

Weston Homes plc & Bishop's Stortford Golf Club

Residential Development of Land East of Manor Links (Policy BISH 9, East of Manor Links), Bishop's Stortford Golf

Transport Note 5 – Revised to HCC comments

November 2016



PTP

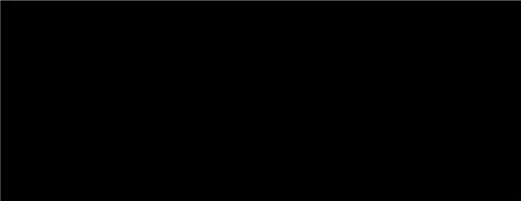
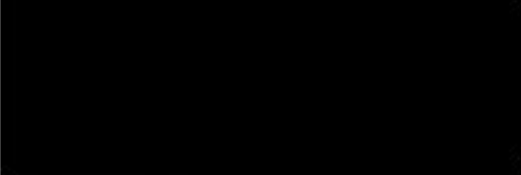
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1 Introduction

PT Planners (PTP) was commissioned by Weston Homes PLC and Bishop's Stortford Golf Club to prepare a transport note to support the case for the development of a parcel of land comprising 6.19 ha, which the above parties were promoting through the emerging East Herts District Plan to be removed from the Green Belt in order to be allocated for housing. Several schemes of different areas and unit numbers were promoted at different stages of the District Plan preparation, but by the preparation of Transport Note 3, the proposal comprised one area for about 50 dwellings and a further area which could accommodate about 100 dwellings as safeguarded land. The two areas previously jointly referred to in the emerging District Plan as BISH 6, are subject to 2 separate Option Agreements between the two parties. Both parties sought the allocation of the Option 1 land (Area 1), which amounts to 2.15 ha, for housing, and the allocation of the Option 2 land (Area 2), as 'white land' safeguarded or reserved for future residential development. These changes in designation were being requested by the parties to be included in the emerging East Herts District Plan. Following submission of Transport Note 3 to HCC Highway Authority for comment, amendments were requested and made (Transport Note 4). However, subsequently, East Herts Council District Planning Executive Panel resolved on 15 September 2016 to approve the Bishop's Stortford chapter of the District Plan for public consultation with only Area 1 proposed for removal from the Green Belt and allocation for about 50 dwellings. Area 2 is proposed to remain Green Belt. This proposal was endorsed by East Herts Full Council at its meeting on the 22 September 2016. The area is now BISH 9. In the event of such allocation and designation, a planning application for approximately 50 residential units would be made on the 2.15 ha Area 1 (scrub land) as soon as the District Plan enables.

1.1 Thus the development proposals for BISH 9 comprise the construction of approximately 50 new dwellings with 119 car parking spaces, with access from Manor Links. The current masterplan, which will be subject to review as part of the pre-application consultation process and subsequently as a live planning application, currently comprises:

- Private, 30 dwellings:
 - 2 No. 1 Bedroom Apartments
 - 1 No. 2 Bedroom Apartments
 - 4 No. 2 Bedroom Bungalows
 - 3 No. 2 Bedroom Houses
 - 4 No. 3 Bedroom Bungalows
 - 6 No. 3 Bedroom Houses

- 4 No. 4 Bedroom Houses
 - 6 No. 5 Bedroom Houses
- Affordable, 20 dwellings:
 - 6 No. 1 Bedroom Apartments
 - 11 No. 2 Bedroom Apartments
 - 1 No. 2 Bedroom Houses
 - 2 No. 3 Bedroom Houses

Background

1.2 This Transport Note was submitted to HCC on 26 April 2016, and a response was received on 24 June 2016, confirming that:

'The applicant has provided a Transport Assessment (TA) 'Technical Note 3' for HCC consideration as part of the pre-application package. This is acceptable as per Roads in Herts but will need to be resubmitted as part of any formal planning application.'

1.3 And that:

'HCC has no objection to the principle of development on the site. However, as detailed above, there are a number of items that will require further information, justification and / or clarification to be provided as part of any planning application'

1.4 Additionally the response stated:

'The applicant will need to provide evidence to support that the proposed new junction access arrangements will be safe and suitable for the proposed development.'

1.5 In response, an updated Transport Note (Revised to HCC comments) addressing the points raised and incorporating illustrative Access Arrangements, was submitted to HCC on 14 July 2016. A response on 20 July 2016 confirmed:

'HCC has no objection to the principle of the development on the site and are satisfied with the additional information provided as part of the revised TN and Memo.'

1.6 However HCC were concerned about the geometry of the proposed site accesses from Manor Links and stated;

'The DM Implementation team does not consider the proposed access arrangements suitable for the proposed development and requests that the width of the carriageway be increased to 5.5m to alleviate any parking and manoeuvre issues at the site accesses. It has also been requested that 6m kerb radii be provided. Therefore, the access arrangements will need to be revised to demonstrate a 5.5m wide carriageway and 6m kerb radii is achievable.'

1.7 Accordingly the northern and southern access roads into the site from Manor Links were both widened, with the junction radii increased to 6 m (within the site and public highway). A drawing, 1010-21195-Rev 05, showing this and 'swept paths' for refuse vehicles turning at both accesses was submitted on 9 August 2016. A response on 12 August confirmed that:

'The access arrangements provided in Drawing 1010-21195-05 are acceptable in principle ...which will need to be secured and approved via a S278 agreement with HCC.'

1.8 This final version of this Transport Note (5) has incorporated the approved additional information, clarification and the approved revised site accesses drawing, (Drawing no. 1010-21195-05). The responses received from HCC are attached in Appendix H.

1.9 Once a detailed scheme for BISH 9 has been designed, following pre-application consultation, a Transport Assessment (TA) will be prepared, based on this Transport Note, to support the specific proposals for which planning permission is to be sought, and the TA will include all further and more detailed information necessary, in accordance with the requirements of the HCC letter detailing its review of Transport Note 3.

1.10 In addition, the statutory Design and Access Statement (DAS) required for all full planning applications (including those that have an impact on the highway, as outlined in Roads in Hertfordshire: Design Guide (3rd Edition)), will include three potential aspects of access:

- i) Why the access points for the development on Manor Links have been chosen;
- ii) how the site has influenced internal road layout, and how this addresses road safety, and how the site enables access for intended residents to public transport provision; and,
- iii) how everyone can move through the place on equal terms regardless of age, disability, ethnicity or social grouping.

1.11 The TA will provide a Policy Review as evidence that the following key policy documents have been considered in the preparation of the scheme forming the full application in respect of, inter alia, issues relating to highways, transportation and sustainability:

- National Planning Policy Framework (NPPF);
- National Planning Practice Guidance;
- Department for Transport, Manual for Streets, 2007
- Roads in Hertfordshire Highway Design Guide (3rd Edition)

- Hertfordshire County Council (HCC) Local Transport Plan 3-2011-2031
- The emerging East Herts District Plan; and,
- The emerging Bishop's Stortford Neighbourhood Plan for All Saints, Central, South and Part of Thorley

1.12 Following this introductory section this assessment is structured as follows:

Chapter 2: Existing site, sets out the existing BISH 9 site information.

Chapter 3: Accessibility and existing conditions, discusses the accessibility of the BISH 9 site for all modes.

- Walking – A qualitative description of the pedestrian environment on the roads surrounding the site and the key walking routes connecting to the surrounding area.
- Cycling – sets out the existing cycling infrastructure running past the site and penetrating the surrounds.
- Buses – Plan showing the bus stops closest to the site and a description of the routes which serve these stops along with a table setting out the routes and their frequencies
- Rail – A description of the services offered from the rail stations nearest to the site along with route and frequency information
- Roads surrounding the site – A functional description is provided of the roads surrounding the site and the roads connecting to the classified road network.
- Accident analysis – The accidents which occurred on the roads immediately surrounding the site, and for the routes to the classified road network are assessed to establish if there are any underlying safety issues relating to the current highway alignment.

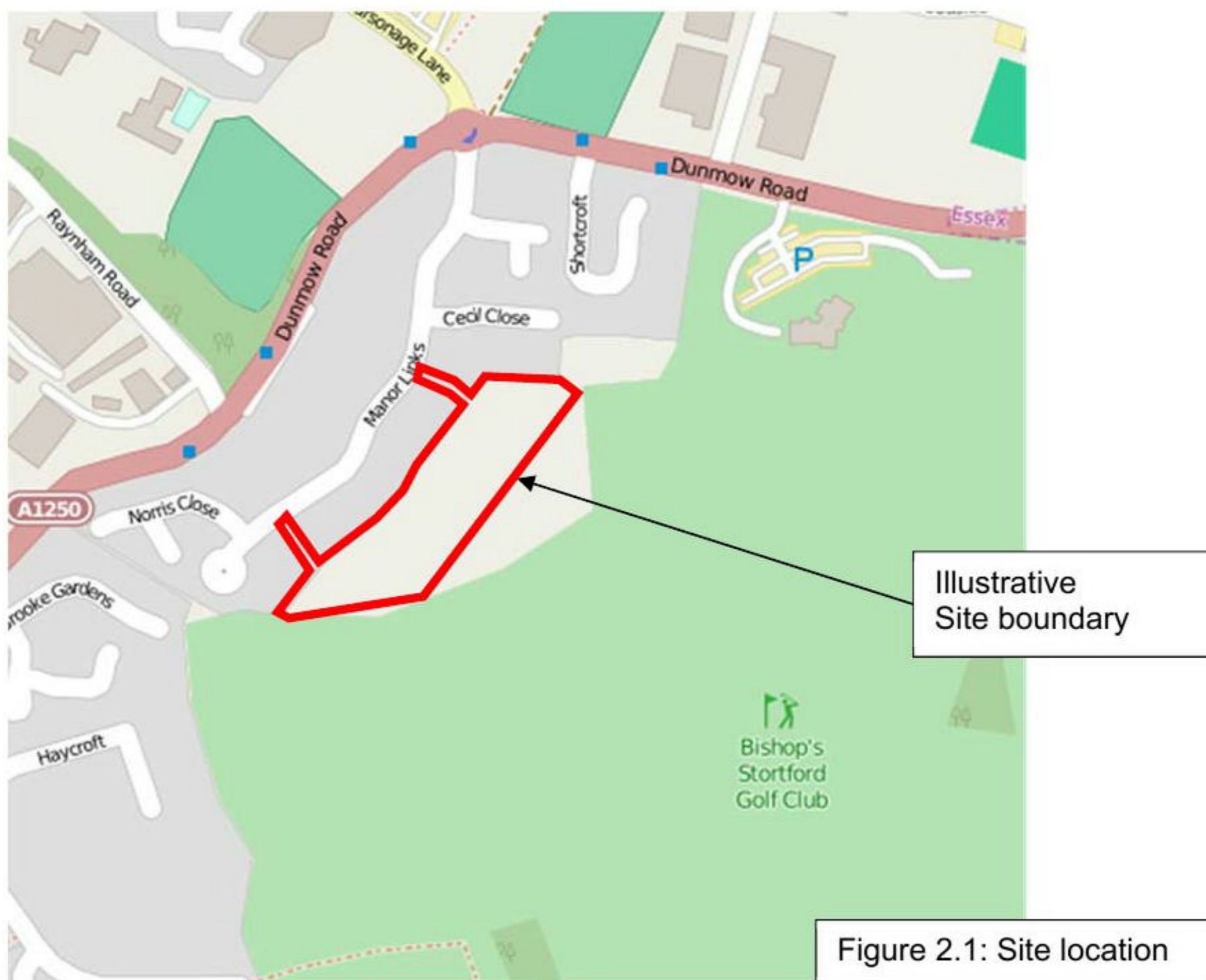
Chapter 4 Proposed Development: describes the BISH 9 development proposals including access for all modes. This section also sets out the trip attraction potential of the development for all modes and summarises the traffic modelling work undertaken on the main access points to the classified road network. Illustrative mitigation measures are also provided.

Chapter 5 Summary, provides a summary of the findings of the Transport Note

2 Existing site (BISH 9)

Introduction

- 2.1 The development site is located in Bishop's Stortford in the district of East Hertfordshire as illustrated outlined in red below. To the south and east, it has a border with Bishop's Stortford Golf Club, to the north and west it has borders with the rear gardens of the properties which front the roads known as Manor Links and Cecil Close.



- 2.2 The site is currently occupied by scrub land, which was previously part of the golf course.

Existing Access

- 2.3 The development site currently has two main points of entrance formed by two gated field entrances off Manor Links.

3 Accessibility and Existing Conditions

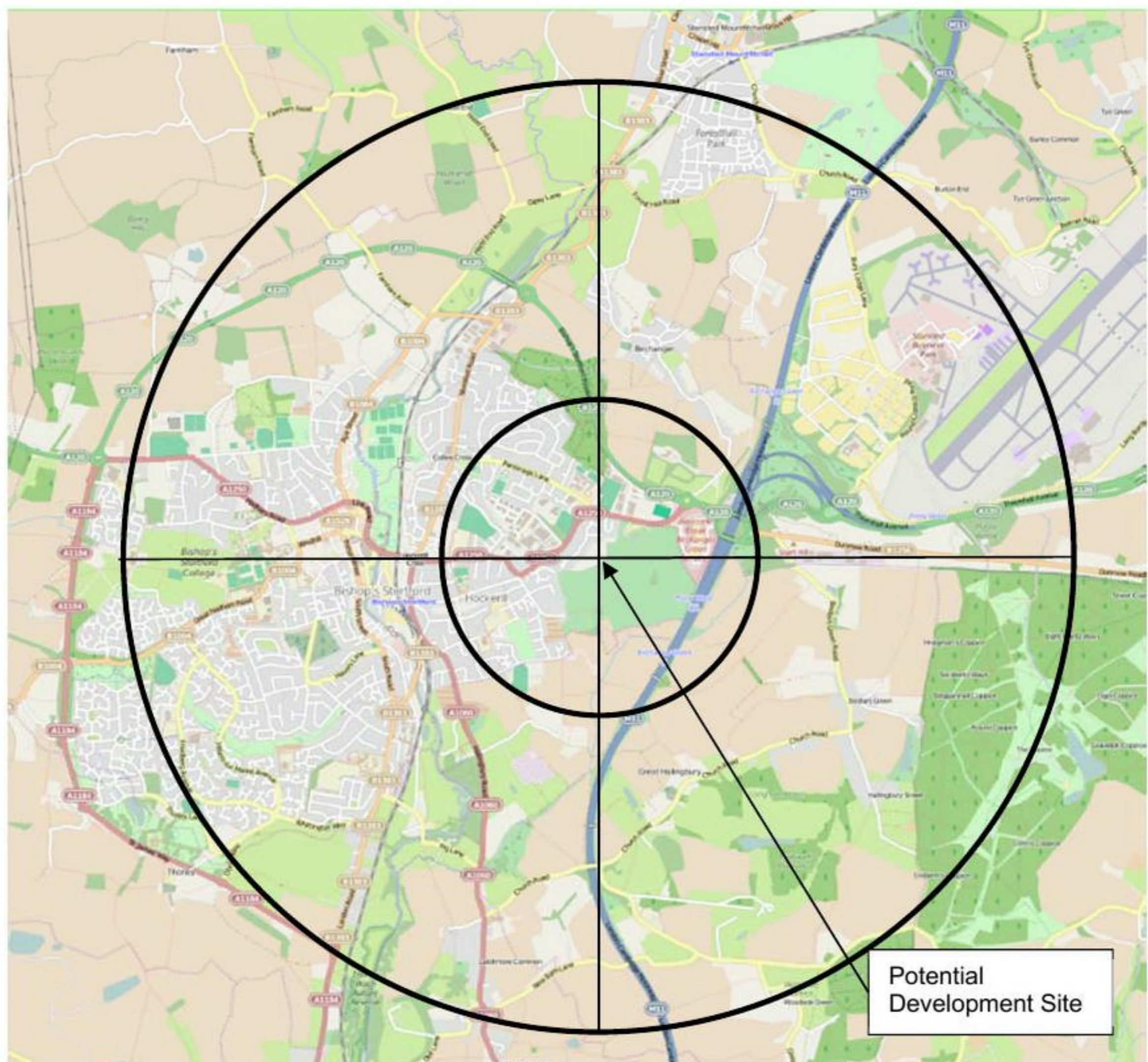
Introduction

- 3.1 This section provides a summary of the accessibility of the BISH 9 site for all modes. It includes an assessment of the accident record for the roads surrounding the site. Figure 3.1 shows the site in relation to the surrounding transport network.

Walking and Cycling

- 3.2 The Department for Transport statistics, National Travel Survey, Table NTS0306, shows the average trip length, by main mode, in Great Britain, 1995/97 to 2012. It shows that, in 2012, the average walking trip was 0.7 miles, and the average cycling trip was 3.2 miles. The figure below shows those walking and cycling distances from BISH 9.

Figure 3.1 Site in relation to a 0.7 mile walking distance and a 3.2 mile cycling distance



- 3.3 The ability to easily walk and cycle to facilities such as education, healthcare, shopping and jobs etc. affect the travel patterns generated by, and the sustainability of, development sites.
- 3.4 The website, <http://schoolsfinder.direct.gov.uk>, provides details of schools in England. It shows that there are 7 schools within a 0.7 mile walking radius of the development including; Infants', Primary, and Secondary Schools. Furthermore, there are a total of 22 schools in the town, within a 2.1 mile radius. Full details of the location of these schools, is provided within Appendix A.
- 3.5 The healthcare providers, located close to the site, can be found at, <http://www.nhs.uk>. This website shows that the Herts and Essex Community Hospital is located less than 0.7 miles from the site. It also shows that there are 2 GP surgeries located within a 0.7 mile radius, and a total of 6 in the town within a 3 mile radius, all of which are accepting new patients. NHS website also indicates that there is one dentist surgery within a 0.7 miles radius of the site which is accepting new patients and a total of three which are accepting new patients within 1 mile. The full outputs from these websites are included in Appendix A.
- 3.6 The local shopping area closest to the site is on Hockerill Street, located 0.8 miles from the site. It provides for the day to day need of the future residents with such shops as a newsagents/post office, hairdressers, launderette etc. South Street, which is part of Bishop's Stortford town centre is located around 1.2 miles from the site and it provides a wide range of shopping and entertainment opportunities as would be expected by a large market town.
- 3.7 The site is also within an easy walk of the employment opportunities provided at Rainham Road.
- 3.8 In summary, the site is located within walking and cycling distance of a range of shopping, education, employment, healthcare and entertainment opportunities ensuring that the future residents would be able to use these most sustainable modes for a significant proportion of their trips to and from the site.

