

Land off Penlan Road, Carmarthen

Survey Data Collection Report

25 October 2024

For and on behalf of

Duncan Foster



Project Ref: 2021-611

LvW Highways Ltd
Highway, Traffic & Transport Consultants

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1 INTRODUCTION

- 1.1 LvW Highways Ltd has been commissioned by Duncan Foster to provide Highway and Transport advice related to the proposed residential development on Land off Penlan Road, Carmarthen.
- 1.2 The site location (OSGR 41133, 220911) and its surrounding area can be seen in **Figure 1** which shows an extract from the LDP Proposal Map.

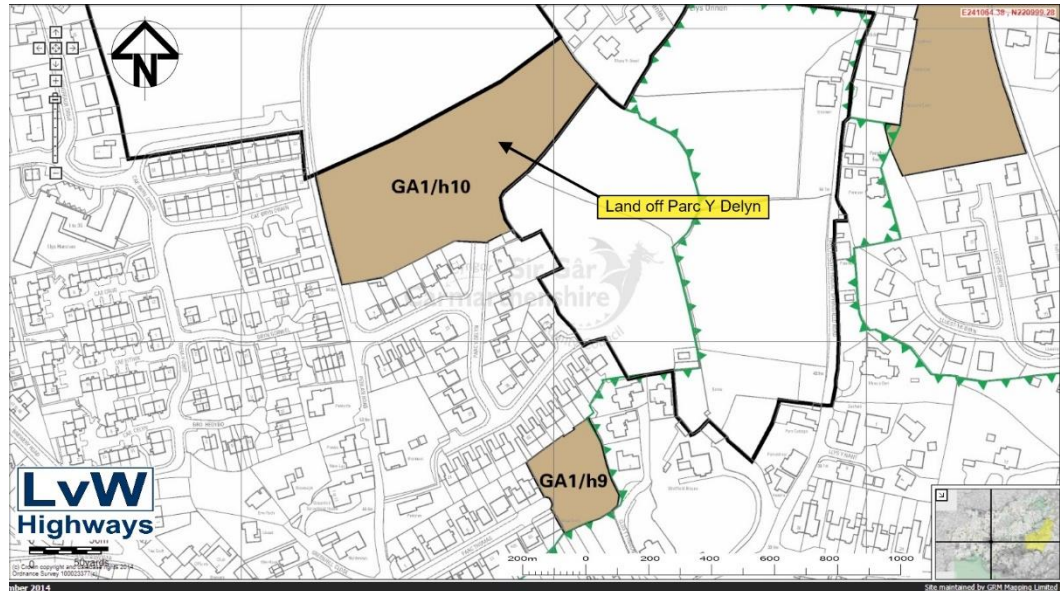


Figure 1: Extract from CCC LDP Proposals Map

- 1.3 Figure 1 shows that the proposed development is an allocated site within the Carmarthen settlement boundary. The roughly rectangular shaped land is allocated for housing.
- 1.4 The LDP has allocated and protected the land as a Growth Area within Carmarthen GA1/h10 Parc Y Delyn. It allocates the site for 35 residential dwellings. The proposed development will consist of 20 residential dwellings with access of Penlan Road, Carmarthen.
- 1.5 The site has a long history of planning application being approved and refused. Following planning application PL/06114 we have had discussions with Carmarthenshire County Council (CCC) Planning and Highway officers.
- 1.6 The following data was requested in a virtual meeting with the CCC Highways Officer and the Councils Highway Consultant from Atkins Realis.
- A survey of parking and all modes of movements along Penlan Road.
 - A revised drawing of the highway improvements along Penlan Road with emphasis on widening the carriageway for vehicular traffic whilst active travellers be directed across towards existing provision to the west of the site via Bryn Gorwel and Cae Bryn Drain.
- 1.7 This report sets out the details of the surveys undertaken in June 2024 and provides an analysis of the data collected on Penlan Road. The raw survey data was sent to the CCC Highways Officer and the Councils Highway Consultant from Atkins Realis in July 2024 once the survey results were received.

