

# **Proposed Residential Development** Site Allocations GNLP 0298 and GNLP 0335 at Watton Road, Hingham

# **Highways Statement**

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033/2020/Highways Statement

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P1

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**GHB Reference:** 

#### 1. INTRODUCTION

1.1. This Highways Statement has been prepared by Carol Grimsey who is a Chartered Engineer and Member of the Chartered Institution of Highways and Transport, working for the Practice of G.H. Bullard and Associates, founded in 1987 and specialising in the fields of Civil, Highway and Drainage Engineering. The Practice has advised and represented Local Authorities, Private Companies and Individuals on numerous Planning and Civil Engineering matters.

#### 2. PROPOSED DEVELOPMENT

- 2.1. This Highway Statement has been prepared to support the Local Plan sites GNLP0298 and GNLP0335 allocation submission for Stage C and Regulation 18 of the Draft Plan Consultation process.
- 2.2. The proposal is for up to 150 residential units, delivered in two phases, on approximately 6.3ha of previously agricultural land, off Watton Road, Hingham. Phase 1 GNLP 0298 and Phase 2 GNLP 0335. Refer to indicative site layout plan in **Appendix A**.
- 2.3. The highway authority in considering a future planning application for residential use, will aim to assess the development against National Planning Policy Framework (NPPF) paragraph 108 to 110, including these specific objectives:
  - Road Safety That it is safe for all users
  - Sustainability and Accessibility That it promotes sustainable, high-quality alternatives to the private car and to achieve developments accessible to all vehicles and people.
  - The Impact on Highways and Transportation Infrastructure With the main considerations being safety and congestion.
  - Design Quality That it encourages road adoption and efficient future maintenance.

#### 3. SITE ALLOCATION

3.1. The following extracts are taken from 'Hingham Assessment':

Hingham is identified as a Key Service Centre in the Greater Norwich Local Plan. Local services within Hingham include a primary school, GP practice, community buildings, employment opportunities and a food shop. Hingham is well served by public transport, connecting to Wymondham and Norwich.

At the base date of the plan there are no carried forward residential allocations in Hingham and 16 dwellings with planning permission on smaller sites.

The 'Towards a Strategy' document identifies that 400-600 dwellings in total should be provided between all the Key Service Centres over the lifetime of the plan. This site assessment booklet looks in detail at the sites promoted in Hingham to determine which are the most suitable to contribute towards the overall allocation figure for the Key Service Centres

3.2. Stage 1 included Site reference GNLP0298, Land opposite Hingham Sports Centre, Watton Road, Hingham for residential development appox. 50-100 dwellings; and GNLP0335 for residential development appox. 100-200 dwellings.

- 3.3. At Stage 2, constraints identified in the Housing and Economic Land Availability Assessment (HELAA) sites comparison table, the site GNLP0298 was assessed as 'amber' in five out of fourteen categories, including 'access' and 'transport and roads'. No categories were assed as 'red'. Site GNLP0335 was assessed as 'amber' in six out of fourteen categories, including 'access' and 'transport and roads'. No categories were assed as 'red'. Refer to later Stage 6 for details.
- 3.4. Stage 3 raised the following comments:

## Site GNLP0298

#### **General comments**

One objection raised concerns regarding traffic congestion, access and the impacts on the wildlife and the environment. Services are already overstretched while drainage remains a problem.

# **Hingham Town Council comments**

There would considerable issues regarding safe walking routes including controlled crossings along the B1108. These safety issues would also arise if housing were to be built on sites GNLP0298 and GNLP0335. There are already concerns being raised by residents living in Rectory Gardens about the lack of safe walking and crossing of the B1108 and more houses would magnify these concerns.

## Site GNLP0335

#### General comments

Objections raised concerns regarding loss of agricultural land, expansion of town and impacts on wildlife, rural character and the environment.

#### **Hingham Town Council comments**

There would considerable issues regarding safe walking routes including controlled crossings along the B1108. These safety issues would also arise if housing were to be built on sites GNLP0298 and GNLP0335. There are already concerns being raised by residents living in Rectory Gardens about the lack of safe walking and crossing of the B1108 and more houses would magnify these concerns.

#### 3.5. Stage 4 sites discussion:

#### Site GNLP0298

This site is located to the west of the settlement adjacent to the current settlement boundary and opposite the sports hall. Development here would extend the settlement further west along the B1108 and access would need to be taken on to this road. A very small part of the south west corner is covered by surface water flood risk but this is unlikely to affect the developable area. The site is considered to be a reasonable alternative as there is a pedestrian route to Hingham Primary School although this would require crossing the B1108 to get to the existing footway and some maintenance may be needed.

#### Site GNLP0335

This site is located to the west of the settlement behind site GNLP0298, adjacent to the current settlement boundary at its eastern edge. A very small part of the site to the west is subject to surface water flood risk but this is unlikely to affect the developable area. A pedestrian route to Hingham Primary School could be provided (potentially through Rectory Gardens) but children would have to cross the B1108 to access the existing footway. Access is shown from the Watton Road but it may be that the site would rely on

vehicular access through either 0298 or 0395 to be an acceptable form of development. The site is considered to be a reasonable alternative but would make an odd, backland form of development without the allocation of site GNLP0298.

- 3.6. The sites were included in the shortlisted sites in Stage 5, for further assessment.
- 3.7. Stage 6 detailed assessment:

# Site GNLP0298

#### **HELAA Conclusion:**

This site has good accessibility to services but development here would extend the settlement further into the countryside. Initial highway evidence has indicated that the local road network is unsuitable in terms of either road capacity or lack of footpath provision and there may be potential access constraints, however it may be possible to mitigate these issues. The site is at low risk of flooding but enhancement to the Water Recycling Centre and sewerage infrastructure upgrades may be required. The site is within 3,000m buffer zone to SSSI so any potential impact would need to be mitigated. There are a number of constraints but the site is considered suitable for the land availability assessment

#### **Highways**

No. Footway link from site to Hingham centre not achievable.

# **Development Management**

This site is not suitable considered suitable for allocation of the scale of the scale proposed. Even limited frontage development constrained by issues of access and safe crossing and landscape impact.

# Site GNLP0335

#### **HELAA Conclusion**:

The site appears to be landlocked behind existing properties, although access could potentially be achieved through neighbouring sites 0298 or 0395. Initial highway evidence has indicated that the local road network is unsuitable in terms of road capacity or lack of footpath provision. The site is at low risk of flooding but enhancement to the Water Recycling Centre and sewerage infrastructure upgrades may be required. The site is within 3,000m buffer zone to SSSI, within 400m of listed buildings and adjacent to the Conservation Area so any potential impact would need to be mitigated. There are a number of constraints but subject to the site coming forward with neighbouring sites it is considered suitable for the land availability assessment.

## **Highways**

No. No feasible access to highway.

#### **Development Management**

Not considered suitable due to impacts on form and character, landscape and ability to provide satisfactory access and safe crossing.

