

Braintree Local Plan

Preferred Option Assessment

Highways/Transport Planning

March 2017



Appendix A: NTEM Comparison

A comparison with the latest National Trip End Model (NTEM) forecast was undertaken for the three variations of the preferred option and the results are shown in Table A1 below. The difference between what was forecast by NTEM between 2016 and 2033, shown in the NTEM Growth column for each NTEM zone, and the level of proposed development in each NTEM zone is shown under each scenario column.

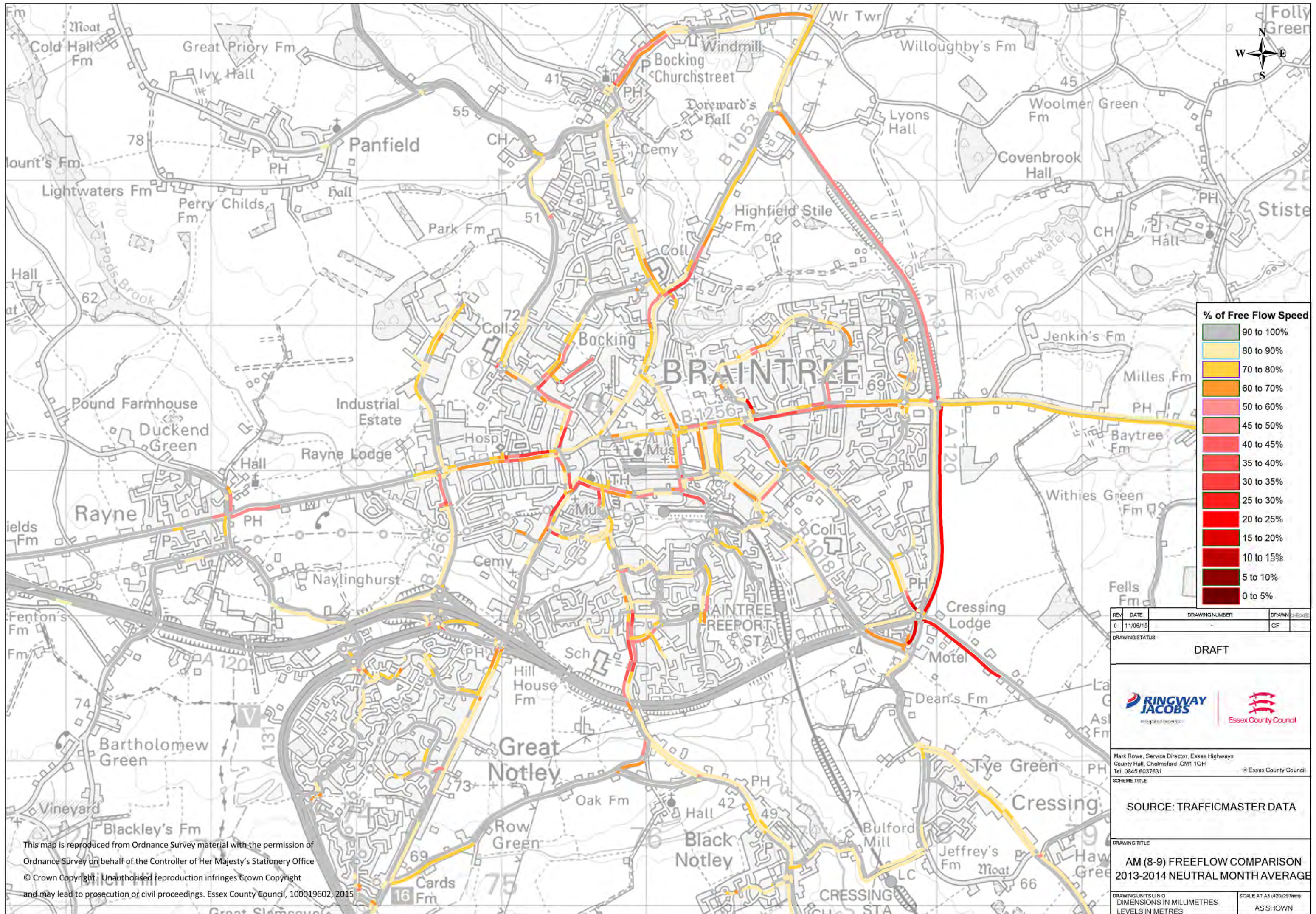
Table A1: Difference between NTEM housing & employment forecasts and Local Plan

Zone	Housing Scenario				Employment Scenario			
	NTEM Growth	1	2	3	NTEM Growth	1	2	3
Braintree 001	529	-529	-529	-529	142	-142	-142	-142
Braintree 002	482	-374	-374	-374	110	-110	-110	-110
Braintree 003	473	-423	-423	-423	124	-124	-124	-124
Braintree 004	728	-728	-728	-728	229	-229	-229	-229
Braintree 005	491	+1609	+2609	+3609	165	+1354	+1867	+2379
Braintree 006	619	-222	-222	-222	223	+658	+658	+658
Braintree 007	667	+953	+953	+953	201	+1047	+1047	+1047
Braintree 008	563	-427	-427	-427	256	+144	+144	+144
Braintree 009	802	-711	-711	-711	518	-518	-518	-518
Braintree 010	545	-260	-260	-260	146	-146	-146	-146
Braintree 011	722	-527	-527	-527	281	-281	-281	-281
Braintree 012	766	-621	-621	-621	281	-281	-281	-281
Braintree 013	670	+1420	+1420	+1420	172	+1154	+1154	+1154
Braintree 014	762	+1968	+2968	+3968	248	+1130	+1642	+2155
Braintree 015	703	-213	-213	-213	145	+206	+206	+206
Braintree 016	428	-388	-388	-388	52	-52	-52	-52
Braintree 017	884	-94	-94	-94	621	-241	-241	-241
Braintree 018	574	+126	+126	+126	167	-167	-167	-167
Total	11408	+559	+2559	+4559	4081	+3402	+4427	+5452

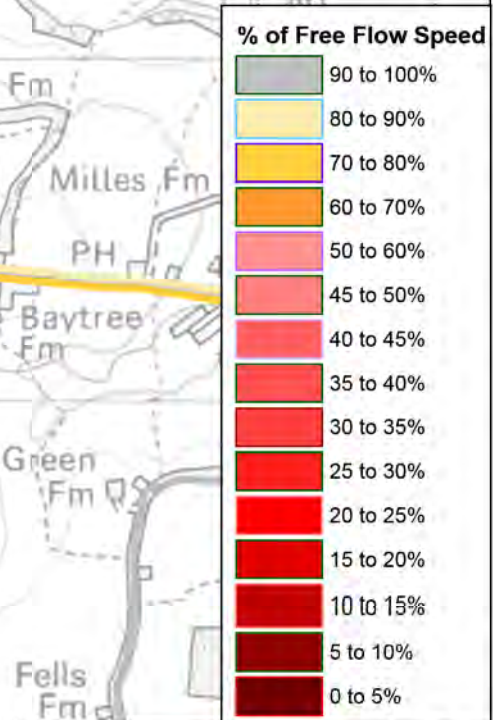
This comparison was undertaken to demonstrate how much growth authorities and planners would already be aware of from the existing Department for Transport (DfT) NTEM forecasts.

The results show that there will be more development in the low growth Garden Community scenario than the NTEM is currently forecasting for Braintree District with around 560 more homes and 3,400 more jobs than the forecast. In the high growth Garden Community scenario there will be considerably more development than forecast with around 4,500 more homes and 5,450 more jobs.