Pedestrians

- 3.9 The BISH 9 development site is located in Bishop's Stortford, a well-developed market town, offering a wide range of retail, employment and entertainment land uses. It is also located within an established pedestrian network. The site has pedestrian accesses onto Manor Links

- 3.10 Manor Links is a quiet, no through road which is subject to a 30 mph speed limit and is street lit. It provides 1.8 m footways on both sides. A pedestrian link is provided to Dunmow Road in the south via Norris Close and Brooke Gardens / Road. Both of these are no through roads providing attractive and secure pedestrian environments. This pedestrian route is useful as it runs on the desire line between the site and Bishop's Stortford Town Centre and rail station. During the consultation process, HCC commented that:
- 'There are dedicated pedestrian facilities on both sides of Manor Links and these are deemed acceptable for the proposed level of development.'*
- 3.11 Manor Links forms a roundabout junction with Dunmow Road to the north of the site. All four arms of this roundabout are provided with traffic splitter islands which incorporate pedestrian refuges. The kerbs either side of the refuges are lowered to assist pushchair and wheel chair users. An additional pedestrian refuge is provided approximately 4 m to the east of the traffic splitter island on the Dunmow Road east arm. This refuge is 1.2 m wide and complete with flush kerbs and buff coloured tactile paving.
- 3.12 It is important that the future residents have easy pedestrian access to buses. The closest bus stops to the site are shown in figure 3.2. The routes to these stops are as follows: pedestrians walking to the stops to the west of the site simply cross Manor Links and then continue north on this road to Dunmow Road. A pedestrian refuge is provided to assist crossing of Dunmow Road to access the bus stop. Pedestrians accessing the stops to the east of the site can use the pedestrian footpath which links Cecil Close to Shorecroft for an attractive traffic free route to the bus stop on Dunmow Road in this location.
- 3.13 Pedestrians walking from the site in the direction of the town centre are provided with a footway on the north side of Dunmow Road between the roundabout with Manor Links and Raynham Road. A short section of footway is provided on the south eastern side of Dunmow Road close to the junction with Raynham Road. A pelican crossing is also provided at this location to assist pedestrians crossing Dunmow Road. The footway then continues on the northern side only up to Brooke Gardens. At which point, moving closer to the Town Centre, the environment becomes more urbanised and footways are generally provided on both sides of the road. A pelican crossing is also provided close to the junction with Brooke Gardens to assist pedestrians crossing Dunmow Road. It is noted that this pelican crossing is very conveniently located to assist pedestrians who travel south from the site via the Norris Close / Brooke Gardens link described earlier.

3.14 Pedestrians continuing on to the rail station and the town centre would do so via Warwick Road which is a direct, and no through, residential road providing an attractive walking environment.

3.15 In summary all of the accesses to the development site connect to Dunmow Road. Dunmow Road provides footways on at least one side for its entire length and, in the vicinity of the site it provides two pelican crossings and two pedestrian refuges. A pedestrian link, between Manor Links and Dunmow Road, is provided on the desire line for pedestrians destined for the rail station or town centre. There is also an attractive walking environment, between the site and the rail station and town centre, primarily composed of no through roads.

Cyclists

3.16 There are no specific routes provided for cyclists within Bishop's Stortford, however as described earlier, the site is located within an easy cycling distance of the town centre, shops, employment, education and transport opportunities. Also many of the roads within Bishop's Stortford are relatively quiet and would be appropriate for cycling. The route to the rail station and town centre is particularly convenient for cyclists as it is very direct and mainly on quiet no through roads. During the consultation process HCC commented that:

'There are no dedicated cycling routes located on Manor Links. However, Manor Links has a 30 mph speed limit in the vicinity of the development site and is therefore considered suitable for cycling.'

Buses

3.17 There are four bus stops located approximately 400 m from the site on Dunmow Road and Parsonage Lane. The stops on Dunmow Road are comprised of a bus stop flag and timetable, and the stop on Parsonage Lane also includes a shelter, bench and a bin. The location of the stops, in relation to the development site, is shown in the figure below.

Figure 3.2 Bus stops close to the site



3.18 There are six bus routes available from these stops. The route and frequency information for these is provided in Appendix B, and summarised in the table below.

Table 3.1 Bus routes close to the site

Route	From - To	Frequency buses per hour			
		AM & PM Peak Hours First - last bus	Eves	Sat	Sun
7 / 7A	Stansted Airport - Bishop's Stortford	1/hr 06:11 – 18:26	n/a	1/hr	n/a
20	Anstey - Bishops Stortford	1/day	n/a	n/a	n/a
308	Bishop's Park - Bishop's Stortford - Stansted Airport	1/day	n/a	n/a	n/a
309	Bishop's Stortford - Stansted Airport	00:28 – 23:28 Eves only	1/hr	1/hr	1/hr All day
319	Bishop's Stortford - Takeley - Great Dunmow - High Roding	1/day school bus	n/a	n/a	n/a
508	Harlow - Stansted Airport	2/hr 06:58 – 18:33	n/a	2/hr	n/a

3.19 In summary, the development site is well served by six bus routes, which are accessible within a short walk, and they provide frequent connections to the local and surrounding area. During the consultation process HCC commented that with respect to the development:

'Bus routes available from the nearest stops give good access to the town centre and the surrounding areas and also Saffron Walden'

3.20 The bus, is therefore likely to be an important mode of transport for the future residents of, and the visitors to, the proposed development.

3.21 HCC has advised:

'As neither of the bus stops closest to the site currently meet accessibility requirements in terms of easy access kerbing and there is no shelter provision, it is considered a high priority for improvements at these locations and/or others in the nearby vicinity. In terms of developer contributions £16,000 would allow for easy access kerbing enhancements at two stops to be completed. Provision of an additional shelter would cost a further £6,000.'

3.22 The TA will confirm that a s 106 financial contribution for these measures will be provided should the need remain at the time of a planning application for the site, unless alternative funding provision has already been made, or would be covered otherwise, such as via a CIL payment.

Public Transport - Rail

3.23 The nearest rail station is Bishop's Stortford, located 1.1 miles from the site. This station is operated by Abellio Greater Anglia and it provides frequent services to important destinations such as London, Cambridge and Stansted Airport.

3.24 The off peak frequency of these services is shown in the table below.

Table 3.2 Bishop's Stortford - Off peak rail services

Destination	Frequency
London Liverpool Street	4 / Hour
Cambridge	1 / Hour
Stratford (London)	2/ Hour
Stansted Airport	2/ Hour

3.25 The station provides 236 secure cycle parking spaces protected by CCTV within the station and on the forecourt ensuring that the future residents of the development would be able to cycle to and park at the rail station, as they connect to destinations further afield. The station also provides 477 car parking spaces. Bike & Go bicycles are also available for hire at the station, for more details visit: <http://www.bikeandgo.co.uk/>

3.26 The future residents of the development, would therefore benefit from convenient access to a range of rail services, which connect to major destinations, allowing the train to

provide an alternative to the private car, for a significant proportion of the longer trips from the development.

3.27 With respect to the accessibility of the site by non car modes, HCC made the following comment during the consultation process:

'The level of accessibility of the surrounding area is deemed suitable for the proposed level of development.'

Roads

3.28 The site has two points of access onto Manor Links which is a 6.1 m wide quiet residential cul-de-sac. There are single yellow lines on Manor Links prohibiting parking between 9 am and 10 am to ensure the free flow of daytime traffic. Manor Links forms a four arm conventional roundabout junction with Parsonage Lane and Dunmow Road. The roundabout has an inscribed circle diameter of 28 m.

3.29 Dunmow Road (A1250) is a classified local distributor road. It runs from the A120 in the north east, to London Road and Bishop's Stortford Town Centre in the south and west. It is a two way road, generally subject to a 30 mph speed limit, and around 6 m in width.

3.30 The site is located less than one mile away from Junction 8 of the M11 via Dunmow Road and a short section of the A120.

Speed

3.31 An Automatic Traffic Counter was installed adjacent to the two proposed access points on Manor Links to record the current speed of vehicles, The full methodology and output is provided in Appendix C.

3.32 The average 2-way 24 hour 85th percentile speed for the two sites was calculated as follows:

- Site 1: 28 mph
- Site 2: 27 mph

3.33 However, it is noted that the southern access is close to the end of the road and as such the speed in a southerly direction may be different to the speed in a northerly direction. The speeds for this site were therefore further broken down into north and southbound as follows:

- Site 2 – Northbound: 25 mph
- Site 2 – Southbound: 28 mph

Accidents

- 3.34 The three year personal injury collision data was sought from Hertfordshire County Council for the roads surrounding the BISH 9 site in February 2015. The full accident record is provided in Appendix D. The records show that in this area there were 4 Personal Injury Accidents. Of these, 3 were slight, 1 was serious and there were no fatalities. The distribution of the accidents, shown in the appendix, illustrates that no clusters of accidents occurred.
- 3.35 A slight accident occurred when a vehicle stopped on Dunmow Road waiting to turn right into Shortcroft and it was struck from behind. Another slight accident occurred when a child walked out into Parsonage Lane and their foot was run over by a passing car.
- 3.36 A serious accident occurred when a driver travelling north-eastwards on the A1250 Dunmow Road close to the junction with Brooke Gardens left the carriageway and collided with roadside furniture. The contributory factors recorded at the scene were: 'ill/disability mental/physical' and 'distraction in vehicle'.
- 3.37 Finally, a slight accident occurred when an 81 year old driver travelling on Dunmow Road mounted the kerb at the junction with Haymeads Lane, crossed the junction and collided with the railings.
- 3.38 In summary there were no clusters of accident, location or type within the study area. No accidents occurred at either of the entrances on Manor Links. As such it is considered that there is no existing safety issue relating to the existing highway arrangement.
- 3.39 During the consultation process, HCC reviewed the accident analysis presented above and commented:
- 'due to the nature of the proposed development, it is not expected that the proposal will impact the safety of the highway'*

4 PROPOSED DEVELOPMENT

Introduction

4.1 The development proposals comprise the construction of approximately 50 new dwellings with 119 car parking spaces. The current masterplan comprises:

- Private, 30 dwellings:
 - 2 No. 1 Bedroom Apartments
 - 1 No. 2 Bedroom Apartments
 - 4 No. 2 Bedroom Bungalows
 - 3 No. 2 Bedroom Houses
 - 4 No. 3 Bedroom Bungalows
 - 6 No. 3 Bedroom Houses
 - 4 No. 4 Bedroom Houses
 - 6 No. 5 Bedroom Houses

- Affordable, 20 dwellings:
 - 6 No. 1 Bedroom Apartments
 - 11 No. 2 Bedroom Apartments
 - 1 No. 2 Bedroom Houses
 - 2 No. 3 Bedroom Houses

4.2 The key features of the development are shown in Weston Homes' drawings provided at the back of this report.

Access

4.3 The development will have two points of access onto Manor Links both of which will be suitable for all modes, with pedestrians linking in with the existing Manor Links footways, and cyclists and general traffic using the two main carriageways. The illustrative access arrangements are shown in PTP drawing number 1010-21195-05. Both accesses provide 5.5 m wide carriageways and 2 m wide footways on one side. The northern access provides visibility splays of 2.4 x 43 m which equates to a 30 mph road speed in the Manual for Streets.

4.4 The southern access is located close to the end of the road where which has the following 85th percentile road speeds:

- Northbound: 25 mph
- Southbound: 28 mph

4.5 In line with the formula provided in the Manual for Streets these speeds at the southern access equate to 'y' distances of 33 m and 39 m respectively. The junction arrangement

drawing shows that these visibility splays can be provided at the junction in compliance with Manual for Streets. To achieve these visibility splays it is proposed to reduce the width of Manor Links in the vicinity of the junction by approximately 400 mm, to 5.5 m in width, over a distance of 100 m.

- 4.6 The site access layout for both points of access has been issued to HCC and in their email dated 12th August 2016 both were confirmed as acceptable in principle at this stage in the planning process.
- 4.7 The Transport Assessment which will accompany the planning application for the site will include information relating to the location and collection of refuse within the site; swept path assessments of the internal layout to demonstrate that large refuse and servicing vehicles can safely enter and egress the site in a forward gear; and swept path assessments for the car parks to demonstrate that large cars can safely access all parking spaces.
- 4.8 The current illustrative scheme shows that a 3 m wide shared cycle and footway can be provided within the site ensuring a safe route through the site.
- 4.9 It is proposed to retain the layout of the junctions within the study area in their current format subject to potential minor amendments which are discussed in the mitigation measures section.

Car parking

- 4.10 Once a detailed scheme has been devised, in respect of which a full planning application will be made, the TA will set out the justification for the level of parking provision for each dwelling size and type, reflecting the parking standards in the emerging East Herts District Plan, once this carries significant weight. The parking courts will be demonstrated to be in accordance with the guidance in Roads in Hertfordshire, with geometries demonstrated to be satisfactory.

Cycle parking

- 4.11 Once a detailed scheme has been devised, in respect of which a full planning application will be made, the TA will set out the justification for the level of cycle parking provision for each dwelling size and type, reflecting the cycle parking standards in the emerging East Herts District Plan, once this carries significant weight. The parking provision will be demonstrated to be in accordance with the guidance in Roads in Hertfordshire, with geometries demonstrated to be satisfactory.

Movements to and from the site

4.12 TRICS is the UK and Ireland's national system of trip generation analysis, containing over 6903 directional transport surveys at over 110 types of development.

4.13 The TRICS database was interrogated for appropriate sites using the following selection criteria:

- 03 – Residential
- M – Mixed Private / Affordable Housing
- Calculate multi modal trip rates
- Region: All sites in England except Greater London
- Location Type: All except 'Edge of Town Centre'

4.14 During the consultation process HCC commented that:

'The selection criterion utilised to determine the trip generation profiles is considered acceptable'

4.15 The average vehicle trip rates for this selection is provided in the table below.

Table 4.1 Vehicle Trip Rates (average) per dwelling unit

Time	Arrival	Departure	2-Way
08:00-09:00	0.124	0.321	0.445
17:00 – 18:00	0.265	0.147	0.412

4.16 The selected sites were then further filtered, removing several sites which have a significantly higher, and a few with a significantly lower, level of public transport than the development site. The vehicle trip rates for this is provided below.

Table 4.2 Vehicle Trip Rates (Selected for similar Public Transport provision) per dwelling unit

Time	Arrival	Departure	2-Way
07:00 – 08:00	0.126	0.381	0.507
17:00 – 18:00	0.312	0.176	0.488

4.17 The table shows that the TRICS vehicular trip rates for the selected sites is slightly higher than the average. It is considered that these (selected) trip rates are appropriate as they

represent the sites most similar to the development site and the worst case in terms of vehicle trip generation, ensuring that the subsequent analysis will be robust. All subsequent analysis is based on the 'selected for similar Public Transport' TRICS data. The full output from TRICS for this dataset is provided in Appendix E.

- 4.18 The TRICS trip rates for all modes and the equivalent trip generation for 50 units is provided in the table below.

Table 4.3 Multimodal trip rates, and Trip Generation for 50 units

	Trip Rates per unit			Trip generation for 50 units		
	In	Out	2-Way	In	Out	2-Way
Total people						
08:00-09:00	0.179	0.726	0.905	9	36	45
17:00-18:00	0.477	0.275	0.752	24	14	38
Vehicles						
08:00-09:00	0.126	0.381	0.507	6	19	25
17:00-18:00	0.312	0.176	0.488	16	9	24
OGVs						
08:00-09:00	0.002	0.002	0.004	0	0	0
17:00-18:00	0.001	0.001	0.002	0	0	0
PSVs						
08:00-09:00	0.001	0.001	0.002	0	0	0
17:00-18:00	0.001	0.001	0.002	0	0	0
Cyclists						
08:00-09:00	0.005	0.016	0.021	0	1	1
17:00-18:00	0.013	0.007	0.02	1	0	1
Vehicle occupants						
08:00-09:00	0.146	0.567	0.713	7	28	36
17:00-18:00	0.400	0.221	0.621	20	11	31
Pedestrians						
08:00-09:00	0.025	0.109	0.134	1	5	7
17:00-18:00	0.05	0.046	0.096	3	2	5
Bus/tram passengers						
08:00-09:00	0.002	0.029	0.031	0	1	2
17:00-18:00	0.013	0.001	0.014	1	0	1
Total rail passengers						
08:00-09:00	0.000	0.005	0.005	0	0	0
17:00-18:00	0.001	0	0.001	0	0	0
Coach passengers						
08:00-09:00	0.000	0.001	0.001	0	0	0
17:00-18:00	0.000	0.000	0	0	0	0
Public transport users						
08:00-09:00	0.002	0.034	0.036	0	2	2
17:00-18:00	0.014	0.001	0.015	1	0	1

Forecast Traffic Growth

4.19 DfT Circular 02/2013 which deals with the Strategic Road Network states that:

'The overall forecast demand should be compared to the ability of the existing network to accommodate traffic over a period up to ten years after the date of registration of a planning application or the end of the relevant Local Plan whichever is the greater. This is known as the review period.'

It also states that:

'Development proposals are likely to be acceptable if they can be accommodated within the existing capacity of a section (link or junction) of the strategic road network, or they do not increase demand for use of a section that is already operating at over-capacity levels, taking account of any travel plan, traffic management and/ or capacity enhancement measures that may be agreed. However, development should only be prevented or refused on transport grounds where the residual cumulative impacts of development are severe.'

4.20 The East Herts Local Plan second review 2007 forms part of the statutory Development Plan for East Herts District and is used by East Herts Council to determine planning applications across the district. It covers the period up to 2011. If a planning application were lodged in 2016 the forecast year would be 2026, which is ten years after the registration. However, a planning application at this site will not be lodged until after the adoption of the East Herts District Plan, (which will replace the 2007 Local Plan) now programmed for adoption in 2017, so the forecast year would be 2027. In fact the District Plan is currently proposed to cover the period up to 2031, and therefore 2031 has been used as the review period. It should be noted that the District Plan may now cover a shorter period, but this report will maintain the 2031 forecast year in order to be a robust assessment.

4.21 TEMPRO 6.2 was interrogated using NTM AF09 Dataset for Principal Roads within the Urban Area of Bishop's Stortford for the period of 2015 to 2031. The growth in this period is predicted to be AM 1.140 and PM 1.151 or around 15%.

