

Opes 2013 MRF Limited

Ingle Nook Farm, Barwell

Highway Impact Assessment

May 2023



**BANCROFT
CONSULTING**

bancroftconsulting.co.uk

**INGLE NOOK FARM, BARWELL
HIGHWAY IMPACT ASSESSMENT
(MAY 2023)**

1.0 INTRODUCTION AND DEVELOPMENT PROPOSALS

- 1.1 Bancroft Consulting was appointed Opes 2013 MRF Limited, to provide highways and transport advice in respect of proposals for development on land to the west of Leicester Road in Barwell, Leicestershire. **Figure 1** shows the site location in context with its local surroundings.
- 1.2 By way of background, the site is contained within the northern parcel of the area known as 'Ingle Nook Farm'. From reviewing the Hinckley and Bosworth Borough Council Planning Portal, all previous development within the 'Ingle Nook Farm' seems to have taken place within the southern and western areas of 'Ingle Nook Farm'. The proposed development site appears to have been used as an informal paddock facility to support the development to the south.
- 1.3 **Appendix A** contains the latest site masterplan, which demonstrates that the proposals consist of 20 one-bed holiday 'pods' and 10 two-bed holiday 'lodges' plus a management building. The proposals would be served by an improved access off Leicester Road.
- 1.4 The objective of this Highway Impact Assessment is to demonstrate to Leicestershire County Council (LCC) acting in their role as the local highway authority, that the proposed development could be served by a 'safe and suitable access' and that it would not lead to any severe impacts or materially change the traffic conditions along Leicester Road.
- 1.5 This report considers the requirements of Paragraphs 110 and 111 of the National Planning Policy Framework [NPPF] (MHCLG, July 2021), which states:

"In assessing sites that may be allocated for development in plans, or specific applications for development, it should be ensured that:

a) appropriate opportunities to promote sustainable transport modes can be – or have been – taken up, given the type of development and its location;
b) safe and suitable access to the site can be achieved for all users;
c) the design of streets, parking areas, other transport elements and the content of associated standards reflects current national guidance, including the National Design Guide and the National Model Design Code; and
d) any significant impacts from the development on the transport network (in terms of capacity and congestion), or on highway safety, can be cost effectively mitigated to an acceptable degree.” [Paragraph 110]

“Development should only be prevented or refused on highways grounds if there would be an unacceptable impact on highway safety, or the residual cumulative impacts on the road network would be severe.” [Paragraph 111]

- 1.6 As well as considering the NPPF guidance, this Highway Impact Assessment also gives due regard to current best practice advice contained in the document ‘Manual for Streets’ (DfT, 2007) and its companion document ‘Manual for Streets 2 – Wider Application of the Principles’ (CIHT, 2010). This report also considers local adopted guidance within the ‘Leicestershire Highways Design Guide’ with a particular focus on ‘Section 3 – Design Guidance’ of this document.
- 1.7 Table PDP1 of the Leicestershire Highways Design Guide states that residential developments of less than 50 dwellings do not usually require any detailed highway report. However, in line with the objectives for “*safe and suitable access*” as set out in Paragraph 110(b) of the NPPF, this Highway Impact Assessment has been prepared to ensure that the proposals would meet the requirements of both national and local policy/design guidance.
- 1.8 This report has been completed following a detailed site visit on Monday 3rd April 2023 during which observations were taken on the immediate surrounding highway network. These observations will be referenced later in this report, where necessary.
- 1.9 To understand the existing speed conditions along Leicester Road two Automated Traffic Counts (ATC) were carried out. This was following advice from Ben Dutton

(Highway Officer at Leicestershire County Council) that ATCs “*may be preferable*” and would provide “*robust speed survey data*” given the nature of Leicester Road. **Appendix B** contains the email correspondence between Bancroft Consulting and Ben Dutton on this matter.

2.0 EXISTING CONDITIONS

Site Details

- 2.1 The site is located to the west of Leicester Road on the edge of Barwell, a village in Leicestershire. It is bound by Leicester Road to the east, undeveloped fields to the north and 'Ingle Nook Farm' to the south and west. The site is approximately 1.5 kilometres to the southeast of the centre of Barwell and approximately 2 kilometres to the southwest of the centre of Earl Shilton. Slightly further afield, Hinckley is located approximately 4 kilometres to the southwest of the site whilst Leicester City Centre is located approximately 15 kilometres to the northeast of the site.
- 2.2 Barwell provides access to a variety of local amenities including a Co-op, post office, library, pharmacy, an ATM and multiple pubs/restaurants. The Co-op located in the village centre is located approximately 1.5 kilometres from the site and can be accessed by an 18-minute walk or 5-minute cycle according to Google Maps.
- 2.3 As previously mentioned, the proposed site is contained within the northern parcel of land known as 'Ingle Nook Farm'. 'Ingle Nook Farm' consists of approximately 11 acres of land, primarily used for equestrian and agricultural activity. All previous development appears to have taken place within the southern and western areas of 'Ingle Nook Farm'. The existing development to the south is currently served by a vehicle crossover arrangement through the use of a 12-metre dropped kerb. **Image 1** provides a view of the access from across Leicester Road.



- 2.4 **Image 2** shows a view of the existing access for the northern parcel (the proposed site) of 'Ingle Nook Farm'. The access currently comprises a vehicle crossover arrangement through the use of a 5.4-metre-long dropped kerb. The gates are located approximately 9.5 metres from Leicester Road and are approximately 6 metres wide. The proposed development site appears to have been used as an informal paddock facility to support the development to the south. **Image 3** shows a view looking into the site from the gates shown in **Image 2**.



Highway Layout

- 2.5 Leicester Road extends past the eastern boundary of the site in a broadly north-to-south direction. It is a single carriageway road and is subject to a 40mph speed limit at the site frontage. Approximately 180 metres to the north of the site access, 30mph speed limit restrictions begin as Leicester Road extends into Barwell.
- 2.6 Leicester Road has a carriageway width of approximately 6.2 metres at the site access. The carriageway is bound by a footway (measuring approximately 1.5 metres) to the west and vegetation to the east. In the vicinity of the site access, Leicester Road provides road markings but no street lighting.
- 2.7 Approximately 160 metres south of the site access, a shared footway/cycleway measuring approximately 3 metres wide is provided on both sides of the carriageway (as shown in **Images 4 and 5**). Street lighting is also provided from this point.



- 2.8 **Appendix C** contains a highway boundary plan purchased from LCC. This confirms that Leicester Road and the footway/vegetation on either side of the carriageway are within the extent of adopted highway.

Highway Safety

- 2.9 An assessment of recent Personal Injury Accident records within the immediate vicinity of the site was completed to determine if there are any existing highway safety problems that could potentially be exacerbated by the proposed development. A review of the 'CrashMap' website (www.crashmap.co.uk) was completed using the latest available five-year study period (2017 to 2021). As shown in **Figure 2**, there have been no accidents within 200 metres of the existing access.
- 2.10 **Figure 2** also shows that there have been three accidents at the Leicester Road/ A47 roundabout within the latest five-year study period. The following table summarises the accidents that occurred, with the accidents being numbered from west to east.

Accident Number	Day/ Date	Severity	Number of vehicles involved	Number of casualties involved
1	02/09/18	Slight	1 (Car driven by a young driver)	1
2	08/09/18	Slight	2 (Both cars and involved a young driver)	1
3	09/12/20	Serious	2 (A car and a motorcycle)	1 (Motorcyclist)

2.11 The above table demonstrates that the majority of accidents were classified as slight and involved two cars. A further review of Crashmap highlights that none of the above three accidents involved pedestrians, cyclists or children and therefore didn't involve any vulnerable users. Given that no accidents took place within 200 metres of the site access or on the Leicester Road arm of the roundabout to the south, it is considered that there is no evidence of any ongoing highway safety problems within the immediate vicinity of the site that could be potentially exacerbated by the proposed development.

Sustainable Travel

2.12 Leicester Road provides a footway on the western edge of the carriageway which measures approximately 1.5 metres at the proposed site access. This increases to a shared footway/cycleway on both sides of the carriageway measuring approximately 3 metres towards the southern edge of the site boundary. The nearest bus stops to the site are 'Sandringham Avenue' which are located approximately 450 metres east of the site and can be accessed by a 6-minute walk along the footways provided on Leicester Road and Elmesthorpe Lane. These bus stops are served by Route Number 1 which is operated by Arriva Midlands and connects the site to key destinations including Earl Shilton and Hinckley.

Survey Results

2.13 As previously mentioned, it was agreed with Ben Dutton that the use of Automated Traffic Counts would provide “*robust speed survey data*” given the nature of Leicester Road when compared to hand-held speed radar guns. Therefore, two Automated Traffic Counts (ATC) were installed approximately 100 metres either side of the proposed site access. The ATCs collected data for 7 days between Thursday 20th April 2023 and Wednesday 26th April 2023. **Appendix D** contains the full results of the ATCs, whilst a summary is provided in **Tables 1 to 6**.

2.14 In terms of traffic flows, the ATCs recorded the following average number of two-way weekday vehicle movements along Leicester Road:

Time Period	Total Vehicles	Total HGVs
AM peak (0800 to 0900)	991	98
PM peak (1700 to 1800)	961	65
Daily (0700 to 1900)	9344	944

2.15 The table above demonstrates that Leicester Road has roughly 16 vehicle movements every minute during the peak hours. The table also highlighted that approximately 10% of all traffic along Leicester Road are HGVs.

2.16 The following table provides a summary of the 85th percentile vehicle speeds recorded by both ATCs during the 7-day survey period.

ATC location	Northbound	Southbound
North of Site	44.0mph	46.4mph
South of Site	45.4mph	46.5mph

2.17 This demonstrates that vehicles travel slightly above the 40 mph speed limit on approach to the site in both directions. These vehicle speeds will be used later in the report to calculate the corresponding visibility splay requirements.

3.0 TRANSPORT CONSIDERATIONS

Traffic Generation

3.1 The proposed development consists of 20 one-bed holiday 'pods' and 10 two-bed holiday lodges plus a management building. For this assessment, the 30 units will be referred to as 'holiday lets' going forward. For robustness, the management building will also be counted as a 'holiday let' and therefore the proposals will refer to 31 units for this section.

3.2 To determine suitable trip rates for the proposed development, similar applications within the Leicestershire area have been reviewed. An application (Harborough District Council Planning Reference: 22/00719/FUL) was submitted on 15th March 2022 for a proposed development of 21 holiday lodges. This application presented weekday and weekend trip rates and subsequently received highway approval from LCC on 28th June 2022. The trip rates presented in this application were also advised for use by LCC for a recent planning application of similar nature in Barrow Hill Quarry and were subsequently approved. It is therefore considered that the following weekday trip rates should be acceptable to the Highway Authority (per holiday let):

- morning peak (0800 to 0900 hours) 0.045 arrive 0.058 depart
- evening peak (1700 to 1800 hours) 0.214 arrive 0.179 depart
- daily (0700 to 2200) 1.872 arrive 1.437 depart

3.3 Using the above trip rates, the proposed 31 holiday lets could generate the following traffic movements during the weekday:

- morning peak 1 arrive 2 depart 4 total
- evening peak 7 arrive 6 depart 13 total
- daily 58 arrive 45 depart 103 total

3.4 In terms of weekend vehicle movements, the above application presented the following weekend trip rates (per holiday let):

- morning peak (1100 to 1200 hours) 0.077 arrive 0.103 depart
- evening peak (1700 to 1800 hours) 0.112 arrive 0.092 depart
- daily (0700 to 2100 hours) 1.056 arrive 0.965 depart

3.5 Using the above trip rates, the proposed 31 holiday lets could generate the following traffic movements during the weekend:

• morning peak	2 arrive	3 depart	5 total
• evening peak	3 arrive	3 depart	6 total
• daily	33 arrive	30 depart	63 total

3.6 The above assessment confirms that the proposed 31 holiday lets could generate up to 103 daily two-way movements, with up to 13 two-way movements during the busiest weekday evening peak hour. This represents an additional movement on average every 5 minutes. Due to this, it is considered that the proposed development would not result in a 'severe cumulative impact' on the surrounding highway network and therefore complies with Paragraph 111 of the NPPF.

Access and Visibility

3.7 As highlighted in Section 2 of this report, the proposed site is currently accessed through a vehicle crossover arrangement. This existing access would be improved as part of the proposals.

3.8 Table DG1 of the Leicestershire Highways Design Guide provides guidance on the general geometry of residential roads. It states that a 'Residential Access Road' should provide a 5.5 metres wide carriageway and can serve up to 150 dwellings from a single point of access. Although the proposed development is not a residential site, it is considered that this layout would be suitable to serve the proposals. This is due to the site requiring access by similar types of vehicles to a residential development, comprising mainly of car-based traffic. Considering this, Table DG5 of the Design Guide outlines that residential access junctions should provide corner radii of 6 metres. **Drawing Number F23010/01 Viewport 1** demonstrates how the proposed site access would provide these required dimensions.

3.9 Using the ATC results, accurate visibility splay requirements can be calculated. The ATCs recorded 85th percentile speeds of 45.40mph (73.05kph) in the northbound direction and 46.40mph (74.66kph) in the southbound direction. As these recorded

85th percentile speeds were above 60kph in both directions, the visibility splay requirements have been calculated in accordance with the desirable formula contained in Table 10.1 of the Manual for Streets 2 document. Hence a 2-second perception reaction time and a 0.25g deceleration rate have been used. A topographical survey was carried out along Leicester Road. To the north of the site, the survey only extended to a distance of approximately 57 metres from the access point. Onsite observations suggest the gradient increased at a constant rate and therefore the gradient has been calculated using the 57 metres of survey data. To the south, the topographical survey extends for the full length of the splay and therefore the gradient was calculated over a distance of 130 metres. Using the above approach, the gradient to the north of the access was calculated at 4.4% whilst to the south it was calculated at 3.1%. These values were used in the visibility calculations.

- 3.10 **Tables 7 and 8** show that by adopting the above approach, visibility splays of 118 metres to the south (northbound traffic) and 151 metres to the north (southbound traffic) would be required from the access.
- 3.11 **Drawing Number F23010/01 Viewport 2** demonstrates how the required visibility splays are achievable at the site access from a 2.4 metres setback distance to a point 1 metre into the carriageway in both directions as per DG2a of the Leicestershire Highways Design Guide.
- 3.12 LCC should therefore be comfortable that a suitable access strategy could be provided for all uses in accordance with Paragraph 110 of NPPF.

Parking

- 3.13 **Appendix A** demonstrates how the proposed development would provide a total of 43 parking spaces.
- 3.14 Hinckley and Bosworth Borough Council provide the following parking standards for residential developments with Appendix D of the Local Plan documents.
- *Dwellings 4 or more beds = 3 spaces*
 - *Dwellings 3 or less beds = 2 spaces*

- 3.15 Based on the above standards the proposed development should provide a total of 60 spaces (30 x 2). It is acknowledged that the proposed development would not meet these standards and therefore further assessment has been carried out below.
- 3.16 Given the nature of the proposals are not for a typical residential development a review of similar applications within the Leicestershire area has been undertaken to establish a suitable parking strategy. The application used above for the trip rates did not provide a detailed approach to parking therefore a different application has been reviewed. An application (Harborough District Council Planning Reference: 20/01203/FUL) was granted planning permission on 21st July 2022 for 8 chalets, 4 camping pods, equestrian facilities and an extension to the existing angling lake. As part of this application, the following parking strategy was approved by LCC:
- 1 space per 1-bed holiday let
 - 2 spaces per 2-bed holiday let
 - 3 spaces per 3-bed holiday let
- 3.17 The proposed 30 holiday lets would be split into 20 one-beds and 10 two-beds. Using the above approach (previously consented to by LCC), the proposed development should provide a total of 40 spaces (20 + (10 x 2)) for the holiday lets. The proposals meet these requirements and provide an additional 3 spaces for the management building. All spaces would provide a minimum of 2.4 x 5.5 metres in line with the LCC Highways Design Guide.

Servicing

- 3.18 Paragraph 3.197 of the Leicestershire Highway Design Guide, states “*where a development is situated more than 45m from the highway, you must cater for emergency vehicles by constructing the drive and any turning areas so they can cater for a commercial or service vehicle*”. **Drawing Number F23010/02** demonstrates how a fire tender could access, egress and manoeuvre around the internal loop road.
- 3.19 **Drawing Number F23010/03** demonstrates how a refuse vehicle could access, egress and manoeuvre around the site. Servicing at the site would be managed by

onsite staff and would likely include communal bin store areas. It is recommended that any future site masterplan includes these bin collection points and makes sure that these areas are accessible for refuse collection vehicles.

- 3.20 Due to the nature of the proposals, refuse collection may be undertaken by a private/commercial operator. This would allow the applicant flexibility in the type and size of refuse collection vehicle used. The above refuse collection strategy is therefore considered to be robust and in reality, a smaller vehicle may be used. LCC should therefore be satisfied that a suitable servicing strategy could be provided at the site.

4.0 CONCLUSIONS

- 4.1 Bancroft Consulting was appointed Opes 2013 MRF Limited, to provide highways and transport advice in respect of proposals for development on land to the west of Leicester Road in Barwell, Leicestershire. **Figure 1** shows the site location in context with its local surroundings.
- 4.2 **Appendix A** contains the latest site masterplan, which demonstrates that the proposals consist of 20 one-bed holiday 'pods' and 10 two-bed holiday 'lodges' plus a management building. The proposals would be served by an improved access off Leicester Road.
- 4.3 To understand traffic conditions along Leicester Road, ATCs were installed either side of the access. The data demonstrates that vehicles travel slightly above the 40 mph speed limit along Leicester Road on approach to the site in both directions.
- 4.4 The proposed development could generate up to 103 daily two-way movements, with up to 13 two-way movements during the busiest weekday evening peak hour. This represents an additional movement on average every 5 minutes. It is therefore considered that the proposed development would not result in a 'severe cumulative impact' on the surrounding highway network and therefore complies with Paragraph 111 of the NPPF.
- 4.5 **Drawing Number F23010/01** demonstrates how the existing site access would be improved to provide a 5.5-metre wide carriageway and a 6 metres kerb radii in accordance with the standards set out by LCC. **Drawing Number F23010/01 Viewport 2** demonstrates how the required visibility splays are achievable at the site access from a 2.4 metres setback distance to a point 1 metre into the carriageway in both directions as per DG2a of the Leicestershire Highways Design Guide.
- 4.6 The proposed development would provide a total of 43 spaces. This is in line with an approach previously agreed upon by LCC for a similar application in Dunton Bassett. All spaces would provide a minimum of 2.4 x 5.5 metres in line with the LCC Highways Design Guide.