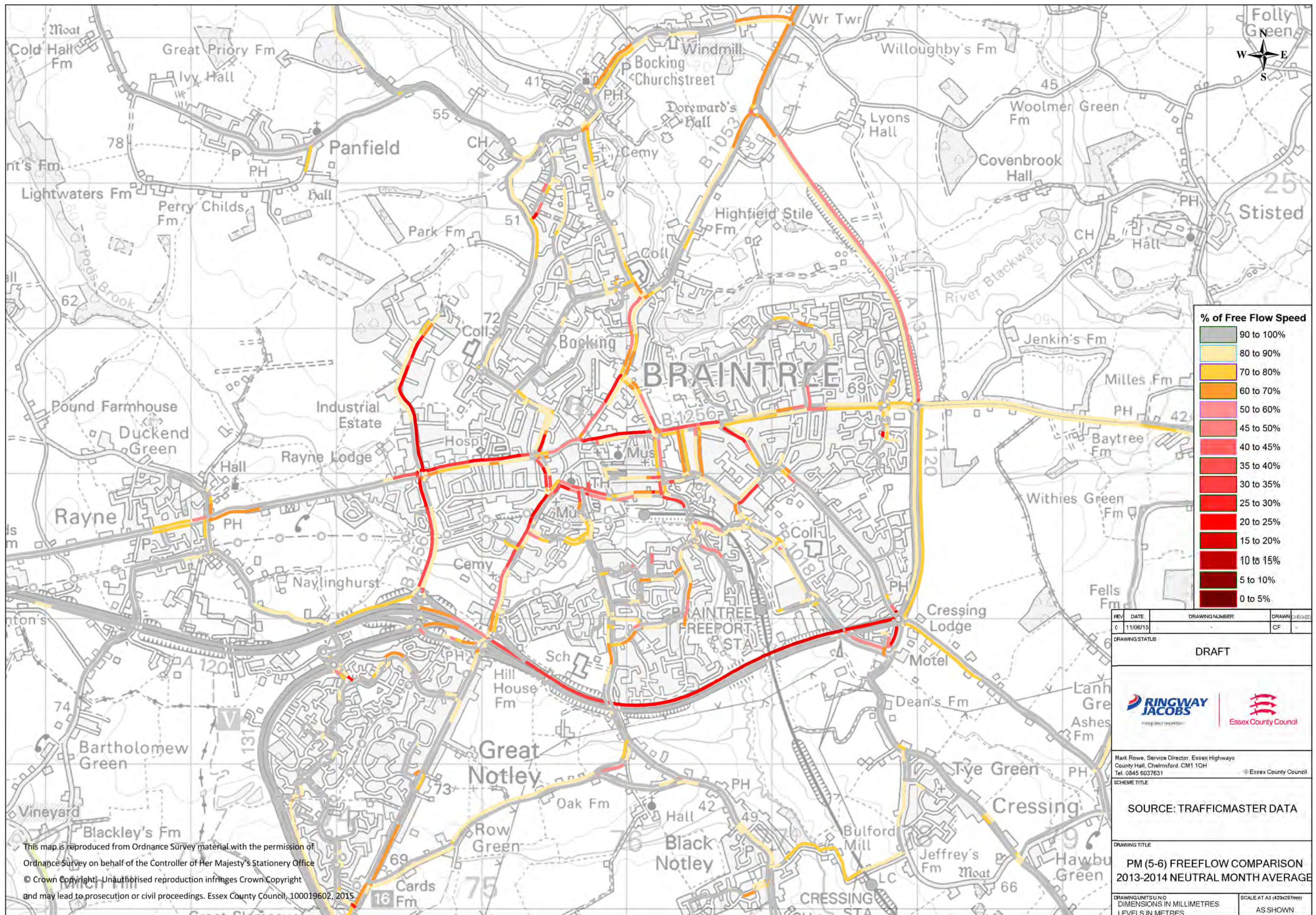
**Appendix B1:
2013/14
Trafficmaster Plots**



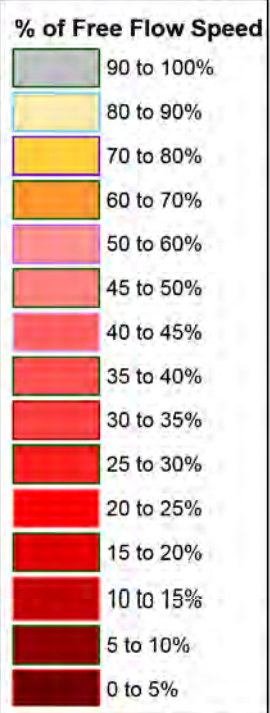
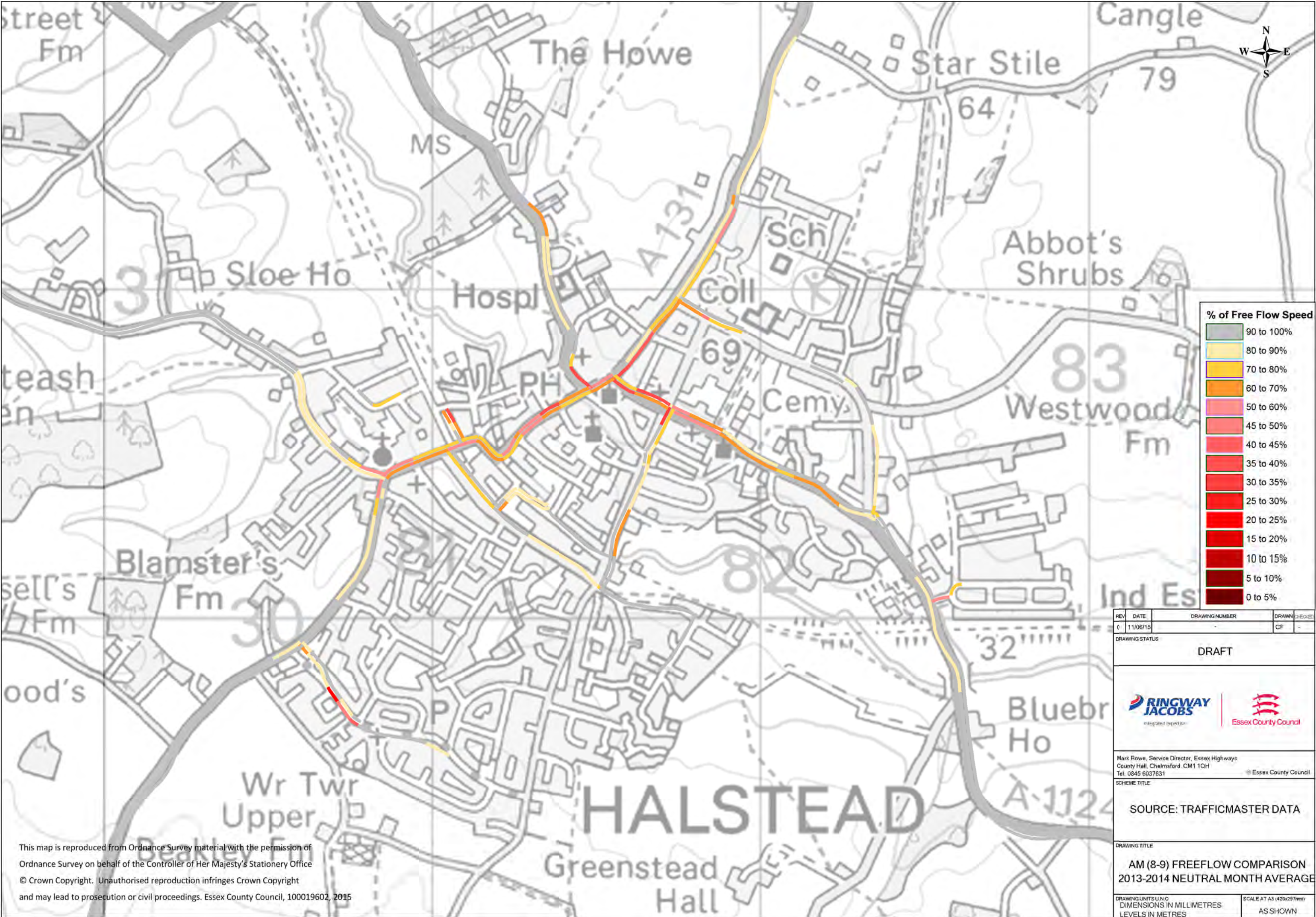
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DRAFT				
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SCHEME TITLE				
SOURCE: TRAFFICMASTER DATA				
DRAWING TITLE				
AM (8-9) FREEFLOW COMPARISON 2013-2014 NEUTRAL MONTH AVERAGE				
DRAWING UNITS DIMENSIONS IN MILLIMETRES LEVELS IN METRES			SCALE AT A3 (420x297mm) AS SHOWN	