3.8. Stage 7 went on to categorise both sites as unreasonable for the following stated reasons:

## Site GNLP0298

This site is not considered to be suitable for allocation as development here would extend the settlement further west along the B1108. It is not possible to get an adequate footway link from the site into Hingham Town centre.

#### Site GNLP0335

This site is not considered to be suitable for allocation as it would make an odd, backland form of development without the allocation of site GNLP0298, which is also considered to be unreasonable on highway grounds.

- 3.9. *Highways* related issues raised to be considered further in this report are summarised:
  - *i.* Safe access constraints;
  - ii. Safety of pedestrian crossing (including existing Rectory Gardens);
  - iii. Safe footway link (including existing Rectory Gardens); and
  - iv. Capacity/ congestion
- 3.10. This report considers the highways related issues regarding submission and allocation of sites GNLP 0298 (Phase 1) and GNLP 0335 (Phase 2) for Stage C and Regulation 18, of the Draft Plan Consultation process.

#### 4. PLANNING HISTORY

4.1. Planning history relating to Site GNLP0298:

**2018/2530** Residential development of up to 10 dwellings, reusing existing field access Highways had no objections but the planning authority was unsupportive due to housing supply, so application was withdrawn.

The Highway Authority (15 January 2019) updated consultation response observed that 'the existing field entrance access arrangement is considered as the only satisfactory means to serve the site with the current highway situation. The majority of the site is located outside of the 30 mph speed limit and there is no existing footway on this side of Watton Road. The application is for up to 10 dwellings. Whilst we are happy to accept 9 dwellings to be served from a single private drive. Should the development be 10 dwellings then an estate road constructed to adoptable standard will be required. I note that the current indicative plan shows 8 dwellings.'

Suggested standard highway conditions included:

- the vehicular access/crossing over the verge shall be constructed in accordance with the highways specification (TRAD 4) and thereafter retained at the position shown on the approved plan;
- Surface water drainage;
- visibility splays measuring 2.4m x 120 metres westbound and 2.4m x 59m eastbound shall be provided to the access where it meets the highway; and
- on-site car parking and turning area.

**2019/0827** for 5 bungalows. This proposed using the existing farm access. Highways had no objections, but planners opposed it.

The Highway Authority (26 April 2019) response observed that 'the existing field entrance access arrangement is considered as the only satisfactory means to serve the site with the current highway situation. The majority of the site is located outside of the 30 mph speed limit and there is no existing footway on this side of Watton Road'.

Suggested standard highway conditions included:

- the vehicular access/crossing over the verge shall be constructed in accordance with the highways specification (TRAD 4) and thereafter retained at the position shown on the approved plan;
- Surface water drainage;
- visibility splays measuring 2.4m x 120 metres westbound and 2.4m x 59m eastbound shall be provided to the access where it meets the highway; and
- on-site car parking and turning area.

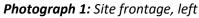
The Highway Authority (17 September 2019) updated consultation response noted the revised layout included providing a section of new footway on the south side of Watton Road, which it stated would be of benefit.

Suggested Conditions included submitted detailed drawings for the off-site highway improvement works and that they shall be completed to the satisfaction of LPA.

#### 5. ROAD SAFETY

5.1. The development proposal is for site allocation for up to 150 residential units, across both sites on previously agricultural land, off Watton Road, Hingham. Refer Photographs 1 and 2 for roadside site frontage.







Photograph 2: Site frontage, right



Photograph 3: East bound approach to village

5.2. The transition from 40 mph to 30 mph speed limit applies on the eastern boundary of the application site frontage, on Watton Road. As the proposed access to the development is located close to the 40 mph speed limit, access visibility splays of **2.4 m x 120 m**, in accordance with Design Manual for Roads and Bridges (DMRB) are normally

- appropriate. Referring to planning history, NCC has previously suggested visibility splays measuring 2.4 m x 120 m westbound and 2.4 m x 59 m eastbound are acceptable where the proposed access meets the highway.
- 5.3. A 7-day Automated Traffic Count (ATC) has been undertaken at the site frontage. During the period 09/02/2020 and 15/02/2020 the current hourly 85<sup>th</sup> Percentile speed was found to be **39.4 mph** west bound and **38.4 mph** east bound. Refer to **Appendix B** for a summary of the ATC results for this period.
- 5.4. In accordance with the basic formula for calculating the stopping sight distance, as detailed in Design Manual for Roads and Bridges (DMRB), for an 85<sup>th</sup> Percentile speeds of 39.4 mph and 38.4 mph, visibility splays of **2.4 m x 96 m** are required towards the west and visibility splays of **2.4 m x 100 m** are required towards the east, in accordance with DMRB standards.
- 5.5. The achievable visibility in excess of this as can be seen in Photographs 4 and 5 below:





Photograph 4: Visibility West

Photograph 5: Visibility East

- 5.6. The standard 40 mph speed limit splay measurements of 2.4 m x 120 m are achievable and shown on the Access and Roads layout plan, **Appendix** C. These are in excess of those required based on measured speeds, as such the access is considered will be safe.
- 5.7. Watton Road is 6.0 m wide, which is the County standard and as such is suitable for accommodating the new access without need for road widening.
- 5.8. The proposed access will take the form of an estate minor access road. The internal site layout will propose footways to both sides of the minor access road and also provide for internal walk route towards the west, behind (and retaining) the existing hedgerow frontage.
- 5.9. There are street lit footways on the north side of Watton Road, into the village centre, with tactile paviours at side roads. There is a limited footway along the south side. There is a short section to the east of the proposed access on the south side where only a grass verge is currently provided.
- 5.10. The indicative road layout includes the provision of a section of new footway on the south side of Watton Road, which NCC has previously stated would be of benefit, refer Planning History. This would further provide for improvements to the wider existing Rectory Gardens pedestrian linkage shortfall.
- 5.11. To provide safely for pedestrians crossing to the continuous footway route on the north side, there is a proposed central reservation and dropped kerbs, for formalised pedestrian crossing facility, exact location to be agreed at application stage.

- 5.12. The proposed offsite highway mitigation works will be discussed further in the Mitigation Section 8.
- 5.13. The most recent five year accident record of the road network in this area is shown in **Figure 1.** This shows the locations of all RTAs in the vicinity that have been recorded in the national STATS19 database.
- 5.14. Three slight injury accidents occurred in 2014, 2015 and most recently in March 2018.

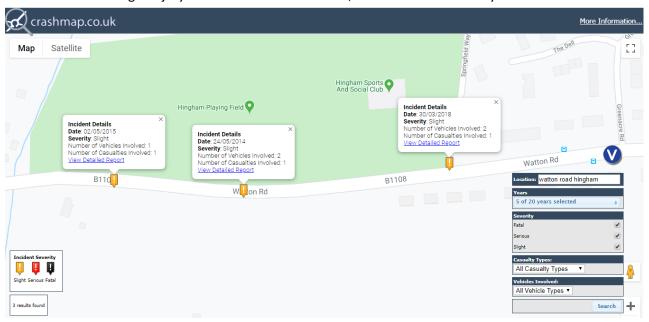


Figure 1 – Study Area and RTA Locations (Source: Crash map)

5.15. The random nature of the accidents does not suggest that there is an underlying particular problem that needs to be addressed within the area.

