

Transport Statement

Land at Whitehills Road, Loughton

21-007-001 Rev -February 2021



Document Control Sheet

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1 Introduction

1.1 Introduction

1.1.1 C & A Consulting Engineers have been commissioned by Epping Forest District Council (EFDC) to provide transport and highways advice for the Whitehills Road site, located in Loughton, Essex. The site location is shown in red in Figure 1 below.

Figure 1: Site Location



- 1.1.2 The site is currently the location of 26 garages, originally associated with the surrounding dwellings. EFDC are proposing to redevelop the site for residential use.
- 1.1.3 The site was granted planning permission for a similar scheme (ref EPF/1759/16) in 2016 although this permission has now lapsed.
- 1.1.4 Essex County Council (ECC) previously raised concerns regarding the loss of parking arising from the redevelopment of the site and so this report includes a 'Lambeth methodology' parking survey.
- 1.1.5 This report includes the following sections:
 - Section 2 provides an overview of relevant National and Local Policy;
 - Section 3 reviews the existing situation of the site, related to highways and transport conditions;

- Section 4 sets out the development proposals, considering access, visibility and parking numbers.
- Section 5 provides a summary of the likely impact of the development on existing parking situation on the surrounding roads, using the Lambeth Parking Survey methodology, and reviews the likely on-street parking capacity once the development is in place;
- Section 6 summarises the finding of this report and provides a conclusion.

2 Policy

2.1 National Policy

- 2.1.1 The National Planning Policy Framework (NPPF) focuses on sustainability and encouraging sustainable transport solutions.
- 2.1.2 Paragraph 108 of the NPPF states:

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

a) appropriate opportunities to promote sustainable transport modes can be – or have been – taken up, given the type of development and its location;

b) safe and suitable access to the site can be achieved for all users; and

c) any significant impacts from the development on the transport network (in terms of capacity and congestion), or on highway safety, can be cost effectively mitigated to an acceptable degree.

- 2.1.3 The NPPF is supported by Planning Practice Guidance including guidance on the preparation of Transport Statements.
- 2.1.4 In addition, Manual for Streets (MfS) covers the design, construction, adoption and maintenance of new residential streets. MfS Chapter 7 details the visibility requirements for junctions. In addition to this, MfS section 6.6 discusses how highway design should cater for emergency and service vehicles.

2.2 Regional Policy

- 2.2.1 The Essex Local Transport Plan, which comprises two parts; the Essex Transport Strategy and the Implementation Plan, are the prevailing documents for transport policy in Essex.
- 2.2.2 The Transport Strategy sets out the vision for transport over a 15-year period along with the policies and broad approach to implementing them. The Implementation Plan sets out in greater detail how the outcomes of the strategy will be delivered and monitored, highlighting the priorities for investment in the short-term, and this is refreshed every three years.
- 2.2.3 Supplementary planning guidance is also provided, and this includes the 2009 ECC Revised Vehicle Parking Standards. This document sets out guidance on the level of parking to be provided at new development as well as advice on layout and space sizes.

2.3 Local Policy

- 2.3.1 The adopted Epping Forest District Council 2006 Local Plan Alterations Document provides the planning context for the local area.
- 2.3.2 EFDC adopted the ECC Parking Standards within the Local Plan in April 2010.

