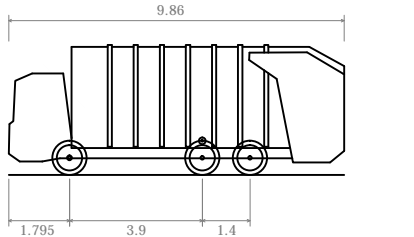


APPENDIX G: Swept path analysis



Large Refuse Vehicle (3 axle)
 Overall Length 9.860m
 Overall Width 2.450m
 Overall Body Height 3.814m
 Min Body Ground Clearance 0.366m
 Max Track Width 2.450m
 Lock to Lock Time 4.00 sec
 Kerb to Kerb Turning Radius 9.500m

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 bristoloffice@mayerbrown.co.uk
 www.mayerbrown.co.uk



client **BARRATT HOMES**
 project **LAND OFF B4265, BOVERTON**

title **SWEPT PATH ANALYSIS
 9.8M REFUSE VEHICLE
 BASED ON SITE LAYOUT REVISION D**

scale 1:1000 @ A3 drawn by RB checked by AP
 date AUGUST 2014 cad file 1-02.DWG
 drawing number **B/BWBOVERTON.1/02** rev. **A**

APPENDIX H: Traffic flow diagram

	Observed 2014 Flows	Base 2019 Flows	Generated Trip Distribution	Generated Trips	Forecast 2019 Flows
AM Peak 08:00- 09:00	<p>Observed 2014 AM Peak flow diagram showing traffic on B4265 West and B4265 East. Westbound flow is 402 (50 HGV) and eastbound flow is 345 (41 HGV).</p>	<p>Base 2019 AM Peak flow diagram showing traffic on B4265 West and B4265 East. Westbound flow is 430 and eastbound flow is 369. Tempro Growth Factor = 1.0689.</p>	<p>Generated Trip Distribution AM Peak diagram showing 54% of trips from B4265 West to the SITE and 46% from the SITE to B4265 East.</p>	<p>Generated Trips AM Peak diagram showing 5 trips from B4265 West to the SITE, 20 trips from the SITE to B4265 East, and 4 arrivals/departures at the SITE. Arrivals: 9, Departures: 43.</p>	<p>Forecast 2019 AM Peak flow diagram showing traffic on B4265 West and B4265 East. Westbound flow is 430 (5 HGV) and eastbound flow is 369 (4 HGV).</p>
PM Peak 17:00- 18:00	<p>Observed 2014 PM Peak flow diagram showing traffic on B4265 West and B4265 East. Westbound flow is 377 (20 HGV) and eastbound flow is 517 (19 HGV).</p>	<p>Base 2019 PM Peak flow diagram showing traffic on B4265 West and B4265 East. Westbound flow is 403 and eastbound flow is 553. Tempro Growth Factor = 1.0695.</p>	<p>Generated Trip Distribution PM Peak diagram showing 42% of trips from B4265 West to the SITE and 58% from the SITE to B4265 East.</p>	<p>Generated Trips PM Peak diagram showing 16 trips from B4265 West to the SITE, 12 trips from the SITE to B4265 East, and 22 arrivals/departures at the SITE. Arrivals: 38, Departures: 20.</p>	<p>Forecast 2019 PM Peak flow diagram showing traffic on B4265 West and B4265 East. Westbound flow is 403 (16 HGV) and eastbound flow is 553 (12 HGV).</p>
		Client: Barratt Homes	Title: Traffic Flows		Date: July 2014
		Project: Land Off B4265, Boverton			Flow Diagram Number: TFD01

APPENDIX I: TRICS Output

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL
 Category : A - HOUSES PRIVATELY OWNED
 VEHICLES

Filtering Stage 2 selection:

Parameter: Number of dwellings
 Actual Range: 10 to 123 (units:)
 Range Selected by User: 10 to 130 (units:)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/05 to 07/10/13

Selected survey days:

Monday	5 days
Tuesday	6 days
Wednesday	2 days
Thursday	3 days
Friday	3 days

Selected survey types:

Manual count	19 days
Directional ATC Count	0 days

Selected Locations:

Edge of Town	19
--------------	----

Selected Location Sub Categories:

Residential Zone	10
Out of Town	1
No Sub Category	8

Filtering Stage 3 selection:

Use Class:

C3	19 days
----	---------

Population within 1 mile:

1,001 to 5,000	4 days
5,001 to 10,000	6 days
10,001 to 15,000	6 days
15,001 to 20,000	2 days
20,001 to 25,000	1 days

Population within 5 miles:

5,000 or Less	1 days
5,001 to 25,000	3 days
25,001 to 50,000	4 days
50,001 to 75,000	2 days
75,001 to 100,000	4 days
100,001 to 125,000	3 days
125,001 to 250,000	1 days
250,001 to 500,000	1 days

Car ownership within 5 miles:

0.6 to 1.0	7 days
1.1 to 1.5	12 days

Filtering Stage 3 selection (Cont.):

Travel Plan:

