

ACCESS NOTE



from:	ALAN DAVIES	date:	10/3/2022
subject:	PROPOSED DWELLING WITH DRIVE ACCESS, THORNLEY HALL FARM, THORNLEY LONGRIDGE	file ref:	J1377-AN1

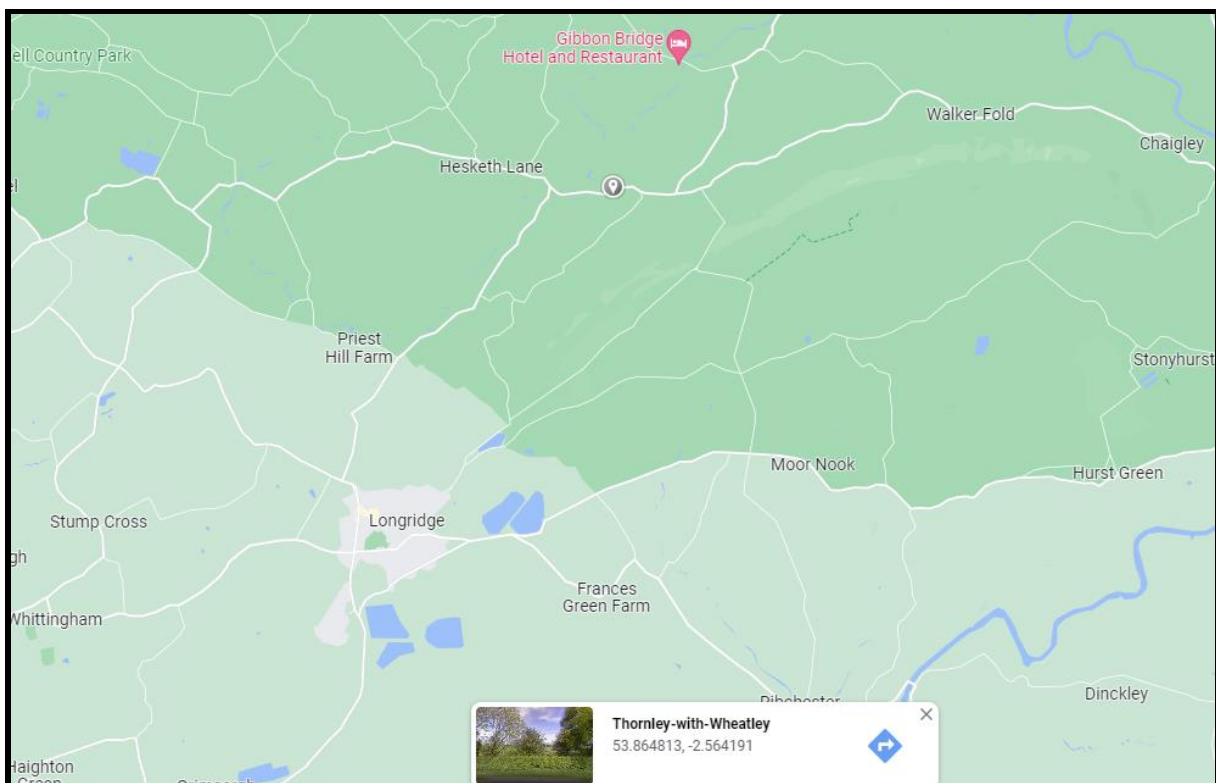
Introduction

An outline planning application is to be submitted for a new dwelling.

This Access Note sets out the support for the new access.

Setting

The site lies to the North East of Longridge and forms an existing arm complex with a single access shared by the residential aspects and the operational aspects of business.



Locally the Rock Brow - Upper Bedlam Road route runs generally east west with limited access to farms and dwellings along its length.

The proposed dwelling is on the west side of the farm and requires a new access point.



The local highway is described below with the aid of on site images to show the current situation.

The road is subject to the national speed limit but due to widths and alignment does not operate at that level from observation and surveys.

The main carriageway running past the farm is derestricted, is unlit and has no footways.

At the farm access, the visibility at a nominal set back of 2.4 metres, is restricted and there is a traffic mirror located opposite the entrance.



