

Technical Note



Planning Application 2018/0718

Proposed Residential Development,
Pen-y-Bont, Pentre, Chirk

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Response to Highways Objections

Our reference: 661712-TN02-Rev00

This Technical Note has been prepared in response to the Highway Authority's objections in regard to planning application 2018/0718 for construction of a residential development of 60 dwellings on land at Pen-y-Bont landfill, Pentre, Chirk.

Each of the concerns within the memorandum from Wrexham County Borough Council (WCBC), dated 12 November 2018, has been addressed below and is supported by enclosed drawings.

Visibility to the north of the site access

The B5605 is subject to a 50mph speed limit, although the characteristics of the road, which include bends, vertical features alongside the carriageway and carriageway width, would typically reduce vehicle speeds. In order to determine the actual design speed along the section of road passing the site an ATC has been installed for a week, around 90 metres to the north of the site access. The speed survey results showed that the recorded 85th percentile speeds were 40.2mph in the northbound direction and 43.4mph in the southbound direction. Based on the standard formula for calculating stopping sight distances, this equates to desirable visibility splays of 2.4m x 116m from the site access.

There is a bend to the north of the site access which constrains the achievable visibility from the junction. The carriageway in this location is flanked by a sloping wall on the eastern side of the road. Although the existing wall may constrain visibility splay when taken to the kerbside, it should be noted that it is unlikely that vehicles travelling southbound will be driving close to the wall. As a result of this, vehicles will be driving with a greater margin to the edge of carriageway than in a northbound direction where a kerb and footway exist. Therefore, it would be reasonable to measure visibility to a point around 1.0m offset from the edge of carriageway.

Based on the above, the slope formation of the wall plus the removal of any excess vegetation will improve visibility for vehicles exiting the site. Therefore, visibility splay of 2.4m x 116m to the north of the site access and taken 1.0m from the edge of the carriageway is considered to be appropriate and achievable. The enclosed drawing (ref: 661712-10-01-A) illustrates the achievable visibility splays.

Trip Generation

The proposed net change from the use of the site for landfill to residential has been assessed in the supporting Transport Statement. Upon request from the highway authority, further evidence has also been submitted (ref 661712-TN01) to support the assumption that the landfill generated around 50 HGV arrivals and 50 departures per day. The highway authority has not disputed this evidence.



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The Transport Statement also provided trip rates to predict the potential level of traffic that could be generated by the residential proposals. The resulting daily two-way trip of 4.8 would generate around 289 trips per day. It should be noted that the TRICS database typically provides trip rate information over a 12 hour period (07:00-19:00), which is reflective of the same time period that traffic movements would be associated with the landfill site as it would not have been a 24 hour operation. It would be inappropriate to compare a 12 hour period with a 24 hour operation as the intensity of traffic is not on a like-for-like basis.

Data provided from the highway authority indicates that a site located in Wrexham, comprising 34 large detached dwellings in a cul-de-sac, have been recorded as generating a 24 hour trip rate of 7.6 two way trips per dwelling. However, based on a 12 hour period, the same location generated a trip rate of 6.2 two-way trips per dwelling. It should be noted that the TRICS data is often measured from sites with a mix of housing sizes, which is commensurate with new development sites, whereas the site selected for the survey by the highway authority only considers large detached houses. It is therefore likely that this would result in an over-estimate of traffic generation compared to the likely proposals that would be developed on this site.

Notwithstanding the above, the access arrangements are proposed to be improved as part of the development, providing a layout that meets geometric requirements for junction design and a significant improvement for pedestrians. Therefore, while it is acknowledged that there will be an increase in the volume of traffic using the site access, the volumes still represent a relatively low flow and will virtually eliminate slower HGV movements turning in and out, while the access itself will be improved to mitigate the increase in traffic. Based on the above it is considered that the anticipated traffic generation of the proposed residential development will not cause any significant impact on the local highway network.

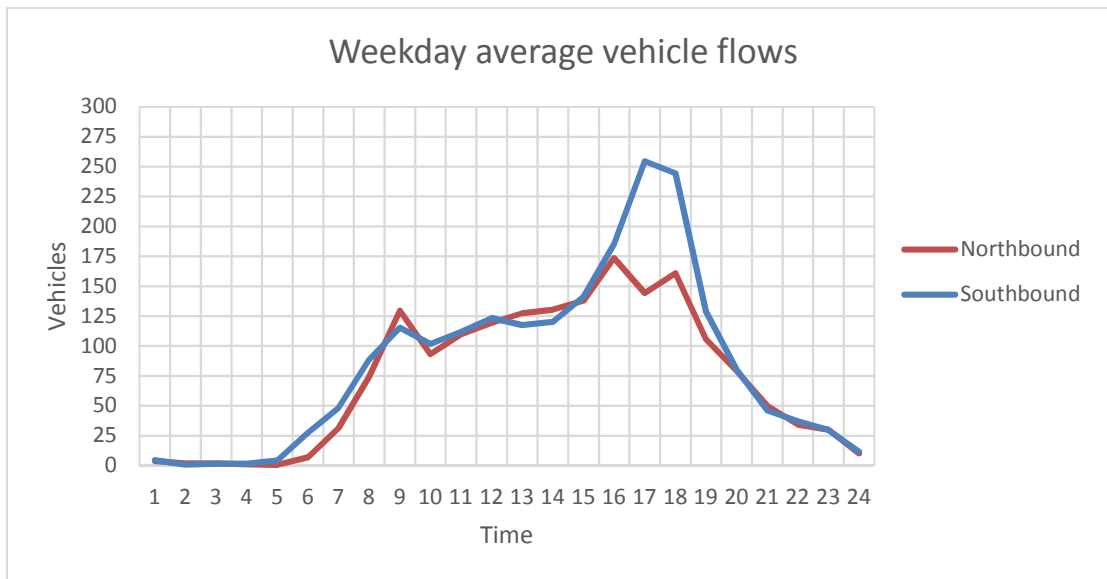
Pedestrian Environment on B5605

The highway authority has suggested that the B5605 is a busy road which does not provide a comfortable environment for pedestrians walking alongside. However, the ATC mentioned above recorded traffic volumes along the B5605 over a week period. The survey data results have been averaged for a 5 day (weekday) period, which shows a maximum of 255 vehicles travelling in the southbound direction and 174 vehicles travelling in the northbound direction. The chart below illustrates this, as well as the general profile across the day.

These peaks occur during afternoon peak times when some traffic travelling from the north along the A483 is likely to divert via the A539 and then B5605 to reach the A5, avoiding congestion along the single carriageway section of the A483. Based on this data, it is clear that the B5605 is relatively lightly trafficked with vehicles passing at a rate of around only two to three per minute in a northbound direction. While the proportion of HGVs travelling along the B5605 is around 13% on a weekday, 97% of these are the smallest of HGVs (2 axle rigid). The number of larger vehicles passing along this road is therefore negligible, which would otherwise affect the amenity of pedestrians on the footway.

The footway width of around 1.5 m along the B5605 is commensurate with footways in a semi-rural area and indeed in many parts of Cefn Mawr. It is sufficiently wide to accommodate the low pedestrian flows that would occur along this route.

Overall, the pedestrian environment along the B5605 is characterised by relatively low traffic flows, including low volumes of HGVs, and a footway width typical of that encountered in a semi-rural location. A new crossing point will be created at the site access with footway provision that doesn't currently exist, thereby improving the facilities available.



Sustainability

The proposed site access layout has been revised to include new bus infrastructures to improve connectivity and pedestrian safety at the site access.

A new bus stop will be located on the north side of the site access to serve southbound bus services from Wrexham/Cefn Mawr towards Oswestry. Pedestrians will benefit from a new 2.0m kerbed footway combined with a raised kerb at the bus stop location to assist pedestrians boarding/disembarking safely and easily. It is also proposed that a new 3.0m kerbed shared use cycle/footway, along the southern side of the access, will be provided with a tactile paving crossing point to allow pedestrians accessing the existing bus stop located opposite of the site access. The location of the bus stop has been carefully positioned to avoid conflict with the site access yet being accommodated within the available land. The use of this bus stop will be low, based on the number of potential residents, and as a result buses are unlikely to stop every time and any stop will be of short duration. Given the relatively low flow along the B5605, the delay to drivers will be minimal.

A bus route plan illustrating the existing bus routes passing the site is enclosed, which shows that there is strong potential for residents to rely on bus to access nearby settlements such as Chirk, Cefn Mawr, Wrexham and Oswestry to access a wide range of local amenities. The three services provide a combined frequency of up to 3 buses per hour, which is an excellent level of service for a semi-rural location and each serve the key destinations, ensuring that such a frequency is available for the majority of trip purposes.

Although the site is within a semi-rural location, it has the potential for other modes of transport journeys to be used as an alternative to the private car. The CIHT publication "Providing for Journeys on Foot", as quoted by the highway authority, contains guidance on desirable, acceptable and maximum walking distances to facilities. Strict compliance with these guidelines would restrict many of the developments being consented across the UK and are difficult to compare with the acceptable walking distances established through the National Travel Survey (NTS). The NTS mean walking distance (excluding London) to most facilities is around 1000-1250 m with 85th percentile distances of 1600-2100 m.

Walking and cycling isochrones are enclosed with this report, illustrating that the development site is located within a distance of 25 minute walking, equivalent to 2000m, from the nearby village of Cefn-mawr which allows residents to access local facilities and amenities such as schools, pubs/cafes, post office or convenience stores without the need of a private car. Similarly for cycling, there are a number of destinations that are within easy cycling distance, offering cycling as an alternative to driving.

Overall, while the site is located outside of the urban area, there are reasonable connections on foot, by cycle and by bus to reach a good range of local facilities within acceptable distances. Therefore, it is considered that the site is in a sustainable location.

Given the above considerations, we believe that the objections presented by WCBC have been satisfactorily addressed and should pose no grounds for refusal of planning permission on highways grounds.

APPENDIX 1

ATC RESULTS

Automatic Classified Counts

LOCATION: CHIRK

Direction : NORTHBOUND

Monday 10/12/2018	VEHICLE CLASSIFICATION													TOTAL
Hr Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	
1	4	0	0	0	0	0	0	0	0	0	0	0	0	4
2	2	0	0	0	0	0	0	0	0	0	0	0	0	2
3	0	1	0	0	0	0	0	0	0	0	0	0	0	1
4	1	1	0	0	0	0	0	0	0	0	0	0	0	2
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	5	0	0	0	0	0	0	0	0	0	0	0	0	5
7	21	5	0	0	0	0	0	0	0	0	0	1	0	27
8	53	7	0	0	0	0	0	0	0	0	0	5	0	65
9	105	27	1	0	2	0	0	0	0	0	0	6	0	141
10	81	8	0	0	0	0	0	0	0	0	0	4	0	93
11	117	11	0	0	0	0	0	0	0	0	0	2	0	130
12	131	16	0	0	0	0	0	0	0	0	0	5	0	152
13	137	16	2	0	1	0	1	0	0	0	0	4	0	161
14	132	25	0	1	1	0	0	0	0	0	0	1	0	160
15	150	14	0	0	0	0	0	0	0	0	0	3	0	167
16	165	23	0	1	0	0	1	0	1	0	0	3	0	194
17	146	25	0	0	0	0	0	0	0	0	0	3	0	174
18	137	10	0	0	0	0	0	0	0	0	0	4	0	151
19	89	7	0	0	0	0	0	0	0	0	0	1	0	97
20	59	7	0	0	0	0	0	0	0	0	0	1	0	67
21	50	3	0	0	0	0	0	0	0	0	0	1	0	54
22	29	0	0	0	1	0	0	0	0	0	0	1	0	31
23	28	0	0	0	0	0	0	0	0	0	0	0	0	28
24	10	0	0	0	0	0	0	0	0	0	0	0	0	10

7-19	1443	189	3	2	4	0	2	0	1	0	0	41	0	1685
6-22	1602	204	3	2	5	0	2	0	1	0	0	45	0	1864
6-24	1640	204	3	2	5	0	2	0	1	0	0	45	0	1902
0-24	1652	206	3	2	5	0	2	0	1	0	0	45	0	1916

Direction : SOUTHBOUND

Monday 10/12/2018	VEHICLE CLASSIFICATION													TOTAL
Hr Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	
1	7	0	0	0	0	0	0	0	0	0	0	0	0	7
2	1	0	0	0	0	0	0	0	0	0	0	0	0	1
3	2	0	0	0	0	0	0	0	0	0	0	1	0	3
4	1	1	0	0	0	0	0	0	0	0	0	0	0	2
5	3	0	0	0	0	0	0	0	0	0	0	0	0	3
6	26	5	0	0	0	0	0	0	0	0	0	0	0	31
7	40	11	1	0	0	0	0	0	0	0	0	1	0	53
8	71	19	1	0	1	0	0	0	0	0	0	5	0	97
9	91	23	1	0	0	0	0	0	0	0	0	5	0	120
10	68	13	0	0	0	0	0	0	0	0	0	3	0	84
11	97	14	1	0	0	0	0	1	0	0	0	2	0	115
12	103	19	2	0	1	0	0	0	0	0	0	3	0	128
13	83	13	0	0	0	0	0	0	0	0	0	4	0	100
14	97	19	0	1	0	0	0	0	0	0	0	2	0	119
15	102	27	0	0	1	0	0	0	1	0	0	3	0	134
16	124	21	1	0	1	0	0	0	2	0	0	3	0	152
17	161	27	0	0	0	0	0	0	0	0	0	3	0	191
18	176	14	0	0	2	0	0	0	0	0	0	2	0	194
19	110	13	0	0	0	0	0	0	0	0	0	3	0	126
20	63	5	0	0	0	0	0	0	0	0	0	2	0	70
21	33	3	0	0	0	0	0	0	0	0	0	1	0	37
22	38	0	0	0	0	0	0	0	0	0	0	1	0	39
23	15	1	0	0	0	0	0	0	0	0	0	1	0	17
24	7	0	0	0	0	0	0	0	0	0	0	0	0	7

7-19	1283	222	6	1	6	0	0	1	3	0	0	38	0	1560
6-22	1457	241	7	1	6	0	0	1	3	0	0	43	0	1759
6-24	1479	242	7	1	6	0	0	1	3	0	0	44	0	1783
0-24	1519	248	7	1	6	0	0	1	3	0	0	45	0	1830

Automatic Classified Counts

LOCATION: CHIRK

Direction : NORTHBOUND

Monday 10/12/2018	VEHICLE SPEED (MPH)												TOTAL
Hr Ending	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
1	0	0	0	1	2	1	0	0	0	0	0	0	4
2	0	0	1	1	0	0	0	0	0	0	0	0	2
3	0	0	0	1	0	0	0	0	0	0	0	0	1
4	0	0	0	0	2	0	0	0	0	0	0	0	2
5	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	2	2	1	0	0	0	0	0	0	5
7	0	0	3	5	11	8	0	0	0	0	0	0	27
8	0	0	7	23	29	4	2	0	0	0	0	0	65
9	0	1	17	64	43	15	1	0	0	0	0	0	141
10	0	0	10	43	37	3	0	0	0	0	0	0	93
11	0	0	13	58	47	9	3	0	0	0	0	0	130
12	0	1	21	67	55	7	1	0	0	0	0	0	152
13	0	0	26	71	50	13	0	1	0	0	0	0	161
14	0	0	22	85	42	9	1	1	0	0	0	0	160
15	0	1	23	61	68	13	1	0	0	0	0	0	167
16	0	0	24	85	73	12	0	0	0	0	0	0	194
17	0	1	36	86	42	8	1	0	0	0	0	0	174
18	0	0	15	69	61	6	0	0	0	0	0	0	151
19	0	0	7	49	36	5	0	0	0	0	0	0	97
20	0	0	5	22	24	14	2	0	0	0	0	0	67
21	0	0	10	17	19	8	0	0	0	0	0	0	54
22	0	0	4	15	6	5	1	0	0	0	0	0	31
23	0	0	4	2	17	5	0	0	0	0	0	0	28
24	0	1	0	7	1	1	0	0	0	0	0	0	10