Yes

1 days

No

18 days

LIST OF SITES relevant to selection parameters

1	CB-03-A-03 SEMI DETACHED HAWKSHEAD AVENUE WORKINGTON Edge of Town Residential Zone Total Number of dwellings: 40 Survey date: THURSDAY 20/11/08	CUMBRIA	Survey Type: MANUAL
2	CB-03-A-04 SEMI DETACHED MOORCLOSE ROAD SALTERBACK WORKINGTON Edge of Town No Sub Category Total Number of dwellings: 82 Survey date: FRIDAY 24/04/09	CUMBRIA	Survey Type: MANUAL
3	CH-03-A-05 DETACHED SYDNEY ROAD SYDNEY CREWE Edge of Town Residential Zone Total Number of dwellings: 17 Survey date: TUESDAY 14/10/08	CESHIRE	Survey Type: MANUAL
4	CV-03-A-01 DETACHED DUBLIN ROAD CAVAN Edge of Town No Sub Category Total Number of dwellings: 37 Survey date: TUESDAY 18/12/12	CAVAN	Survey Type: MANUAL
5	EA-03-A-01 DETACHED TALISKER AVENUE KILMARNOCK Edge of Town Residential Zone Total Number of dwellings: 39 Survey date: THURSDAY 05/06/08	EAST AYRSHIRE	Survey Type: MANUAL
6	ES-03-A-02 PRIVATE HOUSING SOUTH COAST ROAD PEACEHAVEN Edge of Town Residential Zone Total Number of dwellings: 37 Survey date: FRIDAY 18/11/11	EAST SUSSEX	Survey Type: MANUAL
7	GA-03-A-01 SEMI DETACHED HEADFORD ROAD KNOCKAYARRAGH GALWAY Edge of Town No Sub Category Total Number of dwellings: 123 Survey date: WEDNESDAY 20/09/06	GALWAY	Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

8	HI-03-A-11	BUNGALOWS		HIGHLAND
	STEVENSON ROAD			
	INSHES			
	INVERNESS			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		85	
	Survey date:	MONDAY	05/06/06	Survey Type: MANUAL
9	KK-03-A-03	MIXED HOUSING		KILKENNY
	FRESHFORD ROAD			
	FRIARSINCH			
	KILKENNY			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		70	
	Survey date:	WEDNESDAY	26/11/08	Survey Type: MANUAL
10	LC-03-A-22	BUNGALOWS		LANCASHIRE
	CLIFTON DRIVE NORTH			
	BLACKPOOL			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		98	
	Survey date:	TUESDAY	18/10/05	Survey Type: MANUAL
11	LE-03-A-01	DETACHED		LEICESTERSHIRE
	REDWOOD AVENUE			
	MELTON MOWBRAY			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		11	
	Survey date:	TUESDAY	03/05/05	Survey Type: MANUAL
12	NY-03-A-05	HOUSES AND FLATS		NORTH YORKSHIRE
	BOROUGHBRIDGE ROAD			
	RIPON			
	Edge of Town			
	No Sub Category			
	Total Number of dwellings:		71	
	Survey date:	MONDAY	22/09/08	Survey Type: MANUAL
13	NY-03-A-07	DETACHED & SEMI DET.		NORTH YORKSHIRE
	CRAVEN WAY			
	BOROUGHBRIDGE			
	Edge of Town			
	No Sub Category			
	Total Number of dwellings:		23	
	Survey date:	TUESDAY	18/10/11	Survey Type: MANUAL
14	RO-03-A-01	MIXED HOUSES		ROSCOMMON
	GALWAY ROAD			
	ROSCOMMON			
	Edge of Town			
	No Sub Category			
	Total Number of dwellings:		80	
	Survey date:	THURSDAY	07/05/09	Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

15	SF-03-A-03	MIXED HOUSES		SUFFOLK
	BARTON HILL			
	FORNHAM ST MARTIN			
	BURY ST EDMUNDS			
	Edge of Town			
	Out of Town			
	Total Number of dwellings:		101	
	Survey date: MONDAY		15/05/06	Survey Type: MANUAL
16	SH-03-A-03	DETACHED		SHROPSHIRE
	SOMERBY DRIVE			
	BICTON HEATH			
	SHREWSBURY			
	Edge of Town			
	No Sub Category			
	Total Number of dwellings:		10	
	Survey date: FRIDAY		26/06/09	Survey Type: MANUAL
17	WL-03-A-01	SEMI D./TERRACED W.	BASSETT	WILTSHIRE
	MAPLE DRIVE			
	WOOTTON BASSETT			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		99	
	Survey date: MONDAY		02/10/06	Survey Type: MANUAL
18	WM-03-A-03	MIXED HOUSING		WEST MIDLANDS
	BASELEY WAY			
	ROWLEYS GREEN			
	COVENTRY			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		84	
	Survey date: MONDAY		24/09/07	Survey Type: MANUAL
19	WO-03-A-02	SEMI DETACHED		WORCESTERSHIRE
	MEADOWHILL ROAD			
	REDDITCH			
	Edge of Town			
	No Sub Category			
	Total Number of dwellings:		48	
	Survey date: TUESDAY		02/05/06	Survey Type: MANUAL

Mayer Brown Victoria Street Bristol

Licence No: 807403

RANK ORDER for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED
VEHICLES

Ranking Type: TOTALS Time Range: 08:00-09:00

WARNING: Using 85th and 15th percentile highlighted trip rates in data sets of under
20 surveys is not recommended by TRICS and may be misleading.

