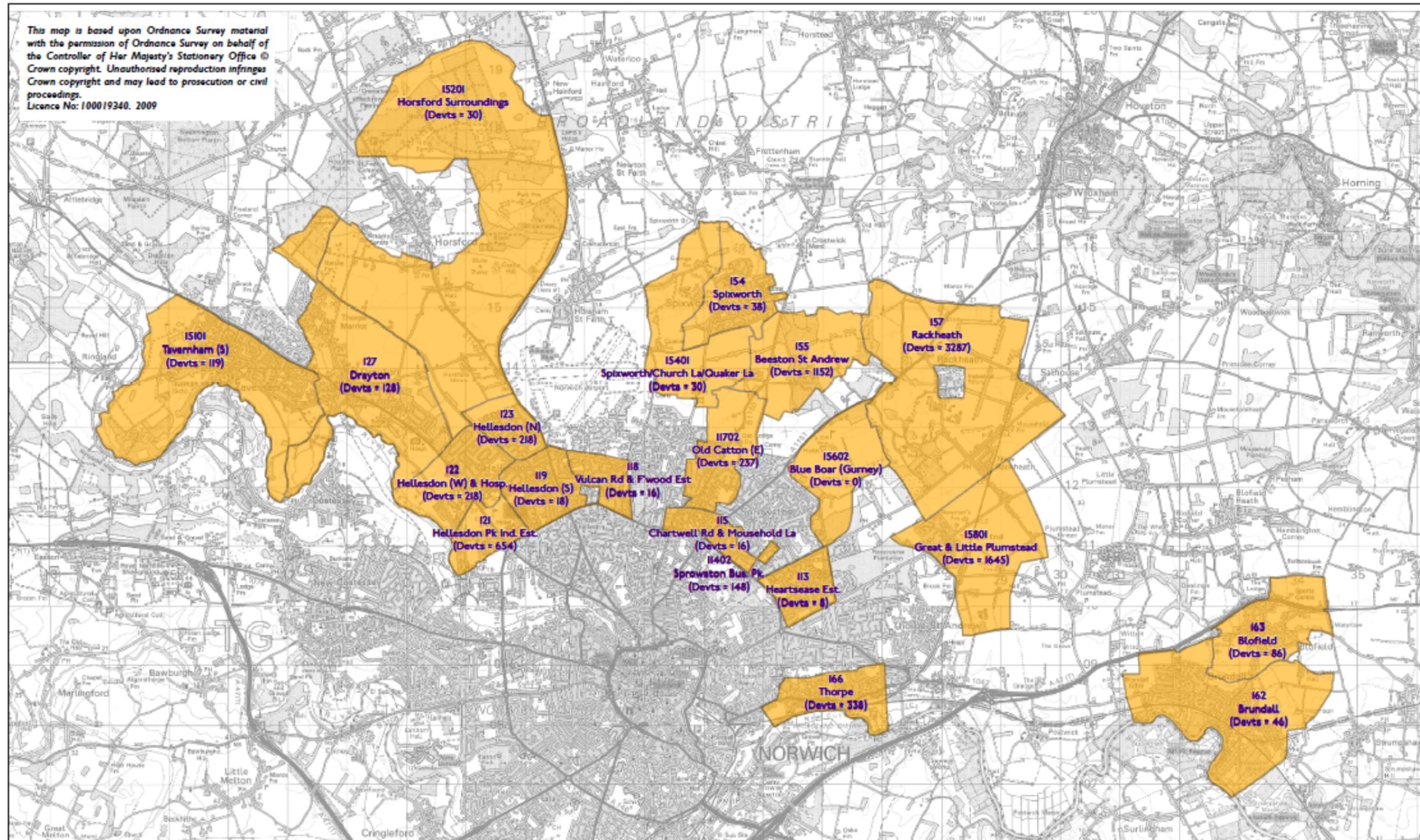
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NORWICH AREA TRANSPORT STRATEGY
JCS: Location of Housing Developments
2006 - 2012 Model Zones

REV.	DESCRIPTION	CH'K'D	DATE
A	Draft: For Evaluation	GW	04/09/09
B	----	----	----
C	----	----	----
D	----	----	----

INIT.	DATE	REPRDR_Assessment_12Oct2009	SCALE	FILE No.
DRAWN BY	SWC	21/05/09	Not To Scale	---
CHECKED BY	---	---	---	---
PROJECT TITLE Norwich NATS				

Figure B.2: 20012-2027, Indicative location of dependent housing model zones,



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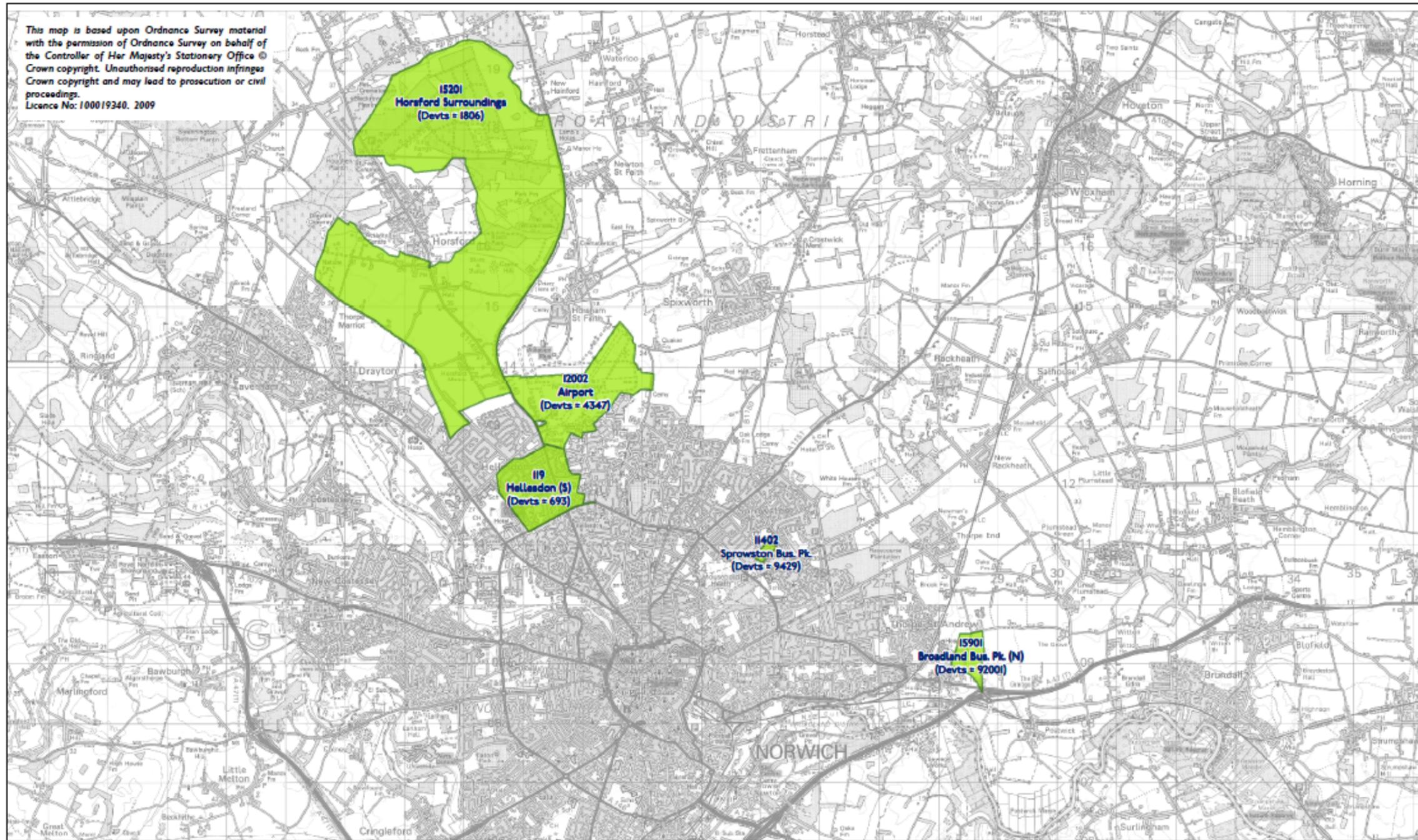
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JCS: Location of Housing Developments
2012 - 2027 Model Zones

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Figure B.3: 2006-2012, Indicative location of dependent business model zones



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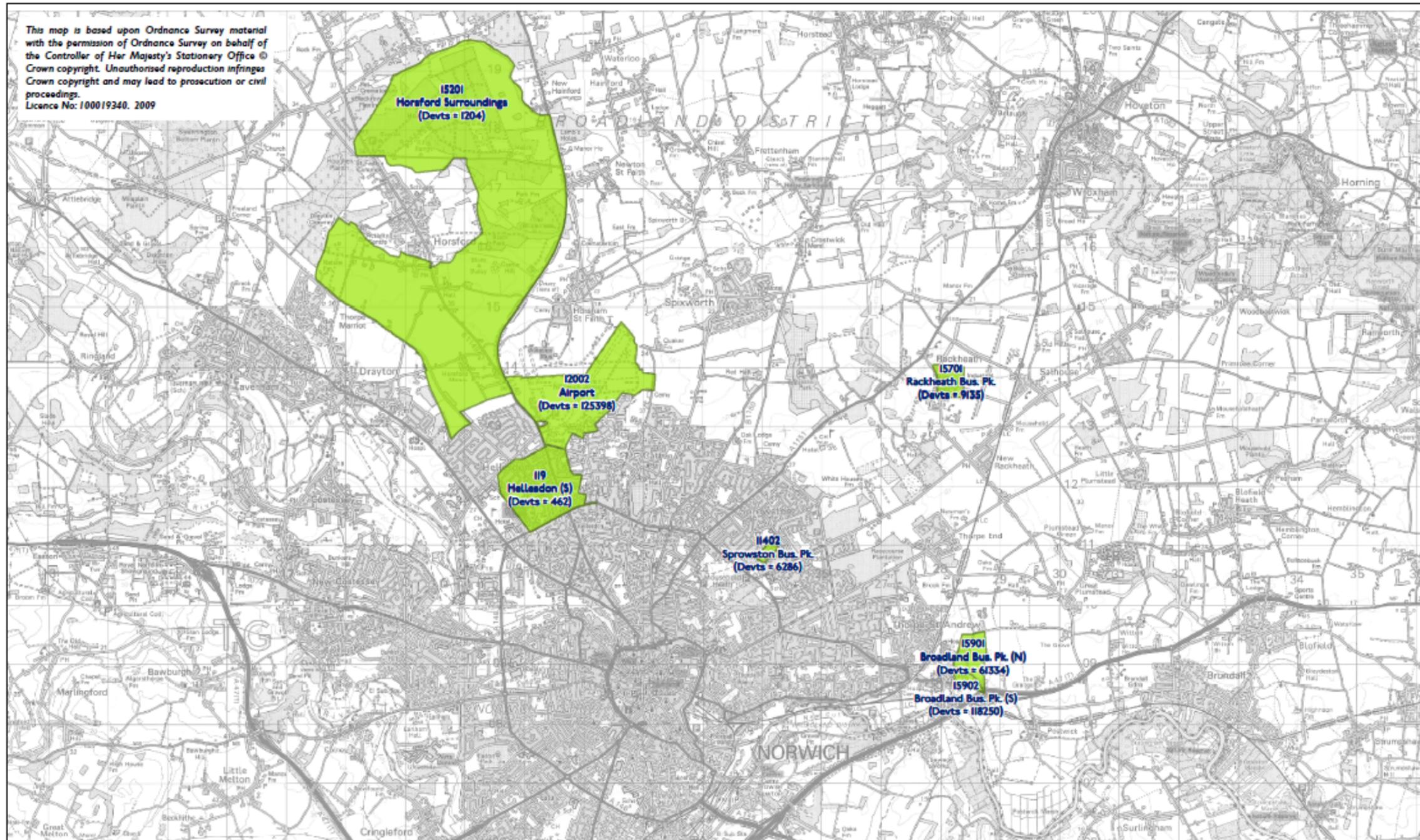
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Figure B.4: 2012-2027, Indicative location of dependent business model zones



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DWC	21/05/09	SCALE	FILE No.
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Appendix C. Vehicle Queues, Link Cruise Time and Travel Time

Table C.1: Transient queues - Simulation Area

Simulation area	Transient queues (PCU.hrs)			% Difference from Base Year		
	AM	IP	PM	AM	IP	PM
2006	2410	1458	2291	-	-	-
TEMPRO	2733	1695	2510	13%	16%	10%
	2518	1576	2325	4%	8%	1%
	3347	2113	3053	39%	45%	33%
	3105	1934	2835	29%	33%	24%
	2746	1684	2498	14%	15%	9%
Part JCS	2523	1564	2315	5%	7%	1%
	3380	2166	3040	40%	49%	33%
	3110	1922	2829	29%	32%	23%
Full JCS	2753	1692	2493	14%	16%	9%
	2518	1561	2304	4%	7%	1%
	3482	2117	3038	44%	45%	33%
	3148	1881	2821	31%	29%	23%

Table C.2: Transient queues - Buffer area

Simulation area	Transient queues (PCU.hrs)			% Difference from Base Year		
	AM	IP	PM	AM	IP	PM
2006	560	148	541	-	-	-
TEMPRO	695	220	676	24%	49%	25%
	741	225	695	32%	52%	28%
	1148	487	1073	105%	228%	98%
	1193	497	1127	113%	235%	108%
Part JCS	732	226	681	31%	52%	26%
	781	230	704	39%	55%	30%
	1368	537	1145	144%	262%	112%
	1426	556	1215	155%	275%	124%
Full JCS	715	222	677	28%	50%	25%
	762	227	699	36%	53%	29%
	1320	556	1118	136%	275%	107%
	1352	571	1186	142%	285%	119%

Table C.3: Transient queues - Total

Total		Transient queues (PCU.hrs)			% Difference from Base Year		
		AM	IP	PM	AM	IP	PM
2006		2970	1606	2832	-	-	-
TEMPRO	2012DM	3428	1915	3186	15%	19%	12%
	2012DS	3259	1801	3020	10%	12%	7%
	2027DM	4495	2599	4126	51%	62%	46%
	2027DS	4298	2431	3961	45%	51%	40%
Part JCS	2012DM	3477	1909	3179	17%	19%	12%
	2012DS	3304	1794	3019	11%	12%	7%
	2027DM	4748	2703	4185	60%	68%	48%
	2027DS	4536	2478	4044	53%	54%	43%
Full JCS	2012DM	3468	1914	3170	17%	19%	12%
	2012DS	3281	1788	3003	10%	11%	6%
	2027DM	4801	2674	4156	62%	66%	47%
	2027DS	4500	2453	4006	52%	53%	41%

Table C.4: Over-capacity queues - Simulation area

Simulation area		Over-capacity queues (PCU.hrs)			% Difference from Base Year		
		AM	IP	PM	AM	IP	PM
2006		1690	92	777	-	-	-
TEMPRO	2693	253	1459	1459	59%	173%	88%
	2249	230	1153	1153	33%	149%	48%
	5484	710	2820	2820	225%	668%	263%
	4597	590	2273	2273	172%	538%	193%
	3097	243	1456	1456	83%	163%	87%
Part JCS	2652	210	1175	1175	57%	127%	51%
	7237	800	3182	3182	328%	766%	309%
	5927	669	2748	2748	251%	624%	254%
Full JCS	3216	238	1404	1404	90%	157%	81%
	2608	206	1145	1145	54%	123%	47%
	7140	677	2995	2995	323%	632%	285%
	5778	557	2466	2466	242%	502%	217%

Table C.5: Over-capacity queues - Buffer area

Simulation area		Over-capacity queues (PCU.hrs)			% Difference from Base Year		
		AM	IP	PM	AM	IP	PM
2006		0	0	0	-	-	-
TEMPRO	0	0	19	19.3	-	-	-
	0	0	21	21.1	-	-	-
	1	0	129	129.3	-	-	-
	7	0	120	120.4	-	-	-
Part JCS	0	0	22	22.3	-	-	-
	0	0	21	20.5	-	-	-
	229	0	231	231.1	-	-	-
	259	0	223	222.6	-	-	-
Full JCS	0	0	19	18.7	-	-	-
	0	0	14	13.9	-	-	-
	239	0	216	216.1	-	-	-
	237	0	211	211	-	-	-

Table C.6: Over-capacity queues - Total

Total		Over-capacity queues (PCU.hrs)			% Difference from Base Year		
		AM	IP	PM	AM	IP	PM
2006		1690	92	777	-	-	-
TEMPRO	2012DM	2693	253	1479	59%	173%	90%
	2012DS	2249	230	1174	33%	149%	51%
	2027DM	5485	710	2950	225%	668%	280%
	2027DS	4604	590	2394	172%	538%	208%
Part JCS	2012DM	3097	243	1478	83%	163%	90%
	2012DS	2652	210	1195	57%	127%	54%
	2027DM	7466	800	3413	342%	766%	339%
	2027DS	6186	669	2970	266%	624%	282%
Full JCS	2012DM	3216	238	1423	90%	157%	83%
	2012DS	2608	206	1159	54%	123%	49%
	2027DM	7380	677	3211	337%	632%	313%
	2027DS	6015	557	2677	256%	502%	244%

Appendix D. Trip Totals by User Class (PCUs)

Table D.1: 2006 Base Year Trip Totals - AM Peak

User Class	User Class Definition	Trip Totals
1	commuting, income <£17,500	4887
2	commuting, income £17,500-£35,000	10866
3	commuting, income >£35,000	12945
4	Cars employer's business	7064
5	other, income <£17,500	6352
6	other, income £17,500-£35,000	7178
7	other, income >35,000	7301
8	LGV employer's business	3071
9	HGV	4862
	TOTAL	64,526

Table D.2: 2006 Base Year Trip Totals - IP

User Class	User Class Definition	Reference Demand Pre-DIADEM
1	commuting, income <£17,500	1993
2	commuting, income £17,500-£35,000	4072
3	commuting, income >£35,000	4341
4	Cars employer's business	5124
5	other, income <£17,500	7533
6	other, income £17,500-£35,000	7845
7	other, income >35,000	8268
8	LGV employer's business	2723
9	HGV	2784
	TOTAL	44,681

Table D.3: 2006 Base Year Trip Totals - PM Peak

User Class	User Class Definition	Reference Demand Pre-DIADEM
1	Commuting, income <£17,500	4191
2	commuting, income £17,500-£35,000	9403
3	Commuting, income >£35,000	11076
4	Cars employer's business	6297
5	Other, income <£17,500	7309
6	other, income £17,500-£35,000	8476
7	other, income >35,000	8133
8	LGV employer's business	2712
9	HGV	1902
	TOTAL	59,499

Table D.4: 2012 DM Trip Totals - AM Peak

User Class	User Class Definition	Reference Demand Pre-DIADEM	Post-DIADEM TEMPRO	Post-DIADEM Scenario 1	Post-DIADEM Scenario 2
1	commuting, income <£17,500	5,292	5,204	5,185	5,188
2	commuting, income £17,500-£35,000	11,735	11,600	11,571	11,559
3	commuting, income >£35,000	13,960	13,857	13,816	13,814
4	Cars employer's business	7,561	7,554	7,545	7,546
5	other, income <£17,500	7,021	6,918	6,901	6,902
6	other, income £17,500-£35,000	7,928	7,848	7,837	7,834
7	other, income >35,000	8,064	8,001	7,986	7,983
8	LGV employer's business	3,556	3,556	3,547	3,547
9	HGV	5,076	5,075	5,069	5,073
	TOTAL	70,192	69,613	69,459	69,447

Table D.5: 2012 DM Trip Totals - IP

User Class	User Class Definition	Reference Demand Pre-DIADEM	Post-DIADEM TEMPRO	Post-DIADEM Scenario 1	Post-DIADEM Scenario 2
1	commuting, income <£17,500	2,125	2,104	2,106	2,108
2	commuting, income £17,500-£35,000	4,339	4,309	4,311	4,313
3	commuting, income >£35,000	4,621	4,600	4,601	4,600
4	Cars employer's business	5,435	5,429	5,426	5,427
5	other, income <£17,500	8,310	8,257	8,128	8,259
6	other, income £17,500-£35,000	8,653	8,613	8,626	8,609
7	other, income >35,000	9,119	9,088	9,092	9,084
8	LGV employer's business	3,131	3,131	3,126	3,128
9	HGV	2,895	2,895	2,894	2,894
	TOTAL	48,628	48,426	48,311	48,421