3 Existing Conditions

3.1 Site Location

- 3.1.1 The proposed redevelopment site is located on the western end of Whitehills Road, Buckhurst Hill, as shown on Figure 1 of this report.
- 3.1.2 The site contains 26 garages, originally associated with the surrounding dwellings. The site currently takes access onto Whitehills Road. To the east, Whitehills Road connects to Newmans Lane and to the north west connects to Church lane.
- 3.1.3 From the point of access onto Whitehills Road, the site's location offers good pedestrian and vehicular links to local facilities. Along Whitehills Road there is good pedestrian infrastructure with wide, well-lit footways on either side of the carriageway. These connect to the wider pedestrian network on the adjacent roads, including Newmans Lane and Church Lane.
- 3.1.4 The network provides safe pedestrian routes to the shopping parade on Borders Lane some 500m from the site with a newsagent, foodstore and takeaway. Oak View School is immediately to the south of the site, and is accessible by safe, lit pedestrian footways.
- 3.1.5 Yellow keep clear markings are present on Whitehills Road to the south of the site access, to prevent parking close to the school. A white lined access protection marking is present across the existing site access, to ensure vehicles do not block the access road.
- 3.1.6 Whitehills Road is approximately 6m in width and connects to the wider highway network of Rectory Lane and the A121, which provide convenient vehicular links to Debden and Loughton centres and access to the M25 London Orbital Motorway and the M11 heading into London to the south and north towards Cambridge.

3.2 Public Transport

- 3.2.1 The closest bus stops are on Newmans Lane some 400m from the site access. These are served by route 418, which runs from Loughton to Epping. The stops on Borders Lane, some 500m from the site access, are served by routes 66 and 397. These run to Waltham Cross and Chingford respectively, both running every 30 minutes.
- 3.2.2 Debden Station, on the London Underground Central line, is around 1.5km walking distance from the site and is accessible by safe, lit pedestrian routes. The Central Line provides frequent services to central London and key stations within Essex.

4 Proposed Development

4.1 Overview

4.1.1 The proposed development consists of the removal of 26 garages and the provision of 2 two-bedroom affordable dwellings. Appendix A shows the proposed masterplan.

4.2 Access

- 4.2.1 Access will be taken via the existing access road, which provides a simple priority junction onto Whitehills Road. The access road is some 2.8m wide and approximately 29m in length. The access road provides sufficient forward visibility that, on the rare occasions two vehicles try to use the access road at once, any oncoming vehicle will be able to see the other car approach and give way or reverse a short distance to allow the other car to pass, as necessary.
- 4.2.2 Visibility at the access road junction with Whitehills Road is shown on Drawing 21-007/001. This shows that adequate visibility of 2.4m x 43m can be achieved at the access junction, as per the design standard for a road with a 30mph speed limit.

4.3 Parking

- 4.3.1 The layout includes 5 unallocated parking spaces within the development, as shown in Appendix A. This level of parking is consistent with the 'Parking Standards, Design and Good Practice' guidance produced by ECC in 2009.
- 4.3.2 These parking spaces are 5m x 2.5m, which is the minimum parking bay size required within the ECC guidance.
- 4.3.3 The Essex Design Guide recommends that each dwelling should be fitted with a standard charging point (3-7kW).

4.4 Refuse

4.4.1 A refuse strategy was agreed for the previous application. Refuse will be collected from a defined area for refuse storage on bin day, that is located close to the site access, as shown in **Appendix A**. Refuse vehicles will not need to enter the site.

5 Transport Implications

5.1 Trip Generation

- 5.1.1 The TRICS database has been used to assess the vehicle trip generation of the proposed development.
- 5.1.2 Using sites in the Affordable/Local Authority Housing category in England, the overall two-way trip rates are 0.379 per dwelling in the AM peak hour, and 0.461 per dwelling in the PM peak hour. The full output is shown in **Appendix B**.
- 5.1.3 For the two dwellings, this equates to around 1 vehicle trip in each of the peak hours. This impact would not affect the capacity or safety of the network or the existing junctions.
- 5.1.4 Although all the 26 garages are now vacant, the theoretical trip generation of the existing site has been considered. Garages are not always used for vehicle parking, so it would be unrealistic to assume that the garages accommodate 26 cars associated with 26 individual dwellings.
- 5.1.5 There have been many studies by consultants and highway authorities on the likely use of garages and whether owners do use them for parking, or instead use the space for storage. A study by Mouchel in 2007, conducted on behalf of ECC, indicated that '78% of garages are not used to store vehicles but used for general storage/utility uses instead' (Mouchel Resident's Study 2007).
- 5.1.6 Therefore, assuming that 22% of the 26 garages are used for parking and that each garage is for a single dwelling, then the existing garages correspond to 6 dwellings.
- 5.1.7 Using the trip rates associated with the proposed development applied to the proxy of 6 dwellings for the existing garages, the two-way trip generation is 2 vehicle trips in the AM peak hour and 3 vehicle trips in the PM peak hour.
- 5.1.8 The proposed development is therefore considered to be a slight betterment for pedestrian/vehicle interaction for the access, as there would be a reduction of 1 vehicle trip in the morning peak and 2 in the evening peak. Whilst the reduction is relatively modest in nature, the changes to the proposed site cannot be considered to constitute a worsening of the current situation for pedestrians.