15th Percentile = No. 16

85th Percentile = No. 4

Median Values

Arrivals: 0.231

Departures: 0.359

Totals: 0.590

Mean Values

Arrivals: 0.168

Departures: 0.456

Totals: 0.625

Rank	Site-Ref	Description	Town/City	Area	DWELLS	Day	Date	Trip Rate (Sorted by Totals)			Travel Plan
								Arrivals	Departures	Totals	
1	KK-03-A-03	MIXED HOUSING	KILKENNY	KILKENNY	70	Wed	26/11/08	0.314	0.657	0.971	
2	CV-03-A-01	DETACHED	CAVAN	CAVAN	37	Tue	18/12/12	0.243	0.595	0.838	
3	CH-03-A-05	DETACHED	CREWE	CHESHIRE	17	Tue	14/10/08	0.235	0.588	0.823	
4	GA-03-A-01	SEMI DETACHED	GALWAY	GALWAY	123	Wed	20/09/06	0.138	0.667	0.805	
5	WM-03-A-03	MIXED HOUSING	COVENTRY	WEST MIDLANDS	84	Mon	24/09/07	0.321	0.405	0.726	
6	SH-03-A-03	DETACHED	SHREWSBURY	SHROPSHIRE	10	Fri	26/06/09	0.200	0.500	0.700	
7	CB-03-A-03	SEMI DETACHED	WORKINGTON	CUMBRIA	40	Thu	20/11/08	0.225	0.450	0.675	
8	SF-03-A-03	MIXED HOUSES	BURY ST EDMUNDS	SUFFOLK	101	Mon	15/05/06	0.109	0.554	0.663	
9	RO-03-A-01	MIXED HOUSES	ROSCOMMON	ROSCOMMON	80	Thu	07/05/09	0.150	0.475	0.625	
10	EA-03-A-01	DETACHED	KILMARNOCK	EAST AYRSHIRE	39	Thu	05/06/08	0.231	0.359	0.590	
11	NY-03-A-05	HOUSES AND FLA	RIPON	NORTH YORKSHIRE	71	Mon	22/09/08	0.113	0.465	0.578	
12	HI-03-A-11	BUNGALOWS	INVERNESS	HIGHLAND	85	Mon	05/06/06	0.129	0.424	0.553	
13	CB-03-A-04	SEMI DETACHED	WORKINGTON	CUMBRIA	82	Fri	24/04/09	0.183	0.366	0.549	
14	LC-03-A-22	BUNGALOWS	BLACKPOOL	LANCASHIRE	98	Tue	18/10/05	0.173	0.337	0.510	
15	ES-03-A-02	PRIVATE HOUSIN	PEACEHAVEN	EAST SUSSEX	37	Fri	18/11/11	0.081	0.405	0.486	Yes
16	NY-03-A-07	DETACHED & SEM	BOROUGHBRIDGE	NORTH YORKSHIRE	23	Tue	18/10/11	0.087	0.391	0.478	
17	LE-03-A-01	DETACHED	MELTON MOWBRAY	LEICESTERSHIRE	11	Tue	03/05/05	0.091	0.364	0.455	
18	WO-03-A-02	SEMI DETACHED	REDDITCH	WORCESTERSHIRE	48	Tue	02/05/06	0.104	0.333	0.437	
19	WL-03-A-01	SEMI D./TERRAC	WOOTTON BASSETT	WILTSHIRE	99	Mon	02/10/06	0.071	0.333	0.404	

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL
 Category : A - HOUSES PRIVATELY OWNED
 VEHICLES

Filtering Stage 2 selection:

Parameter: Number of dwellings
 Actual Range: 10 to 123 (units:)
 Range Selected by User: 10 to 130 (units:)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/05 to 07/10/13

Selected survey days:

Monday	5 days
Tuesday	6 days
Wednesday	2 days
Thursday	3 days
Friday	3 days

Selected survey types:

Manual count	19 days
Directional ATC Count	0 days

Selected Locations:

Edge of Town	19
--------------	----

Selected Location Sub Categories:

Residential Zone	10
Out of Town	1
No Sub Category	8

Filtering Stage 3 selection:

Use Class:

C3	19 days
----	---------

Population within 1 mile:

1,001 to 5,000	4 days
5,001 to 10,000	6 days
10,001 to 15,000	6 days
15,001 to 20,000	2 days
20,001 to 25,000	1 days

Population within 5 miles:

5,000 or Less	1 days
5,001 to 25,000	3 days
25,001 to 50,000	4 days
50,001 to 75,000	2 days
75,001 to 100,000	4 days
100,001 to 125,000	3 days
125,001 to 250,000	1 days
250,001 to 500,000	1 days

Car ownership within 5 miles:

0.6 to 1.0	7 days
1.1 to 1.5	12 days

Filtering Stage 3 selection (Cont.):

Travel Plan:

Yes

1 days

No

18 days

LIST OF SITES relevant to selection parameters

1	CB-03-A-03 SEMI DETACHED HAWKSHEAD AVENUE WORKINGTON Edge of Town Residential Zone Total Number of dwellings: 40 Survey date: THURSDAY 20/11/08	CUMBRIA	Survey Type: MANUAL
2	CB-03-A-04 SEMI DETACHED MOORCLOSE ROAD SALTERBACK WORKINGTON Edge of Town No Sub Category Total Number of dwellings: 82 Survey date: FRIDAY 24/04/09	CUMBRIA	Survey Type: MANUAL
3	CH-03-A-05 DETACHED SYDNEY ROAD SYDNEY CREWE Edge of Town Residential Zone Total Number of dwellings: 17 Survey date: TUESDAY 14/10/08	CESHIRE	Survey Type: MANUAL
4	CV-03-A-01 DETACHED DUBLIN ROAD CAVAN Edge of Town No Sub Category Total Number of dwellings: 37 Survey date: TUESDAY 18/12/12	CAVAN	Survey Type: MANUAL
5	EA-03-A-01 DETACHED TALISKER AVENUE KILMARNOCK Edge of Town Residential Zone Total Number of dwellings: 39 Survey date: THURSDAY 05/06/08	EAST AYRSHIRE	Survey Type: MANUAL
6	ES-03-A-02 PRIVATE HOUSING SOUTH COAST ROAD PEACEHAVEN Edge of Town Residential Zone Total Number of dwellings: 37 Survey date: FRIDAY 18/11/11	EAST SUSSEX	Survey Type: MANUAL
7	GA-03-A-01 SEMI DETACHED HEADFORD ROAD KNOCKAYARRAGH GALWAY Edge of Town No Sub Category Total Number of dwellings: 123 Survey date: WEDNESDAY 20/09/06	GALWAY	Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

8	HI-03-A-11	BUNGALOWS		HIGHLAND
	STEVENSON ROAD			
	INSHES			
	INVERNESS			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		85	
	Survey date:	MONDAY	05/06/06	Survey Type: MANUAL
9	KK-03-A-03	MIXED HOUSING		KILKENNY
	FRESHFORD ROAD			
	FRIARSINCH			
	KILKENNY			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		70	
	Survey date:	WEDNESDAY	26/11/08	Survey Type: MANUAL
10	LC-03-A-22	BUNGALOWS		LANCASHIRE
	CLIFTON DRIVE NORTH			
	BLACKPOOL			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		98	
	Survey date:	TUESDAY	18/10/05	Survey Type: MANUAL
11	LE-03-A-01	DETACHED		LEICESTERSHIRE
	REDWOOD AVENUE			
	MELTON MOWBRAY			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		11	
	Survey date:	TUESDAY	03/05/05	Survey Type: MANUAL
12	NY-03-A-05	HOUSES AND FLATS		NORTH YORKSHIRE
	BOROUGHBRIDGE ROAD			
	RIPON			
	Edge of Town			
	No Sub Category			
	Total Number of dwellings:		71	
	Survey date:	MONDAY	22/09/08	Survey Type: MANUAL
13	NY-03-A-07	DETACHED & SEMI DET.		NORTH YORKSHIRE
	CRAVEN WAY			
	BOROUGHBRIDGE			
	Edge of Town			
	No Sub Category			
	Total Number of dwellings:		23	
	Survey date:	TUESDAY	18/10/11	Survey Type: MANUAL
14	RO-03-A-01	MIXED HOUSES		ROSCOMMON
	GALWAY ROAD			
	ROSCOMMON			
	Edge of Town			
	No Sub Category			
	Total Number of dwellings:		80	
	Survey date:	THURSDAY	07/05/09	Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

15	SF-03-A-03	MIXED HOUSES		SUFFOLK
	BARTON HILL			
	FORNHAM ST MARTIN			
	BURY ST EDMUNDS			
	Edge of Town			
	Out of Town			
	Total Number of dwellings:		101	
	Survey date: MONDAY		15/05/06	Survey Type: MANUAL
16	SH-03-A-03	DETACHED		SHROPSHIRE
	SOMERBY DRIVE			
	BICTON HEATH			
	SHREWSBURY			
	Edge of Town			
	No Sub Category			
	Total Number of dwellings:		10	
	Survey date: FRIDAY		26/06/09	Survey Type: MANUAL
17	WL-03-A-01	SEMI D./TERRACED W.	BASSETT	WILTSHIRE
	MAPLE DRIVE			
	WOOTTON BASSETT			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		99	
	Survey date: MONDAY		02/10/06	Survey Type: MANUAL
18	WM-03-A-03	MIXED HOUSING		WEST MIDLANDS
	BASELEY WAY			
	ROWLEYS GREEN			
	COVENTRY			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		84	
	Survey date: MONDAY		24/09/07	Survey Type: MANUAL
19	WO-03-A-02	SEMI DETACHED		WORCESTERSHIRE
	MEADOWHILL ROAD			
	REDDITCH			
	Edge of Town			
	No Sub Category			
	Total Number of dwellings:		48	
	Survey date: TUESDAY		02/05/06	Survey Type: MANUAL

Mayer Brown Victoria Street Bristol

Licence No: 807403

RANK ORDER for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED
VEHICLES

Ranking Type: TOTALS Time Range: 17:00-18:00

WARNING: Using 85th and 15th percentile highlighted trip rates in data sets of under
20 surveys is not recommended by TRICS and may be misleading.