2 SURVEY

- 2.1 Carmarthenshire Council Highways Officer and the Highway Consultant from Atkins Realis asked for a parking survey, a vehicle volumetric survey and a pedestrian survey of movements on Penlan Road Carmarthen. They would like the surveys to be undertaken over two days on a Friday and Saturday.
- 2.2 The extent of the parking survey is on the western side of Penlan Road between the area of highway with no double yellow lines and shown on **Figure 2**.

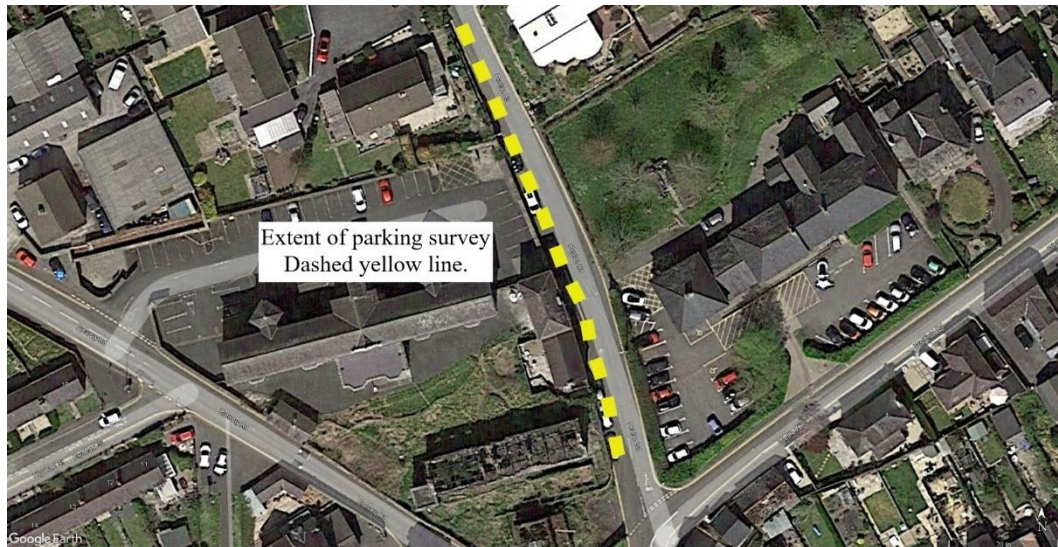


Figure 2: Parking survey location

- 2.3 Concerning the vehicle volumetric and pedestrian survey, this was undertaken at the same place as the parking survey and also at a second location where the footway from Parc y Delyn joins Penlan Road as shown on **Figure 3**.



Figure 3: Volumetric survey location

- 2.4 A reputable specialist survey company were employed to undertake both the parking and volumetric surveys. The surveys were undertaken using video cameras and the results tabulated within a spreadsheet workbook.
- 2.5 The surveys were undertaken on Friday 21st June 2024 and Saturday 22nd June 2024 between 07:00 and 19:00.

Parking Survey

2.6 The raw survey data is contained in **Appendix A**.

2.7 Table 1 shows the summary of the departures and arrivals of the vehicles parking on Penlan Road on Friday 21st June 2024.