Table D.6: 2012 DM Trip Totals - PM Peak

User Class	User Class Definition	Reference Demand Pre-DIADEM	Post-DIADEM TEMPRO	Post-DIADEM Scenario 1	Post-DIADEM Scenario 2
1	commuting, income <£17,500	4,435	4,394	4,352	4,352
2	commuting, income £17,500-£35,000	9,942	9,811	9,809	9,809
3	commuting, income >£35,000	11,701	11,587	11,590	11,590
4	Cars employer's business	6,653	6,632	6,625	6,628
5	other, income <£17,500	7,999	7,901	7,902	7,898
6	other, income £17,500-£35,000	9,270	9,190	9,187	9,191
7	other, income >35,000	8,897	8,828	8,824	8,828
8	LGV employer's business	3,129	3,129	3,123	3,122
9	HGV	1,987	1,988	1,986	1,987
	TOTAL	64,014	63,460	63,398	63,405

Table D.7: 2027 DM Trip Totals - AM Peak

User Class	User Class Definition	Reference Demand Pre-DIADEM	Post-DIADEM TEMPRO	Post-DIADEM Scenario 1	Post-DIADEM Scenario 2
1	commuting, income <£17,500	6,235	6,188	6,123	6,124
2	commuting, income £17,500-£35,000	13,763	13,671	13,523	13,535
3	commuting, income >£35,000	16,329	16,241	16,077	16,083
4	Cars employer's business	8,818	8,812	8,802	8,803
5	other, income <£17,500	8,324	8,254	8,221	8,216
6	other, income £17,500-£35,000	9,387	9,329	9,289	9,291
7	other, income >35,000	9,548	9,496	9,455	9,460
8	LGV employer's business	5,249	5,249	5,240	5,239
9	HGV	5,588	5,588	5,586	5,584
	TOTAL	83,241	82,827	82,315	82,335

Table D.8: 2027 DM Trip Totals - IP

User Class	User Class Definition	Reference Demand Pre-DIADEM	Post-DIADEM TEMPRO	Post-DIADEM Scenario 1	Post-DIADEM Scenario 2
1	commuting, income <£17,500	2,435	2,428	2,424	2,425
2	commuting, income £17,500-£35,000	4,962	4,952	4,941	4,951
3	commuting, income >£35,000	5,274	5,266	5,264	5,261
4	Cars employer's business	6,215	6,214	6,208	6,212
5	other, income <£17,500	9,943	9,922	9,931	9,921
6	other, income £17,500-£35,000	10,351	10,336	10,349	10,330
7	other, income >35,000	10,907	10,895	10,899	10,887
8	LGV employer's business	4,584	4,584	4,580	4,579
9	HGV	3,187	3,187	3,188	3,187
	TOTAL	57,858	57,785	57,785	57,754

Table D.9: 2027 DM Trip Totals - PM Peak

User Class	User Class Definition	Reference Demand Pre-DIADEM	Post-DIADEM TEMPRO	Post-DIADEM Scenario 1	Post-DIADEM Scenario 2
1	commuting, income <£17,500	5,004	4,963	4,957	4,960
2	commuting, income £17,500-£35,000	11,195	11,116	11,109	11,111
3	commuting, income >£35,000	13,140	13,063	13,058	13,062
4	Cars employer's business	7,568	7,557	7,555	7,556
5	other, income <£17,500	9,502	9,451	9,447	9,450
6	other, income £17,500-£35,000	11,004	10,976	10,966	10,969
7	other, income >35,000	10,562	10,532	10,522	10,527
8	LGV employer's business	4,584	4,584	4,581	4,582
9	HGV	2,198	2,198	2,198	2,198
	TOTAL	74,758	74,440	74,394	74,413

Table D.10: 2012 DS Trip Totals - AM Peak

User Class	User Class Definition	Reference Demand Pre-DIADEM	Post-DIADEM TEMPRO	Post-DIADEM Scenario 1	Post-DIADEM Scenario 2
1	commuting, income <£17,500	5,292	5,204	5,186	5,190
2	commuting, income £17,500-£35,000	11,735	11,601	11,573	11,565
3	commuting, income >£35,000	13,960	13,857	13,817	13,819
4	Cars employer's business	7,561	7,555	7,546	7,547
5	other, income <£17,500	7,021	6,920	6,904	6,906
6	other, income £17,500-£35,000	7,928	7,851	7,840	7,839
7	other, income >£35,000	8,064	8,004	7,990	7,988
8	LGV employer's business	3,556	3,556	3,547	3,547
9	HGV	5,076	5,075	5,069	5,073
	TOTAL	70,192	69,623	69,472	69,475

Table D.11: 2012 DS Trip Totals - IP

User Class	User Class Definition	Reference Demand Pre-DIADEM	Post-DIADEM TEMPRO	Post-DIADEM Scenario 1	Post-DIADEM Scenario 2
1	commuting, income <£17,500	2,125	2,104	2,106	2,107
2	commuting, income £17,500-£35,000	4,339	4,308	4,310	4,312
3	commuting, income >£35,000	4,621	4,599	4,600	4,599
4	Cars employer's business	5,435	5,429	5,427	5,427
5	other, income <£17,500	8,310	8,256	8,127	8,259
6	other, income £17,500-£35,000	8,653	8,613	8,626	8,610
7	other, income >£35,000	9,119	9,088	9,092	9,084
8	LGV employer's business	3,131	3,131	3,126	3,128
9	HGV	2,895	2,895	2,894	2,894
	TOTAL	48,628	48,424	48,307	48,420

Table D.12: 2012 DS Trip Totals - PM Peak

User Class	User Class Definition	Reference Demand Pre-DIADEM	Post-DIADEM TEMPRO	Post-DIADEM Scenario 1	Post-DIADEM Scenario 2
1	commuting, income <£17,500	4,435	4,396	4,353	4,354
2	commuting, income £17,500-£35,000	9,942	9,813	9,811	9,812
3	commuting, income >£35,000	11,701	11,589	11,592	11,592
4	Cars employer's business	6,653	6,634	6,627	6,630
5	other, income <£17,500	7,999	7,904	7,905	7,901
6	other, income £17,500-£35,000	9,270	9,193	9,191	9,194
7	other, income >£35,000	8,897	8,832	8,828	8,832
8	LGV employer's business	3,129	3,129	3,123	3,122
9	HGV	1,987	1,988	1,986	1,987
	TOTAL	64,014	63,477	63,416	63,423

Table D.13: 2027 DS Trip Totals - AM Peak

User Class	User Class Definition	Reference Demand Pre-DIADEM	Post-DIADEM TEMPRO	Post-DIADEM Scenario 1	Post-DIADEM Scenario 2
1	commuting, income <£17,500	6,235	6,195	6,117	6,134
2	commuting, income £17,500-£35,000	13,763	13,685	13,513	13,557
3	commuting, income >£35,000	16,329	16,255	16,071	16,107
4	Cars employer's business	8,818	8,814	8,804	8,805
5	other, income <£17,500	8,324	8,260	8,229	8,225
6	other, income £17,500-£35,000	9,387	9,336	9,297	9,302
7	other, income >£35,000	9,548	9,504	9,464	9,471
8	LGV employer's business	5,249	5,249	5,240	5,239
9	HGV	5,588	5,588	5,586	5,584
	TOTAL	83,241	82,884	82,321	82,424

Table D.14: 2027 DS Trip Totals - IP

User Class	User Class Definition	Reference Demand Pre-DIADEM	Post-DIADEM TEMPRO	Post-DIADEM Scenario 1	Post-DIADEM Scenario 2
1	commuting, income <£17,500	2,435	2,428	2,414	2,425
2	commuting, income £17,500-£35,000	4,962	4,952	4,929	4,951
3	commuting, income >£35,000	5,274	5,266	5,254	5,261
4	Cars employer's business	6,215	6,214	6,208	6,213
5	other, income <£17,500	9,943	9,924	9,929	9,923
6	other, income £17,500-£35,000	10,351	10,338	10,346	10,333
7	other, income >£35,000	10,907	10,896	10,896	10,890
8	LGV employer's business	4,584	4,584	4,580	4,579
9	HGV	3,187	3,187	3,188	3,187
	TOTAL	57,858	57,790	57,746	57,762

Table D.15: 2027 DS Trip Totals - PM Peak

User Class	User Class Definition	Reference Demand Pre-DIADEM	Post-DIADEM TEMPRO	Post-DIADEM Scenario 1	Post-DIADEM Scenario 2
1	commuting, income <£17,500	5,004	4,962	5,000	4,958
2	commuting, income £17,500-£35,000	11,195	11,112	11,163	11,107
3	commuting, income >£35,000	13,140	13,059	13,084	13,057
4	Cars employer's business	7,568	7,557	7,553	7,556
5	other, income <£17,500	9,502	9,451	9,455	9,449
6	other, income £17,500-£35,000	11,004	10,960	10,955	10,953
7	other, income >£35,000	10,562	10,524	10,515	10,518
8	LGV employer's business	4,584	4,584	4,581	4,582
9	HGV	2,198	2,198	2,198	2,198
	TOTAL	74,758	74,407	74,503	74,379

Appendix E. Junction Delays

Please see Appendices Volumes 3 & 4.

Appendix F. Vehicle over Capacity Ratio

Please see Appendices Volumes 5 & 6.

Appendix G. Traffic Flows (PCUs)

Figure G.1: Traffic Flow Locations

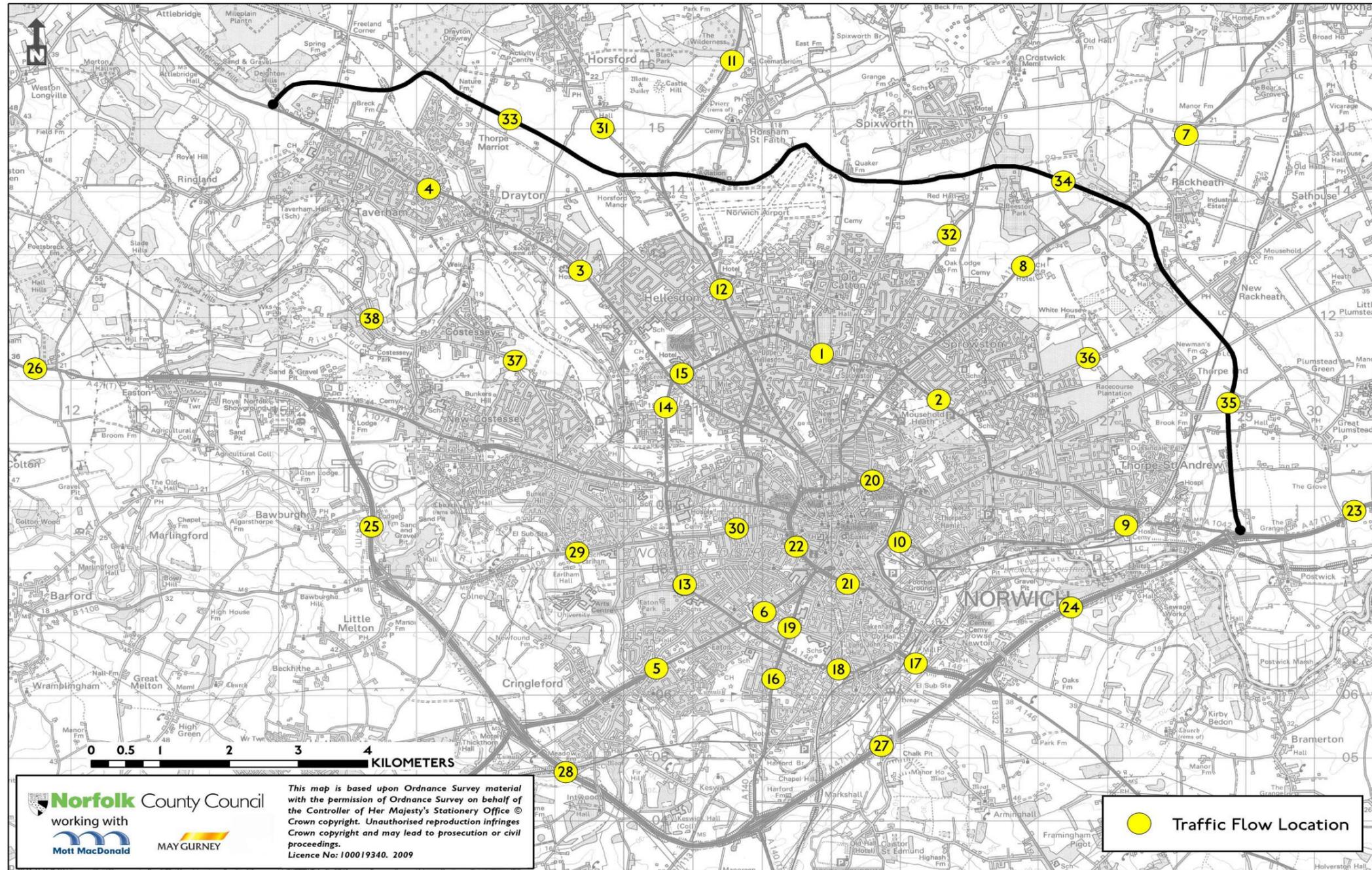


Table G.1: 2006, 2012 and 2027 Key Road Flows - TEMPRO 5.4

Ref	Road	2006 Flow			Do Minimum 2012 Flow			Do Something 2012 Flow			Do Minimum 2027 Flow			Do Something 2027 Flow		
		AM	IP	PM	AM	IP	PM	AM	IP	PM	AM	IP	PM	AM	IP	PM
1	A1042	1938	2218	2332	2078	2188	2302	2014	1969	2391	2120	2299	2289	2076	2113	2396
2	A1042	2022	1995	2151	2135	2125	2184	1943	1803	2182	2246	2342	2181	2048	2065	2295
3	A1067	1072	965	1227	1087	1145	1403	973	939	1186	1126	1207	1391	1005	993	1199
4	A1067	1042	967	1334	1021	1092	1471	514	656	840	958	1236	1525	518	724	914
5	A11	2421	1705	2330	2495	1931	2360	2360	1773	2361	2649	2180	2476	2655	2052	2438
6	A11	932	702	811	1059	831	910	900	741	875	1052	887	1059	1019	846	991
7	A1151	1257	855	1377	1419	965	1468	1218	991	1345	1545	1133	1480	1348	1182	1478
8	A1151	896	856	1001	945	915	1023	766	880	1197	999	1010	1346	951	1125	1393
9	A1242	997	647	1236	904	662	1253	842	535	988	1184	780	1511	1010	598	1146
10	A1242	764	447	586	727	529	587	614	304	503	777	640	711	651	356	612
11	A140	1144	894	1270	1190	954	1281	1214	955	1333	1337	1103	1363	1369	1142	1492
12	A140	1590	1151	1522	1516	1154	1669	1311	1101	1606	1595	1374	1909	1521	1247	1786
13	A140	1331	1374	1644	1234	1261	1248	1246	1228	1180	1236	1459	1283	1225	1420	1255
14	A140	2529	2281	2380	2750	2464	2688	2676	2367	2667	2933	2702	2784	2867	2678	2715
15	A140	2189	2022	2019	2293	2151	2420	2228	1987	2296	2366	2399	2477	2347	2273	2457
16	A140	1666	1263	1509	1512	1296	1527	1522	1251	1475	1536	1410	1547	1519	1377	1574
17	A146	3405	2218	3397	3330	2540	3275	3418	2537	3379	3191	2917	3616	3321	2905	3639
18	A146	1472	987	1467	1099	834	1228	1043	850	1197	1112	997	1398	1029	1039	1316
19	A146	719	469	525	651	567	701	647	540	679	717	601	755	705	586	759
20	A147	2080	1781	1898	2618	2471	2534	2535	2440	2473	2611	2491	2608	2611	2474	2456
21	A147	1490	1062	1530	1681	1311	1699	1721	1400	1681	1865	1515	1922	1904	1603	1916
22	A147	2423	1740	2096	2495	1976	2553	2482	2088	2542	2474	2102	2444	2500	2245	2409
23	A47	3689	2630	3752	3552	2825	3769	3344	2822	3662	4130	3343	4069	3685	3305	3812
24	A47	4128	2429	4111	4808	2900	4792	4858	3275	5289	5616	3703	5586	5362	4153	6100
25	A47	4311	2438	3900	4944	2933	4654	4387	2647	4102	5655	3770	5467	5262	3321	4895
26	A47	2399	1541	2129	2572	1787	2198	2379	1663	2091	2592	2060	2319	2542	1966	2207
27	A47	4332	2575	4206	5091	3164	4970	4991	3178	4840	5772	4149	5981	5642	4115	5797
28	A47	5055	2904	4853	5903	3540	5694	5554	3467	5274	6893	4688	6770	6627	4520	6385
29	B1108	2127	1641	2168	2262	1653	2172	2181	1577	2133	2476	1922	2471	2438	1791	2482
30	B1108	1003	844	824	1075	839	947	927	767	917	1187	879	1022	1054	818	1003
31	B1149	933	564	932	953	608	954	1128	665	1145	1065	689	1123	1114	786	1271
32	B1150	951	635	1029	858	666	909	865	509	744	1033	800	1064	1065	658	849
33	NDR	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	2520	1333	2554	#N/A	#N/A	#N/A	3437	1766	3402
34	NDR	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	4456	2176	4489	#N/A	#N/A	#N/A	5137	2933	5376
35	NDR	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	3303	1825	3710	#N/A	#N/A	#N/A	3699	2471	4073
36	Salhouse Road	984	620	916	1004	685	940	968	643	1003	1101	813	1006	1170	735	1215
37	Town House Road	471	84	248	521	91	249	485	104	256	619	116	280	562	121	282
38	West End	489	329	592	373	228	442	304	193	312	516	287	525	367	235	394

Table G.2: 2006, 2012 and 2027 Key Road Flows - Part JCS (Scenario 1)

Ref	Road	2006 Flow			Do Minimum 2012 Flow			Do Something 2012 Flow			Do Minimum 2027 Flow			Do Something 2027 Flow		
		AM	IP	PM	AM	IP	PM	AM	IP	PM	AM	IP	PM	AM	IP	PM
1	A1042	1938	2218	2332	2061	2181	2317	1984	1977	2386	2081	2314	2281	1987	2109	2381
2	A1042	2022	1995	2151	2094	2119	2159	1919	1787	2164	2150	2226	2152	2002	1914	2266
3	A1067	1072	965	1227	1076	1146	1406	975	930	1198	1160	1391	1405	1010	1263	1289
4	A1067	1042	967	1334	1044	1092	1459	513	647	843	1018	1023	1521	536	638	924
5	A11	2421	1705	2330	2545	2059	2396	2447	1892	2381	2761	2370	2480	2732	2271	2464
6	A11	932	702	811	1067	830	920	914	734	875	1161	889	1050	1002	799	933
7	A1151	1257	855	1377	1429	991	1467	1239	1023	1363	1554	1604	1468	1373	1237	1499
8	A1151	896	856	1001	965	939	992	743	873	1138	1034	1142	1342	952	1231	1343
9	A1242	997	647	1236	839	650	1263	830	527	995	1110	864	1531	923	667	1173
10	A1242	764	447	586	737	472	602	609	285	503	763	565	662	625	276	547
11	A140	1144	894	1270	1217	967	1287	1233	969	1345	1340	1015	1391	1432	1137	1539
12	A140	1590	1151	1522	1534	1152	1691	1302	1114	1605	1591	1601	1921	1432	1292	1817
13	A140	1331	1374	1644	1261	1238	1214	1258	1216	1134	1266	1321	1274	1270	1263	1232
14	A140	2529	2281	2380	2692	2428	2652	2647	2320	2646	2761	2685	2697	2703	2736	2721
15	A140	2189	2022	2019	2283	2153	2418	2217	1991	2290	2352	2478	2473	2290	2342	2456
16	A140	1666	1263	1509	1512	1274	1515	1510	1229	1461	1491	1318	1623	1512	1271	1622
17	A146	3405	2218	3397	3409	2528	3237	3443	2507	3333	3231	2866	3572	3358	2868	3535
18	A146	1472	987	1467	1067	815	1197	1044	832	1176	1173	975	1334	1143	963	1252
19	A146	719	469	525	662	559	686	660	535	672	686	563	744	714	532	788
20	A147	2080	1781	1898	2594	2469	2551	2487	2442	2489	2602	2466	2695	2589	2422	2514
21	A147	1490	1062	1530	1673	1266	1668	1697	1353	1620	1797	1336	1639	1764	1371	1554
22	A147	2423	1740	2096	2494	1950	2536	2480	2083	2539	2493	1956	2567	2509	2033	2585
23	A47	3689	2630	3752	3605	2869	3794	3418	2864	3692	4167	3437	4076	3816	3423	3830
24	A47	4128	2429	4111	5122	2994	4941	4955	3392	5427	5749	4111	5920	5515	4624	6419
25	A47	4311	2438	3900	5015	3074	4766	4506	2768	4256	5515	4125	5592	5137	3709	5163
26	A47	2399	1541	2129	2570	1803	2190	2379	1673	2087	2610	2061	2274	2467	1958	2170
27	A47	4332	2575	4206	5339	3277	5139	5119	3301	5013	5865	4524	6281	5770	4531	6222
28	A47	5055	2904	4853	6143	3710	5942	5764	3638	5534	7311	5308	7751	7027	5163	7415
29	B1108	2127	1641	2168	2384	1725	2223	2298	1619	2193	2677	2183	2395	2652	2049	2473
30	B1108	1003	844	824	1077	841	955	910	745	929	1163	827	1013	965	722	1004
31	B1149	933	564	932	968	613	955	1148	673	1144	1113	683	1143	1084	793	1295
32	B1150	951	635	1029	852	681	909	861	519	753	1054	860	1072	1026	737	856
33	NDR	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	2557	1361	2582	#N/A	#N/A	#N/A	3565	2300	3630
34	NDR	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	4477	2222	4504	#N/A	#N/A	#N/A	5183	4110	5522
35	NDR	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	3289	1877	3721	#N/A	#N/A	#N/A	3589	2797	4084
36	Salhouse Road	984	620	916	1026	696	927	957	646	987	1134	952	942	1163	774	1197
37	Town House Road	471	84	248	527	97	237	491	103	242	621	107	272	560	103	280
38	West End	489	329	592	363	233	453	308	199	329	434	290	480	328	257	424