15th Percentile = No. 16

85th Percentile = No. 4

Median Values

Arrivals: 0.475

Departures: 0.250

Totals: 0.725

Mean Values

Arrivals: 0.473

Departures: 0.274

Totals: 0.747

Rank	Site-Ref	Description	Town/City	Area	DWELLS	Day	Date	Trip Rate (Sorted by Totals)			Travel Plan
								Arrivals	Departures	Totals	
1	CV-03-A-01	DETACHED	CAVAN	CAVAN	37	Tue	18/12/12	0.811	0.730	1.541	
2	SH-03-A-03	DETACHED	SHREWSBURY	SHROPSHIRE	10	Fri	26/06/09	0.700	0.600	1.300	
3	KK-03-A-03	MIXED HOUSING	KILKENNY	KILKENNY	70	Wed	26/11/08	0.629	0.357	0.986	
4	RO-03-A-01	MIXED HOUSES	ROSCOMMON	ROSCOMMON	80	Thu	07/05/09	0.600	0.313	0.912	
5	EA-03-A-01	DETACHED	KILMARNOCK	EAST AYRSHIRE	39	Thu	05/06/08	0.667	0.179	0.846	
6	WM-03-A-03	MIXED HOUSING	COVENTRY	WEST MIDLANDS	84	Mon	24/09/07	0.405	0.369	0.774	
7	CH-03-A-05	DETACHED	CREWE	CHESHIRE	17	Tue	14/10/08	0.353	0.412	0.765	
8	SF-03-A-03	MIXED HOUSES	BURY ST EDMUNDS	SUFFOLK	101	Mon	15/05/06	0.525	0.228	0.753	
9	NY-03-A-07	DETACHED & SEMI	BOROUGHBRIDGE	NORTH YORKSHIRE	23	Tue	18/10/11	0.478	0.261	0.739	
10	CB-03-A-03	SEMI DETACHED	WORKINGTON	CUMBRIA	40	Thu	20/11/08	0.475	0.250	0.725	
11	WO-03-A-02	SEMI DETACHED	REDDITCH	WORCESTERSHIRE	48	Tue	02/05/06	0.458	0.229	0.687	
12	GA-03-A-01	SEMI DETACHED	GALWAY	GALWAY	123	Wed	20/09/06	0.382	0.260	0.642	
13	NY-03-A-05	HOUSES AND FLA	RIPON	NORTH YORKSHIRE	71	Mon	22/09/08	0.437	0.169	0.606	
14	CB-03-A-04	SEMI DETACHED	WORKINGTON	CUMBRIA	82	Fri	24/04/09	0.354	0.207	0.561	
15	LC-03-A-22	BUNGALOWS	BLACKPOOL	LANCASHIRE	98	Tue	18/10/05	0.347	0.173	0.520	
16	HI-03-A-11	BUNGALOWS	INVERNESS	HIGHLAND	85	Mon	05/06/06	0.376	0.141	0.517	
17	WL-03-A-01	SEMI D./TERRAC	WOOTTON BASSETT	WILTSHIRE	99	Mon	02/10/06	0.374	0.141	0.515	
18	LE-03-A-01	DETACHED	MELTON MOWBRAY	LEICESTERSHIRE	11	Tue	03/05/05	0.273	0.182	0.455	
19	ES-03-A-02	PRIVATE HOUSIN	PEACEHAVEN	EAST SUSSEX	37	Fri	18/11/11	0.351	0.000	0.351	Yes

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL
 Category : A - HOUSES PRIVATELY OWNED
 VEHICLES

Filtering Stage 2 selection:

Parameter: Number of dwellings
 Actual Range: 10 to 123 (units:)
 Range Selected by User: 10 to 130 (units:)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/05 to 07/10/13

Selected survey days:

Monday	5 days
Tuesday	6 days
Wednesday	2 days
Thursday	3 days
Friday	3 days

Selected survey types:

Manual count	19 days
Directional ATC Count	0 days

Selected Locations:

Edge of Town	19
--------------	----

Selected Location Sub Categories:

Residential Zone	10
Out of Town	1
No Sub Category	8

Filtering Stage 3 selection:

Use Class:

C3	19 days
----	---------

Population within 1 mile:

1,001 to 5,000	4 days
5,001 to 10,000	6 days
10,001 to 15,000	6 days
15,001 to 20,000	2 days
20,001 to 25,000	1 days

Population within 5 miles:

5,000 or Less	1 days
5,001 to 25,000	3 days
25,001 to 50,000	4 days
50,001 to 75,000	2 days
75,001 to 100,000	4 days
100,001 to 125,000	3 days
125,001 to 250,000	1 days
250,001 to 500,000	1 days

Car ownership within 5 miles:

0.6 to 1.0	7 days
1.1 to 1.5	12 days

Filtering Stage 3 selection (Cont.):

Travel Plan:

Yes

1 days

No

18 days

LIST OF SITES relevant to selection parameters

1	CB-03-A-03 SEMI DETACHED HAWKSHEAD AVENUE WORKINGTON Edge of Town Residential Zone Total Number of dwellings: 40 Survey date: THURSDAY 20/11/08	CUMBRIA	Survey Type: MANUAL
2	CB-03-A-04 SEMI DETACHED MOORCLOSE ROAD SALTERBACK WORKINGTON Edge of Town No Sub Category Total Number of dwellings: 82 Survey date: FRIDAY 24/04/09	CUMBRIA	Survey Type: MANUAL
3	CH-03-A-05 DETACHED SYDNEY ROAD SYDNEY CREWE Edge of Town Residential Zone Total Number of dwellings: 17 Survey date: TUESDAY 14/10/08	CESHIRE	Survey Type: MANUAL
4	CV-03-A-01 DETACHED DUBLIN ROAD CAVAN Edge of Town No Sub Category Total Number of dwellings: 37 Survey date: TUESDAY 18/12/12	CAVAN	Survey Type: MANUAL
5	EA-03-A-01 DETACHED TALISKER AVENUE KILMARNOCK Edge of Town Residential Zone Total Number of dwellings: 39 Survey date: THURSDAY 05/06/08	EAST AYRSHIRE	Survey Type: MANUAL
6	ES-03-A-02 PRIVATE HOUSING SOUTH COAST ROAD PEACEHAVEN Edge of Town Residential Zone Total Number of dwellings: 37 Survey date: FRIDAY 18/11/11	EAST SUSSEX	Survey Type: MANUAL
7	GA-03-A-01 SEMI DETACHED HEADFORD ROAD KNOCKAYARRAGH GALWAY Edge of Town No Sub Category Total Number of dwellings: 123 Survey date: WEDNESDAY 20/09/06	GALWAY	Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