Approach from east towards existing farm access



Existing farm access



Continued westbound flow around bend and towards site access



Westbound past site access/left hand bend towards uphill section

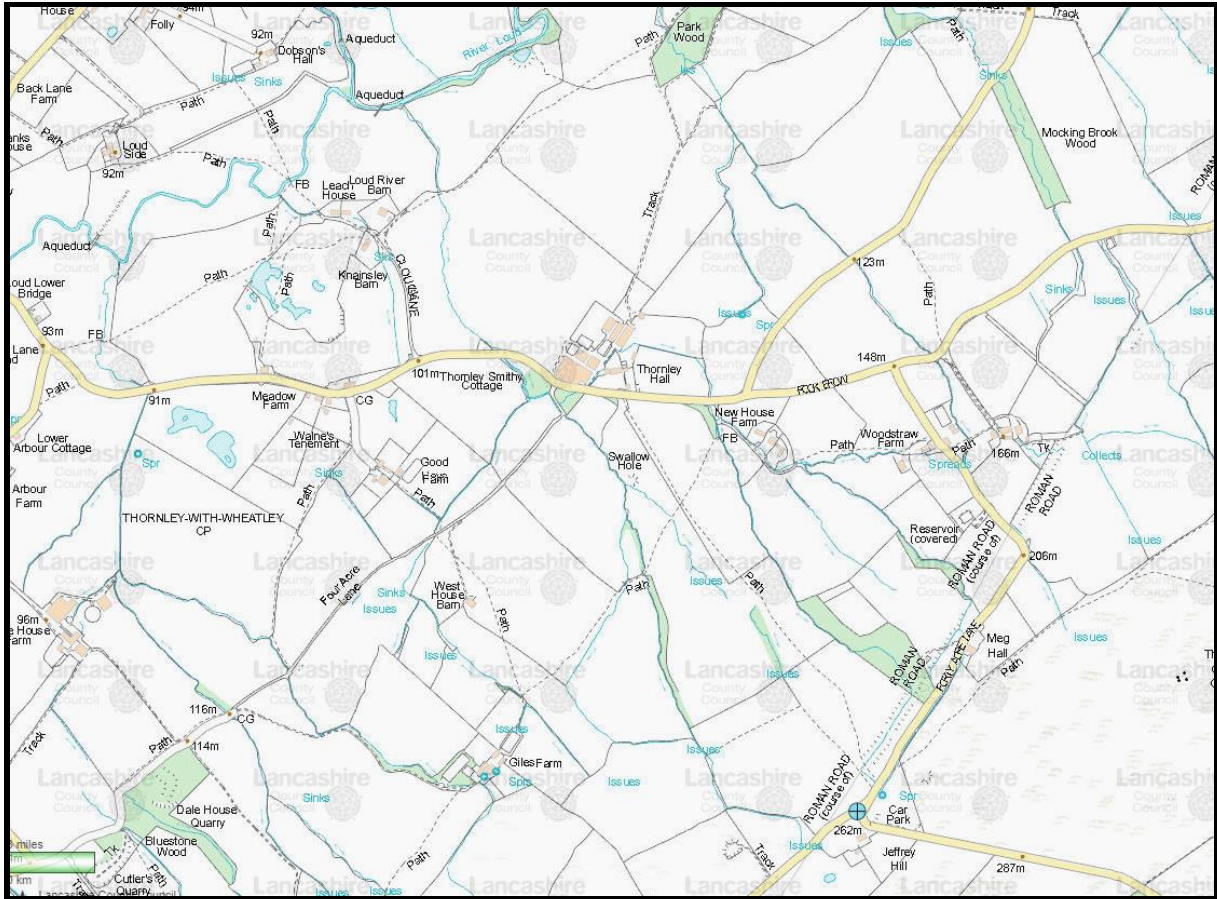


Eastbound approach towards site access and along route to sight line location for left on exit.



View left and right from proposed drive location

The Mario data base for accidents has been reviewed for the past 5 years and as shown overleaf no recorded events have taken place in the local area.



Traffic count and speed surveys have been undertaken to understand the flows along the route and the speeds in the local area based on the constrained alignment.

Two locations have been selected to gauge the change in speed along the route based on the bends etc.



The traffic flows and speed bins for each site/direction are attached appendix A.