- 4.7 **Drawing Numbers F23010/02 and F23010/03** demonstrate how both a fire tender and refuse vehicle could manoeuvre around the site and perform required turning movements. Servicing at the site would be managed by onsite staff and would likely include communal bin store areas. It is recommended that any future site masterplan includes these bin collection points and makes sure that these areas are accessible for refuse collection vehicles.
- 4.8 In summary, this report has demonstrated that the proposed development complies with current planning and best practice design guidance, including Paragraph 110(b) of the National Planning Policy Framework, with regard to “safe and suitable” access. It has also established that the development would not result in a severe off-site impact in accordance with Paragraph 111 of the NPPF. Hence, based on this Highway Impact Assessment, the local highway authority should be in a position to offer their support of the scheme during any future planning application.

Period beginning	THURSDAY 20/04/23		FRIDAY 21/04/23		SATURDAY 22/04/23		SUNDAY 23/04/23		MONDAY 24/04/23		TUESDAY 25/04/23		WEDNESDAY 26/04/23		Weekday Average		7 Day Average	
	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV
00:00	20	0	22	1	37	1	46	1	17	0	14	1	11	0	17	9	24	1
01:00	10	1	16	0	20	1	33	3	10	0	7	0	14	0	11	0	16	1
02:00	5	0	9	0	16	1	15	0	4	0	3	0	9	2	6	0	9	0
03:00	14	0	10	1	13	2	9	0	4	0	8	1	11	0	9	0	10	1
04:00	5	0	12	0	10	1	8	0	9	1	11	0	11	1	10	0	9	0
05:00	23	3	19	2	15	2	8	3	27	2	23	1	25	2	23	2	20	2
06:00	73	11	41	5	33	4	24	2	67	14	84	10	74	10	68	10	57	8
07:00	194	23	169	18	72	9	37	2	188	28	179	19	194	21	185	22	148	17
08:00	340	40	367	36	145	22	60	7	347	27	348	33	351	35	351	34	280	29
09:00	311	47	299	39	235	21	105	12	266	35	260	33	264	36	280	38	249	32
10:00	279	36	278	30	362	26	247	13	269	36	255	28	265	38	269	34	279	30
11:00	303	37	305	24	386	17	316	15	313	29	250	27	294	26	293	29	310	25
12:00	345	36	331	31	398	27	353	19	316	25	315	32	297	35	321	32	336	29
13:00	305	27	354	20	373	13	359	20	294	31	306	22	315	32	315	26	329	24
14:00	381	35	445	35	379	15	329	14	421	39	428	40	403	41	416	38	398	31
15:00	493	41	532	56	379	18	327	14	489	35	534	42	511	44	512	44	466	36
16:00	522	42	550	42	350	17	308	12	514	55	523	40	519	49	526	46	469	37
17:00	548	32	504	27	323	20	213	13	528	30	524	38	610	31	543	32	464	27
18:00	408	18	400	24	321	14	219	13	395	18	377	22	395	21	395	21	359	19
19:00	280	12	254	10	245	11	163	10	250	15	271	17	300	14	271	14	252	13
20:00	236	13	186	14	154	10	130	7	174	11	195	8	223	8	203	11	185	10
21:00	156	7	139	9	123	6	71	7	128	6	146	6	138	3	141	6	129	6
22:00	103	5	92	2	107	3	64	0	93	4	93	6	91	5	94	4	92	4
23:00	41	4	56	1	68	2	26	0	46	2	38	3	32	2	43	2	44	2
Totals -																		
12hr 7-19	4429	414	4534	382	3723	219	2873	154	4340	388	4299	376	4418	409	4404	394	4088	335
18hr 6-24	5318	466	5302	423	4453	255	3351	180	5098	440	5126	426	5276	451	5224	441	4846	377
24hr 0-24	5395	470	5390	427	4564	263	3470	187	5169	443	5192	429	5357	456	5301	453	4934	382
7 day average speed			37.9															
7 day average 85th percentile			44.0															

TABLE 1: SUMMARY OF ATC 1 DATA (NORTHERN SITE) - LEICESTER ROAD - NORTHBOUND

Period beginning	THURSDAY 20/04/23		FRIDAY 21/04/23		SATURDAY 22/04/23		SUNDAY 23/04/23		MONDAY 24/04/23		TUESDAY 25/04/23		WEDNESDAY 26/04/23		Weekday Average		7 Day Average		
	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	
00:00	16	2	13	2	20	1	51	4	16	2	12	1	13	2	14	7	20	2	
01:00	7	1	10	0	20	0	26	2	8	1	4	0	14	0	9	0	13	1	
02:00	10	0	9	1	12	0	13	0	11	1	6	0	4	0	8	0	9	0	
03:00	11	2	17	1	21	3	12	0	17	3	18	3	22	3	17	2	17	2	
04:00	32	5	35	6	15	2	17	3	42	5	41	5	40	5	38	5	32	4	
05:00	131	17	119	12	41	6	20	1	132	14	122	10	127	15	126	14	99	11	
06:00	262	33	223	26	92	8	58	3	265	32	268	38	272	36	258	33	206	25	
07:00	567	74	507	63	197	24	86	10	580	75	606	80	578	70	568	72	446	57	
08:00	583	53	611	52	326	37	165	10	674	88	659	54	652	60	636	61	524	51	
09:00	393	38	425	44	466	29	266	16	425	47	432	43	415	53	418	45	403	39	
10:00	386	51	359	37	421	29	404	18	365	50	318	39	370	53	360	46	375	40	
11:00	309	54	373	40	470	40	364	25	345	53	325	40	340	43	338	46	361	42	
12:00	350	42	328	23	465	33	387	26	318	32	309	48	310	33	323	36	352	34	
13:00	360	45	394	38	376	27	363	21	324	38	341	32	295	37	343	38	350	34	
14:00	359	50	382	42	347	19	308	24	362	42	348	38	347	43	360	43	350	37	
15:00	431	49	482	46	312	23	279	13	406	50	447	43	424	42	438	46	397	38	
16:00	425	35	374	29	291	19	210	13	402	54	438	51	440	47	416	43	369	35	
17:00	423	33	400	25	285	20	212	9	440	39	386	34	452	33	420	33	371	28	
18:00	342	13	298	22	281	14	175	10	316	18	304	22	327	29	317	21	292	18	
19:00	229	16	215	17	206	9	147	8	236	12	218	18	214	15	222	16	209	14	
20:00	148	10	169	10	139	10	108	10	139	10	137	4	148	14	148	10	141	10	
21:00	98	5	107	5	98	5	86	5	76	5	62	1	89	7	86	5	88	5	
22:00	60	4	77	3	88	3	42	2	52	2	55	4	55	2	60	3	61	3	
23:00	24	4	44	1	56	1	20	0	20	2	29	1	25	0	28	2	31	1	
Totals																			
12hr 7-19	4928	537	4933	461	4237	314	3219	195	4957	586	4913	524	4950	543	4936	530	4591	451	
18hr 6-24	5749	609	5768	523	4916	350	3680	223	5745	649	5682	590	5753	617	5739	598	5328	509	
24hr 0-24	5956	636	5971	545	5045	362	3819	233	5971	675	5885	609	5973	642	5951	626	5517	529	
7 day average speed																			
7 day average 85th percentile																			

TABLE 2: SUMMARY OF ATC 1 DATA (NORTHERN SITE) - LEICESTER ROAD - SOUTHBOUND

Period beginning	THURSDAY 20/04/23		FRIDAY 21/04/23		SATURDAY 22/04/23		SUNDAY 23/04/23		MONDAY 24/04/23		TUESDAY 25/04/23		WEDNESDAY 26/04/23		Weekday Average		7 Day Average	
	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV
	36	2	35	3	57	2	97	5	33	2	26	2	24	2	31	15	44	3
01:00	17	2	26	0	40	1	59	5	18	1	11	0	28	0	20	1	28	1
02:00	15	0	18	1	28	1	28	0	15	1	9	0	13	2	14	1	18	1
03:00	25	2	27	2	34	5	21	0	21	3	26	4	33	3	26	3	27	3
04:00	37	5	47	6	25	3	25	3	51	6	52	5	51	6	48	6	41	5
05:00	154	20	138	14	56	8	28	4	159	16	145	11	152	17	150	16	119	13
06:00	335	44	264	31	125	12	82	5	332	46	352	48	346	46	326	43	262	33
07:00	761	97	676	81	269	33	123	12	768	103	785	99	772	91	752	94	593	74
08:00	923	93	978	88	471	59	225	17	1021	115	1007	87	1003	95	986	96	804	79
09:00	704	85	724	83	701	50	371	28	691	82	692	76	679	89	698	83	652	70
10:00	665	87	637	67	783	55	651	31	634	86	573	67	635	91	629	80	654	69
11:00	612	91	678	64	856	57	680	40	658	82	575	67	634	69	631	75	670	67
12:00	695	78	659	54	863	60	740	45	634	57	624	80	607	68	644	67	689	63
13:00	665	72	748	58	749	40	722	41	618	69	647	54	610	69	658	64	680	58
14:00	740	85	827	77	726	34	637	38	783	81	776	78	750	84	775	81	748	68
15:00	924	90	1014	102	691	41	606	27	895	85	981	85	935	86	950	90	864	74
16:00	947	77	924	71	641	36	518	25	916	109	961	91	959	96	941	89	838	72
17:00	971	65	904	52	608	40	425	22	968	69	910	72	1062	64	963	64	835	55
18:00	750	31	698	46	602	28	394	23	711	36	681	44	722	50	712	41	651	37
19:00	509	28	469	27	451	20	310	18	486	27	489	35	514	29	493	29	461	26
20:00	384	23	355	24	293	20	238	17	313	21	332	12	371	22	351	20	327	20
21:00	254	12	246	14	221	11	157	12	204	11	208	7	227	10	228	11	217	11
22:00	163	9	169	5	195	6	106	2	145	6	148	10	146	7	154	7	153	6
23:00	65	8	100	2	124	3	46	0	66	4	67	4	57	2	71	4	75	3
Totals																		
12hr 7-19	9357	951	9467	843	7960	533	6092	349	9297	974	9212	900	9368	952	9340	924	8679	786
18hr 6-24	11067	1075	11070	946	9369	605	7031	403	10843	1089	10808	1016	11029	1068	10963	1039	10174	886
24hr 0-24	11351	1106	11361	972	9609	625	7289	420	11140	1118	11077	1038	11330	1098	11252	1080	10451	911

TABLE 3: SUMMARY OF ATC 1 DATA (NORTHERN SITE) - LEICESTER ROAD - TWO WAY

Period beginning	THURSDAY 20/04/23		FRIDAY 21/04/23		SATURDAY 22/04/23		SUNDAY 23/04/23		MONDAY 24/04/23		TUESDAY 25/04/23		WEDNESDAY 26/04/23		Weekday Average		7 Day Average	
	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV
00:00	20	0	22	1	37	1	46	1	17	0	14	1	11	1	17	9	24	1
01:00	10	1	15	0	20	1	34	3	10	0	7	0	14	0	11	0	16	1
02:00	6	0	9	0	16	2	15	0	4	0	3	0	9	1	6	0	9	0
03:00	14	0	10	1	13	2	9	0	4	0	8	1	11	0	9	0	10	1
04:00	5	0	12	1	10	1	8	0	9	1	11	0	11	1	10	1	9	1
05:00	25	3	19	2	16	2	8	3	28	3	24	1	25	2	24	2	21	2
06:00	76	13	43	5	33	4	25	1	69	12	82	10	75	7	69	9	58	7
07:00	196	27	170	19	76	8	37	2	197	25	178	17	192	29	187	23	149	18
08:00	347	35	371	35	141	19	64	7	352	32	363	30	349	35	356	33	284	28
09:00	305	43	296	45	231	15	106	11	263	35	269	35	272	36	281	39	249	31
10:00	279	35	284	34	352	25	251	12	274	34	248	31	271	39	271	35	280	30
11:00	310	38	317	26	391	19	325	16	311	32	258	27	298	25	299	30	316	26
12:00	346	38	344	31	410	28	345	20	324	26	316	35	300	37	326	33	341	31
13:00	295	28	367	32	351	16	360	21	297	34	313	20	324	36	319	30	330	27
14:00	382	43	445	39	388	14	330	13	415	40	424	39	407	40	415	40	399	33
15:00	475	44	527	61	375	17	322	14	475	38	532	54	518	50	505	49	461	40
16:00	528	46	531	45	346	17	315	12	514	59	523	40	509	59	521	50	467	40
17:00	537	37	515	35	327	18	209	13	544	26	515	35	609	28	544	32	465	27
18:00	415	23	397	23	329	12	220	12	392	19	384	21	394	29	396	23	362	20
19:00	274	12	259	10	249	13	161	9	254	15	269	17	295	19	270	15	252	14
20:00	234	12	183	14	156	10	126	8	171	9	192	8	226	7	201	10	184	10
21:00	155	5	139	8	125	5	72	6	128	6	147	8	138	3	141	6	129	6
22:00	103	6	89	2	107	2	64	0	94	4	92	6	91	6	94	5	91	4
23:00	42	2	57	1	68	1	26	0	46	2	38	2	32	2	43	2	44	1
Totals -																		
12hr 7-19	4415	437	4564	425	3717	208	2884	153	4358	400	4323	384	4443	443	4421	418	4101	350
18hr 6-24	5299	487	5334	465	4455	243	3358	177	5120	448	5143	435	5300	487	5239	464	4858	392
24hr 0-24	5379	491	5421	470	4567	252	3478	184	5192	452	5210	438	5381	492	5317	477	4947	397
7 day average speed	39.4																	
7 day average 85th percentile	45.4																	

TABLE 4: SUMMARY OF ATC 2 DATA (SOUTHERN SITE) - LEICESTER ROAD - NORTHBOUND

Period beginning	THURSDAY 20/04/23		FRIDAY 21/04/23		SATURDAY 22/04/23		SUNDAY 23/04/23		MONDAY 24/04/23		TUESDAY 25/04/23		WEDNESDAY 26/04/23		Weekday Average		7 Day Average	
	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV
00:00	16	2	13	2	20	1	51	3	16	2	12	1	13	2	14	7	20	2
01:00	7	1	10	1	20	0	25	3	8	0	4	0	14	0	9	0	13	1
02:00	10	0	9	1	12	0	13	0	11	1	6	0	4	0	8	0	9	0
03:00	11	2	17	1	21	3	12	0	17	3	18	2	22	3	17	2	17	2
04:00	32	5	35	6	15	2	17	3	42	5	41	5	40	5	38	5	32	4
05:00	128	17	119	11	42	6	20	1	132	17	121	12	126	14	125	14	98	11
06:00	257	34	219	24	91	8	57	2	263	37	267	37	272	32	256	33	204	25
07:00	565	75	504	66	192	24	85	11	570	75	606	82	583	71	566	74	444	58
08:00	615	63	609	56	332	37	162	10	665	89	651	60	651	62	638	66	526	54
09:00	394	37	431	45	479	34	263	17	425	48	420	41	407	53	415	45	403	39
10:00	396	51	353	40	423	29	401	19	359	53	332	38	361	53	360	47	375	40
11:00	302	50	367	45	466	41	356	29	345	53	313	38	334	41	332	45	355	42
12:00	349	47	316	28	453	38	394	25	314	30	311	45	305	35	319	37	349	35
13:00	364	43	379	42	398	28	361	23	327	35	335	32	291	39	339	38	351	35
14:00	361	50	386	45	335	21	311	20	373	45	356	41	341	41	363	44	352	38
15:00	456	49	476	48	323	23	279	13	424	46	437	46	421	51	443	48	402	39
16:00	414	37	392	32	292	22	210	11	402	55	439	49	450	49	419	44	371	36
17:00	426	25	385	31	282	21	216	9	428	38	388	35	446	38	415	33	367	28
18:00	341	16	299	27	272	13	172	9	321	22	303	18	322	32	317	23	290	20
19:00	233	14	211	19	202	10	150	8	234	13	222	19	218	15	224	16	210	14
20:00	152	11	171	14	137	10	112	11	140	11	139	6	147	16	150	12	143	11
21:00	96	8	104	8	95	5	85	5	76	4	62	2	89	8	85	6	87	6
22:00	60	4	82	3	85	3	42	2	51	2	54	3	56	3	61	3	61	3
23:00	24	4	43	1	59	1	20	0	20	2	30	1	25	0	28	2	32	1
Totals																		
12hr 7-19	4983	543	4897	505	4247	331	3210	196	4953	589	4891	525	4912	565	4927	545	4585	465
18hr 6-24	5805	618	5727	574	4916	368	3676	224	5737	658	5665	593	5719	639	5731	616	5321	525
24hr 0-24	6009	645	5930	596	5046	380	3814	234	5963	686	5867	613	5938	663	5941	646	5510	545
7 day average speed	40.5																	
7 day average 85th percentile	46.5																	

