N01 - Highways Technical Note

Site: 2-4 Ennerdale Road, Richmond

Prepared by: WMC Approved by: DM

Date: 25 October 2024



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1.0 Introduction

- 1.1 This Highways Technical Note has been prepared on behalf of The Park Property Group to provide highways and transportation advice in relation to development proposals at 2-4 Ennerdale Road, Richmond, London (herein after referred to as 'the site'). The site falls within the administrative boundary of London Borough of Richmond-Upon-Thames (LBRT).
- 1.2 The site comprises of a former care home set across a number of linked buildings. The development proposals seek the partial conversion and re-development of the existing buildings to provide seven residential dwellings. Access to the dwellings is to be achieved via new crossovers fronting the north of Ennerdale Road, which have been designed in accordance with Richmond-Upon-Thames crossover design guidance. Car and cycle parking is to be provided in accordance with London Plan policy standards.
- 1.3 To accommodate the proposed crossovers, a section of on-street parking bays are proposed to be removed. To demonstrate that the removal of the on-street parking bays on Ennerdale Road will not have a detrimental impact on the car parking capacity of Ennerdale Road and the surrounding highway network, parking beat surveys were undertaken using the established Richmond methodology.
- 1.4 As such, this Highways Technical Note provides an overview of the development proposals, including access and parking arrangements, and details the aforementioned parking surveys, providing a summary of the findings, interpretations and conclusions.



2.0 Baseline Conditions

2.1 The site is situated in a residential area within the northeast of the Richmond district and has direct frontage access onto Ennerdale Road. The site benefits from close proximity to bus stops to east on B353 Sandycombe Road, in addition to a number of on-street parking opportunities within the vicinity of the site. The site location is illustrated below in Figure 2.1.

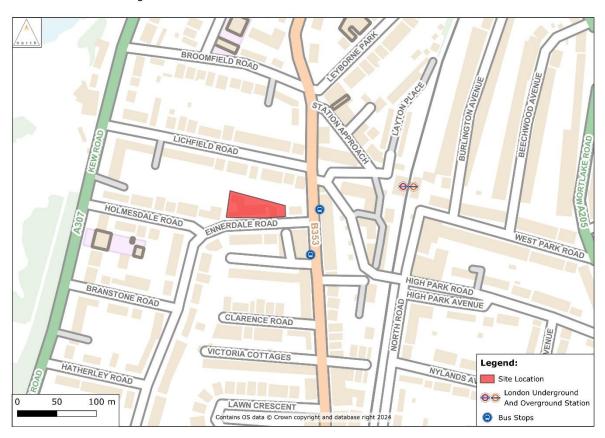


Figure 2.1 - Site Location

Local Highway Network

2.2 Ennerdale Road is a two-way single carriageway residential road subject to a speed limit of 20 miles per hour. To the east, Ennerdale Road forms a priority junction with Sandycombe Road, a two-way single carriageway orientated on a north-south axis subject to a speed limit of 20 miles per hour. Sandycombe Road provides a connection towards the A205 Mortlake Road and the M4 to the north and the A316 Lower Richmond Road to the south.



Existing Parking Infrastructure

2.3 The site benefits from a number of existing on-street parking opportunities. These include permit holder bays across the majority of the extent of Ennerdale Road, as well as additional permit holder bays on Holmesdale Road, Branstone Road and Lichfield Road. The existing on-street parking infrastructure is illustrated below in Figure 2.2.

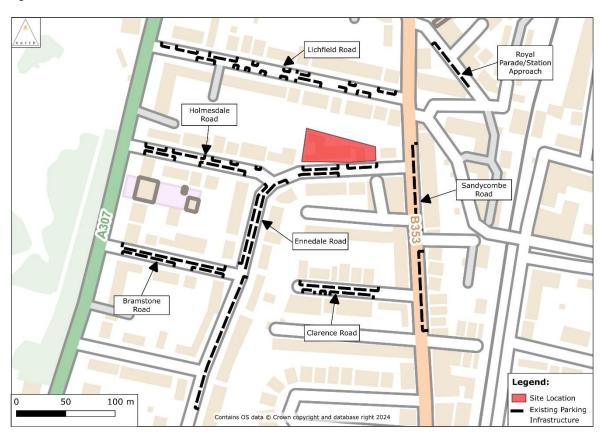


Figure 2.2 - Existing Parking Infrastructure

Public Transport Accessibility

- 2.4 Transport for London has published guidance on Public Transport Accessibility Levels (PTAL), providing criteria for the identification of public transport access points (e.g. stops and station) that are within walking distance of an application site.
- 2.5 It is noted that PTAL provides a score which reflects access to public transport services (as opposed to accessibility by public transport) assuming a threshold of 640 metres to a bus stop and 940 metres to a railway or tube station. It does not consider:
 - ▶ The speed or utility of accessible services;
 - Crowding, including the ability to board services; or
 - Ease of interchange.
- 2.6 PTAL ratings range from 1-6, with 6 being high and 1 being low. The TfL PTAL calculator indicates that the site achieves a PTAL of 2/3, demonstrating that the site has reasonable access to public transport. The PTAL output is illustrated below in Figure 2.3.





Figure 2.3 - Public Transport Accessibility Level of the Site

Accessibility by Bus

2.7 The nearest bus stops to the site are the Kew Gardens Station bus stops located on Sandycombe Road approximately 85 metres north of the site. The bus stops service the 110 bus route from School Road, Hounslow to Hammersmith Bus Station via Hanworth, Richmond and Chiswick. A summary of the 110 bus route is provided below in Table 2.1 below.