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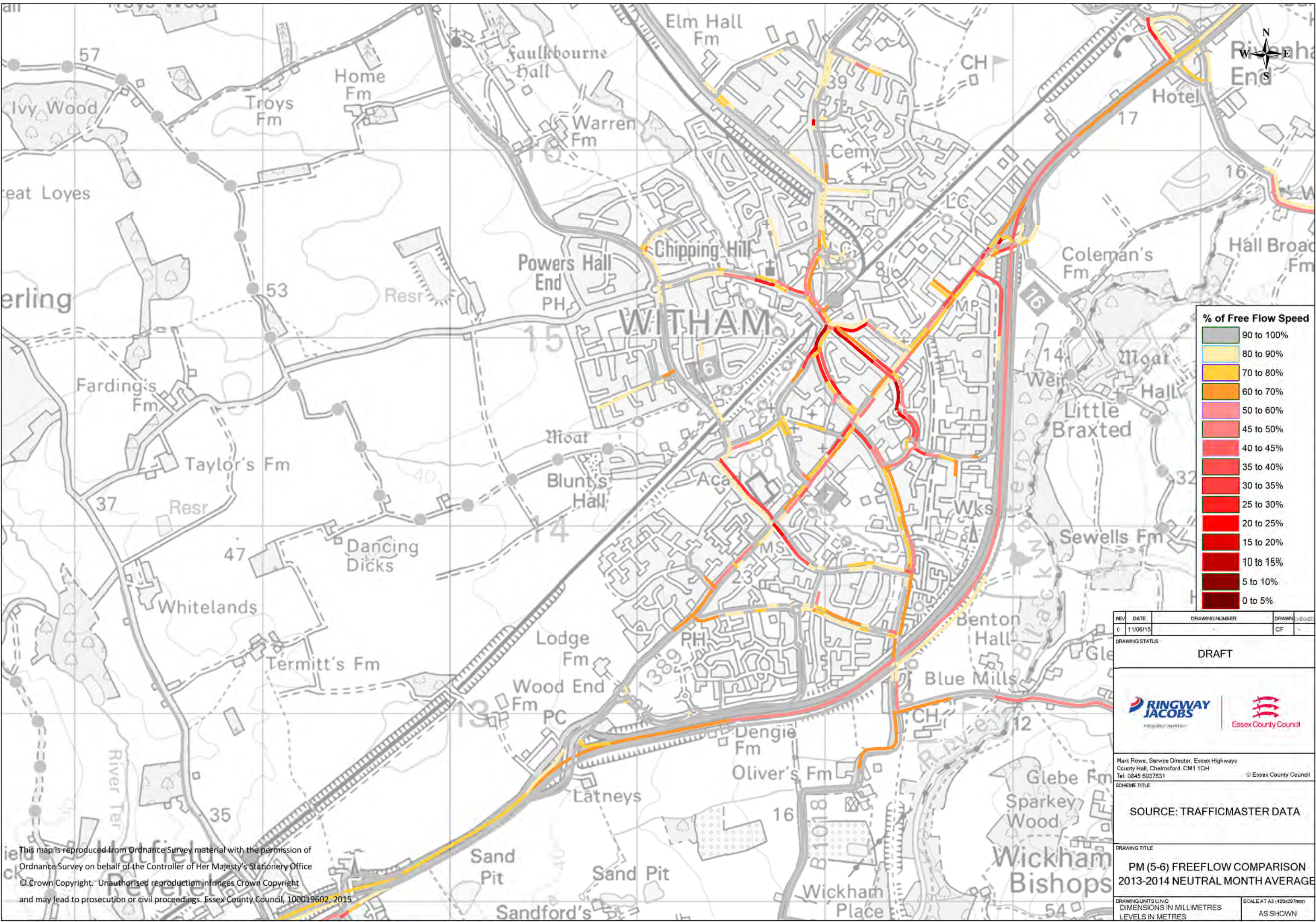
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SOURCE: TRAFFICMASTER DATA				
DRAWING TITLE				
AM (8-9) FREEFLOW COMPARISON 2013-2014 NEUTRAL MONTH AVERAGE				
DRAWING UNITS U.N.O. DIMENSIONS IN MILLIMETRES LEVELS IN METRES			SCALE AT A3 (420x297mm) AS SHOWN	

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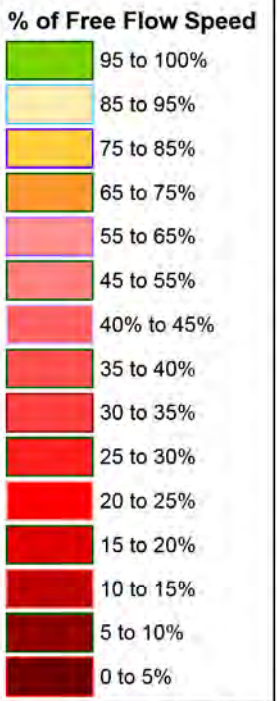
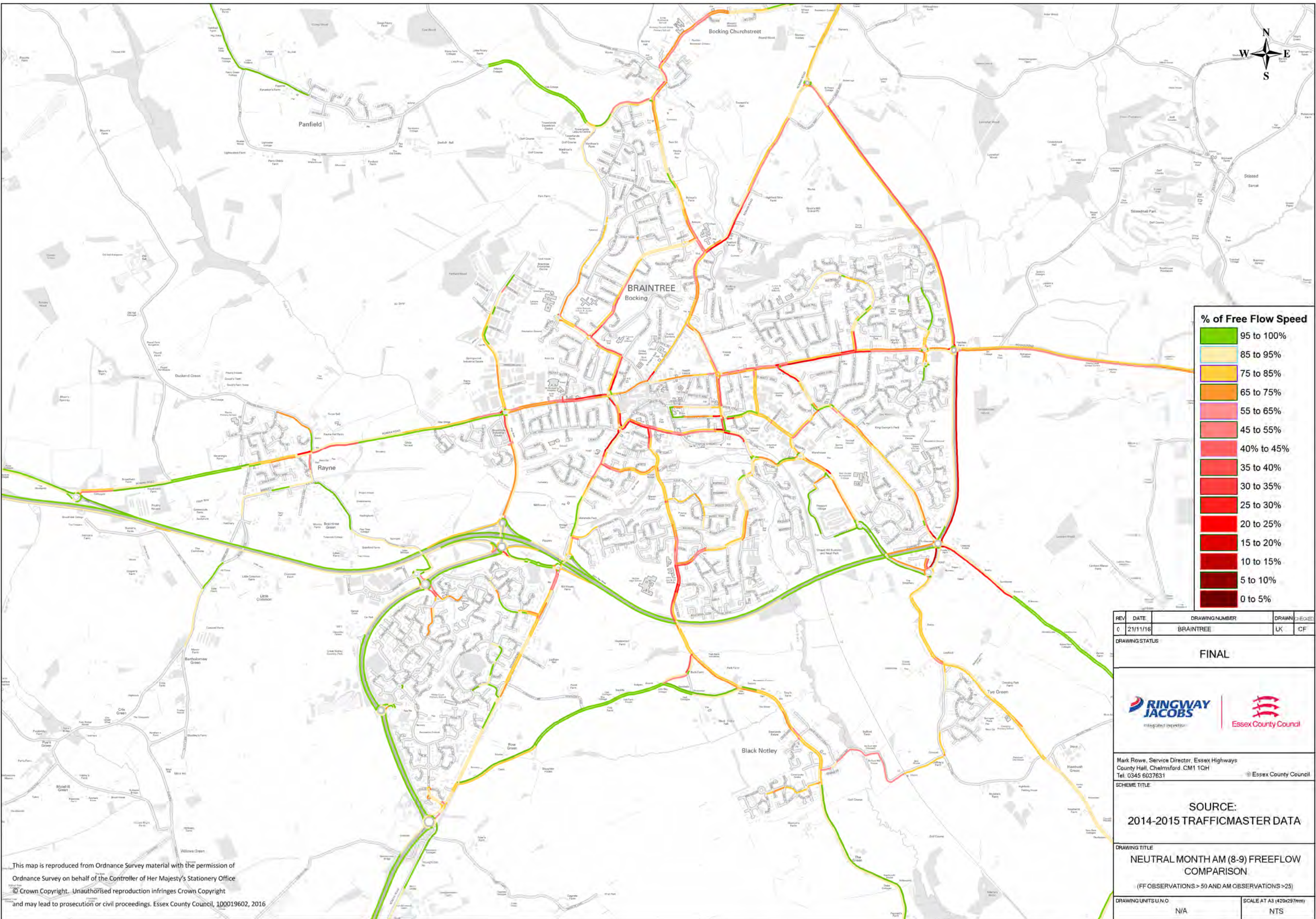
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SCHEME TITLE				
SOURCE: TRAFFICMASTER DATA				
DRAWING TITLE				
PM (5-6) FREEFLOW COMPARISON 2013-2014 NEUTRAL MONTH AVERAGE				
DRAWING UNITS U.N.O. DIMENSIONS IN MILLIMETRES LEVELS IN METRES			SCALE AT A3 (420x297mm) AS SHOWN	





