Our ref: CRS 719,959	2nd Floor
Your ref:	Woodlands
	Manton Lane
	Bedford MK41 7LW
	Direct Line:
Via email	12 May 2015

Dear

Thank you for your emails of 5 May requesting information under the Freedom of Information Act about the M1 junctions 13-12 southbound variable speed limit system. We have now completed our search for the information requested. I set out our response to both emails below:

1. Maintenance and defects logs for each of the gantries supporting the variable speed system on the M1 for the period 1 April to 31 April.

Our fault logs for the period are set out in the tables below. Each table provides any faults reported at a specific gantry location giving details of the lane, the time the fault occurred, the time it was cleared and the fault type.

Fault Detected	Fault Cleared	Fault Duration (hrs)	Fault Id	Fault Type	Aspect
14/04/15 05:25:49	14/04/15 05:29:35	0.0628	16408	ASPECT FAILED	OFF

Fault Detected	Fault Cleared	Fault Duration (hrs)	Fault Id	Fault Type	Aspect
07/04/15 12:52:25	07/04/15 12:53:41	0.0211	57494	UNOBTAINABLE	
07/04/15 12:52:25	07/04/15 12:53:41	0.0211	57495	UNOBTAINABLE	
07/04/15 12:52:25	07/04/15 12:53:41	0.0211	57496	UNOBTAINABLE	
07/04/15 12:52:25	07/04/15 12:53:41	0.0211	57497	UNOBTAINABLE	

Fault Detected	Fault Cleared	Fault Duration (hrs)	Fault Id	Fault Type	Aspect
22/04/15 19:05:44	22/04/15 19:20:18	0.2428	52602	UNOBTAINABLE	
01/05/15 06:35:18	01/05/15 06:50:18	0.2500	21204	UNOBTAINABLE	

Fault Detected	Fault Cleared	Fault Duration	Fault Id	Fault Type	Aspect

![POSITIVE ABOUT DISABLED PEOPLE logo] ![INVESTORS IN PEOPLE logo]

		(hrs)			
11/04/15 16:20:10	12/04/15 12:35:34	20.2567	8087	SINGLE LAMP FAILED	
15/04/15 14:44:13	15/04/15 17:17:56	2.5619	22630	SINGLE LAMP FAILED	
16/04/15 13:54:14	16/04/15 16:30:26	2.6033	26692	SINGLE LAMP FAILED	
18/04/15 14:43:19	19/04/15 15:11:07	24.4633	35116	SINGLE LAMP FAILED	
20/04/15 15:13:50	21/04/15 05:24:08	14.1717	42181	SINGLE LAMP FAILED	
21/04/15 15:00:26	21/04/15 16:18:54	1.3078	46935	SINGLE LAMP FAILED	
21/04/15 16:27:29	21/04/15 16:40:53	0.2233	47381	SINGLE LAMP FAILED	
22/04/15 14:32:36	22/04/15 17:39:32	3.1156	51733	SINGLE LAMP FAILED	
23/04/15 15:20:13	23/04/15 16:52:52	1.5442	56008	SINGLE LAMP FAILED	
24/04/15 16:06:48	24/04/15 16:33:22	0.4428	60503	SINGLE LAMP FAILED	
25/04/15 15:27:31	26/04/15 16:50:20	25.3803	63023	SINGLE LAMP FAILED	
27/04/15 13:52:34	27/04/15 16:55:49	3.0542	4605	SINGLE LAMP FAILED	
28/04/15 15:11:38	28/04/15 17:27:18	2.2611	10877	SINGLE LAMP FAILED	
29/04/15 15:11:42	29/04/15 16:32:49	1.3519	14903	SINGLE LAMP FAILED	
30/04/15 16:09:44	30/04/15 16:15:19	0.0931	19286	SINGLE LAMP FAILED	
10/04/15 09:44:28	10/04/15 16:22:31	6.6342	1671	SINGLE LAMP FAILED	
11/04/15 10:47:18	11/04/15 13:38:04	2.8461	7182	SINGLE LAMP FAILED	
11/04/15 15:26:49	12/04/15 12:35:35	21.1461	8022	SINGLE LAMP FAILED	
15/04/15 09:33:06	15/04/15 17:17:57	7.7475	21398	SINGLE LAMP FAILED	
16/04/15 11:20:54	16/04/15 12:30:33	1.1608	26200	SINGLE LAMP FAILED	
17/04/15 11:41:35	17/04/15 18:23:54	6.7053	30800	SINGLE LAMP FAILED	
18/04/15 09:45:06	19/04/15 15:11:08	29.4339	34169	SINGLE LAMP FAILED	
20/04/15 10:48:09	21/04/15 05:24:09	18.6000	41271	SINGLE LAMP FAILED	
21/04/15 10:09:26	21/04/15 16:18:55	6.1581	45959	SINGLE LAMP FAILED	
22/04/15 09:59:25	22/04/15 13:27:28	3.4675	50701	SINGLE LAMP FAILED	
22/04/15 16:20:20	22/04/15 17:39:33	1.3203	52059	SINGLE LAMP FAILED	
23/04/15 11:47:13	23/04/15 11:48:59	0.0294	55227	SINGLE LAMP FAILED	
23/04/15 11:50:47	23/04/15 16:52:53	5.0350	55237	SINGLE LAMP FAILED	
24/04/15 09:56:42	24/04/15 16:33:23	6.6114	59186	SINGLE LAMP FAILED	
25/04/15 09:57:20	25/04/15 12:43:57	2.7769	61994	SINGLE LAMP	