Bus Service		Frequency of Services		
	Route	Monday- Friday	Saturday	Sunday
110	School Road – Simpson Road – Whitton Corner – Ryecroft Avenue – Whitton Station – Twickenham Stadium – Poplar Court – George Street – Kew Gardens Station – Kew Bridge – Turnham Green Church – Ravenscourt Park – Hammersmith Bus Station	1 Service every 20 minutes	1 Service every 20 minutes	1 Service every 20 minutes

Table 2.1 - Local Bus Services



Accessibility by Rail

2.8 The nearest railway station to the site is Kew Gardens station located to the east of Station Parade approximately 200 metres east of the site, equivalent to a 3-minute walk or a 1-minute cycle. Kew Gardens railway station provides both overground and underground services to a number of destinations within London. Overground services include frequent services to Richmond and Stratford, whereas the underground services operate on the District Line and provide frequent services between Richmond and Upminster. A summary of the rail services available at Kew Gardens station is provided below in Table 2.2.

		Frequency of Services				
Bus Service	Route	Monday- Friday	Saturday	Sunday		
Overground						
Richmond	Kew Gardens – Richmond (Direct Route)	10 services per hour	1 service every 15 minutes	1 service every 15 minutes		
Stratford	Kew Gardens – Gunnersby – South Acton – Acton Central – Willesden Junction – Kensal Rise – Brondesbury Park – Brondesbury – West Hampstead – Finchley Road & Frognal – Hampstead Heath – Gospel Oak – Kentish Town West – Camden Road – Caledonian Road – Highbury & Islington – Canonbury – Dalston Kingsland – Hackney Central – Homerton – Hackney Wick – Stratford	1 service every 15 minutes	1 service every 15 minutes	1 service every 15 minutes		
Underground						
District Line	Richmond - Kew Gardens - Gunnersbury Park - Turnham Park - Hammersmith - Gloucester Road - South Kensington - Victoria - St. James' Park - Embankment - Blackfriars - Whitechapel - Mile End - West Ham - Barking - Upminster	5 services per hour	5 services per hour	5 services per hour		

Table 2.2 - Local Rail Services



3.0 Development Proposals

Overview

- 3.1 The following text outlines the development proposals and provides details of the associated access and parking arrangements.
- 3.2 The site comprises of a former care home set across a number of linked buildings. The development proposals seek the partial conversion and re-development of the existing buildings to provide seven residential dwellings. The site layout plan is included in Appendix A.

Access Arrangements

- 3.3 Access to six of the residential dwellings is to be achieved via new individual crossovers on the northern side of Ennerdale Road. A total of six new crossovers are to be provided on Ennerdale Road. The seventh dwelling will make use of an existing crossover.
- 3.4 The crossovers have been designed in accordance with standards contained in London Borough of Richmond's 'Highways Authority Requirements' Supplementary Planning Guidance Document (November 2023). As such, it has been ensured that:
 - ▶ Parking space sizes are no bigger than 2.4 metres in width by 4.8 metres in length;
 - Parking spaces are designed at a 90 degree angle to the footway;
 - Parking spaces are not situated in front of the main door to the residential properties; and
 - ▶ The size of the parking space will allow vehicles to be parked without overhanging the footway.
- 3.5 The drawing included in **Appendix B** demonstrates the proposed parking arrangements. Each individual dwelling will be provided with a crossover measuring 2.4 metres in width, with an additional 0.6 metres of kerb upstand either side of the crossover.

Parking Standards

Parking standards for residential developments in London are contained within the Table 10.3 of The London Plan (2021). The applicable parking standards are contained within Table 3.1 below.

Land Use	Parking Standards		
Residential (including	PTALs 0-1: Up to 1.5 spaces per dwelling		
conversion/extension of building)	PTALs 2-3: Up to 1 space per dwelling		
- Outer London	PTAL 4 – Up to 0.5-0.75 spaces per dwelling		

Table 3.1 - Local Parking Standards (The London Plan - Table 10.3 'Residential Parking Standards')

- 3.7 The site is located within a Public Transport Accessibility Level (PTAL) area of 2/3. Therefore, The London Plan parking standards as contained within the Local Plan suggest that seven car parking spaces should be provided, an individual space for each dwelling. In order to provide dedicated crossovers and parking spaces for the residential dwellings, a total of three parking spaces on-street will be lost. This is as shown on the aforementioned drawing comparing the existing parking arrangement with the proposals. The following section details the impact of the loss of three parking spaces on local parking availability and stress.
- 3.8 The London Plan cycle parking standards for dwellings of this size require two cycle spaces per dwelling. It is considered that each dwelling will benefit from sufficient space to the rear of the property such that each dwelling could provide a shed with sufficient space for two cycles. It is envisaged that further detail could be secured by way of a planning condition.



4.0 Development Impact

Parking Beat Surveys

4.1 As previously mentioned, the proposed crossovers will result in the loss of approximately three parking spaces on Ennerdale Road. To assess the impact of the development proposals on the existing parking arrangements and calculate residential 'parking stress', parking beat surveys were carried out to the established 'Richmond methodology'. The Richmond methodology involves two weekday night surveys and one weekend night survey between 01:00-05:30. The area surveyed must cover a 200 metre walking distance around the site. The surveyed area is illustrated in Figure 4.1 below.

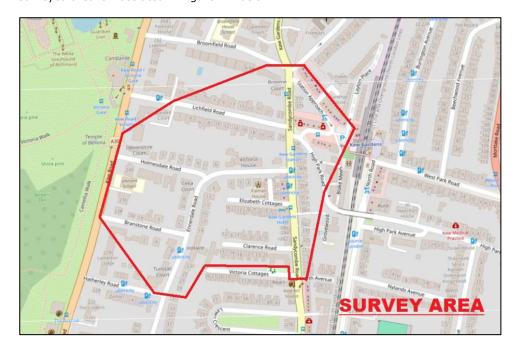


Figure 4.1 - Parking Beat Survey Study Area

- 4.2 Parking beat surveys were conducted on Sunday 29th September at 05:15, Tuesday 1st October at 04:45 and Wednesday 2nd October at 04:55 and a summary of the surveyed roads is as follows:
 - ▶ Ennerdale Road;
 - Holmesdale Road;
 - Branstone Road;
 - Lichfield Road;
 - Clarence Road;
 - Sandycombe Road;
 - High Park Road;
 - Station Approach; and
 - Station Parade.
- 4.3 A summary of the parking stress calculations is provided below in Table 3.1, whilst the raw survey data ins included in **Appendix C**.



