

Traffic Survey Report

Proposed Residential Development,
Brog Makers, Castlecomer Road,
Kilkenny.

Kilkenny County Council

July 2018

HDC 1223/004

Hegsons Design Consultancy Limited

HEGSONS 
Design Consultancy limited

Kilkenny County Council

Proposed Residential Development
The Brog Maker, Castlecomer Road, Co.
Kilkenny

Traffic Survey Report

July 2018



Hegsons Design Consultancy Ltd

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1 Background

1.1 Introduction

In June 2018, Hegsons Design Consultancy Limited were commissioned to undertake a peak hour traffic counts on Castlecomer Road, Kilkenny, in close proximity to the Brog Maker site.

The traffic counts and analysis have been undertaken in order to gain an in-depth understanding of the existing traffic and transport conditions on Castlecomer Road and to support a possible planning application for a social housing development on the Brog Maker site.

This report outlines the programme of traffic data collection surveys that were undertaken and summaries the findings of the surveys.

1.2 Site Location

The proposed development site is to be located to the north of Kilkenny City along the Castlecomer Road. Photograph 1 outlines the site boundary in the context of the surrounding area.



Photograph 1: Aerial Photograph of the Site Boundary

2 Baseline Traffic Conditions

2.1 Introduction

Peak hour junction counts and a 12 hours traffic flows for the Castlecomer Road were derived from a manual turning counts undertaken on Thursday 14th June 2018.

The traffic count was undertaken on the Castlecomer Road at the existing access to the Brog Maker site / Kilsheelin Heights and Newpark Lower road junctions.



Photograph 2: Location of Traffic Counts

The junctions take the form of a priority junction with entering and exiting vehicles giving way to on-coming traffic.

Observations were also made in relation to the traffic flow along the Castlecomer Road for the same time periods.

2.2 Data Collection

A programme of data collection was necessary in order to ensure that a full understanding of the current situation could be established. The traffic & pedestrian surveys undertaken included the following:

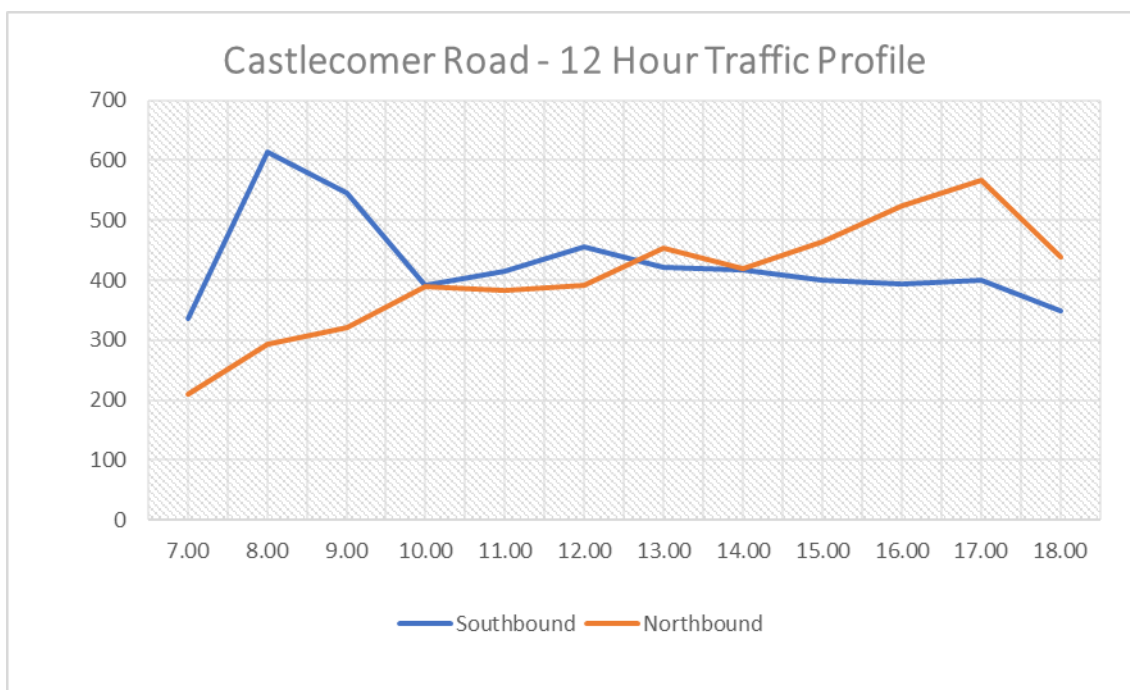
- Link Traffic Count (12 hours count)
- Junction Turning Movement Counts (Peak Hour)
- Pedestrian & Cycle Counts

The following sections summarise the data collected in programme of surveys.