INVESTORS IN PEOPLE

				FAILED	
25/04/15 13:49:55	26/04/15 16:50:21	27.0072	62754	SINGLE LAMP FAILED	
27/04/15 11:09:14	27/04/15 16:55:50	5.7767	4138	SINGLE LAMP FAILED	
28/04/15 09:49:49	28/04/15 11:21:27	1.5272	10057	SINGLE LAMP FAILED	
28/04/15 12:37:18	28/04/15 17:27:19	4.8336	10493	SINGLE LAMP FAILED	
29/04/15 11:33:55	29/04/15 16:32:50	4.9819	14199	SINGLE LAMP FAILED	
30/04/15 10:46:05	30/04/15 16:15:20	5.4875	18165	SINGLE LAMP FAILED	
10/04/15 09:44:58	10/04/15 16:22:32	6.6261	1673	SINGLE LAMP FAILED	
11/04/15 10:45:19	11/04/15 13:38:05	2.8794	7176	SINGLE LAMP FAILED	
12/04/15 09:16:09	12/04/15 12:35:36	3.3242	10179	SINGLE LAMP FAILED	
15/04/15 09:50:24	15/04/15 17:17:58	7.4594	21468	SINGLE LAMP FAILED	
16/04/15 11:15:56	16/04/15 12:30:34	1.2439	26185	SINGLE LAMP FAILED	
16/04/15 13:14:18	16/04/15 16:30:29	3.2697	26568	SINGLE LAMP FAILED	
17/04/15 11:20:54	17/04/15 18:23:56	7.0506	30736	SINGLE LAMP FAILED	
18/04/15 09:00:07	19/04/15 15:11:09	30.1839	34020	SINGLE LAMP FAILED	
20/04/15 10:47:18	20/04/15 10:47:44	0.0072	41265	SINGLE LAMP FAILED	
20/04/15 10:48:58	21/04/15 05:24:10	18.5867	41277	SINGLE LAMP FAILED	
21/04/15 10:07:53	21/04/15 16:18:56	6.1842	45953	SINGLE LAMP FAILED	
22/04/15 09:59:44	22/04/15 13:27:29	3.4625	50703	SINGLE LAMP FAILED	
22/04/15 14:24:57	22/04/15 17:39:24	3.2408	51717	SINGLE LAMP FAILED	
23/04/15 11:46:41	23/04/15 11:49:01	0.0389	55224	SINGLE LAMP FAILED	
23/04/15 11:52:11	23/04/15 16:52:54	5.0119	55240	SINGLE LAMP FAILED	
24/04/15 10:09:31	24/04/15 16:33:24	6.3981	59243	SINGLE LAMP FAILED	
25/04/15 09:54:22	25/04/15 12:43:58	2.8267	61983	SINGLE LAMP FAILED	
25/04/15 13:13:13	25/04/15 13:14:57	0.0289	62598	SINGLE LAMP FAILED	
25/04/15 13:51:07	26/04/15 16:50:22	26.9875	62757	SINGLE LAMP FAILED	
27/04/15 11:02:59	27/04/15 16:55:52	5.8814	4118	SINGLE LAMP FAILED	
28/04/15 09:43:30	28/04/15 11:21:28	1.6328	10045	SINGLE LAMP FAILED	
28/04/15 12:24:23	28/04/15 17:27:20	5.0492	10476	SINGLE LAMP FAILED	
29/04/15 12:11:07	29/04/15 16:32:51	4.3622	14308	SINGLE LAMP FAILED	
30/04/15 10:44:57	30/04/15 16:15:21	5.5067	18162	SINGLE LAMP	