Traffic Modelling

4.22 ARCADY (Assessment of Roundabout Capacity and Delay, Version 6) is a computer program for predicting capacities, queues and delays at roundabouts and mini-roundabouts. A traffic models has been prepared of the following junction:

- Four arm conventional roundabout at the junction between Dunmow Road, Manor Links and Parsonage Lane.

Trip Distribution

4.23 During the consultation process, Hertfordshire County Council requested that, with respect to the proposed trip generation that: ‘Appropriate justification and explanation is required to determine the suitability of the distribution profile.’ The following section therefore explores the suitability of applying the development trips using the existing distributions.

4.24 The development trips have been distributed using the same proportions as the existing traffic passing through the junction as shown in the figures below.

Figure 4.1 – AM Peak Trip Distributions

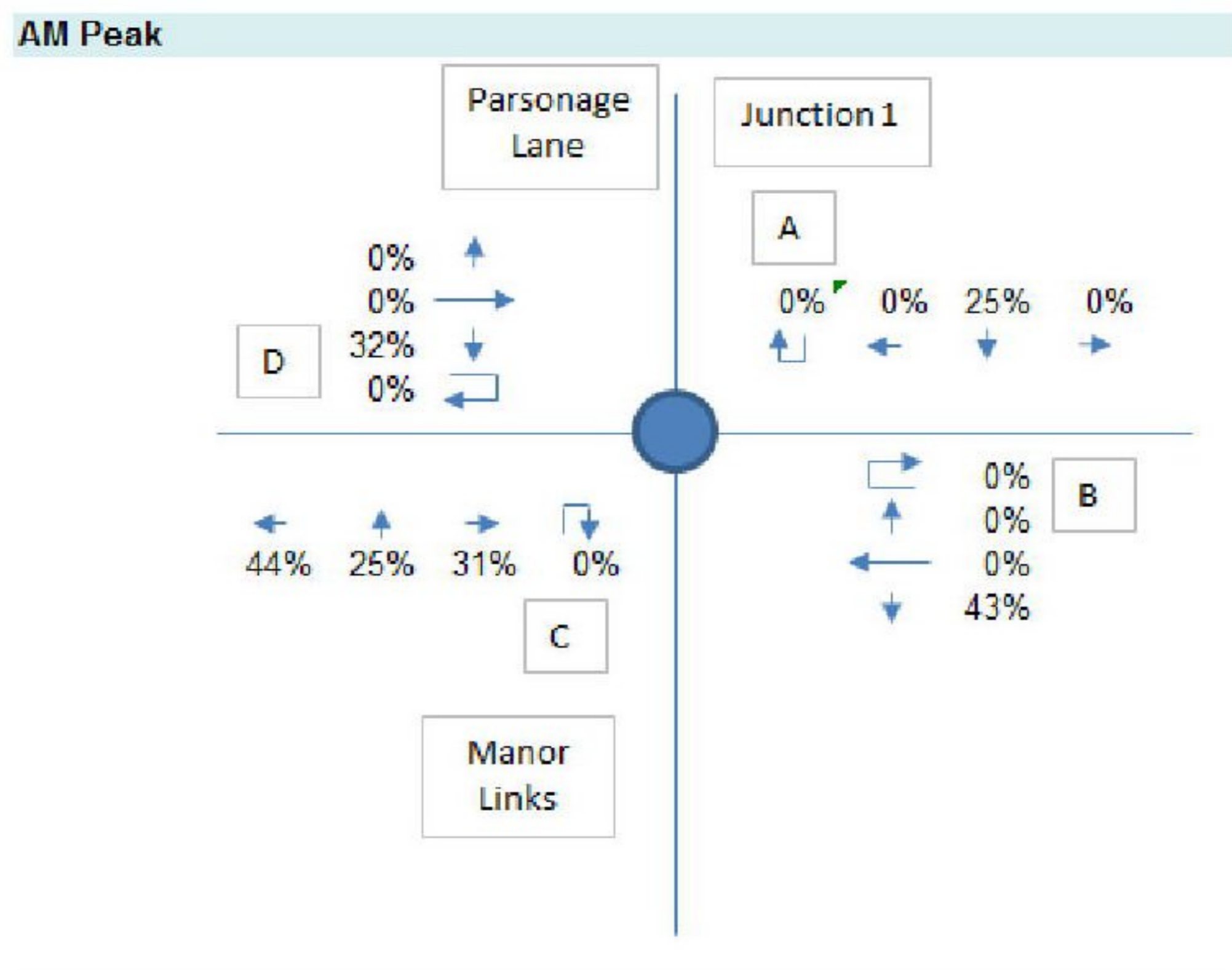
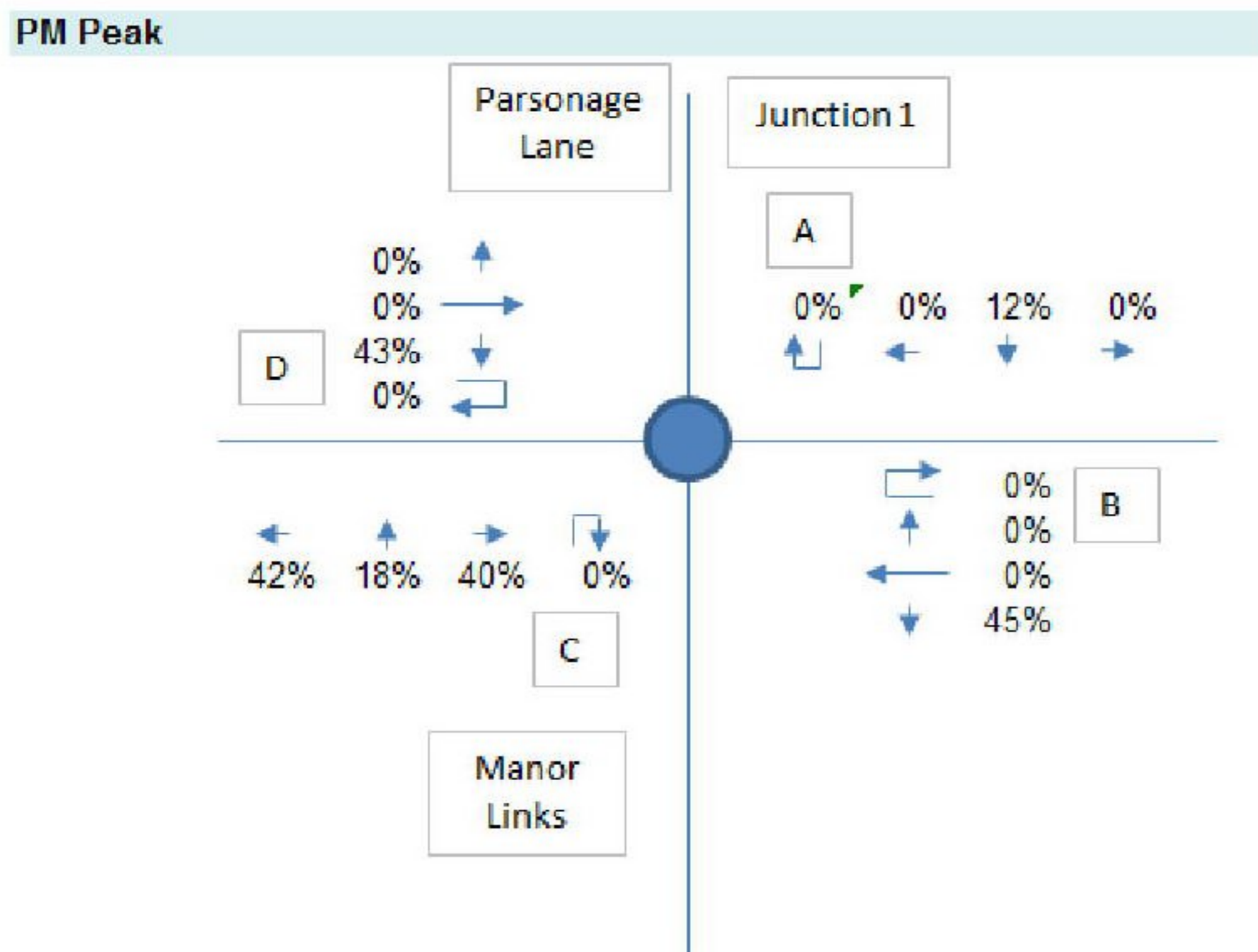


Figure 4.1 – AM Peak Trip Distributions



4.25 The development site is located on the eastern fringe of Bishop’s Stortford and also on the eastern fringe of East Hertfordshire. It is therefore likely that the future residents travelling to Bishop’s Stortford and a proportion of those to the wider East Hertfordshire area will utilise primarily the A1250 to the west of the site, and also, to a lesser extent the unclassified road Parsonage Lane. The residents travelling further afield are likely to travel east on the A1250 to connect with the A120 and the M11.

4.26 The 2011 Census data was interrogated for all of the locations in the UK where residents of the area surrounding the site (Super Output Area: E02004882 : East Hertfordshire 005) travel to work. The analysis revealed the current residents of this area travel to work in the following areas:

- Cambridge 1.5%
- Epping Forest 2.7%
- Harlow 8.9%
- Uttlesford 23.3%
- Broxbourne 2.4%
- East Hertfordshire 42.2%
- Welwyn Hatfield 1.4%

- Camden 2.4%
- City of London 5.3%
- Islington 1.5%
- Southwark 1.6%
- Tower Hamlets 2.8%
- Westminster 3.9%

4.27 This shows that there is a relatively even split between the East Hertfordshire and destinations further afield. It is noted that Bishop's Stortford is by far the largest town in East Hertfordshire, and considering the location of the development is likely to be a key workplace destination for the future residents of the development.

4.28 In summary, the census data shows that the future residents workplace trips are likely to be relatively evenly split between; destinations further afield, traveling east from the site on the A1250, and to Bishop's Stortford and East Hertfordshire, travelling mainly on the A1250 west and to a lesser extent Parsonage Lane. This split is in line with the proportions of existing traffic. The existing distributions provide a reasonable representation of the movement of the future residents and are therefore considered appropriate.

Traffic modelling

4.29 Three scenarios have been tested:

- Scenario 1 - 2015 Base Flows
- Scenario 2 - 2031 Base Flows
- Scenario 3 - 2031 Base Flows + Development Flows (50 units)

Scenario 1 - 2015 Base Flows

4.30 Manual Classified Traffic Counts were undertaken at the two junctions on Thursday 29th January 2015. The flows, and those for the other scenarios are summarised in Appendix F.

Scenario 2 - 2031 Base Flows

4.31 The growth factor for the period between 2015 and 2031 has been applied to the base flows to produce Scenario 2.

Scenario 3 - 2031 Base Flows + Development Flows (50 units)

- 4.32 The development is residential in nature
- 4.33 The trip generation for the development site has been distributed at the study junction based on the existing distributions and added to the 2031 base flows to make up scenario 3.

Traffic modelling results

- 4.34 Traffic models for the three scenarios have been produced based on geometric information taken from OS mapping as shown in the drawings at the back of this report. The results of the modelling are provided in the tables below, the values quoted are RFC or Ratio of Flow to Capacity, and End Q which is the queue length at the end of the busiest time segment within the model:

Table 4.4 ARCADY model results Dunmow Road / Parsonage Lane

Arm	Scenario 1		Scenario 2		Scenario 3	
	<i>AM Peak</i>					
	End Q	RFC	End Q	RFC	End Q	RFC
Parsonage Lane	1.7	0.64	3.1	0.76	3.2	0.77
Dunmow Road E	10.2	0.93	53.5	1.07	56.1	1.08
Manor Links	0.1	0.06	0.1	0.08	0.2	0.15
Dunmow Road W	1.6	0.62	2.4	0.71	2.5	0.72
<i>PM Peak</i>						
Parsonage Lane	0.3	0.23	0.4	0.28	0.4	0.28
Dunmow Road E	1.8	0.65	3.0	0.76	3.1	0.76
Manor Links	0.0	0.01	0.0	0.02	0.0	0.04
Dunmow Road W	1.3	0.56	1.9	0.66	2.0	0.66

- 4.35 In Arcady and Picady, if an RFC is at or below 0.85 queuing will be theoretically avoided. The results of the modelling shows that for all time periods and all scenarios, queuing will be avoided on all arms of the junction except for the Dunmow Road east approach to the roundabout during the AM Peak. This fact is validated by the queue length survey which recorded significant queuing on this arm during the AM peak.
- 4.36 The Dunmow Road east approach to the roundabout currently (scenario 1) has an RFC of 0.93. By 2031 the growth in background traffic (Scenario 2) would generate an RFC of 1.07 and with the development (Scenario 3) the RFC would be 1.08. This is only a very small increase in RFC and is unlikely to have a significant impact. However options have been investigated to illustrate how this small impact could be mitigated.

Mitigation measures – Dunmow Road / Parsonage Lane Roundabout

- 4.37 PTP drawing number 1001-21195-01 shows the existing arrangement at this junction complete with the Arcady measurements. It is noted that the existing arrangement

includes a relatively recently installed pedestrian refuge island on Dunmow Road east of Manor Links. Any mitigation measures must therefore balance the requirements for minor increases in traffic capacity whilst maintaining or enhancing the current pedestrian provision.

4.38 Two options have been developed to mitigate the impact of the development as follows:

- Option 1 (1002-21195-01) – Puffin Crossing
- Option 2 (1004-21195-01) – Provide new wider traffic island to replace the existing refuge island

4.39 These two options both provide very similar capacity improvements by widening the approach to the Dunmow Road east arm of the junction within the existing highway land. It is also considered that both of the options provide an improvement to the current pedestrian provision. Option 1 provides a signal controlled crossing which would make crossing easier than the via the current refuge island. Option 2 provides a wider refuge than in the current situation and it also provides the crossing directly on the pedestrian desire line. Should the signal controlled crossing be pursued pedestrian surveys may be required to establish the impact of this arrangement on the roundabout.

4.40 The results of the Arcady model for the mitigation measures is provided in the table below. Full traffic modelling outputs are provided in Appendix G.

Table 5.5 Mitigation measures – Dunmow Road / Parsonage Lane / Manor Links

Arm	Scenario 3 - Mitigation Options			
	Option 1 - Refuge		Option 2 - Puffin	
	AM Peak			
	End Q	RFC	End Q	RFC
Parsonage Lane	3.2	0.77	3.2	0.77
Dunmow Road E	42.7	1.05	41.4	1.05
Manor Links	0.2	0.16	0.2	0.16
Dunmow Road W	2.5	0.72	2.5	0.72
	PM Peak			
Parsonage Lane	0.4	0.28	0.4	0.28
Dunmow Road E	2.8	0.74	2.7	0.74
Manor Links	0.0	0.04	0.0	0.04
Dunmow Road W	2.0	0.66	2.0	0.66

4.41 The modelling results show that in 2031, after the implementation of the development and the mitigation measures, (either option 1 or 2), that the RFC of the Dunmow Road

eastern approach would be below that if no development or mitigation measures took place. The measures therefore provide better than nil detriment.

4.42 The modelling results also show that in respect of the Manor Links arm, during the AM and PM peaks, in 2031, with the proposed development and either mitigation option on Dunmow Road, the RFC's indicate that significant queueing will **not** be generated.

4.43 During the consultation process, HCC reviewed the results presented above and commented:

'The results are considered acceptable and demonstrate that reasonable mitigation measures can be introduced to improve the operation of the junction and mitigate the impact of the proposed development.'

Travel Plan Statement

4.44 The TA will confirm that a Travel Plan Statement (TPS) will be provided via a planning condition of a planning permission for the proposed development, as the proposal is for 50 dwelling units. The TPS will conform to Hertfordshire's Travel Plan Guidance for Business and Residential Development. The TPS will focus on site measures to promote the use of sustainable transport, and deal with any issues raised in the TA, or make a contribution towards a more strategic scheme. For example, the developer/occupier might be required to join a local travel forum or similar travel plan network to promote use of sustainable modes.

Construction Logistics Plan

4.45 The TA will confirm that the developer will support a planning condition that requires a construction logistics plan to ensure that construction vehicles access the site in an agreed manner which will not have a detrimental impact on the vicinity of the site, and to provide adequate parking for construction vehicles on-site to prevent on-street conflict and impacts to highway safety.

5 Summary

5.1 The main findings of this Transport Note are summarised below:

- The BISH 9 development proposals comprise the construction of approximately 50 new dwellings. It is currently proposed that 40% of the units will be affordable.
- The site is located within easy walking and cycling distance of a range of facilities which are likely to be utilised by the future residents of the development on a day to day basis including; Infants', Primary and Secondary Schools, employment sites, GPs, Dentists and Hospitals. The future residents are therefore likely to walk and cycle, i.e. using the most sustainable modes of transport for a significant proportion of the trips to and from the development.
- For residents travelling further afield, the site is also located conveniently close to four bus stops and the Bishop's Stortford Rail Station. These public transport access points provide frequent services to a wide range of destinations.
- The accident record does not identify any cluster of accident types or locations of concern.
- Traffic capacity analysis has been carried out on the Manor Links roundabout junction with Dunmow Road, for both the AM and PM peak Periods. The following scenarios were tested:
 - Scenario 1 - 2015 Base Flows
 - Scenario 2 - 2031 Base Flows
 - Scenario 3 - 2031 Base Flows + Development Flows (50 units)
- The analysis shows that queueing is not generated for all three scenarios during the AM or PM peak, except for the Dunmow Road eastern arm of the roundabout with Parsonage Lane and Manor Links, which generates queues for all three of the scenarios for the AM peak only. It is stressed the accident record does not include any accidents caused by the existing queueing at this junction.
- Although this impact is only very slight two mitigation options have been illustrated which provide better than nil-detriment ensuring that, for the forecast year of 2031 following the implementation of the development and either option 1 or 2 mitigation, that the queueing at the Dunmow Road east arm of the junction would be less than it would be without the development. The mitigation measures achieve the increase in capacity by providing minor widening to the offside approach to the roundabout.

Both of these options also retain, or enhance, the existing pedestrian provision by either improving the directness of pedestrian movements or providing a signal controlled crossing.

- The modelling also demonstrates that with the development of 50 dwellings and 2031 traffic flows, and with either; no mitigation measures, mitigation option 1, or option 2, significant queueing would still be avoided on the Manor Links arm of the Dunmow Road roundabout, even during the AM and PM peaks. Accordingly the traffic generated by the development proposed, modelled for 2031, can be accommodated on Manor Links.
- The contents of this Transport Note have been assessed and accepted by the Highway Authority, Hertfordshire County Council, which has confirmed that it has no objection to the principle of the development on the site and that the two proposed accesses onto Manor Links are acceptable in principle.