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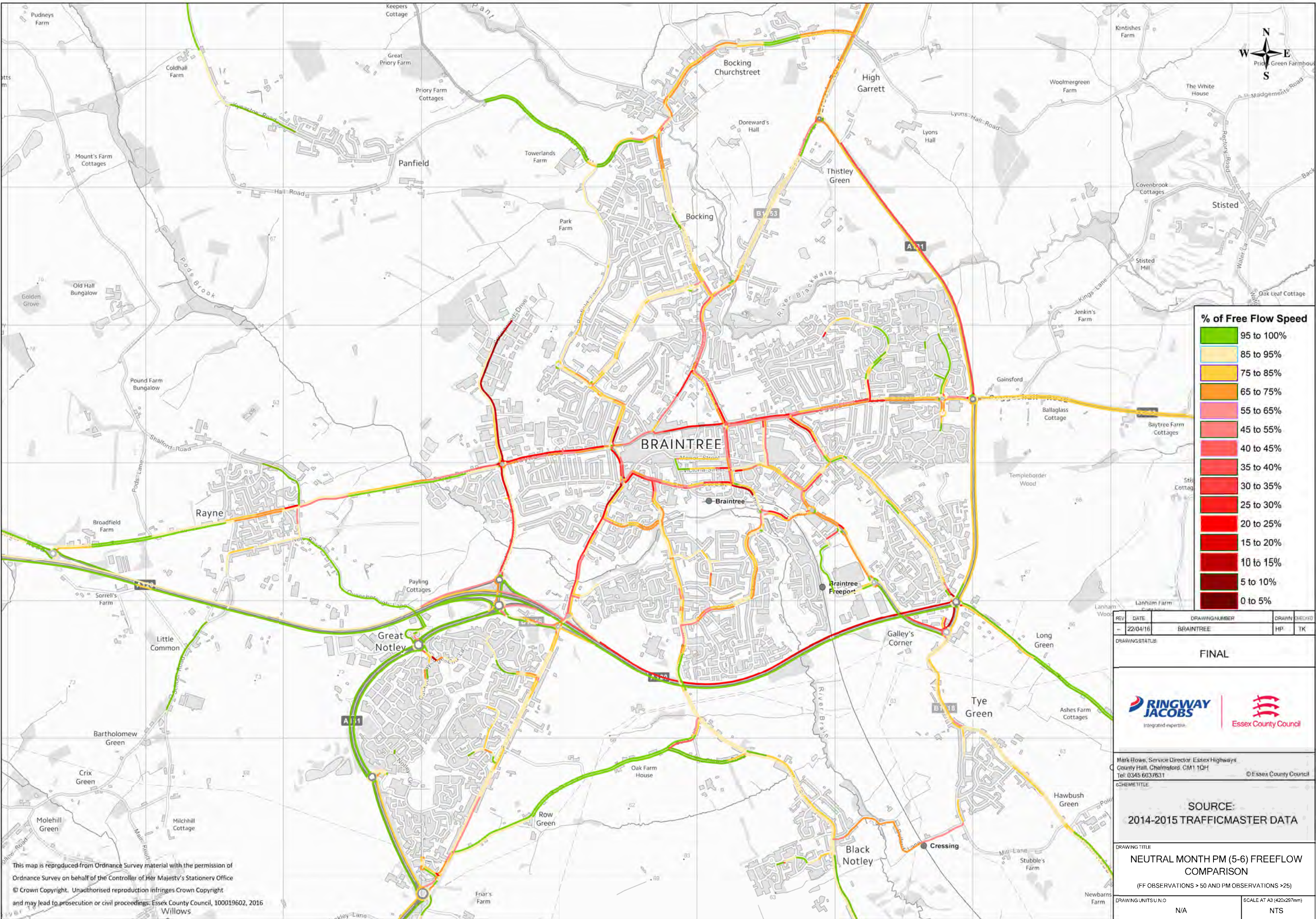
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PM (5-6) FREEFLOW COMPARISON 2013-2014 NEUTRAL MONTH AVERAGE				
DRAWING UNITS U.N.O. DIMENSIONS IN MILLIMETRES LEVELS IN METRES			SCALE AT A3 (420x297mm) AS SHOWN	

Appendix B2:
2014/15
Trafficmaster Plots



REV	DATE	DRAWING NUMBER	DRAWN	CHECKED
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SCHEME TITLE				
SOURCE: 2014-2015 TRAFFICMASTER DATA				
DRAWING TITLE				
NEUTRAL MONTH AM (8-9) FREEFLOW COMPARISON (FF OBSERVATIONS > 50 AND AM OBSERVATIONS > 25)				
DRAWING UNITS U.N.O.			SCALE AT A3 (420x597mm)	
N/A			NTS	

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-	22/04/16	BRAINTREE	HP	TK

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SOURCE:
2014-2015 TRAFFICMASTER DATA

DRAWING TITLE:
NEUTRAL MONTH PM (5-6) FREEFLOW
COMPARISON
(FF OBSERVATIONS > 50 AND PM OBSERVATIONS > 25)

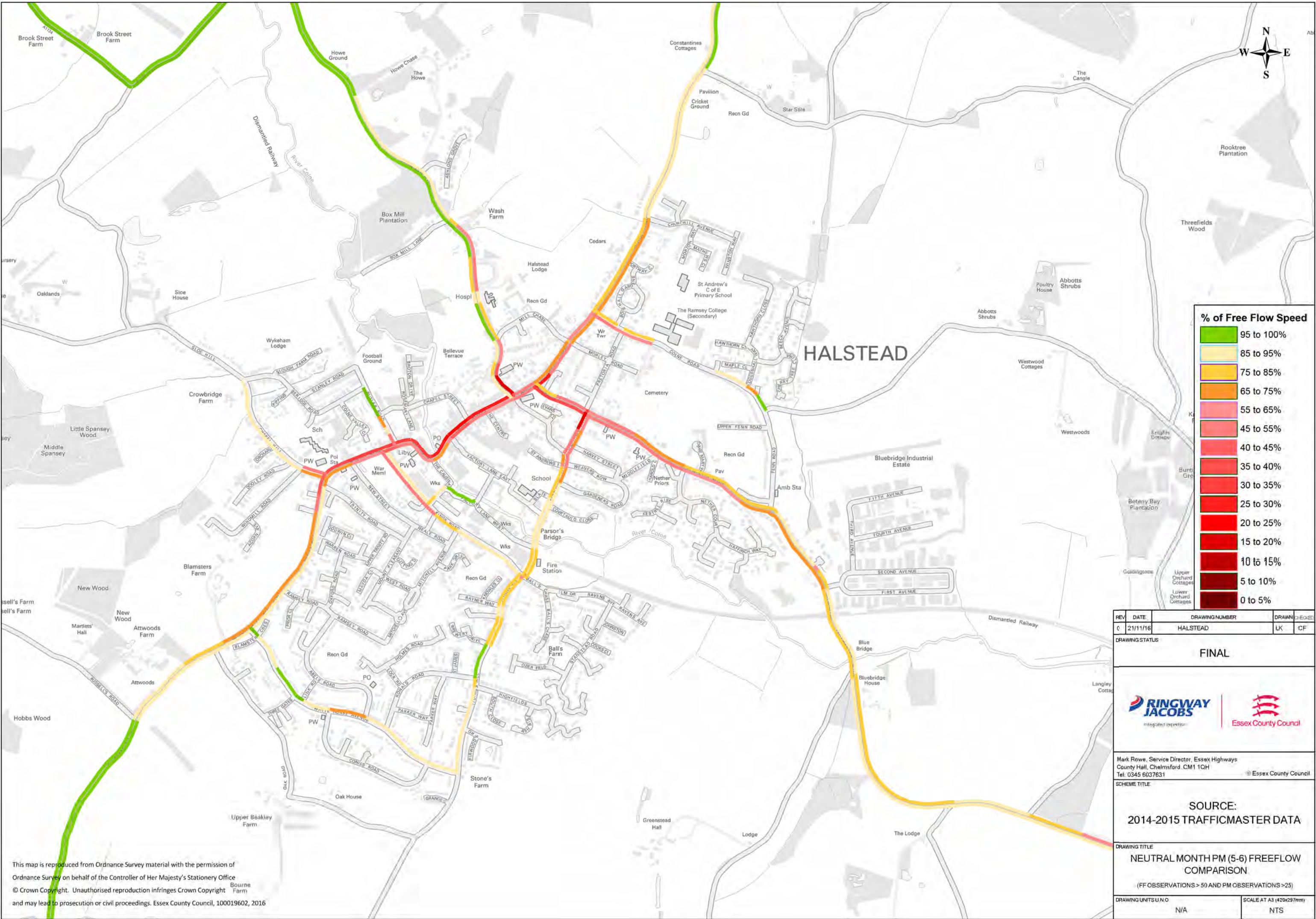
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Willows

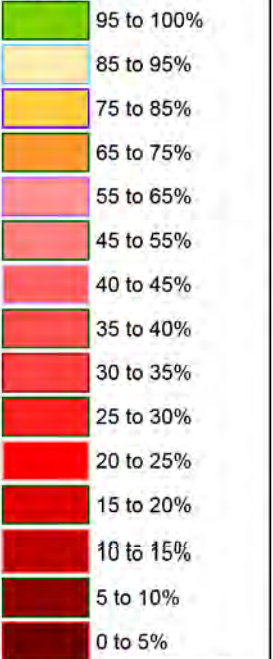


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FINAL				
 				
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SCHEME TITLE				
SOURCE: 2014-2015 TRAFFICMASTER DATA				
DRAWING TITLE				
NEUTRAL MONTH AM (8-9) FREEFLOW COMPARISON (FF OBSERVATIONS > 50 AND AM OBSERVATIONS > 25)				
DRAWING UNITS U.N.O.			SCALE AT A3 (420x297mm)	
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% of Free Flow Speed



