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Highways | Traffic | Transportation | Water

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Steve Camps
SDC Projects
Northern House
51 Clarel Street
Penistone
Sheffield
S36 6AU

22 October 2009

martin.whittaker@sandersonassociates.co.uk

Our ref : 5519/MEW/001

Dear Mr Camps

Re: Proposed Dwelling - Stainborough Road, Barnsley

As requested we have undertaken a vehicle speed survey along Stainborough Road on the approach to the existing driveway running alongside the proposed dwelling. As traffic volumes in the vicinity of the site are modest a vehicle speed survey has been undertaken for a 1 hour 40 minute period to provide an appropriate sample of recordings. The survey was undertaken on 21st October 2009 between the hours of 10:10 and 11:50 when the road surface was dry. Full details of the surveys are attached with the critical results summarised below:

Stainborough Road, Barnsley 21/10/09	Southeast bound 50 readings (uphill)	Westbound 50 readings (downhill)
Mean Speed	21.44 mph	17.14 mph
85th Percentile Speed	24.23 mph	19.62 mph
85th Percentile Speed wet weather speed	**21.75 mph**	**17.14 mph**

The Department for Transport document Manual for Streets (MfS) published in 2007 sets out guidance and criteria for the design of residential developments. The usual criteria to determine whether guidance set out within this document applies the following points must be met.

- The site must be within a built up urban area (i.e. development must be on at least one side of the road and have other side roads and accesses present).
- The main road must be subject to a 30mph speed limit or recorded 85th percentile wet weather speeds must be below the 37mph.
- The 'place' function of the street must be more important than the 'movement' function in the rapid transit of large numbers of vehicles

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It is considered that the proposed site meets the criteria of MfS as Stainborough Road has built up development located along both flanks, side roads and accesses are present and recorded speeds fall well below the 37mph threshold. Given the residential nature of Stainborough Road it is considered that the place function is more important than the movement of traffic,

As can be seen from the above, the survey has confirmed that traffic speeds along Stainborough Road in the vicinity of the site are in accordance with the speed limit of 30mph. Southeast bound vehicle speeds are in the order of 22 mph which would require a visibility splay 'Y' distance of 28m based on the recorded 85th percentile wet weather adjusted speed in accordance with MfS. Westbound vehicle speeds are in the order of 17mph which would require a visibility splay 'Y' distance of 20m based on the recorded 85th percentile wet weather adjusted speed in accordance with MfS. Both splays allow for a 2.4m bonnet length.

The level of visibility at the existing driveway has been measured on site. As the driveway and development site are located on the outside of a bend, visibility from the driveway is good. A visibility splay of 2.4m x 47m can be achieved in a north westerly direction (left out of the access) and a visibility splay of 2.4m x 54m can be achieved in an easterly direction (right out of the access) when measuring the splay tangentially to the centreline of the carriageway. Two photographs illustrating a view from the site access are attached.

It is considered that the level of visibility that can be achieved from the driveway is more than sufficient to allow an emerging vehicle to view a vehicle approaching from both directions and visa versa. The level of visibility from the driveway when measured tangentially to the centre line of the carriageway is well in excess of guidance set out in Manual for Streets. Drawing 5519/001 illustrates the level of visibility that can be achieved from the site access.

Based on the above studies it is considered that access to the proposed dwelling could be taken from the existing driveway which the applicant has rights of access over or a new access could be formed directly onto Stainborough Road.

I trust this is of assistance, if you would like to discuss this in any further detail please do not hesitate to contact me.

Yours sincerely

Martin Whittaker AMIHIE AMIHT
Senior Engineer
Sanderson Associates (CE) Ltd

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SPEED SURVEY

Location Stainborough Road, Dodworth
Direction of Travel Southeast bound

Job Number 5519
Date of Survey 21/10/09
Start Time 10:10
Finish Time 11:40

Speed	No. of Readings	Speed	No. of Readings	Speed	No. of Readings	Speed	No. of Readings
1		26	2	51		76	
2		27	1	52		77	
3		28		53		78	
4		29		54		79	
5		30		55		80	
6		31		56		81	
7		32		57		82	
8		33		58		83	
9		34		59		84	
10		35		60		85	
11		36		61		86	
12		37		62		87	
13		38		63		88	
14		39		64		89	
15	2	40		65		90	
16	2	41		66		91	
17	1	42		67		92	
18	2	43		68		93	
19	2	44		69		94	
20	9	45		70		95	
21	6	46		71		96	
22	6	47		72		97	
23	8	48		73		98	
24	7	49		74		99	
25	2	50		75		100	

Number of Readings = 50
Mean Speed = 21.44
Standard Deviation = 2.7932864
85 Percentile Speed = 24.233286
85 Percentile Wet Weather Speed = 21.748286 **<<<<**

Dual C'way Y/N? N
Single C'way Y/N? Y
Wet Road Surface Y/N? N

Note: Insert Y or N in boxes against carriageway type and road surface condition and then use 85 percentile speed as marked with **<<<<**.