Table 1: Parking survey on Friday

S.No	Arrival Time	Departure Time	Duration of stay	Class
1	In at start time	End of the survey time	all day < 12hrs	Car
2	In at start time	End of the survey time	all day < 12hrs	Car
3	In at start time	End of the survey time	all day < 12hrs	Car
4	In at start time	End of the survey time	all day < 12hrs	Car
5	08:15:12	16:35:23	08:20:11	Car
6	08:16:19	08:27:23	00:11:04	OGV1
7	10:29:31	12:06:44	01:37:13	Car
8	11:47:16	17:35:35	05:48:19	Car
9	12:06:36	16:20:26	04:13:50	Car
10	12:50:40	12:59:39	00:08:59	Car
11	13:17:54	17:16:49	03:58:55	Car
12	13:57:37	14:24:15	00:26:38	Car
13	14:07:54	14:10:19	00:02:25	Car
14	14:57:46	15:27:29	00:29:43	Car
15	15:26:15	15:42:04	00:15:49	Car
16	15:28:10	15:35:16	00:07:06	Car
17	15:29:18	15:59:53	00:30:35	Car
18	16:33:41	16:34:17	00:00:36	Car
19	18:12:21	End of the survey time	over night	Car

2.8 The information shows that on a weekday four vehicles are parked all day, five vehicles are parked for between 1 and 9 hours, nine vehicles are parked for less than 30 minutes and one vehicle arrived at the end of the day so we assume it was parked overnight.

2.9 Table 2 shows the summary of the departures and arrivals of the vehicles parking on Penlan Road on Saturday 22nd June 2024.

Table 2: Parking Survey on Saturday

S.No	Arrival Time	Departure Time	Duration of stay	Class
1	In at start time	End of the survey time	all day < 12hrs	Car
2	In at start time	End of the survey time	all day < 12hrs	Car
3	In at start time	07:47:56	over night	Car
4	In at start time	11:21:46	over night	Car
5	In at start time	End of the survey time	all day < 12hrs	Car
6	In at start time	End of the survey time	all day < 12hrs	Car
7	07:45:52	End of the survey time	all day < 11hrs	Car
8	08:04:19	17:19:02	09:14:43	Car
9	08:14:28	16:50:02	08:35:34	Car
10	08:29:59	End of the survey time	all day < 10.5hrs	LGV
11	09:27:31	11:13:11	01:45:40	Car
12	10:01:28	11:28:05	01:26:37	Car
13	11:11:59	15:55:56	04:43:57	Car
14	11:49:15	13:07:01	01:17:46	Car
15	12:36:41	14:57:07	02:20:26	Car
16	13:53:16	End of the survey time	all afternoon < 5hrs	Car
17	13:57:26	End of the survey time	all afternoon < 5hrs	Car
18	13:58:03	14:03:33	00:05:30	Car
19	17:21:36	End of the survey time	over night	Car

2.10 The information shows that on a Saturday four vehicles are parked all day, four vehicles are parked for between 11 and 8 hours, nine vehicles are parked for between 5 and 1 hours and two vehicles are parked for less than 1 hour.

Volumetric Survey

2.11 The volumetric survey was undertaken at two locations on Penlan Road, Site 1; near its junction with Wellfield Road and Site 2; near the footway leading to Parc-Y-Delyn.

2.12 A summary of the results of the survey for the twelve hours between 07:00 and 19:00 on Friday 21st June 2024 are shown in **Table 3**.

Table 3: Summary of movements on Friday

Site	Move	Northbound	Southbound
2	Vehicles	152	152
	Pedestrians	8	19
1	Vehicles	227	236
	Pedestrians	46	58

2.13 A summary of the results of the survey for the twelve hours between 07:00 and 19:00 on Saturday 22nd June 2024 are shown in **Table 4**.

Table 4: Summary of movements on Saturday

Site	Move	Northbound	Southbound
2	Vehicles	103	112
	Pedestrians	14	19
1	Vehicles	176	187
	Pedestrians	62	74

2.14 For the number of pedestrians using the footway link from Penland Road to Parc-Y-Delyn, **Table 5** summarises the twelve hours results on Friday 21st June 2024.

Table 5: Pedestrian movements at footway link on Friday

To and From North		
Right out	Left in	U turn
2	2	0
To and From South		
Left out	Right in	U turn
10	12	1

2.15 For the number of pedestrians using the footway link from Penland Road to Parc-Y-Delyn, **Table 6** summarises the twelve hours results on Saturday 22nd June 2024.