7-19	0	4	221	761	583	104	10	2	0	0	0	0	1685
6-22	0	4	243	820	643	139	13	2	0	0	0	0	1864
6-24	0	5	247	829	661	145	13	2	0	0	0	0	1902
0-24	0	5	248	834	667	147	13	2	0	0	0	0	1916

Direction : SOUTHBOUND

Monday 10/12/2018	VEHICLE SPEED (MPH)												TOTAL
Hr Ending	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
1	0	0	0	1	3	1	1	1	0	0	0	0	7
2	0	0	0	0	1	0	0	0	0	0	0	0	1
3	0	0	2	0	0	0	1	0	0	0	0	0	3
4	0	0	0	0	1	1	0	0	0	0	0	0	2
5	0	0	0	0	2	1	0	0	0	0	0	0	3
6	0	0	0	7	10	10	3	1	0	0	0	0	31
7	0	0	1	10	18	21	3	0	0	0	0	0	53
8	0	0	6	20	31	32	6	2	0	0	0	0	97
9	0	0	11	33	34	32	8	2	0	0	0	0	120
10	0	0	7	24	33	14	5	1	0	0	0	0	84
11	0	0	11	36	46	19	3	0	0	0	0	0	115
12	0	1	8	38	49	29	2	1	0	0	0	0	128
13	0	0	2	28	48	15	7	0	0	0	0	0	100
14	0	0	5	40	41	25	7	1	0	0	0	0	119
15	0	0	3	44	53	30	3	1	0	0	0	0	134
16	0	0	7	45	65	28	6	1	0	0	0	0	152
17	0	1	5	43	100	37	4	1	0	0	0	0	191
18	0	0	3	49	77	53	9	3	0	0	0	0	194
19	0	2	3	40	52	26	2	1	0	0	0	0	126
20	0	0	0	16	29	17	5	2	1	0	0	0	70
21	0	0	0	3	21	10	2	1	0	0	0	0	37
22	0	0	1	11	12	10	3	2	0	0	0	0	39
23	0	0	2	4	5	3	1	1	0	1	0	0	17
24	0	0	0	2	3	1	0	1	0	0	0	0	7

7-19	0	4	71	440	629	340	62	14	0	0	0	0	1560
6-22	0	4	73	480	709	398	75	19	1	0	0	0	1759
6-24	0	4	75	486	717	402	76	21	1	1	0	0	1783
0-24	0	4	77	494	734	415	81	23	1	1	0	0	1830

Automatic Classified Counts

LOCATION: CHIRK

Direction : NORTHBOUND

Tuesday 11/12/2018	VEHICLE CLASSIFICATION													TOTAL
Hr Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	
1	5	0	0	0	0	0	0	0	0	0	0	0	0	5
2	1	0	0	0	0	0	0	0	0	0	0	0	0	1
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	1	0	0	0	0	0	0	0	0	0	0	0	1
5	1	0	0	0	0	0	0	0	0	0	0	0	0	1
6	7	0	0	0	0	0	0	0	0	0	0	0	0	7
7	29	4	0	0	0	0	0	0	0	0	0	1	0	34
8	58	10	0	0	1	0	0	0	0	0	0	6	0	75
9	114	21	0	1	0	0	0	0	0	0	0	3	0	139
10	86	7	1	0	0	0	0	0	0	0	0	3	0	97
11	118	18	0	0	0	0	0	0	0	0	0	2	0	138
12	124	19	0	0	0	0	0	0	0	0	0	3	0	146
13	131	9	1	0	0	0	1	0	0	0	0	2	0	144
14	119	20	1	0	0	0	0	0	0	0	0	2	0	142
15	145	16	0	0	0	0	0	0	0	0	0	2	0	163
16	153	23	0	0	0	0	0	0	0	0	0	3	0	179
17	114	16	1	0	0	0	0	0	1	0	0	5	0	137
18	157	16	0	0	0	0	0	0	0	0	0	1	0	174
19	94	8	0	0	0	0	0	0	0	0	0	2	0	104
20	75	9	0	0	0	0	0	0	0	0	0	1	0	85
21	38	3	0	0	0	0	0	0	0	0	0	1	0	42
22	28	2	0	0	0	0	0	0	0	0	0	1	0	31
23	30	1	0	0	0	0	0	0	0	0	0	0	0	31
24	7	0	0	0	0	0	0	0	0	0	0	0	0	7

7-19	1413	183	4	1	1	0	1	0	1	0	0	34	0	1638
6-22	1583	201	4	1	1	0	1	0	1	0	0	38	0	1830
6-24	1620	202	4	1	1	0	1	0	1	0	0	38	0	1868
0-24	1634	203	4	1	1	0	1	0	1	0	0	38	0	1883

Direction : SOUTHBOUND

Tuesday 11/12/2018	VEHICLE CLASSIFICATION													TOTAL
Hr Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	
1	7	0	0	0	0	0	0	0	0	0	0	0	0	7
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	1	0	0	0	0	0	0	0	0	0	0	0	0	1
5	4	0	0	0	0	0	0	0	0	0	0	0	0	4
6	28	3	0	0	0	0	0	0	0	0	0	0	0	31
7	36	13	0	0	0	0	0	0	0	0	0	0	0	49
8	78	21	0	0	0	0	0	0	0	0	0	4	0	103
9	79	27	1	0	0	0	0	0	1	0	0	4	0	112
10	91	19	0	0	0	0	0	0	0	0	0	3	0	113
11	110	12	0	0	0	0	0	0	1	0	0	2	0	125
12	104	15	1	0	0	0	0	0	0	0	0	3	0	123
13	98	16	0	0	0	0	0	0	0	0	1	2	0	117
14	103	15	0	0	0	0	0	0	0	0	0	3	0	121
15	127	17	0	0	0	0	0	0	0	0	0	4	0	148
16	156	20	0	0	0	0	0	0	1	0	0	4	0	181
17	181	23	0	0	0	0	0	0	0	0	0	4	0	208
18	274	28	0	0	1	0	0	0	3	0	0	4	0	310
19	117	11	0	0	0	0	0	0	0	0	0	4	0	132
20	74	6	0	0	0	0	0	0	0	0	0	0	0	80
21	33	3	0	0	0	0	0	0	0	0	0	1	0	37
22	35	3	0	0	0	0	0	0	0	0	0	1	0	39
23	19	2	0	0	0	0	0	0	0	0	0	1	0	22
24	13	0	0	0	0	0	0	0	0	0	0	0	0	13

7-19	1518	224	2	0	1	0	0	0	6	0	1	41	0	1793
6-22	1696	249	2	0	1	0	0	0	6	0	1	43	0	1998
6-24	1728	251	2	0	1	0	0	0	6	0	1	44	0	2033
0-24	1768	254	2	0	1	0	0	0	6	0	1	44	0	2076

Automatic Classified Counts

LOCATION: CHIRK

Direction : NORTHBOUND

Tuesday 11/12/2018	VEHICLE SPEED (MPH)												TOTAL
Hr Ending	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
1	0	0	0	2	2	1	0	0	0	0	0	0	5
2	0	0	0	0	1	0	0	0	0	0	0	0	1
3	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	1	0	0	0	0	0	0	0	0	1
5	0	0	0	0	1	0	0	0	0	0	0	0	1
6	0	0	2	1	3	1	0	0	0	0	0	0	7
7	0	0	3	10	17	4	0	0	0	0	0	0	34
8	0	0	17	25	26	7	0	0	0	0	0	0	75
9	0	0	10	48	65	14	2	0	0	0	0	0	139
10	0	0	7	40	44	4	1	1	0	0	0	0	97
11	0	0	16	65	45	12	0	0	0	0	0	0	138
12	0	0	12	72	48	14	0	0	0	0	0	0	146
13	0	0	26	61	35	17	2	2	1	0	0	0	144
14	0	1	15	53	58	12	3	0	0	0	0	0	142
15	0	1	31	67	55	8	0	1	0	0	0	0	163
16	0	0	23	70	72	11	1	1	1	0	0	0	179
17	0	0	19	77	35	4	1	1	0	0	0	0	137
18	0	0	14	88	59	9	4	0	0	0	0	0	174
19	0	0	10	36	49	8	0	0	1	0	0	0	104
20	0	0	15	29	29	11	0	1	0	0	0	0	85
21	0	0	4	18	14	6	0	0	0	0	0	0	42
22	0	0	6	13	9	3	0	0	0	0	0	0	31
23	0	1	4	11	11	4	0	0	0	0	0	0	31
24	0	0	0	2	3	2	0	0	0	0	0	0	7

7-19	0	2	200	702	591	120	14	6	3	0	0	0	1638
6-22	0	2	228	772	660	144	14	7	3	0	0	0	1830
6-24	0	3	232	785	674	150	14	7	3	0	0	0	1868
0-24	0	3	234	789	681	152	14	7	3	0	0	0	1883

Direction : SOUTHBOUND

Tuesday 11/12/2018	VEHICLE SPEED (MPH)												TOTAL
Hr Ending	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
1	0	0	0	1	4	1	0	1	0	0	0	0	7
2	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	1	0	0	0	0	0	0	0	1
5	0	0	0	0	2	2	0	0	0	0	0	0	4
6	0	0	0	4	16	10	1	0	0	0	0	0	31
7	0	0	0	6	21	14	5	3	0	0	0	0	49
8	0	1	7	18	35	27	11	4	0	0	0	0	103
9	0	3	9	37	44	15	4	0	0	0	0	0	112
10	0	1	10	41	40	19	1	1	0	0	0	0	113
11	0	1	9	35	48	23	7	2	0	0	0	0	125
12	0	1	7	37	35	34	6	3	0	0	0	0	123
13	0	3	3	31	50	25	4	0	1	0	0	0	117
14	0	0	10	29	54	23	4	1	0	0	0	0	121
15	0	0	8	46	66	21	3	4	0	0	0	0	148
16	0	0	22	64	56	30	8	1	0	0	0	0	181
17	0	0	5	59	93	44	5	2	0	0	0	0	208
18	0	0	8	68	148	57	22	7	0	0	0	0	310
19	0	1	4	35	59	29	4	0	0	0	0	0	132
20	0	2	1	18	33	20	6	0	0	0	0	0	80
21	0	0	4	9	17	7	0	0	0	0	0	0	37
22	0	0	0	5	23	9	1	0	0	1	0	0	39
23	0	0	0	4	10	6	1	1	0	0	0	0	22
24	0	0	0	1	3	7	2	0	0	0	0	0	13

7-19	0	11	102	500	728	347	79	25	1	0	0	0	1793
6-22	0	13	107	538	822	397	91	28	1	1	0	0	1998
6-24	0	13	107	543	835	410	94	29	1	1	0	0	2033
0-24	0	13	107	548	858	423	95	30	1	1	0	0	2076

Automatic Classified Counts

LOCATION: CHIRK

Direction : NORTHBOUND

Wednesday 12/12/2018	VEHICLE CLASSIFICATION													TOTAL
Hr Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	
1	3	0	0	0	0	0	0	0	0	0	0	0	0	3
2	3	0	0	0	0	0	0	0	0	0	0	0	0	3
3	1	1	0	0	0	0	0	0	0	0	0	0	0	2
4	2	0	0	0	0	0	0	0	0	0	0	0	0	2
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	6	1	0	0	0	0	0	0	0	0	0	0	0	7
7	26	4	0	0	0	0	0	0	0	0	0	1	0	31
8	71	11	0	0	0	0	0	0	0	0	0	6	0	88
9	104	26	0	0	0	0	0	0	0	0	0	4	0	134
10	64	12	0	0	2	0	0	0	0	0	0	2	0	80
11	72	13	0	0	0	0	0	0	0	0	0	3	0	88
12	80	6	0	0	1	0	0	0	0	0	0	2	0	89
13	100	10	0	0	0	0	0	0	0	0	0	2	0	112
14	108	9	0	0	2	0	0	0	1	0	0	2	0	122
15	98	15	0	0	0	0	0	0	0	0	0	2	0	115
16	140	20	0	0	0	0	0	0	0	0	1	3	0	164
17	103	18	0	0	0	0	0	0	0	0	0	5	0	126
18	134	10	0	0	0	0	0	0	0	0	0	2	0	146
19	77	7	0	0	0	0	0	0	0	0	0	1	0	85
20	64	8	0	0	0	0	0	0	0	0	0	1	0	73
21	45	0	0	0	0	0	0	0	0	0	0	1	0	46
22	31	2	0	0	0	0	0	0	0	0	0	1	0	34
23	29	0	0	0	0	0	0	0	0	0	0	0	0	29
24	4	1	0	0	0	0	0	0	0	0	0	0	0	5

7-19	1151	157	0	0	5	0	0	0	1	0	1	34	0	1349
6-22	1317	171	0	0	5	0	0	0	1	0	1	38	0	1533
6-24	1350	172	0	0	5	0	0	0	1	0	1	38	0	1567
0-24	1365	174	0	0	5	0	0	0	1	0	1	38	0	1584

Direction : SOUTHBOUND

Wednesday 12/12/2018	VEHICLE CLASSIFICATION													TOTAL
Hr Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	
1	2	1	0	0	0	0	0	0	0	0	0	0	0	3
2	2	0	0	0	0	0	0	0	0	0	0	0	0	2
3	2	0	0	0	0	0	0	0	0	0	0	0	0	2
4	3	0	0	0	0	0	0	0	0	0	0	0	0	3
5	3	0	0	0	0	0	0	0	0	0	0	0	0	3
6	29	1	0	0	0	0	0	0	0	0	0	0	0	30
7	37	13	0	0	0	0	0	0	0	0	0	0	0	50
8	63	13	1	0	0	0	0	0	1	0	0	3	0	81
9	97	23	0	0	1	0	0	0	0	0	0	2	0	123
10	87	14	0	0	0	0	0	0	0	0	0	5	0	106
11	80	8	1	0	1	0	1	0	0	0	1	2	0	94
12	105	15	0	0	1	0	0	0	0	0	0	5	0	126
13	94	11	1	0	0	0	0	0	0	0	0	3	0	109
14	95	10	0	0	0	0	0	0	1	0	0	3	0	109
15	108	20	0	0	0	0	1	0	0	0	0	3	0	132
16	122	25	0	0	2	0	0	0	0	0	0	4	0	153
17	152	26	0	0	0	0	0	0	0	0	0	1	0	179
18	193	20	0	0	0	0	0	0	0	0	1	4	0	218
19	110	11	0	0	0	0	0	0	0	0	0	3	0	124
20	77	5	0	0	0	0	0	0	0	0	0	1	0	83
21	36	4	0	0	0	0	0	0	0	0	0	1	0	41
22	28	3	0	0	0	0	0	0	0	0	0	1	0	32
23	26	3	0	0	0	0	0	0	0	0	0	1	0	30
24	10	0	0	0	0	0	0	0	0	0	0	0	0	10

7-19	1306	196	3	0	5	0	2	0	2	0	2	38	0	1554
6-22	1484	221	3	0	5	0	2	0	2	0	2	41	0	1760
6-24	1520	224	3	0	5	0	2	0	2	0	2	42	0	1800
0-24	1561	226	3	0	5	0	2	0	2	0	2	42	0	1843