Table G.3: 2006, 2012 and 2027 Key Road Flows - Full JCS (Scenario 2)

Ref	Road	2006 Flow			Do Minimum 2012 Flow			Do Something 2012 Flow			Do Minimum 2027 Flow			Do Something 2027 Flow		
		AM	IP	PM	AM	IP	PM	AM	IP	PM	AM	IP	PM	AM	IP	PM
1	A1042	1938	2218	2332	2028	2276	2346	2000	2029	2367	2010	2401	2313	2057	2140	2365
2	A1042	2022	1995	2151	2054	2035	2099	1829	1725	2104	2166	2062	2120	1949	1814	2161
3	A1067	1072	965	1227	1067	1131	1388	971	905	1178	1148	1173	1399	1024	931	1177
4	A1067	1042	967	1334	1070	1092	1470	508	644	845	1034	1252	1562	511	694	870
5	A11	2421	1705	2330	2552	2047	2385	2441	1883	2378	2731	2380	2470	2692	2223	2383
6	A11	932	702	811	1068	827	909	904	731	873	1149	893	1016	1033	797	909
7	A1151	1257	855	1377	1406	994	1446	1227	1018	1356	1453	1222	1419	1277	1253	1446
8	A1151	896	856	1001	955	975	1103	977	1089	1456	1269	1207	1580	1550	1561	1865
9	A1242	997	647	1236	805	643	1286	825	531	982	1141	767	1711	928	604	1177
10	A1242	764	447	586	728	467	602	608	287	504	787	576	680	605	289	580
11	A140	1144	894	1270	1217	955	1284	1217	966	1339	1376	1176	1410	1402	1206	1506
12	A140	1590	1151	1522	1512	1128	1662	1297	1074	1580	1571	1336	1856	1329	1224	1815
13	A140	1331	1374	1644	1250	1228	1226	1258	1205	1126	1265	1306	1294	1272	1242	1189
14	A140	2529	2281	2380	2606	2408	2628	2597	2304	2646	2669	2724	2688	2664	2548	2728
15	A140	2189	2022	2019	2242	2145	2390	2212	1986	2263	2371	2386	2472	2332	2227	2389
16	A140	1666	1263	1509	1510	1261	1523	1504	1219	1460	1482	1368	1650	1506	1300	1645
17	A146	3405	2218	3397	3393	2491	3222	3430	2475	3330	3280	2854	3597	3434	2834	3630
18	A146	1472	987	1467	1069	800	1197	1058	823	1168	1200	984	1319	1162	979	1256
19	A146	719	469	525	662	557	695	664	535	668	681	579	783	710	542	756
20	A147	2080	1781	1898	2561	2454	2567	2473	2430	2530	2599	2492	2666	2589	2483	2677
21	A147	1490	1062	1530	1663	1256	1647	1697	1345	1608	1802	1387	1561	1814	1457	1642
22	A147	2423	1740	2096	2486	1946	2529	2492	2077	2539	2490	2029	2574	2516	2135	2539
23	A47	3689	2630	3752	3514	2801	3735	3342	2817	3619	4175	3312	3977	3508	3292	3633
24	A47	4128	2429	4111	5190	3038	4994	5027	3418	5412	5997	4260	6014	5838	4786	6385
25	A47	4311	2438	3900	4970	3063	4755	4452	2749	4250	5531	4161	5596	5187	3719	5118
26	A47	2399	1541	2129	2554	1798	2178	2373	1664	2082	2609	2097	2271	2453	1992	2157
27	A47	4332	2575	4206	5379	3295	5160	5158	3304	5039	6065	4670	6342	5995	4644	6222
28	A47	5055	2904	4853	6109	3708	5944	5734	3620	5524	7401	5448	7741	7160	5265	7370
29	B1108	2127	1641	2168	2370	1713	2201	2275	1613	2183	2661	2239	2433	2634	2096	2529
30	B1108	1003	844	824	1080	841	958	911	737	939	1149	863	1005	912	762	1020
31	B1149	933	564	932	975	611	951	1154	672	1141	1109	723	1065	1059	819	1268
32	B1150	951	635	1029	840	690	941	828	500	723	944	932	1021	1098	693	743
33	NDR	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	2513	1370	2553	#N/A	#N/A	#N/A	3674	1961	3547
34	NDR	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	4581	2291	4517	#N/A	#N/A	#N/A	5323	3394	5385
35	NDR	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	3441	1951	3768	#N/A	#N/A	#N/A	3458	2865	3986
36	Salhouse Road	984	620	916	1064	716	861	969	670	1015	1097	980	929	1226	870	1241
37	Town House Road	471	84	248	521	96	239	485	103	241	609	105	271	555	165	266
38	West End	489	329	592	353	231	447	297	197	324	438	285	469	310	241	390

Table G.4: 2012 and 2027 Key Road Flows - Change in Flow (Part JCS - TEMPRO 5.4)

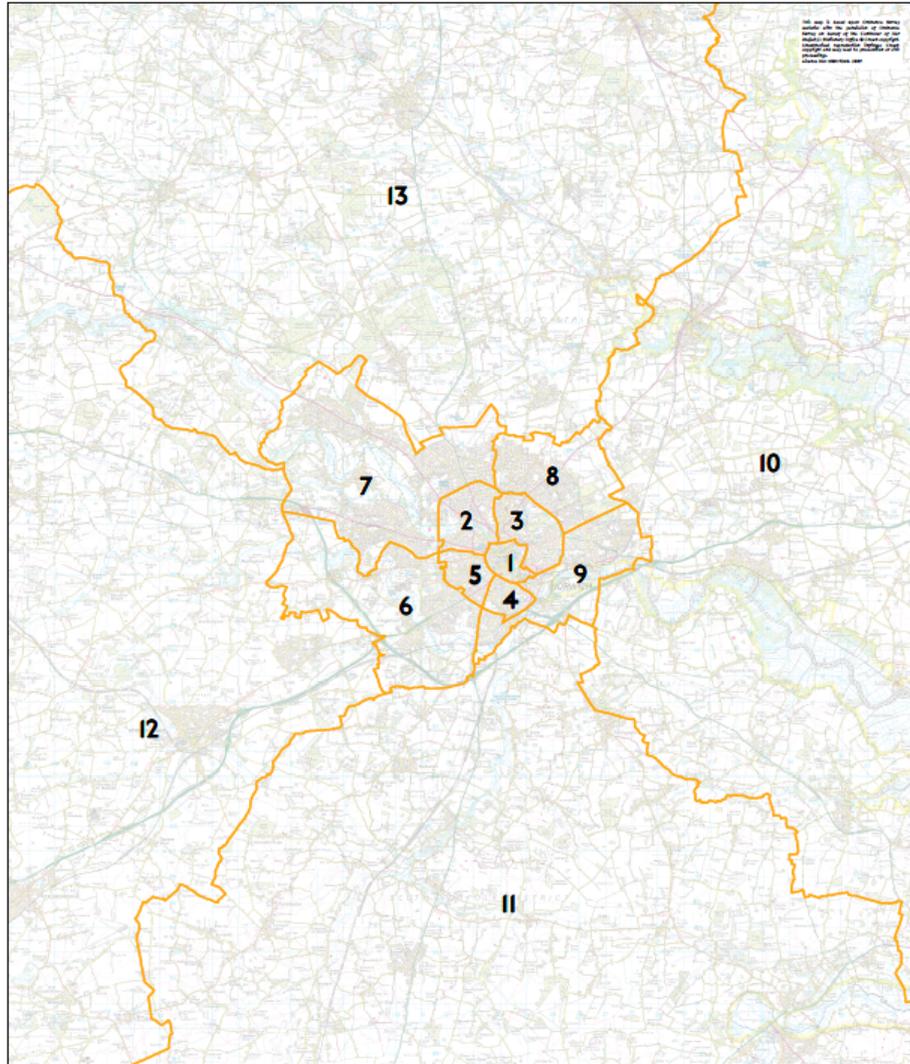
Ref	Road	Do Minimum 2012 Flow			Do Something 2012 Flow			Do Minimum 2027 Flow			Do Something 2027 Flow		
		AM	IP	PM	AM	IP	PM	AM	IP	PM	AM	IP	PM
1	A1042	-17	-7	16	-31	8	-4	-38	15	-8	-89	-4	-15
2	A1042	-41	-6	-25	-23	-16	-18	-97	-116	-29	-46	-152	-29
3	A1067	-11	1	3	2	-9	12	34	184	13	5	271	90
4	A1067	23	-1	-12	-1	-9	2	60	-213	-3	18	-86	11
5	A11	49	128	37	87	119	20	112	190	4	78	219	26
6	A11	8	-1	10	14	-7	0	109	2	-9	-17	-47	-58
7	A1151	10	26	-2	21	31	18	9	471	-12	25	55	21
8	A1151	20	24	-31	-23	-7	-58	35	132	-4	0	106	-50
9	A1242	-65	-13	10	-13	-7	7	-74	84	20	-87	69	26
10	A1242	11	-57	15	-5	-19	-1	-14	-74	-49	-26	-80	-66
11	A140	26	14	6	19	14	12	4	-88	28	63	-5	48
12	A140	17	-2	22	-9	13	-1	-3	227	12	-89	45	32
13	A140	27	-24	-34	13	-12	-46	30	-137	-9	45	-157	-23
14	A140	-58	-36	-36	-29	-47	-22	-172	-17	-87	-163	58	6
15	A140	-10	2	-1	-11	4	-5	-14	78	-4	-57	69	-1
16	A140	0	-22	-12	-12	-22	-14	-44	-92	76	-7	-106	48
17	A146	79	-12	-38	25	-30	-46	40	-50	-44	38	-37	-104
18	A146	-32	-19	-31	1	-18	-21	61	-22	-64	114	-76	-65
19	A146	11	-8	-15	12	-4	-7	-30	-38	-11	10	-54	29
20	A147	-24	-3	18	-47	2	16	-9	-25	87	-21	-52	58
21	A147	-7	-44	-31	-25	-47	-61	-68	-179	-283	-139	-232	-362
22	A147	-1	-26	-17	-2	-4	-3	19	-146	124	9	-211	175
23	A47	53	43	26	74	42	30	37	94	7	131	118	19
24	A47	314	94	149	98	117	138	133	409	334	154	471	320
25	A47	70	141	113	120	120	154	-140	355	125	-125	388	268
26	A47	-3	17	-8	0	10	-4	18	1	-45	-74	-8	-37
27	A47	248	112	168	128	123	173	93	376	299	128	416	425
28	A47	241	171	248	210	171	260	418	620	981	400	642	1030
29	B1108	122	73	51	117	41	60	201	261	-76	214	258	-8
30	B1108	2	2	8	-17	-23	12	-24	-52	-10	-89	-96	2
31	B1149	14	5	1	20	9	-1	48	-6	21	-30	7	25
32	B1150	-6	14	0	-4	9	9	21	61	9	-40	79	8
33	NDR	#N/A	#N/A	#N/A	38	28	27	#N/A	#N/A	#N/A	128	535	227
34	NDR	#N/A	#N/A	#N/A	20	47	15	#N/A	#N/A	#N/A	46	1177	146
35	NDR	#N/A	#N/A	#N/A	-14	52	12	#N/A	#N/A	#N/A	-110	327	11
36	Salhouse Road	22	11	-13	-12	3	-16	33	139	-64	-7	39	-17
37	Town House Road	6	5	-13	6	-1	-14	2	-8	-8	-2	-18	-2
38	West End	-10	5	12	4	5	17	-81	3	-45	-39	22	29

Table G.5: 2012 and 2027 Key Road Flows - Change in Flow (Full JCS – Part JCS)

Ref	Road	Do Minimum 2012 Flow			Do Something 2012 Flow			Do Minimum 2027 Flow			Do Something 2027 Flow		
		AM	IP	PM	AM	IP	PM	AM	IP	PM	AM	IP	PM
1	A1042	-33	96	29	16	52	-19	-72	87	31	69	31	-16
2	A1042	-40	-84	-59	-91	-62	-60	16	-165	-32	-53	-100	-105
3	A1067	-8	-14	-18	-4	-25	-20	-11	-218	-6	14	-332	-112
4	A1067	26	0	12	-5	-3	3	16	230	41	-25	56	-54
5	A11	7	-12	-11	-6	-9	-3	-30	10	-10	-40	-48	-81
6	A11	1	-4	-11	-10	-2	-2	-12	4	-34	31	-2	-23
7	A1151	-23	2	-21	-12	-5	-7	-101	-382	-48	-96	16	-53
8	A1151	-10	36	112	234	217	318	235	66	238	598	330	522
9	A1242	-34	-7	23	-5	4	-14	32	-97	180	5	-63	4
10	A1242	-9	-5	-1	-2	2	2	25	11	18	-21	13	34
11	A140	0	-13	-3	-16	-3	-7	36	162	19	-30	69	-34
12	A140	-22	-24	-29	-6	-40	-25	-20	-265	-65	-104	-68	-2
13	A140	-11	-10	12	0	-11	-8	0	-16	20	3	-21	-43
14	A140	-85	-21	-24	-50	-16	0	-92	39	-10	-39	-187	7
15	A140	-41	-8	-28	-5	-6	-28	19	-91	-1	42	-115	-67
16	A140	-2	-13	8	-6	-10	0	-9	50	27	-6	29	23
17	A146	-16	-37	-15	-13	-32	-3	49	-12	25	75	-34	95
18	A146	2	-15	0	14	-9	-8	27	9	-15	19	16	4
19	A146	-1	-2	9	4	0	-4	-5	16	38	-4	10	-31
20	A147	-33	-15	16	-14	-12	42	-3	26	-29	0	61	162
21	A147	-10	-10	-21	0	-9	-11	5	51	-78	50	87	88
22	A147	-8	-4	-6	12	-6	-1	-4	74	7	7	101	-46
23	A47	-91	-67	-59	-76	-47	-74	9	-124	-99	-308	-131	-197
24	A47	68	44	53	72	26	-16	247	149	94	323	162	-35
25	A47	-44	-11	-11	-54	-19	-6	16	36	4	50	10	-45
26	A47	-15	-5	-12	-6	-9	-5	-1	37	-3	-15	34	-13
27	A47	40	18	22	39	3	26	200	145	61	225	114	0
28	A47	-34	-3	2	-30	-19	-9	90	140	-10	133	102	-45
29	B1108	-14	-12	-22	-23	-6	-10	-17	56	38	-18	46	55
30	B1108	3	0	3	0	-8	11	-14	36	-8	-54	40	15
31	B1149	8	-2	-4	7	-1	-3	-4	41	-78	-25	27	-27
32	B1150	-12	10	33	-33	-19	-30	-110	72	-51	73	-44	-114
33	NDR	#N/A	#N/A	#N/A	-44	9	-29	#N/A	#N/A	#N/A	109	-340	-83
34	NDR	#N/A	#N/A	#N/A	104	69	14	#N/A	#N/A	#N/A	140	-715	-137
35	NDR	#N/A	#N/A	#N/A	152	74	47	#N/A	#N/A	#N/A	-131	68	-98
36	Salhouse Road	38	20	-66	12	24	28	-37	28	-13	63	96	44
37	Town House Road	-6	-1	2	-6	0	0	-12	-2	-1	-5	62	-14
38	West End	-10	-2	-6	-11	-2	-5	3	-5	-11	-18	-16	-34

Appendix H. Trip Totals (PCUs)

Figure H.1: NATS Model Sectors



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<p>Mott MacDonald County Hall Marston Lane Norwich NR1 2US Tel: 01603 767200 Fax: 01603 767443 Web: www.motmac.com</p>		<table border="1"> <thead> <tr> <th>REV.</th> <th>DESCRIPTION</th> <th>CHECKED</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Draft for Evaluation</td> <td>EC</td> <td>08/07/09</td> </tr> <tr> <td>B</td> <td>---</td> <td>---</td> <td>---</td> </tr> <tr> <td>C</td> <td>---</td> <td>---</td> <td>---</td> </tr> <tr> <td>D</td> <td>---</td> <td>---</td> <td>---</td> </tr> </tbody> </table>	REV.	DESCRIPTION	CHECKED	DATE	A	Draft for Evaluation	EC	08/07/09	B	---	---	---	C	---	---	---	D	---	---	---	<table border="1"> <thead> <tr> <th>DRAWN BY</th> <th>INIT.</th> <th>DATE</th> <th>GIS FILE REF: NATS_Zone4.mxd</th> </tr> </thead> <tbody> <tr> <td>ZVIC</td> <td>---</td> <td>08/07/09</td> <td>---</td> </tr> <tr> <td>CHECKED BY</td> <td>---</td> <td>---</td> <td>---</td> </tr> <tr> <td>APPROVED BY</td> <td>---</td> <td>---</td> <td>---</td> </tr> </tbody> </table> <p>PROJECT TITLE Norfolk Northern Distributor Route - HSC</p> <p>SCALE Not to Scale FILE No. 233906</p>	DRAWN BY	INIT.	DATE	GIS FILE REF: NATS_Zone4.mxd	ZVIC	---	08/07/09	---	CHECKED BY	---	---	---	APPROVED BY	---	---	---
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Table H.1: 2006 Base Year Trip Totals, AM Peak

AM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	1917	355	757	318	337	252	229	151	386	102	41	91	34	4970
2	429	1095	637	256	167	390	924	295	65	175	99	140	103	4775
3	803	471	753	70	81	83	222	383	459	320	128	100	116	3989
4	464	15	44	192	203	263	117	4	211	69	63	55	37	1737
5	429	184	126	344	461	489	233	20	131	142	116	220	78	2973
6	361	296	43	833	418	1566	644	10	558	231	202	355	110	5627
7	631	1157	381	213	323	925	3412	684	345	672	337	505	1005	10590
8	507	583	1187	38	32	37	735	722	470	348	126	161	219	5165
9	924	103	486	505	326	774	705	261	1221	364	197	142	133	6141
10	662	243	292	283	125	583	623	481	750	182	323	391	117	5055
11	575	242	155	300	137	463	360	176	526	270	94	407	410	4115
12	751	240	175	341	207	764	540	109	356	755	514	208	244	5204
13	344	279	159	207	89	363	991	242	235	178	319	291	488	4185
SUM	8797	5263	5195	3900	2906	6952	9735	3538	5713	3808	2559	3066	3094	64526

Table H.2: 2006 Base Year Trip Totals, IP

IP	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2672	183	157	72	86	190	320	259	312	302	280	274	132	5239
2	88	657	460	113	279	296	893	222	159	148	71	135	99	3620
3	156	409	599	131	174	66	350	366	381	185	72	59	73	3021
4	78	55	92	147	174	239	106	42	221	87	82	101	32	1456
5	84	485	129	238	374	228	165	43	127	60	57	80	41	2111
6	198	341	66	426	348	1011	593	15	430	251	231	353	171	4434
7	281	738	270	130	222	623	2489	484	244	349	199	339	564	6932
8	213	265	293	27	26	49	507	783	557	361	54	91	147	3373
9	335	161	383	189	155	407	551	467	807	459	244	133	80	4371
10	330	153	181	87	42	242	326	346	447	111	251	455	109	3080
11	307	72	80	84	58	235	199	60	251	194	105	246	167	2058
12	269	132	62	94	79	356	358	100	141	459	254	125	174	2603
13	187	108	74	26	43	190	646	168	115	109	184	147	385	2382
SUM	5198	3759	2846	1764	2060	4132	7503	3355	4192	3075	2084	2538	2174	44680