#### **Summary and Conclusion on Road Safety**

- 5.16. The standard 40 mph speed limit splay measurements of 2.4 m x 120 m are achievable and shown on the Access and Roads layout plan, **Appendix** C, as such the access is considered will be safe.
- 5.17. There is a low incidence of road injury accidents locally.
- 5.18. Vehicular and pedestrian site access is proposed with:
  - i. 40mph standard access visibility splays;
  - ii. Estate road minor access road, with footways to both sides; and
  - iii. Internal pedestrian route towards the west, retaining existing hedgerow frontage.
- 5.19. Proposed offsite highways mitigation includes (refer later Mitigation Section 8):
  - i. Pedestrian refuse with dropped kerb crossing Watton Road; and
  - *ii.* Provision of a section of new footway on the south side of Watton Road, providing for improvements to the wider existing Rectory Gardens pedestrian linkage shortfall.
- 5.20. It is therefore concluded there are no highway safety concerns in relation to the potential provision of a sustainable residential development on the proposed site allocation.
- 5.21. Therefore, in terms of NPPF Paragraph 109, the development will not result in unacceptable impact on highway safety.

#### 6. SUSTAINABILITY AND ACCESSIBILITY

## **Pedestrians**

- 6.1. The site can be accessed by pedestrians using the existing footways adjacent to north side of Watton Road to the village centre.
- 6.2. Pedestrian mitigation is proposed, refer Mitigation Section 8.
- 6.3. The 750 m walking route to the primary school is set out in the following photographs, refer Photographs 6-9 for the extent within 30 mph speed limit and Photographs 10-17, within 20 mph speed limit.
- 6.4. There has previously also been reference made to the potential for an alternative walk route to the school provided via Rectory Gardens.



Photographs 6-9: Walk route towards village and school, within 30 mph speed limit.

















Photographs 10- 17: Walk route towards village and school, within 20 mph speed limit.

- 6.5. There is an offsite highway works mitigation to provide footway links to connect to the existing Watton Road southern footway route. The verge is 1.8 m wide such that there is highway room available. This will be discussed further in the **Mitigation Section 8**.
- 6.6. There is also an opportunity for possible future wider pedestrian connection through the sites and new Community Woodland, to Attleborough Road (subject to additional land), refer to indictive Master plan **Appendix D.**

#### **Bus services**

- 6.7. The scheduled bus services through Hingham are, refer to Bus Timetables at **Appendix E**:
  - 3 Norwich N&NU Hospital Hingham Watton ( Shipdham Toftwood) Konectbus
  - 6 Norwich Wymondham Watton ( Toftwood / Ashill / Thetford)

Konectbus

13 - Easton College - Wymondham - Watton – Shipdham

Konectbus

17 - Bradenham - Yaxham — Dereham

West Norfolk Community Transport

6.8. The nearest bus stops are located at Greenacre Road, 140 m to the east, refer Photographs 18 and 19.





Photographs 18 and 19: Bus stops at Greenacre Road

- 6.9. The nearest train station is located at Kimberley Park, approximately 7 km to the east. Wymondham and can be reached by bus Service 6. The railway service allows easy access to Norwich, Ipswich and London on the east coast main line.
- 6.10. Occupiers will not be dependent upon use of a private car. The site is therefore considered sustainable in transport terms.

## **Summary and Conclusion on Site Sustainability**

- 6.11. The bus stops with regular services are within walking distance (140 m) to catch public transport, thus future occupiers will not be dependent upon use of a private car.
- 6.12. Through the proposed site layout, incorporating internal pedestrian links, proposed section of frontage footway east and central pedestrian refuse for crossing to the northern footway as proposed off site pedestrian mitigation, it is considered that this site allocation can adequately prioritised pedestrian, cyclists and access to public transport, in terms of NPPF paragraph 110.

# 7. THE IMPACT ON HIGHWAYS AND TRANSPORTATION INFRASTRUCTURE

- 7.1. The proposal is for up to 150 residential units.
- 7.2. A 150-dwelling development will generate approximately the following trips on opening:

	Arrivals	Departures	Two-way
AM Peak Hour	24	67	91
PM Peak Hour	74	30	104
Daily Total	543	491	1034

- 7.3. TA46/97 provides guidance on the assessment of rural roads based on physical characteristics. It is desirable that rural roads should maintain a 25% residual capacity (TA23/81).
- 7.4. A 6.0 m wide carriageway, such as Watton Road, has actual capacity for 876 vehicles per hour per direction in accordance with TA 46/97 (for assessment of Rural roads), 657 vehicles per direction is the desirable capacity. Referring to **Appendix B**, the busiest

peak hour traffic flow measured by the 7-day ATC on Watton Road was eastbound AM (07:00-08:00), where 380 vehicles were recorded (single direction flow). This represents only 57.8% of the desirable capacity. Adding proposed development trip generation of 74 vehicles per hour (single direction flow) equates to approximately 69.1% of the desirable capacity, which demonstrates there is ample reserve capacity.

- 7.5. There is also an opportunity for possible future wider vehicular (and pedestrian) connection through the sites to Attleborough Road (subject to additional land), thus avoiding the junction in the centre of Hingham which cannot be improved realistically because of listings and conservations issues, refer to indictive Master plan **Appendix D.**
- 7.6. Therefore, in terms of NPPF Paragraph 109, the development will not result in *residual cumulative impacts on the road network* that *would be severe*.

#### 8. MITIGATION

- 8.1. As discussed in **Section 3 Site Allocation**, the *highways* related issues raised can be summarised as follows:
  - i. Safe access constraints- Considered and acceptable, refer Section 5 Road Safety
  - ii. Safety of pedestrian crossing- refer below mitigation
  - iii. Safe footway link (including Rectory Gardens) refer below mitigation
  - iv. Capacity/ congestion- Considered and acceptable, refer Section 7 Impacts
- 8.2. Vehicular and pedestrian site access is proposed with:
  - *i.* 40 mph standard access visibility splays;
  - ii. Estate road minor access road, with footways to both sides; and
  - iii. Internal pedestrian route towards the west, retaining hedgerow frontage.
- 8.3. Proposed offsite highways mitigation includes:
  - i. Provision of a section of new footway on the south side of Watton Road, providing for improvements to the wider existing Rectory Gardens pedestrian linkage shortfall, refer Photograph 20 and Images 1 and 2 for graphical impressions of the proposed footway link, accommodated within the existing verge; and
  - *ii.* Pedestrian refuse with dropped kerb crossing Watton Road, refer example in Photograph 21.