Road	Number of Parking Spaces	Sunday 29 th September 2024	Tuesday 1st October 2024	Wednesday 2 nd October 2024	Average Number Parked
Ennerdale Road	63	26	31	32	30
Holmesdale Road	28	11	14	15	13
Branstone Road	28	16	13	11	13
Lichfield Road	29	13	12	13	13
Clarence Road	29	21	20	20	20
Sandycombe Road	35	30	26	27	28
High Park Road	6	4	4	5	4
Station Approach	27	5	5	5	5
Station Parade	13	3	5	4	4
Total	258	129	130	133	131
% Stress	-	50%	50%	52%	
Average Calculated Parking Stress					51%

Table 4.1 - Summary of Parking Stress Calculations

- 4.4 Table 4.1 above demonstrates that there are a total of 258 parking spaces within a 200 metre radius of the site. Across the three study periods, there is a parking demand averaging 51%. The highest recorded stress was 52% on the 2nd October, where 133 of the observed 258 car parking spaces were occupied. Alternatively, the lowest recorded stress was 50% on the 29% September, where 129 of the observed 258 parking spaces were occupied.
- 4.5 In the assumption of a worst-case scenario, in which three parking spaces are lost as a result of the development proposals, the total on available parking spaces would fall to 255. Table 3.2 below demonstrates the impact the loss of three parking spaces would have on local parking stress.

	Number of Parking Spaces	Sunday 29 th September 2024	Tuesday 1st October 2024	Wednesday 2 nd October 2024	Average Number Parked
Total Number of Parking Spaces (258)	258	129	130	133	131
Adjusted Number of Parking Spaces (255)	255	129	130	133	131
% Stress (Adjusted for lost of three parking spaces)	-	51%	51%	52%	51%

Table 4.2 - Adjusted Number of Parking Spaces from 258 to 255 and Adjusted Parking Stress

4.6 Table 4.2 above demonstrates that, in the event of a worst-case scenario by which a total of three car parking spaces are lost, parking stress within a 200 metre radius of the site remains at 51% which falls below 85%, the threshold for high occupancy within parking stress surveys. Therefore, it can be concluded that the development proposals will not adversely impact local parking availability within the vicinity of the site.



5.0 Summary and Conclusions

- This Highways Technical Note has been prepared on behalf of The Park Property Group to provide highways and transportation advice in relation to the development proposals at 2-4 Ennerdale Road, Richmond, London. The site falls within the administrative boundary of London Borough of Richmond-Upon-Thames (LBRT).
- 5.2 The site comprises of a former care home set across a number of linked buildings. The development proposals seek the partial conversion and re-development of the existing buildings to provide seven residential dwellings. Access to the dwellings is to be achieved via new crossovers fronting the north of Ennerdale Road, which have been designed in accordance with Richmond-Upon-Thames design guidance. Car and cycle parking is to be provided in accordance with local policy standards.
- 5.3 This Highways Technical Note has demonstrated that the development proposals will not have an adverse impact on local parking availability and will not exacerbate parking stress. In addition, the proposed crossovers have been designed with reference to the London Borough of Richmond's 'Highways Authority Requirements' Supplementary Planning Guidance Document (November 2023)



Appendix A

Site Layout Plan

PLANNING





MICHAEL JONES ARCHITECTS

020 8948 1863 | 129 Kew Road, Richmond, TW9 2PN www.mjarchitects.co.uk | studio@mjarchitects.co.uk