Automatic Classified Counts

LOCATION: CHIRK

Direction : NORTHBOUND

Wednesday 12/12/2018	VEHICLE SPEED (MPH)												TOTAL
Hr Ending	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
1	0	0	0	1	0	2	0	0	0	0	0	0	3
2	0	0	0	2	0	1	0	0	0	0	0	0	3
3	0	0	0	1	0	1	0	0	0	0	0	0	2
4	0	0	0	0	1	1	0	0	0	0	0	0	2
5	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	2	3	2	0	0	0	0	0	0	7
7	0	0	1	6	17	6	1	0	0	0	0	0	31
8	0	0	10	31	35	8	2	2	0	0	0	0	88
9	0	0	15	50	56	12	1	0	0	0	0	0	134
10	0	0	8	26	42	4	0	0	0	0	0	0	80
11	0	0	11	40	30	7	0	0	0	0	0	0	88
12	0	0	17	43	25	4	0	0	0	0	0	0	89
13	0	0	16	54	35	7	0	0	0	0	0	0	112
14	0	0	19	59	38	5	1	0	0	0	0	0	122
15	0	0	12	54	35	14	0	0	0	0	0	0	115
16	0	0	25	65	61	13	0	0	0	0	0	0	164
17	0	0	21	57	39	6	2	1	0	0	0	0	126
18	0	0	15	63	52	13	1	2	0	0	0	0	146
19	0	1	19	37	23	5	0	0	0	0	0	0	85
20	0	0	8	28	27	8	2	0	0	0	0	0	73
21	0	0	5	15	15	7	4	0	0	0	0	0	46
22	0	1	4	12	14	3	0	0	0	0	0	0	34
23	0	0	2	6	10	10	0	1	0	0	0	0	29
24	0	0	0	3	2	0	0	0	0	0	0	0	5

7-19	0	1	188	579	471	98	7	5	0	0	0	0	1349
6-22	0	2	206	640	544	122	14	5	0	0	0	0	1533
6-24	0	2	208	649	556	132	14	6	0	0	0	0	1567
0-24	0	2	208	655	560	139	14	6	0	0	0	0	1584

Direction : SOUTHBOUND

Wednesday 12/12/2018	VEHICLE SPEED (MPH)												TOTAL
Hr Ending	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
1	0	0	0	1	2	0	0	0	0	0	0	0	3
2	0	0	0	1	0	1	0	0	0	0	0	0	2
3	0	0	0	0	1	1	0	0	0	0	0	0	2
4	0	0	0	0	0	2	1	0	0	0	0	0	3
5	0	0	0	0	2	1	0	0	0	0	0	0	3
6	0	1	0	2	9	12	4	2	0	0	0	0	30
7	0	0	0	6	23	12	7	2	0	0	0	0	50
8	0	0	9	13	31	21	5	2	0	0	0	0	81
9	0	0	9	46	43	18	5	2	0	0	0	0	123
10	0	0	12	37	31	19	7	0	0	0	0	0	106
11	0	0	6	40	31	14	2	1	0	0	0	0	94
12	0	0	2	46	61	16	0	1	0	0	0	0	126
13	0	0	8	45	33	18	4	1	0	0	0	0	109
14	0	0	8	40	38	20	2	1	0	0	0	0	109
15	0	0	14	41	56	18	3	0	0	0	0	0	132
16	0	0	6	54	67	18	8	0	0	0	0	0	153
17	0	0	9	37	82	42	7	2	0	0	0	0	179
18	0	0	6	69	99	34	7	3	0	0	0	0	218
19	1	0	5	33	47	34	2	1	1	0	0	0	124
20	0	0	7	10	40	20	5	1	0	0	0	0	83
21	0	0	1	4	21	11	3	1	0	0	0	0	41
22	0	0	3	2	10	12	2	2	1	0	0	0	32
23	0	0	0	7	14	6	2	1	0	0	0	0	30
24	0	0	1	3	1	4	1	0	0	0	0	0	10

7-19	1	0	94	501	619	272	52	14	1	0	0	0	1554
6-22	1	0	105	523	713	327	69	20	2	0	0	0	1760
6-24	1	0	106	533	728	337	72	21	2	0	0	0	1800
0-24	1	1	106	537	742	354	77	23	2	0	0	0	1843

Automatic Classified Counts

LOCATION: CHIRK

Direction : NORTHBOUND

Thursday 13/12/2018	VEHICLE CLASSIFICATION													TOTAL
Hr Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	
1	4	0	0	0	0	0	0	0	0	0	0	0	0	4
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	1	1	0	0	0	0	0	0	0	0	0	0	0	2
4	1	0	0	0	0	0	0	0	0	0	0	0	0	1
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	7	1	0	0	0	0	0	0	0	0	0	0	0	8
7	32	1	0	0	0	0	0	0	0	0	0	2	0	35
8	61	13	0	0	0	0	0	0	0	0	0	6	0	80
9	96	23	0	0	0	0	0	0	0	0	0	2	0	121
10	78	15	1	0	0	0	2	0	0	0	0	2	0	98
11	69	16	0	0	0	0	0	0	0	0	0	3	0	88
12	75	15	0	0	0	0	0	0	0	0	0	2	0	92
13	76	17	1	0	0	0	0	0	0	0	0	2	0	96
14	96	15	0	0	0	0	0	0	0	0	0	3	0	114
15	102	19	0	0	0	0	0	0	0	1	0	2	0	124
16	130	19	0	0	0	0	0	0	0	0	0	2	0	151
17	112	19	1	0	0	0	0	0	0	0	0	1	0	133
18	133	23	0	0	1	0	0	0	0	0	0	3	0	160
19	102	13	0	0	0	0	0	0	0	0	0	1	0	116
20	75	10	0	0	0	0	0	0	0	0	0	1	0	86
21	61	0	0	0	0	0	0	1	0	0	0	1	0	63
22	35	0	0	0	0	0	0	0	0	0	0	1	0	36
23	26	3	0	0	0	0	0	0	0	0	0	0	0	29
24	11	1	0	0	0	0	0	0	0	0	0	0	0	12

7-19	1130	207	3	0	1	0	2	0	0	1	0	29	0	1373
6-22	1333	218	3	0	1	0	2	1	0	1	0	34	0	1593
6-24	1370	222	3	0	1	0	2	1	0	1	0	34	0	1634
0-24	1383	224	3	0	1	0	2	1	0	1	0	34	0	1649

Direction : SOUTHBOUND

Thursday 13/12/2018	VEHICLE CLASSIFICATION													TOTAL
Hr Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	
1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
2	1	0	0	0	0	0	0	0	0	0	0	0	0	1
3	1	0	0	0	0	0	0	0	0	0	0	0	0	1
4	0	1	0	0	0	0	0	0	0	0	0	0	0	1
5	7	1	0	0	0	0	0	0	0	0	0	0	0	8
6	24	0	0	0	0	0	0	0	0	0	0	0	0	24
7	36	11	0	0	0	0	0	0	0	0	0	0	0	47
8	60	20	1	0	0	0	0	0	0	0	0	5	0	86
9	92	22	0	0	0	0	0	0	0	0	1	3	0	118
10	93	13	0	0	0	0	0	0	0	0	0	2	0	108
11	83	24	0	0	0	0	0	0	0	0	0	3	0	110
12	94	15	0	0	1	0	0	0	1	0	0	3	0	114
13	92	17	0	0	0	0	1	0	0	0	0	5	0	115
14	101	20	0	0	0	0	0	0	1	0	0	2	0	124
15	101	23	0	0	0	0	0	0	0	0	0	2	0	126
16	145	30	1	0	0	0	0	0	1	0	0	4	0	181
17	266	59	1	0	1	0	0	0	0	0	0	4	0	331
18	278	28	0	0	0	0	0	0	0	0	0	3	0	309
19	108	19	0	0	0	0	0	1	0	0	0	4	0	132
20	82	5	0	0	0	0	0	0	0	0	0	2	0	89
21	62	3	0	0	0	0	0	0	0	0	0	1	0	66
22	36	4	0	0	0	0	0	0	0	0	0	1	0	41
23	16	3	0	0	0	0	0	0	0	0	0	1	0	20
24	8	2	0	0	0	0	0	0	0	0	0	0	0	10

7-19	1513	290	3	0	2	0	1	1	3	0	1	40	0	1854
6-22	1729	313	3	0	2	0	1	1	3	0	1	44	0	2097
6-24	1753	318	3	0	2	0	1	1	3	0	1	45	0	2127
0-24	1787	320	3	0	2	0	1	1	3	0	1	45	0	2163

Automatic Classified Counts

LOCATION: CHIRK

Direction : NORTHBOUND

Thursday 13/12/2018	VEHICLE SPEED (MPH)												TOTAL
Hr Ending	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
1	0	0	0	0	2	2	0	0	0	0	0	0	4
2	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	2	0	0	0	0	0	0	0	0	2
4	0	0	0	1	0	0	0	0	0	0	0	0	1
5	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	1	6	1	0	0	0	0	0	0	8
7	0	0	3	13	14	5	0	0	0	0	0	0	35
8	0	0	14	31	31	4	0	0	0	0	0	0	80
9	0	0	4	45	61	11	0	0	0	0	0	0	121
10	0	0	20	37	32	7	2	0	0	0	0	0	98
11	0	0	9	41	35	3	0	0	0	0	0	0	88
12	0	0	13	38	35	6	0	0	0	0	0	0	92
13	0	0	10	42	39	4	1	0	0	0	0	0	96
14	0	9	19	45	30	8	3	0	0	0	0	0	114
15	0	2	11	53	45	12	1	0	0	0	0	0	124
16	0	4	18	62	51	15	1	0	0	0	0	0	151
17	0	0	24	55	42	8	4	0	0	0	0	0	133
18	0	0	29	70	53	6	2	0	0	0	0	0	160
19	0	1	22	40	41	10	2	0	0	0	0	0	116
20	0	0	14	38	27	7	0	0	0	0	0	0	86
21	0	0	10	26	19	5	1	2	0	0	0	0	63
22	0	0	2	14	13	5	1	1	0	0	0	0	36
23	0	0	5	9	4	9	2	0	0	0	0	0	29
24	0	0	1	5	5	1	0	0	0	0	0	0	12

7-19	0	16	193	559	495	94	16	0	0	0	0	0	1373
6-22	0	16	222	650	568	116	18	3	0	0	0	0	1593
6-24	0	16	228	664	577	126	20	3	0	0	0	0	1634
0-24	0	16	228	668	585	129	20	3	0	0	0	0	1649

Direction : SOUTHBOUND

Thursday 13/12/2018	VEHICLE SPEED (MPH)												TOTAL
Hr Ending	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
1	0	0	0	0	0	1	0	0	0	0	0	0	1
2	0	0	0	0	0	1	0	0	0	0	0	0	1
3	1	0	0	0	0	0	0	0	0	0	0	0	1
4	0	0	0	0	0	1	0	0	0	0	0	0	1
5	0	0	0	0	5	2	0	1	0	0	0	0	8
6	0	1	0	5	6	6	5	1	0	0	0	0	24
7	0	0	0	5	18	18	5	1	0	0	0	0	47
8	0	0	5	15	36	21	7	2	0	0	0	0	86
9	0	0	4	26	52	27	7	2	0	0	0	0	118
10	0	0	2	38	44	18	4	2	0	0	0	0	108
11	0	0	9	35	41	22	3	0	0	0	0	0	110
12	0	0	9	40	47	15	3	0	0	0	0	0	114
13	0	1	3	30	49	26	5	1	0	0	0	0	115
14	0	1	7	55	42	13	4	2	0	0	0	0	124
15	0	0	4	39	57	17	8	1	0	0	0	0	126
16	0	0	9	59	72	35	6	0	0	0	0	0	181
17	0	0	25	108	151	41	5	1	0	0	0	0	331
18	0	0	11	88	137	53	16	4	0	0	0	0	309
19	0	0	9	34	45	31	11	2	0	0	0	0	132
20	0	0	2	24	34	21	7	0	1	0	0	0	89
21	0	0	1	14	24	20	4	2	0	1	0	0	66
22	0	0	1	10	20	8	2	0	0	0	0	0	41
23	0	0	1	3	9	5	1	1	0	0	0	0	20
24	0	0	0	2	3	3	0	2	0	0	0	0	10

7-19	0	2	97	567	773	319	79	17	0	0	0	0	1854
6-22	0	2	101	620	869	386	97	20	1	1	0	0	2097
6-24	0	2	102	625	881	394	98	23	1	1	0	0	2127
0-24	1	3	102	630	892	405	103	25	1	1	0	0	2163

Automatic Classified Counts

LOCATION: CHIRK

Direction : NORTHBOUND

Friday 14/12/2018	VEHICLE CLASSIFICATION													TOTAL
Hr Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	
1	3	0	0	0	0	0	0	0	0	0	0	0	0	3
2	2	1	0	0	0	0	0	0	0	0	0	0	0	3
3	3	1	0	0	0	0	0	0	0	0	0	0	0	4
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	2	0	0	0	0	0	0	0	0	0	0	0	0	2
6	7	1	0	0	0	0	0	0	0	0	0	0	0	8
7	26	2	0	0	0	0	0	0	0	0	0	2	0	30
8	48	10	0	0	0	0	0	0	0	0	0	6	0	64
9	93	18	0	0	0	0	0	0	0	0	0	2	0	113
10	86	9	0	0	0	0	0	0	0	0	0	3	0	98
11	89	13	0	0	0	0	0	0	0	0	0	3	0	105
12	95	19	0	0	1	0	0	0	0	0	0	3	0	118
13	103	17	0	0	0	0	0	0	0	0	0	4	0	124
14	96	15	0	0	0	0	1	0	0	0	0	2	0	114
15	106	10	0	0	1	0	0	0	0	0	0	3	0	120
16	153	21	0	0	1	0	0	0	0	0	0	5	0	180
17	131	18	0	0	0	0	0	0	0	0	0	3	0	152
18	151	21	1	0	0	0	0	0	0	0	0	1	0	174
19	116	10	0	0	0	0	0	0	0	0	0	1	0	127
20	75	9	0	0	0	0	0	0	0	0	0	1	0	85
21	40	3	0	0	0	0	0	0	0	0	0	1	0	44
22	37	2	0	0	0	0	0	0	0	0	0	1	0	40
23	33	0	0	0	0	0	0	0	0	0	0	0	0	33
24	17	0	0	0	0	0	0	0	0	0	0	0	0	17

7-19	1267	181	1	0	3	0	1	0	0	0	0	36	0	1489
6-22	1445	197	1	0	3	0	1	0	0	0	0	41	0	1688
6-24	1495	197	1	0	3	0	1	0	0	0	0	41	0	1738
0-24	1512	200	1	0	3	0	1	0	0	0	0	41	0	1758

Direction : SOUTHBOUND

Friday 14/12/2018	VEHICLE CLASSIFICATION													TOTAL
Hr Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	
1	5	0	0	0	0	0	0	0	0	0	0	0	0	5
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	2	0	0	0	0	0	0	0	0	0	0	0	0	2
4	1	0	0	0	0	0	0	0	0	0	0	0	0	1
5	4	0	0	0	0	0	0	0	0	0	0	0	0	4
6	22	0	0	0	0	0	0	0	0	0	0	0	0	22
7	31	10	0	0	0	0	0	1	0	0	0	0	0	42
8	60	13	0	0	0	0	0	0	0	0	0	3	0	76
9	81	22	0	0	0	0	0	0	0	0	0	1	0	104
10	78	17	0	0	0	0	0	0	0	0	1	2	0	98
11	93	19	0	0	0	0	1	0	0	0	0	2	0	115
12	105	18	0	0	0	0	0	0	0	0	0	3	0	126
13	113	28	1	1	0	0	0	0	1	0	0	3	0	147
14	107	17	0	0	0	0	0	0	0	0	0	4	0	128
15	144	15	1	0	2	0	0	1	0	0	0	4	0	167
16	215	38	1	0	1	0	0	0	0	0	0	4	0	259
17	305	55	0	0	0	0	1	0	0	0	0	3	0	364
18	158	28	0	0	0	0	0	0	1	0	0	4	0	191
19	112	14	0	0	0	0	0	0	0	0	0	5	0	131
20	70	9	0	0	0	0	0	0	0	0	0	1	0	80
21	44	4	0	0	0	0	0	0	0	0	0	1	0	49
22	32	2	0	0	0	0	0	0	0	0	0	1	0	35
23	57	2	0	0	0	0	0	0	0	0	0	1	0	60
24	16	2	0	0	0	0	0	0	0	0	0	0	0	18