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DRAWING STATUS

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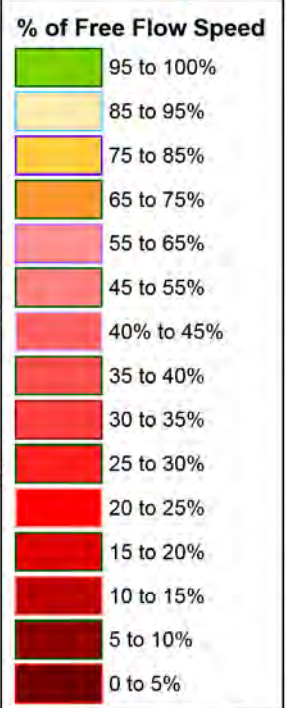
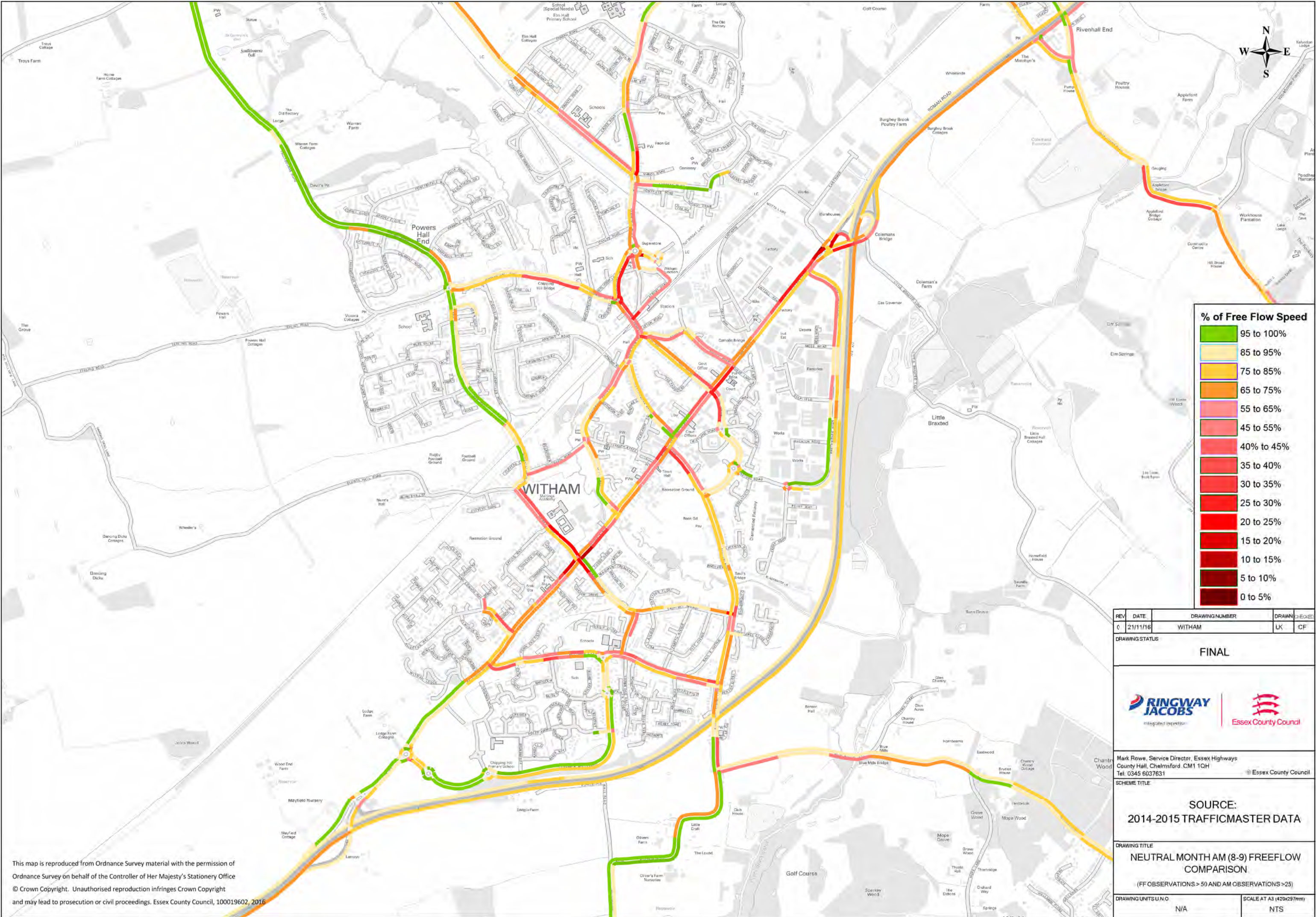
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SOURCE:
2014-2015 TRAFFICMASTER DATA

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COMPARISON
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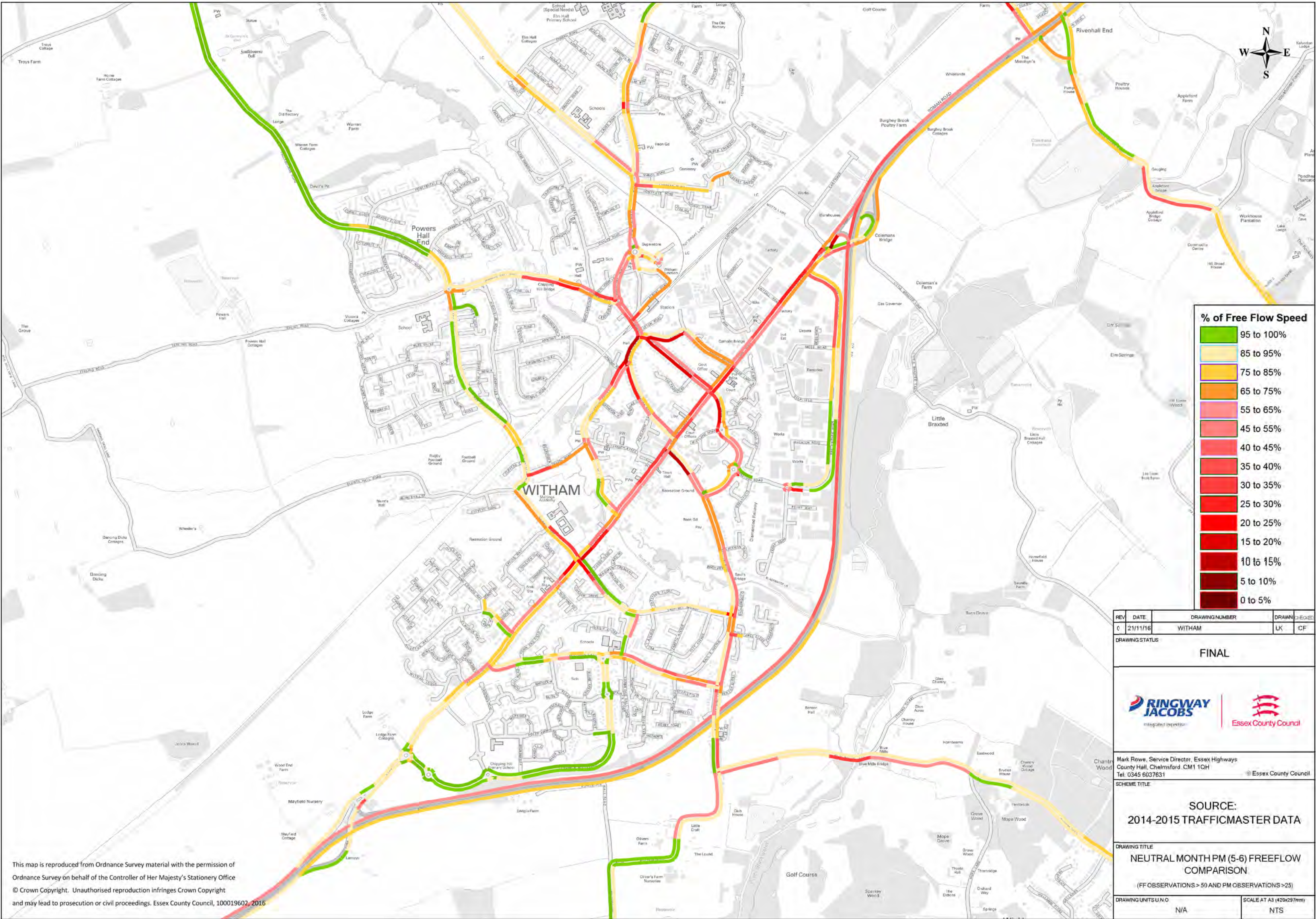
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SCALE AT A3 (420x297mm)
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SCHEME TITLE				
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DRAWING TITLE				
NEUTRAL MONTH AM (8-9) FREEFLOW COMPARISON (FF OBSERVATIONS > 50 AND AM OBSERVATIONS > 25)				
DRAWING UNITS U.N.O.			SCALE AT A3 (420x297mm)	
N/A			NTS	