Photograph 20: South side roadside footway link in front of Rectory Gardens





Images 1 and 2: Graphical Impressions of the proposed footway link



Photograph 21: Example of pedestrian refuse crossing

8.4. There is also an opportunity for possible future wider vehicular and pedestrian connections through the sites and new Community Woodland, to Attleborough Road (subject to additional land), thus avoiding the junction in the centre of Hingham which cannot be improved realistically because of listings and conservations issues, refer to indictive Master plan **Appendix D**.

#### 9. **SUMMARY**

- 9.1. Mitigation has been proposed to improve safety and pedestrian use for future occupiers and also achieve wider benefits to existing residents.
- 9.2. Vehicular and pedestrian site access is proposed with:
  - *i.* 40 mph standard access visibility splays for safe access;
  - ii. Estate road minor access road, with footways to both sides; and
  - iii. Internal pedestrian route towards the west, retaining hedgerow frontage.
- 9.3. Proposed offsite highways mitigation includes:
  - i. Pedestrian refuse with dropped kerb crossing Watton Road; and
  - *ii.* Provision of a section of new footway on the south side of Watton Road, providing for improvements to the wider existing Rectory Gardens pedestrian linkage shortfall.
  - *iii.* There is also an opportunity for possible future wider vehicular and pedestrian connections through the sites and new Community Woodland, to Attleborough Road (subject to additional land).
- 9.4. In terms of road capacity and possibility of congestion, whilst the proposed allocations would increase the amount of traffic on the surrounding roads, there remains significant reserve capacity.

- 9.5. The proposed estate road access, with visibility splays based on 40 mph speeds together with the proposed pedestrian mitigation, including safe pedestrian refuse crossing, internal link towards the west and section of linking frontage footway east (providing wider benefits to existing residents), it is considered that the proposed development allocation will meet the Highway Authority objectives and appropriately responds to the HELAA issues previously raised. As such, there are no technical concerns in relation to highway safety, sustainability or impacts regarding these sites for allocation.
- 9.6. It follows that the proposed site allocation would comply with Paragraph 108 of the Framework in that opportunities to promote sustainable transport modes can be taken up and safe and suitable access to the sites can be achieved for all users.
- 9.7. In terms of NPPF Paragraph 109, the development allocation will not result in 'unacceptable impact on highway safety, or the residual cumulative impacts on the road network would be severe'.
- 9.8. The inclusion of sites GNLP0298 and GNLP0335 should thus be considered suitable in *highways* terms for allocation in Stage C and Regulation 18 of the Draft Plan Consultation process.

**Appendix A**: Indicative Site Layout plan

**Appendix B**: ATC data summary Watton Road **Appendix C**: Access and Roads layout plan

**Appendix D**: Indicative Master plan

**Appendix E:** Bus Timetable

033-2020 Highway Statement.doc

Appendix A: Indicative Site Layout plan



# Appendix B: ATC data summary – Watton Road

Summary	1 of 3	

 Site Name
 1455

 Description
 B1108 Watton Rd, Hingham, TP approx 65m W Springfield Way [40MPH]

 Filter Start
 2020-02-09700:00:00

 Filter End
 2020-02-16700:00:00

## Weekday Traffic

Capital 1	Traffic W	estbo	und +	Avera	ge										
Time	Total	Cls	Cls		Cls C	ls Cls	Cl:	s Cls	Cls	Cls	Cl	s C	ls	Mean	
			2		3 4						10	1:	1		
0000		3	0	0	4	4	1	0	0	0	0	0	0	43.1	
0100	4	1	0	0	3	3	1	0	0	0	0	0	0	40.8	
200	4	4	0	0	3	3	1	0	0	0	0	1	0	41.0	
300		7	0	0	3	4	0	0	0	0	0	0	0	42.9	
0400	12	2	0	0	7	5	0	0	0	0	0	0	0	42.1	
)500	4	4	0	1	22	20	1	0	0	0	0	0	1	41.6	
0600	7:	2	0	0	40	28	3	1	0	1	0	1	0	37.8	
700	185	5	2	1	115	59	8	2	1	2	0	1	0	35.2	
0080	18	5	0	1	111	61	8	0	0	3	0	1	0	34.9	
0900	161	1	0	0	88	55	14	1	1	3	0	2	1	34.1	
1000	162	?	1	1	94	53	11	1	1	3	0	2	1	33.6	
1100	166	6	1	1	97	56	9	1	1	2	0	0	2	33.8	
1200	171	1	1	1	107	51	9	1	0	2	0	1	1	34.6	
1300	179	)	0	1	112	52	11	1	2	2	0	1	0	33.5	
1400	200	)	1	3	131	55	10	1	1	2	0	1	1	34.8	
500	258	3	1	2	170	74	11	1	1	3	0	1	1	34.5	
1600	300	)	0	3	204	86	7	0	0	3	0	2	1	34.3	
700	32	3	0	2	235	83	7	0	2	1	0	0	1	34.9	
800	206	6	1	1	148	52	5	0	0	1	0	1	1	35.4	
1900	104	4	0	1	71	28	3	0	0	1	0	0	1	35.8	
2000	7	5	0	1	49	21	3	0	0	0	0	1	0	36.3	
2100	62	2	0	0	43	18	1	0	0	0	0	0	0	36.3	
2200	40	)	0	1	29	10	3	0	0	1	0	0	0	36.5	
2300	20	)	0	0	15	5	0	0	0	0	0	0	0	37.1	
07-19	250:	1	8	17	1612	737	109	9	10	25	0 :	12.42	9.5	34.5	
06-22	281	3	8	19	1815	833	119	10	10	27	0 :	14.62	10.5	35.0	
06-00	287	3	8	20	1858	848	122	10	10	28	0 :	14.62	10.5	35.2	
00-00	295	2	8	21	1900	886	126	10	10	28	0	15.62	11.5	36.9	

AV5 AM	185							
AV5 PM	328							
AV5 24h	2952							
AADT	3022	%CV	6.8%					
						VP85 <sub>24-7</sub>	39.4 mph	1
						SSD	100 m	

#### Summary 2 of 3

1455

Site Name Description B1108 Watton Rd, Hingham, TP approx 65m W Springfield Way [40MPH]