2-4 Ennerdale Road

Park Property Group

drawing title scale 1:200®A3

Proposed Site Plan date Sep 2024

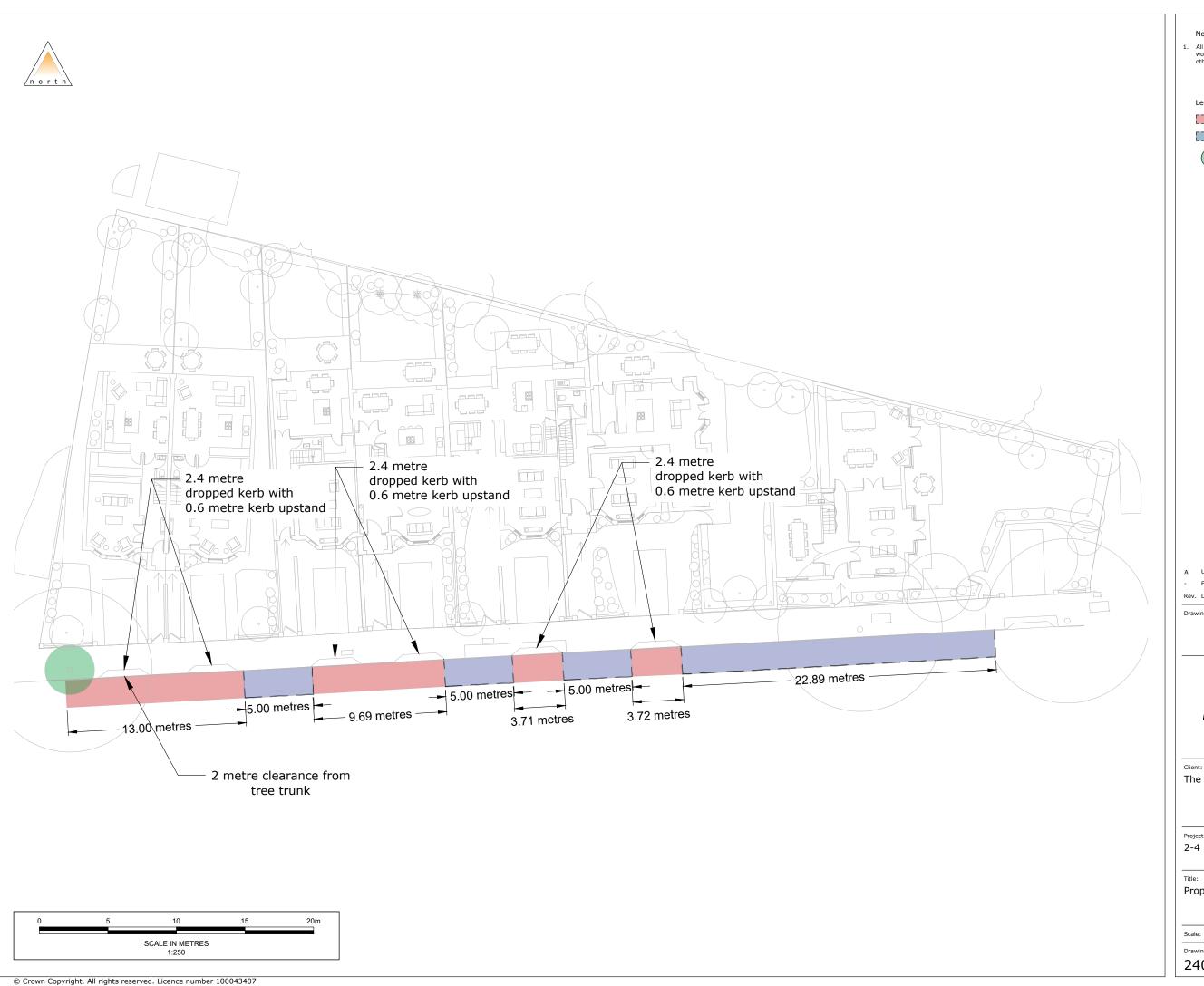
drawing number rev drawn by GL

2041.03.03.Pln01.002.A A



Appendix B

Motion Drawing 2409024-05 – Proposed Parking Arrangements



All levels and dimensions to be checked on site before any work commences. All dimensions in metres unless stated otherwise.

Legend:

Lost Parking Space

Retained Parking Space



A Updated Site Lavout

WMC DM DM 22/10/2024

FOR PLANNING NOT FOR CONSTRUCTION



The Park Property Group

2-4 Ennerdale Road, Richmond

Proposed Parking Arrangements

Scale: 1:250 (@ A3)

2409024-05

Revision:

Α



Appendix C

Parking Beat Survey Results

2 - 4 ENNERDALE ROAD, KEW TW9 3PG.

PARKING STRESS SURVEY

RESULTS SURVEY LOCATION PLAN PARKING RESTRICTION PLANS PARKED VEHICLE LOCATION PLANS

OCTOBER 2024

RICHMOND METHODOLOGY



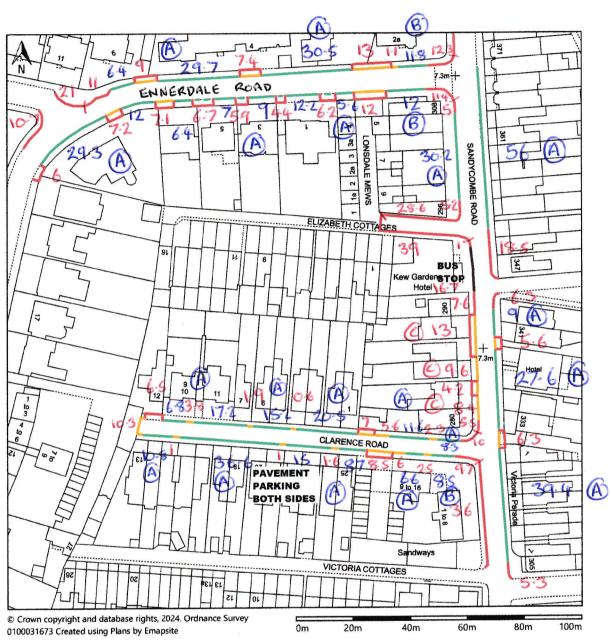
2 - 4 ENNERDALE ROAD, KEW, RICHMOND TW9 3PG - PARKING STRESS SURVEY RESULTS

Number Of Vehicles Parked Road Name Number of Sunday Tuesday Wednesday **Average Parking Spaces** 29/09/2024 01/10/2024 02/10/2024 Number Parked 05:15 04:45 04:55 **Ennerdale Road** Holmesdale Road **Branstone Road** Lichfield Road Clarence Road Sandycombe Road High Park Road Station Approach Station Parade Total

Calculated Parking Stress = 51 %

Parking capacity based upon 5 metres per parking space.





ACCEPTABLE PARKING

DOUBLE YELLOW LINE (DYL)

SINGLE YELLOW LINE (SYL)