Table H.3: 2006 Base Year Trip Totals, PM Peak

PM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	1684	177	474	145	178	301	550	458	455	694	528	623	455	6722
2	393	798	470	170	213	304	1326	266	113	218	203	202	230	4906
3	506	408	854	136	85	115	506	639	274	271	140	141	172	4247
4	407	17	63	118	156	252	177	28	436	208	242	248	171	2523
5	541	184	131	288	384	463	329	34	71	102	106	165	82	2880
6	158	133	97	452	483	1249	661	51	484	422	427	583	296	5496
7	169	651	413	145	159	761	2677	1013	454	537	296	450	1150	8875
8	141	217	626	20	17	39	831	903	757	564	182	102	268	4667
9	346	73	497	322	197	430	617	691	1111	732	401	245	205	5867
10	152	142	291	48	138	236	507	471	390	270	429	566	129	3769
11	63	110	145	68	141	229	394	133	216	362	185	476	254	2776
12	107	158	148	60	235	393	513	190	153	621	542	187	351	3658
13	101	148	139	43	83	104	892	270	109	239	325	209	453	3115
SUM	4768	3216	4348	2015	2469	4876	9980	5147	5023	5240	4006	4197	4216	59501

Table H.4: 2012 TEMPRO 5.4 Reference Case Trip Totals, AM Peak

AM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2124	394	841	350	373	279	255	167	428	113	45	101	37	5507
2	474	1211	706	283	184	432	1022	325	71	192	109	155	114	5278
3	886	521	838	77	89	91	245	424	508	354	142	110	128	4413
4	514	16	49	213	226	291	130	4	234	77	70	61	41	1926
5	476	204	139	380	508	540	257	22	145	156	129	243	86	3285
6	393	329	47	911	456	1708	700	11	602	252	221	387	119	6136
7	679	1252	411	227	350	1001	3703	738	372	719	363	544	1087	11446
8	544	629	1284	41	34	40	792	782	507	374	136	171	235	5569
9	1017	113	531	555	360	843	767	281	1324	393	214	152	143	6693
10	710	260	312	303	135	622	665	512	804	196	346	415	125	5405
11	627	260	169	324	149	502	392	190	568	290	102	437	439	4449
12	817	259	189	369	223	829	584	117	384	800	552	221	261	5605
13	367	298	170	221	95	387	1064	259	250	190	343	310	521	4475
SUM	9628	5746	5686	4254	3182	7565	10576	3832	6197	4106	2772	3307	3336	70187

Table H.5: 2012 TEMPRO 5.4 Reference Case Trip Totals, IP

IP	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2924	200	173	79	95	209	352	284	343	329	306	300	144	5738
2	96	723	503	125	306	324	971	242	174	161	77	147	107	3956
3	172	448	655	143	191	72	382	397	417	200	79	65	80	3301
4	85	60	100	161	190	262	115	45	241	94	89	110	35	1587
5	92	532	141	260	409	249	180	47	138	65	62	87	45	2307
6	218	374	72	467	383	1098	643	16	467	273	251	384	185	4831
7	309	806	295	142	243	678	2705	523	265	377	216	367	612	7538
8	234	289	318	30	28	53	547	845	601	391	58	97	160	3651
9	368	176	420	207	170	442	592	507	877	499	265	144	86	4753
10	362	166	198	95	46	263	353	377	486	121	268	484	118	3337
11	337	79	88	92	63	256	216	65	273	206	114	264	179	2232
12	296	144	68	102	87	389	389	107	153	491	273	134	187	2820
13	204	118	81	28	47	207	703	182	124	117	198	158	411	2578
SUM	5697	4115	3112	1931	2258	4502	8148	3637	4559	3324	2256	2741	2349	48629

Table H.6: 2012 TEMPRO 5.4 Reference Case Trip Totals, PM Peak

PM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	1837	194	516	158	196	328	594	493	494	739	572	672	483	7276
2	429	873	513	186	233	333	1428	285	122	232	216	216	244	5310
3	554	446	935	149	93	125	541	686	296	288	150	150	183	4596
4	445	18	69	130	171	271	188	30	474	221	259	266	180	2722
5	588	201	142	315	419	503	354	36	76	109	115	176	86	3120
6	173	145	106	492	527	1345	707	55	518	447	458	627	314	5914
7	185	707	450	158	173	826	2878	1086	488	566	318	481	1224	9540
8	153	235	683	21	19	42	888	966	809	598	194	108	285	5001
9	377	80	542	348	214	460	655	737	1196	777	429	260	216	6291
10	165	154	315	53	149	253	538	503	418	289	458	600	136	4031
11	69	119	158	74	153	246	420	141	231	385	199	506	271	2972
12	116	172	160	65	255	421	548	200	163	656	580	197	370	3903
13	109	160	151	46	90	111	960	288	116	253	347	223	483	3337
SUM	5200	3504	4740	2195	2692	5264	10699	5506	5401	5560	4295	4482	4475	64013

Table H.7: 2012 TEMPRO 5.4 Trip Totals, AM Peak

AM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2063	384	828	348	367	278	255	169	426	119	46	125	38	5446
2	452	1194	691	267	178	417	1023	341	71	191	110	176	120	5231
3	837	517	827	74	87	92	246	416	521	342	148	110	131	4348
4	491	16	46	217	223	286	129	4	234	80	68	63	43	1900
5	459	207	138	367	496	530	263	23	138	154	118	254	91	3238
6	404	317	46	895	440	1704	704	10	566	251	243	394	123	6097
7	672	1227	395	223	337	982	3633	748	371	759	400	556	1079	11382
8	508	614	1280	40	32	38	804	787	508	381	133	174	230	5529
9	991	118	523	554	351	834	797	277	1297	380	226	174	145	6667
10	666	249	288	288	128	626	678	503	760	193	374	477	140	5370
11	613	251	156	315	143	489	388	169	523	294	104	457	477	4379
12	848	243	182	364	213	795	564	114	355	825	581	226	268	5578
13	349	289	170	218	89	373	1039	261	258	199	376	318	509	4448
SUM	9353	5626	5570	4170	3084	7444	10523	3822	6028	4168	2927	3504	3394	69613

Table H.8: 2012 TEMPRO 5.4 Trip Totals, IP

IP	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2859	190	166	75	87	197	336	276	331	338	352	337	151	5695
2	93	708	506	122	302	319	953	243	175	163	84	160	111	3939
3	165	442	652	141	187	71	374	384	419	201	89	73	84	3282
4	81	57	99	158	185	257	114	45	235	98	91	120	36	1576
5	87	526	142	254	398	242	180	46	136	67	67	98	47	2290
6	205	365	73	462	371	1063	640	16	471	284	270	401	193	4814
7	302	791	297	144	239	673	2616	525	277	390	247	398	625	7524
8	230	289	321	30	28	53	535	822	603	394	66	103	162	3636
9	358	176	419	202	167	440	605	495	860	494	275	163	92	4746
10	349	164	195	93	45	259	350	361	465	116	286	522	124	3329
11	325	78	87	90	62	247	211	64	263	204	107	276	191	2205
12	288	141	68	103	85	376	376	106	156	508	286	128	190	2811
13	211	117	82	28	47	202	687	173	125	120	219	166	399	2576
SUM	5553	4044	3107	1902	2203	4399	7977	3556	4516	3377	2439	2945	2405	48423

Table H.9: 2012 TEMPRO 5.4 Trip Totals, PM Peak

PM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	1772	174	481	148	179	316	556	462	460	721	604	759	476	7108
2	426	873	525	185	230	325	1400	300	117	228	205	209	250	5273
3	546	457	935	149	93	123	535	657	295	269	139	161	189	4548
4	436	19	67	127	175	269	191	29	453	224	246	275	177	2688
5	584	197	142	307	414	494	345	35	73	103	120	177	88	3079
6	163	140	103	489	511	1315	680	52	535	464	457	625	315	5849
7	183	706	452	161	174	828	2817	1037	503	586	330	504	1228	9509
8	160	244	690	22	19	43	812	943	838	604	197	121	286	4979
9	376	84	544	347	217	468	684	713	1177	745	428	271	217	6271
10	167	154	296	52	150	252	543	471	390	273	483	648	137	4016
11	69	117	150	70	151	236	413	139	228	369	197	509	276	2924
12	114	167	148	68	253	414	527	193	176	676	593	191	374	3894
13	103	155	151	45	85	111	941	275	114	264	384	235	462	3325
SUM	5099	3487	4684	2170	2651	5194	10444	5306	5359	5526	4383	4685	4475	63463

Table H.10: 2012 Difference in Trip Totals between TEMPRO 5.4 and Reference Case, AM Peak

AM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	-61	-10	-13	-2	-6	-1	0	2	-2	6	1	24	1	-61
2	-22	-17	-15	-16	-6	-15	1	16	0	-1	1	21	6	-47
3	-49	-4	-11	-3	-2	1	1	-8	13	-12	6	0	3	-65
4	-23	0	-3	4	-3	-5	-1	0	0	3	-2	2	2	-26
5	-17	3	-1	-13	-12	-10	6	1	-7	-2	-11	11	5	-47
6	11	-12	-1	-16	-16	-4	4	-1	-36	-1	22	7	4	-39
7	-7	-25	-16	-4	-13	-19	-70	10	-1	40	37	12	-8	-64
8	-36	-15	-4	-1	-2	-2	12	5	1	7	-3	3	-5	-40
9	-26	5	-8	-1	-9	-9	30	-4	-27	-13	12	22	2	-26
10	-44	-11	-24	-15	-7	4	13	-9	-44	-3	28	62	15	-35
11	-14	-9	-13	-9	-6	-13	-4	-21	-45	4	2	20	38	-70
12	31	-16	-7	-5	-10	-34	-20	-3	-29	25	29	5	7	-27
13	-18	-9	0	-3	-6	-14	-25	2	8	9	33	8	-12	-27
SUM	-275	-120	-116	-84	-98	-121	-53	-10	-169	62	155	197	58	-574

Table H.11: 2012 Difference in Trip Totals between TEMPRO 5.4 and Reference Case, IP

IP	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	-65	-10	-7	-4	-8	-12	-16	-8	-12	9	46	37	7	-43
2	-3	-15	3	-3	-4	-5	-18	1	1	2	7	13	4	-17
3	-7	-6	-3	-2	-4	-1	-8	-13	2	1	10	8	4	-19
4	-4	-3	-1	-3	-5	-5	-1	0	-6	4	2	10	1	-11
5	-5	-6	1	-6	-11	-7	0	-1	-2	2	5	11	2	-17
6	-13	-9	1	-5	-12	-35	-3	0	4	11	19	17	8	-17
7	-7	-15	2	2	-4	-5	-89	2	12	13	31	31	13	-14
8	-4	0	3	0	0	0	-12	-23	2	3	8	6	2	-15
9	-10	0	-1	-5	-3	-2	13	-12	-17	-5	10	19	6	-7
10	-13	-2	-3	-2	-1	-4	-3	-16	-21	-5	18	38	6	-8
11	-12	-1	-1	-2	-1	-9	-5	-1	-10	-2	-7	12	12	-27
12	-8	-3	0	1	-2	-13	-13	-1	3	17	13	-6	3	-9
13	7	-1	1	0	0	-5	-16	-9	1	3	21	8	-12	-2
SUM	-144	-71	-5	-29	-55	-103	-171	-81	-43	53	183	204	56	-206

Table H.12: 2012 Difference in Trip Totals between TEMPRO 5.4 and Reference Case, PM Peak

PM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	-65	-20	-35	-10	-17	-12	-38	-31	-34	-18	32	87	-7	-168
2	-3	0	12	-1	-3	-8	-28	15	-5	-4	-11	-7	6	-37
3	-8	11	0	0	0	-2	-6	-29	-1	-19	-11	11	6	-48
4	-9	1	-2	-3	4	-2	3	-1	-21	3	-13	9	-3	-34
5	-4	-4	0	-8	-5	-9	-9	-1	-3	-6	5	1	2	-41
6	-10	-5	-3	-3	-16	-30	-27	-3	17	17	-1	-2	1	-65
7	-2	-1	2	3	1	2	-61	-49	15	20	12	23	4	-31
8	7	9	7	1	0	1	-76	-23	29	6	3	13	1	-22
9	-1	4	2	-1	3	8	29	-24	-19	-32	-1	11	1	-20
10	2	0	-19	-1	1	-1	5	-32	-28	-16	25	48	1	-15
11	0	-2	-8	-4	-2	-10	-7	-2	-3	-16	-2	3	5	-48
12	-2	-5	-12	3	-2	-7	-21	-7	13	20	13	-6	4	-9
13	-6	-5	0	-1	-5	0	-19	-13	-2	11	37	12	-21	-12
SUM	-101	-17	-56	-25	-41	-70	-255	-200	-42	-34	88	203	0	-550

Table H.13: 2027 TEMPRO 5.4 Reference Case Trip Totals, AM Peak

AM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2603	482	1034	424	453	338	312	202	523	138	54	120	45	6728
2	582	1487	865	346	225	527	1244	392	86	233	133	187	139	6446
3	1082	637	1033	95	107	110	298	516	618	430	173	131	154	5384
4	631	20	60	262	277	354	159	5	287	94	86	74	50	2359
5	584	251	170	464	617	654	313	27	177	187	158	292	103	3997
6	472	407	58	1093	544	2028	827	13	703	298	263	458	141	7305
7	799	1472	482	266	414	1175	4370	864	434	826	428	633	1271	13434
8	633	735	1513	48	39	45	921	922	595	437	160	195	272	6515
9	1228	135	630	674	439	1001	905	330	1563	458	257	175	168	7963
10	826	300	361	352	157	707	765	581	925	227	402	471	145	6219
11	747	306	201	382	173	591	468	222	664	337	119	505	510	5225
12	961	304	222	433	258	963	682	134	446	909	644	249	300	6505
13	425	343	197	255	108	443	1228	299	285	219	405	353	598	5158
SUM	11573	6879	6826	5094	3811	8936	12492	4507	7306	4793	3282	3843	3896	83238

Table H.14: 2027 TEMPRO 5.4 Reference Case Trip Totals, IP

IP	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	3522	242	209	95	114	253	425	338	412	393	368	359	172	6902
2	116	880	608	151	370	392	1159	289	209	190	92	174	128	4758
3	208	541	790	172	231	86	455	472	502	238	94	78	94	3961
4	102	72	121	195	230	315	138	53	291	112	106	131	41	1907
5	112	640	171	314	493	297	215	56	166	77	73	103	53	2770
6	264	452	87	562	461	1298	760	19	553	321	297	453	217	5744
7	375	966	351	170	291	808	3204	613	315	444	258	431	724	8950
8	282	345	377	35	34	61	640	990	704	460	68	112	187	4295
9	444	213	505	249	204	523	690	599	1041	589	313	169	101	5640
10	435	199	237	114	55	310	417	447	574	142	310	555	137	3932
11	406	94	105	110	74	303	258	76	323	236	132	307	209	2633
12	356	170	82	124	104	460	460	123	181	564	318	156	219	3317
13	245	142	97	34	57	245	836	214	146	136	231	186	475	3044
SUM	6867	4956	3740	2325	2718	5351	9657	4289	5417	3902	2660	3214	2757	57853

Table H.15: 2027 TEMPRO 5.4 Reference Case Trip Totals, PM Peak

PM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2201	236	619	190	240	394	701	580	586	853	679	784	551	8614
2	515	1051	618	224	281	401	1677	331	142	265	251	248	279	6283
3	666	535	1127	178	112	148	626	803	349	330	175	173	209	5431
4	535	22	83	157	207	317	218	34	565	254	302	309	202	3205
5	700	243	171	378	505	599	414	42	90	126	135	203	97	3703
6	208	174	124	583	629	1568	815	63	597	506	531	722	354	6874
7	221	838	538	189	204	979	3348	1259	570	639	372	553	1402	11112
8	181	278	813	24	22	50	1020	1118	932	678	223	123	322	5784
9	451	95	642	412	254	533	751	849	1396	885	495	296	245	7304
10	195	181	373	62	176	293	613	580	483	331	526	685	153	4651
11	81	142	188	88	182	287	488	163	268	439	232	583	314	3455
12	137	201	184	76	299	487	629	226	185	739	671	222	415	4471
13	130	189	179	55	106	127	1118	331	133	287	405	255	554	3869
SUM	6221	4185	5659	2616	3217	6183	12418	6379	6296	6332	4997	5156	5097	74756

Table H.16: 2027 TEMPRO 5.4 Trip Totals, AM Peak

AM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2503	470	1032	422	445	335	306	210	525	150	60	163	50	6671
2	526	1483	858	318	215	495	1233	416	85	231	144	243	153	6400
3	972	647	1048	87	101	104	303	521	651	426	185	122	173	5340
4	557	18	53	293	285	341	150	5	294	105	105	81	52	2339
5	530	250	164	473	625	645	311	26	166	183	161	316	116	3966
6	478	380	51	1047	516	2030	832	12	682	294	325	475	144	7266
7	762	1408	448	241	374	1124	4321	865	418	911	523	686	1266	13347
8	593	688	1499	43	34	39	930	949	587	458	163	203	290	6476
9	1167	139	622	687	420	978	933	327	1518	454	300	216	185	7946
10	784	265	302	326	141	704	785	584	809	226	491	604	188	6209
11	734	273	168	372	162	580	454	189	617	352	133	559	609	5202
12	1011	271	192	400	244	917	648	127	428	957	726	274	320	6515
13	400	323	196	239	94	393	1207	306	280	242	494	388	585	5147
SUM	11017	6615	6633	4948	3656	8685	12413	4537	7060	4989	3810	4330	4131	82824

Table H.17: 2027 TEMPRO 5.4 Trip Totals, IP

IP	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	3410	224	195	87	101	230	391	316	387	405	505	448	185	6884
2	110	859	617	149	359	379	1129	282	209	197	115	205	139	4749
3	193	537	785	170	222	84	445	445	500	242	126	95	105	3949
4	93	67	117	191	223	307	137	50	281	121	119	154	44	1904
5	101	622	169	309	481	287	210	53	164	81	95	133	58	2763
6	238	429	85	554	440	1242	747	18	564	347	350	483	238	5735
7	356	933	349	172	277	791	3043	599	334	470	348	516	759	8947
8	270	344	382	35	33	59	623	953	701	474	89	123	200	4286
9	415	208	500	241	198	524	718	572	1002	583	346	219	112	5638
10	406	189	225	107	50	297	407	414	512	131	411	630	152	3931
11	389	90	101	107	72	288	250	73	303	237	145	341	241	2637
12	350	162	79	125	101	432	430	121	185	603	361	150	221	3320
13	246	138	98	32	55	232	800	199	145	142	296	211	451	3045
SUM	6577	4802	3702	2279	2612	5152	9330	4095	5287	4033	3306	3708	2905	57788

Table H.18: 2027 TEMPRO 5.4 Trip Totals, PM Peak

PM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2040	193	538	159	191	357	585	630	529	935	770	1008	578	8513
2	514	1081	636	216	279	394	1646	331	137	241	230	250	302	6257
3	662	556	1154	173	109	140	604	777	358	291	151	200	224	5399
4	524	22	79	163	218	304	215	31	550	258	282	341	194	3181
5	692	239	166	372	513	580	398	40	86	116	154	216	101	3673
6	193	170	115	575	606	1542	787	56	606	502	517	773	369	6811
7	213	843	534	186	202	987	3257	1182	589	661	391	637	1396	11078
8	197	287	834	25	21	48	923	1084	967	689	209	144	339	5767
9	453	96	652	418	256	543	780	810	1391	816	498	327	251	7291
10	187	167	331	62	168	283	618	517	433	306	600	820	162	4654
11	81	138	174	90	181	276	475	157	271	425	231	624	336	3459
12	132	192	160	80	296	489	605	213	207	760	700	225	430	4489
13	115	179	177	49	92	126	1078	312	127	306	497	301	511	3870
SUM	6003	4163	5550	2568	3132	6069	11971	6140	6251	6306	5230	5866	5193	74442

Table H.19: 2027 Difference in Trip Totals Between TEMPRO 5.4 and Reference Case, AM Peak