Table 6: Pedestrian movements at footway link on Saturday

To and From North		
Right out	Left in	U turn
1	3	0
To and From South		
Left out	Right in	U turn
19	13	4

- 2.16 The Welsh Government publication 'Learner Travel Statutory Provision and Operational Guidance June 2014' at paragraph 5.9 states; - "Low traffic flow occurs on roads that have a traffic flow below 400 vehicles in a 1-hour period; medium traffic flow occurs on roads with a traffic flow between 400 to 840 vehicles per hour; and heavy traffic flow occurs on roads with a traffic flow of over 840 vehicles per hour."
- 2.17 The results show that Penlan Road (near its junction with Wellfield Road) has 463 two-way vehicle movements over 12 hours, approximately 39 two-way vehicle movements per hour therefore, Penlan Road can be considered a street that is very lightly trafficked.
- 2.18 If we add the estimated number of weekday vehicle movements from the development quoted in the Transport Statement, of 48 arrivals and 48 departures (96 two-way) then this would result in 559 two-way vehicle movements in twelve hours an average of 47 two-way movements per hour, still significantly less than the 400 referenced by the Welsh Ministers as a low traffic flow.

3 HIGHWAY IMPROVEMENTS

- 3.1 It is proposed to undertake highway improvement works to Penlan Road that focus on widening the carriageway for vehicular traffic whilst active travellers be directed across towards existing provision to the west of the site via Bryn Gorwel and Cae Bryn Drain, as requested by the Highways Officers.
- 3.2 Plans of these highway improvements are attached in **Appendix B**.

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4 SUMMARY AND CONCLUSIONS

Introduction

- 4.1 This document has been prepared in support of an application for a residential development of 20 dwellings on Land off Penlan Road, Carmarthen.

Existing Conditions

- 4.2 The site is well located in terms of access to the local road network. The main roads within the study area are Penlan Road, Parc Y Delyn, Wellfield Road and Waterloo Road.
- 4.3 There are regular local bus services serving the local towns and railway station in Carmarthen that services a range of destinations.

Proposed Development

- 4.4 The proposed development will comprise a residential development of 20 dwellings accessed via a widened Penlan Road.
- 4.5 Access to these facilities by non-motorised modes will be encouraged through the provision of footway links to the residential estates on the western side of Penlan Road, namely Bryn Gorwel and Cae Bryn Drain.
- 4.6 Parking will be provided in accordance with current standards as indicated by Carmarthenshire Council.

Traffic Generation, Distribution and Assignment

- 4.7 It is expected that the proposed development would exhibit higher levels of trips by car than foot, cycle and bus due to its location and the nature of the development.
- 4.8 All vehicles will enter and leave the site via the new driveways, being the shortest distance to the wider highway network.

Impact on the Local Highway Network

- 4.9 It has been estimated that the proposed development could attract 58 vehicle movements (arrivals) and produce 60 vehicle movements (departures) over a twelve-hour day.
- 4.10 It has been concluded that the highway network can satisfactorily accommodate the predicted traffic flows when the development is operational.

Overall Conclusion

- 4.11 This report has summarised the results of the movement survey along Penlan Road as observed in June 2024.
- 4.12 We conclude that, with respect to transport, this development complies with the Welsh Governments development guidance as set out in Planning Policy Wales and is appropriate and acceptable in traffic and transport terms. The Well-being of Future Generations Act put in place four aspects of well-being: economic, social, environmental and cultural and this development assists with meeting these aspects.

Closure

- 4.13 LvW Highways Ltd has prepared this report with all reasonable skill, care and diligence, and taking account of the manpower and resources devoted to it by

agreement with the client. Information reported herein is based on interpretation of data collected has been accepted in good faith as being accurate and fair.

- 4.14 This report is for the exclusive use of Duncan Foster no warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from LvW Highways Ltd.
- 4.15 LvW Highways Ltd disclaims any responsibility to the client and others in respect of any matters outside the agreed scope of work.

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