Site 1

Eastbound							
Time Period	85th Percentile						
	Friday 17/12/2021	Saturday 18/12/2021	Sunday 19/12/2021	Monday 20/12/2021	Tuesday 21/12/2021	Wednesday 22/12/2021	Thursday 23/12/2021
00:00 - 01:00	-	-	-	-	-	-	-
01:00 - 02:00	-	-	-	-	-	-	-
02:00 - 03:00	-	-	-	-	-	-	-
03:00 - 04:00	-	-	-	-	-	-	-
04:00 - 05:00	-	-	-	-	-	-	-
05:00 - 06:00	-	-	-	-	-	-	-
06:00 - 07:00	37.2	-	-	-	-	42.5	-
07:00 - 08:00	37.6	37	-	38.5	34.9	35.5	37.3
08:00 - 09:00	34.7	36.7	34.1	35.9	34.5	34.2	35.1
09:00 - 10:00	35.3	34.7	33.5	34.6	34.9	38	38.3
10:00 - 11:00	35.4	35.9	33.6	35.6	35.6	33.8	34.5
11:00 - 12:00	32.3	35.2	32.9	36.6	34.7	34.2	39
12:00 - 13:00	38.4	33.8	34.9	35.8	36.8	32.5	34.7
13:00 - 14:00	37.7	38.1	36.4	33.3	37.1	34.1	35
14:00 - 15:00	37	34	36.7	33	33.1	34.5	35.6
15:00 - 16:00	36.2	35.7	35.3	35.8	36.3	32.9	34.4
16:00 - 17:00	37.8	34	32.5	37.3	37.5	32.6	35.1
17:00 - 18:00	36.9	35.3	39.2	35.8	36.2	37.9	37.5
18:00 - 19:00	35.1	29.4	37.9	37.9	40.3	34.6	40.3
19:00 - 20:00	35.4	30.7	35.7	38.4	37.5	39.2	37.1
20:00 - 21:00	39.1	42.6	35.9	34.8	35.9	38.8	39.4
21:00 - 22:00	-	-	-	-	43.2	45	40.8
22:00 - 23:00	-	-	-	-	-	-	40.4
23:00 - 24:00	-	-	-	-	-	-	-
07:00 - 19:00	36.1	35.2	35.1	35.6	35.9	34.3	35.8
06:00 - 22:00	36.2	35.2	35.2	35.8	36.2	34.7	36.9
06:00 - 24:00	36.4	35.2	35.3	35.9	36.2	34.7	36.9
00:00 - 24:00	36.4	35.3	35.3	35.9	36.4	34.9	37
7 Day Average Speed	30.8						
7 Day Average 85th Percentil	35.9						

Westbound							
Time Period	85th Percentile						
	Friday 17/12/2021	Saturday 18/12/2021	Sunday 19/12/2021	Monday 20/12/2021	Tuesday 21/12/2021	Wednesday 22/12/2021	Thursday 23/12/2021
00:00 - 01:00	-	-	-	-	-	-	-
01:00 - 02:00	-	-	-	-	-	-	-
02:00 - 03:00	-	-	-	-	-	-	-
03:00 - 04:00	-	-	-	-	-	-	-
04:00 - 05:00	-	-	-	-	-	-	-
05:00 - 06:00	-	-	-	-	-	-	39.1
06:00 - 07:00	39	-	-	-	38.2	-	35.8
07:00 - 08:00	37.2	35.3	-	36.2	37.2	36.1	37.3
08:00 - 09:00	33	37.7	32	37.3	34.6	37.5	36.4
09:00 - 10:00	34.8	33.6	33	34.8	33.4	34.5	35
10:00 - 11:00	32.5	34.7	32.3	33.5	35.1	32.8	35.7
11:00 - 12:00	34.1	33.7	32.3	33.9	35.4	33.4	33.7
12:00 - 13:00	32.6	35.3	30.3	34.6	32.4	32.3	34.2
13:00 - 14:00	34.8	36	33.4	33.1	35.7	32.4	33.2
14:00 - 15:00	31.4	35.4	33	33.1	33.7	34.2	32.8
15:00 - 16:00	35.4	34.9	33.8	33.2	32.8	33.4	34.9
16:00 - 17:00	35.1	33.9	35.9	34.9	34.5	33	35.7
17:00 - 18:00	35.4	34.4	34.4	36.2	36.5	35.9	33.5
18:00 - 19:00	33.1	36	-	35.6	37.8	33	37.6
19:00 - 20:00	38.4	30.7	35.9	37.8	36.8	36.3	38.5
20:00 - 21:00	39.7	-	34.9	-	39	37.7	-
21:00 - 22:00	-	-	-	35.7	-	-	-
22:00 - 23:00	-	-	35.1	35.8	-	41.7	40.3
23:00 - 24:00	-	33.6	-	-	-	34.6	-
07:00 - 19:00	34.4	35	33.1	34.4	34.8	33.6	34.9
06:00 - 22:00	34.9	34.9	33.3	34.9	35.2	34	35.1
06:00 - 24:00	35.1	34.8	33.4	34.9	35.2	34	35.2
00:00 - 24:00	35.3	35	33.6	35.2	35.5	34.2	35.5
7 Day Average Speed	30.0						
7 Day Average 85th Percent	34.9						