AM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	-100	-12	-2	-2	-8	-3	-6	8	2	12	6	43	5	-57
2	-56	-4	-7	-28	-10	-32	-11	24	-1	-2	11	56	14	-46
3	-110	10	15	-8	-6	-6	5	5	33	-4	12	-9	19	-44
4	-74	-2	-7	31	8	-13	-9	0	7	11	19	7	2	-20
5	-54	-1	-6	9	8	-9	-2	-1	-11	-4	3	24	13	-31
6	6	-27	-7	-46	-28	2	5	-1	-21	-4	62	17	3	-39
7	-37	-64	-34	-25	-40	-51	-49	1	-16	85	95	53	-5	-87
8	-40	-47	-14	-5	-5	-6	9	27	-8	21	3	8	18	-39
9	-61	4	-8	13	-19	-23	28	-3	-45	-4	43	41	17	-17
10	-42	-35	-59	-26	-16	-3	20	3	-116	-1	89	133	43	-10
11	-13	-33	-33	-10	-11	-11	-14	-33	-47	15	14	54	99	-23
12	50	-33	-30	-33	-14	-46	-34	-7	-18	48	82	25	20	10
13	-25	-20	-1	-16	-14	-50	-21	7	-5	23	89	35	-13	-11
SUM	-556	-264	-193	-146	-155	-251	-79	30	-246	196	528	487	235	-414

Table H.20: 2027 Difference in Trip Totals Between TEMPRO 5.4 and Reference Case, IP

IP	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	-112	-18	-14	-8	-13	-23	-34	-22	-25	12	137	89	13	-18
2	-6	-21	9	-2	-11	-13	-30	-7	0	7	23	31	11	-9
3	-15	-4	-5	-2	-9	-2	-10	-27	-2	4	32	17	11	-12
4	-9	-5	-4	-4	-7	-8	-1	-3	-10	9	13	23	3	-3
5	-11	-18	-2	-5	-12	-10	-5	-3	-2	4	22	30	5	-7
6	-26	-23	-2	-8	-21	-56	-13	-1	11	26	53	30	21	-9
7	-19	-33	-2	2	-14	-17	-161	-14	19	26	90	85	35	-3
8	-12	-1	5	0	-1	-2	-17	-37	-3	14	21	11	13	-9
9	-29	-5	-5	-8	-6	1	28	-27	-39	-6	33	50	11	-2
10	-29	-10	-12	-7	-5	-13	-10	-33	-62	-11	101	75	15	-1
11	-17	-4	-4	-3	-2	-15	-8	-3	-20	1	13	34	32	4
12	-6	-8	-3	1	-3	-28	-30	-2	4	39	43	-6	2	3
13	1	-4	1	-2	-2	-13	-36	-15	-1	6	65	25	-24	1
SUM	-290	-154	-38	-46	-106	-199	-327	-194	-130	131	646	494	148	-65

Table H.21: 2027 Difference in Trip Totals Between TEMPRO 5.4 and Reference Case, PM Peak

PM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	-161	-43	-81	-31	-49	-37	-116	50	-57	82	91	224	27	-101
2	-1	30	18	-8	-2	-7	-31	0	-5	-24	-21	2	23	-26
3	-4	21	27	-5	-3	-8	-22	-26	9	-39	-24	27	15	-32
4	-11	0	-4	6	11	-13	-3	-3	-15	4	-20	32	-8	-24
5	-8	-4	-5	-6	8	-19	-16	-2	-4	-10	19	13	4	-30
6	-15	-4	-9	-8	-23	-26	-28	-7	9	-4	-14	51	15	-63
7	-8	5	-4	-3	-2	8	-91	-77	19	22	19	84	-6	-34
8	16	9	21	1	-1	-2	-97	-34	35	11	-14	21	17	-17
9	2	1	10	6	2	10	29	-39	-5	-69	3	31	6	-13
10	-8	-14	-42	0	-8	-10	5	-63	-50	-25	74	135	9	3
11	0	-4	-14	2	-1	-11	-13	-6	3	-14	-1	41	22	4
12	-5	-9	-24	4	-3	2	-24	-13	22	21	29	3	15	18
13	-15	-10	-2	-6	-14	-1	-40	-19	-6	19	92	46	-43	1
SUM	-218	-22	-109	-48	-85	-114	-447	-239	-45	-26	233	710	96	-314

Table H.22: 2012 Scenario 1 Reference Case Trip Totals, AM Peak

AM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2051	369	819	328	364	276	251	160	434	124	48	117	42	5383
2	441	1119	660	256	174	404	974	312	70	182	107	157	108	4964
3	837	493	794	71	87	90	238	412	499	341	140	118	130	4250
4	459	14	49	188	206	268	122	4	220	71	65	58	38	1762
5	456	192	135	344	494	524	254	22	144	151	125	239	79	3159
6	382	298	44	846	435	1677	741	10	628	247	225	409	116	6058
7	685	1250	419	232	344	1070	3833	745	402	746	377	612	1110	11825
8	530	620	1296	39	34	40	791	789	526	375	135	179	234	5588
9	947	111	540	503	330	844	775	299	1345	392	220	152	148	6606
10	693	259	309	291	133	645	686	532	818	203	359	473	131	5532
11	627	264	172	326	155	522	405	214	593	311	110	474	452	4625
12	846	268	191	372	241	866	624	126	403	832	598	238	289	5894
13	353	294	168	213	96	405	1081	259	250	194	353	345	527	4538
SUM	9307	5551	5596	4009	3093	7631	10775	3884	6332	4169	2862	3571	3404	70184

Table H.23: 2012 Scenario 1 Reference Case Trip Totals, IP

IP	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2753	190	163	71	86	197	350	282	327	322	305	320	140	5506
2	90	653	465	110	281	294	948	234	165	156	76	151	104	3727
3	162	415	616	128	181	68	381	394	414	199	82	70	79	3189
4	76	52	91	139	170	244	110	43	223	89	91	116	33	1477
5	83	491	137	234	391	241	183	45	132	63	62	93	43	2198
6	205	336	68	439	355	1104	678	15	482	275	259	416	186	4818
7	312	797	296	137	251	685	2834	535	273	394	236	394	627	7771
8	233	277	316	28	27	51	556	864	624	406	65	98	153	3698
9	351	169	417	190	159	461	601	520	886	510	278	156	88	4786
10	354	163	197	90	45	270	373	397	498	124	272	497	123	3403
11	334	78	90	92	63	258	234	71	286	212	118	274	185	2295
12	318	146	72	108	93	415	417	107	168	505	283	159	206	2997
13	203	115	80	27	45	205	721	176	125	122	206	174	418	2617
SUM	5474	3882	3008	1793	2147	4493	8386	3683	4603	3377	2333	2918	2385	48482

Table H.24: 2012 Scenario 1 Reference Case Trip Totals, PM Peak

PM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	1754	173	478	141	176	309	587	480	477	730	561	688	471	7025
2	403	787	468	164	222	299	1385	276	116	227	214	218	239	5018
3	511	410	878	135	92	118	533	706	304	289	148	154	182	4460
4	433	16	60	109	152	285	173	28	422	206	247	258	167	2556
5	549	183	132	281	404	485	369	34	69	106	114	184	83	2993
6	181	135	102	466	518	1337	775	55	545	456	463	649	319	6001
7	197	687	450	157	176	811	3087	1116	505	600	319	525	1242	9872
8	157	223	667	20	20	41	919	982	860	581	213	114	268	5065
9	393	75	532	343	211	518	678	741	1198	765	436	267	207	6364
10	172	145	306	47	141	246	565	480	423	292	483	622	138	4060
11	74	119	152	70	150	250	439	146	247	406	207	551	277	3088
12	122	170	165	61	247	424	596	208	158	742	620	216	415	4144
13	123	148	148	42	84	108	975	279	121	259	353	241	492	3373
SUM	5069	3271	4538	2036	2593	5231	11081	5531	5445	5659	4378	4687	4500	64019

Table H.25: 2012 Scenario 1 Trip Totals, AM Peak

AM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	1971	358	803	325	357	270	250	162	429	132	49	150	43	5299
2	420	1096	646	242	169	390	973	323	69	183	108	177	114	4910
3	792	487	781	68	87	90	239	401	506	330	148	119	134	4182
4	441	13	46	189	202	262	121	3	220	74	63	58	40	1732
5	440	194	135	332	480	512	260	22	139	151	116	247	83	3111
6	385	288	42	821	416	1651	737	10	638	247	243	410	119	6007
7	661	1222	404	229	330	1031	3727	756	406	781	409	613	1096	11665
8	498	608	1288	38	33	38	801	791	521	384	132	184	228	5544
9	921	114	527	498	322	832	799	294	1312	384	230	174	153	6560
10	655	244	275	284	129	656	697	532	745	201	392	540	148	5498
11	610	255	164	315	147	501	398	207	574	308	111	487	484	4561
12	870	253	187	361	227	824	602	131	409	847	621	243	297	5872
13	335	287	168	212	91	392	1058	260	251	206	386	352	514	4512
SUM	8999	5419	5466	3914	2990	7449	10662	3892	6219	4228	3008	3754	3453	69453

Table H.26: 2012 Scenario 1 Trip Totals, IP

IP	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2687	179	156	67	79	185	335	274	315	331	348	357	146	5459
2	87	640	467	109	279	291	932	234	167	159	83	164	107	3719
3	156	409	614	127	178	67	373	381	417	201	92	78	83	3176
4	73	50	90	137	167	240	109	43	218	93	93	126	34	1473
5	79	486	139	230	381	235	181	45	130	66	67	104	45	2188
6	192	329	68	435	345	1069	673	14	484	286	279	430	194	4798
7	304	784	297	139	247	680	2743	535	283	408	269	427	640	7756
8	229	277	319	28	27	51	547	842	621	410	74	105	155	3685
9	342	169	416	186	156	460	615	508	865	505	287	176	93	4778
10	342	161	194	88	44	267	372	381	473	119	291	537	130	3399
11	323	77	89	90	62	250	230	70	274	211	111	287	197	2271
12	310	143	71	108	92	402	404	106	170	524	297	153	209	2989
13	210	114	81	26	45	200	705	167	126	125	227	182	405	2613
SUM	5334	3818	3001	1770	2102	4397	8219	3600	4543	3438	2518	3126	2438	48304

Table H.27: 2012 Scenario 1 Trip Totals, PM Peak

PM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	1681	155	446	132	161	297	550	447	437	703	592	772	465	6838
2	402	781	477	165	221	293	1362	279	111	223	206	214	245	4979
3	503	419	875	136	93	117	531	673	300	269	139	166	190	4411
4	424	16	59	106	154	280	177	27	401	208	234	265	168	2519
5	547	180	133	272	396	473	360	33	66	100	118	184	86	2948
6	167	129	100	462	497	1314	744	52	554	467	463	650	318	5917
7	196	685	450	159	177	815	3017	1064	517	621	334	549	1244	9828
8	163	232	674	21	21	42	847	955	878	586	217	129	269	5034
9	389	79	535	342	213	526	706	717	1173	733	434	278	210	6335
10	175	146	288	47	144	246	570	448	394	275	506	671	140	4050
11	74	119	145	66	149	240	430	145	243	388	204	553	283	3039
12	119	164	153	63	242	423	573	200	172	762	638	212	418	4139
13	117	144	147	42	81	109	956	264	120	269	390	254	471	3364
SUM	4957	3249	4482	2013	2549	5175	10823	5304	5366	5604	4475	4897	4507	63401

Table H.28: 2012 Difference in Trip Totals Between Reference Case and Scenario 1, AM Peak

AM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	-80	-11	-16	-3	-7	-6	-1	2	-5	8	1	33	1	-84
2	-21	-23	-14	-14	-5	-14	-1	11	-1	1	1	20	6	-54
3	-45	-6	-13	-3	0	0	1	-11	7	-11	8	1	4	-68
4	-18	-1	-3	1	-4	-6	-1	-1	0	3	-2	0	2	-30
5	-16	2	0	-12	-14	-12	6	0	-5	0	-9	8	4	-48
6	3	-10	-2	-25	-19	-26	-4	0	10	0	18	1	3	-51
7	-24	-28	-15	-3	-14	-39	-106	11	4	35	32	1	-14	-160
8	-32	-12	-8	-1	-1	-2	10	2	-5	9	-3	5	-6	-44
9	-26	3	-13	-5	-8	-12	24	-5	-33	-8	10	22	5	-46
10	-38	-15	-34	-7	-4	11	11	0	-73	-2	33	67	17	-34
11	-17	-9	-8	-11	-8	-21	-7	-7	-19	-3	1	13	32	-64
12	24	-15	-4	-11	-14	-42	-22	5	6	15	23	5	8	-22
13	-18	-7	0	-1	-5	-13	-23	1	1	12	33	7	-13	-26
SUM	-308	-132	-130	-95	-103	-182	-113	8	-113	59	146	183	49	-731

Table H.29: 2012 Difference in Trip Totals Between Reference Case and Scenario 1, IP

IP	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	-66	-11	-7	-4	-7	-12	-15	-8	-12	9	43	37	6	-47
2	-3	-13	2	-1	-2	-3	-16	0	2	3	7	13	3	-8
3	-6	-6	-2	-1	-3	-1	-8	-13	3	2	10	8	4	-13
4	-3	-2	-1	-2	-3	-4	-1	0	-5	4	2	10	1	-4
5	-4	-5	2	-4	-10	-6	-2	0	-2	3	5	11	2	-10
6	-13	-7	0	-4	-10	-35	-5	-1	2	11	20	14	8	-20
7	-8	-13	1	2	-4	-5	-91	0	10	14	33	33	13	-15
8	-4	0	3	0	0	0	-9	-22	-3	4	9	7	2	-13
9	-9	0	-1	-4	-3	-1	14	-12	-21	-5	9	20	5	-8
10	-12	-2	-3	-2	-1	-3	-1	-16	-25	-5	19	40	7	-4
11	-11	-1	-1	-2	-1	-8	-4	-1	-12	-1	-7	13	12	-24
12	-8	-3	-1	0	-1	-13	-13	-1	2	19	14	-6	3	-8
13	7	-1	1	-1	0	-5	-16	-9	1	3	21	8	-13	-4
SUM	-140	-64	-7	-23	-45	-96	-167	-83	-60	61	185	208	53	-178

Table H.30: 2012 Difference in Trip Totals Between Reference Case and Scenario 1, PM Peak

PM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	-73	-18	-32	-9	-15	-12	-37	-33	-40	-27	31	84	-6	-187
2	-1	-6	9	1	-1	-6	-23	3	-5	-4	-8	-4	6	-39
3	-8	9	-3	1	1	-1	-2	-33	-4	-20	-9	12	8	-49
4	-9	0	-1	-3	2	-5	4	-1	-21	2	-13	7	1	-37
5	-2	-3	1	-9	-8	-12	-9	-1	-3	-6	4	0	3	-45
6	-14	-6	-2	-4	-21	-23	-31	-3	9	11	0	1	-1	-84
7	-1	-2	0	2	1	4	-70	-52	12	21	15	24	2	-44
8	6	9	7	1	1	1	-72	-27	18	5	4	15	1	-31
9	-4	4	3	-1	2	8	28	-24	-25	-32	-2	11	3	-29
10	3	1	-18	0	3	0	5	-32	-29	-17	23	49	2	-10
11	0	0	-7	-4	-1	-10	-9	-1	-4	-18	-3	2	6	-49
12	-3	-6	-12	2	-5	-1	-23	-8	14	20	18	-4	3	-5
13	-6	-4	-1	0	-3	1	-19	-15	-1	10	37	13	-21	-9
SUM	-112	-22	-56	-23	-44	-56	-258	-227	-79	-55	97	210	7	-618

Table H.31: 2027 Reference Case Scenario 1 Trip Totals, AM Peak

AM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2351	396	898	346	398	339	297	188	525	148	69	164	51	6170
2	465	1109	662	259	178	448	1051	334	76	191	140	189	111	5213
3	899	513	833	71	92	106	264	465	556	382	174	174	137	4666
4	478	14	48	182	201	304	131	4	234	74	88	63	39	1860
5	484	191	137	333	502	603	277	23	163	156	151	275	80	3375
6	456	303	48	912	457	2084	984	14	805	276	296	539	122	7296
7	798	1384	472	264	384	1349	4620	901	506	895	516	869	1309	14267
8	630	706	1466	44	40	52	963	984	652	458	182	227	276	6680
9	1043	119	598	512	339	1090	882	363	1546	450	280	181	176	7579
10	743	286	342	308	141	834	781	617	941	236	483	641	150	6503
11	815	324	232	395	203	706	554	286	770	420	147	704	586	6142
12	1104	348	238	471	345	1204	894	189	520	1066	901	371	455	8106
13	381	316	181	223	107	559	1239	305	283	225	447	511	609	5386
SUM	10647	6009	6155	4320	3387	9678	12937	4673	7577	4977	3874	4908	4101	83243

Table H.32: 2027 Reference Case Scenario 1 Trip Totals, IP

IP	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2817	178	160	70	83	216	430	297	345	408	361	414	142	5921
2	82	567	407	88	249	261	1200	227	153	163	91	187	104	3779
3	153	373	555	111	168	68	559	404	412	253	100	92	82	3330
4	69	45	80	114	148	254	159	43	214	86	106	149	33	1500
5	78	444	126	191	355	258	316	47	123	87	73	117	43	2258
6	220	316	66	457	360	1258	884	17	642	343	353	579	216	5711
7	344	899	360	144	298	734	4002	687	371	1175	343	580	752	10689
8	243	266	327	27	28	54	858	934	692	545	88	118	176	4356
9	363	168	427	185	157	611	797	580	1034	683	390	210	98	5703
10	390	186	236	95	47	345	550	516	737	155	331	593	147	4328
11	382	92	110	110	79	363	364	94	407	251	149	382	228	3011
12	403	174	92	138	122	572	678	131	232	598	387	290	273	4090
13	205	120	87	26	49	224	962	203	156	170	265	240	470	3177
SUM	5749	3828	3033	1756	2143	5218	11759	4180	5518	4917	3037	3951	2764	57853

Table H.33: 2027 Reference Case Scenario 1 Trip Totals, PM Peak

PM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2023	168	477	135	167	336	651	528	509	757	686	885	491	7813
2	410	756	461	153	219	287	1483	299	120	242	251	307	261	5249
3	513	406	880	130	94	126	573	806	338	316	193	188	193	4756
4	441	14	56	96	137	366	165	30	409	204	272	301	160	2651
5	589	178	126	266	398	533	404	37	136	110	141	250	85	3253
6	237	138	114	520	608	1610	1043	70	719	554	600	875	394	7482
7	233	739	507	170	189	887	3782	1356	574	678	433	747	1424	11719
8	180	232	752	19	22	46	1111	1174	1010	668	275	159	352	6000
9	511	80	567	333	216	779	779	873	1347	865	531	330	242	7453
10	196	145	325	47	142	275	665	570	485	329	625	800	162	4766
11	97	159	185	91	174	332	578	198	313	510	277	804	345	4063
12	157	200	221	64	276	524	792	264	175	985	907	404	581	5550
13	143	163	156	41	85	120	1141	329	139	298	464	360	566	4005
SUM	5730	3378	4827	2065	2727	6221	13167	6534	6274	6516	5655	6410	5256	74760

Table H.34: 2027 Scenario 1 Trip Totals, AM Peak

AM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2206	389	896	348	393	326	298	194	524	164	78	224	56	6096
2	423	1090	654	242	170	412	1061	347	74	194	149	234	123	5173
3	815	511	837	66	87	101	280	465	580	383	192	152	152	4621
4	429	13	44	196	205	288	124	4	238	82	106	68	43	1840
5	448	196	136	335	505	582	286	24	154	158	159	274	92	3349
6	452	293	44	883	432	2069	983	13	781	272	352	552	128	7254
7	705	1315	440	242	351	1195	4495	892	477	960	593	862	1280	13807
8	590	667	1434	40	35	45	996	997	637	484	180	236	296	6637
9	993	123	582	518	331	1044	891	352	1505	450	314	215	193	7511
10	686	260	290	288	129	788	804	632	834	236	582	762	199	6490
11	756	293	199	378	188	648	519	251	705	475	166	784	706	6068
12	1221	300	206	406	292	1093	860	175	473	1103	989	490	483	8091
13	347	298	182	217	96	486	1237	315	285	256	536	517	602	5374
SUM	10071	5748	5944	4159	3214	9077	12834	4661	7267	5217	4396	5370	4353	82311

Table H.35: 2027 Scenario 1 Trip Totals, IP

IP	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2708	165	149	64	74	198	388	275	327	424	479	498	150	5899
2	78	560	419	89	249	259	1125	225	160	170	114	216	110	3774
3	142	371	555	112	167	68	514	383	418	258	131	111	91	3321
4	63	42	78	110	143	247	148	41	207	93	119	168	34	1493
5	71	436	126	187	344	250	299	45	122	92	93	145	46	2256
6	196	301	64	449	342	1203	861	16	654	368	416	597	233	5700
7	326	868	359	146	289	731	3810	664	395	1163	446	688	791	10676
8	236	266	331	27	27	53	796	914	698	567	112	133	188	4348
9	341	165	422	179	151	620	802	553	998	674	419	265	108	5697
10	364	179	225	89	44	334	530	483	664	144	435	675	165	4331
11	366	90	108	106	76	346	348	90	383	254	164	419	264	3014
12	400	166	90	137	119	541	633	128	237	644	434	286	279	4094
13	204	114	88	25	48	214	916	189	155	172	331	269	455	3180
SUM	5495	3723	3014	1720	2073	5064	11170	4006	5418	5023	3693	4470	2914	57783