2020-02-09T00:00:00 2020-02-16T00:00:00 Filter Start Filter End

# Weekday Traffic

<b>Capital T</b>	raffic Ea	stbou	ınd + A	Averag	е										
Time	Total	Cls	Cl	s (	Cls (	Cls C	ls Cls	Cls	Cls	Cls	Cls	Cls	1	Mean	
			2		3 4	4 5					10	11			
0000		1	0	0	2	2	1	0	0	0	0	0	0	37.6	
0100	3	3	0	0	2	2	2	0	0	0	0	0	0	39.6	
0200	3	3	0	0	2	2	1	0	0	0	0	0	0	41.3	
0300	7	7	0	0	2	5	0	0	0	1	0	1	0	39.9	
0400	12	2	0	0	4	7	1	0	0	0	0	0	0	42.2	
0500	53	3	0	0	24	25	4	1	0	1	0	1	0	39.6	
0600	146	5	1	2	66	65	11	0	0	0	0	2	2	34.0	
0700	380	)	0	2	183	174	14	1	1	3	0	1	2	32.8	
0800	329	9	0	1	156	157	11	1	0	2	0	1	1	32.6	
0900	218	3	0	1	88	116	11	0	0	3	0	2	1	33.1	
1000	169		0	1	72	85	8	2	1	2	0	1	1	33.0	
1100	179		1	2	72	89	10	2	1	2	1	2	2	32.6	
1200	183		1	2	73	94	10	2	0	3	0	2	2	32.8	
1300	181		1	1	71	91	12	2	1	2	0	1	1	32.4	
1400	210		1	0	87	107	12	1	1	2	0	1	1	31.8	
1500	205		1	1	74	114	12	1	0	2	0	2	1	33.3	
1600	217		1	1	92	112	11	1	0	1	0	1	1	33.0	
1700	212		2	1	95	109	5	0	0	3	0	1	1	32.9	
1800	124		0	1	55	66	2	0	1	2	0	0	0	33.6	
1900	74		0	0	35	38	2	0	0	0	0	1	0	35.2	
2000	46		0	1	23	22	1	0	0	1	0	0	0	35.9	
2100	31		1	0	15	15	1	0	0	0	0	0	0	35.7	
2200	21		0	0	9	12	0	0	0	0	0	0	0	36.7	
2300	7		0	0	3	5	1	0	0	0	0	0	0	38.3	
07-19	2607	7	8	14	1119	1313	120	12	6	25	1	15	14	32.8	
06-22	2905	5	10	17	1259	1453	136	12	6	26	1	18	16	33.4	
06-00	2932	2	10	17	1271	1470	137	12	6	26	1	18	16	33.9	
00-00	3014	1	10	17	1306	1513	145	13	6	28	1	20	16	35.4	
22 30	301												_		

AV5 AM	329								
AV5 PM	212								
AV5 24h	3014								
AADT	3121	%CV	7.4%						
							VP85 <sub>2</sub>	4-7	38.4 mph
							SS	SD	96 m

#### 3 of 3 Summary

1455 B1108 Watton Rd, Hingham, TP approx 65m W Springfield Way [40MPH]

Site Name Description Filter Start 2020-02-09T00:00:00 2020-02-16T00:00:00 Filter End

# Weekday Traffic

Combine	ed														
Time	Total	Cls	Cls		Cls (	Cls C	ls Cl	s Cls	Cls	Cls	Cls	Cls		Mean	
						4 5					10	11			
0000	12	2			6	6	2							40.3	
0100		7			4	4	3							40.2	
0200		7			5	5	2					1		41.2	
0300	14	4			5	9				1		1		41.4	
0400	24	4			11	13	1							42.1	
0500	9	7		1	46	46	5	1		1		1	1	40.6	
0600	218	8	1	2	106	93	14	1		1		3	2	35.9	
0700	565	5	2	3	298	233	22	3	2	5		2	2	34.0	
0800	513	3		2	267	218	20	1		5		3	1	33.8	
0900	379	9		1	176	171	25	1	1	5		4	2	33.6	
1000	330	)	1	2	166	138	19	3	2	4		3	2	33.3	
1100	345	5	2	3	169	144	19	3	2	4	1	2	3	33.2	
1200	354	1	2	3	179	145	19	3		4		3	3	33.7	
1300	360	)	1	2	183	144	24	3	3	4		2	1	32.9	
1400	411	1	2	3	219	163	22	2	2	4		2	2	33.3	
1500	463	3	2	3	245	188	23	2	1	5		3	2	33.9	
1600	517	7	1	4	296	198	18	1		4		3	2	33.7	
1700	540	0	2	3	330	192	12		2	4		1	2	33.9	
1800	330	)	1	2	204	118	7		1	3		1	1	34.5	
1900	17	7		1	106	65	5			1		1	1	35.5	
2000	12	1		2	72	43	5			1		1		36.1	
2100	93		1		58	34	2							36.0	
2200	6			1	38	22	3			1				36.6	
2300	26	ô			18	10	1							37.7	
07-19	5108	8	16	31	2732	2050	229	21	16	50	1	28	23	33.6	
06-22	5718	8	18	36	3074	2286	255	22	16	53	1	32	26	34.2	
06-00	580	5	18	37	3129	2318	259	22	16	54	1	32	26	34.5	
00-00	5960	6	18	38	3206	2399	271	23	16	56	1	35	27	36.1	

AV5 AM 513 AV5 PM 540 AV5 24h 5966 AADT %CV 6143 7.1% Appendix C: Access and Roads layout plan



#### DO NOT SCALE FROM THIS DRAWING

This drawing is a print and must not be scaled except where required to planning submissions. All new and existing dimensions and level shown on the drawings to be checked prior to commencement of work

construction work carried out prior to receiving all neces rovals is entirely at the clients risk.

This drawing is the copyright of Clayland Architects and shall not be any very used, modified or reproduced without their prior self-



Access and Mitigation Note Installed Lauric Disp. Delinted design in the agreed with NCC Hyprox Scales: 1:500





CONTRACT
Residential Development with New Community Woodland
Land Opposite Hingham Sports Centre
Watton rd,