TABLE 5: SUMMARY OF ATC 2 DATA (SOUTHERN SITE) - LEICESTER ROAD - SOUTHBOUND

Period beginning	THURSDAY 20/04/23		FRIDAY 21/04/23		SATURDAY 22/04/23		SUNDAY 23/04/23		MONDAY 24/04/23		TUESDAY 25/04/23		WEDNESDAY 26/04/23		Weekday Average		7 Day Average	
	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV	Total vehicles	Total HGV
	36	2	35	3	57	2	97	4	33	2	26	2	24	3	31	16	44	3
01:00	17	2	25	1	40	1	59	6	18	0	11	0	28	0	20	1	28	1
02:00	16	0	18	1	28	2	28	0	15	1	9	0	13	1	14	1	18	1
03:00	25	2	27	2	34	5	21	0	21	3	26	3	33	3	26	3	27	3
04:00	37	5	47	7	25	3	25	3	51	6	52	5	51	6	48	6	41	5
05:00	153	20	138	13	58	8	28	4	160	20	145	13	151	16	149	16	119	13
06:00	333	47	262	29	124	12	82	3	332	49	349	47	347	39	325	42	261	32
07:00	761	102	674	85	268	32	122	13	767	100	784	99	775	100	752	97	593	76
08:00	962	98	980	91	473	56	226	17	1017	121	1014	90	1000	97	995	99	810	81
09:00	699	80	727	90	710	49	369	28	688	83	689	76	679	89	696	84	652	71
10:00	675	86	637	74	775	54	652	31	633	87	580	69	632	92	631	82	655	70
11:00	612	88	684	71	857	60	681	45	656	85	571	65	632	66	631	75	670	69
12:00	695	85	660	59	863	66	739	45	638	56	627	80	605	72	645	70	690	66
13:00	659	71	746	74	749	44	721	44	624	69	648	52	615	75	658	68	680	61
14:00	743	93	831	84	723	35	641	33	788	85	780	80	748	81	778	85	751	70
15:00	931	93	1003	109	698	40	601	27	899	84	969	100	939	101	948	97	863	79
16:00	942	83	923	77	638	39	525	23	916	114	962	89	959	108	940	94	838	76
17:00	963	62	900	66	609	39	425	22	972	64	903	70	1055	66	959	66	832	56
18:00	756	39	696	50	601	25	392	21	713	41	687	39	716	61	714	46	652	39
19:00	507	26	470	29	451	23	311	17	488	28	491	36	513	34	494	31	462	28
20:00	386	23	354	28	293	20	238	19	311	20	331	14	373	23	351	22	327	21
21:00	251	13	243	16	220	10	157	11	204	10	209	10	227	11	227	12	216	12
22:00	163	10	171	5	192	5	106	2	145	6	146	9	147	9	154	8	153	7
23:00	66	6	100	2	127	2	46	0	66	4	68	3	57	2	71	3	76	3
Totals																		
12hr 7-19	9398	980	9461	930	7964	539	6094	349	9311	989	9214	909	9355	1008	9348	963	8685	815
18hr 6-24	11104	1105	11061	1039	9371	611	7034	401	10857	1106	10808	1028	11019	1126	10970	1081	10179	917
24hr 0-24	11388	1136	11351	1066	9613	632	7292	418	11155	1138	11077	1051	11319	1155	11258	1122	10456	942

TABLE 6: SUMMARY OF ATC 2 DATA (SOUTHERN SITE) - LEICESTER ROAD - TWO WAY

Vehicle speeds

45.40 mph
73.05 kph
20.29 v (m/s)
411.74 v²

Driver Perception-Reaction time

2 t (s)

Deceleration Rate

40.58 v x t
0.25 g
2.45 d (m/s)
4.91 2d

Gradient

3.10 a *
2.76 d+0.1a
5.525 2(d+0.1a)
v t +
40.58 +

Stopping Sight Distance (SSD) =

40.58 +

SSD Bonnet Adjusted (SSD+2.4)**

117.50

Formula: SSD = vt + v²/2(d+0.1a)

	Manual for Streets 2	DMRB		
	Light Vehicles (less than 5% HGVs)	HGVs/Buses (over 5% of total vehicles)	All traffic (Maximum decel.)	All traffic (Desirable decel.)
Perception-Reaction Time (t)	1.5s	1.5s	2s	2s
Deceleration Rate (g = 9.81m/s ²)	0.45g	0.375g	0.375g	0.25g

Enter gradient as positive for uphill towards junction and negative for downhill towards junction

v² / 2(d+0.1a)

=

SSD

74.52

=

115.10

* for simplicity, gradient will be given as zero where details of levels are unavailable and observed gradients are deemed to be insignificant in terms of the effect on vehicle braking

** 2.4 metres added to splay to allow for bonnet length of approaching vehicles

TABLE 7 - VISIBILITY SPLAY CALCULATOR: CHURCH LANE, BRAINTREE - ATC 2 NORTHBOUND

Vehicle speeds

46.40 mph
74.66 kph
20.74 v (m/s)
430.07 v²

Driver Perception-Reaction time

2 t (s)

Deceleration Rate

41.48 v x t
0.25 g
2.45 d (m/s)
4.91 2d

Gradient

2.01 d+0.1a
4.025 2(d+0.1a)
-4.40 a*

Stopping Sight Distance (SSD) =

41.48 +

SSD Bonnet Adjusted (SSD+2.4)**

150.73

Formula: SSD = vt + v²/2(d+0.1a)

	Manual for Streets 2	DMRB		
	Light Vehicles (less than 5% HGVs)	HGVs/Buses (over 5% of total vehicles)	All traffic (Maximum decel.)	All traffic (Desirable decel.)
Perception-Reaction Time (t)	1.5s	1.5s	2s	2s
Deceleration Rate (g = 9.81m/s ²)	0.45g	0.375g	0.375g	0.25g

Enter gradient as positive for uphill towards junction and negative for downhill towards junction

v² / 2(d+0.1a)

106.85

=

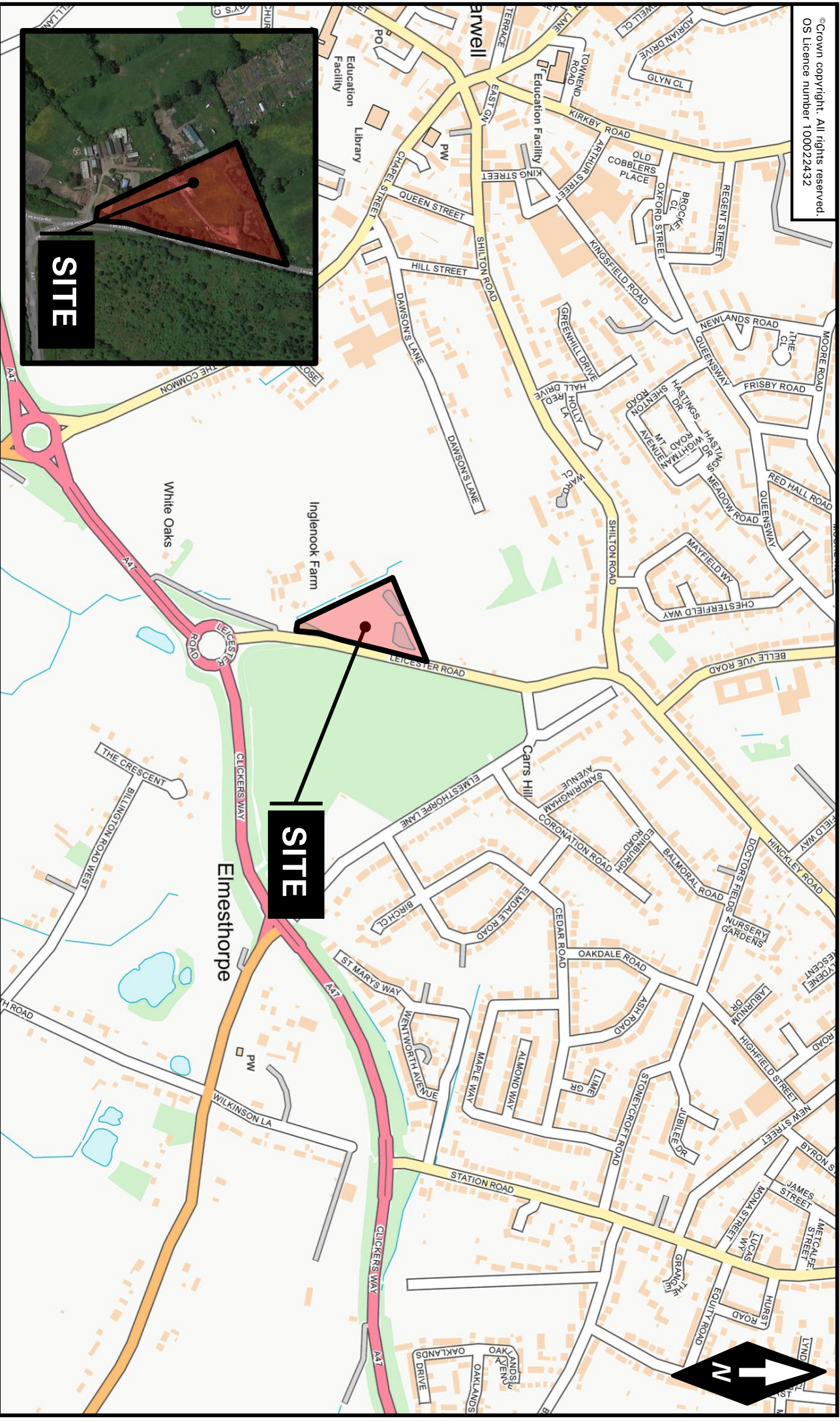
SSD

148.33

* for simplicity, gradient will be given as zero where details of levels are unavailable and observed gradients are deemed to be insignificant in terms of the effect on vehicle braking

** 2.4 metres added to splay to allow for bonnet length of approaching vehicles

TABLE 8 - VISIBILITY SPLAY CALCULATOR: CHURCH LANE, BRAINTREE - ATC 1 SOUTHBOUND



SCALE: **Do Not Scale**

DATE: **03.04.23**

DRAWN: **MB**

CLIENT: **INGLE NOOK FARM**

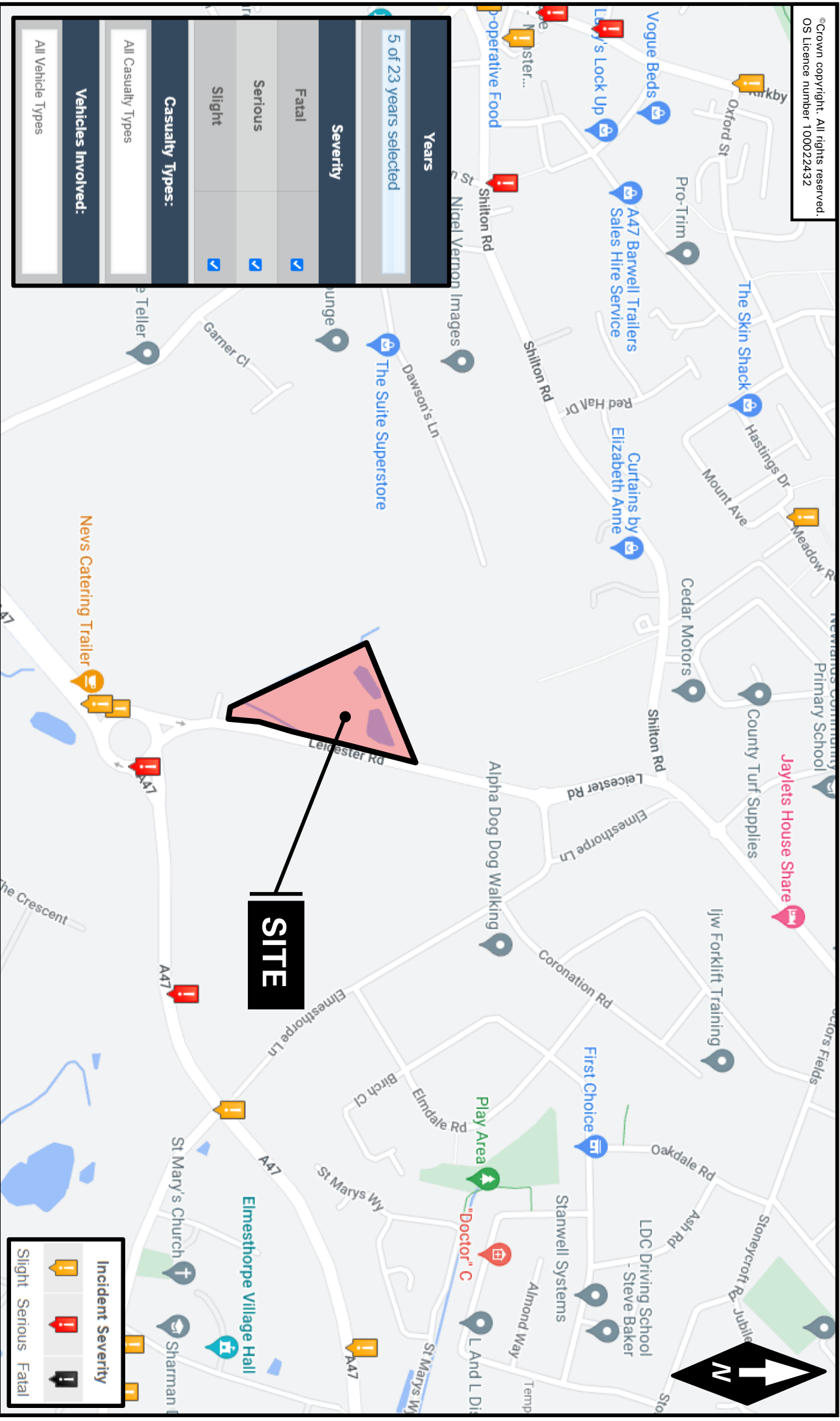
JOB TITLE: **OPES 2013 MRF LIMITED**



TITLE: **DETAILED SITE LOCATION PLAN**

JOB NUMBER: **F23010**

FIGURE: **1**



Years

5 of 23 years selected

Severity

Fatal	☒
Serious	☒
Slight	☒

Casualty Types:

All Casualty Types

Vehicles Involved:

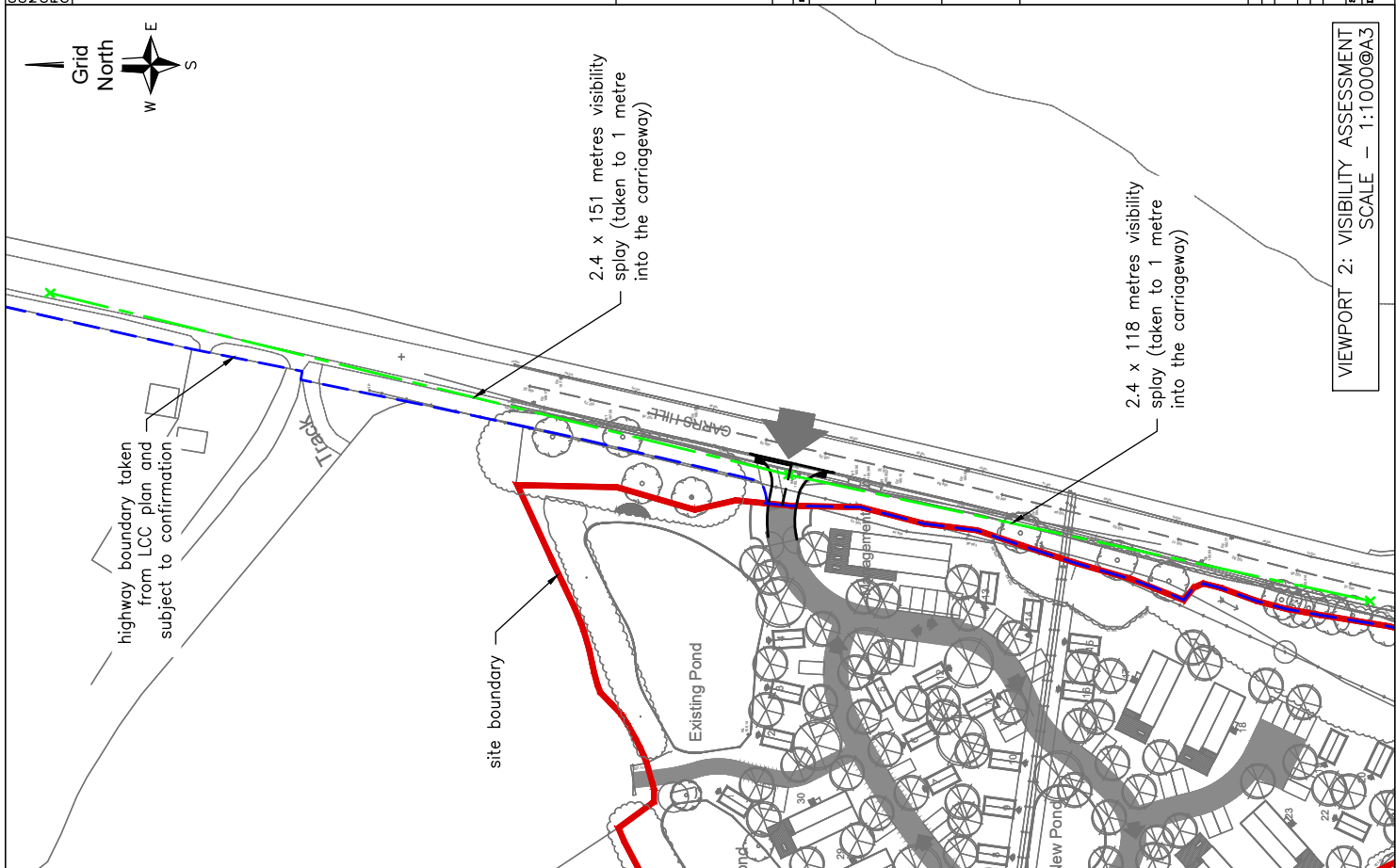
All Vehicle Types

Incident Severity

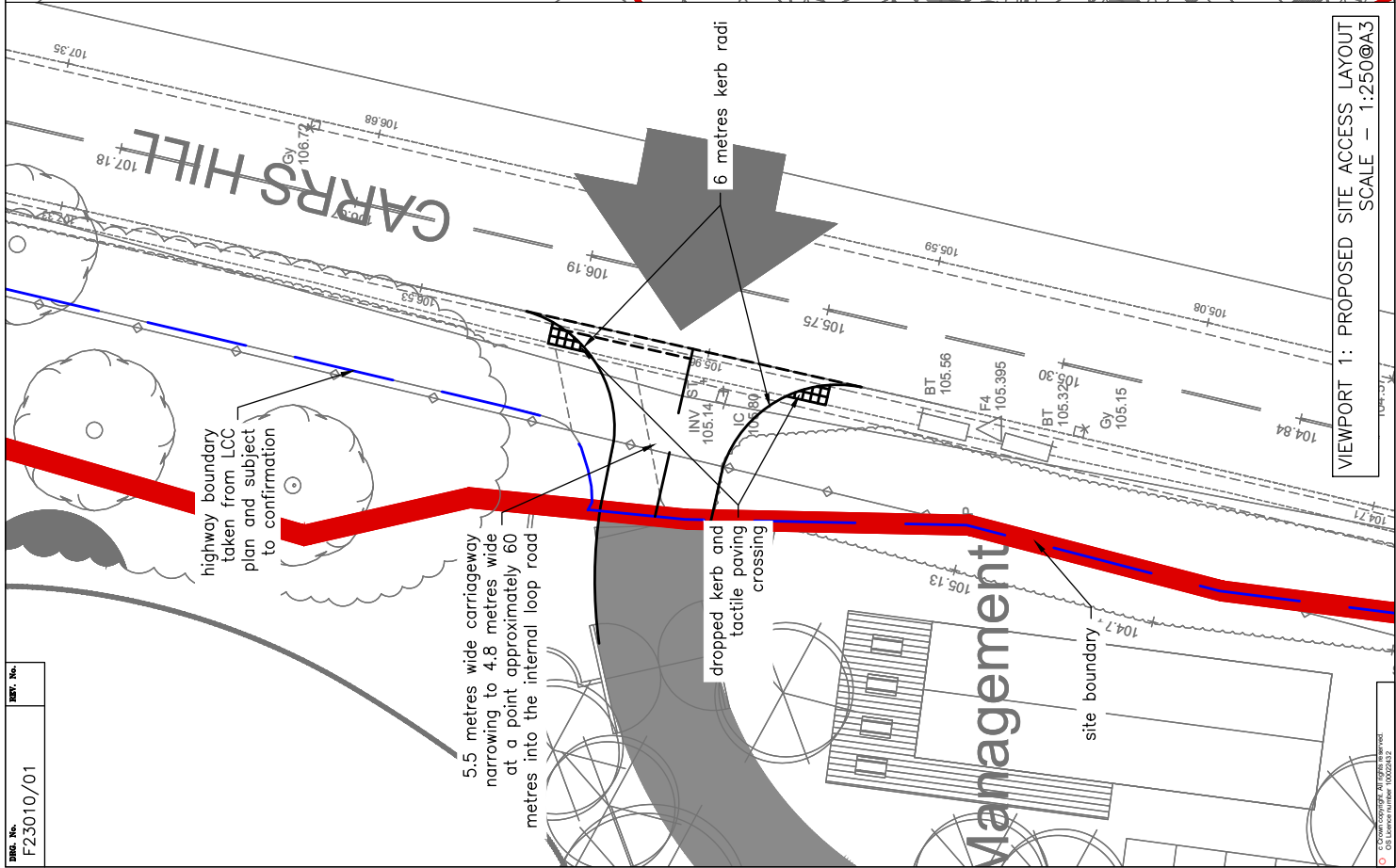
--	--	--

Slight Serious Fatal

SCALE: Do Not Scale	CLIENT: INGLE NOOK FARM	JOB TITLE: OPES 2013 MRF LIMITED		
DATE: 03.04.23	TITLE: ACCIDENT DATA TAKEN FROM CRASHMAP.CO.UK (2017-2021)			JOB NUMBER: F23010
DRAWN: MB				FIGURE: 2



VIEWPORT 2: VISIBILITY ASSESSMENT
SCALE — 1:1000@A3



VIEWPORT 1: PROPOSED SITE ACCESS LAYOUT
SCALE — 1:250@A3

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NOTES:

Dennis Sabre Fire Tender (LWB)
 Overall Length 7.700m
 Overall Width 3.512m
 Overall Height 2.430m
 Wheelbase 2.300m
 Track Width 2.300m
 Track to hook time 1.000m
 Kears to Kears Turning Radius 7.400m

REV.	DATE	DESCRIPTION	BY	CHKD

CLIENT
OPES 2013 MRF LIMITED

CONTRACT
INGLE NOOK FARM, BARWELL

TITLE
SWEPT PATH ASSESSMENT (FIRE TENDER)

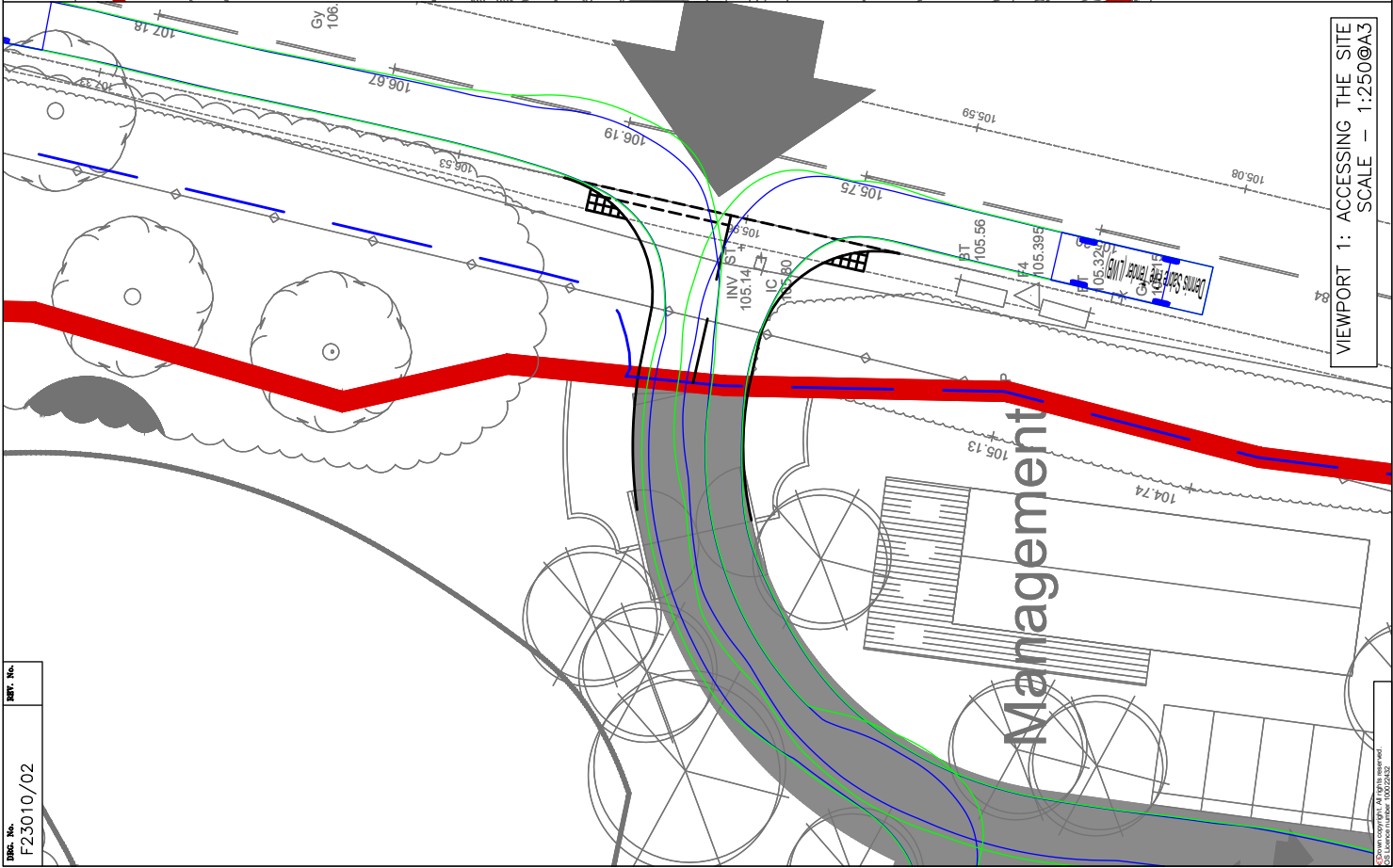
BANCROFT CONSULTING
 Bancroft Consulting Ltd
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 7 Gregory Boulevard
 Nottingham
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 t 0115 9602919
 f 0115 9648201
 e office@bancroftconsulting.co.uk

NAME (PRINT)	DATE
MB	22.05.23

NAME (PRINT)	DATE
CJB	22.05.23

SCALE AS SHOWN STATUS PRELIMINARY

DRG. NO. F23010/02



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NOVEMBER

Phoenix 2 Die (P2-15W with Elite 6x4 chassis)

Overall Width

11.200m

Overall Body Height

3.751m

Track Width

2.500m

Lock to lock time

9.500m

Lock to lock time

9.500m

OPES 2013 MRF LIMITED

CLIENT

DATE

DATE

DATE

DATE

CONTRACT

INGLE NOOK FARM, BARWELL

TITLE

SWEPT PATH ASSESSMENT
(REFUSE COLLECTION VEHICLE)

BANCROFT CONSULTING

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Jarrodale House

7 Gregory Boulevard

Nottingham

NG7 6LB

0115 9602919

0115 9648201

office@bancroftconsulting.co.uk

NAME (PRINT)

DATE

MB

22.05.23

NAME (PRINT)

DATE

CJB

22.05.23

SCALE AS SHOWN

STATUS

PRELIMINARY

DWG. NO.

F23010/03

Grid North

Existing Pond

New Pond

VIEWPORT 2: INTERNAL MANOEUVRE
SCALE - 1:500@A3

VIEWPORT 1: ACCESSING THE SITE
SCALE - 1:250@A3

anagement

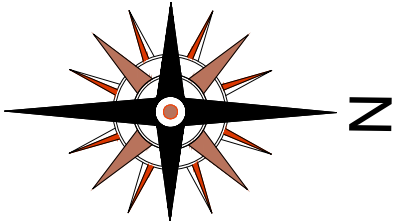
DWG. No.
F23010/03

REV. No.
REV. No.

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APPENDIX A – SITE PLAN

This drawing is made under the copyright designs & patents act 1988. Do not scale. All dimensions are to be taken as current information. All dimensions coordinate and confirmed on site prior to any works being undertaken.



DRAFT



Rev D Revised to reflect tree survey. 2/06/23
Rev C Redraw based on survey and revised 15/03/23
main access point.

Ingenook Farm
Barwell

Scale: 1:500 @ A1 Date: Jan 2023
Dwg No. 1003 Revision: D

Brook House Consulting

BHC 72 Barton Road
Leicester LE4 1HB

Tel: 0116 2169415 E-mail: mail@brookhouseconsulting.com

All landscaping indicative only

**APPENDIX B – EMAIL CONVERSATION WITH BEN DUTTON
REGARDING ATCS**

From: [Ben T Dutton](#)
To: [May Burke](#)
Subject: RE: Third party traffic survey licence request FS-Case-502911743
Date: 31 March 2023 11:00:21
Attachments: [image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)

Hi May,

I can confirm that the ATC's would provide more robust speed survey data given the location.

While I would have no objection to the speed survey being undertaken during the easter school holidays, I will caveat that I am unsure of what the proposals are for, or what the access arrangements would be. We **will not** accept traffic counts undertaken during school/ bank holidays and if counts are likely to be required, I would suggest the survey is undertaken once schools return to avoid further work. Should the proposals be for any form of education establishment for example, or not in operation when schools are closed, for a robust assessment it would be expected that the speed surveys were undertaken when the development was likely to be open e.g. term time.

Kind regards,

Ben Dutton
Transport Planner
Highway Development Management
Leicestershire County Council
E-mail: ben.dutton@leics.gov.uk
Tel: 0116 305 8258



From: May Burke <may@bancroftconsulting.co.uk>
Sent: 31 March 2023 10:24
To: Ben T Dutton <Ben.Dutton@leics.gov.uk>
Subject: RE: Third party traffic survey licence request FS-Case-502911743

Hi Ben,

Thanks for your email. We have taken on board your comments and are looking to get some ATCs instructed. Please could you confirm that the Highway Authority will accept 7 days worth of data from 2 ATCS located approximately 100 metres from the access (as shown in the plan) to establish accurate speeds along Leicester Road? These speeds would then be used to calculate the required visibility splays.

Kind regards,

May

May Burke
Trainee Engineering Technician
Bancroft Consulting Limited



p: [0115 9602919](tel:01159602919)

a: [Jarodale House, 7 Gregory Boulevard, Nottingham, NG7 6LB](#)



w: www.bancroftconsulting.co.uk e: office@bancroftconsulting.co.uk



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From: Ben T Dutton <Ben.Dutton@leics.gov.uk>

Sent: Thursday, March 30, 2023 4:59 PM

To: May Burke <may@bancroftconsulting.co.uk>

Subject: RE: Third party traffic survey licence request FS-Case-502911743

Hi May,

I believe the location of the speed survey is as per the below screenshot. Is it possible to clarify if the survey is to be used for an existing planning application and if so what the application reference is, or if it is to be used for a forthcoming application? Should the speed survey be used to support a forthcoming application, it would be helpful to know the nature of the proposals.

Depending on the nature of the proposals, while we would not necessarily have concerns with a speed survey being undertaken during school holidays, we would not accept traffic counts. Given the location of the survey however, on a straight 40mph C classified road it is possible that an automatic survey may be preferable as it could be quite obvious to oncoming drivers that their speeds are being recorded and subsequently affect results.



Kind regards,

Ben Dutton

Transport Planner

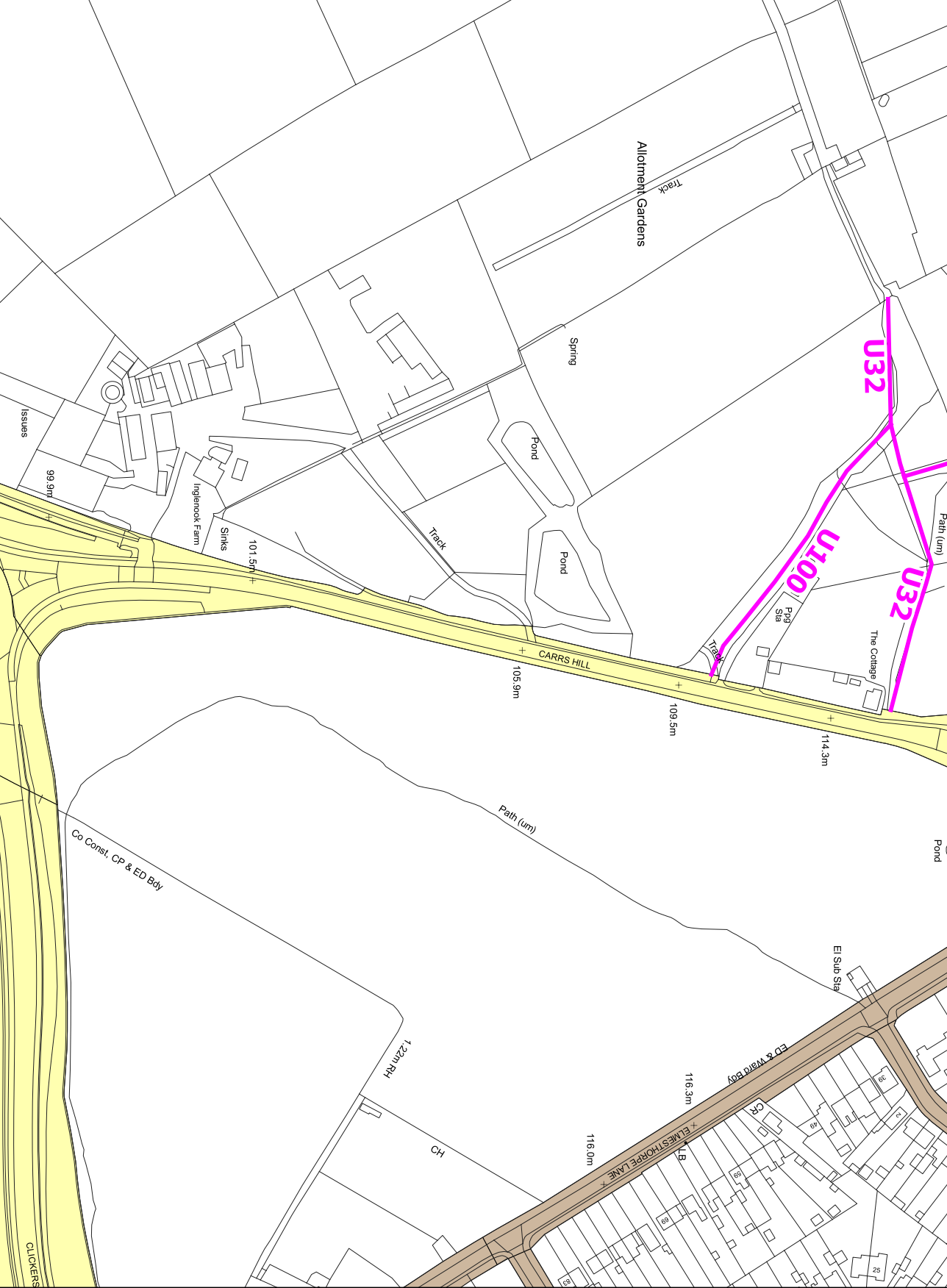
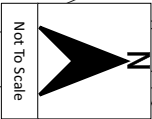
Highway Development Management

Leicestershire County Council

E-mail: ben.dutton@leics.gov.uk

Tel: 0116 305 8258

APPENDIX C – LCC HIGHWAY BOUNDARY PLAN



Key

Highway Status

Extents

Adopted: Classified Route

Adopted: Unclassified Route

Public Rights of Way

Footpath

NOTES

The highway records are not definitive, but are based on currently available supporting information and are given without warranty. If roadside ditches are present, the legal presumption without evidence to the contrary is that these do not generally form part of the publicly maintainable highway. This plan has been produced in response to the enquiry shown in the title address and should not be used for any other purpose, since its accuracy cannot be guaranteed. If a scale has been provided, measurements scaled from this plan may not match measurements between the same points on the ground.