Table H.36: 2027 Scenario 1 Trip Totals, PM Peak

PM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	1885	142	423	115	135	299	542	591	458	838	720	1051	518	7717
2	414	773	481	159	226	292	1438	301	117	223	229	289	279	5221
3	516	424	904	133	96	125	554	775	342	274	158	210	212	4723
4	442	15	56	100	147	338	170	29	410	206	242	308	163	2626
5	593	178	128	269	405	514	387	36	135	102	147	241	90	3225
6	218	132	108	518	574	1625	983	64	719	545	557	946	403	7392
7	232	745	511	178	197	920	3657	1274	604	698	429	820	1417	11682
8	193	242	774	21	23	46	1006	1147	1040	684	251	180	370	5977
9	513	85	587	343	223	774	791	845	1362	800	510	346	252	7431
10	192	140	292	48	143	262	663	511	441	303	675	926	174	4770
11	100	162	184	95	178	323	535	198	321	501	272	827	367	4063
12	151	191	202	67	265	573	763	247	198	981	903	440	588	5569
13	130	155	157	40	77	122	1100	309	132	314	542	396	529	4003
SUM	5579	3384	4807	2086	2689	6213	12589	6327	6279	6469	5635	6980	5362	74399

Table H.37: 2027 Difference in Trip Totals Between Reference Case and Scenario 1, AM Peak

AM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	-145	-7	-2	2	-5	-13	1	6	-1	16	9	60	5	-74
2	-42	-19	-8	-17	-8	-36	10	13	-2	3	9	45	12	-40
3	-84	-2	4	-5	-5	-5	16	0	24	1	18	-22	15	-45
4	-49	-1	-4	14	4	-16	-7	0	4	8	18	5	4	-20
5	-36	5	-1	2	3	-21	9	1	-9	2	8	-1	12	-26
6	-4	-10	-4	-29	-25	-15	-1	-1	-24	-4	56	13	6	-42
7	-93	-69	-32	-22	-33	-154	-125	-9	-29	65	77	-7	-29	-460
8	-40	-39	-32	-4	-5	-7	33	13	-15	26	-2	9	20	-43
9	-50	4	-16	6	-8	-46	9	-11	-41	0	34	34	17	-68
10	-57	-26	-52	-20	-12	-46	23	15	-107	0	99	121	49	-13
11	-59	-31	-33	-17	-15	-58	-35	-35	-65	55	19	80	120	-74
12	117	-48	-32	-65	-53	-111	-34	-14	-47	37	88	119	28	-15
13	-34	-18	1	-6	-11	-73	-2	10	2	31	89	6	-7	-12
SUM	-576	-261	-211	-161	-173	-601	-103	-12	-310	240	522	462	252	-932

Table H.38: 2027 Difference in Trip Totals Between Reference Case and Scenario 1, IP

IP	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	-45	-25	-14	-7	-12	1	38	-7	0	102	174	178	10	393
2	-12	-93	-46	-21	-32	-35	177	-9	-5	14	38	65	6	47
3	-20	-44	-61	-16	-14	0	133	-11	4	59	49	41	12	132
4	-13	-10	-13	-29	-27	3	38	-2	-16	4	28	52	1	16
5	-12	-55	-11	-47	-47	9	116	0	-10	29	31	52	3	58
6	-9	-35	-4	10	-13	99	183	1	172	93	157	181	47	882
7	14	71	63	9	38	46	976	129	122	769	210	294	164	2905
8	3	-11	15	-1	0	2	240	50	74	161	47	35	35	650
9	-10	-4	5	-11	-8	159	201	33	112	164	141	109	20	911
10	10	16	28	-1	-1	64	157	86	166	20	163	178	42	928
11	32	12	18	14	13	88	114	19	97	42	46	145	79	719
12	82	20	18	29	26	126	216	21	69	139	151	127	73	1097
13	1	-1	8	-2	3	9	195	13	30	50	125	95	37	563
SUM	21	-159	6	-73	-74	571	2784	323	815	1646	1360	1552	529	9301

Table H.39: 2027 Difference in Trip Totals Between Reference Case and Scenario 1, PM Peak

PM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	-138	-26	-54	-20	-32	-37	-109	63	-51	81	34	166	27	-96
2	4	17	20	6	7	5	-45	2	-3	-19	-22	-18	18	-28
3	3	18	24	3	2	-1	-19	-31	4	-42	-35	22	19	-33
4	1	1	0	4	10	-28	5	-1	1	2	-30	7	3	-25
5	4	0	2	3	7	-19	-17	-1	-1	-8	6	-9	5	-28
6	-19	-6	-6	-2	-34	15	-60	-6	0	-9	-43	71	9	-90
7	-1	6	4	8	8	33	-125	-82	30	20	-4	73	-7	-37
8	13	10	22	2	1	0	-105	-27	30	16	-24	21	18	-23
9	2	5	20	10	7	-5	12	-28	15	-65	-21	16	10	-22
10	-4	-5	-33	1	1	-13	-2	-59	-44	-26	50	126	12	4
11	3	3	-1	4	4	-9	-43	0	8	-9	-5	23	22	0
12	-6	-9	-19	3	-11	49	-29	-17	23	-4	-4	36	7	19
13	-13	-8	1	-1	-8	2	-41	-20	-7	16	78	36	-37	-2
SUM	-151	6	-20	21	-38	-8	-578	-207	5	-47	-20	570	106	-361

Table H.40: 2012 Reference Case Scenario 2 Trip Totals, AM Peak

AM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2040	363	795	327	364	276	249	171	430	126	48	118	42	5349
2	433	1088	631	255	171	401	949	379	68	183	107	158	109	4932
3	817	484	763	70	86	89	230	470	488	344	136	118	127	4222
4	454	14	48	187	204	266	121	4	219	74	65	58	38	1752
5	452	186	132	341	491	520	250	22	143	159	125	240	76	3137
6	376	294	43	837	430	1654	728	10	659	244	220	408	114	6017
7	666	1171	391	227	335	1053	3686	821	406	743	369	605	1083	11556
8	568	735	1398	41	35	40	807	851	614	380	145	181	255	6050
9	929	105	519	499	327	851	770	353	1344	397	220	158	151	6623
10	684	256	304	285	130	631	669	625	875	205	348	444	127	5583
11	609	250	161	319	154	507	394	261	619	304	109	469	441	4597
12	832	259	183	366	237	855	606	135	441	826	593	237	287	5857
13	346	285	166	211	95	401	1059	273	273	192	346	340	521	4508
SUM	9206	5490	5534	3965	3059	7544	10518	4375	6579	4177	2831	3534	3371	70183

Table H.41: 2012 Reference Case Scenario 2 Trip Totals, IP

IP	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2742	188	157	70	85	196	336	307	322	322	304	320	138	5487
2	90	652	460	110	282	293	915	261	164	157	76	151	103	3714
3	154	411	603	127	181	68	364	437	407	199	80	69	77	3177
4	76	52	90	139	171	244	108	45	222	88	90	116	32	1473
5	83	489	136	234	392	240	178	45	131	65	61	93	43	2190
6	204	335	67	437	356	1097	669	16	489	272	258	416	185	4801
7	303	763	282	134	244	677	2703	568	270	377	229	386	608	7544
8	260	317	360	31	28	53	592	986	667	450	73	103	175	4095
9	348	166	407	189	159	469	596	569	901	528	289	159	88	4868
10	349	162	197	89	44	265	358	447	512	123	264	488	123	3421
11	332	77	87	91	63	256	226	81	298	205	115	270	181	2282
12	317	145	71	107	94	415	406	113	170	495	283	160	204	2980
13	199	115	80	26	45	204	692	201	132	123	200	169	413	2599
SUM	5457	3872	2997	1784	2144	4477	8143	4076	4685	3404	2322	2900	2370	48631

Table H.42: 2012 Reference Case Scenario 2 Trip Totals, PM Peak

PM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	1750	173	464	141	176	309	570	487	469	723	552	689	467	6970
2	404	792	469	164	222	299	1339	286	114	228	209	217	236	4979
3	503	408	849	134	92	117	516	757	294	282	146	152	176	4426
4	434	16	60	109	152	281	170	30	418	199	245	257	165	2536
5	548	184	131	280	403	482	361	33	68	101	113	183	82	2969
6	181	135	101	464	517	1328	767	55	546	444	458	648	315	5959
7	191	667	431	155	174	802	2953	1099	488	563	312	511	1212	9558
8	166	239	745	21	20	43	903	1043	940	725	243	123	293	5504
9	394	77	523	343	211	541	691	785	1202	802	460	286	218	6533
10	174	144	303	48	140	247	553	532	420	283	471	616	142	4073
11	74	120	150	70	151	249	425	143	257	392	206	549	275	3061
12	123	171	164	61	247	424	585	209	163	720	616	215	411	4109
13	121	147	146	42	85	107	951	295	119	256	352	235	493	3349
SUM	5063	3273	4536	2032	2590	5229	10784	5754	5498	5718	4383	4681	4485	64026

Table H.43: 2012 Scenario 2 Trip Totals, AM Peak

AM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	1959	353	782	325	357	270	249	173	425	134	49	151	42	5269
2	414	1065	617	242	167	388	949	386	67	184	109	178	114	4880
3	775	478	748	67	86	90	231	458	494	332	145	119	130	4153
4	437	13	46	187	201	261	120	4	218	76	63	59	40	1725
5	436	188	131	330	478	508	256	22	137	159	116	249	80	3090
6	379	285	41	811	412	1627	725	10	669	244	239	410	118	5970
7	648	1153	379	228	327	1018	3572	824	411	773	401	606	1065	11405
8	536	719	1385	39	34	38	820	848	607	385	143	185	251	5990
9	902	110	505	493	320	841	797	348	1307	388	230	180	155	6576
10	644	243	272	277	126	643	682	617	802	203	380	512	143	5544
11	592	243	155	309	146	487	390	255	594	297	110	483	473	4534
12	854	247	180	356	223	814	586	139	446	840	614	242	294	5835
13	328	279	165	211	91	394	1035	272	272	203	380	348	506	4484
SUM	8904	5376	5406	3875	2968	7379	10412	4356	6449	4218	2979	3722	3411	69455

Table H.44: 2012 Scenario 2 Trip Totals, IP

IP	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2677	178	150	67	79	185	322	298	311	329	347	357	144	5444
2	86	637	461	108	278	289	898	261	166	159	83	164	107	3697
3	148	404	600	126	178	66	356	421	409	198	90	77	81	3154
4	72	50	89	137	166	239	107	44	216	91	92	126	33	1462
5	78	482	138	229	381	234	176	44	129	66	66	104	45	2172
6	192	327	67	433	345	1062	664	15	490	283	278	430	194	4780
7	295	750	282	136	241	672	2614	566	280	390	261	418	621	7526
8	256	315	363	31	28	53	581	963	667	455	82	110	178	4082
9	338	165	404	185	156	468	609	557	881	522	299	180	94	4858
10	336	159	193	87	43	262	356	431	488	118	283	528	130	3414
11	321	76	87	89	61	248	222	81	285	204	109	283	193	2259
12	310	142	71	108	92	401	394	112	172	514	297	154	208	2975
13	206	114	81	26	45	200	677	189	133	127	222	178	399	2597
SUM	5315	3799	2986	1762	2093	4379	7976	3982	4627	3456	2509	3109	2427	48420

Table H.45: 2012 Scenario 2 Trip Totals, PM Peak

PM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	1675	155	433	131	161	297	536	454	431	696	583	771	462	6785
2	402	784	478	165	221	293	1319	290	109	224	202	212	244	4943
3	496	416	848	135	92	116	515	720	290	260	136	164	185	4373
4	424	16	59	105	154	277	175	29	396	202	231	263	166	2497
5	545	180	132	271	394	470	353	33	65	95	118	183	85	2924
6	167	129	99	460	496	1300	736	52	557	459	457	647	314	5873
7	190	664	433	158	176	804	2880	1052	502	583	328	534	1214	9518
8	171	248	750	22	21	44	837	1019	955	726	246	138	295	5472
9	390	80	528	341	212	548	720	763	1177	771	456	298	221	6505
10	177	146	284	47	142	246	561	499	392	268	493	663	144	4062
11	74	119	145	66	149	238	416	142	253	376	202	549	282	3011
12	120	165	153	63	242	423	561	202	177	743	632	210	413	4104
13	115	143	147	42	81	108	932	280	118	266	388	248	471	3339
SUM	4946	3245	4489	2006	2541	5164	10541	5535	5422	5669	4472	4880	4496	63406

Table H.46: 2012 Difference in Trip Totals Between Reference Case and Scenario 2, AM Peak

AM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	-81	-10	-13	-2	-7	-6	0	2	-5	8	1	33	0	-80
2	-19	-23	-14	-13	-4	-13	0	7	-1	1	2	20	5	-52
3	-42	-6	-15	-3	0	1	1	-12	6	-12	9	1	3	-69
4	-17	-1	-2	0	-3	-5	-1	0	-1	2	-2	1	2	-27
5	-16	2	-1	-11	-13	-12	6	0	-6	0	-9	9	4	-47
6	3	-9	-2	-26	-18	-27	-3	0	10	0	19	2	4	-47
7	-18	-18	-12	1	-8	-35	-114	3	5	30	32	1	-18	-151
8	-32	-16	-13	-2	-1	-2	13	-3	-7	5	-2	4	-4	-60
9	-27	5	-14	-6	-7	-10	27	-5	-37	-9	10	22	4	-47
10	-40	-13	-32	-8	-4	12	13	-8	-73	-2	32	68	16	-39
11	-17	-7	-6	-10	-8	-20	-4	-6	-25	-7	1	14	32	-63
12	22	-12	-3	-10	-14	-41	-20	4	5	14	21	5	7	-22
13	-18	-6	-1	0	-4	-7	-24	-1	-1	11	34	8	-15	-24
SUM	-302	-114	-128	-90	-91	-165	-106	-19	-130	41	148	188	40	-728

Table H.47: 2012 Difference in Trip Totals Between Reference Case and Scenario 2, IP

IP	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	-65	-10	-7	-3	-6	-11	-14	-9	-11	7	43	37	6	-43
2	-4	-15	1	-2	-4	-4	-17	0	2	2	7	13	4	-17
3	-6	-7	-3	-1	-3	-2	-8	-16	2	-1	10	8	4	-23
4	-4	-2	-1	-2	-5	-5	-1	-1	-6	3	2	10	1	-11
5	-5	-7	2	-5	-11	-6	-2	-1	-2	1	5	11	2	-18
6	-12	-8	0	-4	-11	-35	-5	-1	1	11	20	14	9	-21
7	-8	-13	0	2	-3	-5	-89	-2	10	13	32	32	13	-18
8	-4	-2	3	0	0	0	-11	-23	0	5	9	7	3	-13
9	-10	-1	-3	-4	-3	-1	13	-12	-20	-6	10	21	6	-10
10	-13	-3	-4	-2	-1	-3	-2	-16	-24	-5	19	40	7	-7
11	-11	-1	0	-2	-2	-8	-4	0	-13	-1	-6	13	12	-23
12	-7	-3	0	1	-2	-14	-12	-1	2	19	14	-6	4	-5
13	7	-1	1	0	0	-4	-15	-12	1	4	22	9	-14	-2
SUM	-142	-73	-11	-22	-51	-98	-167	-94	-58	52	187	209	57	-211

Table H.48: 2012 Difference in Trip Totals Between Reference Case and Scenario 2, PM Peak

PM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	-75	-18	-31	-10	-15	-12	-34	-33	-38	-27	31	82	-5	-185
2	-2	-8	9	1	-1	-6	-20	4	-5	-4	-7	-5	8	-36
3	-7	8	-1	1	0	-1	-1	-37	-4	-22	-10	12	9	-53
4	-10	0	-1	-4	2	-4	5	-1	-22	3	-14	6	1	-39
5	-3	-4	1	-9	-9	-12	-8	0	-3	-6	5	0	3	-45
6	-14	-6	-2	-4	-21	-28	-31	-3	11	15	-1	-1	-1	-86
7	-1	-3	2	3	2	2	-73	-47	14	20	16	23	2	-40
8	5	9	5	1	1	1	-66	-24	15	1	3	15	2	-32
9	-4	3	5	-2	1	7	29	-22	-25	-31	-4	12	3	-28
10	3	2	-19	-1	2	-1	8	-33	-28	-15	22	47	2	-11
11	0	-1	-5	-4	-2	-11	-9	-1	-4	-16	-4	0	7	-50
12	-3	-6	-11	2	-5	-1	-24	-7	14	23	16	-5	2	-5
13	-6	-4	1	0	-4	1	-19	-15	-1	10	36	13	-22	-10
SUM	-117	-28	-47	-26	-49	-65	-243	-219	-76	-49	89	199	11	-620

Table H.49: 2027 Reference Case Scenario 2 Trip Totals, AM Peak

AM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2304	375	827	341	388	336	334	195	514	153	71	166	51	6055
2	426	1012	598	248	167	435	1112	407	70	209	139	187	111	5121
3	860	484	752	69	90	105	256	525	545	429	165	170	131	4581
4	460	13	44	179	195	298	128	4	230	83	87	62	43	1826
5	470	177	126	326	489	590	295	22	158	170	148	271	74	3316
6	430	287	43	876	440	2002	930	13	946	269	284	528	115	7163
7	755	1246	421	252	365	1303	4230	969	544	935	494	819	1236	13569
8	693	878	1563	45	40	51	930	1042	809	498	196	226	310	7281
9	983	106	526	497	325	1090	866	424	1598	522	276	195	230	7638
10	793	344	389	324	158	818	821	820	1179	276	466	600	158	7146
11	773	301	198	379	200	675	531	353	803	414	145	696	570	6038
12	1034	317	206	445	326	1153	857	200	624	1056	870	363	513	7964
13	371	302	292	216	109	553	1296	316	341	234	435	495	589	5549
SUM	10352	5842	5985	4197	3292	9409	12586	5290	8361	5248	3776	4778	4131	83247

Table H.50: 2027 Reference Case Scenario 2 Trip Totals, IP

IP	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2999	186	155	70	83	220	352	334	337	397	368	432	144	6077
2	89	632	459	103	281	287	969	292	174	196	98	198	112	3890
3	154	406	606	122	188	74	399	488	444	259	102	98	84	3424
4	71	48	84	127	163	265	112	45	224	94	114	161	33	1541
5	80	484	140	224	403	274	200	48	136	82	78	130	46	2325
6	227	325	68	473	372	1341	812	18	666	342	370	620	227	5861
7	321	822	311	142	284	771	3112	659	323	489	336	543	773	8886
8	289	351	403	32	31	59	692	1164	806	654	113	125	245	4964
9	369	172	440	193	165	656	689	677	1089	719	413	222	115	5919
10	402	199	258	99	49	347	473	663	686	155	337	608	167	4443
11	400	94	110	112	81	375	318	124	410	261	153	395	230	3063
12	427	181	95	146	132	609	575	145	230	614	400	312	298	4164
13	221	153	118	27	49	234	856	264	181	175	256	243	520	3297
SUM	6049	4053	3247	1870	2281	5512	9559	4921	5706	4437	3138	4087	2994	57854

Table H.51: 2027 Reference Case Scenario 2 Trip Totals, PM Peak

PM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	1998	163	444	132	162	326	592	520	481	817	649	876	506	7666
2	410	759	458	153	218	284	1377	308	114	285	243	302	236	5147
3	495	396	820	130	93	122	533	879	314	340	185	182	177	4666
4	437	14	54	96	138	347	157	32	401	202	269	300	152	2599
5	584	177	123	266	396	516	385	32	133	110	141	248	80	3191
6	235	137	111	513	603	1563	1010	66	728	546	587	867	379	7345
7	208	706	486	164	190	876	3406	1240	536	669	406	692	1481	11060
8	195	250	844	21	22	47	950	1248	1113	965	319	179	325	6478
9	519	80	554	335	217	867	822	935	1377	1031	595	390	254	7976
10	219	161	349	46	136	276	667	750	547	346	604	781	230	5112
11	98	162	177	93	175	329	527	184	340	478	275	802	345	3985
12	159	201	223	64	276	517	744	259	208	943	899	400	554	5447
13	137	162	153	41	84	115	1087	348	135	316	462	352	700	4092
SUM	5694	3368	4796	2054	2710	6185	12257	6801	6427	7048	5634	6371	5419	74764