8	HI-03-A-11	BUNGALOWS		HIGHLAND
	STEVENSON ROAD			
	INSHES			
	INVERNESS			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		85	
	Survey date:	MONDAY	05/06/06	Survey Type: MANUAL
9	KK-03-A-03	MIXED HOUSING		KILKENNY
	FRESHFORD ROAD			
	FRIARSINCH			
	KILKENNY			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		70	
	Survey date:	WEDNESDAY	26/11/08	Survey Type: MANUAL
10	LC-03-A-22	BUNGALOWS		LANCASHIRE
	CLIFTON DRIVE NORTH			
	BLACKPOOL			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		98	
	Survey date:	TUESDAY	18/10/05	Survey Type: MANUAL
11	LE-03-A-01	DETACHED		LEICESTERSHIRE
	REDWOOD AVENUE			
	MELTON MOWBRAY			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		11	
	Survey date:	TUESDAY	03/05/05	Survey Type: MANUAL
12	NY-03-A-05	HOUSES AND FLATS		NORTH YORKSHIRE
	BOROUGHBRIDGE ROAD			
	RIPON			
	Edge of Town			
	No Sub Category			
	Total Number of dwellings:		71	
	Survey date:	MONDAY	22/09/08	Survey Type: MANUAL
13	NY-03-A-07	DETACHED & SEMI DET.		NORTH YORKSHIRE
	CRAVEN WAY			
	BOROUGHBRIDGE			
	Edge of Town			
	No Sub Category			
	Total Number of dwellings:		23	
	Survey date:	TUESDAY	18/10/11	Survey Type: MANUAL
14	RO-03-A-01	MIXED HOUSES		ROSCOMMON
	GALWAY ROAD			
	ROSCOMMON			
	Edge of Town			
	No Sub Category			
	Total Number of dwellings:		80	
	Survey date:	THURSDAY	07/05/09	Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

15	SF-03-A-03	MIXED HOUSES		SUFFOLK
	BARTON HILL			
	FORNHAM ST MARTIN			
	BURY ST EDMUNDS			
	Edge of Town			
	Out of Town			
	Total Number of dwellings:		101	
	Survey date: MONDAY		15/05/06	Survey Type: MANUAL
16	SH-03-A-03	DETACHED		SHROPSHIRE
	SOMERBY DRIVE			
	BICTON HEATH			
	SHREWSBURY			
	Edge of Town			
	No Sub Category			
	Total Number of dwellings:		10	
	Survey date: FRIDAY		26/06/09	Survey Type: MANUAL
17	WL-03-A-01	SEMI D./TERRACED W.	BASSETT	WILTSHIRE
	MAPLE DRIVE			
	WOOTTON BASSETT			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		99	
	Survey date: MONDAY		02/10/06	Survey Type: MANUAL
18	WM-03-A-03	MIXED HOUSING		WEST MIDLANDS
	BASELEY WAY			
	ROWLEYS GREEN			
	COVENTRY			
	Edge of Town			
	Residential Zone			
	Total Number of dwellings:		84	
	Survey date: MONDAY		24/09/07	Survey Type: MANUAL
19	WO-03-A-02	SEMI DETACHED		WORCESTERSHIRE
	MEADOWHILL ROAD			
	REDDITCH			
	Edge of Town			
	No Sub Category			
	Total Number of dwellings:		48	
	Survey date: TUESDAY		02/05/06	Survey Type: MANUAL

Mayer Brown Victoria Street Bristol

Licence No: 807403

RANK ORDER for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED
VEHICLES

Ranking Type: TOTALS Time Range: 07:00-19:00

WARNING: Using 85th and 15th percentile highlighted trip rates in data sets of under
20 surveys is not recommended by TRICS and may be misleading.