Site 2

Eastbound								
Time Period	85th Percentile							
	Friday 17/12/2021	Saturday 18/12/2021	Sunday 19/12/2021	Monday 20/12/2021	Tuesday 21/12/2021	Wednesday 22/12/2021	Thursday 23/12/2021	
00:00 - 01:00	-	-	-	-	-	-	-	
01:00 - 02:00	-	-	-	-	-	-	-	
02:00 - 03:00	-	-	-	-	-	-	-	
03:00 - 04:00	-	-	-	-	-	-	-	
04:00 - 05:00	-	-	-	-	-	-	-	
05:00 - 06:00	-	-	-	-	-	-	-	
06:00 - 07:00	34.4	-	-	-	-	39	-	
07:00 - 08:00	35.5	34.3	-	34.2	31.9	32.8	33.6	
08:00 - 09:00	32.8	32.5	31.8	32.6	30.8	32.8	34.6	
09:00 - 10:00	32.6	31.2	30.2	32	32.1	33.2	32.7	
10:00 - 11:00	32.8	32.2	31	32.2	32.4	30.8	30.5	
11:00 - 12:00	29.5	31.7	29.4	34.2	30.2	31.4	32.5	
12:00 - 13:00	33.7	30.6	30.8	31.6	33.5	27.5	31.6	
13:00 - 14:00	33.4	34	32.1	30.8	33.4	30.1	33.4	
14:00 - 15:00	31.8	30.6	33.3	30.2	31.1	30.9	31.5	
15:00 - 16:00	31.4	32.5	32.2	31.8	30.9	31.2	30.8	
16:00 - 17:00	35	30.3	30.8	32.4	33.1	30.8	32.1	
17:00 - 18:00	34.3	32	35.8	33.8	33.6	33.5	32.8	
18:00 - 19:00	31.2	27.3	33.7	35.1	36.2	32.9	34.2	
19:00 - 20:00	32.9	27.1	-	38	31.4	34.5	35.1	
20:00 - 21:00	37.5	35.8	31.7	29.6	33.6	35.5	35.2	
21:00 - 22:00	-	-	-	-	39.1	42.1	38.3	
22:00 - 23:00	-	-	-	-	-	-	34	
23:00 - 24:00	-	-	-	-	-	-	-	
07:00 - 19:00	32.7	31.7	31.7	32	32.3	31.3	32.2	
06:00 - 22:00	33	31.7	31.7	32.3	32.5	31.8	32.7	
06:00 - 24:00	33.1	31.7	31.8	32.4	32.6	31.9	32.7	
00:00 - 24:00	33.1	31.8	31.8	32.4	32.7	31.9	32.9	
7 Day Average Speed							27.2	
7 Day Average 85th Percentil							32.4	