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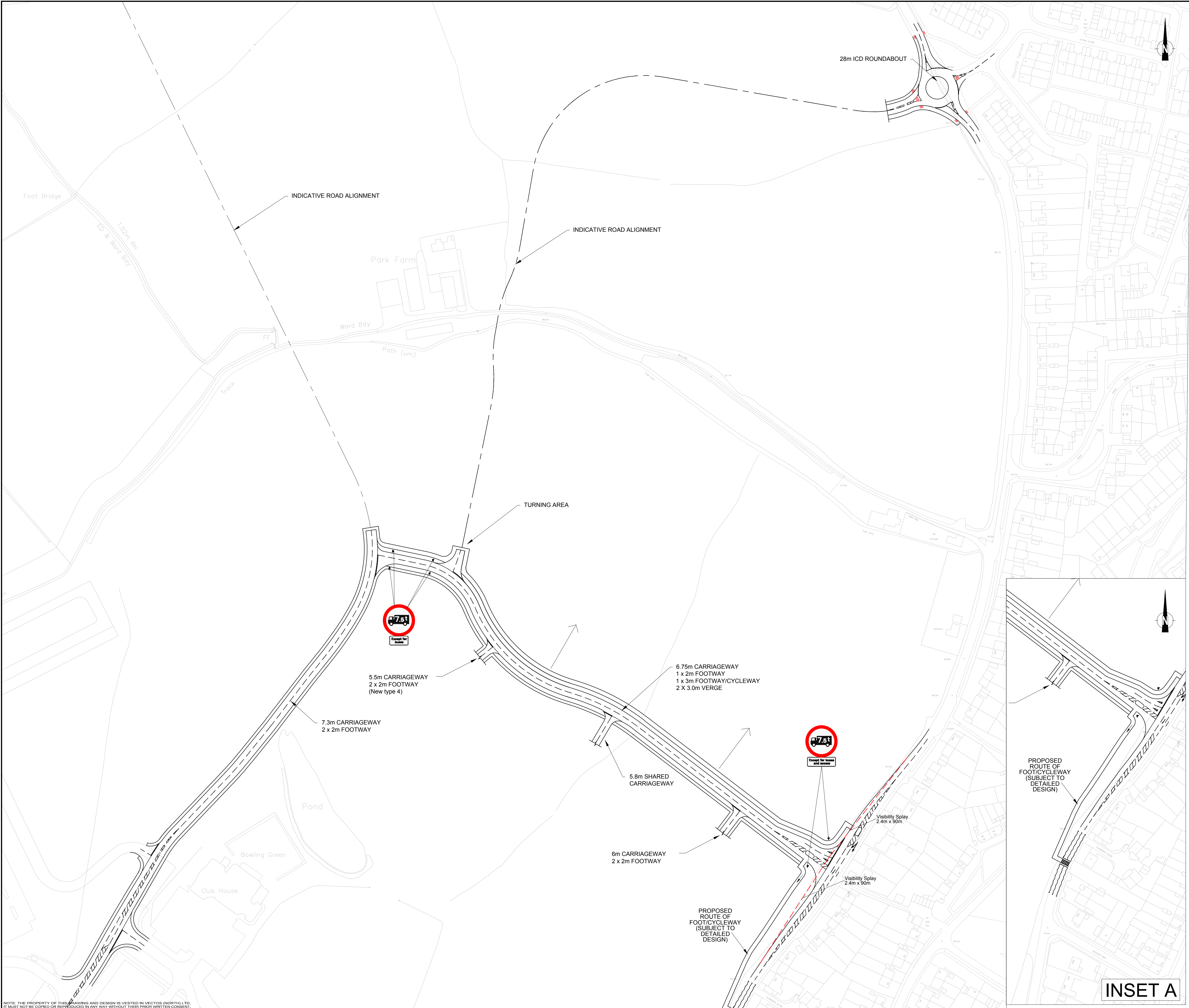


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SCHEME TITLE				
SOURCE: 2014-2015 TRAFFICMASTER DATA				
DRAWING TITLE				
NEUTRAL MONTH PM (5-6) FREEFLOW COMPARISON (FF OBSERVATIONS > 50 AND PM OBSERVATIONS > 25)				
DRAWING UNITS U.N.O.			SCALE AT A3 (420x297mm)	
N/A			NTS	

Appendix C:

Panfield Link Road



- Notes:
- 1. This is not a construction drawing and is intended for illustrative purposes only.
 - 2. White lining is indicative only.

LEGEND

← INDICATIVE ACCESS

L	Viewport adjusted	HF	PW	21.09.15
K	Proposed footway included	HF	PW	16.09.15
J	Footpath stub removed from access off Panfield Lane.	HS	AS	03.08.15
I	Most north-western access added.	HS	AS	03.08.15
H	Turning area amendments. Adjusted crossing area facilities.	PJ	HS	27.07.15
G	Turning area amendments.	HS	HS	29.06.15
F	Turning area off Springwood Drive removed.	HS	AS	09.06.15
E	Springwood Drive alignment amended.	HS	AS	01.06.15
D	Layout Amendments.	HS	AS	11.03.15
C	Layout Amendments.	HS	AS	05.03.15
B	Layout Amendments.	HF	AS	28.07.14
A	Accesses relocated.	HF	AS	24.07.14
REV.	DETAILS	DRAWN	CHECKED	DATE


CLIENT:
**Mersea Homes Ltd &
Hills Residential Ltd**

PROJECT:
Braintree

DRAWING TITLE:
General Arrangement

SCALES:
1:1250 at A1

DRAWN: HS CHECKED: AS DATE: 21.07.14

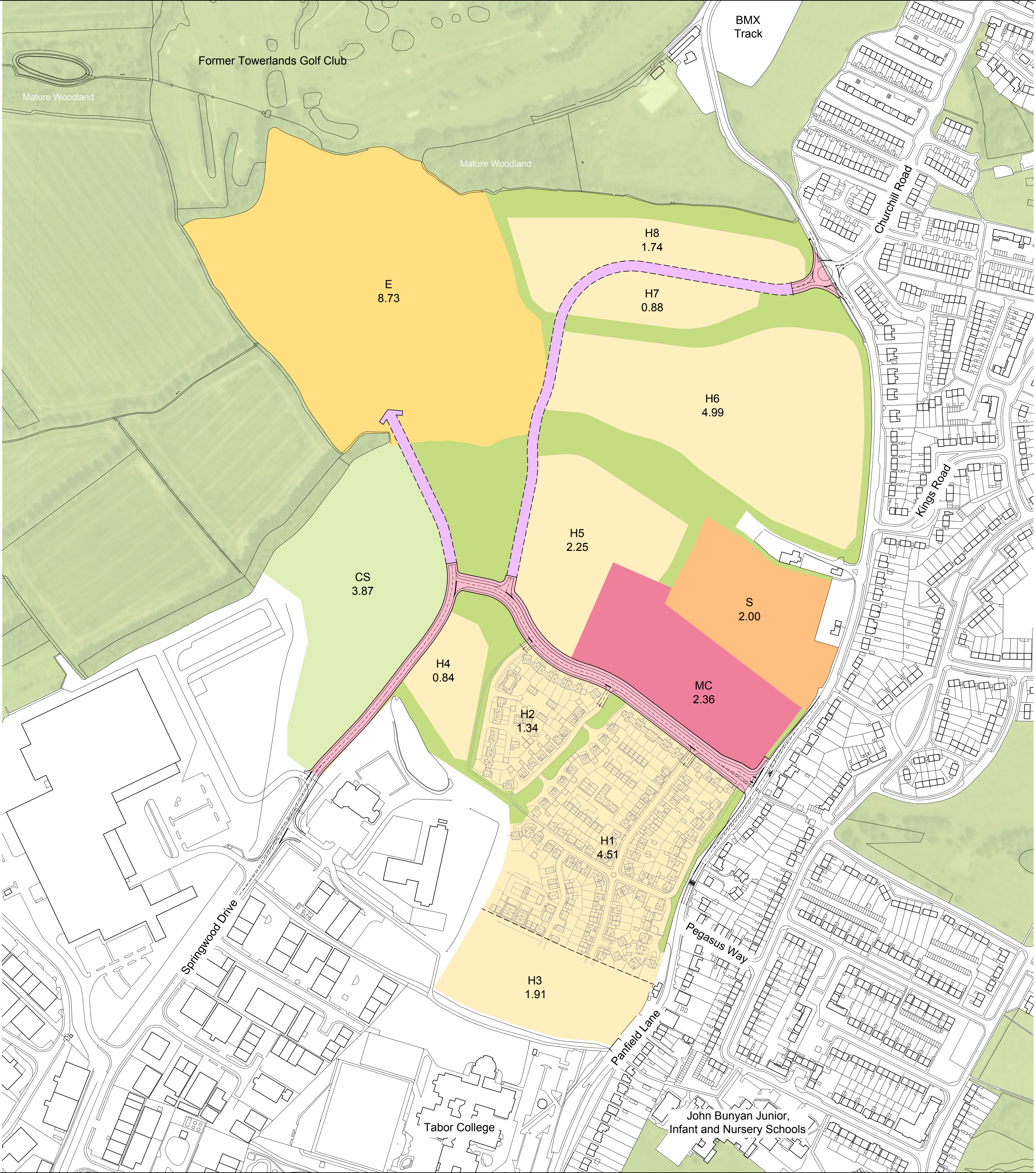

transport planning specialists

3rd Floor Oxford Place, 61 Oxford Street, Manchester, M1 6EQ
0161 228 1008 e: manchester@vectoros.co.uk

DRAWING NUMBER:
VN30215-200

REVISION:
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N

Scale 1:2500 @ A1 / 1:5000 @ A3

050100150200250m

E	Employment	8.73ha
MC	Mixed Use Centre	2.36ha
H	Residential	18.46ha
GI	GI	5.88ha
S	School Land	2.00ha
CS	Community Sports Land	3.87ha

* In each case, the land use zones indicated may also include land for access, parking and servicing in connection with that part of the development, land for surface water drainage, other infrastructure required in connection with that part of the development, and incidental green space / open space uses (including play space in respect of residential and green infrastructure areas).