7-19	1571	284	3	1	3	0	2	1	2	0	1	38	0	1906
6-22	1748	309	3	1	3	0	2	2	2	0	1	41	0	2112
6-24	1821	313	3	1	3	0	2	2	2	0	1	42	0	2190
0-24	1855	313	3	1	3	0	2	2	2	0	1	42	0	2224

Automatic Classified Counts

LOCATION: CHIRK

Direction : NORTHBOUND

Friday 14/12/2018	VEHICLE SPEED (MPH)												TOTAL
Hr Ending	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
1	0	0	0	1	2	0	0	0	0	0	0	0	3
2	0	0	0	2	1	0	0	0	0	0	0	0	3
3	0	0	0	2	1	0	1	0	0	0	0	0	4
4	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	1	1	0	0	0	0	0	2
6	0	0	0	3	5	0	0	0	0	0	0	0	8
7	0	0	3	15	10	2	0	0	0	0	0	0	30
8	0	0	10	25	26	2	1	0	0	0	0	0	64
9	0	1	6	51	47	7	1	0	0	0	0	0	113
10	0	0	12	53	29	4	0	0	0	0	0	0	98
11	0	0	17	52	29	7	0	0	0	0	0	0	105
12	0	1	15	60	39	3	0	0	0	0	0	0	118
13	0	0	22	42	49	11	0	0	0	0	0	0	124
14	0	0	15	50	39	10	0	0	0	0	0	0	114
15	0	0	13	53	46	8	0	0	0	0	0	0	120
16	0	0	17	90	59	13	1	0	0	0	0	0	180
17	0	0	27	61	53	9	2	0	0	0	0	0	152
18	0	0	13	95	59	5	1	1	0	0	0	0	174
19	0	0	25	61	34	6	1	0	0	0	0	0	127
20	0	0	12	26	38	7	2	0	0	0	0	0	85
21	0	0	7	20	16	0	0	1	0	0	0	0	44
22	0	0	10	10	15	4	0	1	0	0	0	0	40
23	0	0	2	12	14	4	1	0	0	0	0	0	33
24	0	1	1	6	5	4	0	0	0	0	0	0	17

7-19	0	2	192	693	509	85	7	1	0	0	0	0	1489
6-22	0	2	224	764	588	98	9	3	0	0	0	0	1688
6-24	0	3	227	782	607	106	10	3	0	0	0	0	1738
0-24	0	3	227	790	616	107	12	3	0	0	0	0	1758

Direction : SOUTHBOUND

Friday 14/12/2018	VEHICLE SPEED (MPH)												TOTAL
Hr Ending	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
1	0	0	0	0	3	2	0	0	0	0	0	0	5
2	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	1	1	0	0	0	0	0	2
4	0	0	0	0	0	0	1	0	0	0	0	0	1
5	0	0	0	1	2	1	0	0	0	0	0	0	4
6	0	0	1	3	6	9	3	0	0	0	0	0	22
7	0	0	0	6	19	14	3	0	0	0	0	0	42
8	0	0	4	20	31	14	6	1	0	0	0	0	76
9	0	0	6	27	46	19	5	0	1	0	0	0	104
10	0	0	4	30	44	18	1	1	0	0	0	0	98
11	0	0	13	52	35	14	0	1	0	0	0	0	115
12	0	0	14	52	47	10	3	0	0	0	0	0	126
13	0	1	15	62	51	13	4	1	0	0	0	0	147
14	0	0	9	29	63	24	2	1	0	0	0	0	128
15	0	1	2	57	76	25	6	0	0	0	0	0	167
16	0	0	19	75	114	39	10	2	0	0	0	0	259
17	0	0	18	137	163	40	5	1	0	0	0	0	364
18	0	4	10	43	94	37	3	0	0	0	0	0	191
19	0	1	4	42	55	24	5	0	0	0	0	0	131
20	0	0	1	19	36	21	3	0	0	0	0	0	80
21	0	0	8	10	15	12	2	1	1	0	0	0	49
22	0	0	2	9	16	5	3	0	0	0	0	0	35
23	0	0	3	15	25	14	2	1	0	0	0	0	60
24	0	0	1	5	6	3	3	0	0	0	0	0	18

7-19	0	7	118	626	819	277	50	8	1	0	0	0	1906
6-22	0	7	129	670	905	329	61	9	2	0	0	0	2112
6-24	0	7	133	690	936	346	66	10	2	0	0	0	2190
0-24	0	7	134	694	947	359	71	10	2	0	0	0	2224

Automatic Classified Counts

LOCATION: CHIRK

Direction : NORTHBOUND

Saturday 15/12/2018	VEHICLE CLASSIFICATION													TOTAL
Hr Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	
1	15	0	0	0	0	0	0	0	0	0	0	0	0	15
2	5	3	0	0	0	0	0	0	0	0	0	0	0	8
3	4	0	0	0	0	0	0	0	0	0	0	0	0	4
4	1	1	0	0	0	0	0	0	0	0	0	0	0	2
5	1	0	0	0	0	0	0	0	0	0	0	0	0	1
6	2	0	0	0	0	0	0	0	0	0	0	0	0	2
7	20	1	0	0	0	0	0	0	0	0	0	0	0	21
8	17	4	0	0	0	0	0	0	0	0	0	3	0	24
9	36	3	0	0	0	0	0	0	0	0	0	4	0	43
10	70	8	0	1	0	0	0	0	0	0	0	1	0	80
11	85	4	0	0	0	0	0	0	1	0	0	3	0	93
12	96	6	0	0	0	0	0	0	0	0	0	3	0	105
13	115	8	0	0	0	0	0	0	0	0	0	3	0	126
14	109	9	0	0	0	0	0	0	0	0	0	3	0	121
15	104	13	0	0	0	0	0	0	0	0	0	2	0	119
16	92	7	0	0	0	0	0	0	0	0	0	1	0	100
17	89	10	0	0	0	0	0	0	0	0	0	1	0	100
18	65	3	0	0	0	0	0	0	0	0	0	2	0	70
19	60	3	0	0	0	0	0	0	0	0	0	1	0	64
20	59	1	0	0	0	0	0	0	0	0	0	1	0	61
21	33	2	0	0	0	0	0	0	0	0	0	1	0	36
22	21	1	0	0	0	0	0	0	0	0	0	1	0	23
23	15	1	0	0	0	0	0	0	0	0	0	0	0	16
24	20	1	0	0	0	0	0	0	0	0	0	0	0	21

7-19	938	78	0	1	0	0	0	0	1	0	0	27	0	1045
6-22	1071	83	0	1	0	0	0	0	1	0	0	30	0	1186
6-24	1106	85	0	1	0	0	0	0	1	0	0	30	0	1223
0-24	1134	89	0	1	0	0	0	0	1	0	0	30	0	1255

Direction : SOUTHBOUND

Saturday 15/12/2018	VEHICLE CLASSIFICATION													TOTAL
Hr Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	
1	15	0	0	0	0	0	0	0	0	0	0	0	0	15
2	7	1	0	0	0	0	1	0	0	0	0	0	0	9
3	2	1	0	0	0	0	0	0	0	0	0	0	0	3
4	3	2	0	0	0	0	0	0	0	0	0	0	0	5
5	3	0	0	0	0	0	0	0	0	0	0	0	0	3
6	15	0	0	0	0	0	0	0	0	0	0	0	0	15
7	12	7	0	0	0	0	0	0	0	0	0	0	0	19
8	21	1	0	0	0	0	0	0	0	0	0	2	0	24
9	50	5	0	1	0	0	0	0	0	0	0	1	0	57
10	67	10	0	0	0	0	0	0	0	0	0	2	0	79
11	92	4	0	0	0	0	0	0	1	0	0	2	0	99
12	105	13	0	0	0	0	0	0	0	0	0	3	0	121
13	96	12	0	0	0	0	0	0	0	0	0	2	0	110
14	99	7	0	0	0	0	0	0	0	0	0	2	0	108
15	91	14	0	0	0	0	0	0	0	0	0	3	0	108
16	91	12	0	0	0	0	0	0	0	0	0	2	0	105
17	81	15	0	0	0	0	0	0	0	0	0	2	0	98
18	85	6	0	0	0	0	0	0	0	0	0	3	0	94
19	63	8	0	0	0	0	0	0	0	0	0	2	0	73
20	52	5	0	0	0	0	0	0	0	0	0	1	0	58
21	32	5	0	0	0	0	0	0	0	0	0	1	0	38
22	24	0	0	0	0	0	0	0	0	0	0	1	0	25
23	19	4	0	0	0	0	0	0	0	0	0	1	0	24
24	20	0	0	0	0	0	0	0	0	0	0	1	0	21

7-19	941	107	0	1	0	0	0	0	1	0	0	26	0	1076
6-22	1061	124	0	1	0	0	0	0	1	0	0	29	0	1216
6-24	1100	128	0	1	0	0	0	0	1	0	0	31	0	1261
0-24	1145	132	0	1	0	0	1	0	1	0	0	31	0	1311

Automatic Classified Counts

LOCATION: CHIRK

Direction : NORTHBOUND

Saturday 15/12/2018	VEHICLE SPEED (MPH)												TOTAL
Hr Ending	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
1	0	0	2	5	5	1	1	1	0	0	0	0	15
2	0	0	0	2	4	2	0	0	0	0	0	0	8
3	0	0	1	1	2	0	0	0	0	0	0	0	4
4	0	0	0	1	1	0	0	0	0	0	0	0	2
5	0	0	1	0	0	0	0	0	0	0	0	0	1
6	0	0	1	0	0	1	0	0	0	0	0	0	2
7	0	1	1	6	11	2	0	0	0	0	0	0	21
8	0	0	9	4	8	3	0	0	0	0	0	0	24
9	0	0	11	19	8	5	0	0	0	0	0	0	43
10	0	1	6	40	29	3	1	0	0	0	0	0	80
11	0	0	7	54	28	4	0	0	0	0	0	0	93
12	0	0	13	48	40	3	1	0	0	0	0	0	105
13	0	0	13	59	44	6	4	0	0	0	0	0	126
14	0	0	19	58	36	7	1	0	0	0	0	0	121
15	0	0	11	62	43	3	0	0	0	0	0	0	119
16	0	0	14	51	28	7	0	0	0	0	0	0	100
17	0	0	24	53	19	4	0	0	0	0	0	0	100
18	0	0	16	29	23	1	1	0	0	0	0	0	70
19	0	1	5	37	13	6	1	1	0	0	0	0	64
20	0	0	9	24	16	10	2	0	0	0	0	0	61
21	0	0	7	18	8	3	0	0	0	0	0	0	36
22	0	0	5	5	9	2	2	0	0	0	0	0	23
23	0	0	4	8	3	0	1	0	0	0	0	0	16
24	0	1	1	8	9	2	0	0	0	0	0	0	21

7-19	0	2	148	514	319	52	9	1	0	0	0	0	1045
6-22	0	3	170	567	363	69	13	1	0	0	0	0	1186
6-24	0	4	175	583	375	71	14	1	0	0	0	0	1223
0-24	0	4	180	592	387	75	15	2	0	0	0	0	1255

Direction : SOUTHBOUND

Saturday 15/12/2018	VEHICLE SPEED (MPH)												TOTAL
Hr Ending	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
1	0	0	0	5	4	3	2	0	1	0	0	0	15
2	0	0	0	2	2	5	0	0	0	0	0	0	9
3	0	0	0	2	0	1	0	0	0	0	0	0	3
4	0	0	0	3	0	2	0	0	0	0	0	0	5
5	0	0	0	2	0	1	0	0	0	0	0	0	3
6	0	0	0	1	6	7	1	0	0	0	0	0	15
7	0	0	0	4	5	8	1	1	0	0	0	0	19
8	0	0	1	6	10	7	0	0	0	0	0	0	24
9	0	0	4	15	26	12	0	0	0	0	0	0	57
10	0	0	3	19	46	10	1	0	0	0	0	0	79
11	0	0	5	30	45	16	3	0	0	0	0	0	99
12	0	0	14	39	52	14	2	0	0	0	0	0	121
13	0	0	2	37	49	18	4	0	0	0	0	0	110
14	0	0	4	48	37	15	3	1	0	0	0	0	108
15	0	0	9	44	39	15	1	0	0	0	0	0	108
16	0	0	10	40	36	15	3	0	1	0	0	0	105
17	0	0	2	34	42	20	0	0	0	0	0	0	98
18	0	1	0	19	41	26	4	1	2	0	0	0	94
19	0	1	6	16	41	6	2	0	1	0	0	0	73
20	0	0	1	8	30	14	3	2	0	0	0	0	58
21	0	0	2	8	19	8	1	0	0	0	0	0	38
22	0	0	0	7	13	3	2	0	0	0	0	0	25
23	0	0	1	5	11	6	0	1	0	0	0	0	24
24	0	0	0	4	4	10	2	1	0	0	0	0	21

7-19	0	2	60	347	464	174	23	2	4	0	0	0	1076
6-22	0	2	63	374	531	207	30	5	4	0	0	0	1216
6-24	0	2	64	383	546	223	32	7	4	0	0	0	1261
0-24	0	2	64	398	558	242	35	7	5	0	0	0	1311

Automatic Classified Counts

LOCATION: CHIRK

Direction : NORTHBOUND

Sunday 16/12/2018	VEHICLE CLASSIFICATION													TOTAL
Hr Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	
1	11	1	0	0	0	0	0	0	0	0	0	0	0	12
2	6	2	0	0	0	0	0	0	0	0	0	0	0	8
3	7	2	0	0	0	0	0	0	0	0	0	0	0	9
4	2	0	0	0	0	0	0	0	0	0	0	0	0	2
5	1	0	0	0	0	0	0	0	0	0	0	0	0	1
6	3	0	0	0	0	0	0	0	0	0	0	0	0	3
7	11	0	0	0	0	0	0	0	0	0	0	0	0	11
8	6	2	0	0	0	0	0	0	0	0	0	0	0	8
9	11	1	0	0	0	0	0	0	0	0	0	2	0	14
10	39	4	0	0	0	0	0	0	0	0	0	1	0	44
11	80	11	0	0	0	0	0	0	0	0	0	1	0	92
12	103	10	0	0	0	0	0	0	0	0	0	1	0	114
13	108	5	0	0	0	0	0	0	0	0	0	1	0	114
14	138	8	0	0	0	0	0	0	0	0	0	1	0	147
15	110	7	0	0	1	0	0	0	0	0	0	1	0	119
16	100	6	0	0	0	0	0	0	0	0	0	1	0	107
17	83	3	0	0	0	0	0	0	0	0	0	0	0	86
18	37	5	0	0	0	0	0	0	0	0	0	0	0	42
19	50	7	0	0	0	0	0	0	0	0	0	0	0	57
20	35	5	0	0	0	0	0	0	0	0	0	0	0	40
21	31	0	0	0	0	0	0	0	0	0	0	0	0	31
22	20	1	0	0	0	0	0	0	0	0	0	0	0	21
23	15	0	0	0	0	0	0	0	0	0	0	0	0	15
24	4	2	0	0	0	0	0	0	0	0	0	0	0	6