ENVIRONMENT AND TRANSPORT
DEPARTMENT

On Behalf Of
Ann Carruthers, Director

Highway Record Enquiry

Location

Leicester Road, Barwell

Reference NDI/HRE/2303109

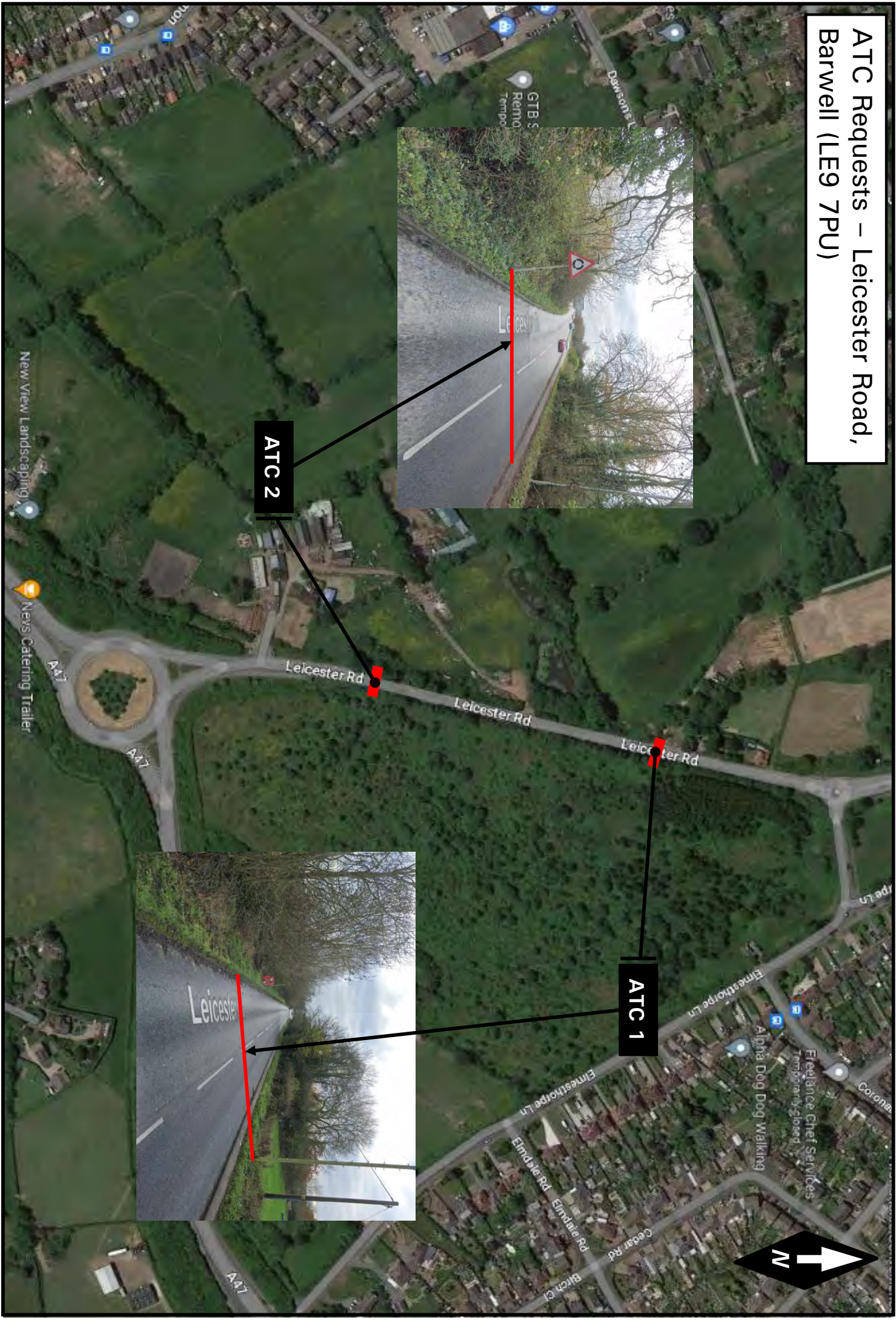
Drawing No. 100/A

Date Produced 24/04/2023

Highway Record Enquiries
County Hall, Glenfield, LE3 8RU
0116 305 7189 | hre@lincs.gov.uk

APPENDIX D – ATC RESULTS

ATC Requests – Leicester Road,
Barwell (LE9 7PU)



ATC 1

ATC 2

Road Data Services Ltd

Class No	Vehicle Description	Class No	Vehicle Description
1	Car, Light Van, Taxi 	5	Rigid 2 Axle HGV + 2 Axle (Close coupled) Trailer 
1	Light Goods Vehicle 	6	Rigid 3 Axle HGV + 2 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 1 Axle Caravan or Trailer 	6	Rigid 3 Axle HGV + 3 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 2 Axle Caravan or Trailer 	7	Artic, 2 Axle Tractor + 1 Axle Semi-Trailer 
2	Medium / Large Goods Vehicle 	8	Artic, 2 Axle Tractor + 2 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	9	Artic, 2 Axle Tractor + 3 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	10	Artic, 3 Axle Tractor + 1 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	10	Artic, 3 Axle Tractor + 2 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	11	Artic, 3 Axle Tractor + 3 Axle Semi-Trailer 
5	Rigid 2 Axle HGV + 2 Axle Drawbar Trailer 	12	Bus or Coach, 2 Axle 
5	Rigid 2 Axle HGV + 3 Axle Drawbar Trailer 	12	Bus or cCoach, 3 Axle 
5	Rigid 2 Axle HGV + 1 Axle Caravan or Trailer 	13	Vehicle with 7 or more Axles 

Classification Classes: Car/Van: 1 OGV1/Bus: 2,3,5,6,7,12 OGV2: 4,8,9,10,11,13

Barwell ATC 1, Leicester Road (Northern Site)

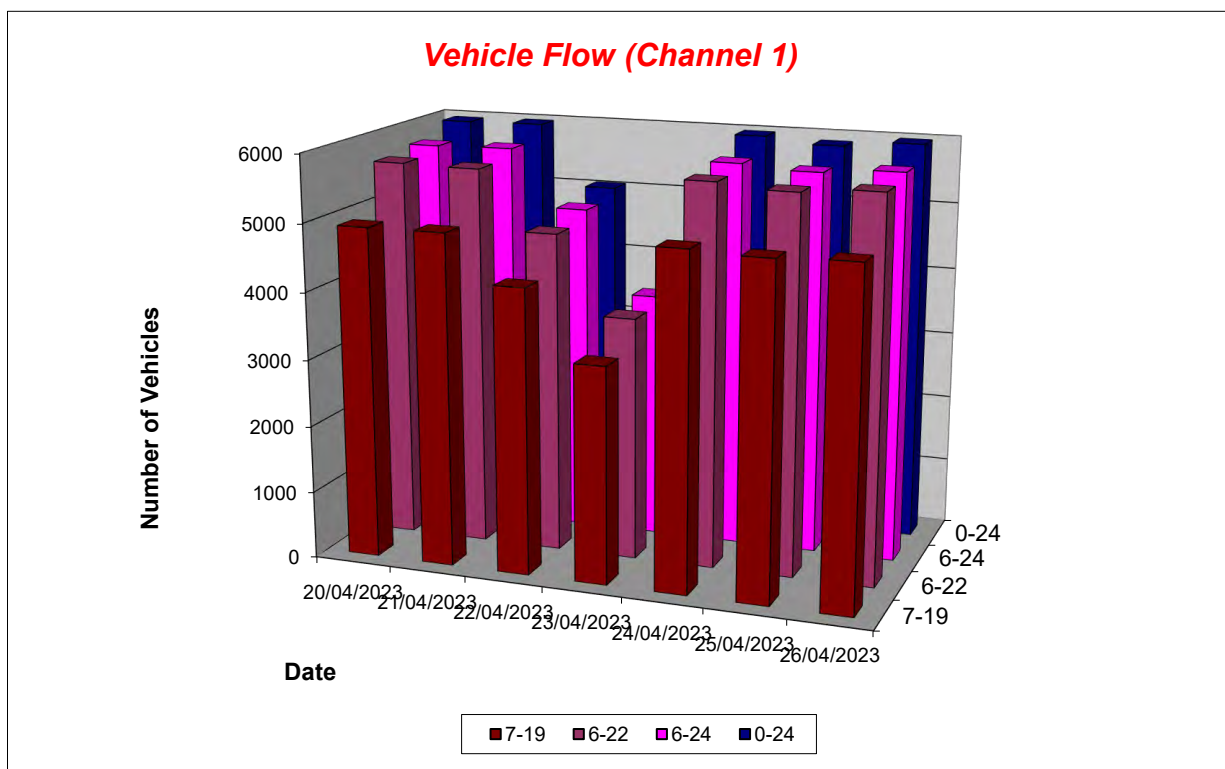
Produced by Road Data Services Ltd.

Channel 1 - Southbound

Vehicle Flow

Week 1

Hr Ending	20/04/2023 Thursday	21/04/2023 Friday	22/04/2023 Saturday	23/04/2023 Sunday	24/04/2023 Monday	25/04/2023 Tuesday	26/04/2023 Wednesday	Weekday Average	Average
1	16	13	20	51	16	12	13	14	20
2	7	10	20	26	8	4	14	9	13
3	10	9	12	13	11	6	4	8	9
4	11	17	21	12	17	18	22	17	17
5	32	35	15	17	42	41	40	38	32
6	131	119	41	20	132	122	127	126	99
7	262	223	92	58	265	268	272	258	206
8	567	507	197	86	580	606	578	568	446
9	583	611	326	165	674	659	652	636	524
10	393	425	466	266	425	432	415	418	403
11	386	359	421	404	365	318	370	360	375
12	309	373	470	364	345	325	340	338	361
13	350	328	465	387	318	309	310	323	352
14	360	394	376	363	324	341	295	343	350
15	359	382	347	308	362	348	347	360	350
16	431	482	312	279	406	447	424	438	397
17	425	374	291	210	402	438	440	416	369
18	423	400	285	212	440	386	452	420	371
19	342	298	281	175	316	304	327	317	292
20	229	215	206	147	236	218	214	222	209
21	148	169	139	108	139	137	148	148	141
22	98	107	98	86	76	62	89	86	88
23	60	77	88	42	52	55	55	60	61
24	24	44	56	20	20	29	25	28	31
7-19	4928	4933	4237	3219	4957	4913	4950	4936	4591
6-22	5665	5647	4772	3618	5673	5598	5673	5651	5235
6-24	5749	5768	4916	3680	5745	5682	5753	5739	5328
0-24	5956	5971	5045	3819	5971	5885	5973	5951	5517



Barwell ATC 1, Leicester Road (Northern Site)

Produced by Road Data Services Ltd.

Channel 1 - Southbound

Average Speed

Week 1

Hr Ending	20/04/2023 Thursday	21/04/2023 Friday	22/04/2023 Saturday	23/04/2023 Sunday	24/04/2023 Monday	25/04/2023 Tuesday	26/04/2023 Wednesday
1	42.2	39.8	39.6	40.6	40.2	42.3	43.3
2	43.7	46.8	43.0	38.4	41.5	45.0	40.8
3	41.5	48.3	38.5	40.0	38.8	37.5	32.7
4	43.1	43.4	41.7	40.5	41.9	43.1	40.4
5	42.6	43.4	42.0	37.4	43.0	41.7	41.8
6	44.2	43.4	42.4	38.6	42.9	43.7	42.7
7	42.5	41.8	42.7	41.7	42.4	42.6	42.4
8	41.3	40.2	42.4	40.8	41.0	41.1	41.0
9	37.5	38.6	40.9	41.7	39.6	38.5	39.1
10	38.7	38.8	38.3	41.6	39.3	39.5	39.0
11	38.8	38.1	40.0	39.7	39.2	39.7	39.0
12	40.1	39.4	40.1	40.6	38.9	39.6	39.2
13	40.1	40.0	40.4	41.4	39.1	39.5	40.0
14	40.1	40.3	41.0	41.2	39.1	40.4	40.0
15	40.6	39.9	41.3	41.5	40.0	40.7	40.4
16	40.5	41.1	41.2	41.7	40.4	40.3	38.3
17	40.9	41.3	41.2	41.4	40.5	40.6	40.0
18	41.0	41.1	41.0	41.3	40.9	41.2	40.5
19	41.8	41.5	42.8	42.0	41.1	41.9	41.6
20	41.8	41.8	41.3	42.7	42.1	42.4	42.3
21	41.2	41.8	42.5	40.9	40.7	42.2	42.2
22	41.8	42.4	40.8	40.6	41.5	41.2	41.1
23	41.1	41.1	39.0	41.3	40.6	40.1	40.9
24	41.9	44.2	39.3	42.4	46.0	42.1	43.3
10-12	39.4	38.7	40.0	40.2	39.1	39.6	39.1
14-16	40.6	40.6	41.2	41.6	40.2	40.5	39.2
0-24	40.4	40.4	40.7	41.1	40.3	40.6	40.2

Average (ALL)	40.5
Weekday Inter-Peak	39.7

Channel 1 - Southbound

85th Percentile

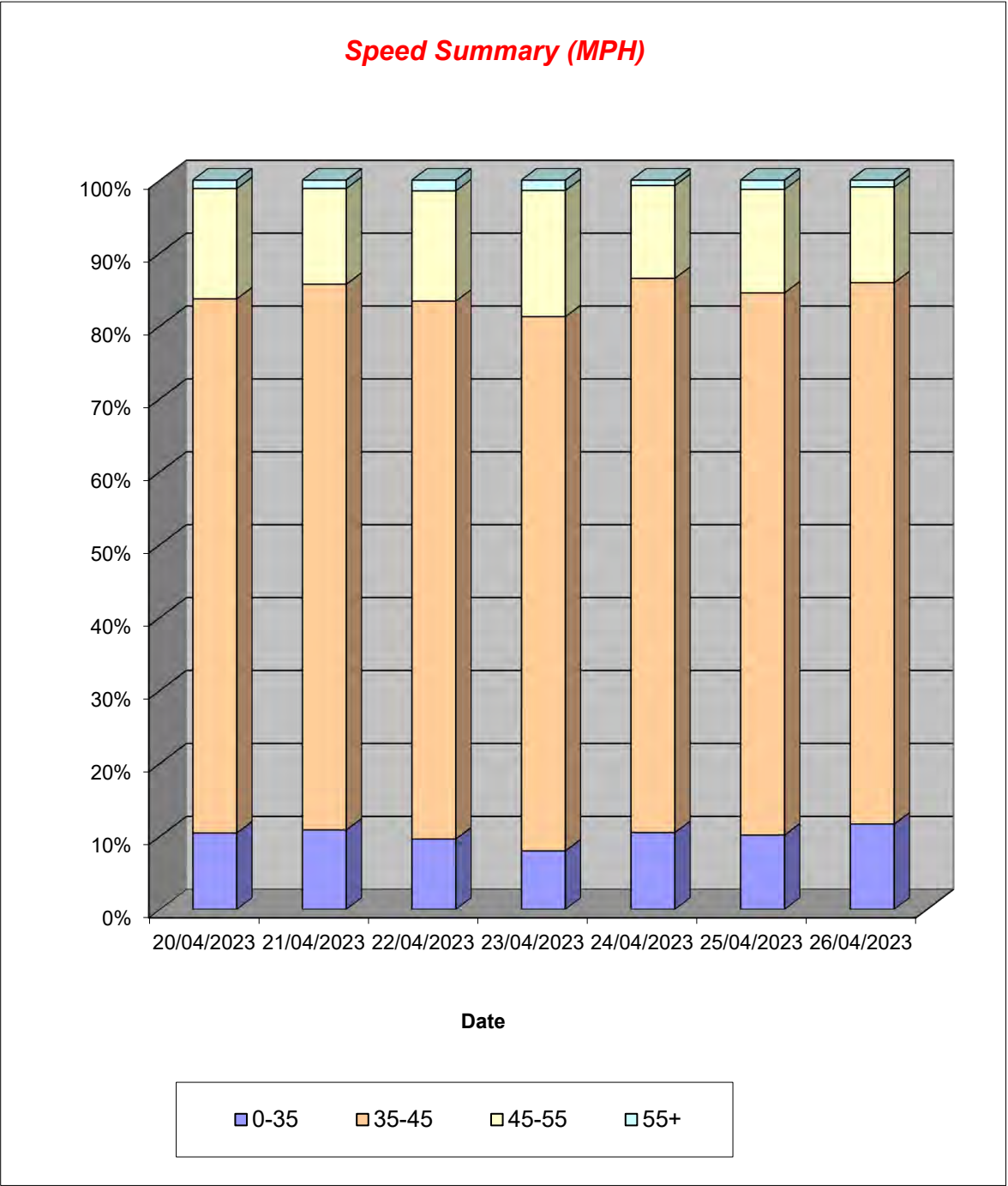
Hr Ending	20/04/2023 Thursday	21/04/2023 Friday	22/04/2023 Saturday	23/04/2023 Sunday	24/04/2023 Monday	25/04/2023 Tuesday	26/04/2023 Wednesday
1	49.8	45.6	45.3	46.7	44.6	49.1	53.4
2	51.2	58.0	51.3	45.3	49.2	57.7	48.8
3	51.1	61.3	43.6	46.4	49.9	47.2	43.2
4	49.3	48.2	48.6	44.6	47.2	48.6	45.8
5	47.1	49.8	47.4	43.4	49.6	47.9	46.8
6	50.5	49.4	48.9	43.1	48.3	49.2	48.5
7	48.7	48.0	49.1	47.9	47.9	47.9	48.9
8	46.3	45.0	49.1	47.3	45.8	45.9	46.3
9	46.5	43.1	46.7	48.1	44.6	46.6	44.0
10	45.4	43.6	45.1	46.8	45.0	44.8	44.4
11	45.8	43.5	45.2	45.9	44.2	45.8	43.9
12	45.2	44.9	45.1	45.9	43.8	45.5	44.8
13	45.3	45.3	46.0	46.5	44.8	45.9	45.0
14	45.6	46.1	46.8	46.6	44.3	46.1	44.9
15	45.8	45.2	46.9	47.6	45.2	46.2	46.4
16	46.2	46.6	47.0	47.3	45.5	45.1	46.0
17	46.5	46.6	46.8	47.2	45.8	45.6	45.1
18	46.0	46.6	46.5	47.5	46.3	47.1	46.2
19	46.9	47.2	49.3	48.2	46.3	48.4	47.1
20	48.1	47.3	47.2	49.3	48.8	48.5	48.5
21	47.6	48.7	50.0	47.4	46.8	48.2	48.1
22	48.1	49.1	47.0	46.4	47.2	47.9	47.3
23	47.8	48.0	45.3	49.1	47.4	46.9	47.4
24	49.4	54.5	44.8	48.1	54.3	49.7	48.7
10-12	45.7	44.2	45.1	46.0	44.1	45.6	44.3
14-16	46.1	46.0	46.9	47.5	45.4	45.6	46.2
0-24	46.7	46.1	46.7	47.0	45.8	46.7	46.0

85th %ile (ALL)	46.4
Weekday Inter-Peak	45.4

Barwell ATC 1, Leicester Road (Northern Site)

Produced by Road Data Services Ltd.