POSITIVE ABOUT DISABLED PEOPLE

INVESTORS IN PEOPLE

Fault Detected	Fault Cleared	Fault Duration (hrs)	Fault Id	Fault Type	Aspect
				FAILED	
10/04/15 09:25:02	10/04/15 16:22:33	6.9586	1579	SINGLE LAMP FAILED	
11/04/15 10:44:10	11/04/15 13:38:06	2.8989	7165	SINGLE LAMP FAILED	
11/04/15 14:32:30	12/04/15 12:35:37	22.0519	7796	SINGLE LAMP FAILED	
15/04/15 08:51:20	15/04/15 17:17:59	8.4442	21199	SINGLE LAMP FAILED	
16/04/15 09:47:31	16/04/15 12:30:35	2.7178	25851	SINGLE LAMP FAILED	
16/04/15 12:43:34	16/04/15 16:30:30	3.7822	26478	SINGLE LAMP FAILED	
17/04/15 11:07:16	17/04/15 18:23:57	7.2781	30690	SINGLE LAMP FAILED	
18/04/15 08:36:49	19/04/15 15:10:59	30.5694	33956	SINGLE LAMP FAILED	
20/04/15 10:48:11	21/04/15 05:24:11	18.6000	41272	SINGLE LAMP FAILED	
21/04/15 10:06:17	21/04/15 10:07:05	0.0133	45947	SINGLE LAMP FAILED	
21/04/15 10:07:15	21/04/15 16:18:57	6.1950	45951	SINGLE LAMP FAILED	
21/04/15 16:48:29	21/04/15 16:57:56	0.1575	47531	SINGLE LAMP FAILED	
22/04/15 09:58:02	22/04/15 09:58:34	0.0089	50696	SINGLE LAMP FAILED	
22/04/15 09:59:34	22/04/15 13:27:30	3.4656	50702	SINGLE LAMP FAILED	
22/04/15 14:06:40	22/04/15 17:39:25	3.5458	51674	SINGLE LAMP FAILED	
23/04/15 11:46:42	23/04/15 11:49:02	0.0389	55225	SINGLE LAMP FAILED	
23/04/15 11:50:02	23/04/15 16:52:55	5.0481	55235	SINGLE LAMP FAILED	
24/04/15 09:37:09	24/04/15 16:33:25	6.9378	59102	SINGLE LAMP FAILED	
25/04/15 09:26:41	25/04/15 12:43:59	3.2883	61923	SINGLE LAMP FAILED	
25/04/15 13:12:52	25/04/15 13:14:58	0.0350	62597	SINGLE LAMP FAILED	
25/04/15 13:15:09	26/04/15 16:50:23	27.5872	62608	SINGLE LAMP FAILED	
27/04/15 11:03:00	27/04/15 16:55:53	5.8814	4119	SINGLE LAMP FAILED	
28/04/15 09:42:31	28/04/15 11:20:40	1.6358	10038	SINGLE LAMP FAILED	
28/04/15 12:19:44	28/04/15 17:27:21	5.1269	10463	SINGLE LAMP FAILED	
29/04/15 11:32:58	29/04/15 16:32:52	4.9983	14197	SINGLE LAMP FAILED	
30/04/15 10:44:05	30/04/15 10:44:29	0.0067	18159	SINGLE LAMP FAILED	
30/04/15 10:46:02	30/04/15 16:14:32	5.4750	18164	SINGLE LAMP FAILED	