2.3 Castlecomer Road – 12 Hour Traffic Profile

As a first step in the analysis of the traffic count data, link traffic flows along Castlecomer Road was analysed to reveal the traffic demand profile on the road.

Graph 2.1 below, outlines the 12-hour traffic profile for the Castlecomer Road outside the Brog Makers site. (Total no of vehicles by direction between 07.00 and 19.00).



As can be seen from Graph 2.1 (total no. of vehicles vs hour beginning), the AM and PM peak hours on the Castlecomer Road occur as followings:

AM Peak Hour (08:30 – 09:30); and

PM Peak Hour (16:45 – 17:45)

Castlecomer Road accommodate approximately 9,988 straight through vehicle movements between 0700 and 19.00 (12-hour count).

2.4 Junction Peak Hour Traffic

A Junction Turning Count captures the number of vehicles turning at a junction and observes which turn they take. The traffic was classified into different vehicle categories. The junction turning count surveys were undertaken in the peak hour periods between:

AM Peak: 07.45 – 09.45

PM Peak: 16.45 – 18.15

Traffic flow was classified by vehicle type and recorded in 15-minute time intervals.

In the traffic count surveys, vehicles were classified into the following categories:

- Cars (CAR)
- Light Goods Vehicles (LGV)
- Other / HGV Goods Vehicles (type 1 & 2 OGV's)
- Buses (BUS)
- Motorcycles (M/C) / Pedal Cycles (P/C).

A summary of the traffic surveys in Appendix A.

2.5 Pedestrian & Cycle Counts

A pedestrian and cycle counts were undertaken at both junction and also the signalised pedestrian crossing on Castlecomer Road.

A summary of the pedestrian and cycle counts are contained in the traffic surveys in Appendix A.

The pedestrian crossing point experience a low level of use during the peak hour survey period. The signalised pedestrian crossing was called:

- 6 times in the AM peak period (between 08.30 and 09.30).
- 4 times in the PM peak period (between 16.45 and 17.45).

3 Conclusions

Hegsons Design Consultancy Limited were commissioned to undertake a peak hour traffic count on Castelcomer Road in June 2018 to gain an in-depth understanding of the existing traffic and transport conditions along the road and to support a possible planning application for a social housing development on the Brog Maker site.

The findings of the traffic survey indicate that Castlecomer Road accommodate approximately 9,988 straight through vehicle movements between 0700 and 19.00 (12-hour count).

The junction turning count surveys indicate that the peak hour periods are:

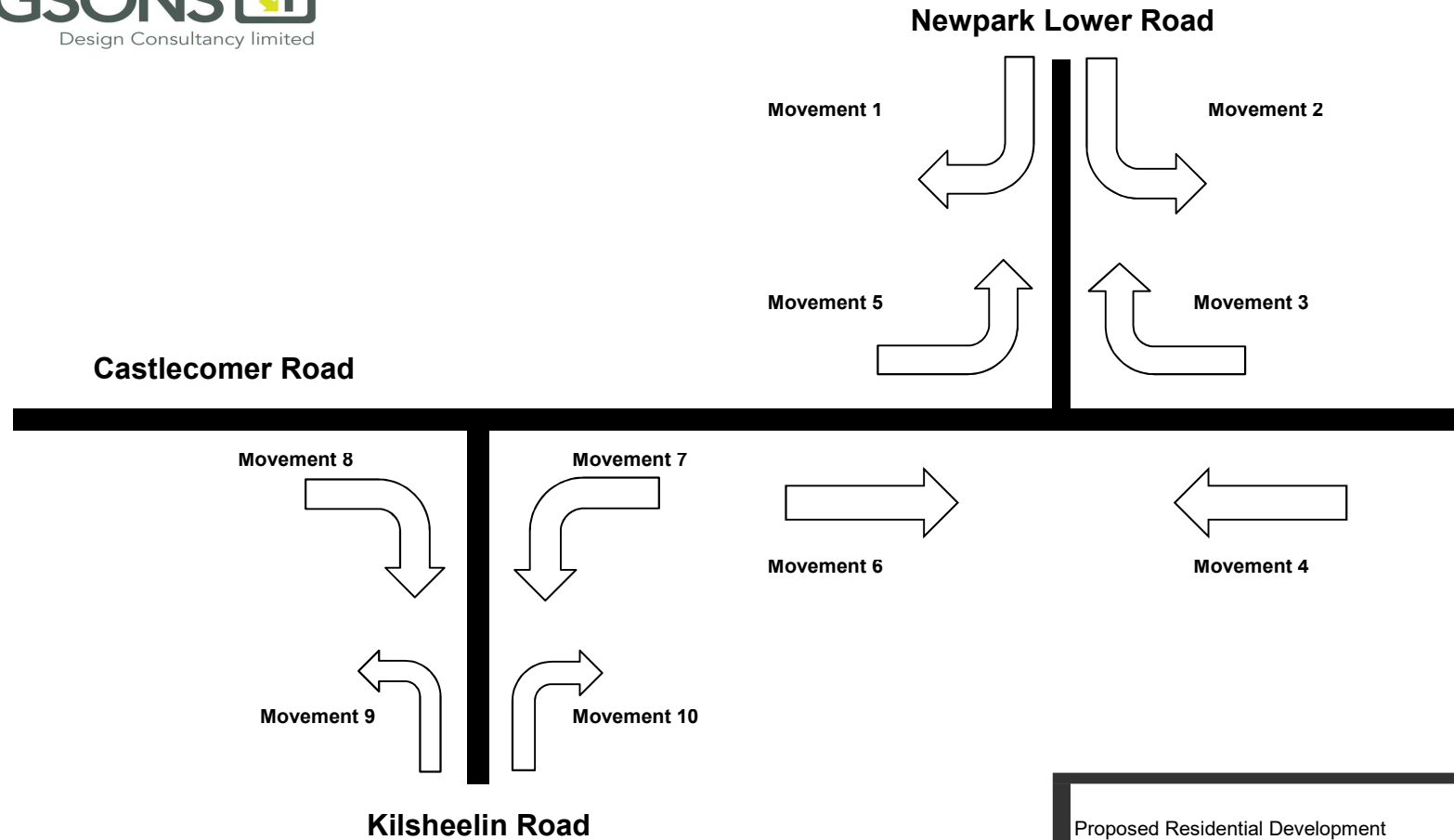
AM Peak: 08.30 – 09.30

PM Peak: 16.45 – 17.45

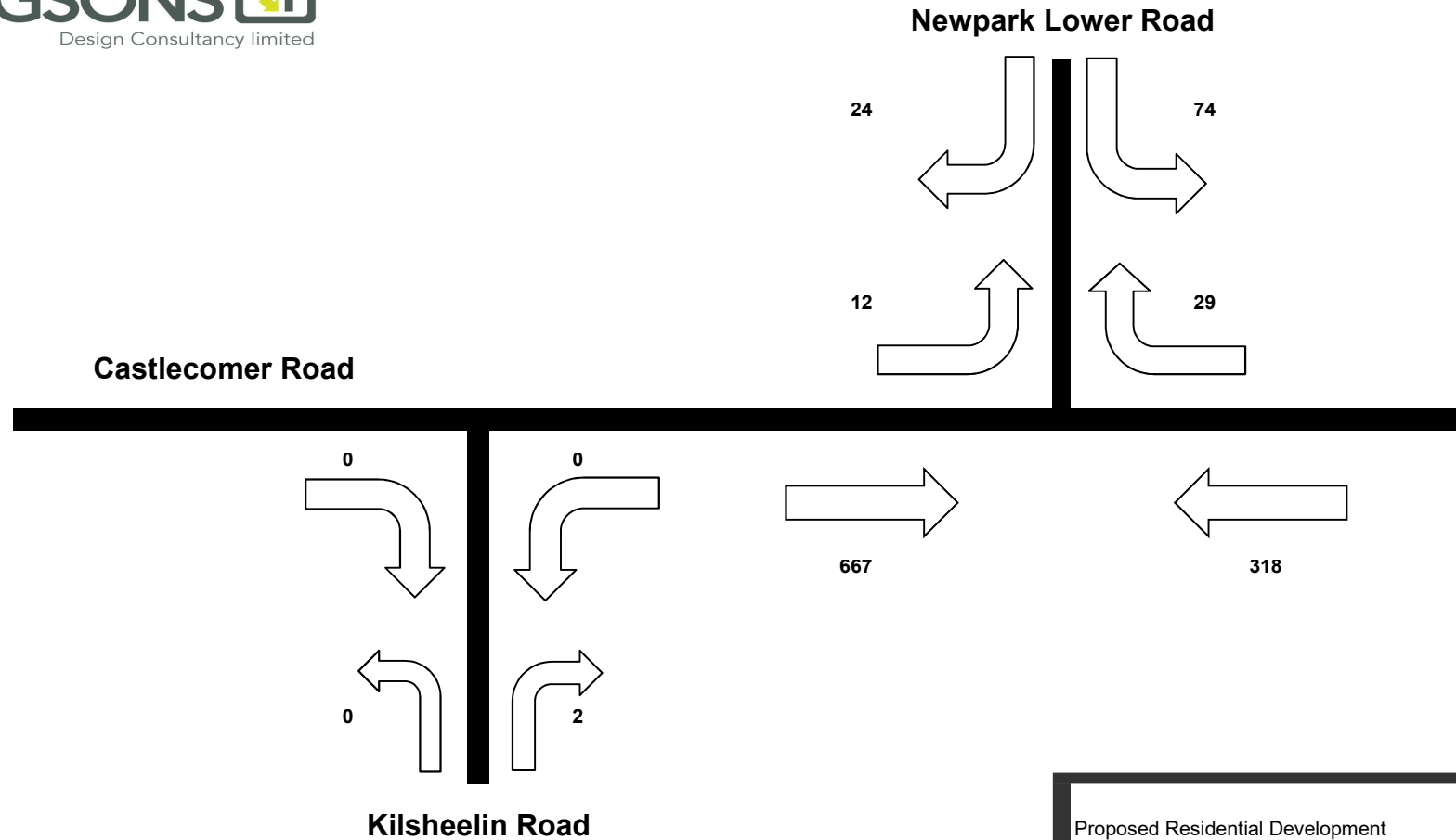
A moderate level of pedestrian and cycle activity is experience in the area and the existing signalised pedestrian crossing does not get called on a regular basis.