Spine Road

Phase 1

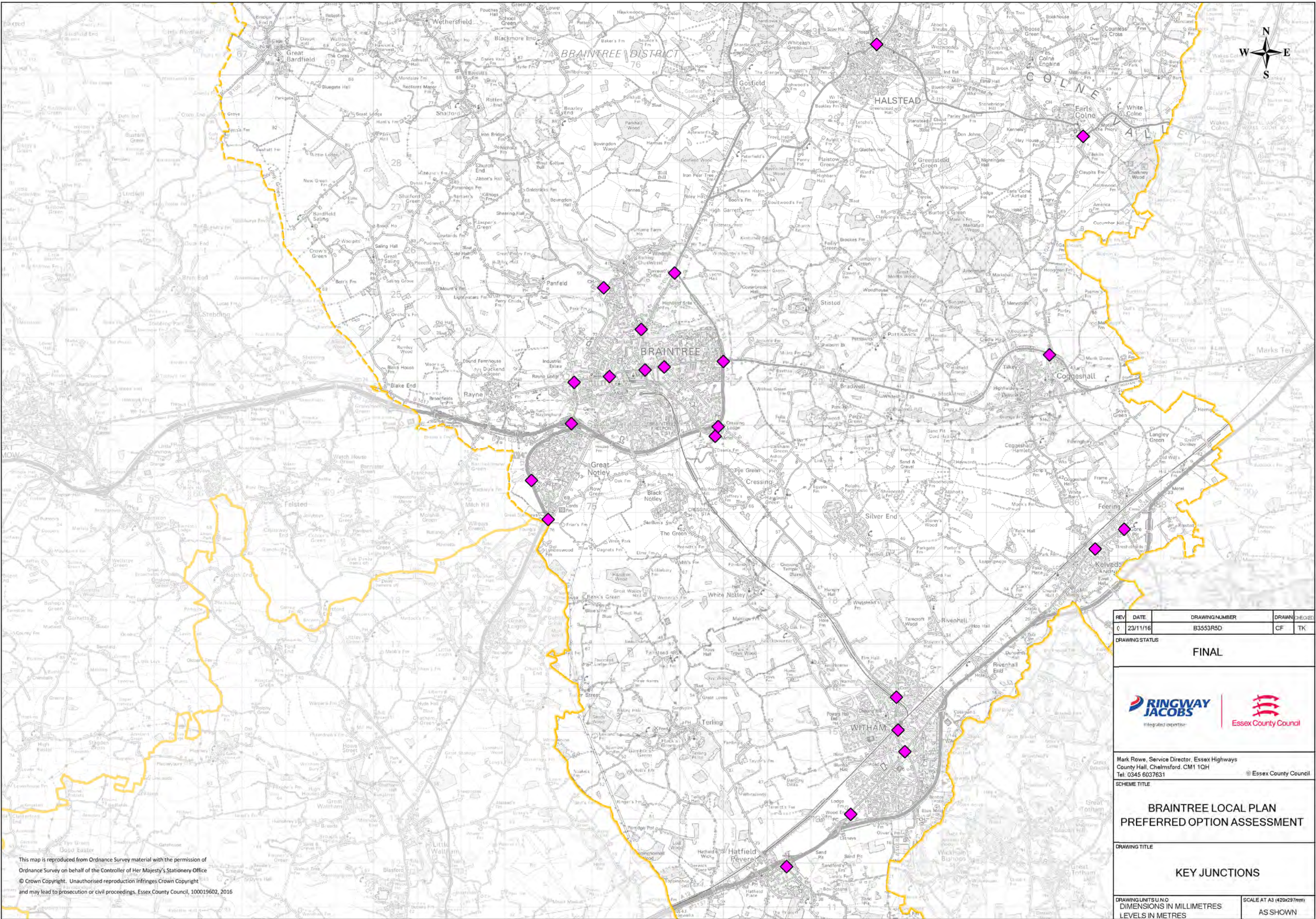
1.15ha

Future Phases(s) (Indicative Alignment)

Notes

All dimensions to be verified on site. Do not scale from this drawing.
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Appendix D: Key Junctions



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DRAWING STATUS	FINAL
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SCHEME TITLE

BRAINTREE LOCAL PLAN
PREFERRED OPTION ASSESSMENT

DRAWING TITLE

KEY JUNCTIONS

DRAWING UNITS DIMENSIONS IN MILLIMETRES LEVELS IN METRES	SCALE AT A3 (420x297mm) AS SHOWN
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Appendix E: Background Growth Factors

Junction Name	Junction Arm	Tempo Zone	Urban / Rural	Road Type	Tempo Local Factor AM	Tempo Local Factor PM	Traffic Growth Factor AM	Traffic Growth Factor PM
A131 Eastern Halstead	A131 Head Street	Braintree 004	Urban	Principal	1.004	1.003	1.092	1.090
	A1124 Colchester Road	Braintree 004	Urban	Principal	1.004	1.003	1.092	1.090
	HE Link	Braintree 004	Urban	Principal	1.004	1.003	1.092	1.090
A131 Western Halstead	HW Link	Braintree 004	Urban	Principal	1.004	1.003	1.092	1.090
	Parsonage Street	Braintree 004	Urban	Minor	1.004	1.003	1.099	1.097
	A131 High Street	Braintree 004	Urban	Principal	1.004	1.003	1.092	1.090
	A1124 Hedingham Road	Braintree 004	Urban	Principal	1.004	1.003	1.092	1.090
A120 Coggeshall	B1024 Colne Road	Braintree 014	Rural	Minor	0.990	0.992	1.093	1.095
	CR A120 E	Braintree 014	Rural	Trunk	0.990	0.992	1.116	1.118
	Colne Road	Braintree 014	Rural	Minor	0.990	0.992	1.093	1.095
	CR A120 W	Braintree 014	Rural	Trunk	0.990	0.992	1.116	1.118
Rye Mill Lane Kelvedon	Rye Mill Lane	Braintree 014	Rural	Minor	0.990	0.992	1.093	1.095
	B1024 London Road	Braintree 014	Rural	Minor	0.990	0.992	1.093	1.095
	B1023	Braintree 014	Rural	Minor	0.990	0.992	1.093	1.095
	B1024	Braintree 014	Rural	Minor	0.990	0.992	1.093	1.095
Rickstones Road Northern Witham	RN Rickstones Road	Braintree 015	Urban	Minor	1.007	1.007	1.102	1.102
	RN Link	Braintree 015	Urban	Minor	1.007	1.007	1.102	1.102
	RN Crossing Road	Braintree 015	Urban	Minor	1.007	1.007	1.102	1.102
Rickstones Road Southern Witham	RS Link	Braintree 015	Urban	Minor	1.007	1.007	1.102	1.102
	RS Cypress Road	Braintree 015	Urban	Minor	1.007	1.007	1.102	1.102
	RS B1018	Braintree 015	Urban	Minor	1.007	1.007	1.102	1.102
Chipping Hill Witham	Chipping Hill	Braintree 017	Urban	Minor	1.002	1.006	1.097	1.101
	CH The Avenue	Braintree 017	Urban	Minor	1.002	1.006	1.097	1.101

Junction Name	Junction Arm	Tempo Zone	Urban / Rural	Road Type	Tempo Local Factor AM	Tempo Local Factor PM	Traffic Growth Factor AM	Traffic Growth Factor PM
	CH Collingwood Road	Braintree 017	Urban	Minor	1.002	1.006	1.097	1.101
High Street Witham	B1389 NE	Braintree 017	Urban	Minor	1.002	1.006	1.097	1.101
	Maldon Road	Braintree 017	Urban	Minor	1.002	1.006	1.097	1.101
	B1839 SW	Braintree 017	Urban	Minor	1.002	1.006	1.097	1.101
	HS Collingwood Road	Braintree 017	Urban	Minor	1.002	1.006	1.097	1.101
Gershwin Blvd Witham	B1839 Hatfield Road	Braintree 017	Urban	Minor	1.002	1.006	1.097	1.101
	Gershwin Blvd	Braintree 017	Urban	Minor	1.002	1.006	1.097	1.101
	B1389 SW	Braintree 017	Urban	Minor	1.002	1.006	1.097	1.101
	New Arm	N/A	N/A	N/A	N/A	N/A	N/A	N/A
The Street Hatfield Peverel	The Street E	Braintree 018	Rural	Minor	0.982	0.985	1.084	1.087
	B1019 Maldon Road	Braintree 018	Rural	Minor	0.982	0.985	1.084	1.087
	The Street W	Braintree 018	Rural	Minor	0.982	0.985	1.084	1.087
Great Notley Southernmost junction	GN A131 N	Braintree 013	Urban	Principal	0.983	0.976	1.069	1.061
	GN London Road N	Braintree 013	Urban	Minor	0.983	0.976	1.076	1.068
	GN London Road S	Braintree 013	Urban	Minor	0.983	0.976	1.076	1.068
	GN A131 S	Braintree 013	Urban	Principal	0.983	0.976	1.069	1.061
Cuckoo Way Great Notley	CW A131 N	Braintree 013	Urban	Principal	0.983	0.976	1.069	1.061
	Cuckoo Way	Braintree 013	Urban	Minor	0.983	0.976	1.076	1.068
	CW A131 S	Braintree 013	Urban	Principal	0.983	0.976	1.069	1.061
Panners Northern Braintree	PB N B1256	Braintree 010	Urban	Minor	0.976	0.980	1.068	1.072
	PB N A120 E	Braintree 010	Urban	Trunk	0.976	0.980	1.077	1.081
	PB Link N	Braintree 010	Urban	Principal	0.976	0.980	1.062	1.065
	PB A120 W	Braintree 010	Urban	Trunk	0.976	0.980	1.077	1.081
	PB Link S	Braintree 010	Urban	Principal	0.976	0.980	1.062	1.065