Fault Detected	Fault Cleared	Fault Duration (hrs)	Fault Id	Fault Type	Aspect

Fault Detected	Fault Cleared	Fault Duration	Fault Id	Fault Type	Aspect
08/04/15 13:55:16	08/04/15 14:05:04	0.1633	61125	AMBER FLASHER FAILED	
10/04/15 10:21:54	10/04/15 10:36:04	0.2361	1836	RED FLASHER FAILED	
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1911	ASPECT FAILED	NR
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1912	ASPECT FAILED	RE
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1913	ASPECT FAILED	20
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1914	ASPECT FAILED	30
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1915	ASPECT FAILED	40
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1916	ASPECT FAILED	50
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1917	ASPECT FAILED	60
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1918	ASPECT FAILED	70
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1919	ASPECT FAILED	
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1920	ASPECT FAILED	
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1921	ASPECT FAILED	
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1922	ASPECT FAILED	LDR
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1923	ASPECT FAILED	LDL
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1924	ASPECT FAILED	MDVL
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1925	ASPECT FAILED	IT
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1926	ASPECT FAILED	TI
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1927	ASPECT FAILED	TTI
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1928	ASPECT FAILED	TII
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1929	ASPECT FAILED	ITT
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1930	ASPECT FAILED	IIT
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1931	ASPECT FAILED	I(C)
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1932	ASPECT FAILED	MDVR
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1933	ASPECT FAILED	FOG
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1934	ASPECT FAILED	
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1935	ASPECT FAILED	20R
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1936	ASPECT FAILED	30R
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1937	ASPECT FAILED	40R
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1938	ASPECT FAILED	50R
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1939	ASPECT FAILED	60R
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1940	ASPECT FAILED	70R
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1941	ASPECT FAILED	
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1942	ASPECT FAILED	
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1943	ASPECT FAILED	
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1944	ASPECT FAILED	
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1945	ASPECT FAILED	
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1946	ASPECT FAILED	TDL
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1947	ASPECT FAILED	HSD
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1948	ASPECT FAILED	T
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1949	ASPECT FAILED	TT
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1950	ASPECT FAILED	TTT
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1951	ASPECT FAILED	NR
10/04/15 10:39:14	10/04/15 10:49:15	0.1669	1952	ASPECT FAILED	END