UNACCEPTABLE PARKING

LAMIN DROPPED KERB

DBH DISABLED BADGE HOLDER ALL MEASUREMENTS IN METRES

Scale: 1:1250

Paper Size: A4

PARKING RESTRICTIONS

A = MON - FRI 10AM - NOON PERMIT HOLDERS KA ONLY

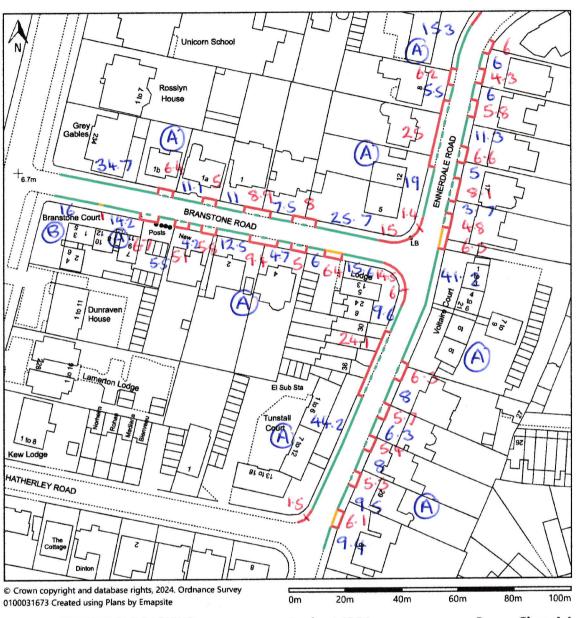
B = MON - FRI 10AM - NOON 1 HOUR, NO RETURN WITHIN 1 HOUR

C = MON - SAT 9AM - 5PM
PAY AT MACHINE, MAX STAY 2 HOURS

SYL A = MON - SAT 08:30 - 18:30

SYL B = MON - SAT 09:00 - 17:00

SYL C = MON - SUN 07:00 - 19:00



UNACCEPTABLE PARKING

L....I DROPPED KERB

DBH DISABLED BADGE HOLDER ALL MEASUREMENTS IN METRES

Scale: 1:1250

Paper Size: A4

PARKING RESTRICTIONS

A = MON - FRI 10AM - NOON PERMIT HOLDERS KA ONLY

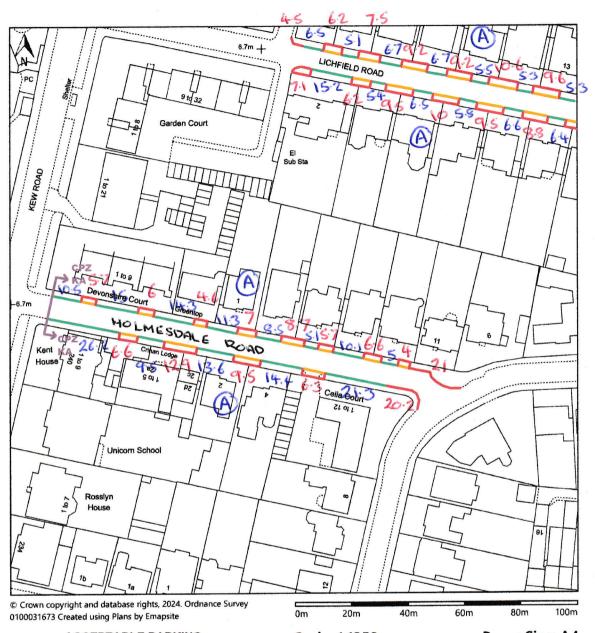
B = MON - FRI 10AM - NOON 1 HOUR, NO RETURN WITHIN 1 HOUR

C = MON - SAT 9AM - 5PM
PAY AT MACHINE, MAX STAY 2 HOURS

SYL A = MON - SAT 08:30 - 18:30

SYL B = MON - SAT 09:00 - 17:00

SYL C = MON - SUN 07:00 - 19:00



_____ UNACCEPTABLE PARKING

L....I DROPPED KERB

DBH DISABLED BADGE HOLDER ALL MEASUREMENTS IN METRES

Scale: 1:1250

Paper Size: A4

PARKING RESTRICTIONS

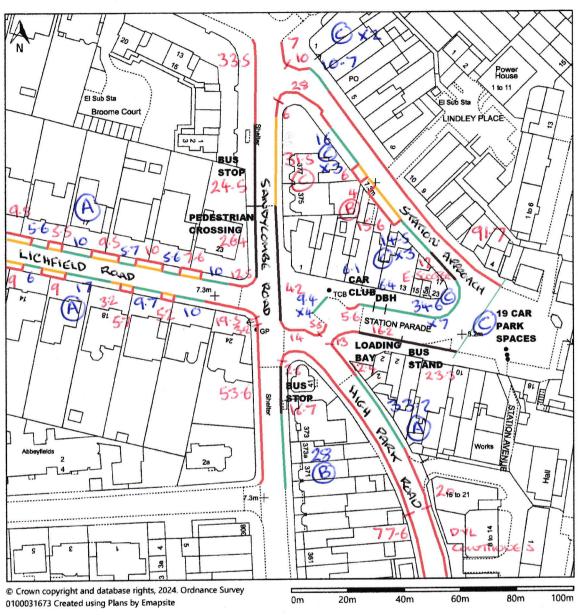
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B = MON - FRI 10AM - NOON 1 HOUR, NO RETURN WITHIN 1 HOUR