Access and Road Layout

DEATE 1500 PAPER DEE DEADERS NAMERI AFRICADO
DATE: 270250
DIRANN IIID
JOS NAMERI CHECKED CLENT APPROVED
1620

Appendix D: Indicative Master plan





- w: konectbus.co.uk
  e: feedback@konectbus.co.uk
  @konectbuses

Thetford • Watton																	8 8
Watton • Hingham • N&NU F	lospi	tal (	3) / V	Vym	ondł	nam	(6) •	Nor	wich								3 & (
Mondays to Saturdays (except public holi	idays) s																
		3	6	6	3	3	6	6	3	6	3	6	3	6	3	6	3
		NS	NS	S	NS	S	NS	S	NS						NS		
Ashill, Millfield			0643									-					
Shipdham, opp PO		0628		0653	0658	0713											
Thetford Bus Interchange									0745						1042		
Croxton, opp Church Avenue																	
Thetford ajd Churchill Road									0748						1045		
East Wretham opp Camp									0756						1053		
East Wretham, adj Dog & Partridge									0758						1055		
Great Hockham, opp Green									0805						1102		
Caston, opp Green									0809						1106		
Griston adj Church									0814						1111		
Wayland Academy (when open)									0823								
Watton, Post Office		0645	0700	0710	0715	0730			0828						1121		
guaranteed conn																	
	6A	3	6	6	3	3	6	6	3	6	3	6	3	6	3	6	3
W B . A.C.		NS	NS	S	NS	S	NS	S				1000	4000	4400	4400	4000	400
Watton, Post Office						0730									1130		123
Carbrooke, opp Flying Fish															1137		123
Hingham, Bus Shelter		0700	0/1/	0726			0802	0816	0847	0917		1017	1047	1117	1147	1217	124
Barnham Broom, opp PO		0744	<del>-</del>	-		0756	-		0050	-	0956		4050		1156		405
Barford, B1108, opp Cock Inn		0711	-	-		0801	-		0858	-	1003	-	1058	_	1203	_	125
N&NU Hospital [A]		0723	÷	-		0815	-	-	0910	_	1015	_	1110		1215		131
Earlham Road, Fiveways		0729	0705	0704	0810	0820	0040	0004	0916	2005	1021	1005	1116	1105	1221	1005	131
Wicklewood, Cherry Tree				0734				0824		0925	_	1025	_	1125		1225	_
Wymondham, Melton Road				0738	<u> </u>			0828		0930		1030	_	1130	_	1230	_
Wymondham, Cross, NatWest	0705	<u> </u>		0750	<u> </u>			0840		0940		1040	_	1140		1240	_
Wymondham, Norwich Rd, Waitrose	0708	_		0753		-		0843		0944	-	1044	_	1144	-	1243	_
Hethersett, B1172, Steeple Tower	0712	-		0757	-			0847		0949	-	1049	-	1149	-	1249	-
Newmarket Road, opp Town Close Rd	0717			0806				0856		0959	1005	1059		1159	1005	1259	100
Norwich, Bus Station	0728	0/41	0808	0813	0830	0830	0848	0903	0930	1003	1035	1103	1130	1203	1235	1303	133
		3				3			6	•							
		NS				NS			NS								
Thetford Bus Interchange		1242				1442			1615								
Croxton, opp Church Avenue		1248															
Thetford aid Churchill Road						1445			1618								
East Wretham opp Camp		1255				1453			1626								
East Wretham, adj Dog & Partridge		1257				1455			1628								
Great Hockham, opp Green		1304				1502			1635								
Caston, opp Green		1308				1506			1639								
Griston adj Church		1313				1511			1644								
Wayland Academy (when open)						1525											
Watton, Post Office		1323				1530			1654								
		.020				.500			.504								
guaranteed conn	nection																

Watton, Post Office	1300	1330	1400	1430	1500	1530	1600	1630	1700
Carbrooke, opp Flying Fish	1307	1337	1407	1437	1507	1537	1607	1637	1707
Hingham, Bus Shelter	1317	1347	1417	1447	1517	1547*	1617	1647	1717
Barnham Broom, opp PO									
Barford, B1108, opp Cock Inn		1358		1458		1558*		1658	
N&NU Hospital [A]		1410		1510		1615	T	1710	
Earlham Road, Fiveways		1416		1516		1621	T	1716	
Wicklewood, Cherry Tree	1325		1425		1525		1625		1725
Wymondham, Melton Road	1330		1430		1530		1630		1730
Wymondham, Cross, NatWest	1340		1440		1540		1640		1740
Wymondham, Norwich Rd, Waitrose	1343		1443		1543		1643		1743
Hethersett, B1172, Steeple Tower	1349		1449		1549		1649		1749
Newmarket Road, opp Town Close Rd	1359	T i	1459		1559		1659		1759
Norwich, Bus Station	1403	1430	1503	1530	1603	1635	1703	1730	1803

Sundays & public holidays

Watton, Post Office	0930	1130	1330	1530
Carbrooke, opp Flying Fish	0935	1135	1335	1535
Hingham, Bus Shelter	0945	1145	1345	1545
Barford, B1108, opp Cock Inn	0955	1155	1355	1555
N&NU Hospital [A]	1010	1210	1410	1610
Earlham Road, Fiveways	1014	1214	1414	1614
Norwich, Bus Station	1025	1225	1425	1625

	Codes
NS	Does not operate on Saturdays
S	Operates on Saturdays only
*	On schooldays this bus starts from
l	Wayland Academy at 1525 and
l	operates via Carbrooke Village (1538)
	then runs 5 mins later at stops marked

Extra journeys on schooldays only:	3
Watton, Norwich Road, Blenheim Grange	0830
Watton, Junior School	0840
Watton Junior School	1520
Watton, Norwich Road, Blenheim Grange	1530