Channel 1 - Southbound				Speed Summary			Week 1
Speed (MPH)	20/04/2023 Thursday	21/04/2023 Friday	22/04/2023 Saturday	23/04/2023 Sunday	24/04/2023 Monday	25/04/2023 Tuesday	26/04/2023 Wednesday
0-35	623	650	486	306	628	599	698
35-45	4363	4469	3722	2798	4539	4376	4435
45-55	902	784	763	661	760	836	784
55+	68	68	74	54	44	74	56
TOTAL	5956	5971	5045	3819	5971	5885	5973



Barwell ATC 1, Leicester Road (Northern Site)

Produced by Road Data Services Ltd.

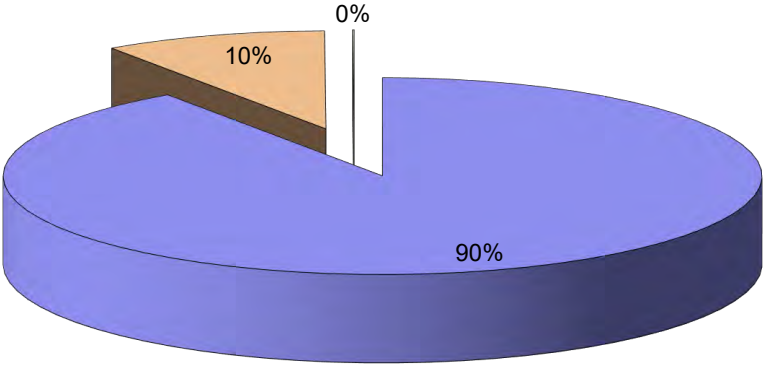
Channel 1 - Southbound

Vehicle Class

Week 1

Classes Day / Time	Car / LGV / Caravan - 1	OGV1 / Bus - 2,3,5,6,7,12	OGV2 - 4,8,9,10,11,13	TOTAL - 1-13
20/04/2023				
7-19	4391	530	7	4928
6-22	5064	594	7	5665
6-24	5140	602	7	5749
0-24	5320	629	7	5956
21/04/2023				
7-19	4472	457	4	4933
6-22	5128	515	4	5647
6-24	5245	519	4	5768
0-24	5426	541	4	5971
22/04/2023				
7-19	3923	314	0	4237
6-22	4426	346	0	4772
6-24	4566	350	0	4916
0-24	4683	362	0	5045
23/04/2023				
7-19	3024	192	3	3219
6-22	3397	218	3	3618
6-24	3457	220	3	3680
0-24	3586	230	3	3819
24/04/2023				
7-19	4371	584	2	4957
6-22	5028	643	2	5673
6-24	5096	647	2	5745
0-24	5296	673	2	5971
25/04/2023				
7-19	4389	518	6	4913
6-22	5013	579	6	5598
6-24	5092	584	6	5682
0-24	5276	603	6	5885
26/04/2023				
7-19	4407	539	4	4950
6-22	5058	611	4	5673
6-24	5136	613	4	5753
0-24	5331	638	4	5973
Average				
7-19	4140	448	4	4591
6-22	4731	501	4	5235
6-24	4819	505	4	5328
0-24	4988	525	4	5517

Total Vehicle Class Distribution



Barwell ATC 1, Leicester Road (Northern Site)

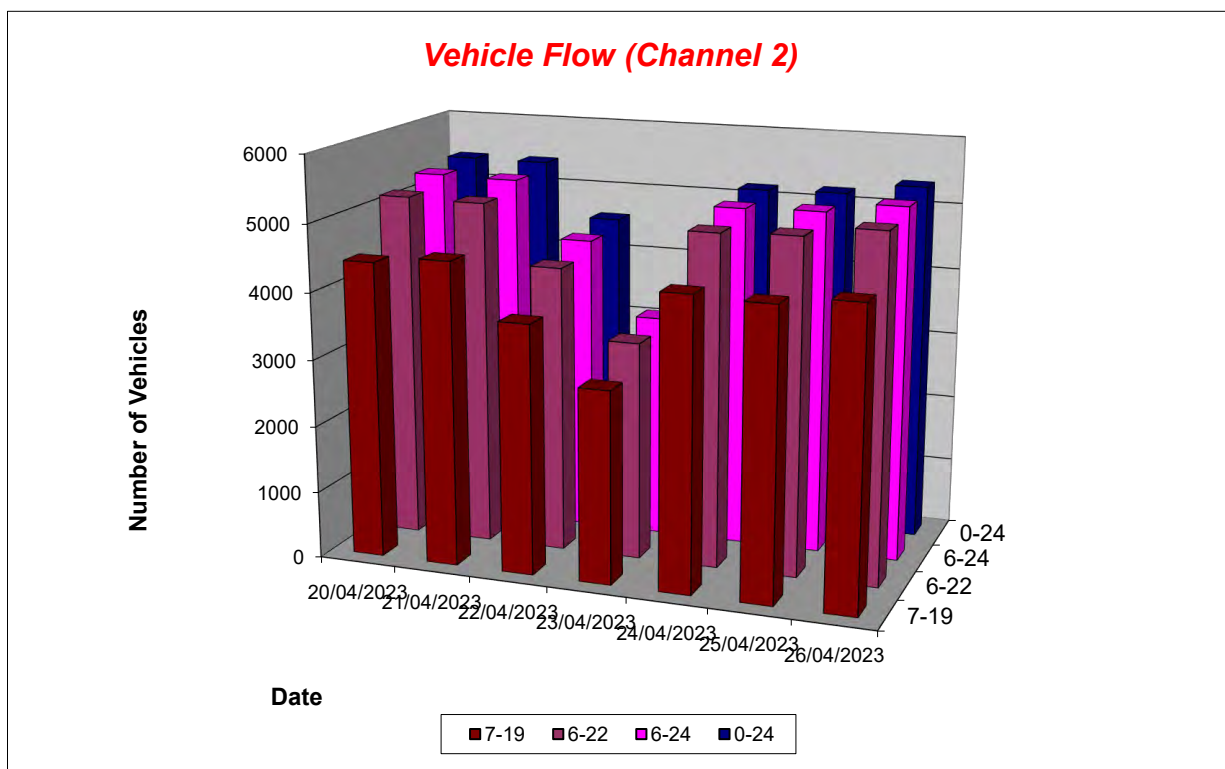
Produced by Road Data Services Ltd.

Channel 2 - Northbound

Vehicle Flow

Week 1

Hr Ending	20/04/2023 Thursday	21/04/2023 Friday	22/04/2023 Saturday	23/04/2023 Sunday	24/04/2023 Monday	25/04/2023 Tuesday	26/04/2023 Wednesday	Weekday Average	Average
1	20	22	37	46	17	14	11	17	24
2	10	16	20	33	10	7	14	11	16
3	5	9	16	15	4	3	9	6	9
4	14	10	13	9	4	8	11	9	10
5	5	12	10	8	9	11	11	10	9
6	23	19	15	8	27	23	25	23	20
7	73	41	33	24	67	84	74	68	57
8	194	169	72	37	188	179	194	185	148
9	340	367	145	60	347	348	351	351	280
10	311	299	235	105	266	260	264	280	249
11	279	278	362	247	269	255	265	269	279
12	303	305	386	316	313	250	294	293	310
13	345	331	398	353	316	315	297	321	336
14	305	354	373	359	294	306	315	315	329
15	381	445	379	329	421	428	403	416	398
16	493	532	379	327	489	534	511	512	466
17	522	550	350	308	514	523	519	526	469
18	548	504	323	213	528	524	610	543	464
19	408	400	321	219	395	377	395	395	359
20	280	254	245	163	250	271	300	271	252
21	236	186	154	130	174	195	223	203	185
22	156	139	123	71	128	146	138	141	129
23	103	92	107	64	93	93	91	94	92
24	41	56	68	26	46	38	32	43	44
7-19	4429	4534	3723	2873	4340	4299	4418	4404	4088
6-22	5174	5154	4278	3261	4959	4995	5153	5087	4711
6-24	5318	5302	4453	3351	5098	5126	5276	5224	4846
0-24	5395	5390	4564	3470	5169	5192	5357	5301	4934



Barwell ATC 1, Leicester Road (Northern Site)

Produced by Road Data Services Ltd.

Channel 2 - Northbound

Average Speed

Week 1

Hr Ending	20/04/2023 Thursday	21/04/2023 Friday	22/04/2023 Saturday	23/04/2023 Sunday	24/04/2023 Monday	25/04/2023 Tuesday	26/04/2023 Wednesday
1	43.0	41.3	39.4	35.6	41.2	37.7	39.0
2	41.0	39.5	39.4	37.4	45.9	37.5	35.6
3	35.9	39.3	39.8	37.3	45.4	49.3	44.7
4	42.3	35.8	38.0	35.6	39.4	39.1	39.8
5	36.6	43.2	36.5	37.4	36.6	37.7	39.7
6	38.4	39.3	41.2	32.0	39.4	40.3	37.3
7	40.5	38.2	40.0	40.5	39.8	39.9	38.5
8	40.0	37.9	41.1	40.6	38.3	39.6	38.0
9	36.4	35.6	37.9	39.2	38.1	36.0	37.7
10	37.0	36.1	35.4	39.4	37.6	38.4	37.4
11	38.3	36.5	37.8	38.3	36.8	38.0	37.0
12	38.6	36.8	37.6	37.9	36.7	37.7	36.7
13	38.1	37.4	37.4	38.4	37.3	36.6	38.1
14	39.1	37.2	39.3	38.5	38.3	38.8	38.6
15	39.3	36.7	39.0	37.8	36.5	37.6	37.5
16	37.5	36.5	39.2	38.7	37.0	37.6	34.8
17	37.6	37.5	38.8	36.8	37.0	38.0	37.7
18	38.4	38.2	39.3	39.2	37.1	37.8	37.1
19	38.5	38.7	39.1	39.6	37.6	39.1	38.8
20	39.3	38.5	39.0	40.0	39.0	39.2	38.5
21	38.0	38.3	39.2	38.0	38.1	38.5	39.5
22	37.2	38.2	37.5	37.8	38.8	37.4	37.3
23	37.8	38.3	35.2	40.5	38.0	38.3	38.6
24	40.2	39.6	35.8	37.5	37.4	40.1	37.8
10-12	38.5	36.7	37.7	38.1	36.7	37.9	36.8
14-16	38.3	36.6	39.1	38.2	36.8	37.6	36.0
0-24	38.3	37.3	38.4	38.4	37.5	38.0	37.6

Average (ALL)	37.9
Weekday Inter-Peak	37.1

Channel 2 - Northbound

85th Percentile

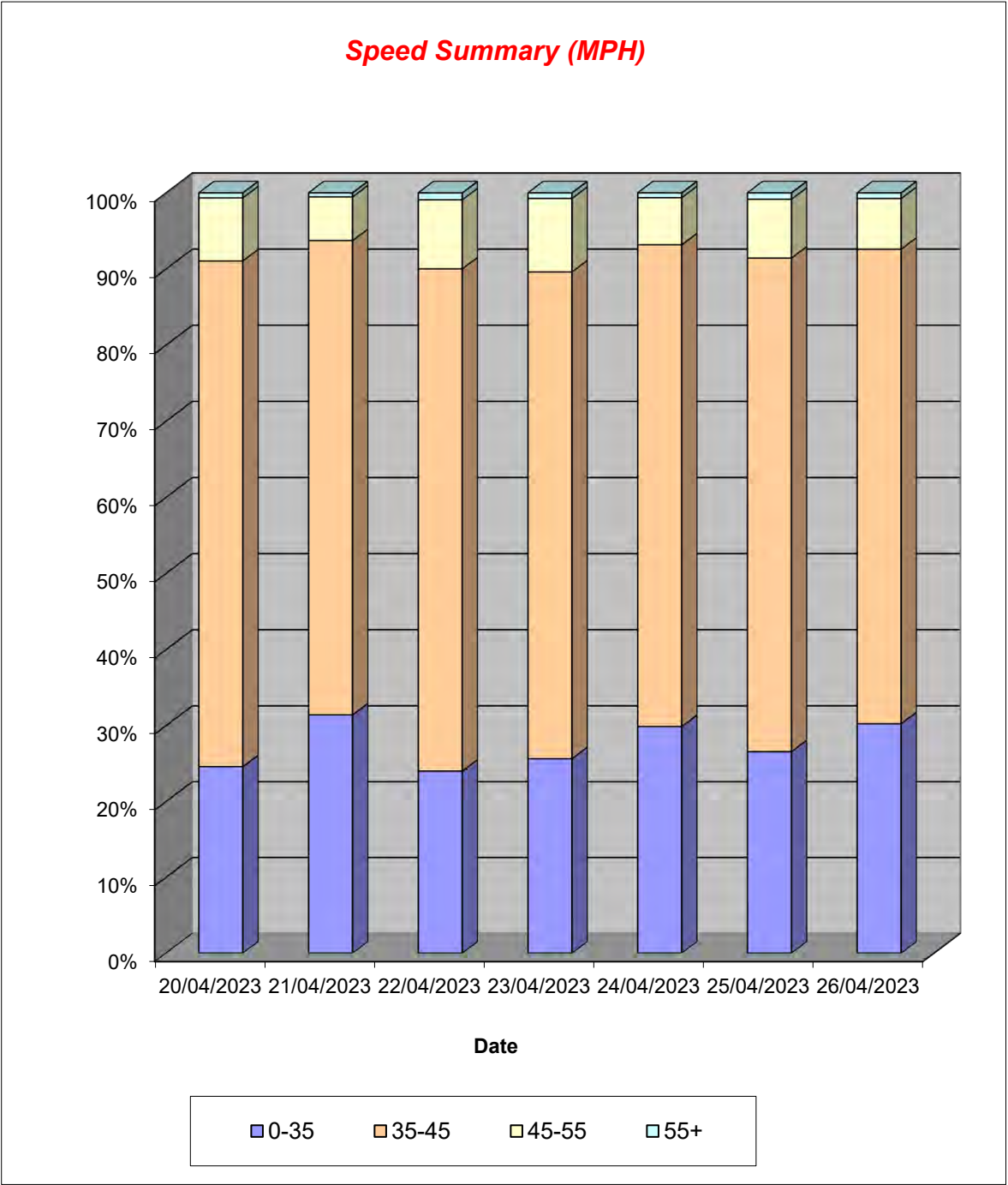
Hr Ending	20/04/2023 Thursday	21/04/2023 Friday	22/04/2023 Saturday	23/04/2023 Sunday	24/04/2023 Monday	25/04/2023 Tuesday	26/04/2023 Wednesday
1	52.1	47.6	48.5	41.7	50.0	41.8	45.5
2	47.6	52.0	44.2	43.2	55.2	44.0	40.0
3	41.9	48.8	50.3	42.4	56.2	53.3	54.8
4	49.3	42.1	44.0	42.4	43.3	43.0	45.4
5	52.0	52.3	41.7	44.5	49.0	48.2	46.7
6	47.4	47.2	49.6	40.8	46.6	49.2	45.6
7	47.5	45.7	51.6	47.0	45.9	47.3	44.3
8	45.9	43.5	49.1	45.4	43.4	45.3	43.1
9	43.8	41.0	44.6	46.1	43.7	44.3	43.7
10	44.6	42.0	43.2	46.3	43.8	44.9	43.2
11	44.9	42.0	43.4	43.4	41.5	43.7	43.7
12	43.7	41.8	44.0	43.7	42.7	43.4	42.2
13	44.0	43.0	42.9	43.5	43.2	44.1	43.1
14	44.0	42.8	45.0	44.3	43.2	44.2	44.0
15	45.6	41.9	45.0	43.9	42.0	42.8	43.0
16	43.0	41.9	44.5	45.3	42.6	42.7	42.8
17	43.2	43.1	44.7	42.7	42.2	43.6	43.2
18	44.0	43.6	45.4	46.4	42.2	43.5	42.6
19	43.8	43.9	44.7	45.1	43.2	45.2	44.9
20	45.1	44.2	44.9	46.0	44.8	45.7	44.8
21	43.9	45.2	45.4	44.0	44.3	44.9	45.9
22	43.5	44.8	42.6	43.1	44.7	43.2	42.5
23	43.9	44.5	41.6	49.3	43.7	44.8	46.6
24	47.5	47.1	41.4	42.6	46.5	49.9	43.0
10-12	44.4	42.0	43.7	43.6	42.1	43.6	42.9
14-16	44.2	41.9	44.7	44.6	42.3	42.8	43.2
0-24	44.4	43.1	44.6	44.5	43.2	44.2	43.8

85th %ile (ALL)	44.0
Weekday Inter-Peak	42.9

Barwell ATC 1, Leicester Road (Northern Site)

Produced by Road Data Services Ltd.

Channel 2 - Northbound				Speed Summary			Week 1
Speed (MPH)	20/04/2023 Thursday	21/04/2023 Friday	22/04/2023 Saturday	23/04/2023 Sunday	24/04/2023 Monday	25/04/2023 Tuesday	26/04/2023 Wednesday
0-35	1327	1694	1096	890	1545	1380	1621
35-45	3586	3359	3013	2220	3272	3368	3340
45-55	447	309	414	335	320	401	357
55+	35	28	41	25	32	43	39
TOTAL	5395	5390	4564	3470	5169	5192	5357

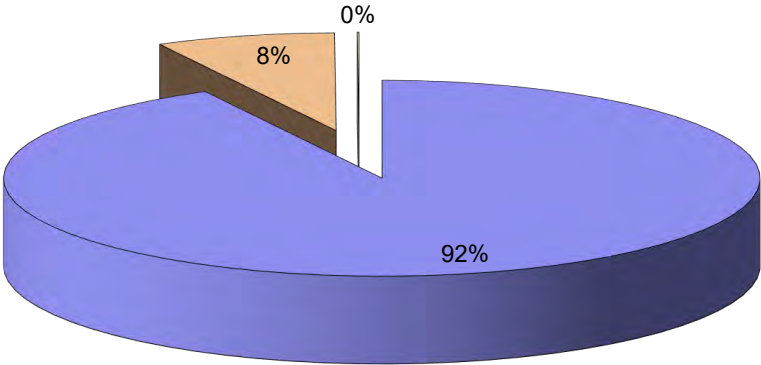


Barwell ATC 1, Leicester Road (Northern Site)

Produced by Road Data Services Ltd.