15th Percentile = No. 16

85th Percentile = No. 4

Median Values

Arrivals: 2.553

Departures: 3.171

Totals: 5.724

Mean Values

Arrivals: 3.073

Departures: 3.103

Totals: 6.176

Rank	Site-Ref	Description	Town/City	Area	DWELLS	Day	Date	Trip Rate (Sorted by Totals)			Travel Plan
								Arrivals	Departures	Totals	
1	CV-03-A-01	DETACHED	CAVAN	CAVAN	37	Tue	18/12/12	8.351	8.568	16.919	
2	KK-03-A-03	MIXED HOUSING	KILKENNY	KILKENNY	70	Wed	26/11/08	3.543	3.829	7.372	
3	LE-03-A-01	DETACHED	MELTON MOWBRAY	LEICESTERSHIRE	11	Tue	03/05/05	3.455	3.455	6.910	
4	WM-03-A-03	MIXED HOUSING	COVENTRY	WEST MIDLANDS	84	Mon	24/09/07	3.381	3.393	6.774	
5	LC-03-A-22	BUNGALOWS	BLACKPOOL	LANCASHIRE	98	Tue	18/10/05	3.653	3.082	6.735	
6	SH-03-A-03	DETACHED	SHREWSBURY	SHROPSHIRE	10	Fri	26/06/09	3.000	3.100	6.100	
7	CH-03-A-05	DETACHED	CREWE	CHESHIRE	17	Tue	14/10/08	2.706	3.294	6.000	
8	RO-03-A-01	MIXED HOUSES	ROSCOMMON	ROSCOMMON	80	Thu	07/05/09	2.875	3.075	5.950	
9	SF-03-A-03	MIXED HOUSES	BURY ST EDMUNDS	SUFFOLK	101	Mon	15/05/06	2.950	2.950	5.900	
10	GA-03-A-01	SEMI DETACHED	GALWAY	GALWAY	123	Wed	20/09/06	2.553	3.171	5.724	
11	CB-03-A-03	SEMI DETACHED	WORKINGTON	CUMBRIA	40	Thu	20/11/08	2.950	2.600	5.550	
12	EA-03-A-01	DETACHED	KILMARNOCK	EAST AYRSHIRE	39	Thu	05/06/08	2.846	2.462	5.308	
13	CB-03-A-04	SEMI DETACHED	WORKINGTON	CUMBRIA	82	Fri	24/04/09	2.573	2.610	5.183	
14	NY-03-A-07	DETACHED & SEM	BOROUGHBRIDGE	NORTH YORKSHIRE	23	Tue	18/10/11	2.870	2.304	5.174	
15	WO-03-A-02	SEMI DETACHED	REDDITCH	WORCESTERSHIRE	48	Tue	02/05/06	2.563	2.542	5.105	
16	NY-03-A-05	HOUSES AND FLA	RIPON	NORTH YORKSHIRE	71	Mon	22/09/08	2.423	2.493	4.916	
17	HI-03-A-11	BUNGALOWS	INVERNESS	HIGHLAND	85	Mon	05/06/06	2.235	2.447	4.682	
18	WL-03-A-01	SEMI D./TERRAC	WOOTTON BASSETT	WILTSHIRE	99	Mon	02/10/06	2.051	2.202	4.253	
19	ES-03-A-02	PRIVATE HOUSIN	PEACEHAVEN	EAST SUSSEX	37	Fri	18/11/11	1.405	1.378	2.783	Yes

APPENDIX J: PICADY output

TRL LIMITED

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CAPACITIES, QUEUES, AND DELAYS AT 3 OR 4-ARM MAJOR/MINOR PRIORITY JUNCTIONS

PICADY 5.1 ANALYSIS PROGRAM
RELEASE 5.0 (JUNE 2010) (Patch 15 Apr 2011)

ADAPTED FROM PICADY/3 WHICH IS CROWN COPYRIGHT
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FOR SALES AND DISTRIBUTION INFORMATION,
PROGRAM ADVICE AND MAINTENANCE CONTACT:
TRL SOFTWARE SALES
TEL: CROWTHORNE (01344) 770758, FAX: 770356
EMAIL: software@trl.co.uk

THE USER OF THIS COMPUTER PROGRAM FOR THE SOLUTION OF AN ENGINEERING PROBLEM IS
IN NO WAY RELIEVED OF HIS/HER RESPONSIBILITY FOR THE CORRECTNESS OF THE SOLUTION

Run with file:-
"H:\Barton Willmore - Common Group\Boverton\05 Calculations\
PICADY - Site access junction - 2019 forecast flows.vpi"
(drive-on-the-left) at 11:41:12 on Monday, 28 July 2014

RUN INFORMATION

RUN TITLE : Proposed access off B4265
LOCATION : Boverton
DATE : 28/07/14
CLIENT : Barratt Homes
ENUMERATOR : hiorwerth [MBBPC06]
JOB NUMBER : b/BWBoverton.1
STATUS :
DESCRIPTION : New access junction

MAJOR/MINOR JUNCTION CAPACITY AND DELAY

INPUT DATA

MAJOR ROAD (ARM C) ----- MAJOR ROAD (ARM A)
I
I
I
I
I
I
I
MINOR ROAD (ARM B)

ARM A IS B4265 northwest
ARM B IS Site access
ARM C IS B4265 southeast

STREAM LABELLING CONVENTION

STREAM A-B CONTAINS TRAFFIC GOING FROM ARM A TO ARM B
STREAM B-AC CONTAINS TRAFFIC GOING FROM ARM B TO ARM A AND TO ARM C
ETC.

GEOMETRIC DATA

I	DATA ITEM	I	MINOR ROAD B	I
I	TOTAL MAJOR ROAD CARRIAGEWAY WIDTH	I	(W) 7.20 M.	I
I	CENTRAL RESERVE WIDTH	I	(WCR) 0.00 M.	I
I		I		I
I	MAJOR ROAD RIGHT TURN - WIDTH	I	(WC-B) 3.50 M.	I
I	- VISIBILITY	I	(VC-B) 160.00 M.	I
I	- BLOCKS TRAFFIC (SPACES)	I	NO (0)	I
I		I		I
I	MINOR ROAD - VISIBILITY TO LEFT	I	(VB-C) 15.0 M.	I
I	- VISIBILITY TO RIGHT	I	(VB-A) 15.0 M.	I
I	- LANE 1 WIDTH	I	(WB-C) 2.75 M.	I
I	- LANE 2 WIDTH	I	(WB-A) 0.00 M.	I