5.2 Parking Demand

5.2.1 C&A carried out 'Lambeth Methodology' parking surveys to establish the existing onstreet parking demand. This stipulates that surveys should be conducted between 12.30am and 5.30am on two separate weekday nights, to best assess the parking demand from residents only.

- 5.2.2 The survey covered streets up to 200 metres from the proposed access, as shown in Drawing 21-007/002.
- 5.2.3 The potential capacity for on-street parking is derived by dividing the lengths of available kerb by 5 metres per vehicle. The total number of observed parked vehicles is then divided by the capacity to give a parking stress factor.
- 5.2.4 It should be noted that properties in the survey area predominantly have driveways and garages, so little or no on-street parking was observed.
- 5.2.5 The surveys took place on Wednesday 10 and Friday 12 February 2021 at 01:00, and the results are summarised in Table 5.1 below.

Street Name	Length of unrestricted parking (m)	Unrestricted parking spaces	Cars parked in unrestricted spaces	Unrestricted parking stress (%)
Survey 1 – 10 Febr	uary 2021	-		
Church Lane	70	14	0	0%
Wellfields	235	47	2	4%
Whitehills Road	110	22	0	0%
Carroll Hill	320	64	19	30%
Durnell Way	45	9	9	100%
Total area		156	30	19%
Survey 2 - 12 Feb	ruary 2021	•		
Church Lane	70	14	0	0%
Wellfields	235	47	0	0%
Whitehills Road	110	22	0	0%
Carroll Hill	320	64	19	30%
Durnell Way	45	9	8	89%
Total area		156	27	17%

Table 5.1: Parking Survey

- 5.2.6 The survey shows that there is low parking stress in the local area, averaging 18% across the two survey days.
- 5.2.7 The proposed development will provide 5 parking spaces within the scheme. Although this parking will be unallocated, this equates to 2.5 parking spaces per dwelling.
- 5.2.8 A review of the car ownership data for the district, from the 2011 Census, indicates the average car ownership per dwelling is 1.3. This parking provision will therefore be sufficient to accommodate the parking demand from the development, and there will not be any impact on on-street parking.

- 5.2.9 The garages on the Site are no longer rented out. However, as a theoretical worst case, some 6 vehicles could be displaced from the garages onto the surrounding roads (as around 22% of garages are used for parking).
- 5.2.10 With an additional 6 vehicles parked on street, there would be a slight increase to increase to 33-39 vehicles parked in the 156 spaces, which is a parking stress of 21-25%.