7-19	865	69	0	0	1	0	0	0	0	0	0	9	0	944
6-22	962	75	0	0	1	0	0	0	0	0	0	9	0	1047
6-24	981	77	0	0	1	0	0	0	0	0	0	9	0	1068
0-24	1011	82	0	0	1	0	0	0	0	0	0	9	0	1103

Direction : SOUTHBOUND

Sunday 16/12/2018	VEHICLE CLASSIFICATION													TOTAL
Hr Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	
1	12	3	0	0	0	0	0	0	0	0	0	0	0	15
2	6	3	0	0	0	0	0	0	0	0	0	0	0	9
3	6	2	0	0	0	0	0	0	0	0	0	0	0	8
4	2	0	0	0	0	0	0	0	0	0	0	0	0	2
5	4	1	0	0	0	0	0	0	0	0	0	0	0	5
6	11	1	0	0	0	0	0	0	0	0	0	0	0	12
7	5	2	0	0	0	0	0	0	0	0	0	0	0	7
8	9	3	0	0	0	0	0	0	0	0	0	0	0	12
9	19	3	0	0	0	0	0	0	0	0	0	1	0	23
10	43	9	0	0	0	0	0	0	0	0	0	0	0	52
11	63	5	0	0	0	0	0	0	0	0	0	2	0	70
12	90	7	0	0	0	0	0	0	0	0	0	0	0	97
13	137	14	0	0	0	0	0	0	0	0	0	1	0	152
14	198	19	0	0	0	0	0	0	0	0	0	2	0	219
15	117	4	0	0	0	0	0	0	0	0	0	0	0	121
16	99	10	0	0	1	0	0	0	1	0	0	1	0	112
17	92	7	0	0	0	0	0	0	0	0	0	1	0	100
18	62	6	0	0	0	0	0	0	0	0	0	1	0	69
19	39	0	0	0	0	0	0	0	0	0	0	0	0	39
20	38	4	0	0	0	0	0	0	0	0	0	0	0	42
21	30	3	0	0	0	0	0	0	0	0	0	0	0	33
22	15	0	0	0	0	0	0	0	0	0	0	0	0	15
23	12	0	0	0	1	0	0	0	0	0	0	0	0	13
24	4	0	0	0	0	0	0	0	0	0	0	0	0	4

7-19	968	87	0	0	1	0	0	0	1	0	0	9	0	1066
6-22	1056	96	0	0	1	0	0	0	1	0	0	9	0	1163
6-24	1072	96	0	0	2	0	0	0	1	0	0	9	0	1180
0-24	1113	106	0	0	2	0	0	0	1	0	0	9	0	1231

Automatic Classified Counts

LOCATION: CHIRK

Direction : NORTHBOUND

Sunday 16/12/2018	VEHICLE SPEED (MPH)												TOTAL
Hr Ending	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
1	0	0	1	6	4	0	1	0	0	0	0	0	12
2	0	0	1	1	4	2	0	0	0	0	0	0	8
3	0	0	0	3	1	2	3	0	0	0	0	0	9
4	0	0	0	1	1	0	0	0	0	0	0	0	2
5	0	0	0	0	0	1	0	0	0	0	0	0	1
6	0	0	1	0	2	0	0	0	0	0	0	0	3
7	0	1	0	3	4	2	1	0	0	0	0	0	11
8	0	0	1	3	4	0	0	0	0	0	0	0	8
9	0	0	0	7	6	1	0	0	0	0	0	0	14
10	0	0	5	19	18	2	0	0	0	0	0	0	44
11	0	1	4	36	45	4	2	0	0	0	0	0	92
12	0	0	6	53	48	6	1	0	0	0	0	0	114
13	0	0	7	48	43	15	1	0	0	0	0	0	114
14	0	0	8	84	43	11	1	0	0	0	0	0	147
15	0	0	10	57	40	11	1	0	0	0	0	0	119
16	0	0	19	46	30	10	2	0	0	0	0	0	107
17	0	0	12	37	28	8	1	0	0	0	0	0	86
18	0	1	6	15	14	6	0	0	0	0	0	0	42
19	0	0	4	22	26	4	1	0	0	0	0	0	57
20	0	0	8	18	9	5	0	0	0	0	0	0	40
21	0	0	2	15	10	3	0	0	1	0	0	0	31
22	0	0	3	5	11	2	0	0	0	0	0	0	21
23	0	0	2	6	5	1	1	0	0	0	0	0	15
24	0	0	1	2	2	1	0	0	0	0	0	0	6

7-19	0	2	82	427	345	78	10	0	0	0	0	0	944
6-22	0	3	95	468	379	90	11	0	1	0	0	0	1047
6-24	0	3	98	476	386	92	12	0	1	0	0	0	1068
0-24	0	3	101	487	398	97	16	0	1	0	0	0	1103

Direction : SOUTHBOUND

Sunday 16/12/2018	VEHICLE SPEED (MPH)												TOTAL
Hr Ending	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
1	0	0	0	3	6	5	1	0	0	0	0	0	15
2	0	0	0	2	3	3	0	1	0	0	0	0	9
3	0	0	1	1	4	1	0	1	0	0	0	0	8
4	0	0	0	1	1	0	0	0	0	0	0	0	2
5	0	0	0	2	2	1	0	0	0	0	0	0	5
6	0	0	0	0	3	8	1	0	0	0	0	0	12
7	0	0	0	1	0	4	2	0	0	0	0	0	7
8	0	0	1	2	5	4	0	0	0	0	0	0	12
9	0	1	3	7	9	2	1	0	0	0	0	0	23
10	0	0	1	10	25	13	2	0	1	0	0	0	52
11	0	1	2	19	32	13	3	0	0	0	0	0	70
12	0	0	1	24	49	17	5	1	0	0	0	0	97
13	0	0	10	43	56	31	11	1	0	0	0	0	152
14	0	0	25	50	105	35	2	2	0	0	0	0	219
15	0	0	7	40	51	18	5	0	0	0	0	0	121
16	0	0	4	20	56	28	4	0	0	0	0	0	112
17	0	0	4	29	49	14	4	0	0	0	0	0	100
18	0	0	1	13	24	24	7	0	0	0	0	0	69
19	0	0	2	9	17	7	1	3	0	0	0	0	39
20	0	0	1	10	17	11	3	0	0	0	0	0	42
21	0	0	0	6	16	9	1	0	1	0	0	0	33
22	0	0	0	3	7	4	1	0	0	0	0	0	15
23	0	0	0	2	6	2	3	0	0	0	0	0	13
24	0	0	0	3	1	0	0	0	0	0	0	0	4

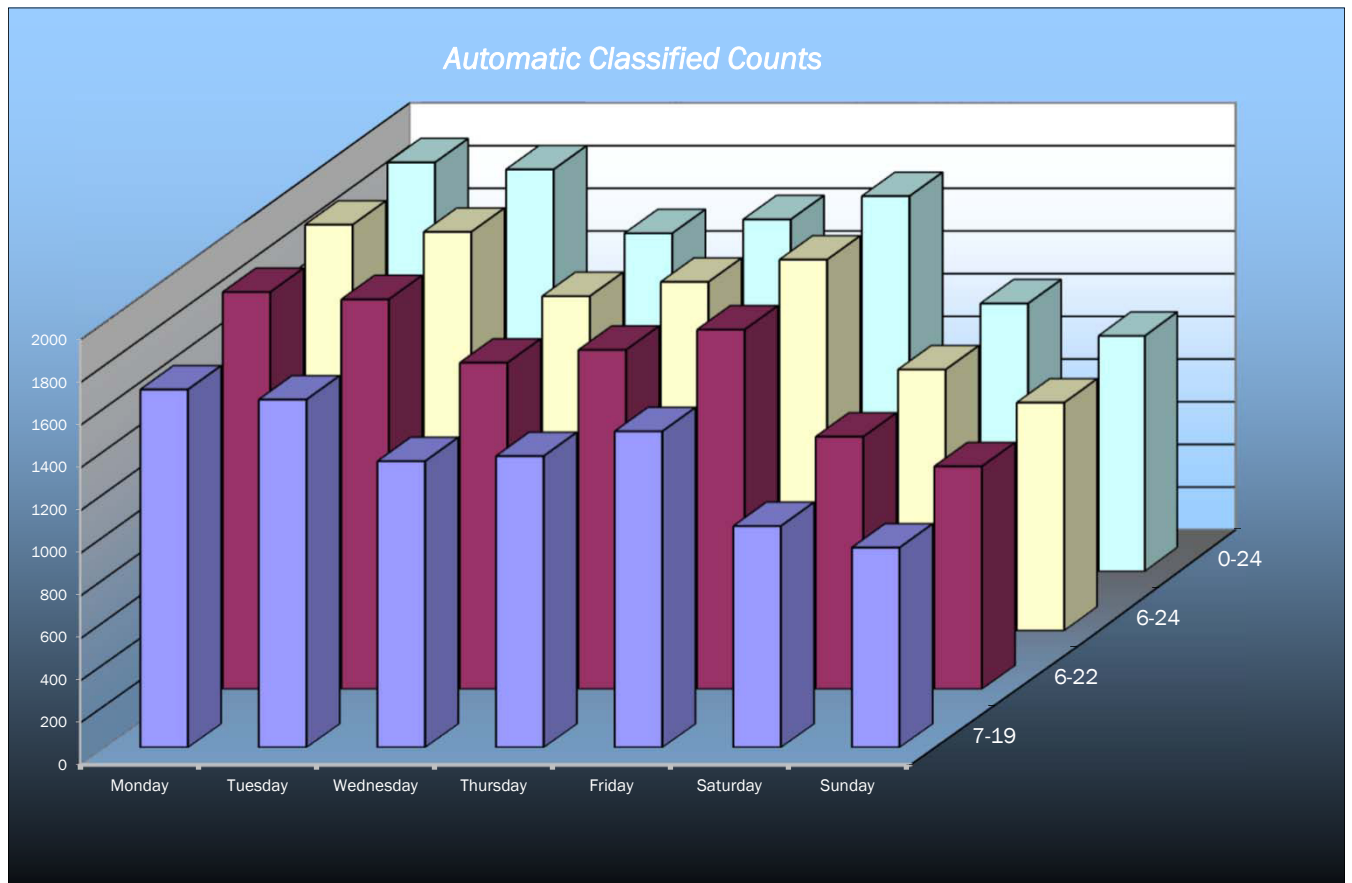
7-19	0	2	61	266	478	206	45	7	1	0	0	0	1066
6-22	0	2	62	286	518	234	52	7	2	0	0	0	1163
6-24	0	2	62	291	525	236	55	7	2	0	0	0	1180
0-24	0	2	63	300	544	254	57	9	2	0	0	0	1231

Automatic Classified Counts

LOCATION: CHIRK

Direction : NORTHBOUND

VEHICLE FLOWS									
Hr Ending	Monday 10-Dec-18	Tuesday 11-Dec-18	Wednesday 12-Dec-18	Thursday 13-Dec-18	Friday 14-Dec-18	Saturday 15-Dec-18	Sunday 16-Dec-18	WEEKDAY AVERAGE	WEEK AVERAGE
1	4	5	3	4	3	15	12	4	7
2	2	1	3	0	3	8	8	2	4
3	1	0	2	2	4	4	9	2	3
4	2	1	2	1	0	2	2	1	1
5	0	1	0	0	2	1	1	1	1
6	5	7	7	8	8	2	3	7	6
7	27	34	31	35	30	21	11	31	27
8	65	75	88	80	64	24	8	74	58
9	141	139	134	121	113	43	14	130	101
10	93	97	80	98	98	80	44	93	84
11	130	138	88	88	105	93	92	110	105
12	152	146	89	92	118	105	114	119	117
13	161	144	112	96	124	126	114	127	125
14	160	142	122	114	114	121	147	130	131
15	167	163	115	124	120	119	119	138	132
16	194	179	164	151	180	100	107	174	154
17	174	137	126	133	152	100	86	144	130
18	151	174	146	160	174	70	42	161	131
19	97	104	85	116	127	64	57	106	93
20	67	85	73	86	85	61	40	79	71
21	54	42	46	63	44	36	31	50	45
22	31	31	34	36	40	23	21	34	31
23	28	31	29	29	33	16	15	30	26
24	10	7	5	12	17	21	6	10	11
7-19	1685	1638	1349	1373	1489	1045	944	1507	1360
6-22	1864	1830	1533	1593	1688	1186	1047	1702	1534
6-24	1902	1868	1567	1634	1738	1223	1068	1742	1571
0-24	1916	1883	1584	1649	1758	1255	1103	1758	1593