Table H.52: 2027 Scenario 2 Trip Totals, AM Peak

AM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2160	372	828	346	388	325	320	199	514	170	81	226	55	5984
2	394	1003	592	236	163	406	1090	413	69	209	150	234	123	5082
3	779	487	755	66	88	103	260	520	570	422	190	155	143	4538
4	416	12	41	190	198	283	121	4	233	89	104	67	47	1805
5	435	182	125	328	491	571	294	22	150	172	157	275	85	3287
6	431	278	39	854	419	1993	934	12	902	261	339	540	120	7122
7	672	1203	392	237	340	1165	4095	935	509	975	569	817	1219	13128
8	671	830	1534	42	36	44	923	1044	791	532	200	232	356	7235
9	928	112	514	505	321	1049	882	408	1558	511	314	233	240	7575
10	756	305	321	290	142	775	841	833	1050	291	563	738	211	7116
11	722	279	175	368	187	630	500	311	729	460	162	771	679	5973
12	1157	280	183	393	284	1057	818	180	554	1093	960	468	522	7949
13	336	287	287	206	99	490	1304	319	318	266	525	517	585	5539
SUM	9857	5630	5786	4061	3156	8891	12382	5200	7947	5451	4314	5273	4385	82333

Table H.53: 2027 Scenario 2 Trip Totals, IP

IP	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2879	174	144	64	74	199	330	313	317	406	485	515	158	6058
2	82	611	459	102	276	281	943	283	178	199	119	225	122	3880
3	142	399	600	122	184	72	392	456	447	255	131	116	95	3411
4	65	45	82	121	156	255	112	43	215	101	126	179	37	1537
5	73	474	139	217	385	260	198	46	134	85	97	156	51	2315
6	200	312	67	464	353	1274	797	17	683	366	433	633	250	5849
7	304	789	308	145	274	759	2949	633	345	513	430	620	806	8875
8	279	345	403	33	30	59	675	1130	797	672	136	138	257	4954
9	345	168	433	186	159	663	714	637	1051	703	440	282	128	5909
10	375	190	243	93	45	333	464	625	620	143	433	690	186	4440
11	382	92	107	109	77	355	313	121	386	263	166	428	267	3066
12	422	173	93	145	126	570	544	142	237	660	445	307	305	4169
13	227	149	119	26	49	225	822	244	183	182	322	268	482	3298
SUM	5775	3921	3197	1827	2188	5305	9253	4690	5593	4548	3763	4557	3144	57761

Table H.54: 2027 Scenario 2 Trip Totals, PM Peak

PM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	1854	137	390	112	130	292	501	585	428	874	687	1042	543	7575
2	407	767	473	152	221	288	1371	320	109	253	218	286	257	5122
3	495	411	836	129	94	121	534	847	318	285	153	210	199	4632
4	433	14	54	99	145	322	162	31	399	208	240	307	157	2571
5	587	177	127	264	401	498	371	33	130	100	147	241	87	3163
6	215	131	107	506	567	1569	951	62	735	542	548	936	389	7258
7	206	713	491	168	196	906	3286	1194	567	671	403	750	1475	11026
8	203	260	859	21	23	48	894	1237	1134	944	283	198	350	6454
9	524	84	577	344	223	858	834	913	1418	943	567	405	265	7955
10	214	152	314	47	137	265	671	684	510	325	655	903	235	5112
11	100	165	178	96	179	319	488	183	352	471	269	819	368	3987
12	151	192	207	66	262	562	711	247	235	947	895	431	557	5463
13	125	154	156	39	78	118	1055	329	129	327	538	390	655	4093
SUM	5514	3357	4769	2043	2656	6166	11829	6665	6464	6890	5603	6918	5537	74411

Table H.55: 2027 Difference in Trip Totals Between Reference Case and Scenario 2, AM Peak

AM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	-144	-3	1	5	0	-11	-14	4	0	17	10	60	4	-71
2	-32	-9	-6	-12	-4	-29	-22	6	-1	0	11	47	12	-39
3	-81	3	3	-3	-2	-2	4	-5	25	-7	25	-15	12	-43
4	-44	-1	-3	11	3	-15	-7	0	3	6	17	5	4	-21
5	-35	5	-1	2	2	-19	-1	0	-8	2	9	4	11	-29
6	1	-9	-4	-22	-21	-9	4	-1	-44	-8	55	12	5	-41
7	-83	-43	-29	-15	-25	-138	-135	-34	-35	40	75	-2	-17	-441
8	-22	-48	-29	-3	-4	-7	-7	2	-18	34	4	6	46	-46
9	-55	6	-12	8	-4	-41	16	-16	-40	-11	38	38	10	-63
10	-37	-39	-68	-34	-16	-43	20	13	-129	15	97	138	53	-30
11	-51	-22	-23	-11	-13	-45	-31	-42	-74	46	17	75	109	-65
12	123	-37	-23	-52	-42	-96	-39	-20	-70	37	90	105	9	-15
13	-35	-15	-5	-10	-10	-63	8	3	-23	32	90	22	-4	-10
SUM	-495	-212	-199	-136	-136	-518	-204	-90	-414	203	538	495	254	-914

Table H.56: 2027 Difference in Trip Totals Between Reference Case and Scenario 2, IP

IP	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	-120	-12	-11	-6	-9	-21	-22	-21	-20	9	117	83	14	-19
2	-7	-21	0	-1	-5	-6	-26	-9	4	3	21	27	10	-10
3	-12	-7	-6	0	-4	-2	-7	-32	3	-4	29	18	11	-13
4	-6	-3	-2	-6	-7	-10	0	-2	-9	7	12	18	4	-4
5	-7	-10	-1	-7	-18	-14	-2	-2	-2	3	19	26	5	-10
6	-27	-13	-1	-9	-19	-67	-15	-1	17	24	63	13	23	-12
7	-17	-33	-3	3	-10	-12	-163	-26	22	24	94	77	33	-11
8	-10	-6	0	1	-1	0	-17	-34	-9	18	23	13	12	-10
9	-24	-4	-7	-7	-6	7	25	-40	-38	-16	27	60	13	-10
10	-27	-9	-15	-6	-4	-14	-9	-38	-66	-12	96	82	19	-3
11	-18	-2	-3	-3	-4	-20	-5	-3	-24	2	13	33	37	3
12	-5	-8	-2	-1	-6	-39	-31	-3	7	46	45	-5	7	5
13	6	-4	1	-1	0	-9	-34	-20	2	7	66	25	-38	1
SUM	-274	-132	-50	-43	-93	-207	-306	-231	-113	111	625	470	150	-93

Table H.57: 2027 Difference in Trip Totals Between Reference Case and Scenario 2, PM Peak

PM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	-144	-26	-54	-20	-32	-34	-91	65	-53	57	38	166	37	-91
2	-3	8	15	-1	3	4	-6	12	-5	-32	-25	-16	21	-25
3	0	15	16	-1	1	-1	1	-32	4	-55	-32	28	22	-34
4	-4	0	0	3	7	-25	5	-1	-2	6	-29	7	5	-28
5	3	0	4	-2	5	-18	-14	1	-3	-10	6	-7	7	-28
6	-20	-6	-4	-7	-36	6	-59	-4	7	-4	-39	69	10	-87
7	-2	7	5	4	6	30	-120	-46	31	2	-3	58	-6	-34
8	8	10	15	0	1	1	-56	-11	21	-21	-36	19	25	-24
9	5	4	23	9	6	-9	12	-22	41	-88	-28	15	11	-21
10	-5	-9	-35	1	1	-11	4	-66	-37	-21	51	122	5	0
11	2	3	1	3	4	-10	-39	-1	12	-7	-6	17	23	2
12	-8	-9	-16	2	-14	45	-33	-12	27	4	-4	31	3	16
13	-12	-8	3	-2	-6	3	-32	-19	-6	11	76	38	-45	1
SUM	-180	-11	-27	-11	-54	-19	-428	-136	37	-158	-31	547	118	-353

Appendix I. PCU Kilometres

Table I.1: 2006 Base Year PCU Kilometres – AM Peak

AM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2754	955	1640	586	672	1091	1386	656	1204	2570	714	4198	637	19063
2	1219	2223	1702	606	519	1679	3820	1177	359	3829	5627	7387	2391	32538
3	1669	1305	1490	233	288	513	1339	1203	1904	6185	4772	4098	2384	27383
4	805	66	153	238	379	1126	1366	24	525	1444	3034	2711	1143	13014
5	950	619	429	722	540	1522	1429	117	551	3623	5605	8114	2160	26381
6	1448	1060	247	3564	1018	4331	3924	90	6401	6041	7873	11057	2925	49979
7	3939	4206	2259	2134	1582	5171	13200	3587	4064	16656	17994	21060	13528	109380
8	2285	2600	3800	234	188	332	3709	2293	2085	5942	6569	9843	4444	44324
9	3012	638	1818	1509	1091	6420	11270	1002	4918	5830	10335	7522	3422	58787
10	11069	3904	4922	4853	2147	12274	15708	7896	10718	4178	17849	24817	5746	126081
11	19231	7086	4667	7032	3750	14393	15337	4445	15793	16940	3048	22133	28034	161889
12	28684	8084	8636	11431	5593	22820	20110	4249	12425	71301	36638	15663	13314	258948
13	7027	6257	3232	5740	2315	10283	17065	4152	5134	5087	26790	15703	15700	124485
SUM	84092	39003	34995	38882	20082	81955	109663	30891	66081	149626	146848	154306	95828	1052252

Table I.2: 2006 Base Year PCU Kilometres - IP

IP	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	3930	541	329	152	220	939	2160	1116	1290	5517	14106	10772	3485	44557
2	263	1394	1243	475	861	1421	3592	878	923	2776	4078	6676	2081	26661
3	337	1164	1266	414	586	412	1993	1143	1569	2911	3112	2655	1876	19438
4	168	209	310	188	322	1062	1110	240	599	1878	2033	3426	903	12448
5	203	1624	438	456	476	815	972	247	482	1194	2587	2892	958	13344
6	985	1459	388	2205	1031	3144	3481	136	4187	6009	7675	10463	5392	46555
7	1800	3109	1580	1300	1250	3193	10622	2483	3238	8182	10167	15395	9230	71549
8	945	1166	970	154	149	391	3015	2236	2488	4555	2033	4212	2802	25116
9	1314	947	1419	522	501	3562	7400	2255	3489	6040	7252	6709	2144	43554
10	5473	2902	2764	1779	927	5831	7985	4515	6147	2252	23811	37593	4228	106207
11	15113	4107	3626	2119	2320	7703	9979	2604	7540	11190	9486	21155	14979	111921
12	10395	7229	2791	3247	2882	10512	15750	4989	7074	42060	21942	4206	8161	141238
13	4502	2046	1663	732	923	5920	10574	2941	2892	4343	15894	7938	11435	71803
SUM	45428	27897	18787	13743	12448	44905	78633	25783	41918	98907	124176	134092	67674	734391

Norwich - Northern Distributor Road
Volume 2 – Appendices for Dependent Development



Table I.3: 2006 Base Year PCU Kilometres – PM Peak

PM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2493	592	1416	353	479	1492	3955	2487	2229	12271	18281	25064	11755	82867
2	1430	1741	1183	704	704	1387	6208	1459	705	4000	6593	6479	5296	37889
3	1169	1222	2089	485	327	671	3587	2344	996	4644	4615	6093	4333	32575
4	691	91	235	159	305	1244	2083	180	1089	3859	6464	8479	5303	30182
5	1532	689	510	584	518	1485	2140	220	284	1868	3447	4309	2250	19836
6	829	603	664	2799	1632	3618	4016	506	5430	10154	14361	17309	8582	70503
7	1074	2989	2306	1384	1016	3892	11640	6396	5730	13389	13291	17247	17752	98106
8	652	1010	1984	126	116	326	5235	2602	3834	8538	5465	5092	5096	40076
9	1373	476	2108	884	657	4541	10273	3252	4140	11038	12082	8671	4763	64258
10	3351	3440	6403	1192	3739	6187	13035	7744	5823	5794	24134	40481	4280	125603
11	1770	5750	5004	2869	6383	9026	21403	6485	10356	23079	7729	34173	20905	154932
12	5162	7302	5752	2984	8384	12051	20576	11288	8538	43834	35892	8758	18278	188799
13	2372	3207	2940	1460	2366	2824	12716	5466	3129	9796	24295	10437	13948	94956
SUM	23898	29112	32594	15983	26626	48744	116867	50429	52283	152264	176649	192592	1E+05	1040582

Norwich - Northern Distributor Road
Volume 2 – Appendices for Dependent Development



Table I.4: 2012 TEMPRO 5.4 Do Minimum PCU Kilometres – AM Peak

AM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	3200	1100	1870	651	738	1232	1657	755	1369	2882	800	4939	747	21940
2	1447	2573	1990	715	587	1876	4295	1399	416	4207	6181	8173	2675	36534
3	1989	1480	1701	257	319	573	1509	1387	2176	6854	5358	4496	2628	30727
4	943	83	186	266	430	1320	1625	27	596	1610	3372	3071	1279	14808
5	1095	690	472	828	617	1719	1631	133	625	4008	6223	9013	2399	29453
6	1449	1176	273	4030	1151	4773	4244	116	7300	6816	8751	12059	3224	55362
7	4543	4615	2522	2456	1768	5794	14610	3907	5081	18889	19849	22899	14631	121564
8	2488	2972	4321	266	209	388	4166	2625	2347	6575	7336	10908	4915	49516
9	3340	698	2033	1738	1218	7230	12830	1105	5726	6364	11339	8316	3720	65657
10	11699	4328	5321	5465	2363	13985	17632	8621	11639	4448	19026	26649	6260	137436
11	21172	7770	5210	7735	4144	16084	17253	5162	17250	18396	3301	23826	31084	178387
12	33172	8836	9459	12643	6146	24972	21902	5014	13668	75713	39420	16497	14567	282009
13	7822	6734	3487	6428	2479	11344	18399	4524	5711	5808	30017	17231	16747	136731
SUM	94359	43055	38845	43478	22169	91290	121753	34775	73904	162570	160973	168077	104876	1160124

Norwich - Northern Distributor Road
Volume 2 – Appendices for Dependent Development



Table I.5: 2012 TEMPRO 5.4 Do Minimum PCU Kilometres - IP

IP	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	4513	599	376	171	246	1021	2385	1240	1455	6110	15507	11880	3782	49285
2	291	1512	1345	522	944	1545	3903	971	1003	2992	4392	7184	2274	28878
3	376	1244	1343	443	641	454	2188	1280	1676	3159	3418	2940	2039	21201
4	191	243	348	207	361	1172	1267	253	662	2050	2225	3776	991	13746
5	230	1688	460	497	512	895	1079	264	522	1296	2789	3187	1049	14468
6	1116	1563	423	2443	1128	3427	3792	145	4677	6728	8438	11365	5892	51137
7	1990	3349	1714	1424	1358	3476	11465	2630	3543	8893	11157	16647	10015	77661
8	1067	1278	1042	171	164	419	3339	2595	2738	5015	2218	4482	3089	27617
9	1542	1020	1565	576	548	3893	8140	2486	3831	6593	7864	7322	2344	47724
10	6175	3137	3016	1946	1005	6370	8690	4973	6692	2444	25606	40019	4568	114641
11	17092	4426	3965	2326	2503	8468	10981	2854	8173	12016	10204	22666	16233	121907
12	11547	7771	3153	3569	3189	11440	17002	5357	7730	44746	23518	4554	8840	152416
13	4906	2231	1819	801	1011	6491	11502	3238	3157	4695	17207	8615	12160	77833
SUM	51036	30061	20569	15096	13610	49071	85733	28286	45859	106737	134543	144637	73276	798514

Table I.6: 2012 TEMPRO 5.4 Do Minimum PCU Kilometres – PM Peak

PM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2716	677	1354	371	543	1540	4189	2594	2383	13025	19850	27144	12349	88735
2	1525	1795	1239	730	728	1457	6425	1409	684	4124	7050	6922	5604	39692
3	1281	1210	2154	506	329	684	3629	2356	1020	4895	4997	6481	4546	34088
4	891	98	251	184	328	1336	2312	182	1199	4213	7036	9299	5622	32951
5	1445	714	503	635	556	1585	2339	209	308	1973	3763	4659	2371	21060
6	981	684	739	3071	1931	4164	4515	569	6143	11368	15844	18700	9565	78274
7	1173	3215	2513	1532	1103	4221	12338	6465	6343	14385	14571	18558	18670	105087
8	728	1065	2146	137	118	340	5788	3036	3895	9042	5909	5474	5472	43150
9	1524	493	2258	972	711	4963	11482	3494	4345	11678	13029	9375	5085	69409
10	3637	3655	6930	1291	4024	6603	14102	8370	6263	6131	25790	43270	4628	134694
11	1946	6240	5526	3101	6944	9784	23162	7042	11120	24731	8337	36564	22679	167176
12	5734	7990	6319	3255	9151	12869	22098	12182	9328	46811	38727	9255	19499	203218
13	2580	3464	3169	1579	2562	3068	13623	5916	3338	10544	26845	11326	14823	102837
SUM	26161	31300	35101	17364	29028	52614	126002	53824	56369	162920	191748	207027	130913	1120371

Norwich - Northern Distributor Road
Volume 2 – Appendices for Dependent Development



Table I.7: 2027 TEMPRO 5.4 Do Minimum PCU Kilometres – AM Peak

AM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	4001	1405	2460	819	933	1514	2059	931	1692	3478	979	5979	919	27169
2	1834	3276	2565	915	758	2372	5378	1734	529	5200	7514	9945	3283	45303
3	2505	1855	2197	335	400	707	1890	1712	2703	8389	6750	5475	3216	38134
4	1213	107	236	330	561	1637	2050	35	735	1989	4156	3781	1640	18470
5	1419	885	608	1032	785	2132	2042	168	767	4859	7764	10896	2878	36235
6	1767	1581	349	5053	1436	5734	5094	147	8449	8414	10632	14375	3865	66896
7	5422	5646	3050	3085	2149	6978	17593	4711	6182	22505	23721	27265	17189	145496
8	2789	3603	5235	337	256	499	5113	3138	2789	7822	9124	12990	5848	59543
9	4060	849	2457	2129	1510	8521	15241	1308	6819	7435	13831	9837	4452	78449
10	12705	5037	6221	6476	2758	16316	20890	9760	13267	5155	22595	30530	7415	159125
11	25601	9426	6375	9463	4956	19343	21168	6215	20622	22150	3885	27824	37335	214363
12	38935	10658	11378	15272	7302	29774	25932	6001	16183	85986	46716	18476	17359	329972
13	8992	7738	4096	7571	2826	13503	21238	5314	6553	7023	36111	20137	19107	160209
SUM	111243	52066	47227	52817	26630	109030	145688	41174	87290	190405	193778	197510	124506	1379364

Norwich - Northern Distributor Road
Volume 2 – Appendices for Dependent Development



Table I.8: 2027 TEMPRO 5.4 Do Minimum PCU Kilometres - IP

IP	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	5521	766	480	215	308	1239	2849	1504	1779	7275	18610	13996	4451	58993
2	357	1882	1649	643	1177	1873	4709	1194	1221	3554	5215	8475	2738	34687
3	455	1529	1635	533	790	546	2665	1530	2035	3737	4140	3634	2405	25634
4	231	297	422	256	439	1452	1541	308	807	2507	2707	4601	1197	16765
5	292	2077	572	601	631	1085	1306	320	633	1553	3259	3839	1262	17430
6	1348	1941	519	2959	1382	4059	4523	181	5648	8163	10221	13451	7077	61472
7	2252	4059	2088	1748	1665	4214	13601	3105	4289	10653	13479	19640	11847	92640
8	1230	1532	1246	204	197	481	3927	3061	3211	5986	2675	5227	3644	32621
9	1825	1241	1877	698	662	4610	9652	2962	4566	7775	9365	8683	2798	56714
10	7054	3751	3616	2355	1202	7661	10448	5957	7894	2877	29974	45600	5346	133735
11	20521	5247	4794	2835	2924	10226	13329	3480	9740	13973	11890	26374	19132	144465
12	13405	9168	3934	4374	3867	13581	20062	6373	9188	50946	27336	5333	10501	178068
13	5735	2686	2168	988	1229	7699	13668	3806	3723	5515	20356	10265	13949	91787
SUM	60226	36176	25000	18409	16473	58726	102280	33781	54734	124514	159227	169118	86347	945011

Norwich - Northern Distributor Road
Volume 2 – Appendices for Dependent Development