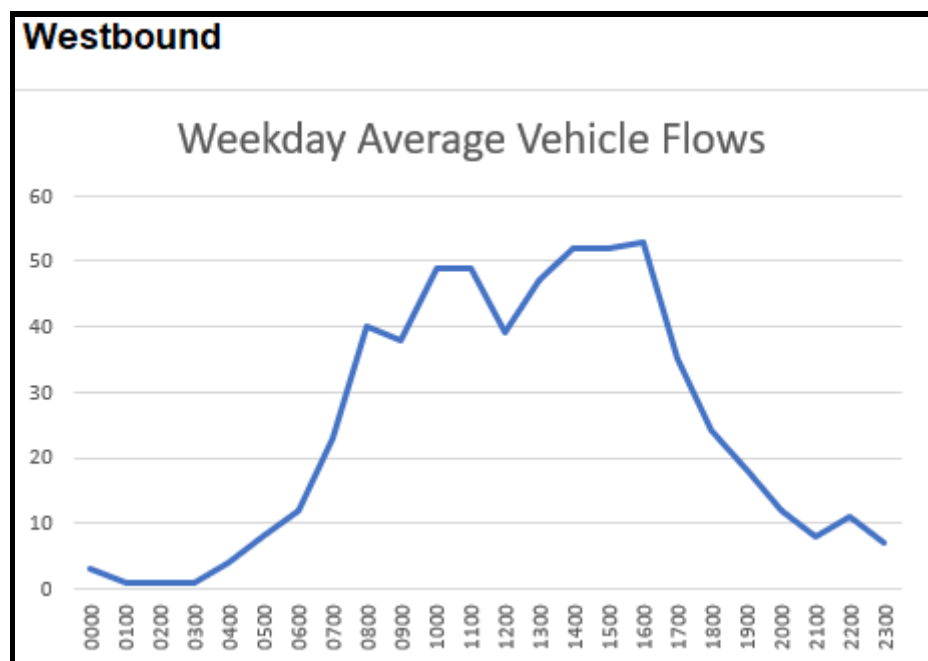
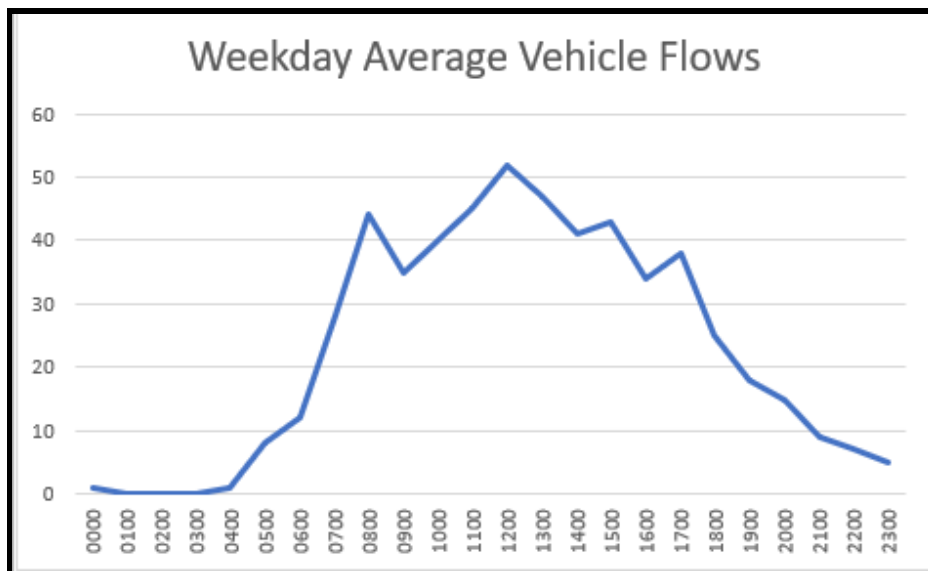
Westbound								
Time Period	85th Percentile							
	Friday 17/12/2021	Saturday 18/12/2021	Sunday 19/12/2021	Monday 20/12/2021	Tuesday 21/12/2021	Wednesday 22/12/2021	Thursday 23/12/2021	
00:00 - 01:00	-	-	-	-	-	-	-	
01:00 - 02:00	-	-	-	-	-	-	-	
02:00 - 03:00	-	-	-	-	-	-	-	
03:00 - 04:00	-	-	-	-	-	-	-	
04:00 - 05:00	-	-	-	-	-	-	-	
05:00 - 06:00	-	-	-	-	-	-	36	
06:00 - 07:00	37.9	-	-	-	36.5	-	33.4	
07:00 - 08:00	33.5	32	-	32.1	35.3	35.5	34.8	
08:00 - 09:00	32.2	36.1	31	34.3	33.6	35.2	32.9	
09:00 - 10:00	33.9	30.7	30.7	30	30.4	31.7	32.1	
10:00 - 11:00	32.5	31.2	29.1	30.3	33.8	30.5	30.6	
11:00 - 12:00	31.4	29.8	29.3	30.2	32.7	30.1	29.9	
12:00 - 13:00	29.3	32.2	28.6	31.8	28.9	29.6	29.2	
13:00 - 14:00	31.7	32.1	30.3	30.9	31.5	30	30.2	
14:00 - 15:00	28.8	31.2	30.8	28.6	30.6	31.5	30.1	
15:00 - 16:00	32.7	30.9	31.1	30.2	30.8	30.7	31.5	
16:00 - 17:00	32.2	29.1	32.2	31.8	31.1	31.5	32.1	
17:00 - 18:00	31.5	31	30.3	33.3	33.7	30.6	27.7	
18:00 - 19:00	32.3	32.1	-	33.6	37.5	29.6	34.8	
19:00 - 20:00	33.6	29.1	32.2	35.8	35	31.7	35	
20:00 - 21:00	36.2	-	30.2	-	37.5	36.1	-	
21:00 - 22:00	-	-	-	32.7	-	-	-	
22:00 - 23:00	-	-	32	33.2	-	37.6	35.4	
23:00 - 24:00	-	29.1	-	-	-	32	-	
07:00 - 19:00	31.9	31.2	30.2	31.2	32.2	31.2	31.3	
06:00 - 22:00	32.2	31	30.3	31.8	32.8	31.2	31.8	
06:00 - 24:00	32.3	30.9	30.4	31.7	32.8	31.3	31.9	
00:00 - 24:00	32.5	31.2	30.5	31.8	33	31.7	32.1	
7 Day Average Speed							26.8	
7 Day Average 85th Percentil							31.8	

The results shows that vehicles travelling east (right sight line) slow across the site access approaching the bend and those travelling westwards (left sight line) increase speed slightly but all well under the posted speed limit.