C = MON - SAT 9AM - 5PM PAY AT MACHINE, MAX STAY 2 HOURS

SYL A = MON - SAT 08:30 - 18:30 SYL B = MON - SAT 09:00 - 17:00

SYL C = MON - SUN 07:00 - 19:00



UNACCEPTABLE PARKING

L....I DROPPED KERB

DBH DISABLED BADGE HOLDER ALL MEASUREMENTS IN METRES

Scale: 1:1250

Paper Size: A4

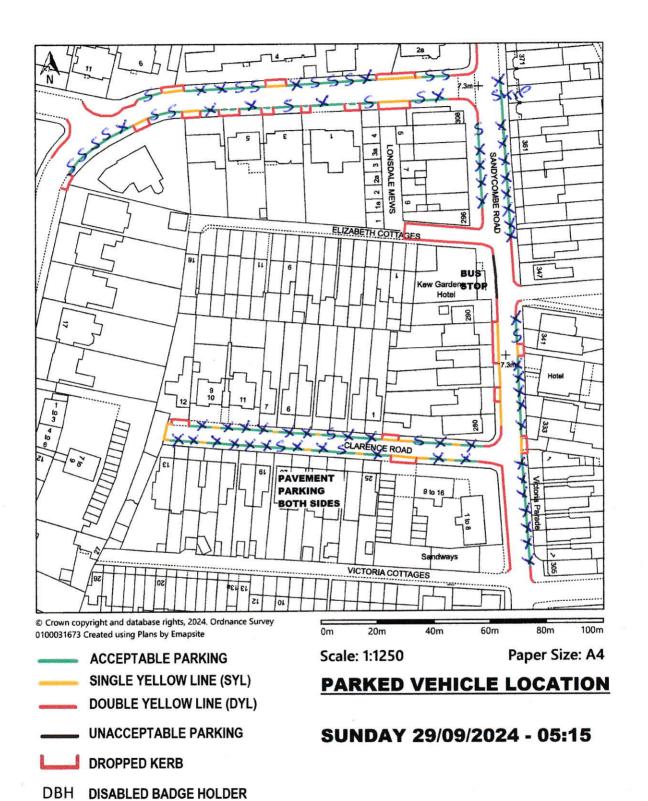
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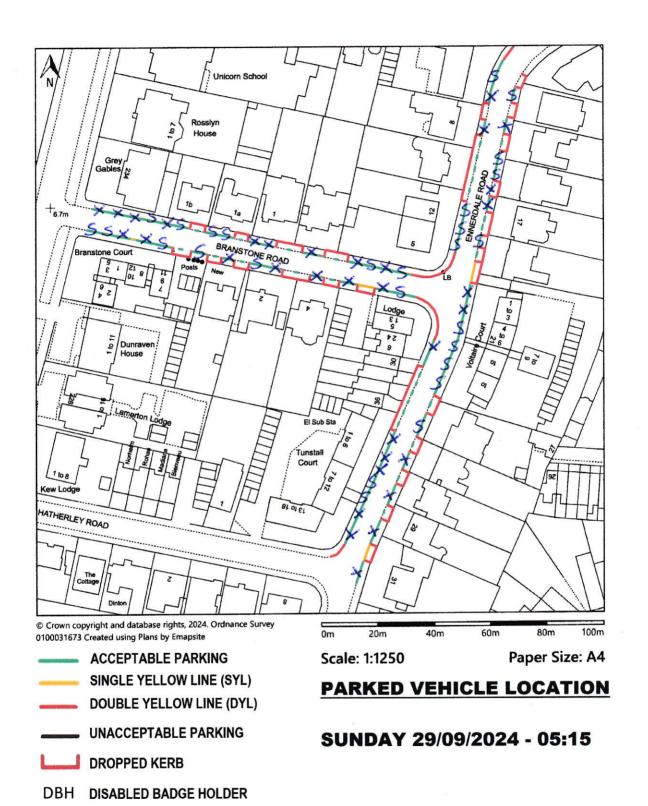
B = MON - FRI 10AM - NOON 1 HOUR, NO RETURN WITHIN 1 HOUR

C = MON - SAT 9AM - 5PM PAY AT MACHINE, MAX STAY 2 HOURS

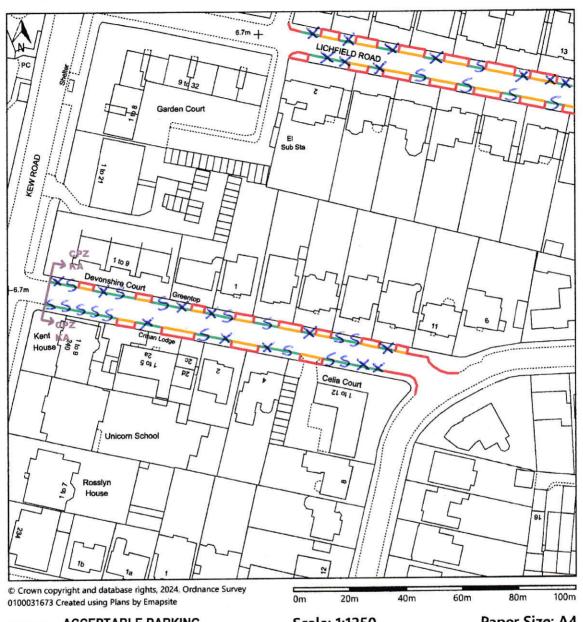
SYL A = MON - SAT 08:30 - 18:30 SYL B = MON - SAT 09:00 - 17:00 SYL C = MON - SUN 07:00 - 19:00



ALL MEASUREMENTS IN METRES



ALL MEASUREMENTS IN METRES



UNACCEPTABLE PARKING

■ DROPPED KERB

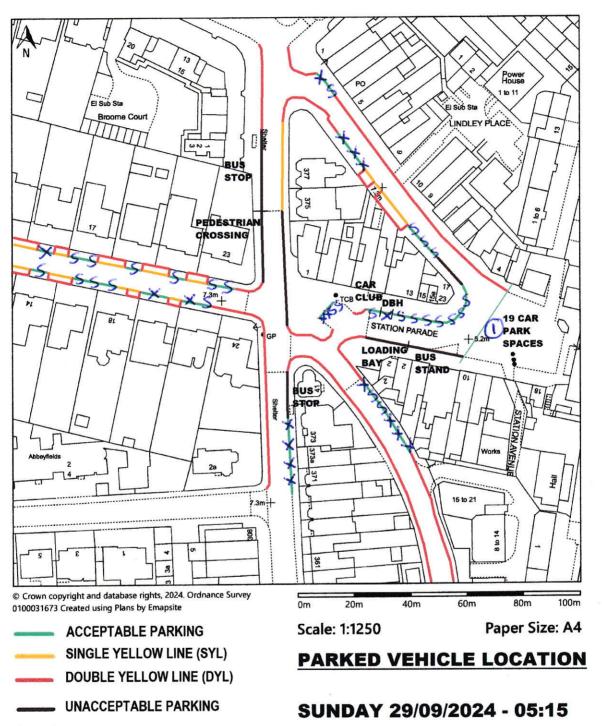
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Paper Size: A4