		(hrs)			
01/04/15 07:50:40	01/04/15 07:54:29	0.0636	41697	ASPECT FAILED	OFF
15/04/15 09:12:39	15/04/15 09:17:31	0.0811	21264	ASPECT FAILED	OFF
15/04/15 09:12:39	15/04/15 12:12:48	3.0025	21265	RED FLASHER FAILED	
15/04/15 09:12:39	15/04/15 12:12:48	3.0025	21266	AMBER FLASHER FAILED	
15/04/15 09:17:31	15/04/15 12:17:54	3.0064	21277	ASPECT FAILED	NR
15/04/15 09:17:31	15/04/15 12:17:54	3.0064	21278	ASPECT FAILED	RE
15/04/15 09:17:31	15/04/15 12:17:54	3.0064	21279	ASPECT FAILED	STOP
15/04/15 09:17:31	15/04/15 12:17:54	3.0064	21280	ASPECT FAILED	20
15/04/15 09:17:31	15/04/15 12:17:54	3.0064	21281	ASPECT FAILED	30
15/04/15 09:17:31	15/04/15 12:17:54	3.0064	21282	ASPECT FAILED	40
15/04/15 09:17:31	15/04/15 12:17:54	3.0064	21283	ASPECT FAILED	50
15/04/15 09:17:31	15/04/15 12:17:54	3.0064	21284	ASPECT FAILED	60
15/04/15 09:17:31	15/04/15 12:17:54	3.0064	21285	ASPECT FAILED	LDR
15/04/15 09:17:31	15/04/15 12:17:54	3.0064	21286	ASPECT FAILED	REDX
15/04/15 09:17:31	15/04/15 12:17:54	3.0064	21287	ASPECT FAILED	LDL
15/04/15 09:17:31	15/04/15 12:17:54	3.0064	21288	ASPECT FAILED	MDVL
15/04/15 09:17:31	15/04/15 12:17:54	3.0064	21289	ASPECT FAILED	IT
15/04/15 09:17:31	15/04/15 12:17:54	3.0064	21290	ASPECT FAILED	TI
15/04/15 09:17:31	15/04/15 12:17:54	3.0064	21291	ASPECT FAILED	TTI
15/04/15 09:17:31	15/04/15 12:17:54	3.0064	21292	ASPECT FAILED	TII
15/04/15 09:17:31	15/04/15 12:17:54	3.0064	21293	ASPECT FAILED	ITT
15/04/15 09:17:31	15/04/15 12:17:54	3.0064	21294	ASPECT FAILED	IIT
15/04/15 09:17:31	15/04/15 12:17:54	3.0064	21295	ASPECT FAILED	I(C)
15/04/15 09:17:31	15/04/15 12:17:54	3.0064	21296	ASPECT FAILED	MDVR
15/04/15 09:17:31	15/04/15 12:17:54	3.0064	21297	ASPECT FAILED	FOG
15/04/15 09:17:31	15/04/15 12:17:54	3.0064	21298	ASPECT FAILED	
15/04/15 09:17:31	15/04/15 12:17:54	3.0064	21299	ASPECT FAILED	20R
15/04/15 09:17:31	15/04/15 12:17:54	3.0064	21300	ASPECT FAILED	30R
15/04/15 09:17:31	15/04/15 12:17:54	3.0064	21301	ASPECT FAILED	40R
15/04/15 09:17:31	15/04/15 12:17:55	3.0067	21302	ASPECT FAILED	50R
15/04/15 09:17:31	15/04/15 12:17:55	3.0067	21303	ASPECT FAILED	60R
15/04/15 09:17:31	15/04/15 12:17:55	3.0067	21304	ASPECT FAILED	
15/04/15 09:17:31	15/04/15 12:17:55	3.0067	21305	ASPECT FAILED	
15/04/15 09:17:31	15/04/15 12:17:55	3.0067	21306	ASPECT FAILED	
15/04/15 09:17:31	15/04/15 12:17:55	3.0067	21307	ASPECT FAILED	
15/04/15 09:17:31	15/04/15 12:17:55	3.0067	21308	ASPECT FAILED	MOFF
15/04/15 09:17:31	15/04/15 12:17:55	3.0067	21309	ASPECT FAILED	AMB
15/04/15 09:17:31	15/04/15 12:17:55	3.0067	21310	ASPECT FAILED	TDL
15/04/15 09:17:31	15/04/15 12:17:55	3.0067	21311	ASPECT FAILED	BLNK
15/04/15 09:17:31	15/04/15 12:17:55	3.0067	21312	ASPECT FAILED	HSD
15/04/15 09:17:31	15/04/15 12:17:55	3.0067	21313	ASPECT FAILED	T
15/04/15 09:17:31	15/04/15 12:17:55	3.0067	21314	ASPECT FAILED	TT
15/04/15 09:17:32	15/04/15 12:17:55	3.0064	21315	ASPECT FAILED	TTT
15/04/15 09:17:32	15/04/15 12:17:55	3.0064	21316	ASPECT FAILED	RED
15/04/15 09:17:32	15/04/15 12:17:55	3.0064	21317	ASPECT FAILED	NR