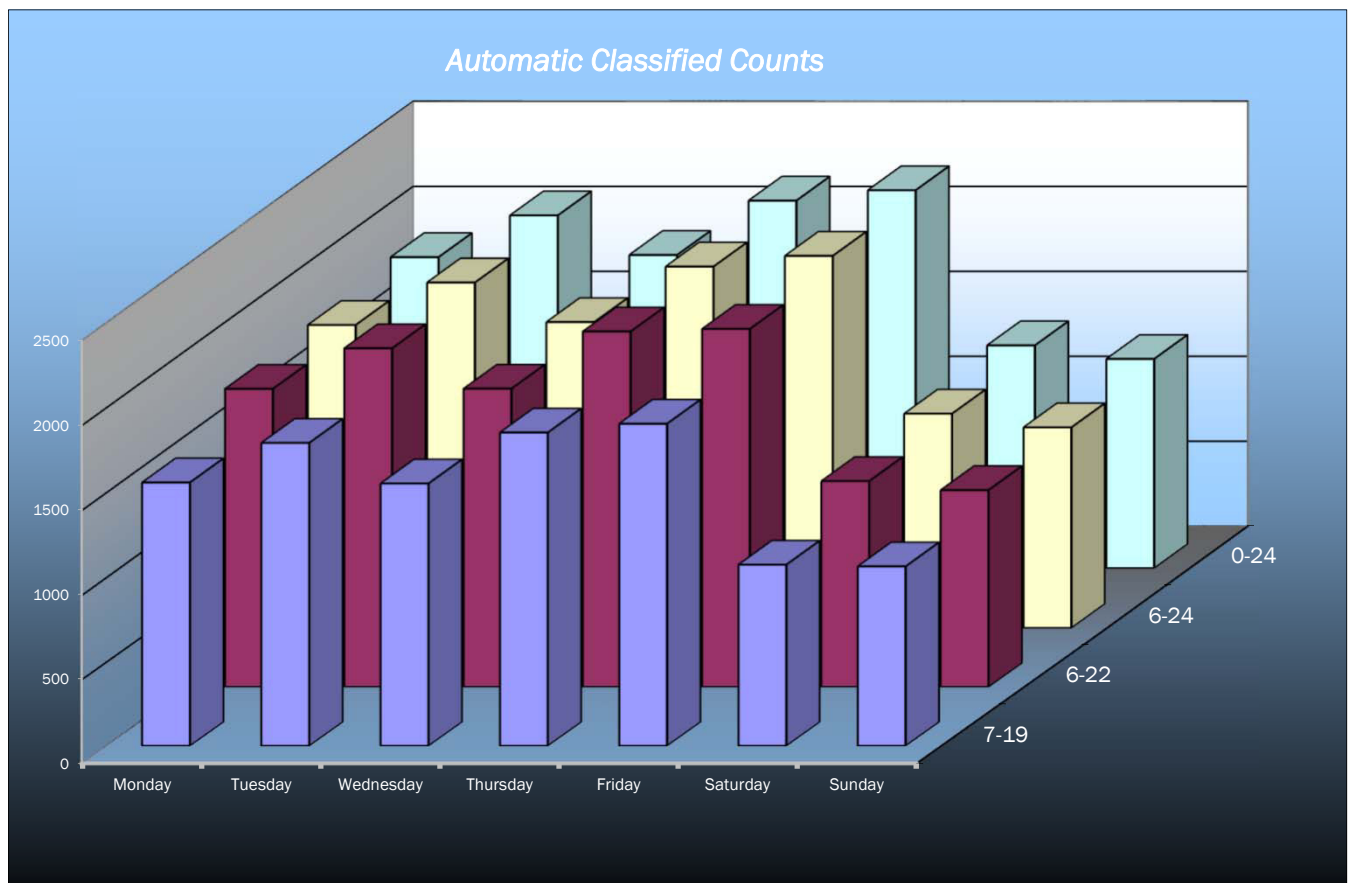


Automatic Classified Counts

LOCATION: CHIRK

Direction : SOUTHBOUND

SOUTHBOUND									
Hr Ending	Monday 10-Dec-18	Tuesday 11-Dec-18	Wednesday 12-Dec-18	Thursday 13-Dec-18	Friday 14-Dec-18	Saturday 15-Dec-18	Sunday 16-Dec-18	WEEKDAY AVERAGE	WEEK AVERAGE
1	7	7	3	1	5	15	15	5	8
2	1	0	2	1	0	9	9	1	3
3	3	0	2	1	2	3	8	2	3
4	2	1	3	1	1	5	2	2	2
5	3	4	3	8	4	3	5	4	4
6	31	31	30	24	22	15	12	28	24
7	53	49	50	47	42	19	7	48	38
8	97	103	81	86	76	24	12	89	68
9	120	112	123	118	104	57	23	115	94
10	84	113	106	108	98	79	52	102	91
11	115	125	94	110	115	99	70	112	104
12	128	123	126	114	126	121	97	123	119
13	100	117	109	115	147	110	152	118	121
14	119	121	109	124	128	108	219	120	133
15	134	148	132	126	167	108	121	141	134
16	152	181	153	181	259	105	112	185	163
17	191	208	179	331	364	98	100	255	210
18	194	310	218	309	191	94	69	244	198
19	126	132	124	132	131	73	39	129	108
20	70	80	83	89	80	58	42	80	72
21	37	37	41	66	49	38	33	46	43
22	39	39	32	41	35	25	15	37	32
23	17	22	30	20	60	24	13	30	27
24	7	13	10	10	18	21	4	12	12
7-19	1560	1793	1554	1854	1906	1076	1066	1733	1544
6-22	1759	1998	1760	2097	2112	1216	1163	1945	1729
6-24	1783	2033	1800	2127	2190	1261	1180	1987	1768
0-24	1830	2076	1843	2163	2224	1311	1231	2027	1811



Automatic Classified Counts

LOCATION: CHIRK

Direction : NORTHBOUND

AVERAGE SPEEDS							
Hr Ending	Monday 10-Dec-18	Tuesday 11-Dec-18	Wednesday 12-Dec-18	Thursday 13-Dec-18	Friday 14-Dec-18	Saturday 15-Dec-18	Sunday 16-Dec-18
1	38.0	37.0	39.7	40.5	36.3	36.7	35.3
2	29.3	38.0	36.3	-	34.7	38.0	37.1
3	33.0	-	38.0	33.0	38.0	33.6	40.8
4	38.0	33.0	40.5	33.0	-	35.5	35.5
5	-	38.0	-	-	45.5	25.5	43.0
6	37.0	34.4	38.0	38.0	36.1	34.3	33.8
7	37.2	36.0	37.9	35.8	34.6	35.4	36.4
8	35.5	34.0	35.8	34.1	34.4	33.1	34.6
9	34.7	36.0	35.3	36.2	35.3	33.2	35.9
10	34.5	35.5	35.4	34.1	34.0	34.6	34.6
11	35.1	34.6	34.6	34.6	33.8	34.4	35.7
12	34.2	35.0	33.4	34.5	33.8	34.4	35.4
13	34.3	34.7	34.1	34.8	34.5	34.9	35.9
14	34.1	35.3	33.9	32.8	34.6	34.0	34.9
15	34.8	33.8	35.0	35.0	34.8	34.4	35.1
16	34.6	35.0	34.5	34.4	34.7	34.1	34.3
17	33.1	33.8	34.2	34.3	34.2	32.6	34.7
18	34.7	35.0	35.3	33.9	34.6	33.3	34.6
19	34.8	35.6	33.1	34.3	33.5	34.6	35.7
20	36.8	34.9	35.5	34.2	35.4	35.3	33.9
21	34.9	35.4	36.6	35.0	34.1	33.5	35.9
22	35.1	34.0	34.5	36.8	34.5	35.5	35.5
23	36.8	34.5	38.3	36.5	36.3	33.0	35.3
24	32.8	38.0	35.0	35.3	35.4	34.9	35.1

10-12	34.7	34.8	34.0	34.5	33.8	34.4	35.5
14-16	34.7	34.4	34.7	34.7	34.8	34.2	34.7
0-24	34.9	35.3	35.9	35.0	35.3	34.1	35.8

85TH PERCENTILE							
Hr Ending	Monday 10-Dec-18	Tuesday 11-Dec-18	Wednesday 12-Dec-18	Thursday 13-Dec-18	Friday 14-Dec-18	Saturday 15-Dec-18	Sunday 16-Dec-18
1	42.1	41.2	45.4	43.4	39.2	44.0	40.7
2	34.6	-	42.1	-	37.6	41.8	42.7
3	-	-	45.1	33.0	45.1	39.5	47.4
4	38.0	-	44.0	-	-	39.0	39.0
5	-	-	-	-	49.0	-	-
6	41.2	41.2	42.1	40.7	38.7	46.6	41.1
7	42.6	40.6	42.2	40.5	38.9	41.4	44.8
8	40.4	39.5	41.5	39.0	39.3	39.7	39.0
9	39.8	40.5	40.0	39.9	39.7	38.8	39.1
10	38.6	40.0	39.7	39.6	38.2	39.2	39.0
11	39.8	39.2	39.2	38.7	38.5	38.2	40.2
12	39.1	39.3	38.1	39.2	38.3	38.8	39.3
13	39.4	40.9	38.7	39.2	39.7	39.7	40.3
14	38.8	40.4	38.6	40.1	39.3	38.8	38.9
15	39.9	39.1	39.6	40.1	39.2	38.2	39.6
16	39.1	40.2	39.4	40.2	39.1	38.6	39.7
17	38.1	38.4	39.4	39.7	39.3	37.3	39.7
18	38.8	39.4	40.3	38.8	38.7	38.4	40.6
19	38.7	40.6	38.5	40.1	38.4	40.2	40.1
20	42.0	40.6	40.7	39.1	40.6	41.1	39.3
21	40.4	40.2	42.7	41.1	39.2	38.5	41.8
22	40.8	39.2	40.3	42.2	41.0	42.3	40.6
23	42.0	40.7	44.1	43.5	41.1	38.9	41.2
24	39.7	42.1	37.7	39.7	42.4	40.9	41.1

10-12	39.5	39.2	38.7	38.9	38.4	38.5	39.7
14-16	39.5	39.6	39.5	40.1	39.1	38.4	39.6
0-24	39.7	40.2	40.8	39.9	40.0	40.0	40.7

7 DAY AVERAGE SPEED	35.2
7 DAY AVERAGE 85th PERCENTILE	40.2

Automatic Classified Counts

LOCATION: CHIRK

Direction : SOUTHBOUND

AVERAGE SPEEDS							
Hr Ending	Monday 10-Dec-18	Tuesday 11-Dec-18	Wednesday 12-Dec-18	Thursday 13-Dec-18	Friday 14-Dec-18	Saturday 15-Dec-18	Sunday 16-Dec-18
1	41.6	40.1	36.3	43.0	40.0	40.0	39.3
2	38.0	-	38.0	43.0	-	39.7	40.2
3	33.0	-	40.5	5.5	45.5	36.3	38.3
4	40.5	38.0	44.7	43.0	48.0	37.0	35.5
5	39.7	40.5	39.7	41.1	38.0	36.3	37.0
6	39.9	39.3	41.3	40.0	40.2	40.7	42.2
7	39.4	40.8	40.6	40.8	39.7	40.4	43.0
8	38.8	39.0	38.1	38.8	37.9	37.7	37.8
9	37.7	35.8	36.6	38.5	37.6	36.9	34.7
10	37.1	35.9	36.4	37.5	37.1	37.1	38.8
11	36.3	37.2	36.2	36.7	35.1	37.0	37.3
12	37.0	37.8	36.7	36.2	35.2	35.7	38.2
13	37.8	37.4	36.3	37.9	35.3	37.3	37.6
14	37.6	37.2	36.5	36.0	37.2	36.4	36.5
15	37.5	37.1	36.0	37.5	37.1	35.7	36.8
16	37.4	36.1	36.9	37.0	36.9	36.1	38.3
17	37.7	37.7	38.1	36.2	36.2	37.0	37.2
18	38.6	38.5	37.4	37.7	36.9	39.1	39.6
19	37.1	37.5	37.7	38.1	37.1	36.5	38.5
20	39.5	38.2	38.3	38.6	38.3	39.3	38.5
21	39.9	36.4	39.6	39.7	37.3	37.6	39.4
22	39.1	39.5	40.6	37.9	37.6	38.0	39.0
23	39.3	39.6	39.0	39.1	37.9	38.3	40.3
24	39.4	41.8	38.3	41.5	38.4	41.1	34.3
10-12	36.6	37.5	36.5	36.4	35.1	36.3	37.8
14-16	37.4	36.6	36.4	37.3	37.0	35.9	37.5
0-24	38.3	38.2	38.3	37.6	38.3	37.8	38.3

85TH PERCENTILE							
Hr Ending	Monday 10-Dec-18	Tuesday 11-Dec-18	Wednesday 12-Dec-18	Thursday 13-Dec-18	Friday 14-Dec-18	Saturday 15-Dec-18	Sunday 16-Dec-18
1	48.5	46.5	39.2	-	42.7	47.3	43.8
2	-	-	45.1	-	-	44.0	46.4
3	46.0	-	44.0	-	49.0	42.1	46.2
4	44.0	-	47.6	-	-	42.5	39.0
5	42.6	43.4	42.6	46.4	42.1	42.1	41.2
6	45.2	42.9	48.2	47.8	45.7	44.4	45.1
7	44.0	46.0	45.7	45.3	43.7	45.7	48.0
8	44.6	45.7	44.4	44.5	43.5	42.3	43.1
9	43.9	41.8	42.1	43.6	42.9	41.5	41.7
10	42.8	41.5	42.3	42.4	41.8	41.0	43.9
11	41.5	43.2	41.3	41.8	40.1	41.6	42.6
12	42.4	44.0	40.6	41.1	40.1	40.7	42.6
13	42.4	43.3	41.8	43.1	40.7	41.6	43.2
14	42.9	42.5	41.7	41.4	42.1	41.2	41.8
15	42.1	42.3	41.2	42.4	41.6	40.5	41.7
16	42.3	41.9	41.5	41.9	42.1	41.7	42.7
17	42.2	42.3	43.1	41.0	40.6	41.1	41.7
18	43.4	43.7	42.1	42.7	42.3	44.8	44.5
19	42.3	42.4	43.6	44.0	42.1	42.3	44.7
20	44.9	44.0	43.9	43.9	42.6	44.2	43.4
21	44.0	41.5	44.5	45.8	44.6	42.3	44.4
22	45.1	44.9	47.9	42.4	42.9	42.3	43.3
23	49.1	44.6	44.0	45.0	43.1	43.6	45.6
24	46.3	46.0	45.2	48.6	44.6	46.5	36.8
10-12	41.9	43.6	40.9	41.5	40.1	41.2	42.6
14-16	42.2	42.1	41.4	42.1	41.8	41.1	42.2
0-24	44.0	43.5	43.5	43.8	42.8	42.8	43.2

7 DAY AVERAGE SPEED	38.1
7 DAY AVERAGE 85th PERCENTILE	43.4

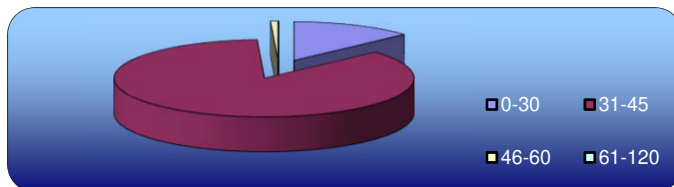
Automatic Classified Counts

LOCATION: CHIRK

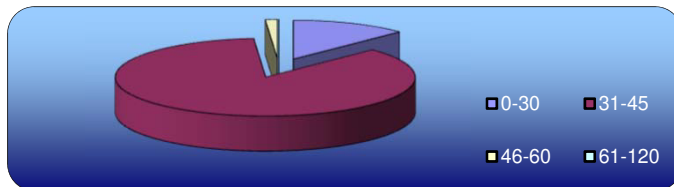
Direction : NORTHBOUND

SPEED SUMMARY							
SPEED (MPH)	Monday 10-Dec-18	Tuesday 11-Dec-18	Wednesday 12-Dec-18	Thursday 13-Dec-18	Friday 14-Dec-18	Saturday 15-Dec-18	Sunday 16-Dec-18
0-30	253	237	210	244	230	184	104
31-45	1648	1622	1354	1382	1513	1054	982
46-60	15	24	20	23	15	17	17
61-120	0	0	0	0	0	0	0
TOTAL	1916	1883	1584	1649	1758	1255	1103

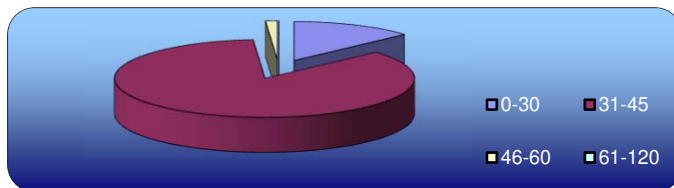
Monday
10-Dec-18



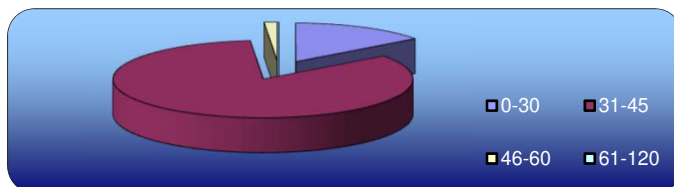
Tuesday
11-Dec-18



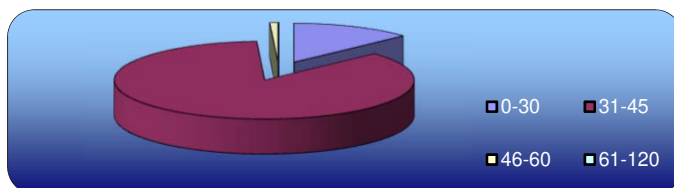
Wednesday
12-Dec-18



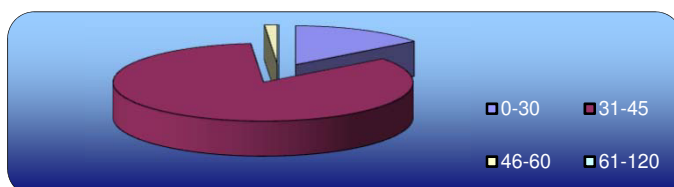
Thursday
13-Dec-18



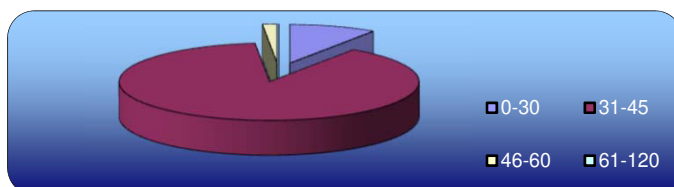
Friday
14-Dec-18



Saturday
15-Dec-18



Sunday
16-Dec-18



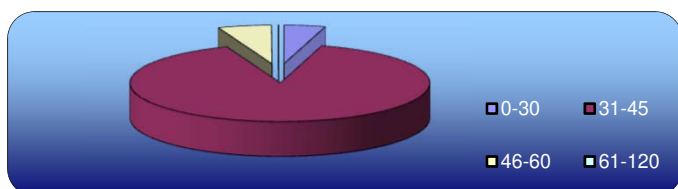
Automatic Classified Counts

LOCATION: CHIRK

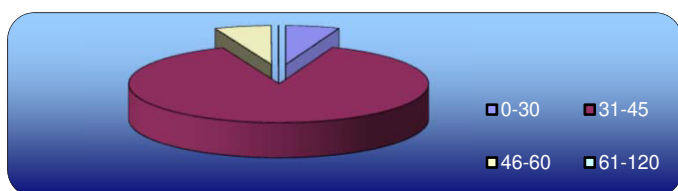
Direction : SOUTHBOUND

SPEED SUMMARY							
SPEED (MPH)	Monday 10-Dec-18	Tuesday 11-Dec-18	Wednesday 12-Dec-18	Thursday 13-Dec-18	Friday 14-Dec-18	Saturday 15-Dec-18	Sunday 16-Dec-18
0-30	81	120	108	106	141	66	65
31-45	1643	1829	1633	1927	2000	1198	1098
46-60	105	126	102	129	83	47	68
61-120	1	1	0	1	0	0	0
TOTAL	1830	2076	1843	2163	2224	1311	1231