Appendix A: Education and healthcare facilities



Public services all in one place

You are here: [Home](#) [Find schools](#) School results

School search



You have searched for schools within a 5 mile radius of **CM23 5RB**

Location:

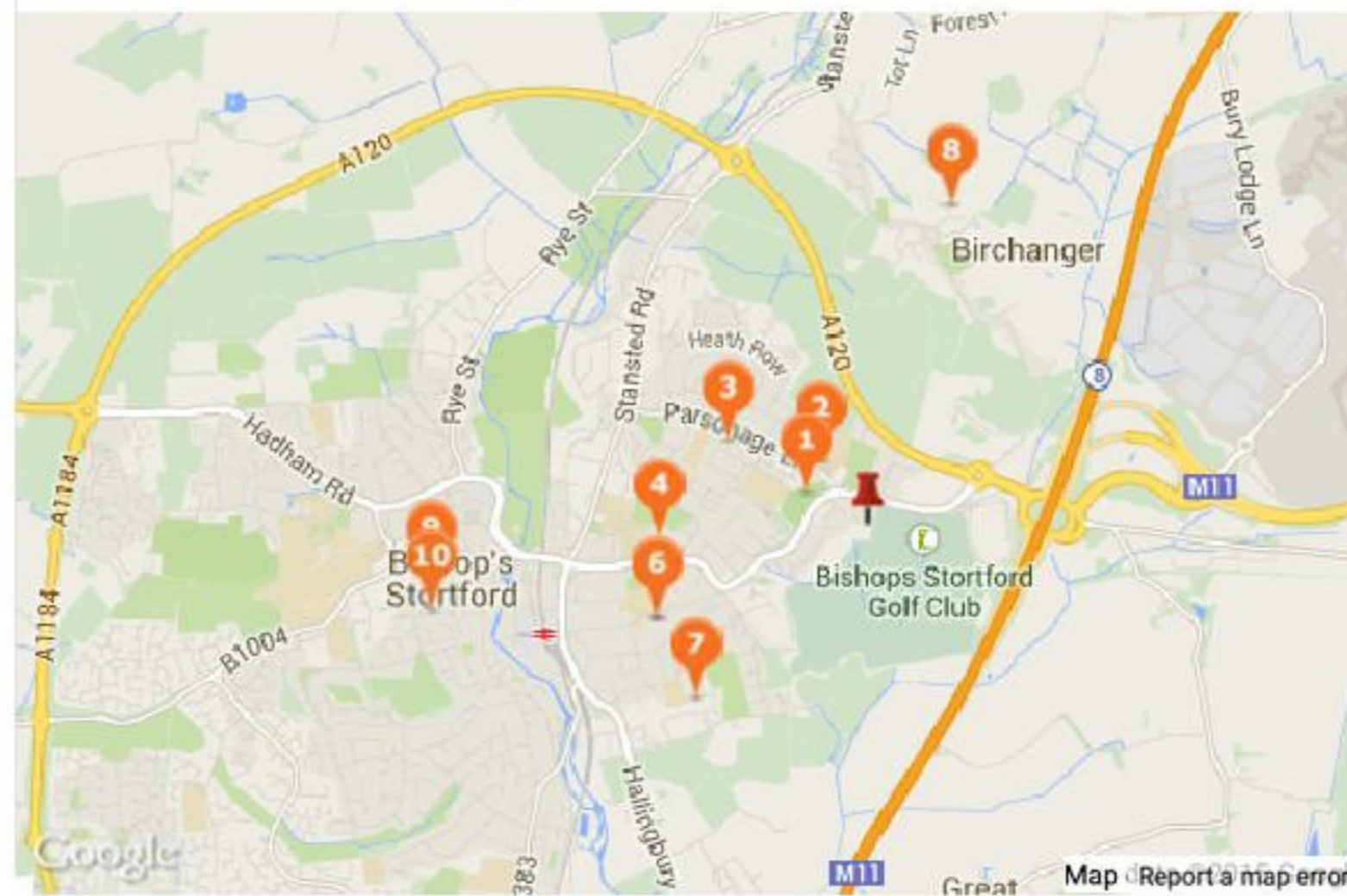
CM23 5RB

Distance:

5 miles

Refine your search:

Closest 10 schools to you



All results
[JSON](#) [XML](#)

Showing 25 results of 44 Arrange list by Distance

First Previous **1** 2 Next Last

1. Summercroft Primary School (0.20 miles)

Head teacher:
Mr Michael Smith

Ofsted Data Dashboard
[View full report](#)

Address:
Parsonage Lane, Bishop's Stortford, CM23 5BJ

Latest key stage 2 achievement
[View full report](#)

Telephone:
01279 307477

Local Authority:
[Hertfordshire](#)

472 pupils, 3-11 years, Mixed gender **Ofsted latest Inspection**

Nursery provision

[Add to favourites](#)

2. Birchwood High School (0.23 miles)

1347 pupils, 11-18 years, Mixed gender **Ofsted latest Inspection**

Specialisms

[Add to favourites](#)

3. All Saints Church of England Primary School and Nursery, Bishop's Stortford (0.48 miles)

232 pupils, 3-11 years, State funded, Mixed gender **Ofsted latest Inspection**

Nursery provision

[Add to favourites](#)

4. Hockerill Anglo-European College (0.61 miles)

849 pupils, 11-18 years, Mixed gender **Ofsted latest Inspection**

Specialisms

[Add to favourites](#)

5. The Hertfordshire & Essex High School and Science College (0.67 miles)

1126 pupils, 11-18 years, State funded, Girls **Ofsted latest Inspection**

Specialisms

[Add to favourites](#)

6. The Hertfordshire & Essex High School and Science College (0.67 miles)

11-18 years, Girls **Ofsted latest Inspection**

Specialisms [Add to favourites](#)

7. Thorn Grove Primary School (0.71 miles)

232 pupils, 3-11 years, State funded, Mixed gender **Ofsted latest Inspection**

Nursery provision [Add to favourites](#)

8. Birchanger Church of England Voluntary Controlled Primary School (0.96 miles)

109 pupils, 4-11 years, State funded, Mixed gender **Ofsted latest Inspection**

[Add to favourites](#)

9. Windhill School (1.29 miles)

379 pupils, 3-11 years, State funded, Mixed gender **Ofsted latest Inspection**

Nursery provision [Add to favourites](#)

10. St Michael's Church of England Primary School (1.29 miles)

238 pupils, 3-11 years, State funded, Mixed gender **Ofsted latest Inspection**

Nursery provision ICT Award [Add to favourites](#)

Saint Mary's Catholic School (1.36 miles)

Ofsted latest Inspection
 915 pupils, 11-18 years, State funded, Mixed gender

ICT Award Specialisms [Add to favourites](#)

The Bishop's Stortford High School (1.43 miles)

1099 pupils, 11-18 years, State funded, Boys **Ofsted latest Inspection**

ICT Award Specialisms [Add to favourites](#)

Thorley Hill Primary School (1.49 miles)

228 pupils, 3-11 years, State funded, Mixed gender **Ofsted latest Inspection**

Nursery provision ICT Award [Add to favourites](#)

Northgate Primary School (1.56 miles)

464 pupils, 3-11 years, Mixed gender **Ofsted latest Inspection**

Nursery provision [Add to favourites](#)

St Joseph's Catholic Primary School (1.57 miles)

347 pupils, 3-11 years, State funded, Mixed gender **Ofsted latest Inspection**

Nursery provision [Add to favourites](#)

Bishop's Stortford College (1.64 miles)

Ofsted latest Inspection

- | | |
|---|-----------------------------------|
| 1114 pupils, 4-18 years, Privately funded, Mixed gender | Add to favourites |
|---|-----------------------------------|
-
- | |
|--|
| Howe Green House (1.72 miles) |
| <u>Ofsted latest Inspection</u>
174 pupils, 2-11 years, Privately funded, Mixed gender |
| Nursery provision Add to favourites |
-
- | |
|---|
| Richard Whittington Primary School (1.73 miles) |
| 341 pupils, 3-11 years, State funded, Mixed gender <u>Ofsted latest Inspection</u> |
| Nursery provision ICT Award Add to favourites |
-
- | |
|--|
| Forest Hall School (1.80 miles) |
| 11-16 years, Mixed gender <u>Ofsted latest Inspection</u> |
| Specialisms Add to favourites |
-
- | |
|---|
| Forest Hall School (1.80 miles) |
| <u>Ofsted latest Inspection</u>
337 pupils, 11-16 years, State funded, Mixed gender |
| Special needs provision Specialisms Add to favourites |
-
- | |
|---|
| Hillmead Primary School (2.06 miles) |
| 225 pupils, 3-11 years, State funded, Mixed gender <u>Ofsted latest Inspection</u> |
| Nursery provision ICT Award Add to favourites |
-
- | |
|---|
| Manor Fields Primary School (2.10 miles) |
| 471 pupils, 3-11 years, State funded, Mixed gender <u>Ofsted latest Inspection</u> |
| Nursery provision Add to favourites |
-
- | |
|---|
| St Mary's CofE Foundation Primary School (2.27 miles) |
| 231 pupils, 5-11 years, State funded, Mixed gender <u>Ofsted latest Inspection</u> |
| Add to favourites |
-
- | |
|---|
| Little Hallingbury Church of England Voluntary Aided Primary School (2.51 miles) |
| 167 pupils, 5-11 years, State funded, Mixed gender <u>Ofsted latest Inspection</u> |
| Add to favourites |
-
- | |
|---|
| Bentfield Primary School (2.61 miles) |
| 246 pupils, 3-11 years, State funded, Mixed gender <u>Ofsted latest Inspection</u> |
| Nursery provision Add to favourites |

Key


Your location on map

Location on map

Find out more

Special needs provision

Nursery provision

ICT award 

Has a specialism

National average**Ofsted overall effectiveness**

Outstanding: 13%

Good: 43%

Satisfactory: 37%

Inadequate: 8%

Key stage 2 achievement

Combined maths and english:
73%

GCSE/equiv. achievement

5+ A*-C grades: 53.4%

Baccalaureate percentage

% pupils achieving: 15.6%

A/AS/equiv. achievement

Avg. point score per student:
744.8

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Talk to someone

Coram clc (Children's legal centre) provides legal information and representation on all issues of the law relating to children and young people.

Web chat service advisors are available 9.00am to 6.00pm, Monday to Friday, except on bank holidays and the period of 24 December to 1 January

Free legal advice line:
08088 020 008

[Coram clc \(Children's legal centre\) website](#)

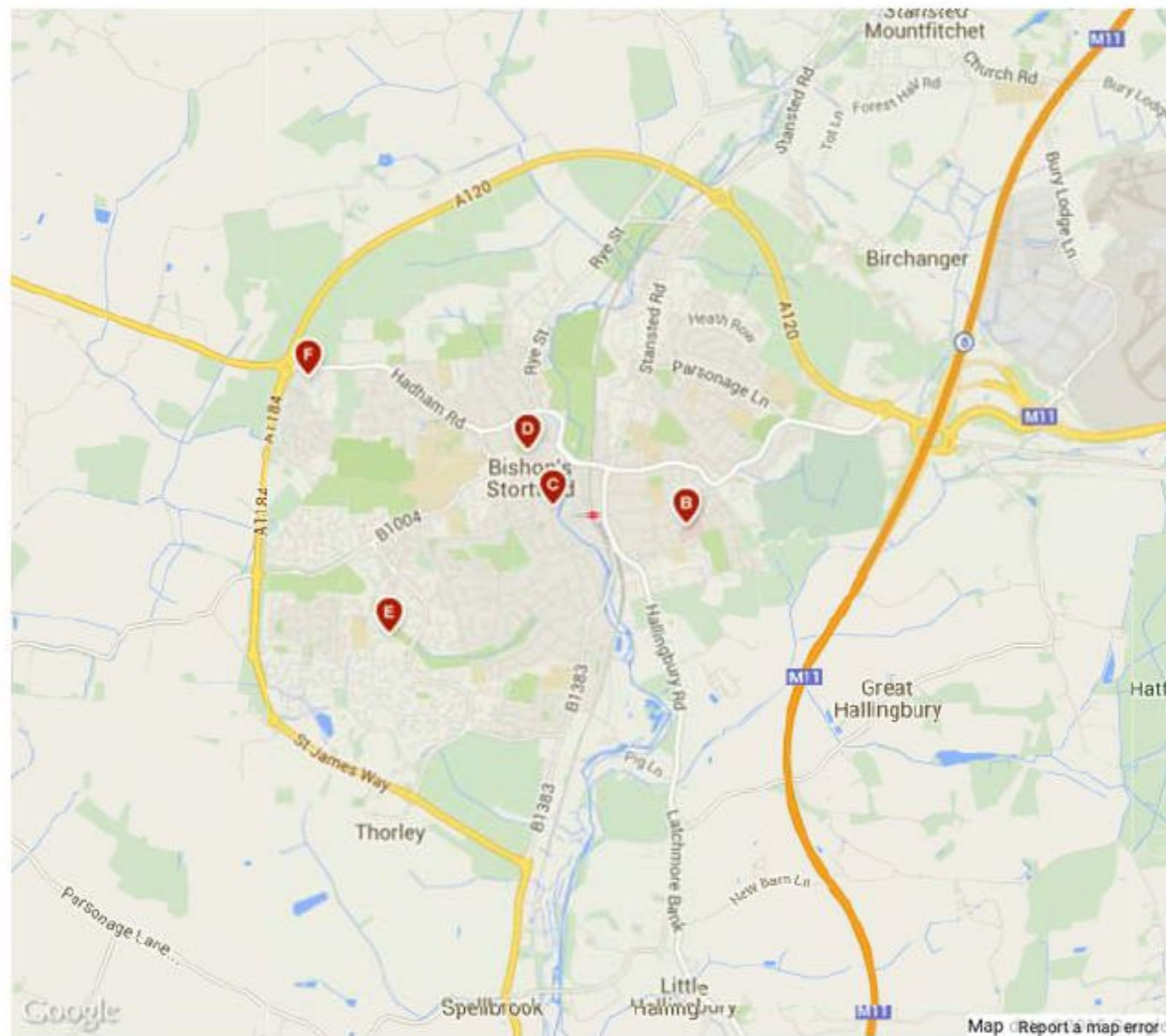
[Legal advice website for young people](#)

Distances given are in a straight line but travel routes may be longer. Please check before starting your journey

NHS choices
Your health, your choices

Map of GP in CM23 5RB

Showing 1-10 of 1283 results



A Haymeads Health Centre



3 ratings

-

Tel: 01279 657 636

Cavell Drive

Bishop's Stortford

Herts

Bishops Stortford

CM23 5JH

0.62 miles

B PARSONAGE SURGERY



9 ratings

-

Tel: 01279 827608

Parsonage Surgery

Herts & Essex Community Hospital

Cavell Drive, Haymeads Lane

Bishop's Stortford, Herts.

CM23 5JH

0.62 miles

C South Street Surgery



33 ratings

-

Tel: 01279 465700


83 South Street

Bishop's Stortford

Herts

CM23 3AP

1.10 miles

 **Church Street Surgery**

17 ratings

-

Tel: 01279 657636

30a Church Street

Bishops Stortford

Herts

Bishops Stortford

CM23 2LY

1.15 miles

 **Thorley Health Centre**

2 ratings

-

Tel: 01279 657636

Villiers-Sur-Marne


Thorley Park

Bishops Stortford

Bishops Stortford

CM23 4EG

1.97 miles

 **Bishop's Park Health Centre (branch of South Street Surgery)**

9 ratings

-

Tel: 01279 465700

Lancaster Way

Bishop's Stortford

Hertfordshire

CM23 4DA

2.12 miles

 **The Stansted Surgery**

30 ratings

-

Tel: 01279 813200

~~Redlands~~

86 St. Johns Road

Stansted

Essex

CM24 8JS

2.44 miles

 **Elsenham Surgery**

1 rating

-

Tel: 01279 814730

~~Elsenham Surgery~~

Station Road

~~Elsenham~~

Bishop's Stortford

Hertfordshire

CM22 6LA

3.56 miles

 **~~The Eden Surgeries, Hatfield Heath~~**

6 ratings

-

Tel: 01279 730616

Broomfields

~~Hatfield Heath~~

Bishop's Stortford

Can you help us improve?