.SLOPES AND INTERCEPT

(NB:Streams may be combined, in which case capacity will be adjusted)

I	Intercept For	Slope For	Opposing	Slope For	Opposing	I
I	STREAM B-C	STREAM A-C	STREAM A-B	STREAM A-B	STREAM A-B	I
I	617.53	0.23	0.09			I

I	Intercept For	Slope For	Opposing	Slope For	Opposing	Slope For	Opposing	I
I	STREAM B-A	STREAM A-C	STREAM A-B	STREAM C-A	STREAM C-B	STREAM C-B	STREAM C-B	I
I	477.62	0.21	0.08	0.13	0.30			I

I	Intercept For	Slope For	Opposing	Slope For	Opposing	I
I	STREAM C-B	STREAM A-C	STREAM A-B	STREAM A-B	STREAM A-B	I
I	760.94	0.28	0.28			I

(NB These values do not allow for any site specific corrections)

TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)
08.45-09.00									
B-AC	0.64	6.27	0.103		0.16	0.12	1.8		0.18
C-A	0.06								
C-B	5.53	10.65	0.519		1.93	1.11	17.6		0.20
A-B	0.07								
A-C	6.44								

TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)
09.00-09.15									
B-AC	0.54	6.76	0.080		0.12	0.09	1.4		0.16
C-A	0.05								
C-B	4.63	10.98	0.422		1.11	0.74	11.6		0.16
A-B	0.06								
A-C	5.40								

QUEUE FOR STREAM B-AC

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.1
08.15	0.1
08.30	0.2
08.45	0.2
09.00	0.1
09.15	0.1

QUEUE FOR STREAM C-B

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
08.00	0.7 *
08.15	1.1 *
08.30	1.9 **
08.45	1.9 **
09.00	1.1 *
09.15	0.7 *

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

STREAM	TOTAL DEMAND	* QUEUEING * * DELAY *	* INCLUSIVE QUEUEING * * DELAY *
(VEH)	(VEH/H)	(MIN)	(MIN/VEH)
B-AC	59.2	10.8	0.18
C-A	5.5		
C-B	507.9	109.2	0.21
A-B	6.9		
A-C	591.9	394.6	
ALL	1171.3	120.0	0.10

* DELAY IS THAT OCCURRING ONLY WITHIN THE TIME PERIOD
 * INCLUSIVE DELAY INCLUDES DELAY SUFFERED BY VEHICLES WHICH ARE STILL QUEUEING AFTER THE END OF THE TIME PERIOD
 * THESE WILL ONLY BE SIGNIFICANTLY DIFFERENT IF THERE IS A LARGE QUEUE REMAINING AT THE END OF THE TIME PERIOD.

*****END OF RUN*****

.SLOPES AND INTERCEPT

(NB:Streams may be combined, in which case capacity will be adjusted)

Intercept For	Slope For	Opposing	Slope For
STREAM B-C	STREAM A-C	STREAM A-B	STREAM A-B
617.53	0.23		0.09

Intercept For	Slope For	Opposing	Slope For	Opposing	Slope For	Opposing
STREAM B-A	STREAM A-C	STREAM A-B	STREAM C-A	STREAM C-B	STREAM C-B	STREAM C-B
477.62	0.21	0.08	0.13		0.30	

Intercept For	Slope For	Opposing	Slope For
STREAM C-B	STREAM A-C	STREAM A-B	STREAM A-B
760.94	0.28		0.28

(NB These values do not allow for any site specific corrections)

TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)
17.45-18.00									
B-AC	0.30	6.39	0.047		0.07	0.05	0.8		0.16
C-A	8.29								
C-B	0.33	10.84	0.030		0.04	0.03	0.5		0.10
A-B	0.24								
A-C	6.04								

TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)
18.00-18.15									
B-AC	0.25	6.78	0.037		0.05	0.04	0.6		0.15
C-A	6.94								
C-B	0.28	11.14	0.025		0.03	0.03	0.4		0.09
A-B	0.20								
A-C	5.06								

QUEUE FOR STREAM B-AC

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.1
17.45	0.1
18.00	0.0
18.15	0.0

QUEUE FOR STREAM C-B

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE
17.00	0.0
17.15	0.0
17.30	0.0
17.45	0.0
18.00	0.0
18.15	0.0

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

STREAM	TOTAL DEMAND	* QUEUEING * * DELAY *	* INCLUSIVE QUEUEING * * DELAY *
(VEH)	(VEH/H)	(MIN)	(MIN/VEH)
B-AC	27.5	18.4	4.6
C-A	761.2	507.4	0.17
C-B	30.3	20.2	2.9
A-B	22.0	14.7	0.10
A-C	554.7	369.8	0.10
ALL	1395.7	930.5	7.5

* DELAY IS THAT OCCURRING ONLY WITHIN THE TIME PERIOD
 * INCLUSIVE DELAY INCLUDES DELAY SUFFERED BY VEHICLES
 WHICH ARE STILL QUEUEING AFTER THE END OF THE TIME PERIOD
 * THESE WILL ONLY BE SIGNIFICANTLY DIFFERENT IF THERE IS
 A LARGE QUEUE REMAINING AT THE END OF THE TIME PERIOD.

*****END OF RUN*****

==== end of file =====