6 Summary and Conclusions

6.1 Summary

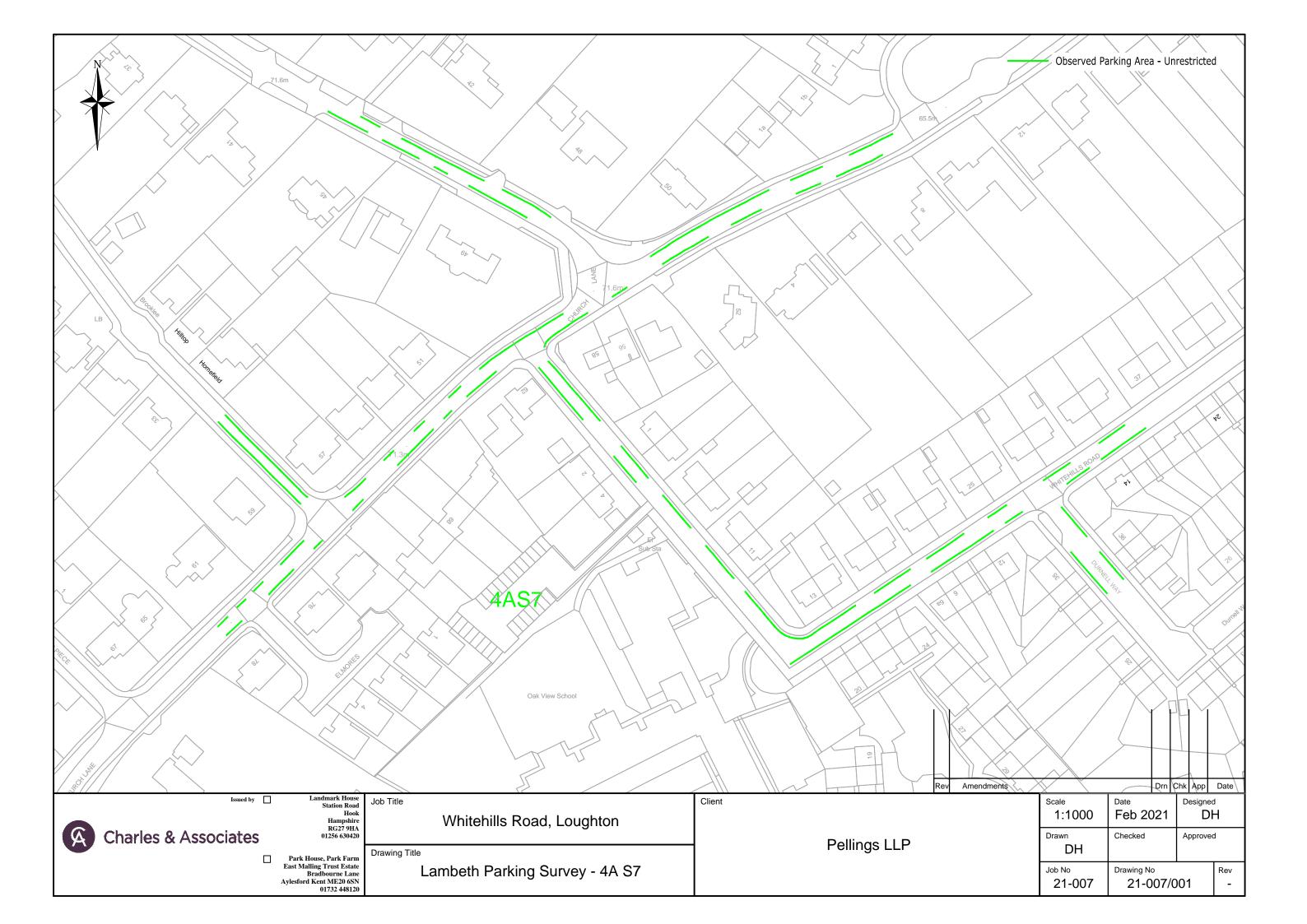
- 6.1.1 The proposed development at Whitehills Road, Loughton benefits from reasonable access by a range of transport modes.
- 6.1.2 The existing garages on the Site are no longer rented out and are unlikely to generate any vehicle trips in the future.
- 6.1.3 Nevertheless, the proposed development would result in a reduction in vehicle trips against the potential activity associated with the existing garages.
- 6.1.4 On-site parking will be provided in line with ECC standards.
- 6.1.5 A recent parking survey shows that in a worst-case assessment, there would be adequate on-street parking to accommodate any displaced vehicles.