Take part in our short survey




























- [Yes please](#)
- [Maybe later](#)
- [No thanks](#)

NHS choices
Your health, your choices

Results for Dentists in CM23 5RA

Showing 1-10 of 1054 results

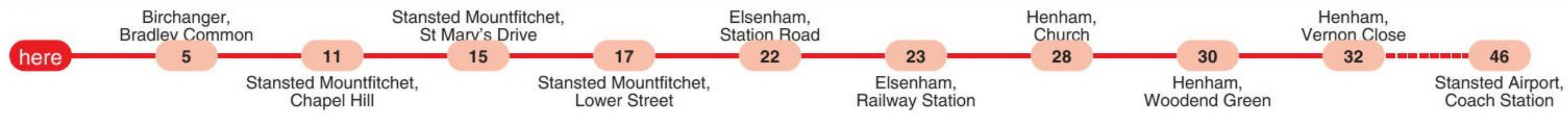
Distances given are in a straight line but travel routes may be longer. Please check before starting your journey

Address & contact details	NHS Choices users rating	Currently accepting new adult patients that pay for their care	Currently accepting new adult patients that are exempt from paying for care	Currently accepting new patients aged between 0-18 years
Limes [The] - Orthodontic Practice				
Tel: 01279 758210 30 Stansted Road Bishop's Stortford Herts CM23 2DX 0.7 miles 	 1 rating - Rate it yourself	 Fee-paying adults: No	 Charge-exempt adults: No	 Children aged 0-18 years: Yes
Hockerill Dental Practice				
Tel: 01279 652400 25 Hockerill Court London Road Bishop's Stortford Herts CM23 5SB 0.7 miles 	 2 ratings - Rate it yourself	 Fee-paying adults: Yes	 Charge-exempt adults: Yes	 Children aged 0-18 years: Yes
Riverside Dental Practice				
Tel: 01279 652344 Ground Floor 22 The Causeway Bishop's Stortford Hertfordshire CM23 2EJ 0.9 miles 	 20 ratings - Rate it yourself	 Fee-paying adults: No	 Charge-exempt adults: No	 Children aged 0-18 years: No
Kletz Mr PM & Sher Mr D				
Tel: 01279710100 66 South Street Bishop's Stortford Hertfordshire CM23 3AZ 1.0 miles 	 8 ratings - Rate it yourself	 Fee-paying adults: Yes	 Charge-exempt adults: Yes	 Children aged 0-18 years: Yes
Oasis Dental Care Ltd				
Tel: 01279 654097 1 Barrett Lane Bishop's Stortford Hertfordshire CM23 2JT 1.0 miles 	 5 ratings - Rate it yourself	 Fee-paying adults: Yes	 Charge-exempt adults: Yes	 Children aged 0-18 years: Yes
Sawbridgeworth Dental Practice				
Tel: 01279 724121 Townend House 99 London Road Sawbridgeworth Hertfordshire CM21 9JJ 4.1 miles	 2 ratings - Rate it yourself	 Fee-paying adults: Yes	 Charge-exempt adults: Yes	 Children aged 0-18 years: Yes

Appendix B: Bus timetables and maps

Bus departures from this stop Parsonage Estate nr Birchwood High School

7 Bishop's Stortford - Elsenham - Henham - Takeley - Stansted Airport Acme Transport Services



7A Bishop's Stortford - Elsenham - Henham - Takeley - Stansted Airport Acme Transport Services



20 Anstey - Bishops Stortford C G Myall & Son



302 Bishop's Stortford - Ugley - Quendon - Newport - Saffron Walden Panther Travel



319 Bishop's Stortford - Takeley - Great Dunmow - High Roding JW Lodge & Sons



508 Harlow - Stansted Airport sxConnect (operated by Arriva)



The numbers circled indicate approximate timings in minutes from Parsonage Estate, Birchwood High School

Mondays to Fridays Bus times as at 18th April 2016

Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note				
0611	7		0820	508	C	0924	508	B	1128	508		1328	508		1532	508		1640	508	C	1826	7A		
0654	7		0830	7		0924	508	C	1141	7A		1341	7A		1556	319	Sch	1721	508	B	1831	508	B	
0658	508		0834	20	B	0958	508		1158	508		1358	508		1605	7A		1723	508	C	1833	508	C	
0733	508		0850	508	B	1028	508		1228	508		1428	508		1605	508	B	1730	7					
0749	302	Sch	0852	508	C	1041	7		1256	7		1458	508		1607	508	C	1755	508	B				
0818	508	B	0915	7A		1058	508		1258	508		1515	7		1638	508	B	1757	508	C				

Saturdays Bus times as at 23rd April 2016

Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note			
0611	7		0830	7		1028	508		1158	508		1341	7A		1528	508		1728	508	
0643	508		0846	508		1041	7		1228	508		1358	508		1558	508		1730	7	
0654	7		0915	7A		1058	508		1256	7		1428	508		1605	7A		1804	508	
0728	508		0922	508		1128	508		1258	508		1458	508		1628	508		1826	7A	
0810	508		0958	508		1141	7A		1328	508		1515	7		1658	508		1847	508	

Sundays
 No Service

Notes: C - Hertfordshire School Holidays only B - Hertfordshire Schooldays only Sch - Schooldays only
 Times shown in italics are approximate times



Next bus times on your phone

the code for this stop is **hrt dpwaj**

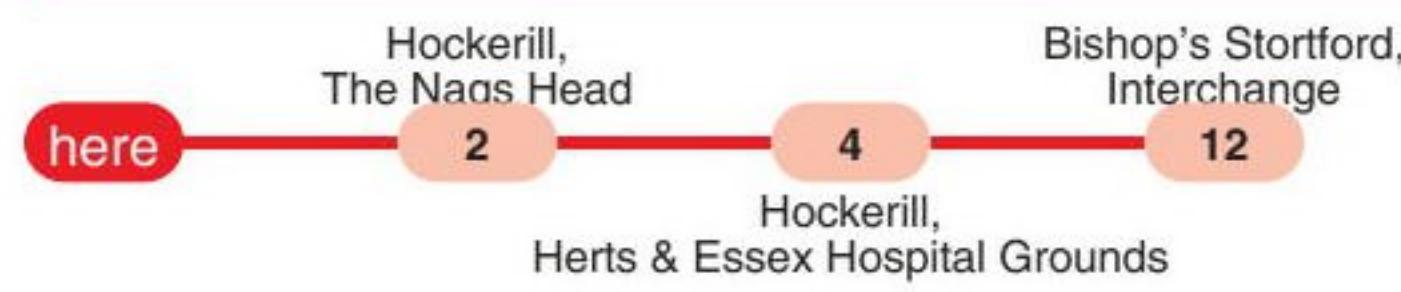
Mobile internet: Use the QR code (left) if you can, or enter the stop code at www.nextbuses.mobi

By SMS: text the stop code to 84268. Add a space and service number for just that service.

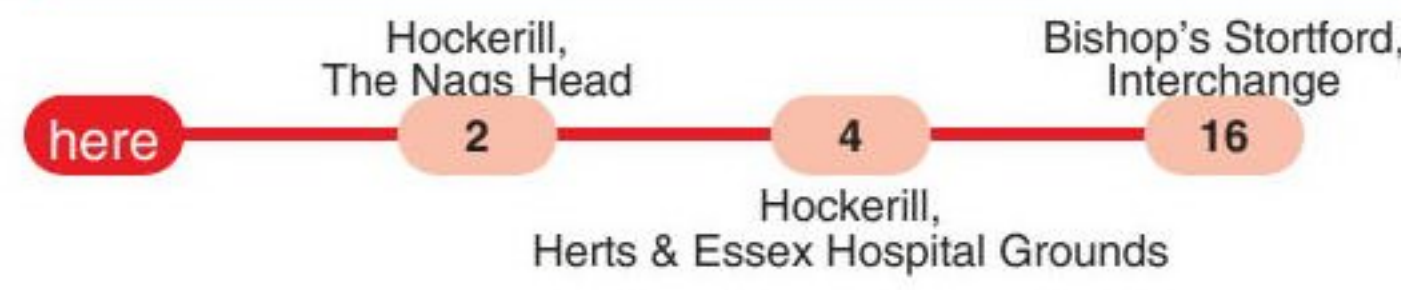
Internet enquiries incur normal mobile internet charges. SMS messages cost 25p plus your normal text message charge.

Live Departure information will be given if available (eg 3 mins) - otherwise scheduled times will be shown as clock times (eg 1007).

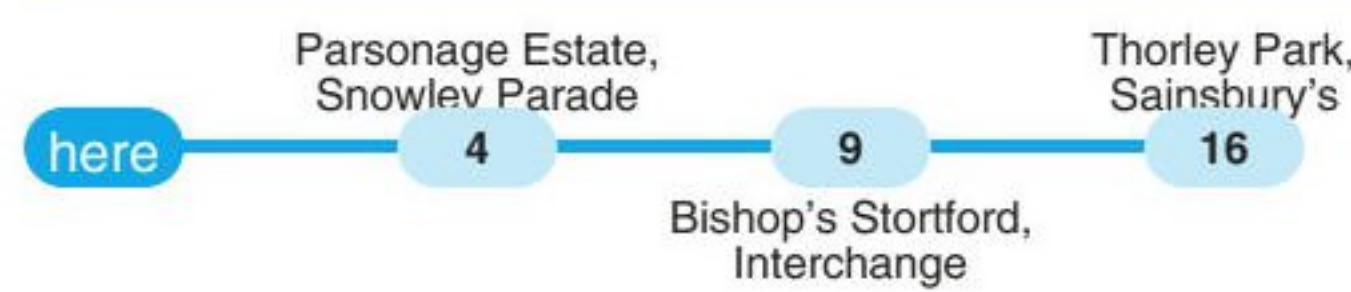
7 Stansted Airport - Takeley - Henham - Elsenham - Bishop's Stortford Acme Transport Services



7A Stansted Airport - Takeley - Henham - Elsenham - Bishop's Stortford Acme Transport Services



309 Stansted Airport - Bishop's Stortford Arriva Harlow



319 High Roding - Great Dunmow - Takeley - Bishop's Stortford JW Lodge & Sons



The numbers circled indicate approximate timings in minutes from Parsonage Estate, Shortcroft

Mondays to Fridays Bus times as at 18th April 2016

Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note			
0054	309		0534	309		0937	7A		1219	7		1528	7A		1904	7		2154	309	
0415	309		0751	7		1004	7		1333	7A		1649	7		1954	309		2254	309	
0515	309		0802	319	Sch	1108	7A		1434	7		1753	7A		2054	309		2354	309	

Saturdays Bus times as at 23rd April 2016

Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note			
0054	309		0534	309		1004	7		1333	7A		1649	7		1954	309		2254	309	
0415	309		0751	7		1108	7A		1434	7		1753	7A		2054	309		2354	309	
0515	309		0937	7A		1219	7		1528	7A		1904	7		2154	309				

Sundays Bus times as at 24th April 2016

Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note			
0054	309		0554	309		0854	309		1154	309		1454	309		1754	309		2054	309		2354	309	
0354	309		0654	309		0954	309		1254	309		1554	309		1854	309		2154	309				
0454	309		0754	309		1054	309		1354	309		1654	309		1954	309		2254	309				

Notes: Sch - Schooldays only
 Times shown in italics are approximate times



Next bus times on your phone

the code for this stop is **hrttdmj**

Mobile internet: Use the QR code (left) if you can, or enter the stop code at www.nextbuses.mobi

By SMS: text the stop code to 84268. Add a space and service number for just that service.

Internet enquiries incur normal mobile internet charges. SMS messages cost 25p plus your normal text message charge.

Live Departure information will be given if available (eg 3 mins) - otherwise scheduled times will be shown as clock times (eg 1007).

508 Stansted Airport - Harlow sxConnect (operated by Arriva)



509 Stansted Airport - Bishop's Stortford - Sawbridgeworth - Harlow sxConnect (operated by Arriva)



The numbers circled indicate approximate timings in minutes from Parsonage Estate, Shortcroft

Mondays to Fridays Bus times as at 18th April 2016

Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note			
0659	508		0827	509	Sch	1004	508		1142	509		1334	508		1512	509	Sch	1620	508	C	1733	509	
0710	509		0829	508	C	1012	509		1204	508		1342	509		1524	509	NSch	1623	509	Sch	1733	508	C
0737	508	B	0837	509	NSch	1034	508		1212	509		1404	508		1540	508	B	1631	509	NSch	1759	508	
0746	509	Sch	0900	508		1042	509		1234	508		1412	509		1548	509	Sch	1649	508	B	1807	509	
0751	508	C	0908	509		1104	508		1242	509		1434	508		1550	508	C	1657	508	C	1833	508	
0804	509	NSch	0934	508		1112	509		1304	508		1442	509		1553	509	NSch	1659	509	Sch	1842	509	
0816	508	B	0942	509		1134	508		1312	509		1504	508		1612	508	B	1724	508	B	1906	509	

Saturdays Bus times as at 23rd April 2016

Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note			
0647	509		0856	509		1034	508		1204	508		1334	508		1504	508		1634	508		1804	508	
0719	508		0922	508		1042	509		1212	509		1342	509		1512	509		1642	509		1814	509	
0732	509		0932	509		1104	508		1234	508		1404	508		1534	508		1704	508		1840	508	
0804	508		0934	508		1112	509		1242	509		1412	509		1542	509		1712	509		1850	509	
0817	509		0958	508		1134	508		1304	508		1434	508		1604	508		1734	508		1942	509	
0846	508		1008	509		1142	509		1312	509		1442	509		1612	509		1742	509				

Sundays

No Service

Notes: C - Hertfordshire School Holidays only B - Hertfordshire Schooldays only NSch - Not Schooldays Sch - Schooldays only
 Times shown in italics are approximate times



Next bus times on your phone

the code for this stop is **hrttdmj**

Mobile internet: Use the QR code (left) if you can, or enter the stop code at www.nextbuses.mobi

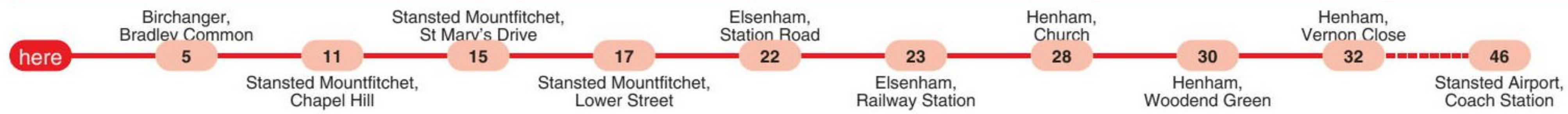
By SMS: text the stop code to 84268. Add a space and service number for just that service.

Internet enquiries incur normal mobile internet charges. SMS messages cost 25p plus your normal text message charge.

Live Departure information will be given if available (eg 3 mins) - otherwise scheduled times will be shown as clock times (eg 1007).

Bus departures from this stop Parsonage Estate opp Shortcroft

7 Bishop's Stortford - Elsenham - Henham - Takeley - Stansted Airport Acme Transport Services



7A Bishop's Stortford - Elsenham - Henham - Takeley - Stansted Airport Acme Transport Services



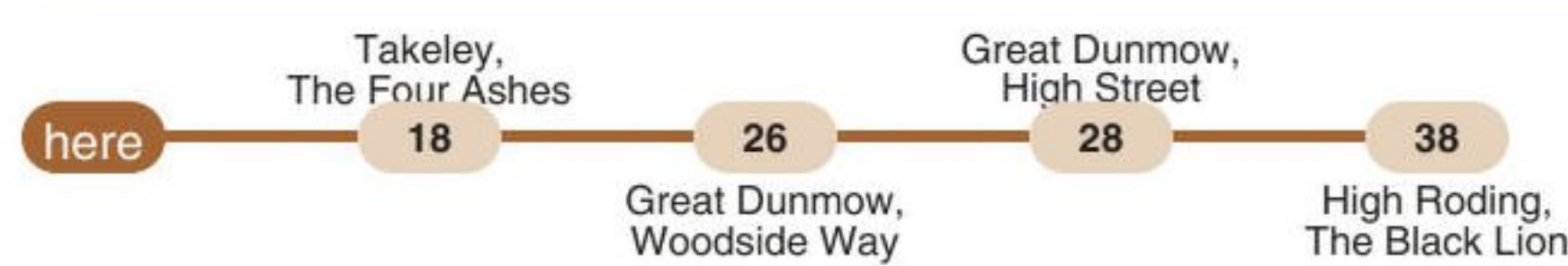
20 Anstey - Bishops Stortford C G Myall & Son



309 Bishop's Stortford - Stansted Airport Arriva Harlow



319 Bishop's Stortford - Takeley - Great Dunmow - High Roding JW Lodge & Sons



The numbers circled indicate approximate timings in minutes from Parsonage Estate, Shortcroft

Mondays to Fridays Bus times as at 18th April 2016

Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note			
0028	309		0458	309		0654	7		0915	7A		1256	7		1557	319	Sch	1826	7A		2128	309	
0328	309		0558	309		0830	7		1041	7		1341	7A		1605	7A		1928	309		2228	309	
0428	309		0611	7		0835	20	C	1141	7A		1515	7		1730	7		2028	309		2328	309	

Saturdays Bus times as at 23rd April 2016

Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note			
0028	309		0458	309		0654	7		1041	7		1341	7A		1730	7		2028	309		2328	309	
0328	309		0558	309		0830	7		1141	7A		1515	7		1826	7A		1928	309		2128	309	
0428	309		0611	7		0915	7A		1256	7		1605	7A		1928	309		2228	309				

Sundays Bus times as at 24th April 2016

Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note			
0028	309		0528	309		0828	309		1128	309		1428	309		1728	309		2028	309		2328	309	
0328	309		0628	309		0928	309		1228	309		1528	309		1828	309		2128	309				
0428	309		0728	309		1028	309		1328	309		1628	309		1928	309		2228	309				

Notes: C - Hertfordshire Schooldays only Sch - Schooldays only
 Times shown in italics are approximate times



Next bus times on your phone

the code for this stop is **hrttdwa**

Mobile internet: Use the QR code (left) if you can, or enter the stop code at www.nextbuses.mobi

By SMS: text the stop code to 84268. Add a space and service number for just that service.

Internet enquiries incur normal mobile internet charges. SMS messages cost 25p plus your normal text message charge.

Live Departure information will be given if available (eg 3 mins) - otherwise scheduled times will be shown as clock times (eg 1007).

386 Stevenage - Bishops Stortford Richmonds Coaches



508 Harlow - Stansted Airport sxConnect (operated by Arriva)



509 Harlow - Sawbridgeworth - Bishop's Stortford - Stansted Airport sxConnect (operated by Arriva)



The numbers circled indicate approximate timings in minutes from Parsonage Estate, Shortcroft

Mondays to Fridays Bus times as at 18th April 2016

Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note			
0640	509		0826	386	B	0939	509		1141	509		1341	509		1547	509		1703	509	Sch	1812	509	NSch
0658	508		0831	509	Sch	0958	508		1158	508		1358	508		1605	508	B	1721	508	B	1831	508	B
0713	509		0835	509	NSch	1011	509		1211	509		1411	509		1607	508	C	1723	508	C	1833	508	C
0733	508		0850	508	B	1028	508		1228	508		1428	508		1620	509	Sch	1736	509	Sch	1843	509	
0748	509	Sch	0852	508	C	1041	509		1241	509		1441	509		1621	509	NSch	1737	509	NSch	1910	509	
0750	509	NSch	0905	509	Sch	1058	508		1258	508		1458	508		1638	508	B	1755	508	B			
0818	508	B	0924	508	B	1111	509		1311	509		1511	509		1640	508	C	1757	508	C			
0820	508	C	0924	508	C	1128	508		1328	508		1532	508		1702	509	NSch	1811	509	Sch			

Saturdays Bus times as at 23rd April 2016

Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note			
0643	508		0846	508		1028	508		1158	508		1328	508		1458	508		1628	508		1804	508	
0701	509		0901	509		1041	509		1211	509		1341	509		1511	509		1641	509		1819	509	
0728	508		0922	508		1058	508		1228	508		1358	508		1528	508		1658	508		1847	508	
0746	509		0937	509		1111	509		1241	509		1411	509		1541	509		1711	509		1910	509	
0810	508		0958	508		1128	508		1258	508		1428	508		1558	508		1728	508				
0825	509		1011	509		1141	509		1311	509		1441	509		1611	509		1743	509				

Sundays

No Service

Notes: C - Hertfordshire School Holidays only B - Hertfordshire Schooldays only NSch - Not Schooldays Sch - Schooldays only
 Times shown in italics are approximate times



Next bus times on your phone

the code for this stop is **hrttdwa**

Mobile internet: Use the QR code (left) if you can, or enter the stop code at www.nextbuses.mobi

By SMS: text the stop code to 84268. Add a space and service number for just that service.