Using the above the sight lines have been reviewed using the different criteria in guidance.

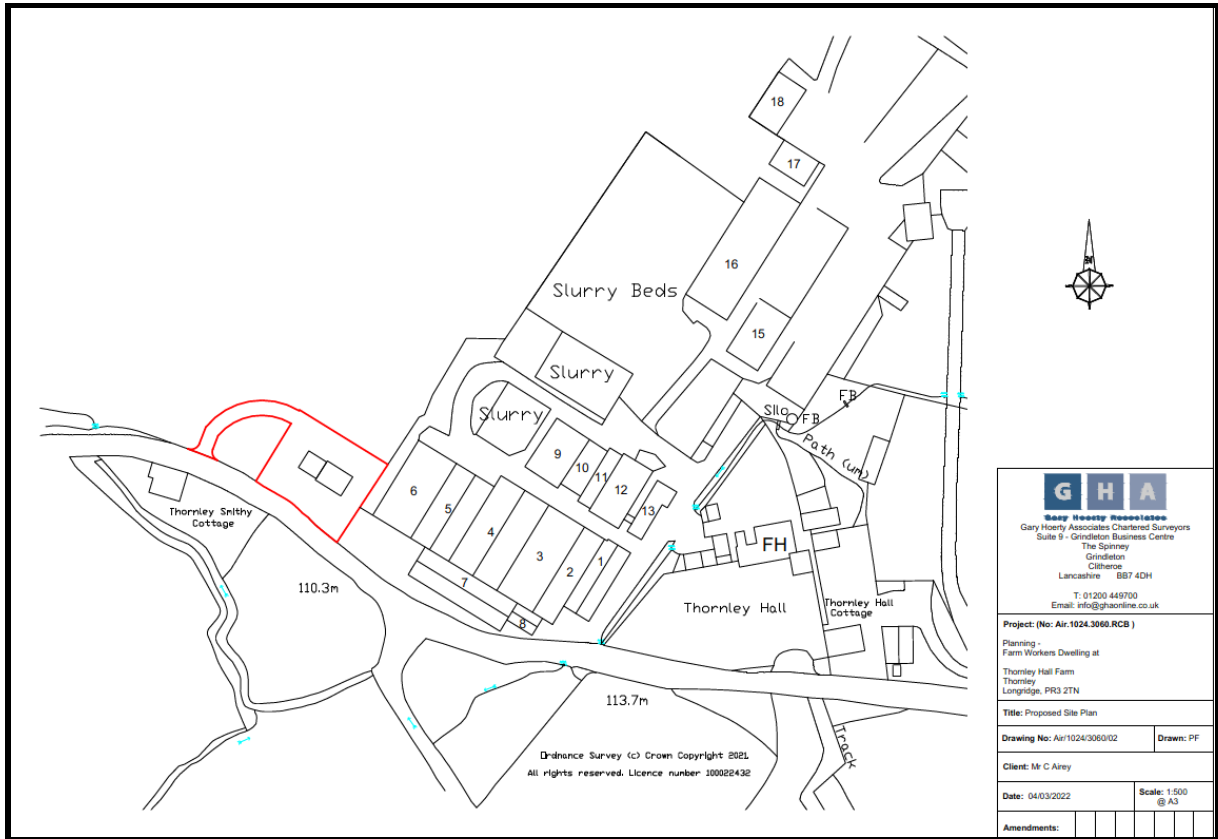
Description	85th Percentile Speed	a = longitudinal gradient (%) (+ for upgrades and - for downgrades)	Stopping Sight Distances in metres. Not including 2.4m for bonnet length when assessing the forward stopping sight distance of a vehicle travelling along the carriageway.						
			Parameter	Highway Code	TRL Safety Report 332	DMRB CD109 Table 2.1		MFS 2 HGVs greater than 5%	MFS Section 7.5.7 Desirable minimum
						Desirable	One Step Relaxation		
			t = driver perception - d = deceleration	0.68	0.9	2	2	1.5	1.5
				6.57	4.4145	2.4525	3.68	4.41	4.41
eastbound from site 2 ATC	35.9	0	16.05	31	44	85	67	53	53
westbound from site 1 ATC	34.9	0	15.60	29	42	81	64	51	51

The traffic flows are shown below and indicate low flows in the corridor across the week.