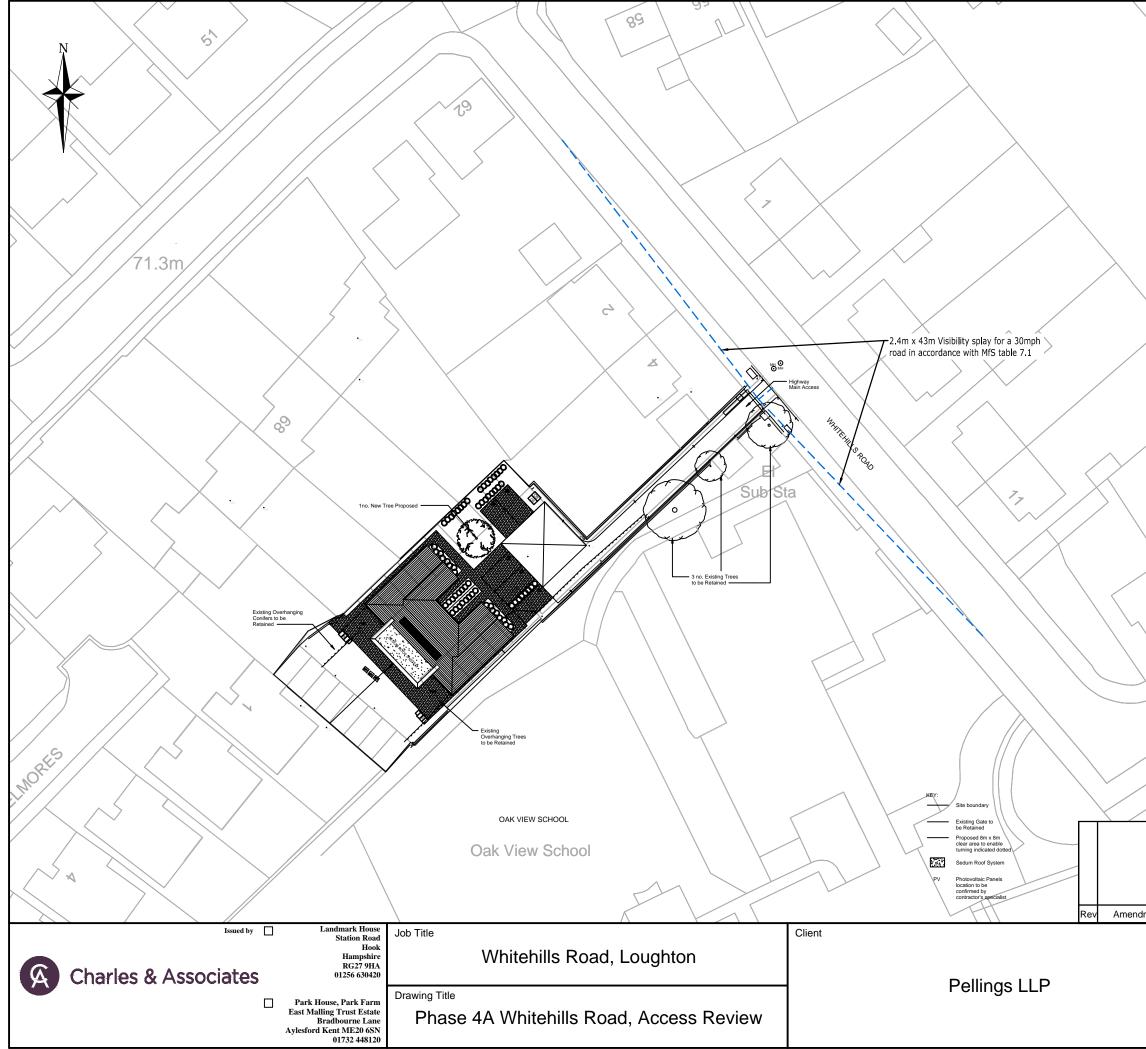
6.2 Conclusions

6.2.1 The development would therefore be acceptable in transport terms.

Transport Statement

February 2021

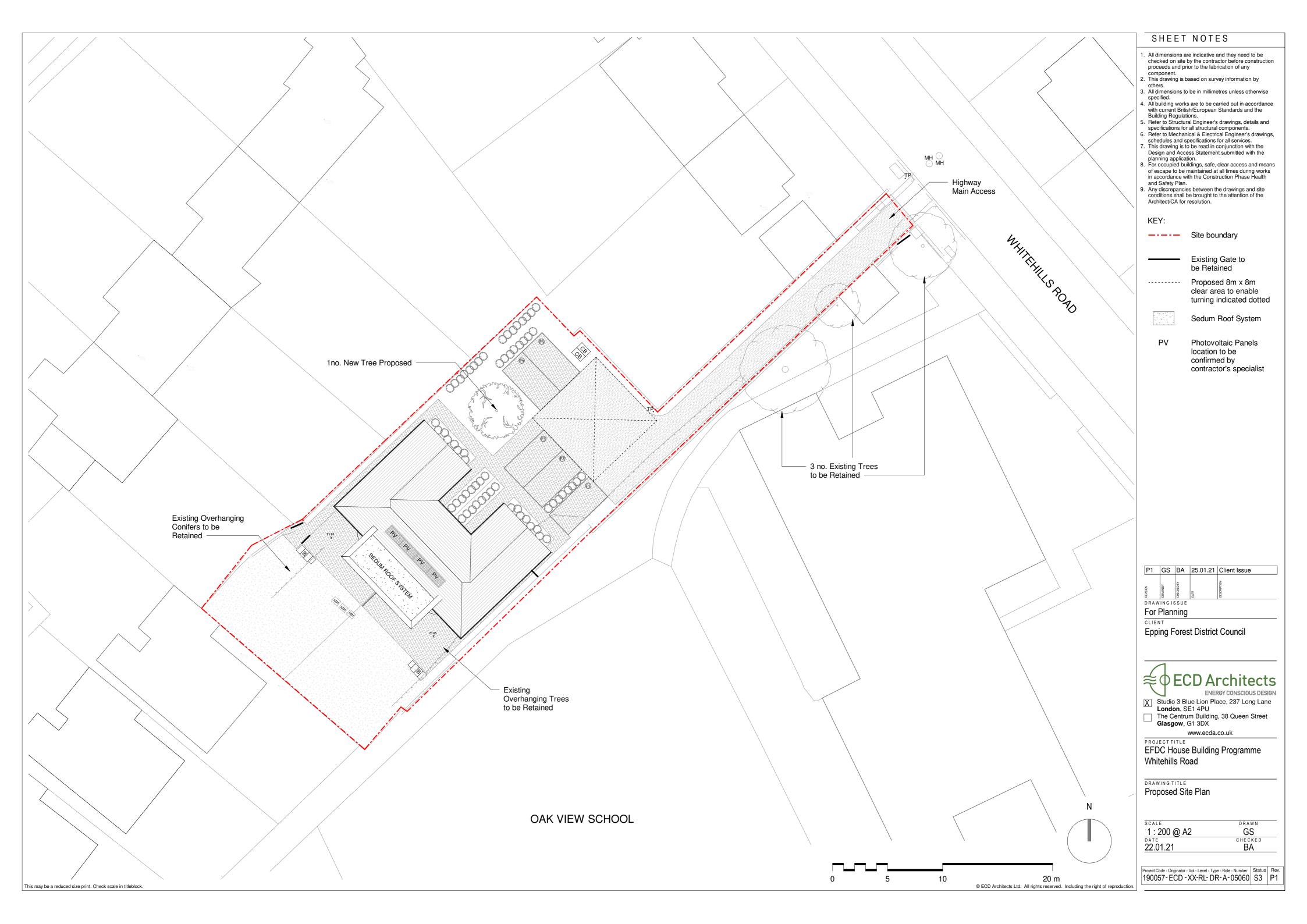




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Appendix A Proposed Layout

Charles & Associates



Appendix B TRICS Assessment

Charles & Associates

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	itehills Road		Page 1
C & A Consu	Iting Engineers Bradbourne Vale Road Se	evenoaks	Licence No: 657801
			e: AUDIT-657801-210203-0220
TRI	P RATE CALCULATION SELECTION PARAM	ETERS:	
	Use : 03 - RESIDENTIAL		
	egory : B - AFFORDABLE/LOCAL AUTHORI	IY HOUSES	
10	TAL VEHICLES		
	ected regions and areas:		
02	SOUTH EAST		
	EX ESSEX	1 days	
03	SOUTH WEST		
	WL WILTSHIRE	1 days	
06	WEST MIDLANDS		
	WO WORCESTERSHIRE	1 days	
07	YORKSHIRE & NORTH LINCOLNSHIRE		
	WY WEST YORKSHIRE	1 days	
08	NORTH WEST	-	
	GM GREATER MANCHESTER	1 days	
11	SCOTLAND	-	
	DU DUNDEE CITY	1 days	
		5	

This section displays the number of survey days per TRICS® sub-region in the selected set

Primary Filtering selection:

This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.

Parameter:	No of Dwellings
Actual Range:	16 to 228 (units:)
Range Selected by User:	11 to 30 (units:)