Internet enquiries incur normal mobile internet charges. SMS messages cost 25p plus your normal text message charge.

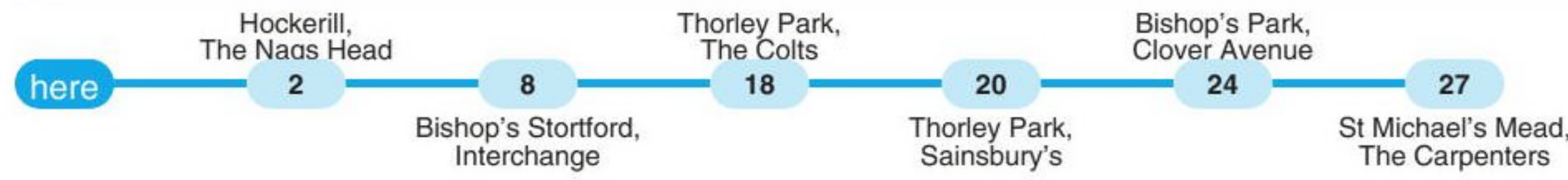
Live Departure information will be given if available (eg 3 mins) - otherwise scheduled times will be shown as clock times (eg 1007).

Bus departures from this stop Parsonage Estate o/s Birchwood High School

20 Bishops Stortford - Anstey C G Myall & Son



302 Saffron Walden - Newport - Quendon - Ugley - Bishop's Stortford Panther Travel



306 Bishop's Stortford - Manuden - Clavering - Wicken Bonhunt Acme Transport Services



306 Wicken Bonhunt - Clavering - Manuden - Bishop's Stortford Acme Transport Services



308 Stansted Airport - Bishops Stortford Station - Bishop's Park Arriva Harlow



309 Bishop's Stortford - Stansted Airport Arriva Harlow



The numbers circled indicate approximate timings in minutes from Parsonage Estate, Birchwood High School

Mondays to Fridays Bus times as at 18th April 2016

Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note						
0028	309		0428	309		0558	309		1540	308		1601	306	Sch,W	1928	309		2128	309		2328	309	
0328	309		0458	309		0808	306	B,Sch	1550	20	C	1607	302	Sch	2028	309		2228	309				

Saturdays Bus times as at 23rd April 2016

Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note			
0028	309		0428	309		0558	309		2028	309		2228	309	
0328	309		0458	309		1928	309		2128	309		2328	309	

Sundays Bus times as at 24th April 2016

Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note						
0028	309		0528	309		0828	309		1128	309		1428	309		1728	309		2028	309		2328	309	
0328	309		0628	309		0928	309		1228	309		1528	309		1828	309		2128	309				
0428	309		0728	309		1028	309		1328	309		1628	309		1928	309		2228	309				

Notes: C - Hertfordshire Schooldays only Sch - Schooldays only B - towards Bishop's Stortford W - towards Wicken Bonhunt
 Times shown in italics are approximate times



Next bus times on your phone

the code for this stop is **hrttdtw**

Mobile internet: Use the QR code (left) if you can, or enter the stop code at www.nextbuses.mobi

By SMS: text the stop code to 84268. Add a space and service number for just that service.

Internet enquiries incur normal mobile internet charges. SMS messages cost 25p plus your normal text message charge.

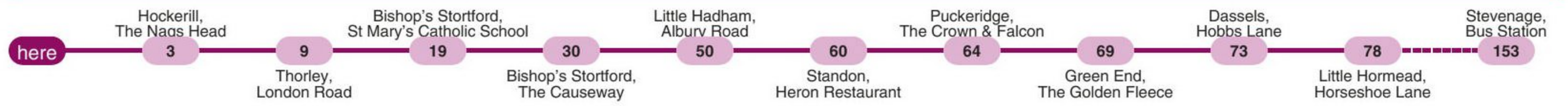
Live Departure information will be given if available (eg 3 mins) - otherwise scheduled times will be shown as clock times (eg 1007).

Bus departures from this stop Parsonage Estate o/s Birchwood High School

351 Bishop's Stortford - Hertford TrustyBus



386 Bishops Stortford - Stevenage Richmonds Coaches



509 Harlow - Sawbridgeworth - Bishop's Stortford - Stansted Airport sxConnect (operated by Arriva)



BST1 Bishop's Stortford H & E Hospital (Circular) Bishop's Stortford Minibus Trust



D Bishop's Stortford - Little Hallingbury - White Roding - High Easter JW Lodge & Sons



The numbers circled indicate approximate timings in minutes from Parsonage Estate, Birchwood High School

Mondays to Fridays Bus times as at 18th April 2016

Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note
0639	509		0835	509	NSch	1011	509		1154	BST1		1354	BST1		1535	D	Sch
0712	509		0854	BST1		1041	509		1211	509		1411	509		1545	386	E
0747	509	Sch	0905	509	Sch	1054	BST1		1241	509		1441	509		1546	509	
0750	509	NSch	0939	509		1111	509		1311	509		1454	BST1		1547	351	1,E
0830	509	Sch	0954	BST1		1141	509		1341	509		1511	509		1550	351	E
															1702	509	NSch
															1735	509	Sch
															1819	509	NSch
															1825	509	Sch
															1842	509	NSch
															1909	509	

Saturdays Bus times as at 23rd April 2016

Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note	Time	Service	Note
0701	509		0901	509		1041	509		1211	509		1341	509		1511	509	
0746	509		0937	509		1111	509		1241	509		1411	509		1541	509	
0825	509		1011	509		1141	509		1311	509		1441	509		1611	509	
															1743	509	
															1819	509	
															1910	509	

Sundays No Service

Notes: E - Hertfordshire Schooldays only NSch - Not Schooldays Sch - Schooldays only 1 - terminates at Hunsdon, The Crown
 Times shown in italics are approximate times



Next bus times on your phone

the code for this stop is **hrttdtw**

Mobile internet: Use the QR code (left) if you can, or enter the stop code at www.nextbuses.mobi

By SMS: text the stop code to 84268. Add a space and service number for just that service.

Internet enquiries incur normal mobile internet charges. SMS messages cost 25p plus your normal text message charge.

Live Departure information will be given if available (eg 3 mins) - otherwise scheduled times will be shown as clock times (eg 1007).

Appendix C: Speed Survey

Technical Note

Job No.:	21195	Date:	16 June 2016
Project:	Bishops Stortford	Note Number:	5010-21214-02
Subject:	Speed Survey	Prepared by:	Mike Brain

Introduction

This Technical Note (TN) summarises the findings of a speed survey undertaken to inform the access arrangements for proposed development at this site.

Methodology

Two Automatic Traffic Counters (ATC) were installed On Manor Links at the locations shown in the plan below for seven days starting on Tuesday 24th May 2016. The full ATC output is provided in appendix a,



Findings

The average 2-way 24 hour 85th percentile speed for the two sites was calculated as follows:

- Site 1: 28 mph
- Site 2: 27 mph

However, it is noted that the southern access is close to the end of the road and as such the speed in a southerly direction may be different to the speed in a northerly direction. The speeds for this site were therefore further broken down into north and southbound as follows:

- Site 2 – Northbound: 25 mph
- Site 2 – Southbound: 28 mph

Site No: 20325001 Grid Reference: TL50468,21404

Site 1, Manor Links, Bishops Stortford (LC 7)

Speed Report-Limit 30 Mph Tue 24-May-16

Channel: Northbound

Weekly 24hr 8th

Time Begin	Total Vol.	85th %ile	Mean Ave.	Std. Dev.	Bin 1 <6Mph	Bin 2 6-<11	Bin 3 11-<16	Bin 4 16-<21	Bin 5 21-<26	Bin 6 26-<31	Bin 7 31-<36	Bin 8 36-<41	Bin 9 41-<46	Bin 10 46-<51	Bin 11 51-<56	Bin 12 =>56
00:00	1	-	23.5	-	0	0	0	0	1	0	0	0	0	0	0	0
01:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
06:00	5	-	22.5	9	0	1	0	1	0	3	0	0	0	0	0	0
07:00	8	-	24.8	4.7	0	0	0	2	2	4	0	0	0	0	0	0
08:00	13	-	29.9	6.5	0	0	2	1	5	3	2	0	0	0	0	0
09:00	11	-	29.6	6.6	0	0	2	1	3	4	1	0	0	0	0	0
10:00	14	-	26.7	5.8	0	1	1	1	8	3	0	0	0	0	0	0
11:00	15	-	25.7	3.8	0	0	1	1	11	2	0	0	0	0	0	0
12:00	7	-	21.4	7.7	0	1	1	0	3	2	0	0	0	0	0	0
13:00	7	-	19.2	6.8	0	1	1	2	2	1	0	0	0	0	0	0
14:00	8	-	24.8	3.8	0	0	0	1	4	3	0	0	0	0	0	0
15:00	4	-	17.6	8.9	1	0	0	0	2	0	0	0	0	0	0	0
16:00	3	-	21.8	3.1	0	0	0	1	2	0	0	0	0	0	0	0
17:00	4	-	24.8	2.8	0	0	0	0	3	1	0	0	0	0	0	0
18:00	8	-	22.3	7.1	0	1	0	2	2	3	0	0	0	0	0	0
19:00	2	-	26	3.5	0	0	0	0	1	1	0	0	0	0	0	0
20:00	3	-	21.8	5.9	0	0	0	2	0	1	0	0	0	0	0	0
21:00	3	-	25.2	7.6	0	0	0	1	1	1	0	1	0	0	0	0
22:00	7	-	22.8	7.4	0	1	0	1	2	3	0	0	0	0	0	0
23:00	3	-	20.2	3.1	0	0	0	2	1	1	0	0	0	0	0	0
12H,7-19	102	-	28.5	22.9	5.9	1	4	8	13	47	26	3	0	0	0	0
16H,6-22	115	-	28.8	22.9	6	1	5	8	17	49	31	4	0	0	0	0
18H,6-24	125	-	28.8	22.9	6	1	6	8	20	52	34	4	0	0	0	0
24H,0-24	126	-	28.7	22.9	6	1	6	8	20	53	34	4	0	0	0	0

Time	Total Vol.	85th %ile	Mean Ave.	Std. Dev.	Bin 1 <6Mph	Bin 2 6-<11	Bin 3 11-<16	Bin 4 16-<21	Bin 5 21-<26	Bin 6 26-<31	Bin 7 31-<36	Bin 8 36-<41	Bin 9 41-<46	Bin 10 46-<51	Bin 11 51-<56	Bin 12 =>56
Am	11:00	-	-	-	0	10:00	09:00	07:00	11:00	09:00	08:00	-	-	-	-	-
Peak	15	-	-	-	1	2	2	2	11	4	2	-	-	-	-	-
Pm	18:00	-	19:00	15:00	15:00	22:00	13:00	23:00	14:00	22:00	21:00	-	-	-	-	-
Peak	8	-	26	8.9	1	1	1	2	4	3	1	-	-	-	-	-

K & M TRAFFIC SURVEYS

Created at 14:54:59 on 8 Jun 2016

Site No: 20325001 Grid Reference: TL50468,21404

Site 1, Manor Links, Bishops Stortford (LC 7)

Speed Report-Limit 30 Mph Wed 25-May-16 Channel: Northbound

Time Begin	Total Vol.	85th %ile	Mean Ave.	Std. Dev.	Bin 1 <6Mph	Bin 2 6-<11	Bin 3 11-<16	Bin 4 16-<21	Bin 5 21-<26	Bin 6 26-<31	Bin 7 31-<36	Bin 8 36-<41	Bin 9 41-<46	Bin 10 46-<51	Bin 11 51-<56	Bin 12 =>56
00:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
02:00	1	-	13.5	-	0	0	0	1	0	0	0	0	0	0	0	0
03:00	1	-	28.5	-	0	0	0	0	0	0	1	0	0	0	0	0
04:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
06:00	6	-	26	3.1	0	0	0	0	0	3	3	0	0	0	0	0
07:00	4	-	24.8	4.9	0	0	0	0	1	1	2	0	0	0	0	0
08:00	9	-	24.1	3.3	0	0	0	0	1	6	2	0	0	0	0	0
09:00	17	28.4	22.3	6.4	0	0	0	4	2	6	4	1	0	0	0	0
10:00	8	-	24.1	4.4	0	0	0	0	2	3	3	0	0	0	0	0
11:00	10	27.7	22.5	6.3	0	0	1	0	2	4	3	0	0	0	0	0
12:00	19	28.2	23.5	4.9	0	0	0	2	2	9	6	0	0	0	0	0
13:00	7	-	23.5	6.5	0	0	0	1	1	3	1	1	0	0	0	0
14:00	10	26	23.5	3.6	0	0	0	0	2	6	2	0	0	0	0	0
15:00	11	27.4	24	3.8	0	0	0	0	2	6	3	0	0	0	0	0
16:00	4	-	22.3	4.9	0	0	0	0	2	1	1	0	0	0	0	0
17:00	10	28.5	22	8.3	0	0	2	0	1	4	2	1	0	0	0	0
18:00	11	29.2	26.2	3	0	0	0	0	0	5	6	0	0	0	0	0
19:00	7	-	24.9	4.9	0	0	0	0	1	4	1	1	0	0	0	0
20:00	3	-	20.2	3.1	0	0	0	0	2	1	0	0	0	0	0	0
21:00	2	-	21	3.5	0	0	0	0	1	1	0	0	0	0	0	0
22:00	4	-	22.3	6.4	0	0	0	1	0	2	1	0	0	0	0	0
23:00	1	-	13.5	-	0	0	0	1	0	0	0	0	0	0	0	0
12H,7-19	120	28.8	23.5	5.2	0	0	3	7	18	54	35	3	0	0	0	0
16H,6-22	138	28.8	23.6	5.1	0	0	3	7	22	63	39	4	0	0	0	0
18H,6-24	143	28.8	23.5	5.2	0	0	3	9	22	65	40	4	0	0	0	0
24H,0-24	145	28.8	23.4	5.2	0	0	3	10	22	65	41	4	0	0	0	0
Am Peak	09:00	-	-	-	-	11:00	09:00	11:00	09:00	09:00	09:00	09:00	-	-	-	-
	17	-	-	-	-	4	4	2	6	4	4	1	-	-	-	-
Pm Peak	12:00	-	18:00	-	-	17:00	12:00	20:00	12:00	18:00	19:00	-	-	-	-	-
	19	-	26.2	-	-	2	2	2	9	6	6	1	-	-	-	-

K & M TRAFFIC SURVEYS Created at 14:54:59 on 8 Jun 2016

Site No: 20325001 Grid Reference: TL50468,21404

Site 1, Manor Links, Bishops Stortford (LC 7)

Speed Report-Limit 30 Mph Thu 26-May-16 Channel: Northbound

Time Begin	Total Vol.	85th %ile	Mean Ave.	Std. Dev.	Bin 1 <6Mph	Bin 2 6-<11	Bin 3 11-<16	Bin 4 16-<21	Bin 5 21-<26	Bin 6 26-<31	Bin 7 31-<36	Bin 8 36-<41	Bin 9 41-<46	Bin 10 46-<51	Bin 11 51-<56	Bin 12 =>56
00:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
04:00	1	-	13.5	-	0	0	1	0	0	0	0	0	0	0	0	0
05:00	1	-	23.5	-	0	0	0	0	1	0	0	0	0	0	0	0
06:00	4	-	27.3	6.4	0	0	0	1	0	2	1	0	0	0	0	0
07:00	4	-	29.8	2.8	0	0	0	0	0	0	3	1	0	0	0	0
08:00	18	27	21.3	6.2	0	1	3	3	7	4	0	0	0	0	0	0
09:00	6	-	21.8	7.6	0	1	0	1	2	2	0	0	0	0	0	0
10:00	11	27.4	22.1	5.7	0	0	2	2	4	3	0	0	0	0	0	0
11:00	15	28.1	23.5	5.8	0	1	0	2	8	3	1	0	0	0	0	0
12:00	12	30.3	23.9	6.4	0	0	0	6	1	3	2	0	0	0	0	0
13:00	7	-	24.9	5.7	0	0	0	2	2	2	1	0	0	0	0	0
14:00	5	-	23.5	1.6	0	0	0	0	5	0	0	0	0	0	0	0
15:00	9	-	17.9	7.8	0	3	0	2	3	1	0	0	0	0	0	0
16:00	11	25.6	18.3	8.8	2	0	3	0	4	2	0	0	0	0	0	0
17:00	7	-	27.8	4.7	0	0	0	0	3	2	2	0	0	0	0	0
18:00	4	-	22.3	6.4	0	0	1	0	2	1	0	0	0	0	0	0
19:00	5	-	23.5	3.7	0	0	0	1	3	1	0	0	0	0	0	0
20:00	5	-	22.5	2.6	0	0	0	1	4	0	0	0	0	0	0	0
21:00	3	-	28.5	1.7	0	0	0	0	0	0	3	0	0	0	0	0
22:00	1	-	23.5	-	0	0	0	0	1	1	0	0	0	0	0	0
23:00	2	-	23.5	7.1	0	0	0	1	0	0	1	0	0	0	0	0
12H,7-19	109	29.1	22.5	6.7	2	6	9	18	41	26	7	0	0	0	0	0
16H,6-22	126	29.2	22.8	6.5	2	6	9	21	48	32	8	0	0	0	0	0
18H,6-24	129	29.2	22.9	6.4	2	6	9	22	49	33	8	0	0	0	0	0
24H,0-24	131	29.2	22.8	6.5	2	6	10	22	50	33	8	0	0	0	0	0
Am Peak	08:00	-	-	-	-	11:00	08:00	08:00	11:00	08:00	11:00	11:00	-	-	-	-
	18	-	-	-	-	1	3	3	8	4	4	1	-	-	-	-
Pm Peak	12:00	-	21:00	-	16:00	15:00	16:00	12:00	14:00	21:00	17:00	-	-	-	-	-
	12	-	28.5	-	2	3	3	6	5	3	2	-	-	-	-	-

K & M TRAFFIC SURVEYS

Created at 14:54:59 on 8 Jun 2016

Site No: 20325001 Grid Reference: TL50468,21404

Site 1, Manor Links, Bishops Stortford (LC 7)