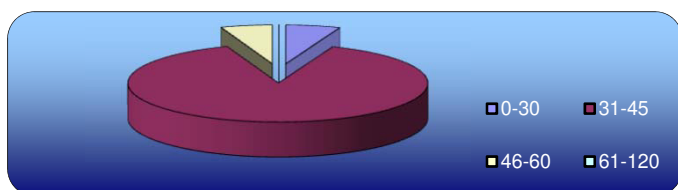
Monday
10-Dec-18



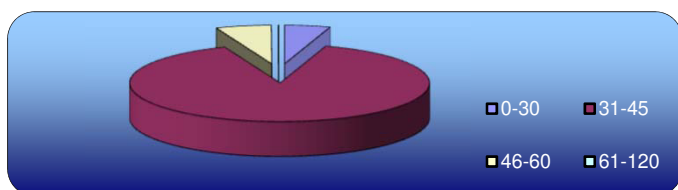
Tuesday
11-Dec-18



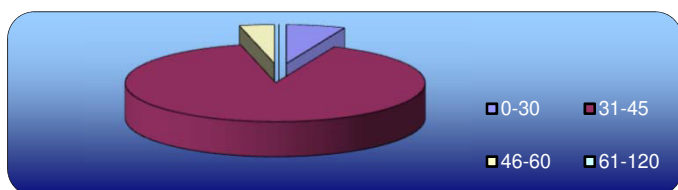
Wednesday
12-Dec-18



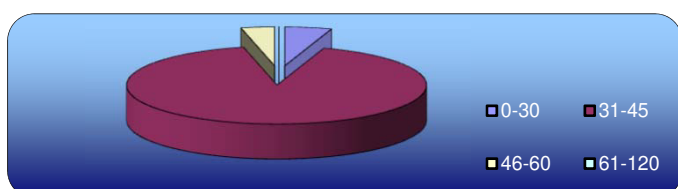
Thursday
13-Dec-18



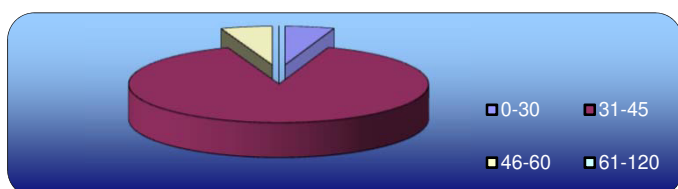
Friday
14-Dec-18



Saturday
15-Dec-18



Sunday
16-Dec-18



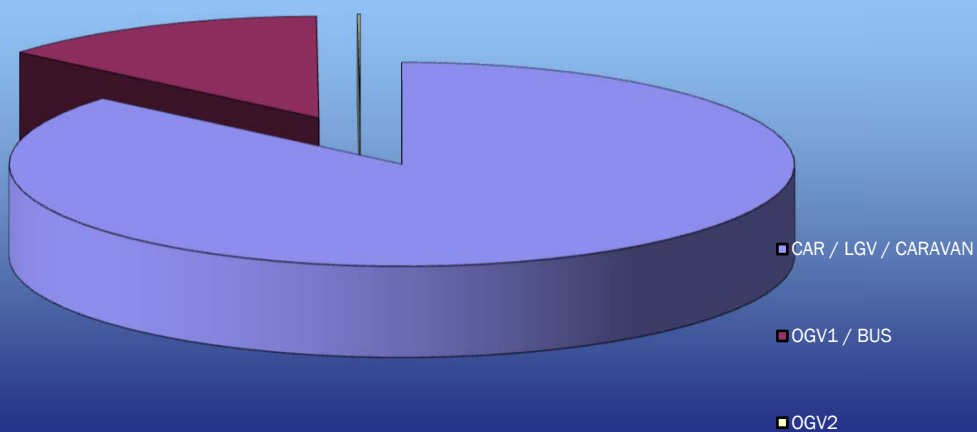
Automatic Classified Counts

LOCATION: CHIRK

Direction : NORTHBOUND

VEHICLE CLASSIFICATION				
	CAR / LGV / CARAVAN	OGV1 / BUS	OGV2	TOTAL
10-Dec-18				
7-19	1443	239	3	1685
6-22	1602	259	3	1864
6-24	1640	259	3	1902
0-24	1652	261	3	1916
11-Dec-18				
7-19	1413	223	2	1638
6-22	1583	245	2	1830
6-24	1620	246	2	1868
0-24	1634	247	2	1883
12-Dec-18				
7-19	1151	196	2	1349
6-22	1317	214	2	1533
6-24	1350	215	2	1567
0-24	1365	217	2	1584
13-Dec-18				
7-19	1130	242	1	1373
6-22	1333	258	2	1593
6-24	1370	262	2	1634
0-24	1383	264	2	1649
14-Dec-18				
7-19	1267	222	0	1489
6-22	1445	243	0	1688
6-24	1495	243	0	1738
0-24	1512	246	0	1758
15-Dec-18				
7-19	938	105	2	1045
6-22	1071	113	2	1186
6-24	1106	115	2	1223
0-24	1134	119	2	1255
16-Dec-18				
7-19	865	79	0	944
6-22	962	85	0	1047
6-24	981	87	0	1068
0-24	1011	92	0	1103
AVERAGE				
7-19	1172	187	1	1360
6-22	1330	202	2	1534
6-24	1366	204	2	1571
0-24	1384	207	2	1593

Total Vehicle Class Distribution



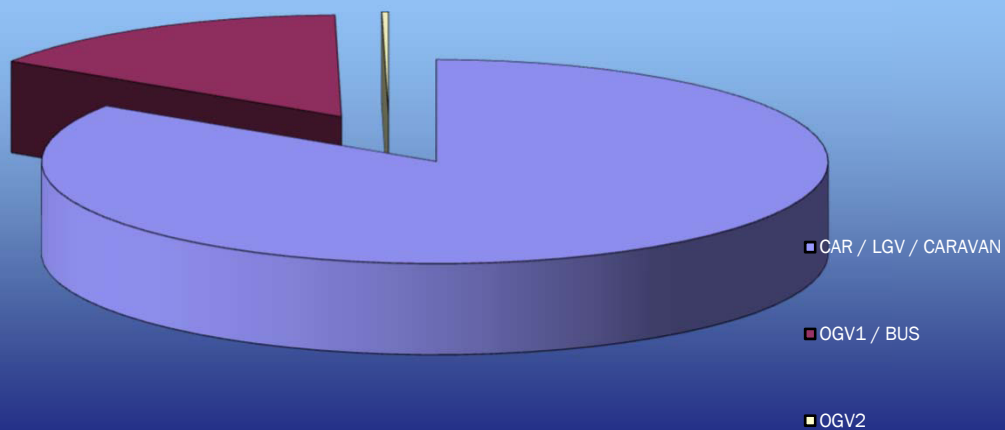
Automatic Classified Counts

LOCATION: CHIRK

Direction : SOUTHBOUND

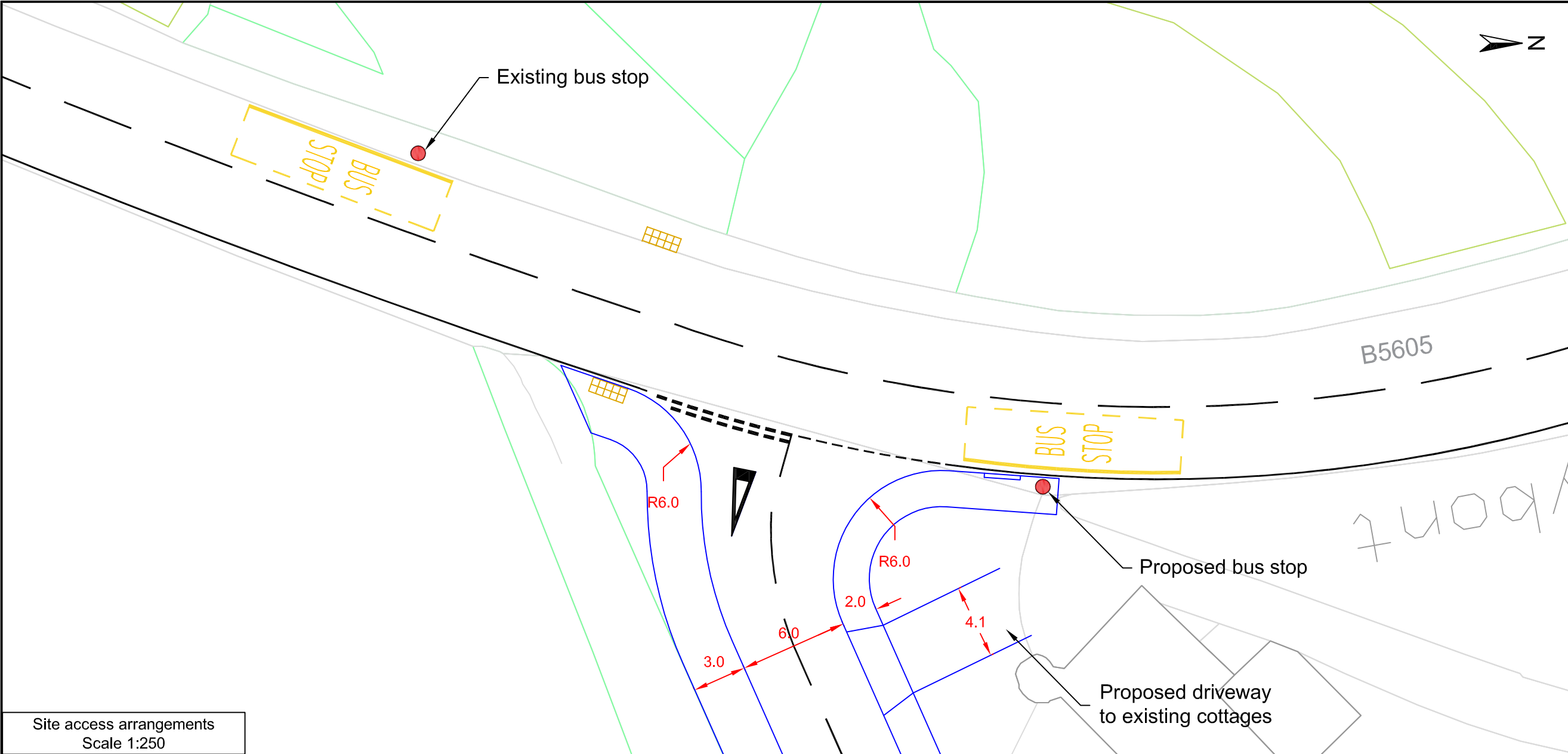
VEHICLE CLASSIFICATION				
	CAR / LGV / CARAVAN	OGV1 / BUS	OGV2	TOTAL
10-Dec-18				
7-19	1283	272	5	1560
6-22	1457	297	5	1759
6-24	1479	299	5	1783
0-24	1519	306	5	1830
11-Dec-18				
7-19	1518	268	7	1793
6-22	1696	295	7	1998
6-24	1728	298	7	2033
0-24	1768	301	7	2076
12-Dec-18				
7-19	1306	244	4	1554
6-22	1484	272	4	1760
6-24	1520	276	4	1800
0-24	1561	278	4	1843
13-Dec-18				
7-19	1513	336	5	1854
6-22	1729	363	5	2097
6-24	1753	369	5	2127
0-24	1787	371	5	2163
14-Dec-18				
7-19	1571	330	5	1906
6-22	1748	358	6	2112
6-24	1821	363	6	2190
0-24	1855	363	6	2224
15-Dec-18				
7-19	941	133	2	1076
6-22	1061	153	2	1216
6-24	1100	159	2	1261
0-24	1145	164	2	1311
16-Dec-18				
7-19	968	97	1	1066
6-22	1056	106	1	1163
6-24	1072	107	1	1180
0-24	1113	117	1	1231
AVERAGE				
7-19	1300	240	4	1544
6-22	1462	263	4	1729
6-24	1496	267	4	1768
0-24	1535	271	4	1811

Total Vehicle Class Distribution

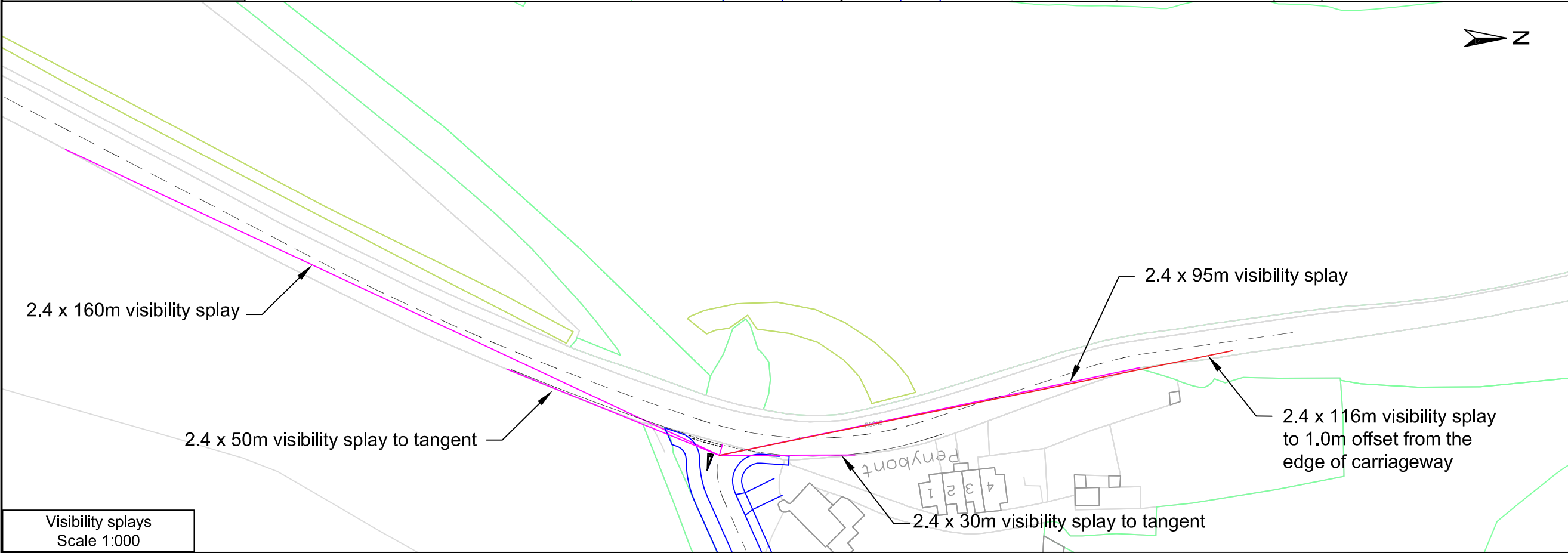


APPENDIX 2

PROPOSED SITE ACCESS ARRANGEMENTS



Site access arrangements
Scale 1:250



Visibility splays
Scale 1:000

Legend

A	18.12.18	Revised layout	MQ	IW	—
Rev.	Date	Amendment	Drawn	Chkd.	Appd.