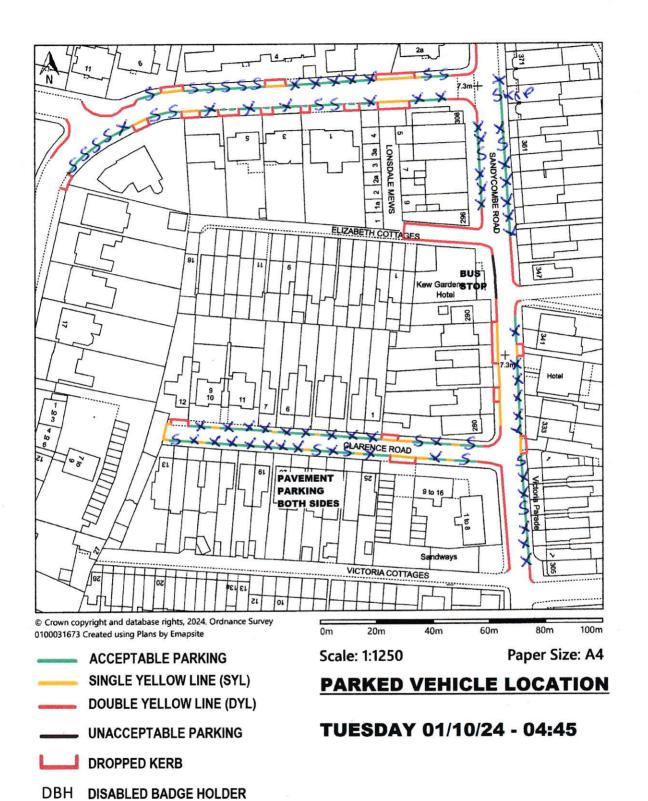
PARKED VEHICLE LOCATION

SUNDAY 29/09/2024 - 05:15

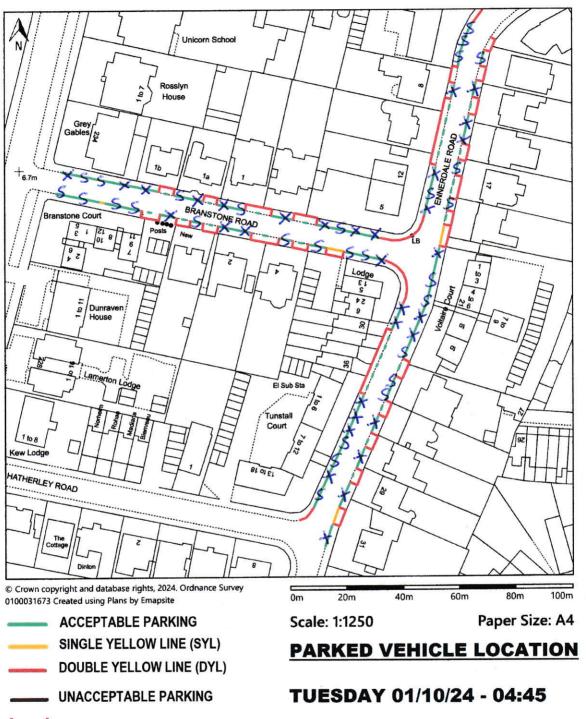


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DBH DISABLED BADGE HOLDER ALL MEASUREMENTS IN METRES

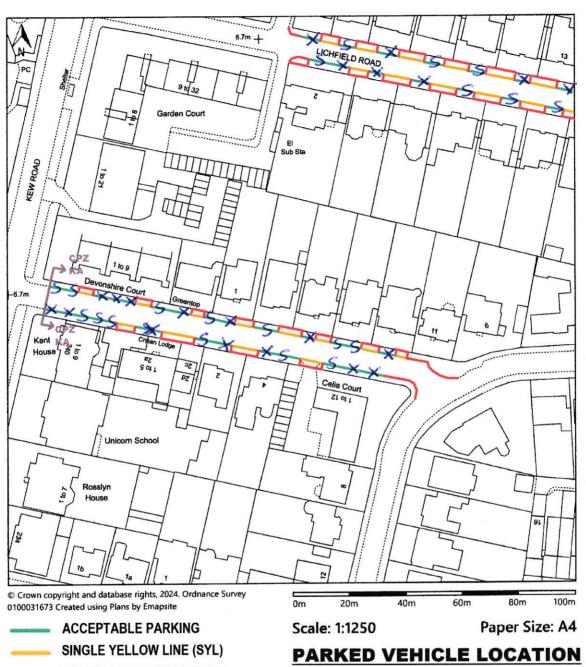


ALL MEASUREMENTS IN METRES



DROPPED KERB

DBH DISABLED BADGE HOLDER ALL MEASUREMENTS IN METRES



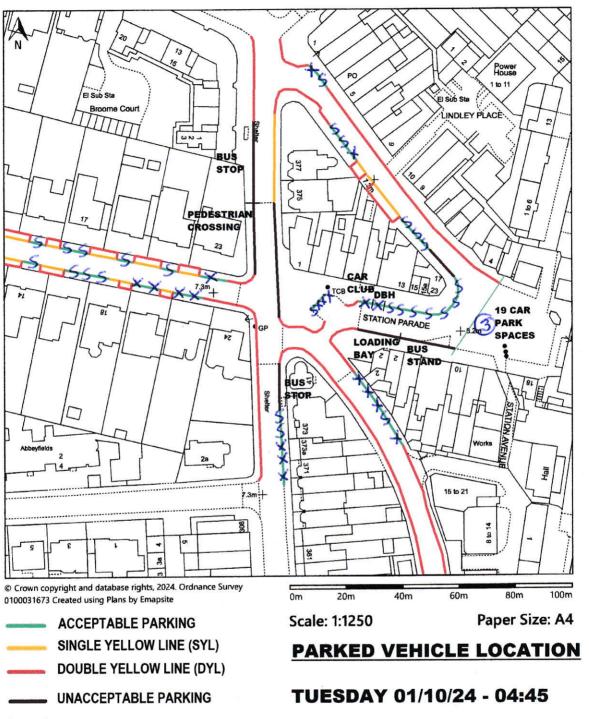
DOUBLE YELLOW LINE (DYL)