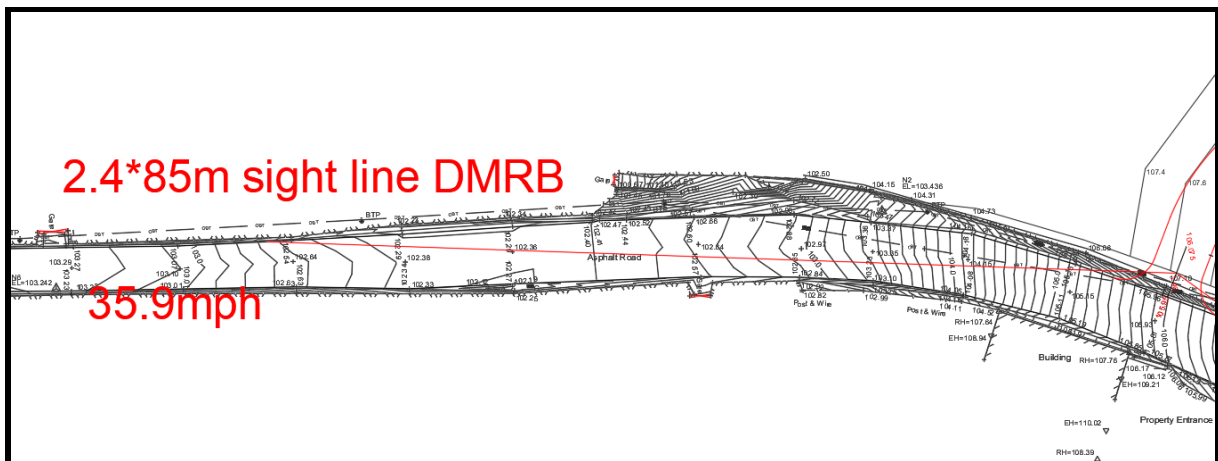


Proposals

The dwelling location is shown below.