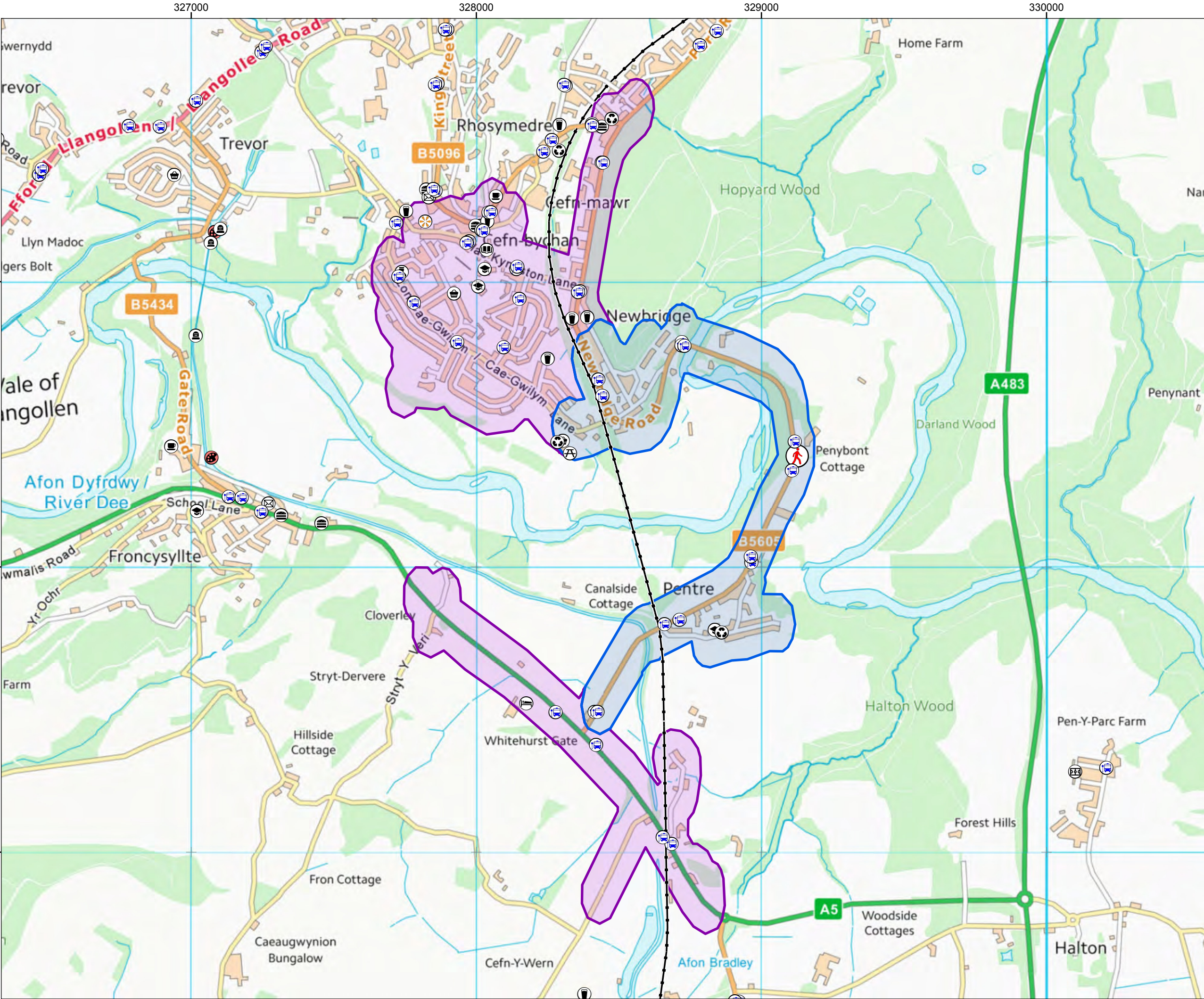
Fourways House,
57 Hilton Street,
Manchester,
M1 2EJ.

Tel: +44 (0) 161 236 2757
Email: communications@rsk.co.uk
Web: www.rsk.co.uk

Client					
DBA Estates					
Project Title					
Pen y Bont Residential Development					
Drawing Title					
Proposed site access arrangements and visibility splays					
Drawn MQ	Date JAN18	Checked IW	Date JAN18	Approved IW	Date JAN18
Scale As shown		Orig Size A3		Dimensions METRES	
Project No. 661712			Drawing File		
Drawing No. 661712-10-01					Rev. A
Scale					

APPENDIX 3

WALKING AND CYCLING ISOCHRONES



Legend:

- Site Location
- Bus Stop Location
- Railway Track
- 15 Minute Walking Isochrone
- 25 Minute Walking Isochrone

Local Amenities:

- Artwork
- Cafe
- Convenience Store
- Educational Facility
- Fast Food
- Hotel
- Library
- Memorial
- Picnic Site
- Playground / Pitch
- Police
- Post Office
- Pub
- Recycling
- Viewpoint



00	14/12/2018	First Draft	DR	IW	IW
Rev	Date	Description	Drm	Chk	App

Pen y Bont



TITLE: Figure 2:
Walking Isochrone Plan

00.250.5

Kilometres

SCALE: 1:12,500 @ A3

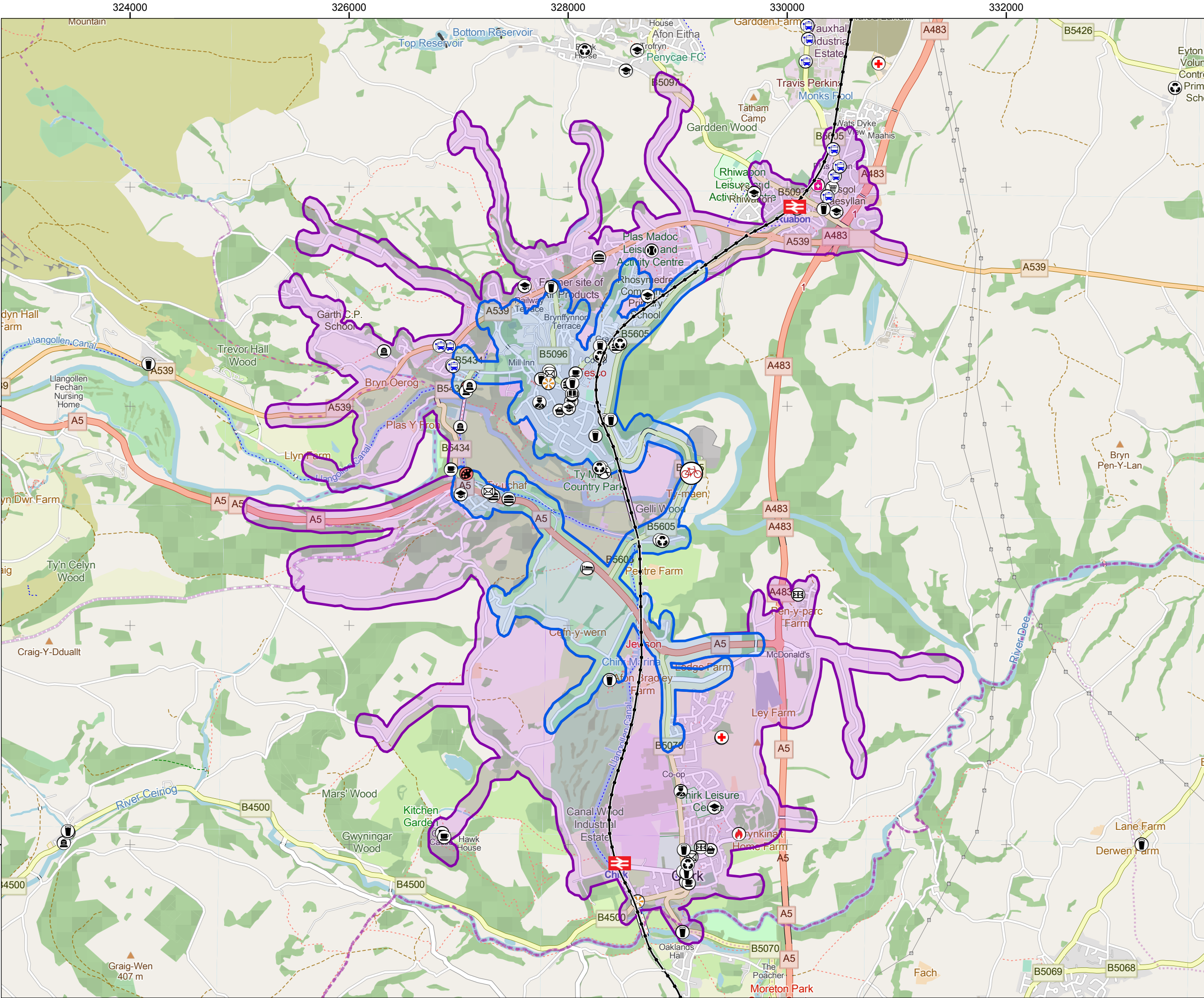
N

W

E

S

REV 00



Legend:

- Site Location
- Bus Stop Location
- Railway Station
- Railway Track
- 15 Minute Cycling Isochrone
- 25 Minute Cycling Isochrone

Local Amenities:

- Artwork
- Cafe
- Chemist / Pharmacy
- Convenience Store
- Educational Facility
- Fast Food
- Fire Station
- Hospital
- Hotel
- Library
- Memorial
- Picnic Site
- Playground / Pitch
- Police
- Post Office
- Pub
- Recycling
- Sport Centre / Sport Shop
- Supermarket
- Viewpoint



00	13/12/2018	First Draft	DR	IW	IW
Rev	Date	Description	Drm	Chk	App

Pen y Bont

RSK

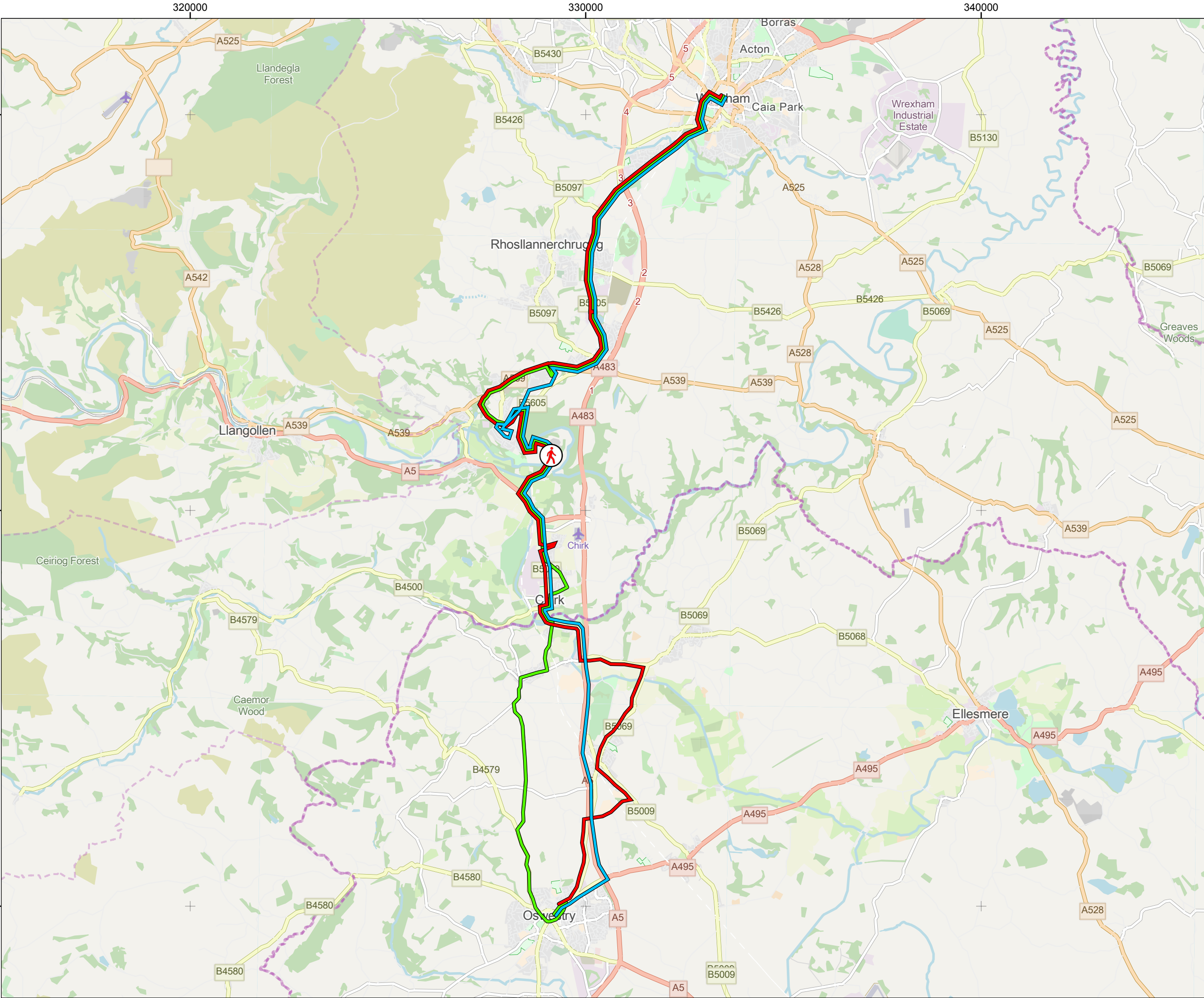
TITLE: Figure 3:
Cycling Isochrone Plan

0 0.5 1
Kilometres
SCALE: 1:32,500 @ A3

REV 00

APPENDIX 4

BUS ROUTE PLAN



Legend:

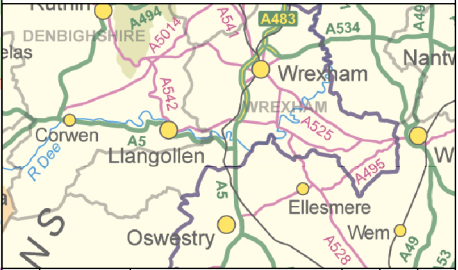
 Site Location

Bus Routes:

 Route 2

 Route 2A

 Route 2C



00	14/12/2018	First Draft	DR	IW	IW
Rev	Date	Description	Drm	Chk	App

Pen y Bont



TITLE: **Figure 4:
Bus Route Plan**



SCALE: 1:90,000 @ A3



REV 00