15/04/15 09:17:32	15/04/15 12:17:55	3.0064	21318	ASPECT FAILED	END
15/04/15 09:17:41	15/04/15 09:27:33	0.1644	21319	ASPECT FAILED	OFF
15/04/15 09:27:41	15/04/15 09:37:34	0.1647	21367	ASPECT FAILED	OFF
15/04/15 09:37:41	15/04/15 13:12:49	3.5856	21413	ASPECT FAILED	OFF
19/04/15 19:32:26	19/04/15 19:36:18	0.0644	38611	ASPECT FAILED	OFF
20/04/15 22:08:52	20/04/15 22:12:47	0.0653	43608	ASPECT FAILED	OFF
30/04/15 21:26:51	30/04/15 21:30:43	0.0644	20358	ASPECT FAILED	OFF

Fault Detected	Fault Cleared	Fault Duration (hrs)	Fault Id	Fault Type	Aspect
06/04/15 13:27:16	06/04/15 13:28:06	0.0139	53870	UNOBTAINABLE	
06/04/15 15:43:15	06/04/15 15:44:05	0.0139	54459	UNOBTAINABLE	
07/04/15 05:11:14	07/04/15 05:12:04	0.0139	55762	UNOBTAINABLE	
07/04/15 06:39:13	07/04/15 06:39:47	0.0094	56040	UNOBTAINABLE	
30/04/15 08:52:16	30/04/15 08:52:35	0.0053	17797	UNOBTAINABLE	
30/04/15 11:00:15	30/04/15 11:01:05	0.0139	18205	UNOBTAINABLE	
07/04/15 00:23:16	07/04/15 00:24:06	0.0139	55405	UNOBTAINABLE	
18/04/15 20:48:16	18/04/15 20:49:06	0.0139	35766	UNOBTAINABLE	
21/04/15 08:41:53	21/04/15 08:48:11	0.1050	45470	ASPECT FAILED	OFF
21/04/15 08:48:11	21/04/15 08:58:12	0.1669	45512	ASPECT FAILED	NR
21/04/15 08:48:11	21/04/15 08:58:13	0.1672	45513	ASPECT FAILED	RE
21/04/15 08:48:11	21/04/15 08:58:13	0.1672	45514	ASPECT FAILED	20
21/04/15 08:48:11	21/04/15 08:58:13	0.1672	45515	ASPECT FAILED	30
21/04/15 08:48:11	21/04/15 08:58:13	0.1672	45516	ASPECT FAILED	40
21/04/15 08:48:11	21/04/15 08:58:13	0.1672	45517	ASPECT FAILED	50
21/04/15 08:48:11	21/04/15 08:58:13	0.1672	45518	ASPECT FAILED	60
21/04/15 08:48:11	21/04/15 08:58:13	0.1672	45519	ASPECT FAILED	70
21/04/15 08:48:11	21/04/15 08:58:13	0.1672	45520	ASPECT FAILED	
21/04/15 08:48:11	21/04/15 08:58:13	0.1672	45521	ASPECT FAILED	
21/04/15 08:48:12	21/04/15 08:58:13	0.1669	45522	ASPECT FAILED	
21/04/15 08:48:12	21/04/15 08:58:13	0.1669	45523	ASPECT FAILED	LDR
21/04/15 08:48:12	21/04/15 08:58:13	0.1669	45524	ASPECT FAILED	LDL
21/04/15 08:48:12	21/04/15 08:58:13	0.1669	45525	ASPECT FAILED	IT
21/04/15 08:48:12	21/04/15 08:58:13	0.1669	45526	ASPECT FAILED	TI
21/04/15 08:48:12	21/04/15 08:58:13	0.1669	45527	ASPECT FAILED	TTI
21/04/15 08:48:12	21/04/15 08:58:13	0.1669	45528	ASPECT FAILED	TII
21/04/15 08:48:12	21/04/15 08:58:13	0.1669	45529	ASPECT FAILED	ITT
21/04/15 08:48:12	21/04/15 08:58:13	0.1669	45530	ASPECT FAILED	IIT
21/04/15 08:48:12	21/04/15 08:58:13	0.1669	45531	ASPECT FAILED	I(C)
21/04/15 08:48:12	21/04/15 08:58:13	0.1669	45532	ASPECT FAILED	MDVR
21/04/15 08:48:12	21/04/15 08:58:13	0.1669	45533	ASPECT FAILED	
21/04/15 08:48:12	21/04/15 08:58:13	0.1669	45534	ASPECT FAILED	20R
21/04/15 08:48:12	21/04/15 08:58:13	0.1669	45535	ASPECT FAILED	30R
21/04/15 08:48:12	21/04/15 08:50:55	0.0453	45536	ASPECT FAILED	40R
21/04/15 08:48:12	21/04/15 08:50:50	0.0439	45537	ASPECT FAILED	50R
21/04/15 08:48:12	21/04/15 08:50:24	0.0367	45538	ASPECT FAILED	60R
21/04/15 08:48:12	21/04/15 08:58:13	0.1669	45539	ASPECT FAILED	70R