Parking Spaces Range: All Surveys Included

Parking Spaces per Dwelling Range: All Surveys Included

Bedrooms per Dwelling Range: All Surveys Included

Percentage of dwellings privately owned: All Surveys Included

Public Transport Provision: Selection by:

Include all surveys

Date Range: 01/01/12 to 19/10/18

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

<u>Selected survey days:</u>	
Monday	1 days
Tuesday	1 days
Wednesday	1 days
Thursday	2 days
Friday	1 days

This data displays the number of selected surveys by day of the week.

<u>Selected survey types:</u>	
Manual count	6 days
Directional ATC Count	0 days

This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaking using machines.

> 4 2

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1

<u>Selected Locations:</u>	
Suburban Area (PPS6 Out of Centre)	
Neighbourhood Centre (PPS6 Local Centre)	

This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.

<u>Selected Location Sub Categories:</u> Residential Zone Built-Up Zone Village No Sub Category

This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village,

007 Whitehills Road	Dradhaurna Vala Daad Sayanaaka	Pag
A Consulting Engineers	Bradbourne Vale Road Sevenoaks	Licence No: 657
Secondary Filtering	g selection:	
<u>Use Class:</u>		
C3	6 days	
This data displays the has been used for the <u>Population within 500</u>	e number of surveys per Use Class classification within the selected set. The is purpose, which can be found within the Library module of TRICS®.	e Use Classes Order 2005
<i>This data displays the has been used for the has been used for the <u>Population within 500</u> All Surveys Included</i>	e number of surveys per Use Class classification within the selected set. The his purpose, which can be found within the Library module of TRICS®. Om Range:	e Use Classes Order 2005
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<u>FOPUIATION WITHIN STIMES.</u>	
25,001 to 50,000	1 days
50,001 to 75,000	1 days
75,001 to 100,000	1 days
125,001 to 250,000	2 days
250,001 to 500,000	1 days

This data displays the number of selected surveys within stated 5-mile radii of population.

<u>Car ownership within 5 miles:</u>	
0.6 to 1.0	4 days
1.1 to 1.5	2 days

This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5-miles of selected survey sites.

<u>Travel Plan:</u> No

6 days

This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.

<u>PTAL Rating:</u> No PTAL Present

6 days

This data displays the number of selected surveys with PTAL Ratings.