Appendix A

Traffic Counts

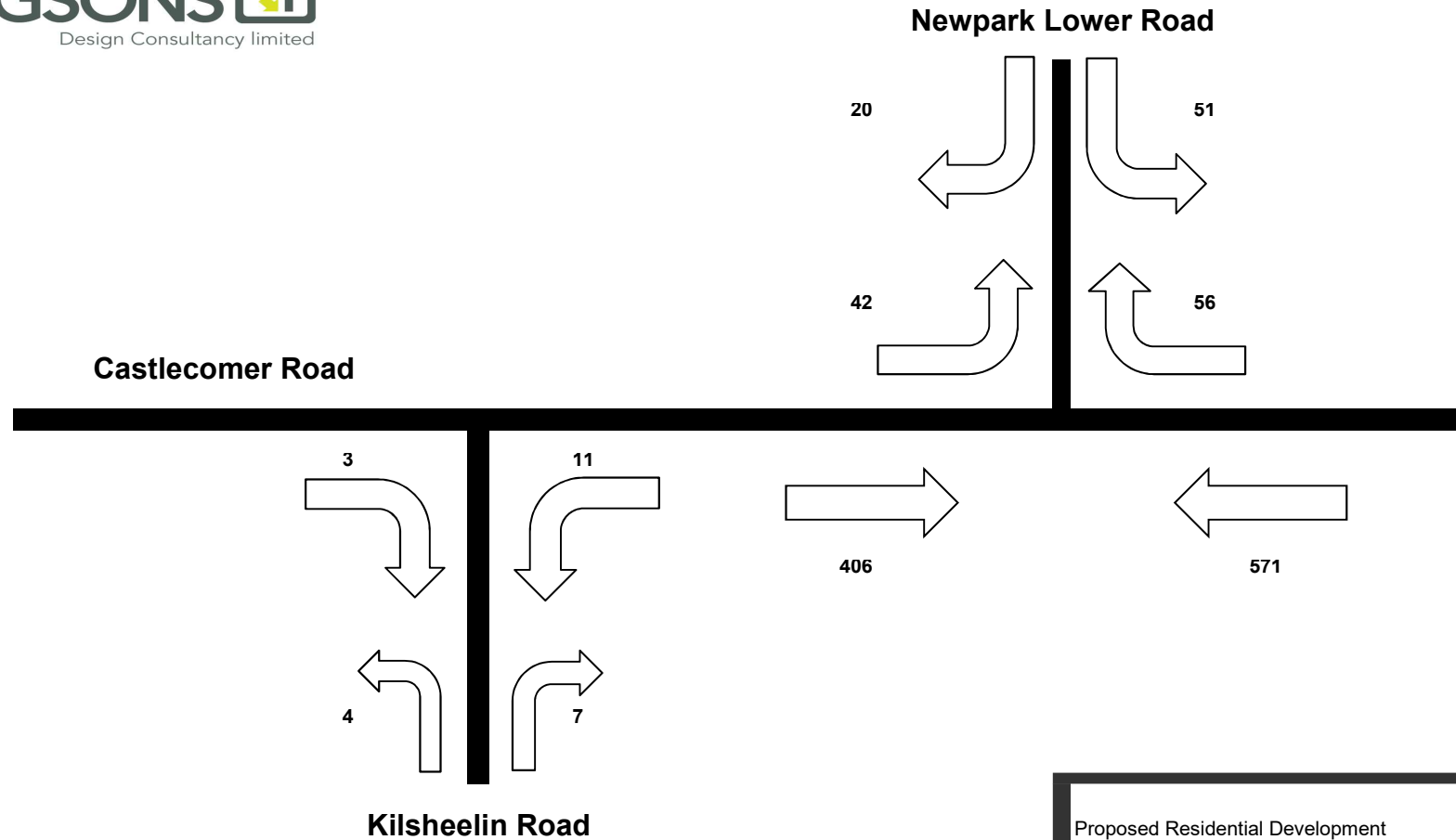


Proposed Residential Development
Castlecomer Road, Co Kilkenny
Traffic Movement Diagram
Drawing No HDC 1223/04 - 101
Dwg Chkd 19-Jul-18
KMH SFS



* Total Number of Vehicles

Proposed Residential Development
Castlecomer Road, Co Kilkenny
AM Peak Traffic Movements (08.30 - 09.30)
Drawing No HDC 1223/04 - 102
Dwg Chkd 19-Jul-18
KMH SFS



* Total Number of Vehicles

Proposed Residential Development
Castlecomer Road, Co Kilkenny
PM Peak Traffic Movements (16.45 - 17.45)
Drawing No HDC 1223/04 - 103
Dwg Chkd 19-Jul-18
KMH SFS

Castlecomer Road, Kilkenny - Traffic Count

Date 14th June 2018

Weather Dry & overcast

Start	Finish	Direction													
AM Peak		Newpark Lower Road (Right: NB to Castlecomer)						Newpark Lower Road (Left: SB to City Centre)						Two Directional Volumes	60 min Totals
		Movement 1						Movement 2							
		Cars	LGV	O/HGV	Bus	Ped / Cyc	Total	Cars	LGV	O/HGV	Bus	Ped / Cyc	Total		
745	800	1	0	0	0	3	1	16	1	0	0	1	17	18	101
800	815	5	1	0	0	0	6	18	0	0	0	1	18	24	
815	830	0	0	0	0	1	0	16	0	0	0	1	16	16	
830	845	3	1	1	1	3	6	36	1	0	0	0	37	43	
845	900	5	0	0	0	1	5	17	0	0	0	2	17	22	
900	915	7	1	0	0	0	8	7	1	0	0	1	8	16	
915	930	4	0	1	0	0	5	12	0	0	0	0	12	17	
930	945	4	0	0	0	1	4	19	0	0	0	1	19	23	

Date 14th June 2018

Weather:

Dry & overcast

Start	Finish	Direction													
PM Peak		Newpark Lower Road (Right: NB to Castlecomer)						Newpark Lower Road (Left: SB to City Centre)						Two Directional Volumes	60 min Totals
		Movement 1						Movement 2							
		Cars	LGV	O/HGV	Bus	Ped / Cyc	Total	Cars	LGV	O/HGV	Bus	Ped / Cyc	Total		
1645	1700	5	0	0	0	0	5	11	0	0	0	1	11	16	71
1700	1715	9	0	0	0	0	9	8	0	0	0	0	8	17	
1715	1730	1	0	0	0	0	1	13	0	0	0	1	13	14	
1730	1745	4	1	0	0	0	5	19	0	0	0	0	19	24	
1745	1800	7	0	0	0	1	7	12	0	0	0	1	12	19	
1800	1815	5	0	0	0	0	5	13	0	0	0	1	13	18	