Channel 2 - Northbound		Vehicle Class		Week 1
Classes	Car / LGV / Caravan - 1	OGV1 / Bus - 2,3,5,6,7,12	OGV2 - 4,8,9,10,11,13	TOTAL - 1-13
Day / Time				
20/04/2023				
7-19	4015	412	2	4429
6-22	4717	454	3	5174
6-24	4852	462	4	5318
0-24	4925	466	4	5395
21/04/2023				
7-19	4152	379	3	4534
6-22	4734	416	4	5154
6-24	4879	419	4	5302
0-24	4963	423	4	5390
22/04/2023				
7-19	3504	216	3	3723
6-22	4028	247	3	4278
6-24	4198	252	3	4453
0-24	4301	260	3	4564
23/04/2023				
7-19	2719	151	3	2873
6-22	3081	177	3	3261
6-24	3171	177	3	3351
0-24	3283	184	3	3470
24/04/2023				
7-19	3952	386	2	4340
6-22	4525	432	2	4959
6-24	4658	438	2	5098
0-24	4726	441	2	5169
25/04/2023				
7-19	3923	371	5	4299
6-22	4578	411	6	4995
6-24	4700	420	6	5126
0-24	4763	422	7	5192
26/04/2023				
7-19	4009	406	3	4418
6-22	4709	441	3	5153
6-24	4825	448	3	5276
0-24	4901	453	3	5357
Average				
7-19	3753	332	3	4088
6-22	4339	368	3	4711
6-24	4469	374	4	4846
0-24	4552	378	4	4934

Total Vehicle Class Distribution



Barwell ATC 2, Leicester Road (Southern Site)

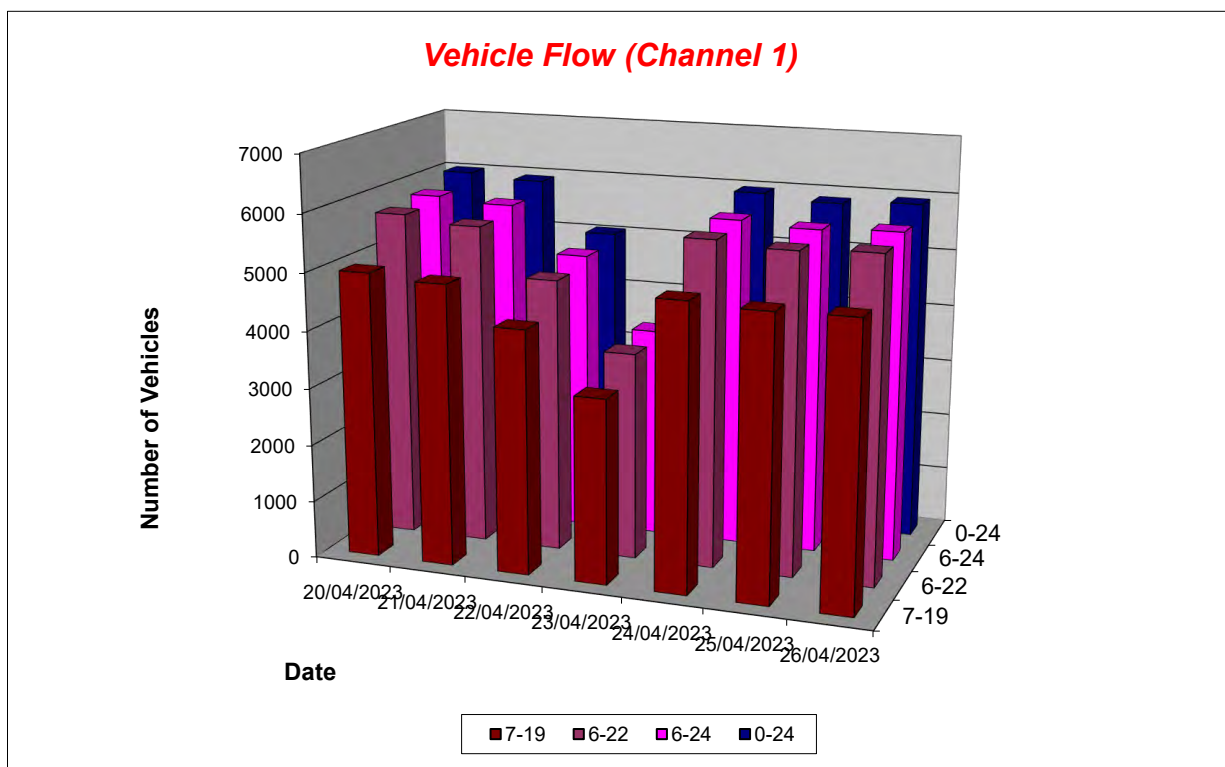
Produced by Road Data Services Ltd.

Channel 1 - Southbound

Vehicle Flow

Week 1

Hr Ending	20/04/2023 Thursday	21/04/2023 Friday	22/04/2023 Saturday	23/04/2023 Sunday	24/04/2023 Monday	25/04/2023 Tuesday	26/04/2023 Wednesday	Weekday Average	Average
1	16	13	20	51	16	12	13	14	20
2	7	10	20	25	8	4	14	9	13
3	10	9	12	13	11	6	4	8	9
4	11	17	21	12	17	18	22	17	17
5	32	35	15	17	42	41	40	38	32
6	128	119	42	20	132	121	126	125	98
7	257	219	91	57	263	267	272	256	204
8	565	504	192	85	570	606	583	566	444
9	615	609	332	162	665	651	651	638	526
10	394	431	479	263	425	420	407	415	403
11	396	353	423	401	359	332	361	360	375
12	302	367	466	356	345	313	334	332	355
13	349	316	453	394	314	311	305	319	349
14	364	379	398	361	327	335	291	339	351
15	361	386	335	311	373	356	341	363	352
16	456	476	323	279	424	437	421	443	402
17	414	392	292	210	402	439	450	419	371
18	426	385	282	216	428	388	446	415	367
19	341	299	272	172	321	303	322	317	290
20	233	211	202	150	234	222	218	224	210
21	152	171	137	112	140	139	147	150	143
22	96	104	95	85	76	62	89	85	87
23	60	82	85	42	51	54	56	61	61
24	24	43	59	20	20	30	25	28	32
7-19	4983	4897	4247	3210	4953	4891	4912	4927	4585
6-22	5721	5602	4772	3614	5666	5581	5638	5642	5228
6-24	5805	5727	4916	3676	5737	5665	5719	5731	5321
0-24	6009	5930	5046	3814	5963	5867	5938	5941	5510



Barwell ATC 2, Leicester Road (Southern Site)

Produced by Road Data Services Ltd.

Channel 1 - Southbound

Average Speed

Week 1

Hr Ending	20/04/2023 Thursday	21/04/2023 Friday	22/04/2023 Saturday	23/04/2023 Sunday	24/04/2023 Monday	25/04/2023 Tuesday	26/04/2023 Wednesday
1	42.0	39.5	40.1	40.2	40.4	43.4	42.9
2	42.9	45.9	43.2	38.9	40.7	42.2	42.3
3	43.3	46.2	39.8	41.1	41.9	34.0	32.9
4	41.8	42.3	42.8	39.4	42.8	43.8	40.0
5	43.2	43.2	42.3	38.3	42.2	41.1	41.6
6	43.9	42.1	41.6	38.7	41.7	42.9	42.7
7	42.1	40.6	42.9	41.9	42.1	42.1	42.0
8	40.8	39.7	42.0	40.5	40.5	41.0	40.2
9	38.2	38.1	39.6	41.5	38.4	38.5	39.1
10	39.1	38.4	37.7	40.9	39.2	40.0	38.8
11	38.1	37.5	39.3	39.7	38.8	39.8	39.1
12	40.6	39.4	40.4	40.6	38.6	40.2	39.4
13	40.5	40.3	40.7	41.0	38.9	39.9	39.8
14	40.5	40.1	41.5	41.2	39.4	40.4	40.5
15	41.2	40.3	41.0	41.6	40.4	41.0	40.2
16	41.1	41.7	41.7	41.6	40.3	40.9	38.3
17	41.8	41.5	42.1	42.2	40.6	41.3	40.4
18	41.9	41.4	40.8	41.3	40.9	41.5	40.4
19	42.1	41.9	42.4	41.9	41.2	41.8	42.2
20	42.0	42.0	41.5	42.6	41.7	42.0	42.0
21	41.1	40.8	42.2	40.2	40.6	42.6	42.4
22	40.9	41.6	40.8	40.1	41.8	41.4	40.7
23	41.2	42.0	39.3	42.0	41.5	40.3	41.1
24	41.3	44.4	39.5	41.6	45.7	42.1	43.9
10-12	39.2	38.5	39.9	40.1	38.7	40.0	39.2
14-16	41.2	41.1	41.3	41.6	40.3	41.0	39.1
0-24	40.7	40.2	40.7	41.1	40.1	40.7	40.2

Average (ALL)	40.5
Weekday Inter-Peak	39.9

Channel 1 - Southbound

85th Percentile

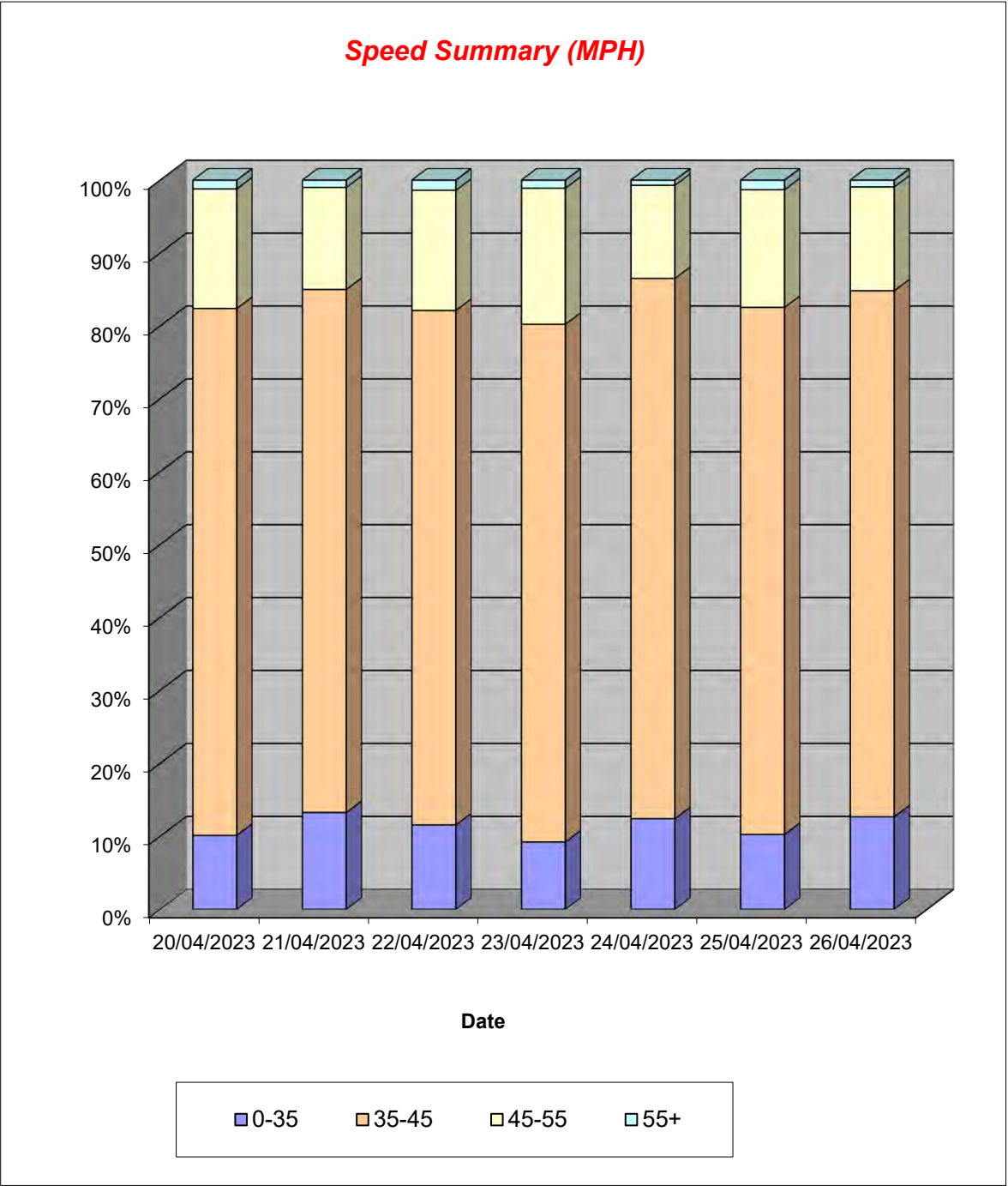
Hr Ending	20/04/2023 Thursday	21/04/2023 Friday	22/04/2023 Saturday	23/04/2023 Sunday	24/04/2023 Monday	25/04/2023 Tuesday	26/04/2023 Wednesday
1	51.6	44.0	46.2	46.5	45.3	49.9	50.2
2	50.2	57.2	51.0	45.8	45.5	54.6	51.2
3	54.2	59.0	45.5	46.4	52.8	44.7	42.9
4	46.2	46.7	51.1	44.8	48.1	49.7	45.0
5	48.0	48.6	49.8	44.3	48.6	48.0	47.0
6	50.5	48.1	48.1	43.3	47.8	49.4	48.0
7	47.9	46.3	48.7	48.1	48.2	47.9	48.9
8	45.6	44.5	48.9	46.2	45.3	46.0	46.1
9	46.1	43.1	46.8	48.3	44.4	46.3	44.1
10	44.6	43.5	45.1	46.2	44.3	45.5	44.0
11	45.9	42.7	45.4	45.4	43.7	45.8	44.1
12	46.2	44.7	45.6	45.9	43.6	45.7	44.8
13	46.0	45.6	46.1	45.7	44.4	47.6	45.2
14	46.1	45.3	47.0	46.4	45.3	46.0	45.4
15	46.1	45.7	46.8	47.1	45.8	47.1	46.1
16	46.5	47.3	46.9	47.3	45.5	45.8	46.3
17	47.2	47.1	47.8	47.9	45.5	47.1	45.7
18	47.3	46.6	46.5	47.3	46.5	47.0	46.1
19	47.8	47.8	48.5	48.2	47.0	47.7	48.0
20	47.9	47.8	47.3	48.8	48.5	48.3	48.0
21	47.2	47.8	50.0	46.6	47.2	48.6	48.4
22	47.4	47.5	47.6	46.2	48.7	47.5	46.7
23	47.3	49.6	46.3	50.1	47.4	47.8	48.1
24	50.6	53.9	45.9	46.8	53.7	50.0	49.4
10-12	46.3	43.9	45.6	45.6	43.6	45.8	44.4
14-16	46.4	46.6	46.8	47.2	45.6	46.4	46.3
0-24	46.9	45.9	47.0	46.8	45.8	46.9	46.1

85th %ile (ALL)	46.5
Weekday Inter-Peak	45.7

Barwell ATC 2, Leicester Road (Southern Site)

Produced by Road Data Services Ltd.

Channel 1 - Southbound				Speed Summary			Week 1
Speed (MPH)	20/04/2023 Thursday	21/04/2023 Friday	22/04/2023 Saturday	23/04/2023 Sunday	24/04/2023 Monday	25/04/2023 Tuesday	26/04/2023 Wednesday
0-35	609	787	584	352	741	602	753
35-45	4342	4254	3560	2708	4418	4241	4284
45-55	986	830	832	712	762	947	846
55+	72	59	70	42	42	77	55
TOTAL	6009	5930	5046	3814	5963	5867	5938

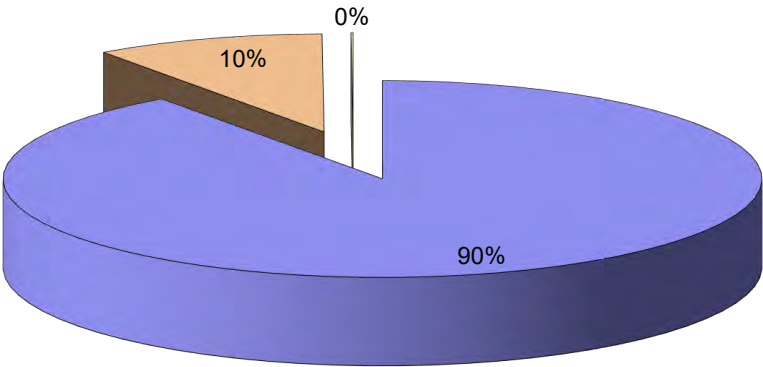


Barwell ATC 2, Leicester Road (Southern Site)

Produced by Road Data Services Ltd.