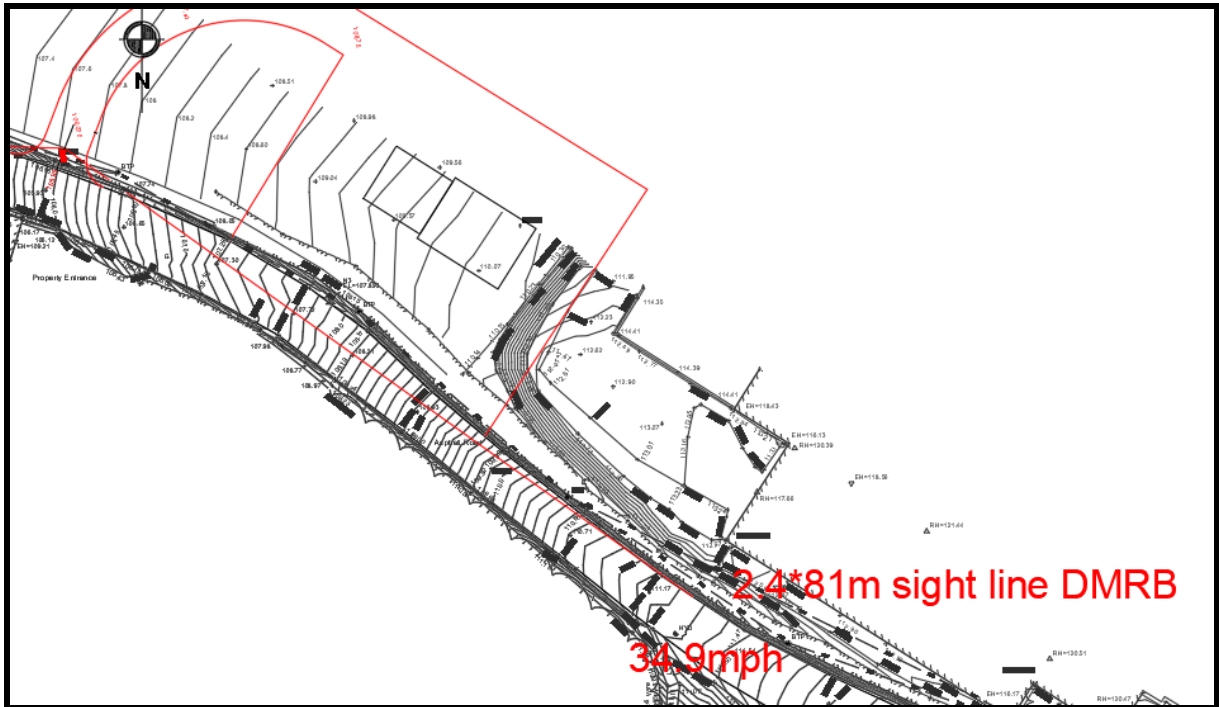


Based on the above speed and sight line review the access has been defined on the topographical survey and provided in full in fig 1.

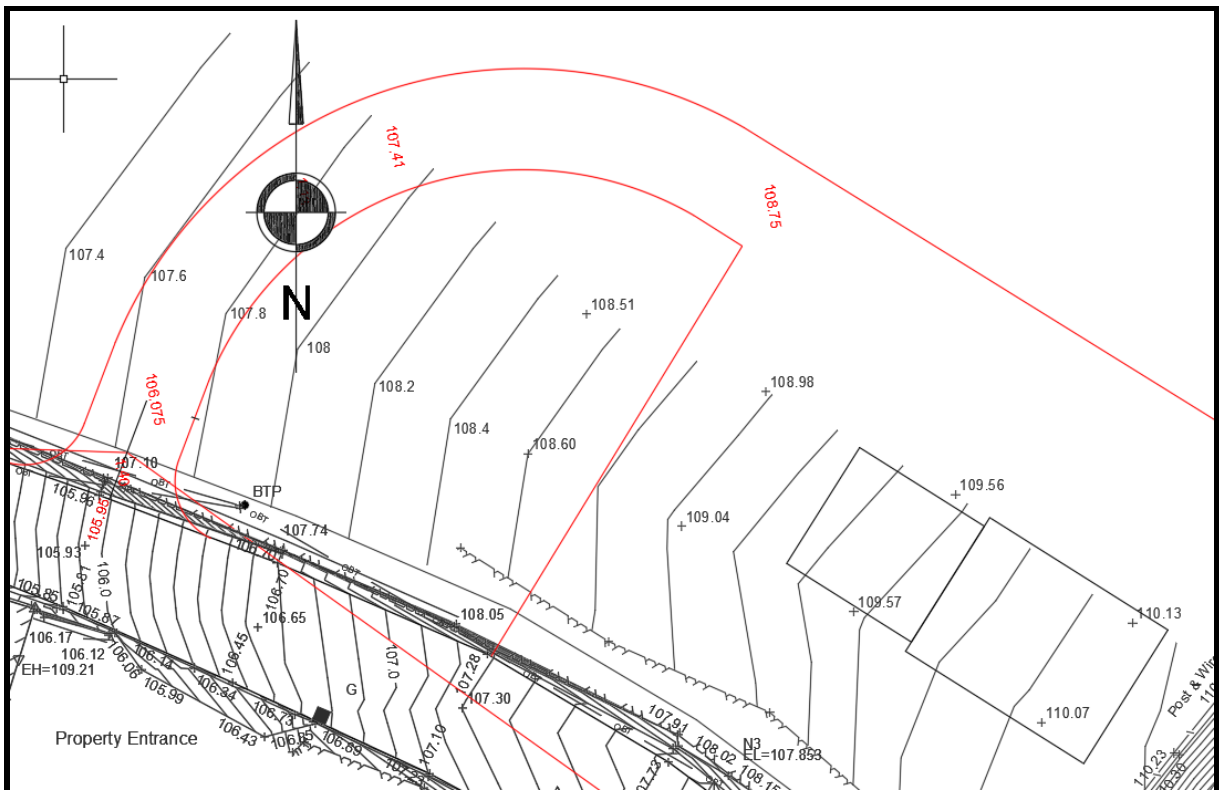


The full sight line is delivered in the adopted highway.

The left sight line overleaf is also fully delivered in the adopted highway and Infront of the hedge/slope area thus not affected by seasonal growth.



The access has the first 5m at 1:40 upgrade and then a grade of 1:16 to the internal area.



Summary

The review shows the site can be delivered in a safe manner, speeds are low compared to posted limit and sight lines can be provided in highway or client land. There are no recorded local safety issues.

As such there are no residual concerns that would prevent the site access gaining approval from a highway perspective.

Alan Davies

DTPC

2022