w: konectbus.co.uk

e: feedback@konectbus.co.uk @konectbuses

Watton • Thetford															;	3 &
Mondays to Saturdays (except public holi																
	3	3	6	3	6	3	6	3	6	3	6	3	6	3	6	
	NS/A		0045	0045	0045	0045	1015	4045	4445	4445	1015	4045	4045	4045	4445	
Norwich, Bus Station [B]				0845												
Norwich, St Stephens Street		0747		0847		0947	1017	1047		1147		1247		1347		
Newmarket Road, Town Close Rd			0821		0921		1021		1121		1221		1321		1421	
Hethersett, B1172, opp Steeple Tower			0829		0929		1029		1129		1229		1329		1429	
Wymondham, Norwich Rd, Waitrose			0834		0934		1034		1134		1234		1334		1434	
Wymondham, Cross, Big Fry			0842		0942		1042		1142		1242		1342		1442	
Wymondham, Melton Road			0844		0944		1044		1144		1244		1344		1444	
Earlham Road, Fiveways		0755		0855		0955		1055		1155		1255		1355		
N&NU Hospital [B]	0730	0804	i	0904	T	1004	Ť	1104	T i	1204	T	1304	T	1404		
Barford, B1108, Cock Inn	0740	0814		0914	$\overline{}$	1014	$\overline{}$	1114		1214		1314	$\neg$	1414	$\overline{}$	
Barnham Broom, opp PO	1	1		1	T T	T	T i	T	<u> </u>	1218	T T	1	T T	1418	T i	
Wicklewood, Cherry Tree			0850		0950	_	1050		1150	1	1250		1350	1	1450	
Hingham, Market Place	0750	0825		0925		1025	1057	1125		1230		1325		1430		
Carbrooke, Shire Autos	0757			0933				1133						1438		
Watton, Crown				0945									1417			
· · · · · · · · · · · · · · · · · · ·		0045	0917	0945	1017	1045	7777	1145	1217	1250	1317	1345	1417	1450	1517	-
guaranteed conr	3						6									
			6	_							6				6	6
	NS		NS				NS				NS				Sch	NS
Watton, Crown	0840		0927				1127				1327				1525	153
Wayland Academy															1530	
Griston opp Church			0936				1136				1336				1539	
Caston adj Green			0940				1140				1340				1543	
Great Hockham, opp PO	0855		0944				1144				1344				1547	154
East Wretham, opp Dog & Partridge			0951				1151				1351				1554	155
East Wretham, adj Camp			0953				1153				1353				1556	155
Croxton adj Church Ave			1000													
Thetford opp Churchill Road							1201				1401				1604	160
Thetford Bus Interchange			1009				1205				1405				1608	160
Mondays to Saturdays (except public holi																
	idays) see co	de 6	3	6	3	6	3	6	6A							
	3	6								•						
Norwich, Bus Station [B]	3 1445	6 <b>1515</b>	1545	1615	1645	1715	1745	1815	1910							
Norwich, Bus Station [B] Norwich, St Stephens Street	3 1445	6 1515 1517	1545	<b>1615</b> 1617		<b>1715</b> 1717	1745	<b>1815</b> 1817	<b>1910</b> 1912							
Norwich, Bus Station [B] Norwich, St Stephens Street Newmarket Road, Town Close Rd	3 1445	6 1515 1517 1521	1545	<b>1615</b> 1617 1621	1645	<b>1715</b> 1717 1721	1745	<b>1815</b> 1817 1821	<b>1910</b> 1912 1914							
Norwich, Bus Station [B] Norwich, St Stephens Street Newmarket Road, Town Close Rd Hethersett, B1172, opp Steeple Tower	3 1445	6 1515 1517 1521 1529	1545	<b>1615</b> 1617 1621 1629	1645	1715 1717 1721 1729	1745	1815 1817 1821 1829	1910 1912 1914 1922							
Norwich, Bus Station [B] Norwich, St Stephens Street Newmarket Road, Town Close Rd Hethersett, B1172, opp Steeple Tower Wymondham, Norwich Rd, Waitrose	3 1445	6 1515 1517 1521 1529 1534	1545 1547	1615 1617 1621 1629 1634	1645	1715 1717 1721 1729 1734	1745	1815 1817 1821 1829 1834	1910 1912 1914 1922 1927							
Norwich, Bus Station [B] Norwich, St Stephens Street Newmarket Road, Town Close Rd Hethersett, B1172, opp Steeple Tower Wymondham, Norwich Rd, Waitrose Wymondham, Cross, Big Fry	3 1445	6 1515 1517 1521 1529 1534 1542	1545 1547	1615 1617 1621 1629 1634 1642	1645	1715 1717 1721 1729 1734 1742	1745	1815 1817 1821 1829 1834 1842	1910 1912 1914 1922							
Norwich, Bus Station [B] Norwich, St Stephens Street Newmarket Road, Town Close Rd Hethersett, B1172, opp Steeple Tower Wymondham, Norwich Rd, Waitrose Wymondham, Cross, Big Fry Wymondham, Melton Road	3 1445 1447	6 1515 1517 1521 1529 1534	1545 1547     	1615 1617 1621 1629 1634 1642	1645 1647	1715 1717 1721 1729 1734	1745 1747       	1815 1817 1821 1829 1834	1910 1912 1914 1922 1927							
Norwich, Bus Station [B] Norwich, St Stephens Street Newmarket Road, Town Close Rd Hethersett, B1172, opp Steeple Tower Wymondham, Norwich Rd. Waitrose Wymondham, Cross, Big Fry Wymondham, Melton Road Earlham Road, Fiveways	3 1445 1447   	6 1515 1517 1521 1529 1534 1542	1545 1547               1558	1615 1617 1621 1629 1634 1642	1645 1647               1658	1715 1717 1721 1729 1734 1742	1745 1747               1758	1815 1817 1821 1829 1834 1842	1910 1912 1914 1922 1927 1934\$							
Norwich, Bus Station [B] Norwich, St Stephens Street Newmarket Road, Town Close Rd Hethersett, B1172, opp Steeple Tower Wymondham, Norwich Rd, Waitrose Wymondham, Cross, Big Fry Wymondham, Melton Road Earlham Road, Fiveways N&NU Hospital [B]	3 1445 1447   	6 1515 1517 1521 1529 1534 1542	1545 1547               1558 1610	1615 1617 1621 1629 1634 1642 1644	1645 1647               1658 1710	1715 1717 1721 1729 1734 1742	1745 1747             1758 1810	1815 1817 1821 1829 1834 1842	1910 1912 1914 1922 1927 1934\$       via							
Norwich, Bus Station [B] Norwich, St Stephens Street Newmarket Road, Town Close Rd Hethersett, B1172, opp Steeple Tower Wymondham, Norwich Rd, Waitrose Wymondham, Cross, Big Fry Wymondham, Melton Road Earlham Road, Fiveways N&NU Hospital [B] Barford, B1108, Cock Inn	3 1445 1447   	6 1515 1517 1521 1529 1534 1542	1545 1547               1558	1615 1617 1621 1629 1634 1642 1644	1645 1647           1658 1710	1715 1717 1721 1729 1734 1742	1745 1747         1758 1810 1820	1815 1817 1821 1829 1834 1842	1910 1912 1914 1922 1927 1934\$							
Norwich, Bus Station [B] Norwich, St Stephens Street Newmarket Road, Town Close Rd Hethersett, B1172, opp Steeple Tower Wymondham, Norwich Rd. Waitrose Wymondham, Cross, Big Fry Wymondham, Melton Road Earlham Road, Fiveways N&NU Hospital [B] Barford, B1108, Cock Inn Barnham Broom, opp PO	3 1445 1447   	6 1515 1517 1521 1529 1534 1542 1544	1545 1547               1558 1610	1615 1617 1621 1629 1634 1642 1644	1645 1647               1658 1710	1715 1717 1721 1729 1734 1742 1744	1745 1747             1758 1810	1815 1817 1821 1829 1834 1842 1844	1910 1912 1914 1922 1927 1934\$       via							