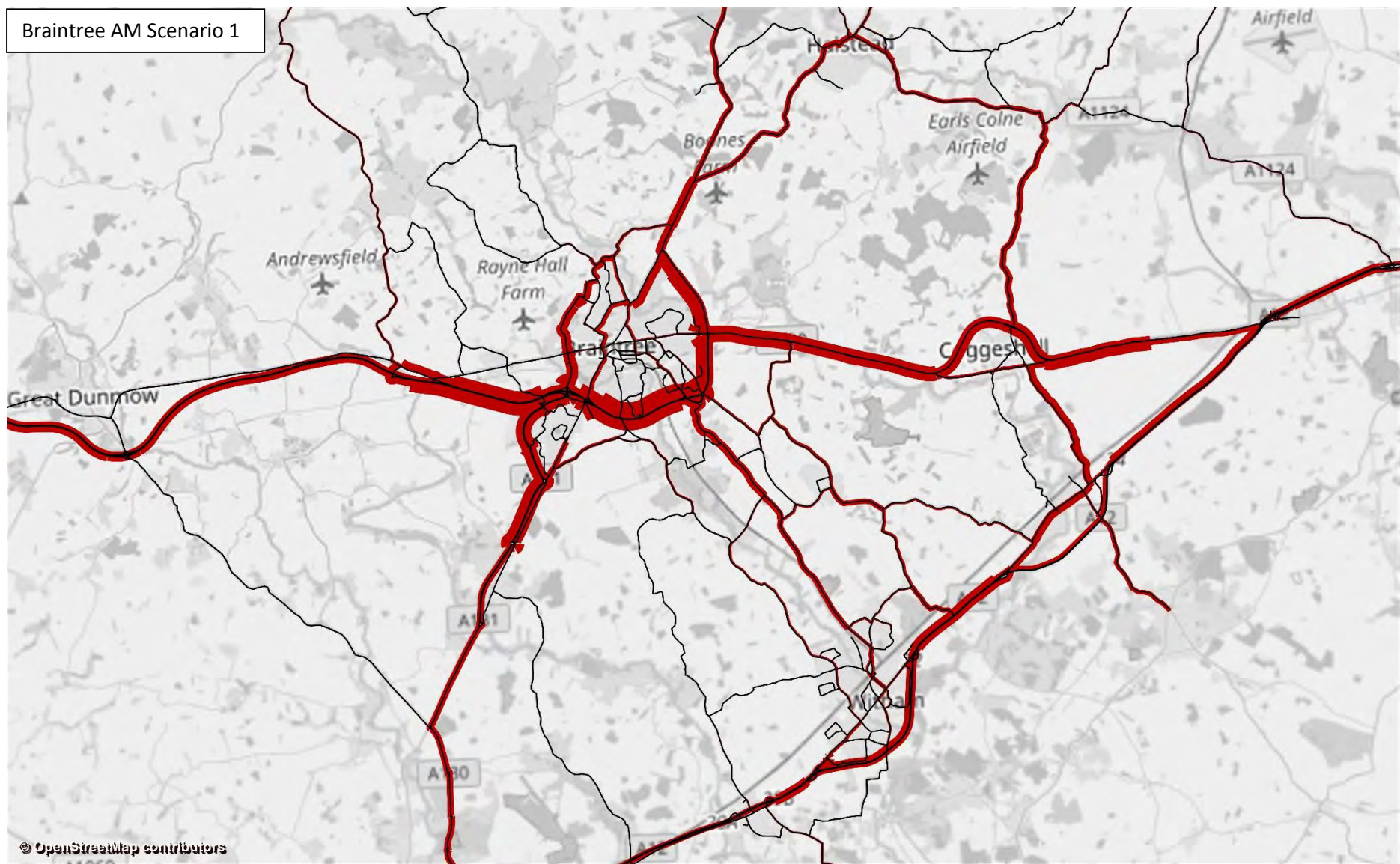
Junction Name	Junction Arm	Tempo Zone	Urban / Rural	Road Type	Tempo Local Factor AM	Tempo Local Factor PM	Traffic Growth Factor AM	Traffic Growth Factor PM
Panners Southern Braintree	PB S A120 E	Braintree 010	Urban	Trunk	0.976	0.980	1.077	1.081
	PB S B1256	Braintree 010	Urban	Minor	0.976	0.980	1.068	1.072
	PB A131 S	Braintree 010	Urban	Principal	0.976	0.980	1.062	1.065
Springwood Drive Braintree	Springwood Drive	Braintree 008	Urban	Minor	0.997	0.997	1.091	1.091
	SW B1256 Rayne Road	Braintree 008	Urban	Minor	0.997	0.997	1.091	1.091
	SW Pods Brook Road	Braintree 008	Urban	Minor	0.997	0.997	1.091	1.091
	SW Rayne Road	Braintree 008	Urban	Minor	0.997	0.997	1.091	1.091
Pierrefitte Way Braintree	PW Aetheric Road	Braintree 009	Urban	Minor	1.010	1.006	1.105	1.101
	PW B1256 E	Braintree 009	Urban	Minor	1.010	1.006	1.105	1.101
	PW B1256 Pierrefitte Way	Braintree 009	Urban	Minor	1.010	1.006	1.105	1.101
	PW B1256 Rayne Road	Braintree 009	Urban	Minor	1.010	1.006	1.105	1.101
Church Street Braintree	B1053 Church Street	Braintree 009	Urban	Minor	1.010	1.006	1.105	1.101
	Convent Hill	Braintree 009	Urban	Minor	1.010	1.006	1.105	1.101
	Bradford Street	Braintree 009	Urban	Minor	1.010	1.006	1.105	1.101
Broad Road Braintree	BR A131 N	Braintree 007	Urban	Principal	0.976	0.974	1.061	1.059
	BR A131 S	Braintree 007	Urban	Principal	0.976	0.974	1.061	1.059
	Broad Road	Braintree 007	Urban	Minor	0.976	0.974	1.067	1.065
Marks Farm	MF A131 N	Braintree 007	Urban	Principal	0.976	0.974	1.061	1.059
	MF A120 E	Braintree 007	Urban	Trunk	0.976	0.974	1.076	1.074
	MF A120 S	Braintree 007	Urban	Trunk	0.976	0.974	1.076	1.074
	MF Coggeshall Road	Braintree 007	Urban	Minor	0.976	0.974	1.067	1.065
Courtauld Road North	Courtauld Road North	Braintree 009	Urban	Minor	1.010	1.006	1.105	1.101
	CR Link	Braintree 009	Urban	Minor	1.010	1.006	1.105	1.101

Junction Name	Junction Arm	Tempo Zone	Urban / Rural	Road Type	Tempo Local Factor AM	Tempo Local Factor PM	Traffic Growth Factor AM	Traffic Growth Factor PM
	CRN Coggeshall Road	Braintree 009	Urban	Minor	1.010	1.006	1.105	1.101
Courtauld Road South	CRS Link	Braintree 009	Urban	Minor	1.010	1.006	1.105	1.101
	Coggeshall Road	Braintree 009	Urban	Minor	1.010	1.006	1.105	1.101
	Railway St	Braintree 009	Urban	Minor	1.010	1.006	1.105	1.101
Cressing Road	Marlborough Road	Braintree 009	Urban	Minor	1.010	1.006	1.105	1.101
	CR Coggeshall Road E	Braintree 009	Urban	Minor	1.010	1.006	1.105	1.101
	Cressing Road	Braintree 009	Urban	Minor	1.010	1.006	1.105	1.101
	CR Coggeshall Road W	Braintree 009	Urban	Minor	1.010	1.006	1.105	1.101
Deanery Hill	Deanery Hill W	Braintree 007	Urban	Minor	0.976	0.974	1.067	1.065
	Deanery Hill E	Braintree 007	Urban	Minor	0.976	0.974	1.067	1.065
	Panfield Lane	Braintree 007	Urban	Minor	0.976	0.974	1.067	1.065
A1124 Church Hill	A1124 Church Hill	Braintree 006	Rural	Minor	0.986	0.993	1.088	1.096
	Upper Holt St	Braintree 006	Rural	Minor	0.986	0.993	1.088	1.096
	B1024	Braintree 006	Rural	Minor	0.986	0.993	1.088	1.096
Feering Hill	Feering Hill	Braintree 014	Rural	Minor	0.990	0.992	1.093	1.095
	Swan St	Braintree 014	Rural	Minor	0.990	0.992	1.093	1.095
	High St	Braintree 014	Rural	Minor	0.990	0.992	1.093	1.095
	Station Rd	Braintree 014	Rural	Minor	0.990	0.992	1.093	1.095

Appendix F:

VISUM Graphics

Braintree AM Scenario 1



Braintree PM Scenario 1



Braintree AM Scenario 2



Braintree PM Scenario 2



Braintree AM Scenario 3



Braintree PM Scenario 3