Fault Detected	Fault Cleared	Fault Duration (hrs)	Fault Id	Fault Type	Aspect
21/04/15 08:48:12	21/04/15 08:58:13	0.1669	45540	ASPECT FAILED	
21/04/15 08:48:12	21/04/15 08:58:13	0.1669	45541	ASPECT FAILED	
21/04/15 08:48:12	21/04/15 08:58:13	0.1669	45542	ASPECT FAILED	
21/04/15 08:48:12	21/04/15 08:58:13	0.1669	45543	ASPECT FAILED	
21/04/15 08:48:12	21/04/15 08:58:13	0.1669	45544	ASPECT FAILED	TDL
21/04/15 08:48:12	21/04/15 08:58:13	0.1669	45545	ASPECT FAILED	HSD
21/04/15 08:48:12	21/04/15 08:58:13	0.1669	45546	ASPECT FAILED	TT
21/04/15 08:48:12	21/04/15 08:58:13	0.1669	45547	ASPECT FAILED	TTT
21/04/15 08:48:12	21/04/15 08:58:13	0.1669	45548	ASPECT FAILED	NR
21/04/15 08:48:12	21/04/15 08:58:13	0.1669	45549	ASPECT FAILED	END
21/04/15 08:48:53	21/04/15 08:50:23	0.0250	45577	ASPECT FAILED	OFF
01/05/15 03:00:14	01/05/15 03:01:04	0.0139	20854	UNOBTAINABLE	
07/04/15 21:07:15	07/04/15 21:08:05	0.0139	59110	UNOBTAINABLE	
19/04/15 23:48:12	19/04/15 23:49:02	0.0139	38969	UNOBTAINABLE	
22/04/15 09:00:37	22/04/15 09:00:45	0.0022	50445	UNOBTAINABLE	
20/04/15 04:24:13	20/04/15 04:25:03	0.0139	39342	UNOBTAINABLE	

Fault Detected	Fault Cleared	Fault Duration (hrs)	Fault Id	Fault Type	Aspect
10/04/15 15:45:16	10/04/15 15:46:31	0.0208	3508	UNOBTAINABLE	
10/04/15 15:45:16	10/04/15 15:46:31	0.0208	3509	UNOBTAINABLE	
10/04/15 15:45:16	10/04/15 15:46:31	0.0208	3510	UNOBTAINABLE	

Fault Detected	Fault Cleared	Fault Duration (hrs)	Fault Id	Fault Type	Aspect
11/04/15 12:57:15	11/04/15 13:12:29	0.2539	7580	UNOBTAINABLE	
15/04/15 04:02:57	15/04/15 04:18:05	0.2522	20383	UNOBTAINABLE	
15/04/15 04:02:59	15/04/15 04:18:18	0.2553	20384	UNOBTAINABLE	
23/04/15 16:23:16	23/04/15 16:38:25	0.2525	56270	UNOBTAINABLE	
15/04/15 04:03:00	15/04/15 04:18:18	0.2550	20385	UNOBTAINABLE	

Here is a legend of terms used in the column headed "Aspect"