Table I.9: 2027 TEMPRO 5.4 Do Minimum PCU Kilometres - PM Peak

PM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	3244	928	1830	471	676	1832	5001	3564	3176	16338	23677	31471	15317	107525
2	1879	2250	1551	907	903	1789	7773	1718	862	4832	8374	8087	6405	47330
3	1537	1478	2644	620	408	823	4274	2794	1221	5628	5927	7641	5244	40239
4	1115	120	311	223	403	1611	2738	216	1441	4850	8448	11067	6517	39060
5	1850	891	613	787	683	1946	2786	247	361	2322	4484	5486	2683	25139
6	1228	846	889	3681	2352	4887	5262	690	7056	13228	18897	21939	11010	91965
7	1417	3861	3044	1890	1332	5041	14632	7771	7645	16721	17455	21647	21372	123828
8	867	1270	2606	163	146	418	6997	3623	4651	10181	6941	6646	6239	50748
9	1805	600	2732	1151	851	5773	13379	4093	5150	13246	15292	10835	5874	80781
10	4202	4349	8219	1529	4768	7726	16605	9730	7243	7048	30431	50151	5479	157480
11	2342	7482	6633	3665	8384	11671	27267	8344	13112	28717	9764	42821	27203	197405
12	6837	9585	7517	3871	10802	14998	25800	14192	10906	53765	45952	10381	22461	237067
13	3032	4093	3766	1981	3026	3634	16012	6821	3944	12227	32822	13332	16952	121642
SUM	31355	37753	42355	20939	34734	62149	148526	63803	66768	189103	228464	241504	152756	1320209

Table I.10: 2012 Scenario 1 Do Minimum PCU Kilometres – AM Peak

AM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	3125	1016	1830	609	716	1247	1647	728	1387	3201	831	5413	832	22582
2	1343	2376	1846	644	560	1791	4097	1333	405	3977	5996	7983	2535	34886
3	1884	1403	1579	234	312	568	1453	1355	2117	6660	5421	4596	2634	30216
4	832	72	186	232	389	1243	1549	25	563	1492	3215	2931	1159	13888
5	1042	644	457	743	601	1706	1618	131	619	3795	6067	8582	2177	28182
6	1409	1063	261	3765	1128	4685	4594	115	7559	6644	8490	12079	3122	54914
7	4609	4636	2580	2539	1756	6210	15320	3916	5502	19998	20127	23909	14957	126059
8	2483	2939	4356	254	212	394	4147	2665	2452	6595	7378	11293	4921	50089
9	3109	677	2032	1600	1132	7573	12890	1182	5780	6299	11302	8187	3843	65606
10	11603	4328	5300	5266	2353	14527	18398	9122	11999	4660	19680	29880	6529	143645
11	21544	7726	5312	7534	4607	16604	17401	5737	17336	19182	3547	25264	31850	183644
12	33611	8944	9364	12512	6373	25609	22730	5321	14042	76970	41535	16810	15602	289423
13	7644	6614	3449	6188	2540	11964	18743	4474	5721	5902	30267	18578	16953	139037
SUM	94238	42438	38552	42120	22679	94121	124587	36104	75482	165375	163856	175505	107114	1182171

Table I.11: 2012 Scenario 1 Do Minimum PCU Kilometres - IP

IP	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	4239	566	353	154	220	973	2391	1235	1394	5974	14908	12179	3697	48283
2	276	1362	1242	457	865	1401	3856	933	952	2908	4296	7091	2202	27841
3	352	1154	1258	397	603	432	2189	1272	1649	3140	3409	2983	2022	20860
4	171	215	316	179	321	1115	1198	242	616	1928	2152	3719	938	13110
5	201	1552	444	443	490	882	1087	254	498	1254	2722	3212	1001	14040
6	1054	1401	401	2311	1071	3500	4093	135	4906	6721	8543	11947	5910	51993
7	2026	3367	1726	1365	1411	3612	12024	2708	3656	9347	11766	17310	10314	80632
8	1055	1215	1038	161	157	405	3396	2657	2843	5229	2356	4561	2909	27982
9	1474	972	1539	532	518	4195	8318	2546	3882	6723	7948	7657	2379	48683
10	6032	3068	3008	1837	973	6508	9262	5228	6847	2510	25795	40531	4748	116347
11	16505	4346	3926	2235	2448	8567	11523	3013	8286	12281	10507	23098	16552	123287
12	11820	7599	3169	3506	3218	11579	17610	5474	8215	45340	23854	5119	9628	156131
13	4865	2176	1784	754	966	6410	11875	3078	3193	4844	17872	9341	12318	79476
SUM	50070	28993	20204	14331	13261	49579	88822	28775	46937	108199	136128	148748	74618	808665

Norwich - Northern Distributor Road
Volume 2 – Appendices for Dependent Development



Table I.12: 2012 Scenario 1 Do Minimum PCU Kilometres – PM Peak

PM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2581	594	1236	328	481	1446	4153	2539	2342	12790	19194	26676	12090	86450
2	1416	1607	1122	643	693	1310	6317	1361	653	4047	6863	6868	5495	38395
3	1177	1113	2005	460	328	657	3587	2466	1023	4892	4889	6451	4516	33564
4	863	84	221	153	284	1425	2104	175	1070	3909	6582	8791	5239	30900
5	1375	648	467	559	533	1586	2448	200	281	1947	3702	4743	2309	20798
6	1042	641	717	2933	1935	4135	4984	577	6513	11612	15799	18790	9841	79519
7	1249	3198	2547	1535	1127	4232	13262	6712	6670	15505	14269	19783	19165	109254
8	746	1009	2136	129	125	337	5976	3092	4107	9126	6365	5579	5126	43853
9	1579	462	2193	978	701	5633	11804	3524	4398	11341	12800	9309	4896	69618
10	3742	3396	6699	1164	3788	6344	14970	8135	6247	6171	26982	43922	4763	136323
11	2017	5991	5383	2956	6762	9599	24824	7208	11207	25657	8559	38567	23154	171884
12	5909	7742	6289	3044	8656	12471	22976	12617	9073	51965	39895	8900	20669	210206
13	2954	3268	3059	1435	2409	2993	13875	5876	3475	10835	27373	12057	15057	104666
SUM	26650	29753	34074	16317	27822	52168	131280	54482	57059	169797	193272	210436	132320	1135430

Norwich - Northern Distributor Road
Volume 2 – Appendices for Dependent Development



Table I.13: 2027 Scenario 1 Do Minimum PCU Kilometres – AM Peak

AM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	3678	1137	2135	663	811	1632	1980	865	1695	3797	1248	7149	1053	27843
2	1447	2416	1928	671	598	2144	4505	1444	458	4091	7302	9219	2596	38819
3	2054	1491	1684	242	337	713	1657	1544	2374	7409	6809	5959	2762	35035
4	884	70	187	226	395	1487	1716	27	606	1528	4011	3262	1229	15628
5	1123	654	467	731	635	2113	1806	143	699	3936	7273	9468	2128	31176
6	1713	1173	297	4255	1269	5869	6515	177	9611	7277	10904	14255	3284	66599
7	5292	5486	3050	3100	2067	8589	19414	4887	7189	24857	26400	32065	17573	159969
8	2808	3409	4977	287	249	531	5304	3379	3051	8127	9996	14396	6012	62526
9	3479	729	2263	1657	1192	10406	14557	1446	6622	7089	14045	9577	4598	77660
10	11606	4787	5880	5607	2503	19119	21493	10433	13655	5467	26138	38068	7687	172443
11	27270	9631	7203	9272	6021	22025	23630	7717	22333	26658	4635	36336	42665	245396
12	39132	11059	11355	15193	8522	34524	29539	7373	17996	93786	60180	21891	23161	373711
13	8185	7156	3687	6413	2828	17136	21313	5347	6440	6983	38037	26149	19345	169019
SUM	108671	49198	45113	48317	27427	126288	153429	44782	92729	201005	216978	227794	134093	1475824

Norwich - Northern Distributor Road
Volume 2 – Appendices for Dependent Development



Table I.14: 2027 Scenario 1 Do Minimum PCU Kilometres - IP

IP	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	4380	542	351	155	220	1121	2946	1318	1508	6885	16549	14198	3756	53929
2	257	1213	1097	368	779	1251	5189	934	901	2964	4850	7966	2274	30043
3	333	1051	1139	340	554	446	3312	1313	1676	3603	4128	3758	2174	23827
4	154	183	277	146	277	1233	1609	246	606	1910	2459	4286	947	14333
5	190	1412	409	357	450	990	2065	263	476	1508	3029	3772	1023	15944
6	1165	1346	399	2466	1131	4111	5799	165	7047	8338	12160	14254	7047	65428
7	2195	3839	2117	1426	1726	4176	17607	3669	4949	21984	16347	23483	12601	116119
8	1067	1171	1081	158	160	427	5726	2876	3223	6606	3165	5629	3526	34815
9	1529	973	1556	532	523	6115	10851	2870	4631	8906	11051	9303	2777	61617
10	6094	3350	3400	1857	998	8193	13418	6422	10181	3027	30074	46013	5639	138666
11	18002	4867	4628	2524	2875	12659	17682	3853	12028	13989	13093	29151	19938	155289
12	13177	8293	3905	3990	3847	14107	25678	6858	10298	51730	29825	8376	12610	192694
13	4770	2267	1902	762	1030	7003	16111	3499	4100	6516	22172	12184	13939	96255
SUM	53313	30507	22261	15081	14570	61832	127993	34286	61624	137966	168902	182373	88251	998959

Norwich - Northern Distributor Road
Volume 2 – Appendices for Dependent Development



Table I.15: 2027 Scenario 1 Do Minimum PCU Kilometres - PM Peak

PM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2941	655	1366	310	460	1744	4601	3245	2771	14271	22871	31187	13721	100143
2	1458	1587	1131	601	692	1282	6958	1523	702	4303	8076	8863	5909	43085
3	1182	1109	2005	437	339	725	3906	2811	1134	5247	6249	7285	4802	37231
4	893	77	203	136	261	1935	2045	184	1072	3863	7341	9589	4976	32575
5	1461	642	448	534	531	1892	2748	214	469	2018	4518	5970	2382	23827
6	1401	708	849	3391	2636	5126	7067	761	8616	14676	20817	23863	12903	102814
7	1467	3514	2941	1673	1212	4787	16607	8408	7800	17736	18805	23867	21959	130776
8	865	1057	2468	127	143	388	7546	3803	4950	10219	8208	7341	6294	53409
9	1989	488	2330	939	722	8644	13516	4175	4990	12725	15310	10905	5654	82387
10	4193	3389	7093	1150	3799	7017	18282	9679	7060	7013	35737	53693	5801	163906
11	2555	7186	6541	3635	7894	12531	31274	9613	13730	30216	10804	52987	28622	217588
12	7072	8746	7479	3319	9360	14468	29220	16002	9904	64714	57199	14171	27544	269198
13	3374	3513	3125	1420	2411	3422	16130	6950	3925	12738	36922	17129	17228	128287
SUM	30851	32671	37979	17672	30460	63961	159900	67368	67123	199739	252857	266850	157795	1385226

Norwich - Northern Distributor Road
Volume 2 – Appendices for Dependent Development



Table I.16: 2012 Scenario 2 Do Minimum PCU Kilometres - AM Peak

AM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	3096	998	1767	607	713	1248	1639	794	1380	3233	832	5455	833	22595
2	1318	2297	1767	640	549	1772	4005	1677	394	3962	5966	7966	2541	34854
3	1839	1372	1512	232	308	563	1405	1639	2088	6632	5270	4592	2567	30019
4	820	70	181	231	385	1229	1532	27	560	1521	3204	2926	1158	13844
5	1027	621	441	737	595	1690	1599	133	612	3864	6077	8587	2131	28114
6	1379	1041	247	3737	1116	4621	4505	115	8115	6520	8472	12051	3057	54976
7	4502	4396	2402	2482	1697	6079	14676	4410	5690	19607	19631	23733	14564	123869
8	2640	3633	4936	263	221	391	4370	2799	3006	6549	7809	11176	5292	53085
9	3057	644	1941	1599	1123	7724	12909	1447	5886	6329	11246	8427	3831	66163
10	11368	4134	5038	5110	2254	14084	17537	10895	12827	4684	18989	27885	6357	141162
11	21056	7336	4927	7406	4572	16040	16985	7394	17988	18871	3552	24902	31231	182260
12	33350	8679	9124	12363	6317	25414	22212	5504	15069	76436	41280	16677	15396	287821
13	7513	6494	3325	6068	2504	11824	18406	4827	6166	5851	29803	18344	16768	137893
SUM	92965	41715	37608	41475	22354	92679	121780	41661	79781	164059	162131	172721	105726	1176655

Norwich - Northern Distributor Road
Volume 2 – Appendices for Dependent Development



Table I.17: 2012 Scenario 2 Do Minimum PCU Kilometres - IP

IP	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	4219	560	339	152	217	967	2294	1392	1390	5901	14937	12189	3636	48193
2	274	1356	1226	456	863	1397	3734	1086	956	2879	4279	7059	2199	27764
3	337	1141	1229	394	600	428	2095	1504	1646	3086	3357	2948	1967	20732
4	170	214	312	179	321	1111	1183	258	615	1904	2155	3747	929	13098
5	201	1543	439	443	491	881	1058	256	498	1254	2726	3239	1000	14029
6	1050	1391	396	2297	1069	3477	4032	142	5040	6679	8549	11949	5899	51970
7	1978	3251	1650	1344	1377	3564	11549	2990	3663	8961	11552	16892	10042	78813
8	1172	1444	1253	183	165	421	3785	2913	3103	5614	2518	4861	3334	30766
9	1486	958	1510	532	518	4348	8335	2847	3997	7129	8346	7807	2423	50236
10	5920	3009	2961	1811	954	6410	8811	5697	7218	2481	25111	39949	4705	115037
11	16513	4324	3876	2228	2451	8574	11148	3306	8629	12011	10263	22669	16246	122238
12	11806	7584	3142	3510	3243	11558	17109	5869	8336	44459	23979	5175	9413	155183
13	4762	2164	1769	745	969	6402	11407	3601	3326	4848	17430	8990	12199	78612
SUM	49888	28939	20102	14274	13238	49538	86540	31861	48417	107206	135202	147474	73992	806671

Norwich - Northern Distributor Road
Volume 2 – Appendices for Dependent Development



Table I.18: 2012 Scenario 2 Do Minimum PCU Kilometres - PM Peak

PM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2568	589	1181	326	479	1443	4040	2579	2324	12494	18987	26856	11972	85838
2	1419	1612	1122	642	691	1306	6118	1426	634	3971	6726	6826	5454	37947
3	1164	1102	1924	457	325	648	3471	2760	989	4701	4804	6353	4421	33119
4	863	84	218	153	285	1399	2080	191	1057	3785	6567	8804	5176	30662
5	1345	648	461	557	532	1563	2398	194	276	1837	3706	4746	2270	20533
6	1042	640	711	2921	1929	4103	4927	578	6545	11250	15665	18840	9696	78847
7	1211	3125	2438	1523	1116	4161	12740	6682	6520	14330	14135	19330	18696	106007
8	806	1098	2469	137	127	357	5873	3246	4617	11330	7259	5819	5713	48851
9	1603	474	2157	985	702	6007	12130	3813	4435	11925	13533	9922	5210	72896
10	3747	3328	6555	1167	3767	6342	14608	8463	6191	6078	26214	43537	4819	134816
11	2036	5993	5334	2956	6769	9652	24064	7074	11458	25005	8488	38392	22961	170182
12	5954	7765	6219	3046	8671	12457	22434	12491	9354	50592	39840	8846	20362	208031
13	2904	3255	3012	1437	2417	2964	13546	6053	3401	10719	27309	11847	14918	103782
SUM	26662	29713	33801	16307	27810	52402	128429	55550	57801	168017	193233	210118	131668	1131511

Norwich - Northern Distributor Road
Volume 2 – Appendices for Dependent Development



Table I.19: 2027 Scenario 2 Do Minimum PCU Kilometres - AM Peak

AM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	3625	1059	1868	647	788	1621	2240	933	1662	3850	1305	7221	1066	27885
2	1347	2163	1742	624	556	2071	4892	1882	429	4134	7177	8987	2550	38554
3	1947	1400	1536	231	325	698	1574	1920	2383	7480	6400	5790	2569	34253
4	855	66	174	222	380	1450	1667	29	603	1642	3916	3196	1250	15450
5	1106	603	435	718	617	2066	1958	139	683	4003	7191	9265	2005	30789
6	1608	1080	261	4035	1207	5610	6098	158	11792	6996	10775	13962	3051	66633
7	4980	4847	2677	2944	1922	8171	17569	5540	8164	24508	25176	30278	16632	153408
8	3016	4530	5876	301	256	518	5461	3492	4198	7920	10682	13873	6438	66561
9	3246	646	1966	1609	1139	10627	14482	1778	7019	7785	13737	10186	4967	79187
10	11615	5118	5801	6006	2646	19005	21177	12794	16238	6334	25229	36335	8075	176373
11	26161	9038	6034	8926	5970	21044	22614	10161	22942	26324	4649	35906	41462	241231
12	37850	10146	10532	14602	8210	33617	28402	7296	20953	93056	58657	21387	23948	368656
13	7955	6923	3799	6214	2828	17062	21739	5759	7409	7208	37366	25549	18685	168496
SUM	105311	47619	42701	47079	26844	123560	149873	51881	104475	201240	212260	221935	132698	1467476

Norwich - Northern Distributor Road
Volume 2 – Appendices for Dependent Development



Table I.20: 2027 Scenario 2 Do Minimum PCU Kilometres - IP

IP	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	4653	564	346	159	224	1140	2418	1564	1477	6742	17190	14721	3895	55093
2	277	1330	1223	428	868	1382	3993	1258	1030	3311	5133	8383	2422	31038
3	338	1136	1238	378	626	481	2327	1753	1824	3702	4196	3911	2184	24094
4	160	192	291	164	305	1284	1222	271	639	2041	2656	4597	975	14797
5	199	1526	448	422	508	1045	1194	277	530	1475	3274	4071	1067	16036
6	1201	1386	411	2540	1179	4359	5081	172	7282	8410	12791	15066	7255	67133
7	1985	3580	1847	1416	1640	4286	13591	3551	4516	11673	16005	22043	12519	98652
8	1237	1625	1446	197	182	470	4552	3435	3829	7538	3723	5998	4166	38398
9	1579	996	1616	555	550	6669	9954	3470	4873	9436	11576	9607	3010	63891
10	6204	3478	3547	1966	1050	8354	11504	7774	9188	3063	31021	47126	6001	140276
11	18789	5006	4704	2651	2969	13229	14993	4853	11692	14860	13629	30010	20123	157508
12	13833	8642	3970	4214	4075	14785	22097	7833	9978	52379	31002	9137	13244	195189
13	4954	2504	2129	758	1078	7303	13910	4376	4338	6407	21436	11784	14935	95912
SUM	55409	31965	23216	15848	15254	64787	106836	40587	61196	131037	173632	186454	91796	998017

Norwich - Northern Distributor Road
Volume 2 – Appendices for Dependent Development



Table I.21: 2027 Scenario 2 Do Minimum PCU Kilometres - PM Peak

PM	1	2	3	4	5	6	7	8	9	10	11	12	13	SUM
1	2907	630	1248	304	447	1686	4227	3145	2568	14333	21834	31590	13254	98173
2	1456	1582	1115	601	685	1268	6365	1609	712	4585	7863	8709	5654	42204
3	1157	1077	1863	439	331	699	3581	3353	1110	5201	5970	7165	4457	36403
4	877	75	197	136	260	1830	1952	207	1048	3779	7329	9687	4774	32151
5	1457	636	437	531	529	1817	2615	191	456	1985	4545	6004	2265	23468
6	1381	703	829	3326	2610	4980	6835	723	8793	14224	20493	23962	12340	101199
7	1303	3349	2798	1612	1219	4722	15001	7759	7522	16726	17713	21888	22152	123764
8	961	1147	2887	137	144	414	6306	3996	5622	13276	9440	7716	6554	58600
9	2120	488	2311	969	733	10062	14379	4665	5169	14662	17122	12813	6233	91726
10	4214	3353	6879	1120	3646	6931	17543	10267	7322	7605	34965	52298	6848	162991
11	2593	7295	6336	3640	7894	12597	28474	9057	14330	29354	10741	52840	28493	213644
12	7184	8677	7378	3314	9355	14287	27079	15190	11572	62315	57054	14071	26128	263604
13	3229	3495	2982	1402	2391	3267	15193	6975	3796	13270	37074	16874	17181	127129
SUM	30839	32507	37260	17531	30244	64560	149550	67137	70020	201315	252143	265617	156333	1375056