Norwich, Bus Station [B] Norwich, St Stephens Street Newmarket Road, Town Close Rd Hethersett, B1172, opp Steeple Tower Wymondham, Norwich Rd, Waitrose Wymondham, Cross, Big Fry Wymondham, Melton Road Earlham Road, Fiveways N&NU Hospital [B] Barford, B1108, Cock Inn Barnham Broom, opp PO Wicklewood, Cherry Tree	3 1445 1447   	6 1515 1517 1521 1529 1534 1542	1545 1547               1558 1610	1615 1617 1621 1629 1634 1642 1644 	1645 1647           1658 1710 1720 1725	1715 1717 1721 1729 1734 1742 1744   	1745 1747         1758 1810 1820 1825	1815 1817 1821 1829 1834 1842 1844     	1910 1912 1914 1922 1927 1934\$     via   Attleb							
Norwich, Bus Station [B] Norwich, St Stephens Street Newmarket Road, Town Close Rd Hethersett, B1172, opp Steeple Tower Wymondham, Norwich Rd, Waitrose Wymondham, Cross, Big Fry Wymondham, Melton Road Earlham Road, Fiveways N&NU Hospital [B] Barford, B1108, Cock Inn	3 1445 1447   	6 1515 1517 1521 1529 1534 1542 1544	1545 1547           1558 1610   	1615 1617 1621 1629 1634 1642 1644 	1645 1647           1658 1710 1720 1725	1715 1717 1721 1729 1734 1742 1744	1745 1747         1758 1810 1820 1825	1815 1817 1821 1829 1834 1842 1844	1910 1912 1914 1922 1927 1934\$     via   Attleb							
Norwich, Bus Station [B] Norwich, St Stephens Street Newmarket Road, Town Close Rd Hethersett, B1172, opp Steeple Tower Wymondham, Norwich Rd, Waitrose Wymondham, Cross, Big Fry Wymondham, Melton Road Earlham Road, Fiveways N&NU Hospital [B] Barford, B1108, Cock Inn Barnham Broom, opp PO Wicklewood, Cherry Tree	3 1445 1447   	6 1515 1517 1521 1529 1534 1542 1544         1550	1545 1547           1558 1610   	1615 1617 1621 1629 1634 1642 1644           1650	1645 1647           1658 1710 1720 1725 	1715 1717 1721 1729 1734 1742 1744   	1745 1747         1758 1810 1820 1825 	1815 1817 1821 1829 1834 1842 1844         1850	1910 1912 1914 1922 1927 1934\$     via   Attleb							
Norwich, Bus Station [B] Norwich, St Stephens Street Newmarket Road, Town Close Rd Hethersett, B172, opp Steeple Tower Wymondham, Norwich Rd, Waitrose Wymondham, Cross, Big Fry Wymondham, Melton Road Earlham Road, Fiveways NaNU Hospital [B] Barford, B1108, Cock Inn Barmham Broom, opp PO Wicklewood, Cherry Tree Hingham, Market Place	3 1445 1447 1455 1506 1516 1527 1535	6 1515 1517 1521 1529 1534 1542 1544         1550	1545 1547           1558 1610 1620             	1615 1617 1621 1629 1634 1642 1644       1650 1657	1645 1647         1658 1710 1720 1725   1736	1715 1717 1721 1729 1734 1742 1744       1750 1757	1745 1747         1758 1810 1820 1825   1836 1844	1815 1817 1821 1829 1834 1842 1844         1850	1910 1912 1914 1922 1927 1934\$       via Attleb     2003 2010							
Norwich, Bus Station [B] Norwich, St Stephens Street Newmarket Road, Town Close Rd Hethersett, B1172, opp Steeple Tower Wymondham, Norwich Rd. Waitrose Wymondham, Cross, Big Fry Wymondham, Melton Road Earlham Road, Fiveways NSNU Hospital [B] Barford, B1108, Cock Inn Barnham Broom, opp PO Wicklewood, Cherry Tree Hingham, Market Place Carbrooke, Shire Autos	3 1445 1447 1455 1506 1516 1527 1535	6 1515 1517 1521 1529 1534 1542 1544         1550 1557 1605	1545 1547   	1615 1617 1621 1629 1634 1642 1644       1650 1657	1645 1647         1658 1710 1720 1725   1736	1715 1717 1721 1729 1734 1742 1744       1750 1757	1745 1747         1758 1810 1820 1825   1836 1844	1815 1817 1821 1829 1834 1842 1844       1850 1857	1910 1912 1914 1922 1927 1934\$       via Attleb     2003 2010							
Norwich, Bus Station [B] Norwich, St Stephens Street Newmarket Road, Town Close Rd Hethersett, B1172, opp Steeple Tower Nymondham, Norwich Rd, Waitrose Nymondham, Melton Road Earlham Road, Fiveways N&NU Hospital [B] Barford, B1108, Cock Inn Barnham Broom, opp PO Nicklewood, Cherry Tree Hingham, Market Place Carbrooke, Shire Autos Natton, Crown	3 1445 1447	6 1515 1517 1521 1529 1534 1542 1544         1550 1557 1605	1545 1547   	1615 1617 1621 1629 1634 1642 1644 1 1650 1657 1705 1717	1645 1647         1658 1710 1720 1725   1736 1744 1756   3	1715 1717 1721 1729 1734 1742 1744   	1745 1747         1758 1810 1820 1825     1836 1844 1856   3	1815 1817 1821 1829 1834 1842 1844   	1910 1912 1914 1922 1927 1934\$       via Attleb     2003 2010							
Norwich, Bus Station [B]  Norwich, St Stephens Street Newmarket Road, Town Close Rd Hethersett, B172, opp Steeple Tower Wymondham, Norwich Rd, Waitrose Wymondham, Cross, Big Fry Wymondham, Metton Road Earlham Road, Fiveways NANU Hospital [B] Barford, B1108, Cock Inn Barnham Broom, opp PO Wicklewood, Cherry Tree Hingham, Market Place Carbrooke, Shire Autos Watton, Crown	3 1445 1447	6 1515 1517 1521 1529 1534 1542 1544         1550 1557 1605	1545 1547   	1615 1617 1621 1629 1634 1642 1644 1 1650 1657 1705 1717	1645 1647         1658 1710 1720 1725   1736 1744 1756   3	1715 1717 1721 1729 1734 1742 1744         1750 1757 1805 1817   6	1745 1747         1758 1810 1820 1825   1836 1844 1856	1815 1817 1821 1829 1834 1842 1844   	1910 1912 1914 1922 1927 1934\$       via Attleb     2003 2010							
Norwich, Bus Station [B] Norwich, St Stephens Street Newmarket Road, Town Close Rd Hethersett, B1172, opp Steeple Tower Wymondham, Norwich Rd, Waitrose Wymondham, Melton Road Earlham Road, Fiveways N&NU Hospital [B] Barford, B1108, Cock Inn Barnham Broom, opp PO Wicklewood, Cherry Tree Hingham, Market Place Carbrooke, Shire Autos Watton, Crown	3 1445 1447	6 1515 1517 1521 1529 1534 1542 1544         1550 1557 1605	1545 1547   	1615 1617 1621 1629 1634 1642 1644 1 1650 1657 1705 1717	1645 1647 	1715 1717 1721 1729 1734 1742 1744         1750 1757 1805 1817   6	1745 1747         1758 1810 1820 1825   1836 1844 1856	1815 1817 1821 1829 1834 1842 1844   	1910 1912 1914 1922 1927 1934\$       via Attleb     2003 2010							

Norwich, Bus Station [B]	1030	1230	1430	1630
Norwich, St Stephens Street [BR]	1031	1231	1431	1631
Earlham Road, Fiveways	1039	1239	1439	1639
N&NU Hospital [B]	1045	1245	1445	1645
Barford, B1108, Cock Inn	1056	1256	1456	1656
Hingham, Market Place	1108	1308	1508	1708
Carbrooke, Shire Autos	1117	1317	1517	1717
Watton, Crown	1125	1325	1525	1725

	Codes
NS	Does not operate on Saturdays
S	Operates on Saturdays only
r	Drops off by request to the driver
\$	Serves Wymondham Cross, Natwest
Α	On schooldays operates via Carbrooke Village (0801) then
I	Shire Autos (0805), Wayland Academy (0820) and
	Watton Post Office (0825).

Extra journeys on schooldays only:	3
Watton, Norwich Road, Blenheim Grange	0830
Watton, Junior School	0840
Watton Junior School	1520
Watton, Norwich Road, Blenheim Grange	1530