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SPEED SURVEY

Location Stainborough Road, Dodworth
Direction of Travel Westbound

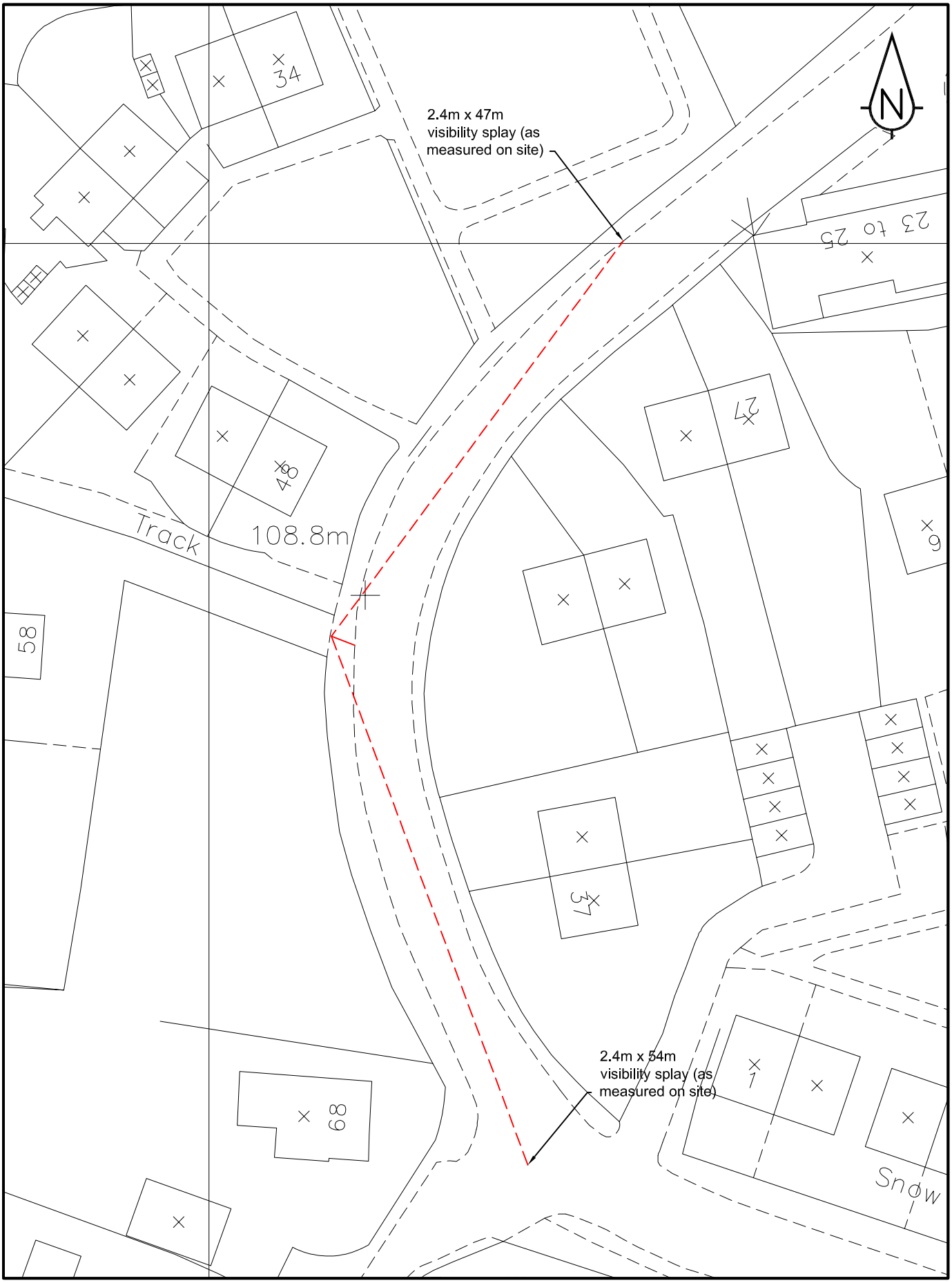
Job Number 5519
Date of Survey 21/10/09
Start Time 10:10
Finish Time 11:50

Speed	No. of Readings	Speed	No. of Readings	Speed	No. of Readings	Speed	No. of Readings
1		26		51		76	
2		27		52		77	
3		28		53		78	
4		29		54		79	
5		30		55		80	
6		31		56		81	
7		32		57		82	
8		33		58		83	
9		34		59		84	
10		35		60		85	
11		36		61		86	
12	2	37		62		87	
13	3	38		63		88	
14	4	39		64		89	
15	6	40		65		90	
16	2	41		66		91	
17	6	42		67		92	
18	11	43		68		93	
19	8	44		69		94	
20	4	45		70		95	
21	4	46		71		96	
22		47		72		97	
23		48		73		98	
24		49		74		99	
25		50		75		100	

Number of Readings = 50
Mean Speed = 17.14
Standard Deviation = 2.4826747
85 Percentile Speed = 19.622675
85 Percentile Wet Weather Speed = 17.137675 **<<<<**

Dual C'way Y/N? N
Single C'way Y/N? Y
Wet Road Surface Y/N? N

Note: Insert Y or N in boxes against carriageway type and road surface condition and then use 85 percentile speed as marked with **<<<<**.



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VISIBILITY SPLAYS AS MEASURED ON SITE

STAINBOROUGH ROAD, BARNSLEY

Drawn	Scale	
MEW	1:500	ISO 9001 REGISTERED FIRM
Checked	Date	
JP	OCT 2009	
Approved	Drawing Number	Size
JP	5519/001	A4

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