Castlecomer Road, Kilkenny - Traffic Count

Date 14th June 2018

Weather Dry & overcast

Start	Finish	Direction													
AM Peak		Castlecomer Road (Right: EB to Newpark Lwr Road) Movement 3						Castlecomer Road (St: Towards Castlecomer) Movement 4						Two Directional Volumes	60 min Totals
		Cars	LGV	O/HGV	Bus	Ped / Cyc	Total	Cars	LGV	O/HGV	Bus	Ped / Cyc	Total		
745	800	5	0	0	0	1	5	63	2	0	0	1	65	70	286
800	815	2	0	0	0	2	2	52	5	1	3	4	61	63	
815	830	4	0	0	0	0	4	57	5	3	1	4	66	70	
830	845	6	1	0	0	0	7	73	2	1	0	1	76	83	
845	900	3	0	0	0	0	3	84	4	1	1	3	90	93	
900	915	9	0	0	0	0	9	65	1	1	3	1	70	79	
915	930	9	1	0	0	1	10	76	3	3	0	4	82	92	
930	945	12	0	0	0	0	12	84	4	0	1	1	89	101	

Date 14th June 2018

Weather:

Dry & overcast

Start	Finish	Direction													
PM Peak		Castlecomer Road (Left: EB to Newpark Lwr Road) Movement 3						Castlecomer Road (St: Towards Castlecomer) Movement 4						Two Directional Volumes	60 min Totals
		Cars	LGV	O/HGV	Bus	Ped / Cyc	Total	Cars	LGV	O/HGV	Bus	Ped / Cyc	Total		
1645	1700	10	0	0	0	0	10	132	6	0	1	3	139	149	627
1700	1715	15	1	0	0	0	16	132	5	0	2	5	139	155	
1715	1730	16	1	0	0	1	17	128	10	2	1	4	141	158	
1730	1745	13	0	0	0	0	13	142	8	1	1	3	152	165	
1745	1800	12	1	0	0	1	13	130	4	1	0	5	135	148	
1800	1815	7	0	0	0	0	7	120	2	0	1	7	123	130	

Castlecomer Road, Kilkenny - Traffic Count

Date 14th June 2018

Weather Dry & overcast

Start	Finish	Direction													
AM Peak		Castlecomer Road (Left: EB to Newpark Lwr Road) Movement 5						Castlecomer Road (St: Towards City Centre) Movement 6						Two Directional Volumes	60 min Totals
		Cars	LGV	O/HGV	Bus	Ped / Cyc	Total	Cars	LGV	O/HGV	Bus	Ped / Cyc	Total		
745	800	0	0	0	0	0	0	90	0	2	0	1	92	92	523
800	815	2	0	0	0	1	2	120	8	1	1	5	130	132	
815	830	2	0	0	0	1	2	102	5	3	2	2	112	114	
830	845	2	0	0	0	1	2	170	9	2	2	6	183	185	
845	900	3	0	0	0	0	3	178	8	3	1	2	190	193	
900	915	4	1	0	0	0	5	145	5	0	1	3	151	156	
915	930	2	0	0	0	0	2	133	7	3	0	5	143	145	
930	945	4	0	0	0	1	4	107	5	3	0	2	115	119	

Date 14th June 2018

Weather:

Dry & overcast

Start	Finish	Direction													
PM Peak		Castlecomer Road (Left: EB to Newpark Lwr Road) Movement 5						Castlecomer Road (St: Towards City Centre) Movement 6						Two Directional Volumes	60 min Totals
		Cars	LGV	O/HGV	Bus	Ped / Cyc	Total	Cars	LGV	O/HGV	Bus	Ped / Cyc	Total		
1645	1700	8	1	0	0	0	9	90	6	0	1	3	97	106	448
1700	1715	8	0	0	0	0	8	89	5	1	0	2	95	103	
1715	1730	13	2	0	0	0	15	104	4	0	1	2	109	124	
1730	1745	9	1	0	0	1	10	99	3	2	1	0	105	115	
1745	1800	5	0	0	0	0	5	92	0	0	0	1	92	97	
1800	1815	5	0	0	0	1	5	98	5	0	0	1	103	108	