	4 161220 B20.07 Database right of TRICS itehills Road	Consortium Limited, 2021.	. All rights reserved	Wednesday 03/02/21 Page 3
		Sevenoaks		Licence No: 657801
<u></u>	T OF SITES relevant to selection parameters			
1	DU-03-B-01 TERRACED BUNGA	LOWS	DUNDEE CITY	
	307-441 BALUNIE DRIVE			
	DUNDEE			
	DOUGLAS & ANGUS			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total No of Dwellings:	68		
	Survey date: FRIDAY	21/04/17	Survey Type: MANUA	<i>1</i> ∠
2	EX-03-B-01 MI XED HOUSES &	FLATS	ESSEX	
	SHIMBROOKS			
	NEAR BRAINTREE			
	GREAT LEIGHS			
	Neighbourhood Centre (PPS6 Local Centre)		
	Village			
	Total No of Dwellings:	228		
	Survey date: THURSDAY	10/05/18	Survey Type: MANUA	
3	GM-03-B-01 TERRACED HOUSES	S	GREATER MANCHESTE	R
	NEWBOLD			
	ROCHDALE			
	Suburban Area (PPS6 Out of Centre)			
	No Sub Category			
	Total No of Dwellings:	43		
	Survey date: WEDNESDAY	21/10/15	Survey Type: MANUA	12
4	WL-03-B-01 TERRACED HOUSES		WILTSHIRE	
	BUTTERFIELD DRIVE			
	AMESBURY			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total No of Dwellings:	54		
	Survey date: TUESDAY	18/09/18	Survey Type: MANUA	12
5	WO-03-B-02 TERRACED HOUSES	S	WORCESTERSHIRE	
	GOODREST WALK			
	WORCESTER			
	MERRIMANS HILL			
	Neighbourhood Centre (PPS6 Local Centre)		
	Residential Zone			
	Total No of Dwellings:	16		
	Survey date: MONDAY	14/11/16	Survey Type: MANUA	12
6	WY-03-B-03 TERRACED HOUSES	S	WEST YORKSHIRE	
	LINCOLN GREEN ROAD			
	LEEDS			
	Suburban Area (PPS6 Out of Centre)			
	Built-Up Zone			
	Total No of Dwellings:	29		
	Survey date: THURSDAY	19/09/13	Survey Type: MANUA	12

This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

Licence No: 657801

TRIP RATE for Land Use 03 - RESIDENTIAL/B - AFFORDABLE/LOCAL AUTHORITY HOUSES TOTAL VEHICLES Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period

	ARRIVALS		[DEPARTURES		TOTALS			
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	DWELLS	Rate	Days	DWELLS	Rate	Days	DWELLS	Rate
00:00 - 01:00				<u> </u>					
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	6	73	0.068	6	73	0.189	6	73	0.257
08:00 - 09:00	6	73	0.126	6	73	0.253	6	73	0.379
09:00 - 10:00	6	73	0.107	6	73	0.142	6	73	0.249
10:00 - 11:00	6	73	0.098	6	73	0.105	6	73	0.203
11:00 - 12:00	6	73	0.082	6	73	0.107	6	73	0.189
12:00 - 13:00	6	73	0.103	6	73	0.094	6	73	0.197
13:00 - 14:00	6	73	0.100	6	73	0.100	6	73	0.200
14:00 - 15:00	6	73	0.107	6	73	0.132	6	73	0.239
15:00 - 16:00	6	73	0.208	6	73	0.155	6	73	0.363
16:00 - 17:00	6	73	0.240	6	73	0.126	6	73	0.366
17:00 - 18:00	6	73	0.272	6	73	0.189	6	73	0.461
18:00 - 19:00	6	73	0.185	6	73	0.132	6	73	0.317
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			1.696			1.724			3.420

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

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Parameter summary

Trip rate parameter range selected:	16 - 228 (units:)
Survey date date range:	01/01/12 - 19/10/18
Number of weekdays (Monday-Friday):	6
Number of Saturdays:	0
Number of Sundays:	0
Surveys automatically removed from selection:	0
Surveys manually removed from selection:	0

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are show. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.