Speed Report-Limit 30 Mph Fri 27-May-16 Channel: Northbound

Time Begin	Total Vol.	85th %ile	Mean Ave.	Std. Dev.	Bin 1 <6Mph	Bin 2 6-<11	Bin 3 11-<16	Bin 4 16-<21	Bin 5 21-<26	Bin 6 26-<31	Bin 7 31-<36	Bin 8 36-<41	Bin 9 41-<46	Bin 10 46-<51	Bin 11 51-<56	Bin 12 =>56
00:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
03:00	1	-	28.5	-	0	0	0	0	0	1	0	0	0	0	0	0
04:00	1	-	23.5	-	0	0	0	0	1	0	0	0	0	0	0	0
05:00	1	-	28.5	-	0	0	0	0	0	1	0	0	0	0	0	0
06:00	2	-	28.5	1.8	0	0	0	0	0	0	2	0	0	0	0	0
07:00	6	-	26.8	3	0	0	0	0	2	4	0	0	0	0	0	0
08:00	11	25	20.8	5.3	0	0	3	1	6	1	0	0	0	0	0	0
09:00	13	29.6	26.6	3.5	0	0	0	1	3	9	0	0	0	0	0	0
10:00	10	28.5	25	6	0	0	0	2	5	2	0	1	0	0	0	0
11:00	12	27.2	24.3	3.2	0	0	0	1	8	3	0	0	0	0	0	0
12:00	11	27.4	22.1	5.2	0	0	1	4	3	3	0	0	0	0	0	0
13:00	4	-	26	3.2	0	0	0	0	2	2	0	0	0	0	0	0
14:00	12	25.3	21	4.7	0	0	1	6	3	2	0	0	0	0	0	0
15:00	5	-	17.5	2.6	0	0	1	4	0	0	0	0	0	0	0	0
16:00	5	-	22.5	4.4	0	0	0	2	2	1	0	0	0	0	0	0
17:00	11	25.6	21.7	5.3	0	0	2	2	5	2	0	0	0	0	0	0
18:00	5	-	22.5	2.6	0	0	0	1	4	0	0	0	0	0	0	0
19:00	4	-	23.5	4.2	0	0	0	1	2	1	0	0	0	0	0	0
20:00	5	-	26.5	3.1	0	0	0	0	2	3	0	0	0	0	0	0
21:00	3	-	20.2	10.4	0	1	0	0	1	1	1	0	0	0	0	0
22:00	2	-	23.5	7.1	0	0	0	0	1	0	1	0	0	0	0	0
23:00	1	-	13.5	-	0	0	0	1	0	0	0	0	0	0	0	0
12H,7-19	105	28.4	23.1	5	0	0	8	24	43	29	0	1	0	0	0	0
16H,6-22	119	28.6	23.3	5.1	0	1	8	25	48	36	0	1	0	0	0	0
18H,6-24	122	28.6	23.2	5.1	0	1	9	26	48	37	0	1	0	0	0	0
24H,0-24	125	28.7	23.3	5.1	0	1	9	26	49	39	0	1	0	0	0	0
Am Peak	09:00	-	-	-	-	-	08:00	10:00	11:00	09:00	-	10:00	-	-	-	-
	13	-	-	-	-	-	3	2	8	9	-	1	-	-	-	-
Pm Peak	14:00	-	20:00	-	-	21:00	17:00	14:00	17:00	20:00	-	-	-	-	-	-
	12	-	26.5	-	-	1	2	6	5	3	-	-	-	-	-	-

K & M TRAFFIC SURVEYS Created at 14:54:59 on 8 Jun 2016

Site No: 20325001 Grid Reference: TL50468,21404

Site 1, Manor Links, Bishops Stortford (LC7)

Speed Report-Limit 30 Mph Sat 28-May-16

Channel: Northbound

Time Begin	Total Vol.	85th %ile	Mean Ave.	Std. Dev.	Bin 1 <6Mph	Bin 2 6-<11	Bin 3 11-<16	Bin 4 16-<21	Bin 5 21-<26	Bin 6 26-<31	Bin 7 31-<36	Bin 8 36-<41	Bin 9 41-<46	Bin 10 46-<51	Bin 11 51-<56	Bin 12 =>56
00:00	1	-	18.5	-	0	0	0	0	1	0	0	0	0	0	0	0
01:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
02:00	1	-	8.5	-	0	1	0	0	0	0	0	0	0	0	0	0
03:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
04:00	1	-	13.5	-	0	0	1	0	0	0	0	0	0	0	0	0
05:00	1	-	18.5	-	0	0	0	1	0	0	0	0	0	0	0	0
06:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
07:00	4	-	24.8	4.9	0	0	0	1	1	2	0	0	0	0	0	0
08:00	7	-	26.4	3.1	0	0	0	0	3	4	0	0	0	0	0	0
09:00	18	29.5	23.5	6.6	0	1	1	3	7	4	2	0	0	0	0	0
10:00	10	28.5	23.5	6.4	0	1	0	1	4	4	0	0	0	0	0	0
11:00	5	-	21.8	10.5	1	0	0	1	0	3	0	0	0	0	0	0
12:00	7	-	24.2	3.7	0	0	0	1	4	2	0	0	0	0	0	0
13:00	11	28.3	23	6.3	0	1	0	2	4	4	0	0	0	0	0	0
14:00	6	-	18.5	9.6	0	2	1	0	1	2	0	0	0	0	0	0
15:00	5	-	23.5	3.7	0	0	0	1	3	1	0	0	0	0	0	0
16:00	4	-	21	3.2	0	0	0	2	2	0	0	0	0	0	0	0
17:00	5	-	23.5	3.7	0	0	0	1	3	1	0	0	0	0	0	0
18:00	6	-	24.3	4	0	0	0	1	3	2	0	0	0	0	0	0
19:00	2	-	23.5	1.8	0	0	0	0	2	0	0	0	0	0	0	0
20:00	8	-	24.8	3.8	0	0	0	1	4	3	0	0	0	0	0	0
21:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
22:00	2	-	28.5	1.8	0	0	0	0	0	2	0	0	0	0	0	0
23:00	4	-	24.8	2.8	0	0	0	0	3	1	0	0	0	0	0	0
12H,7-19	88	29	23.3	6	1	5	2	14	35	29	2	0	0	0	0	0
16H,6-22	98	28.9	23.4	5.8	1	5	2	15	41	32	2	0	0	0	0	0
18H,6-24	104	29	23.6	5.7	1	5	2	15	44	35	2	0	0	0	0	0
24H,0-24	108	28.9	23.2	5.9	1	6	3	17	44	35	2	0	0	0	0	0
Am	09:00	-	-	-	11:00	10:00	09:00	09:00	09:00	10:00	09:00	09:00	09:00	-	-	-
Peak	18	-	-	-	1	1	1	3	7	4	2	-	-	-	-	-
Pm	13:00	-	-	-	14:00	14:00	16:00	20:00	13:00	-	-	-	-	-	-	-
Peak	11	-	-	-	2	1	2	4	4	-	-	-	-	-	-	-

K & M TRAFFIC SURVEYS

Created at 14:54:59 on 8 Jun 2016

Site No: 20325001 Grid Reference: TL50468,21404

Site 1, Manor Links, Bishops Stortford (LC 7)

Speed Report-Limit: 30 Mph Sun 29-May-16 Channel: Northbound

Time Begin	Total Vol.	85th %ile	Mean Ave.	Std. Dev.	Bin 1 <6Mph	Bin 2 6-<11	Bin 3 11-<16	Bin 4 16-<21	Bin 5 21-<26	Bin 6 26-<31	Bin 7 31-<36	Bin 8 36-<41	Bin 9 41-<46	Bin 10 46-<51	Bin 11 51-<56	Bin 12 =>56
00:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
06:00	3	-	28.5	5	0	0	0	0	1	1	1	0	0	0	0	0
07:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
08:00	2	-	28.5	1.8	0	0	0	0	0	2	0	0	0	0	0	0
09:00	11	30.3	24.9	7.6	0	0	2	0	5	2	1	1	1	0	0	0
10:00	4	-	27.3	2.8	0	0	0	0	1	3	0	0	0	0	0	0
11:00	9	-	25.2	2.9	0	0	0	0	6	3	0	0	0	0	0	0
12:00	7	-	25.6	4.2	0	0	0	1	2	4	0	0	0	0	0	0
13:00	4	-	21	3.2	0	0	0	2	2	0	0	0	0	0	0	0
14:00	2	-	23.5	7.1	0	0	0	1	0	1	0	0	0	0	0	0
15:00	4	-	22.3	6.4	0	0	1	0	2	1	0	0	0	0	0	0
16:00	2	-	23.5	7.1	0	0	0	1	0	1	0	0	0	0	0	0
17:00	4	-	23.5	1.6	0	0	0	0	4	4	0	0	0	0	0	0
18:00	3	-	21.8	3.1	0	0	0	1	2	2	0	0	0	0	0	0
19:00	1	-	28.5	-	0	0	0	0	0	1	0	0	0	0	0	0
20:00	3	-	23.5	5	0	0	0	1	1	1	0	0	0	0	0	0
21:00	2	-	23.5	1.8	0	0	0	0	2	2	0	0	0	0	0	0
22:00	2	-	23.5	1.8	0	0	0	0	2	2	0	0	0	0	0	0
23:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
12H,7-19	52	29.1	24.5	5	0	0	3	6	24	17	1	1	1	0	0	0
16H,6-22	61	29.3	24.6	4.9	0	0	3	7	28	20	2	2	1	0	0	0
18H,6-24	63	29.3	24.6	4.8	0	0	3	7	30	20	2	2	1	0	0	0
24H,0-24	63	29.3	24.6	4.8	0	0	3	7	30	20	2	2	1	0	0	0
Am Peak	09:00	-	-	-	-	-	09:00	-	11:00	11:00	09:00	09:00	09:00	-	-	-
	11	-	-	-	-	-	2	-	6	3	1	1	1	-	-	-
Pm Peak	12:00	-	-	-	-	-	15:00	13:00	17:00	12:00	-	-	-	-	-	-
	7	-	-	-	-	-	1	2	4	4	-	-	-	-	-	-

K & M TRAFFIC SURVEYS Created at 14:54:59 on 8 Jun 2016

Site No: 20325001 Grid Reference: TL50468,21404

Site 1, Manor Links, Bishops Stortford (LC 7)

Speed Report-Limit 30 Mph Mon 30-May-16 Channel: Northbound

Time	Total	85th	Mean	Std.	Bin 1	Bin 2	Bin 3	Bin 4	Bin 5	Bin 6	Bin 7	Bin 8	Bin 9	Bin 10	Bin 11	Bin 12
Begin	Vol.	%ile	Ave.	Dev.	<6Mph	6-<11	11-<16	16-<21	21-<26	26-<31	31-<36	36-<41	41-<46	46-<51	51-<56	=>56
00:00	1	-	23.5	-	0	0	0	0	0	1	0	0	0	0	0	0
01:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
02:00	2	-	16	3.5	0	1	0	0	0	0	0	0	0	0	0	0
03:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
04:00	1	-	18.5	-	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
06:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
07:00	2	-	23.5	1.8	0	0	0	0	0	2	0	0	0	0	0	0
08:00	3	-	26.8	3.1	0	0	0	0	0	1	2	0	0	0	0	0
09:00	7	-	22.1	8.1	0	1	1	0	0	2	3	0	0	0	0	0
10:00	12	-	28.1	24.3	0	0	0	0	2	6	4	0	0	0	0	0
11:00	2	-	26	3.5	0	0	0	0	0	1	1	0	0	0	0	0
12:00	6	-	21.8	8.3	0	1	0	0	2	0	3	0	0	0	0	0
13:00	3	-	20.2	7.6	0	0	1	1	0	0	1	0	0	0	0	0
14:00	11	-	20.6	17.1	0	2	1	6	2	2	0	0	0	0	0	0
15:00	1	-	18.5	-	0	0	0	0	1	0	0	0	0	0	0	0
16:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
17:00	10	-	28.5	25.5	3	0	0	0	0	6	4	0	0	0	0	0
18:00	4	-	26	3.2	0	0	0	0	0	2	2	0	0	0	0	0
19:00	2	-	21	3.5	0	0	0	0	1	1	0	0	0	0	0	0
20:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
21:00	1	-	28.5	-	0	0	0	0	0	0	1	0	0	0	0	0
22:00	1	-	13.5	-	0	0	0	1	0	0	0	0	0	0	0	0
23:00	1	-	28.5	-	0	0	0	0	0	0	1	0	0	0	0	0
12H,7-19	61	-	28.6	22.7	5.9	0	4	3	12	22	20	0	0	0	0	0
16H,6-22	64	-	28.6	22.7	5.8	0	4	3	13	23	21	0	0	0	0	0
18H,6-24	66	-	28.6	22.7	5.9	0	4	4	13	23	22	0	0	0	0	0
24H,0-24	70	-	28.5	22.4	5.9	0	4	5	15	24	22	0	0	0	0	0
Am	10:00	-	-	-	-	09:00	09:00	10:00	10:00	10:00	10:00	-	-	-	-	-
Peak	12	-	-	-	-	1	1	2	6	4	-	-	-	-	-	-
Pm	14:00	-	-	-	-	14:00	22:00	14:00	17:00	17:00	-	-	-	-	-	-
Peak	11	-	-	-	-	2	1	6	6	4	-	-	-	-	-	-

K & M TRAFFIC SURVEYS Created at 14:54:59 on 8 Jun 2016

Site No: 20325001 Grid Reference: TL50468,21404

Site 1, Manor Links, Bishops Stortford (LC 7)

Speed Report-Limit 30 Mph Tue 24-May-16 Channel: Southbound

Time Begin	Total Vol.	85th %ile	Mean Ave.	Std. Dev.	Bin 1 <6Mph	Bin 2 6-<11	Bin 3 11-<16	Bin 4 16-<21	Bin 5 21-<26	Bin 6 26-<31	Bin 7 31-<36	Bin 8 36-<41	Bin 9 41-<46	Bin 10 46-<51	Bin 11 51-<56	Bin 12 =>56
00:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
06:00	2	-	23.5	1.8	0	0	0	0	2	0	0	0	0	0	0	0
07:00	6	-	22.7	4	0	0	0	2	3	1	0	0	0	0	0	0
08:00	2	-	23.5	1.8	0	0	0	0	0	2	0	0	0	0	0	0
09:00	10	-	28.5	24	0	0	0	3	3	4	0	0	0	0	0	0
10:00	14	-	25.6	21.4	0	1	1	3	7	2	0	0	0	0	0	0
11:00	13	-	25	22	0	0	0	5	7	1	0	0	0	0	0	0
12:00	5	-	21.5	4.6	0	0	0	3	1	1	0	0	0	0	0	0
13:00	7	-	20.6	3.1	0	0	0	4	3	0	0	0	0	0	0	0
14:00	5	-	23.5	1.6	0	0	0	0	5	0	0	0	0	0	0	0
15:00	8	-	19.8	5.4	0	1	0	3	4	0	0	0	0	0	0	0
16:00	8	-	20.4	5.5	0	0	2	2	3	1	0	0	0	0	0	0
17:00	10	-	29.3	22.6	8.5	1	1	2	0	6	0	0	0	0	0	0
18:00	10	-	26	23.5	4.3	0	1	0	7	2	0	0	0	0	0	0
19:00	9	-	22.4	3.6	0	0	0	3	5	1	0	0	0	0	0	0
20:00	7	-	21.4	6.5	0	1	0	1	4	1	0	0	0	0	0	0
21:00	2	-	23.5	7.1	0	0	0	1	0	1	0	0	0	0	0	0
22:00	2	-	23.5	1.8	0	0	0	0	2	0	0	0	0	0	0	0
23:00	4	-	23.5	6	0	0	0	2	0	2	0	0	0	0	0	0
12H,7-19	98	-	26.8	22	5	1	2	5	27	45	18	0	0	0	0	0
16H,6-22	118	-	26.7	22.1	4.9	1	3	5	32	56	21	0	0	0	0	0
18H,6-24	124	-	26.8	22.1	4.9	1	3	5	34	58	23	0	0	0	0	0
24H,0-24	124	-	26.8	22.1	4.9	1	3	5	34	58	23	0	0	0	0	0
Am	10:00	-	-	-	-	10:00	10:00	11:00	11:00	09:00	-	-	-	-	-	-
Peak	14	-	-	-	-	1	1	5	7	4	-	-	-	-	-	-
Pm	18:00	-	14:00	17:00	17:00	20:00	16:00	13:00	18:00	17:00	-	-	-	-	-	-
Peak	10	-	23.5	8.5	1	1	2	4	7	6	-	-	-	-	-	-

K & M TRAFFIC SURVEYS Created at 14:54:59 on 8 Jun 2016

Site No: 20325001 Grid Reference: TL50468,21404

Site 1, Manor Links, Bishops Stortford (LC 7)