Castlecomer Road, Kilkenny - Traffic Count

Date 14th June 2018

Weather Dry & overcast

Start	Finish	Direction													
AM Peak		Castlecomer Road (Left: WB into Kilsheenlin Road) Movement 7						Castlecomer Road (Right: WB into Kilsheenlin Road) Movement 8						Two Directional Volumes	60 min Totals
		Cars	LGV	O/HGV	Bus	Ped / Cyc	Total	Cars	LGV	O/HGV	Bus	Ped / Cyc	Total		
745	800	0	0	0	0	0	0	0	0	0	0	0	0	0	
800	815	1	0	0	0	0	1	0	0	0	0	0	0	1	
815	830	0	0	0	0	0	0	0	0	0	0	0	0	0	
830	845	0	0	0	0	0	0	0	0	0	0	0	0	0	1
845	900	0	0	0	0	0	0	0	0	0	0	0	0	0	1
900	915	0	0	0	0	0	0	0	0	0	0	0	0	0	0
915	930	0	0	0	0	0	0	0	0	0	0	0	0	0	0
930	945	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Date 14th June 2018

Weather:

Dry & overcast

Start	Finish	Direction													
PM Peak		Castlecomer Road (Left: WB into Kilsheenlin Road) Movement 7						Castlecomer Road (Right: WB into Kilsheenlin Road) Movement 8						Two Directional Volumes	60 min Totals
		Cars	LGV	O/HGV	Bus	Ped / Cyc	Total	Cars	LGV	O/HGV	Bus	Ped / Cyc	Total		
1645	1700	2	0	0	0	0	2	2	0	0	0	0	2	4	
1700	1715	1	0	0	0	0	1	0	0	0	0	0	0	1	
1715	1730	5	0	0	0	0	5	0	0	0	0	0	0	5	
1730	1745	3	0	0	0	0	3	1	0	0	0	0	1	4	14
1745	1800	3	0	0	0	0	3	1	0	0	0	0	1	4	14
1800	1815	2	0	0	0	0	2	2	0	0	0	0	2	4	17

Castlecomer Road, Kilkenny - Traffic Count

Date 14th June 2018

Weather Dry & overcast

Start	Finish	Direction													
AM Peak		Kilsheenlin Road (Left: NB to Castlecomer) Movement 9						Kilsheenlin Road (Right: SB to City Centre) Movement 10						Two Directional Volumes	60 min Totals
		Cars	LGV	O/HGV	Bus	Ped / Cyc	Total	Cars	LGV	O/HGV	Bus	Ped / Cyc	Total		
745	800	0	0	0	0	0	0	2	0	0	0	0	2	2	8
800	815	1	0	0	0	0	1	3	0	0	0	0	3	4	
815	830	0	0	0	0	0	0	1	0	0	0	0	1	1	
830	845	0	0	0	0	0	0	1	0	0	0	0	1	1	
845	900	0	0	0	0	0	0	1	0	0	0	0	1	1	
900	915	0	0	0	0	0	0	0	0	0	0	0	0	0	
915	930	0	0	0	0	0	0	0	0	0	0	0	0	0	
930	945	0	0	0	0	0	0	1	0	0	0	0	1	1	

Date 14th June 2018

Weather:

Dry & overcast

Start	Finish	Direction													
PM Peak		Kilsheenlin Road (Left: NB to Castlecomer) Movement 9						Kilsheenlin Road (Right: SB to City Centre) Movement 10						Two Directional Volumes	60 min Totals
		Cars	LGV	O/HGV	Bus	Ped / Cyc	Total	Cars	LGV	O/HGV	Bus	Ped / Cyc	Total		
1645	1700	2	0	0	0	0	2	2	0	0	0	0	2	4	11
1700	1715	1	0	0	0	0	1	2	0	0	0	0	2	3	
1715	1730	0	0	0	0	0	0	2	0	0	0	0	2	2	
1730	1745	1	0	0	0	0	1	1	0	0	0	0	1	2	
1745	1800	0	0	0	0	0	0	1	0	0	0	0	1	1	
1800	1815	1	0	0	0	0	1	3	0	0	0	0	3	4	

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