Channel 1 - Southbound		Vehicle Class		Week 1
Classes	Car / LGV / Caravan - 1	OGV1 / Bus - 2,3,5,6,7,12	OGV2 - 4,8,9,10,11,13	TOTAL - 1-13
Day / Time				
20/04/2023				
7-19	4440	536	7	4983
6-22	5111	603	7	5721
6-24	5187	611	7	5805
0-24	5364	638	7	6009
21/04/2023				
7-19	4392	501	4	4897
6-22	5032	565	5	5602
6-24	5153	569	5	5727
0-24	5334	590	6	5930
22/04/2023				
7-19	3916	330	1	4247
6-22	4408	363	1	4772
6-24	4548	367	1	4916
0-24	4666	379	1	5046
23/04/2023				
7-19	3014	192	4	3210
6-22	3392	218	4	3614
6-24	3452	220	4	3676
0-24	3580	230	4	3814
24/04/2023				
7-19	4364	583	6	4953
6-22	5012	648	6	5666
6-24	5079	652	6	5737
0-24	5277	680	6	5963
25/04/2023				
7-19	4366	521	4	4891
6-22	4992	584	5	5581
6-24	5072	588	5	5665
0-24	5254	608	5	5867
26/04/2023				
7-19	4347	559	6	4912
6-22	5002	630	6	5638
6-24	5080	633	6	5719
0-24	5275	657	6	5938
Average				
7-19	4120	460	5	4585
6-22	4707	516	5	5228
6-24	4796	520	5	5321
0-24	4964	540	5	5510

Total Vehicle Class Distribution



Barwell ATC 2, Leicester Road (Southern Site)

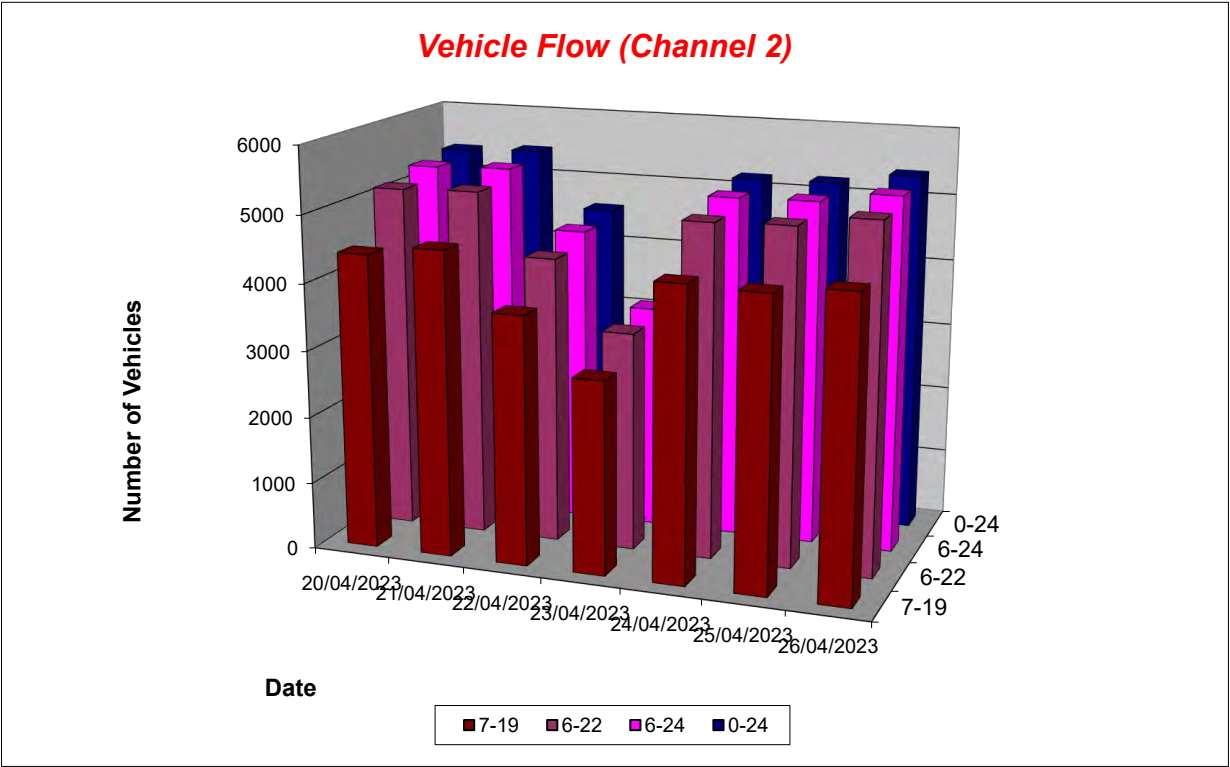
Produced by Road Data Services Ltd.

Channel 2 - Northbound

Vehicle Flow

Week 1

Hr Ending	20/04/2023 Thursday	21/04/2023 Friday	22/04/2023 Saturday	23/04/2023 Sunday	24/04/2023 Monday	25/04/2023 Tuesday	26/04/2023 Wednesday	Weekday Average	Average
1	20	22	37	46	17	14	11	17	24
2	10	15	20	34	10	7	14	11	16
3	6	9	16	15	4	3	9	6	9
4	14	10	13	9	4	8	11	9	10
5	5	12	10	8	9	11	11	10	9
6	25	19	16	8	28	24	25	24	21
7	76	43	33	25	69	82	75	69	58
8	196	170	76	37	197	178	192	187	149
9	347	371	141	64	352	363	349	356	284
10	305	296	231	106	263	269	272	281	249
11	279	284	352	251	274	248	271	271	280
12	310	317	391	325	311	258	298	299	316
13	346	344	410	345	324	316	300	326	341
14	295	367	351	360	297	313	324	319	330
15	382	445	388	330	415	424	407	415	399
16	475	527	375	322	475	532	518	505	461
17	528	531	346	315	514	523	509	521	467
18	537	515	327	209	544	515	609	544	465
19	415	397	329	220	392	384	394	396	362
20	274	259	249	161	254	269	295	270	252
21	234	183	156	126	171	192	226	201	184
22	155	139	125	72	128	147	138	141	129
23	103	89	107	64	94	92	91	94	91
24	42	57	68	26	46	38	32	43	44
7-19	4415	4564	3717	2884	4358	4323	4443	4421	4101
6-22	5154	5188	4280	3268	4980	5013	5177	5102	4723
6-24	5299	5334	4455	3358	5120	5143	5300	5239	4858
0-24	5379	5421	4567	3478	5192	5210	5381	5317	4947



Barwell ATC 2, Leicester Road (Southern Site)

Produced by Road Data Services Ltd.

Channel 2 - Northbound

Average Speed

Week 1

Hr Ending	20/04/2023 Thursday	21/04/2023 Friday	22/04/2023 Saturday	23/04/2023 Sunday	24/04/2023 Monday	25/04/2023 Tuesday	26/04/2023 Wednesday
1	44.1	40.2	40.0	37.2	40.8	37.8	40.1
2	42.1	37.9	41.3	37.2	44.6	40.1	37.8
3	41.1	39.8	41.5	38.3	46.1	47.6	44.3
4	41.3	36.0	38.7	36.6	38.4	38.8	39.1
5	37.7	45.2	39.1	37.5	38.1	40.7	38.6
6	40.5	39.7	40.4	37.7	37.8	40.7	38.7
7	40.9	40.3	41.2	41.1	40.5	40.5	40.1
8	40.4	40.0	38.6	42.8	39.3	40.6	38.4
9	36.6	36.8	37.4	40.3	38.9	37.1	38.6
10	38.9	38.3	37.3	39.9	38.9	39.8	39.1
11	39.3	38.8	37.8	39.7	38.0	38.6	38.9
12	39.1	39.1	39.2	39.0	38.0	39.0	38.3
13	39.0	39.1	39.6	39.8	38.8	38.1	39.3
14	39.7	39.2	40.7	39.9	39.3	40.4	40.4
15	40.8	38.2	40.5	39.5	38.5	38.9	39.2
16	39.0	38.6	40.6	39.8	39.1	39.3	37.2
17	39.8	39.9	40.8	39.4	39.1	40.8	39.8
18	40.3	40.3	40.7	40.7	39.4	39.9	39.6
19	40.3	40.1	40.9	41.2	39.3	40.3	40.8
20	40.6	40.3	40.7	41.2	40.4	40.5	40.1
21	39.7	39.9	41.1	39.9	39.5	40.4	41.3
22	38.3	39.3	39.1	39.1	40.2	39.6	38.9
23	38.7	39.2	37.4	41.8	39.2	39.3	39.5
24	41.5	39.9	37.6	39.2	39.3	41.2	37.5
10-12	39.2	38.9	38.5	39.3	38.0	38.8	38.6
14-16	39.8	38.4	40.5	39.7	38.8	39.1	38.1
0-24	39.5	39.2	39.8	39.9	39.1	39.6	39.3

Average (ALL)	39.4
Weekday Inter-Peak	38.8

Channel 2 - Northbound

85th Percentile

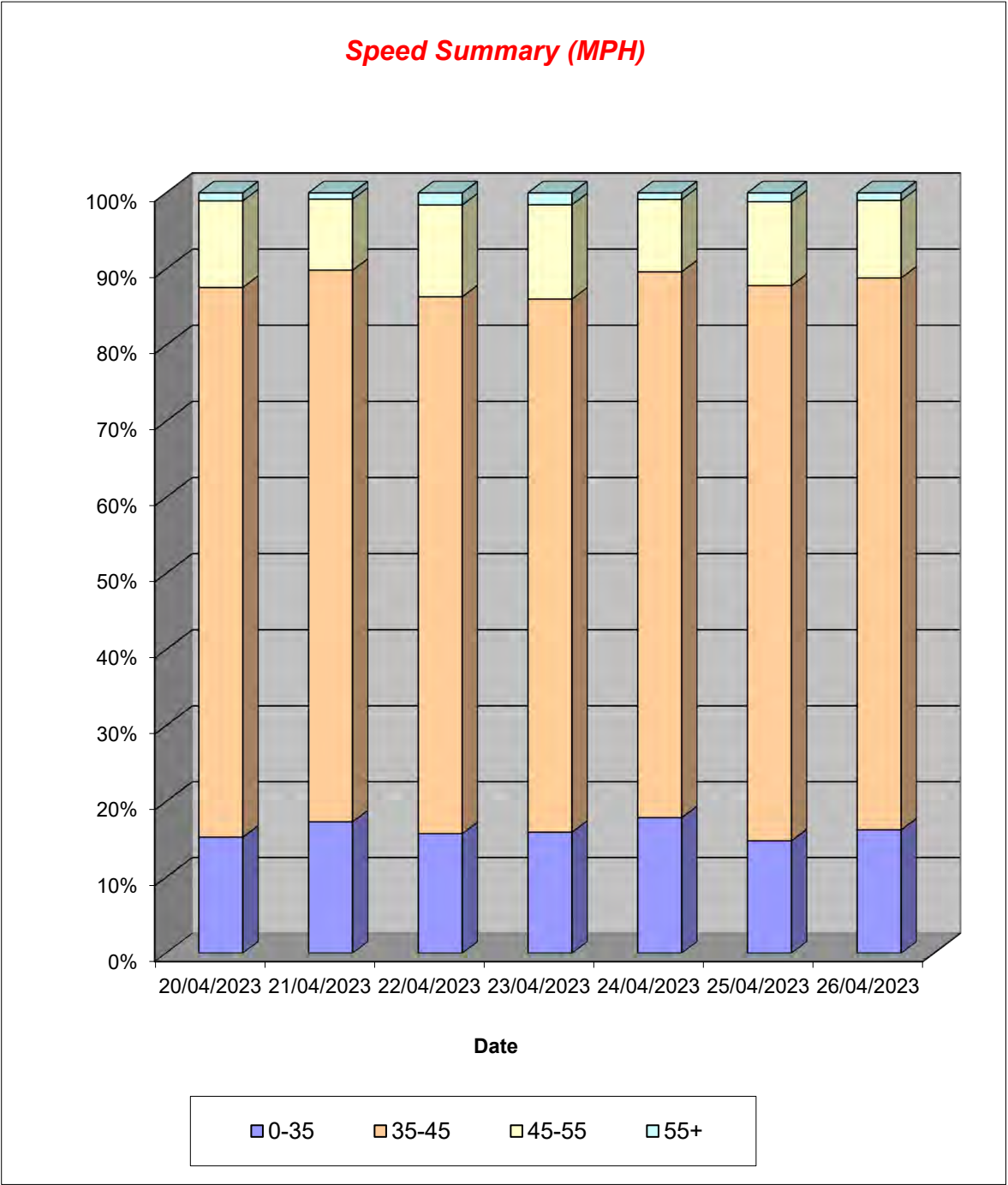
Hr Ending	20/04/2023 Thursday	21/04/2023 Friday	22/04/2023 Saturday	23/04/2023 Sunday	24/04/2023 Monday	25/04/2023 Tuesday	26/04/2023 Wednesday
1	51.8	46.5	48.7	43.4	50.0	43.9	47.2
2	49.1	46.1	45.2	43.2	54.3	48.8	44.0
3	50.8	46.5	50.1	43.5	54.6	50.0	54.5
4	47.4	41.0	44.3	43.8	42.9	42.8	44.8
5	47.8	55.7	44.6	43.8	49.4	49.6	44.9
6	51.0	50.2	50.4	45.5	45.9	48.6	47.3
7	47.7	47.2	50.8	48.5	45.2	47.4	45.1
8	45.9	45.4	47.6	49.4	44.2	46.2	43.9
9	45.5	42.3	44.9	46.7	44.1	45.4	44.3
10	44.5	44.4	45.1	46.5	44.8	45.8	44.2
11	45.3	44.0	43.9	45.5	42.7	44.4	44.7
12	43.9	43.7	45.2	44.0	44.0	44.6	43.3
13	44.9	44.7	44.7	45.3	44.6	45.6	44.3
14	45.2	44.5	46.5	45.9	44.4	45.7	46.1
15	46.9	43.2	46.2	45.5	43.5	44.0	44.3
16	44.2	43.5	46.1	46.4	44.3	44.2	45.9
17	45.3	45.8	46.8	45.6	44.2	46.3	45.1
18	45.8	45.9	47.0	47.4	44.8	45.5	45.3
19	45.9	45.3	46.5	47.4	44.8	46.3	47.2
20	47.1	45.3	46.6	47.3	46.3	46.7	45.9
21	46.0	46.5	49.0	46.0	45.3	46.1	48.2
22	43.6	46.7	45.1	45.8	46.7	45.1	44.7
23	44.6	45.2	44.9	51.6	47.1	45.4	47.1
24	49.2	47.1	44.2	45.4	47.0	51.7	42.6
10-12	44.6	43.8	44.6	44.7	43.4	44.5	44.0
14-16	45.5	43.3	46.1	46.0	43.9	44.1	45.5
0-24	45.6	44.9	46.2	46.1	44.7	45.7	45.4

85th %ile (ALL)	45.4
Weekday Inter-Peak	44.4

Barwell ATC 2, Leicester Road (Southern Site)

Produced by Road Data Services Ltd.

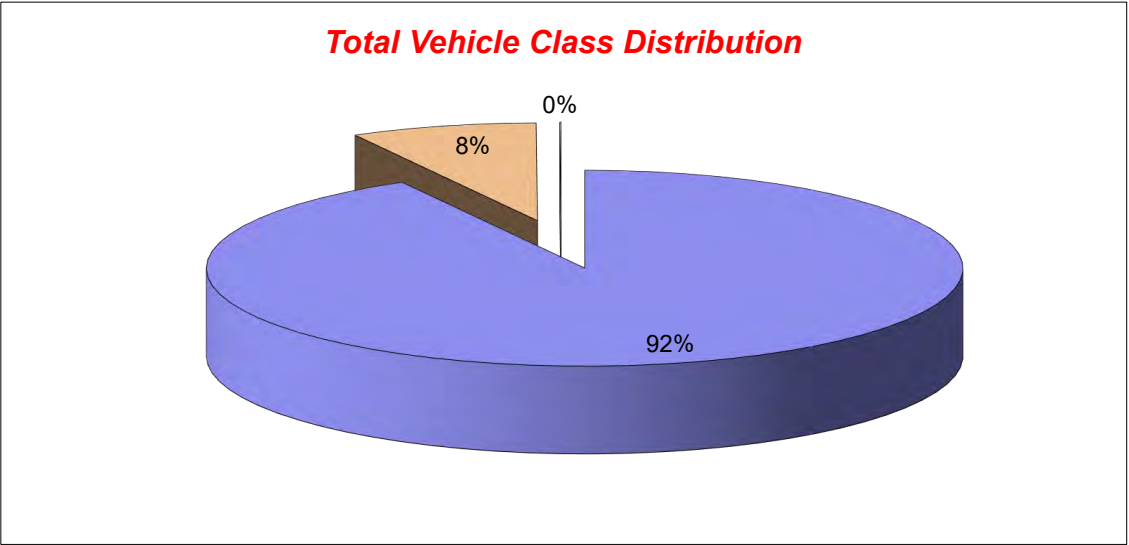
Channel 2 - Northbound				Speed Summary			Week 1
Speed (MPH)	20/04/2023 Thursday	21/04/2023 Friday	22/04/2023 Saturday	23/04/2023 Sunday	24/04/2023 Monday	25/04/2023 Tuesday	26/04/2023 Wednesday
0-35	823	939	720	555	928	772	875
35-45	3888	3932	3224	2438	3726	3804	3905
45-55	612	506	551	431	494	574	548
55+	56	44	72	54	44	60	53
TOTAL	5379	5421	4567	3478	5192	5210	5381



Barwell ATC 2, Leicester Road (Southern Site)

Produced by Road Data Services Ltd.

Channel 2 - Northbound		Vehicle Class		Week 1
Classes	Car / LGV / Caravan - 1	OGV1 / Bus - 2,3,5,6,7,12	OGV2 - 4,8,9,10,11,13	TOTAL - 1-13
Day / Time				
20/04/2023				
7-19	3978	435	2	4415
6-22	4675	476	3	5154
6-24	4812	484	3	5299
0-24	4888	488	3	5379
21/04/2023				
7-19	4139	422	3	4564
6-22	4726	459	3	5188
6-24	4869	462	3	5334
0-24	4951	467	3	5421
22/04/2023				
7-19	3509	206	2	3717
6-22	4040	238	2	4280
6-24	4212	241	2	4455
0-24	4315	250	2	4567
23/04/2023				
7-19	2731	151	2	2884
6-22	3091	175	2	3268
6-24	3181	175	2	3358
0-24	3294	182	2	3478
24/04/2023				
7-19	3958	397	3	4358
6-22	4538	439	3	4980
6-24	4672	445	3	5120
0-24	4740	449	3	5192
25/04/2023				
7-19	3939	380	4	4323
6-22	4586	422	5	5013
6-24	4708	430	5	5143
0-24	4772	432	6	5210
26/04/2023				
7-19	4000	442	1	4443
6-22	4698	478	1	5177
6-24	4813	486	1	5300
0-24	4889	491	1	5381
Average				
7-19	3751	348	2	4101
6-22	4336	384	3	4723
6-24	4467	389	3	4858
0-24	4550	394	3	4947





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