Speed Report-Limit: 30 Mph Wed 25-May-16 Channel: Southbound

Time Begin	Total Vol.	85th %ile	Mean Ave.	Std. Dev.	Bin 1 <6Mph	Bin 2 6-<11	Bin 3 11-<16	Bin 4 16-<21	Bin 5 21-<26	Bin 6 26-<31	Bin 7 31-<36	Bin 8 36-<41	Bin 9 41-<46	Bin 10 46-<51	Bin 11 51-<56	Bin 12 =>56
00:00	1	-	18.5	-	0	0	0	0	1	0	0	0	0	0	0	0
01:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
02:00	1	-	23.5	-	0	0	0	0	1	0	0	0	0	0	0	0
03:00	1	-	23.5	-	0	0	0	0	1	0	0	0	0	0	0	0
04:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
06:00	3	-	18.5	8.8	0	1	0	0	2	0	0	0	0	0	0	0
07:00	4	-	22.3	6.4	0	0	1	0	2	1	0	0	0	0	0	0
08:00	6	-	19.3	4	0	0	1	3	2	0	0	0	0	0	0	0
09:00	9	-	20.2	5.2	0	0	2	3	3	1	0	0	0	0	0	0
10:00	7	-	22.8	5.5	0	0	1	1	3	2	0	0	0	0	0	0
11:00	13	-	24.9	4	0	0	0	6	5	2	0	0	0	0	0	0
12:00	11	-	24.6	3.7	0	0	0	6	4	1	0	0	0	0	0	0
13:00	11	-	25.6	4.7	0	0	1	3	5	2	0	0	0	0	0	0
14:00	11	-	28.1	24	0	0	1	1	6	2	1	0	0	0	0	0
15:00	14	-	25.6	21.8	5.9	1	0	3	8	2	0	0	0	0	0	0
16:00	8	-	21.6	4.7	0	0	1	2	4	1	0	0	0	0	0	0
17:00	11	-	25	21.2	4.9	0	2	2	6	1	0	0	0	0	0	0
18:00	11	-	28.9	4.6	0	0	0	3	3	5	0	0	0	0	0	0
19:00	6	-	23.5	4.7	0	0	0	2	2	2	0	0	0	0	0	0
20:00	9	-	25.2	3.8	0	0	0	1	4	4	0	0	0	0	0	0
21:00	4	-	22.3	2.8	0	0	0	1	3	0	0	0	0	0	0	0
22:00	4	-	23.5	1.6	0	0	0	0	4	0	0	0	0	0	0	0
23:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
12H,7-19	116	26.8	22	4.9	1	0	10	33	51	20	1	0	0	0	0	0
16H,6-22	138	27.1	22.2	4.9	1	1	10	37	62	26	1	0	0	0	0	0
18H,6-24	142	27	22.2	4.8	1	1	10	37	66	26	1	0	0	0	0	0
24H,0-24	145	26.9	22.2	4.8	1	1	10	38	68	26	1	0	0	0	0	0
Am Peak	11:00	-	-	-	06:00	09:00	11:00	11:00	11:00	11:00	11:00	-	-	-	-	-
	13	-	-	-	1	2	6	5	2	-	-	-	-	-	-	-
Pm Peak	15:00	-	-	-	15:00	17:00	12:00	15:00	18:00	14:00	-	-	-	-	-	-
	14	-	-	-	1	2	6	8	5	1	-	-	-	-	-	-

K & M TRAFFIC SURVEYS Created at 14:54:59 on 8 Jun 2016

Site No: 20325001 Grid Reference: TL50468,21404

Site 1, Manor Links, Bishops Stortford (LC 7)

Speed Report-Limit: 30 Mph Thu 26-May-16 Channel: Southbound

Time Begin	Total Vol.	85th %ile	Mean Ave.	Std. Dev.	Bin 1 <6Mph	Bin 2 6-<11	Bin 3 11-<16	Bin 4 16-<21	Bin 5 21-<26	Bin 6 26-<31	Bin 7 31-<36	Bin 8 36-<41	Bin 9 41-<46	Bin 10 46-<51	Bin 11 51-<56	Bin 12 =>56
00:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
06:00	2	-	21	3.5	0	0	0	1	1	1	0	0	0	0	0	0
07:00	7	-	20.6	5.8	0	0	2	1	3	1	0	0	0	0	0	0
08:00	4	-	21	3.2	0	0	0	2	2	0	0	0	0	0	0	0
09:00	6	-	17.1	7.2	1	0	1	2	2	0	0	0	0	0	0	0
10:00	11	-	27.4	22.6	5.1	0	1	3	4	3	0	0	0	0	0	0
11:00	11	-	24.8	22.6	2.5	0	0	2	9	0	0	0	0	0	0	0
12:00	12	-	28.1	23.5	5	0	1	2	5	4	0	0	0	0	0	0
13:00	8	-	19.8	6	0	0	3	1	3	1	0	0	0	0	0	0
14:00	9	-	21.3	8	0	1	2	1	1	4	0	0	0	0	0	0
15:00	13	-	24.9	20.8	5	0	2	5	4	2	0	0	0	0	0	0
16:00	15	-	29.3	23.3	8	1	1	0	4	8	0	0	0	0	0	0
17:00	10	-	26	23.5	3.6	0	0	2	6	2	0	0	0	0	0	0
18:00	9	-	23.5	3.8	0	0	0	2	5	2	0	0	0	0	0	0
19:00	7	-	19.9	4	0	0	1	3	3	0	0	0	0	0	0	0
20:00	4	-	21	5.2	0	0	1	0	3	0	0	0	0	0	0	0
21:00	3	-	18.5	5	0	0	1	1	1	1	0	0	0	0	0	0
22:00	3	-	23.5	5	0	0	0	1	1	1	1	0	0	0	0	0
23:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
12H,7-19	115	-	27.7	22	5.7	2	13	23	48	27	0	0	0	0	0	0
16H,6-22	131	-	27.3	21.7	5.5	2	16	28	56	27	0	0	0	0	0	0
18H,6-24	134	-	27.3	21.8	5.5	2	16	29	57	28	0	0	0	0	0	0
24H,0-24	134	-	27.3	21.8	5.5	2	16	29	57	28	0	0	0	0	0	0
Am	11:00	-	-	-	09:00	-	07:00	10:00	11:00	10:00	-	-	-	-	-	-
Peak	11	-	-	-	1	-	2	3	9	3	-	-	-	-	-	-
Pm	16:00	-	-	-	16:00	16:00	13:00	15:00	17:00	16:00	-	-	-	-	-	-
Peak	15	-	-	-	1	1	3	5	6	8	-	-	-	-	-	-

K & M TRAFFIC SURVEYS

Created at 14:54:59 on 8 Jun 2016

Site No: 20325001 Grid Reference: TL50468,21404

Site 1, Manor Links, Bishops Stortford (LC 7)

Speed Report-Limit: 30 Mph Fri 27-May-16 Channel: Southbound

Time Begin	Total Vol.	85th %ile	Mean Ave.	Std. Dev.	Bin 1 <6Mph	Bin 2 6-<11	Bin 3 11-<16	Bin 4 16-<21	Bin 5 21-<26	Bin 6 26-<31	Bin 7 31-<36	Bin 8 36-<41	Bin 9 41-<46	Bin 10 46-<51	Bin 11 51-<56	Bin 12 =>56
00:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
03:00	1	-	18.5	-	0	0	0	1	0	0	0	0	0	0	0	0
04:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
05:00	1	-	33.5	-	0	0	0	0	0	0	0	1	0	0	0	0
06:00	1	-	23.5	-	0	0	0	0	0	1	0	0	0	0	0	0
07:00	4	-	18.5	8.2	0	1	0	2	0	0	1	0	0	0	0	0
08:00	3	-	21.8	3.1	0	0	0	1	2	0	0	0	0	0	0	0
09:00	11	28.3	23.5	5.2	0	0	1	2	4	4	0	0	0	0	0	0
10:00	8	-	24.8	2.7	0	0	0	0	6	2	0	0	0	0	0	0
11:00	12	24.7	21	4.2	0	0	1	5	5	1	0	0	0	0	0	0
12:00	12	27.2	22.3	5.9	0	1	0	3	5	3	0	0	0	0	0	0
13:00	7	-	22.8	5.5	0	0	1	3	2	0	0	0	0	0	0	0
14:00	13	24.6	19.7	5.6	0	1	2	4	5	1	0	0	0	0	0	0
15:00	12	22.8	17.3	5.8	0	1	5	3	2	1	0	0	0	0	0	0
16:00	12	28.1	21.4	7	0	1	2	2	3	4	0	0	0	0	0	0
17:00	16	26.2	21.1	6.8	1	1	0	4	7	3	0	0	0	0	0	0
18:00	10	25.4	23.5	2.7	0	0	0	1	8	1	0	0	0	0	0	0
19:00	8	-	23.5	4.8	0	0	1	0	5	2	0	0	0	0	0	0
20:00	4	-	23.5	4.2	0	0	0	1	2	1	0	0	0	0	0	0
21:00	2	-	18.5	1.8	0	0	0	2	0	0	0	0	0	0	0	0
22:00	1	-	23.5	-	0	0	0	0	1	0	0	0	0	0	0	0
23:00	1	-	28.5	-	0	0	0	0	0	0	1	0	0	0	0	0
12H,7-19	120	27	21.4	5.7	1	6	12	28	50	23	0	0	0	0	0	0
16H,6-22	135	27	21.5	5.6	1	6	13	31	58	26	0	0	0	0	0	0
18H,6-24	137	27.1	21.6	5.6	1	6	13	31	59	27	0	0	0	0	0	0
24H,0-24	139	27.2	21.7	5.6	1	6	13	32	59	27	1	0	0	0	0	0
Am	11:00	-	-	-	-	07:00	11:00	11:00	10:00	09:00	05:00	-	-	-	-	-
Peak	12	-	-	-	1	1	1	5	6	4	1	-	-	-	-	-
Pm	17:00	-	23:00	-	17:00	15:00	17:00	18:00	16:00	-	-	-	-	-	-	-
Peak	16	-	28.5	-	1	1	5	4	8	4	-	-	-	-	-	-

K & M TRAFFIC SURVEYS Created at 14:54:59 on 8 Jun 2016

Site No: 20325001 Grid Reference: TL50468,21404

Site 1, Manor Links, Bishops Stortford (LC7)

Speed Report-Limit 30 Mph Sat 28-May-16 Channel: Southbound

Time	Total	85th	Mean	Std.	Bin 1	Bin 2	Bin 3	Bin 4	Bin 5	Bin 6	Bin 7	Bin 8	Bin 9	Bin 10	Bin 11	Bin 12
Begin	Vol.	%ile	Ave.	Dev.	<6Mph	6-<11	11-<16	16-<21	21-<26	26-<31	31-<36	36-<41	41-<46	46-<51	51-<56	=>56
00:00	3	-	23.5	1.7	0	0	0	0	0	3	0	0	0	0	0	0
01:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
06:00	1	-	13.5	-	0	0	1	0	0	0	0	0	0	0	0	0
07:00	4	-	18.5	4.2	0	0	1	2	1	0	0	0	0	0	0	0
08:00	2	-	18.5	7.1	0	0	1	0	1	0	0	0	0	0	0	0
09:00	10	29	25	4.4	0	0	0	2	3	5	0	0	0	0	0	0
10:00	8	-	25.4	4	0	0	0	1	3	4	0	0	0	0	0	0
11:00	4	-	23.5	1.6	0	0	0	0	4	0	0	0	0	0	0	0
12:00	12	28.8	24.3	4.9	0	0	0	3	5	3	1	0	0	0	0	0
13:00	9	-	20.3	7.3	1	0	0	4	2	2	0	0	0	0	0	0
14:00	7	-	19.2	8	0	2	0	1	3	1	0	0	0	0	0	0
15:00	10	27.7	23.5	4.9	0	0	1	1	5	3	0	0	0	0	0	0
16:00	4	-	21	6.5	0	0	0	1	1	1	1	0	0	0	0	0
17:00	8	-	23.5	4	0	0	0	2	4	4	2	0	0	0	0	0
18:00	6	-	24.3	4	0	0	0	1	3	2	2	0	0	0	0	0
19:00	7	-	24.9	4	0	0	0	1	3	3	3	0	0	0	0	0
20:00	3	-	25.2	3.1	0	0	0	0	2	1	0	0	0	0	0	0
21:00	2	-	23.5	1.8	0	0	0	0	2	2	0	0	0	0	0	0
22:00	3	-	23.5	5	0	0	0	1	1	1	1	0	0	0	0	0
23:00	3	-	20.2	3.1	0	0	0	2	1	1	0	0	0	0	0	0
12H,7-19	84	28.4	22.9	5.4	1	2	4	18	35	23	1	0	0	0	0	0
16H,6-22	97	28.4	23	5.3	1	2	5	19	42	27	1	0	0	0	0	0
18H,6-24	103	28.3	22.9	5.3	1	2	5	22	44	28	1	0	0	0	0	0
24H,0-24	106	28.3	22.9	5.2	1	2	5	22	47	28	1	0	0	0	0	0
Am	09:00	-	-	-	-	-	08:00	09:00	11:00	09:00	-	-	-	-	-	-
Peak	10	-	-	-	-	-	1	2	4	5	-	-	-	-	-	-
Pm	12:00	-	20:00	14:00	13:00	14:00	16:00	13:00	15:00	19:00	12:00	-	-	-	-	-
Peak	12	-	25.2	8	1	2	1	4	5	3	1	-	-	-	-	-

K & M TRAFFIC SURVEYS Created at 14:54:59 on 8 Jun 2016

Site No: 20325001 Grid Reference: TL50468,21404

Site 1, Manor Links, Bishops Stortford (LC 7)

Speed Report-Limit: 30 Mph Sun 29-May-16 Channel: Southbound

Time Begin	Total Vol.	85th %ile	Mean Ave.	Std. Dev.	Bin 1 <6Mph	Bin 2 6-<11	Bin 3 11-<16	Bin 4 16-<21	Bin 5 21-<26	Bin 6 26-<31	Bin 7 31-<36	Bin 8 36-<41	Bin 9 41-<46	Bin 10 46-<51	Bin 11 51-<56	Bin 12 =>56
00:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
06:00	2	-	28.5	1.8	0	0	0	0	0	2	0	0	0	0	0	0
07:00	2	-	18.5	1.8	0	0	0	2	0	0	0	0	0	0	0	0
08:00	1	-	23.5	-	0	0	0	0	1	0	0	0	0	0	0	0
09:00	5	-	24.5	6.6	0	0	0	2	1	1	1	0	0	0	0	0
10:00	4	-	23.5	1.6	0	0	0	0	4	0	0	0	0	0	0	0
11:00	10	25.3	22	5.4	0	1	0	1	7	1	0	0	0	0	0	0
12:00	9	-	23.5	3.8	0	0	0	2	5	2	0	0	0	0	0	0
13:00	7	-	21.4	6.5	0	1	0	1	4	1	0	0	0	0	0	0
14:00	3	-	25.2	3.1	0	0	0	0	2	1	0	0	0	0	0	0
15:00	8	-	22.3	6	0	0	1	2	4	0	1	0	0	0	0	0
16:00	3	-	20.2	3.1	0	0	0	2	1	0	0	0	0	0	0	0
17:00	6	-	20.2	4.3	0	0	1	2	3	0	0	0	0	0	0	0
18:00	6	-	21	5.4	0	0	1	2	2	1	0	0	0	0	0	0
19:00	1	-	18.5	-	0	0	0	1	0	0	0	0	0	0	0	0
20:00	1	-	23.5	-	0	0	0	0	1	0	0	0	0	0	0	0
21:00	2	-	23.5	1.8	0	0	0	0	2	0	0	0	0	0	0	0
22:00	3	-	23.5	1.7	0	0	0	0	3	0	0	0	0	0	0	0
23:00	1	-	28.5	-	0	0	0	0	0	1	0	0	0	0	0	0
12H,7-19	64	25.8	22.2	4.9	0	2	3	16	34	7	2	0	0	0	0	0
16H,6-22	70	26	22.4	4.9	0	2	3	17	37	9	2	0	0	0	0	0
18H,6-24	74	26.2	22.5	4.8	0	2	3	17	40	10	2	0	0	0	0	0
24H,0-24	74	26.2	22.5	4.8	0	2	3	17	40	10	2	0	0	0	0	0
Am Peak	11:00 - 10	-	-	-	-	11:00 - 1	09:00 - 2	11:00 - 7	06:00 - 2	09:00 - 1	09:00 - 1	-	-	-	-	-
Pm Peak	12:00 - 9	-	23:00 - 28.5	-	-	13:00 - 1	18:00 - 1	12:00 - 5	12:00 - 2	12:00 - 2	15:00 - 1	-	-	-	-	-

K & M TRAFFIC SURVEYS Created at 14:54:59 on 8 Jun 2016

Site No: 20325001
 Site 1, Manor Links, Bishops Stortford (LC 7)
 Speed Report-Limit: 30 Mph Mon 30-May-16

Grid Reference: TL50468,21404
 Channel: Southbound

Time Begin	Total Vol.	85th %ile	Mean Ave.	Std. Dev.	Bin 1 <6Mph	Bin 2 6-<11	Bin 3 11-<16	Bin 4 16-<21	Bin 5 21-<26	Bin 6 26-<31	Bin 7 31-<36	Bin 8 36-<41	Bin 9 41-<46	Bin 10 46-<51	Bin 11 51-<56	Bin 12 =>56
00:00	1	-	23.5	-	0	0	0	0	0	1	0	0	0	0	0	0
01:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
02:00	2	-	16	3.5	0	1	0	0	0	0	0	0	0	0	0	0
03:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
06:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
07:00	1	-	23.5	-	0	0	0	0	0	1	0	0	0	0	0	0
08:00	1	-	18.5	-	0	0	0	0	1	0	0	0	0	0	0	0
09:00	3	-	21.8	3.1	0	0	0	0	1	2	0	0	0	0	0	0
10:00	2	-	16	3.5	0	1	1	1	1	0	0	0	0	0	0	0
11:00	8	-	22.3	4.6	0	1	1	1	5	1	0	0	0	0	0	0
12:00	9	-	19.6	7.5	0	2	0	3	2	2	0	0	0	0	0	0
13:00	1	-	23.5	-	0	0	0	0	0	1	0	0	0	0	0	0
14:00	7	-	19.2	3.7	0	0	0	1	4	2	0	0	0	0	0	0
15:00	3	-	21.8	3.1	0	0	0	0	1	2	0	0	0	0	0	0
16:00	10	24	20.5	3.8	0	0	0	1	4	5	0	0	0	0	0	0
17:00	9	-	25.2	3.8	0	0	0	0	1	4	4	0	0	0	0	0
18:00	6	-	22.7	7.5	0	1	0	0	0	3	2	0	0	0	0	0
19:00	3	-	18.5	1.7	0	0	0	0	3	0	0	0	0	0	0	0
20:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
21:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
22:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
23:00	1	-	18.5	-	0	0	0	0	1	0	0	0	0	0	0	0
12H,7-19	60	25.7	21.4	5.2	0	3	4	17	27	27	9	0	0	0	0	0
16H,6-22	63	25.8	21.3	5.1	0	3	4	20	27	27	9	0	0	0	0	0
18H,6-24	64	25.8	21.2	5.1	0	3	4	21	27	27	9	0	0	0	0	0
24H,0-24	67	25.7	21.1	5.1	0	3	5	22	28	28	9	0	0	0	0	0
Am Peak	11:00	-	-	-	-	11:00	11:00	11:00	11:00	11:00	11:00	-	-	-	-	-
	8	-	-	-	-	1	1	1	5	1	1	-	-	-	-	-
Pm Peak	16:00	-	-	-	-	16:00	16:00	16:00	16:00	17:00	17:00	-	-	-	-	-
	10	-	-	-	-	2	1	4	5	4	4	-	-	-	-	-