UNACCEPTABLE PARKING

DROPPED KERB

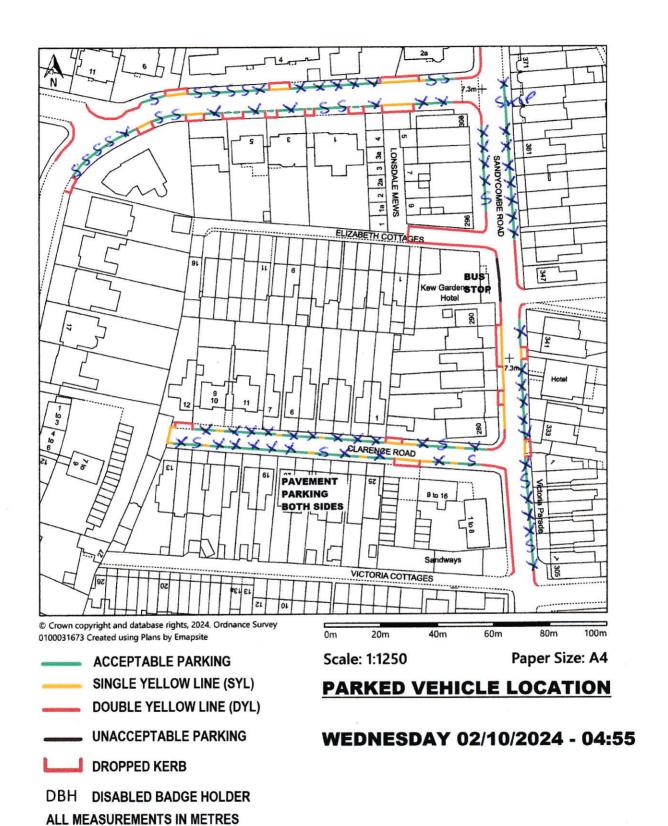
DBH DISABLED BADGE HOLDER **ALL MEASUREMENTS IN METRES**

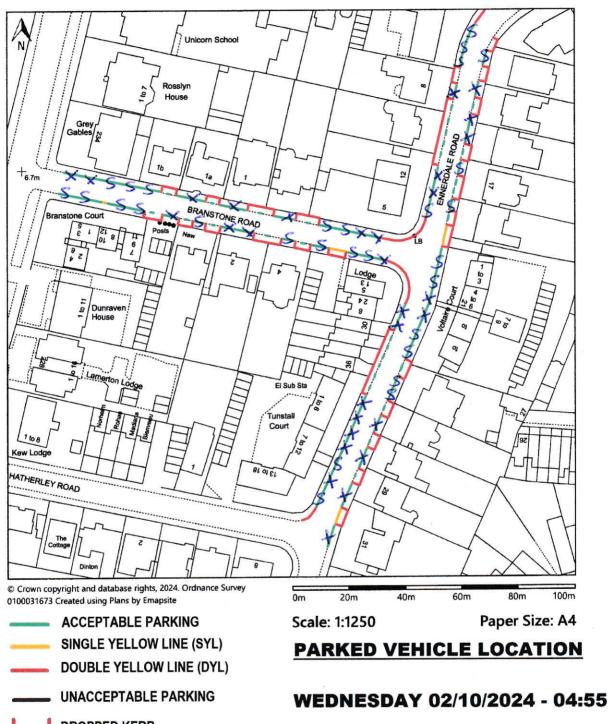
TUESDAY 01/10/24 - 04:45



L...... DROPPED KERB

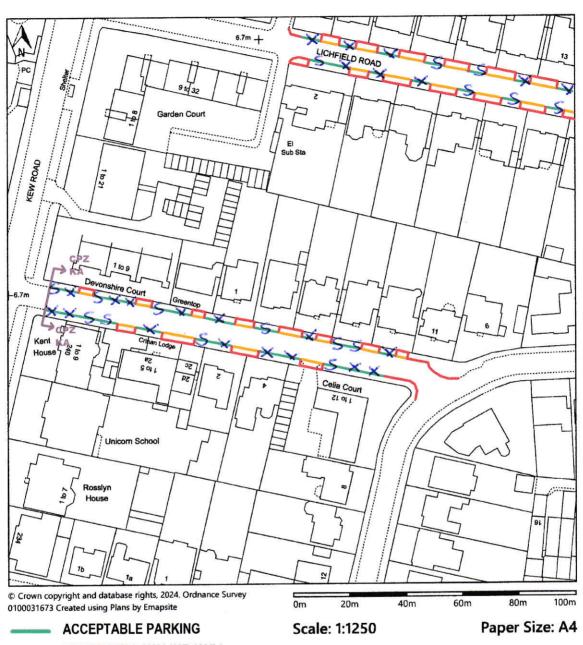
DBH DISABLED BADGE HOLDER ALL MEASUREMENTS IN METRES





DROPPED KERB

DBH DISABLED BADGE HOLDER ALL MEASUREMENTS IN METRES



SINGLE YELLOW LINE (SYL)

DOUBLE YELLOW LINE (DYL)

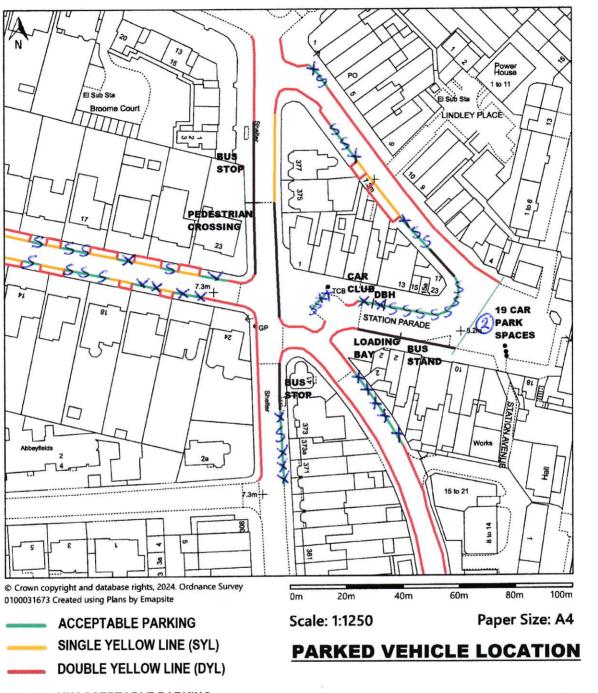
UNACCEPTABLE PARKING

LAMI DROPPED KERB

DBH DISABLED BADGE HOLDER ALL MEASUREMENTS IN METRES

PARKED VEHICLE LOCATION

WEDNESDAY 02/10/2024 - 04:55



UNACCEPTABLE PARKING

DROPPED KERB

DBH DISABLED BADGE HOLDER ALL MEASUREMENTS IN METRES

WEDNESDAY 02/10/2024 - 04:55