- 30R = Enforced 30mph speed restriction set
- 40R = Enforced 40mph speed restriction set
- 50R = Enforced 50mph speed restriction set
- 60R = Enforced 60mph speed restriction set
- BLNK= Broken Red Cross
- HSD = Hard shoulder divert (used to move traffic out of the hard shoulder when it is to be closed)
- NR = No restriction (National speed limit: 70mph)
- OFF = No display
- REDX = Red Cross displayed
- RE = Restriction Ease – 3 minutes of "End" after restrictions have been cleared
- TT = Both lanes closed (on a 2 lane section eg slip road)
- TTT = Three lanes closed

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- END = End of restriction
- TDL = Tidal Divert Left
- LDR = Lane divert right
- LDL = Lane divert left
- IT = Lane 2 closed (of a 2 lane section)
- TI = Lane 1 closed (of a 2 lane section)
- IIT = Lane 3 closed (of a 3 lane section)
- TTI = Lanes 1 and 2 closed (of a 3 lane section)
- ITT = Lanes 2 and 3 closed (of a 3 lane section)
- MDVR = Motorway DiVert Right - motorway is closed and the traffic to exit to the right
- I(C) = Tidal Up Arrow
- HSM = hard shoulder management

2. Certificate of calibration on 15 April for all units between junctions 13 and 12.

The systems that set the sign gantry displays are not linked to the speed enforcement elements of the smart motorway operation.

The two systems that operate the setting of speed restrictions are known as MIDAS and Hard Shoulder Management (HSM). Neither of these systems is calibrated. MIDAS receives a pulse from traffic loops embedded in the road surface, which is transmitted to a computer which does the required calculations to set the appropriate speed limit, dependent on traffic flow. If the loop fails to transmit, it is automatically identified as a fault.

Hard Shoulder Management (HSM) is set by the regional control centre and its default speed restriction is 60mph speed limit when the hard shoulder is opened as an additional lane to traffic. However, MIDAS can override the HSM with other speed restrictions depending on traffic conditions.

Enforcement is ensuring compliance with the speed restrictions set on the gantries rather than how the speed restriction is determined. The enforcement cameras are linked to the associated indicator and ensure the speed limit is enforced. Any fault with the indicator renders the enforcement camera inoperative.

The calibration certificate for the enforcement cameras is attached at Annex A. Please note that personal information has been redacted in reliance of Section 40(2) of the Freedom of Information Act.

3. In requesting information relating to the status of the variable speed limit between junctions 13 and 12 southbound on 15 April at 08:34, you ask for the time the variable speed limit was activated, the location the variable speed limit was activated, the speed it was set to and the reason why.

The information requested is set out below. The same legend above can be used for "Equipment Setting" and "Initiator ID" in the table below.

Date And Time	Equipment Type	Equipment Setting	Initiator Id Type	Initiator Id	Implementation Reason
15/04/15 05:25:55	SIG	NR	AUTO	HSM	CONGESTION
15/04/15 05:25:55	SIG	60R	AUTO	HSM	CONGESTION
15/04/15 08:48:30	SIG	NR	AUTO	HSM	CLEAR
15/04/15 08:49:30	SIG	OFF	AUTO	HSM	CLEAR

In keeping with the spirit and effect of the legislation, all information is assumed to be releasable to the public unless exempt. We may therefore be publishing the information you requested, together with any related information that will provide a key to its wider context, via the Gov.uk website.

If you are unhappy with the way we have handled your request you may ask for an internal review. Our internal review process is available at: https://www.gov.uk/government/organisations/highways-england/about/complaints-procedure

If you require a print copy, please phone the Information Line on 0300 123 5000; or e-mail info@highwaysengland.co.uk. You should contact me if you wish to complain.

If you are not content with the outcome of the internal review, you have the right to apply directly to the Information Commissioner for a decision. The Information Commissioner can be contacted at:

Information Commissioner's Office
Wycliffe House
Water Lane
Wilmslow
Cheshire
SK9 5AF

If you have any queries about this letter, please contact me. Please remember to quote reference number 719,959 in any future communications.

Yours sincerely

Business Management Team Leader
Network Delivery and Development (East)
Email:

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