

# A303 Sparkford to Ilchester Dualling Scheme TR010036

## 6.3 Environmental Statement Appendix 12.5 Driver Stress in Operation

APFP Regulation 5(2)(a)  
Planning Act 2008

Infrastructure Planning (Applications: Prescribed  
Forms and Procedure) Regulations 2009  
July 2018

Volume 6.0



Infrastructure Planning

Planning Act 2008

**The Infrastructure Planning  
(Applications: Prescribed Forms  
and Procedure) Regulations  
2009**

**A303 Sparkford to Ilchester Dualling  
Scheme**

Development Consent Order 201[X]

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**6.3 Environmental Statement  
Appendix 12.5 Driver Stress in Operation**

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<b>Regulation Number:</b>	Regulation 5(2)(a)
<b>Planning Inspectorate Scheme Reference:</b>	TR010036
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# 1 Driver Stress in Operation

- 1.1.1 The assessment of driver stress during the operation of the scheme in the design year (2038) considers average vehicles and speeds per lane during the AM and PM peak periods, utilising average annual weekly traffic (AAWT) data. With respect to flows, light vehicles are considered as one flow unit and heavy-duty vehicles (HDV) are considered as 3 flow units. This methodology is in accordance with DMRB Volume 11 Section 3 Part 9 Tables 2 and 3<sup>1</sup>.
- 1.1.2 Flow units are calculated as follows:
- A car or light van equals one flow unit.
  - A commercial vehicle over 1½ tons unladen weight or a public service vehicle equals 3 flow units.
- 1.1.3 Table A.1 below presents the assessment of driver stress during operation. There are a number of links within the traffic model which were only produced for either the Do Minimum (DM) (without scheme) or Do Something (DS) (with scheme) scenarios. For those links, a '-' has been added, as traffic data was not available for that specific scenario (either DM or DS).

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<sup>1</sup> Design Manual for Roads and Bridges Volume 11, Section 3, Part 9 Vehicle Travellers [online] available at: <http://www.standardsforhighways.co.uk/ha/standards/dmr/vol11/section3/11s3p09.pdf> (last accessed April 2018)

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Table A.1: Assessment of operational driver stress in the design year (2038)

ID	Road	Location	Road Type	Average peak flows per lane DM	Average peak speed DM km/h	Average peak flows per lane DS	Average peak speed DS km/h	Driver Stress DM	Driver stress DS
61125-66476	A303	Eastmead Lane to Higher Farm Lane. Westbound	Dual carriageway	548	77	-	-	Moderate	-
61125-68714	A303	Eastmead Lane to unnamed road through Podimore	Single carriageway	1184	13	-	-	High	-
61130-61131	A303	East of Camel Cross	Single carriageway	1277	66	-	-	High	-
61130-68715	A303	At Camel Cross	Single carriageway	1094	68	-	-	High	-
61130-68721	B3151	Camel Cross / A303 junction southbound	Single carriageway	123	17	-	-	High	-
61131-68721	Existing A303	Hawk House to the realigned B3151	Single carriageway	-	-	43	44	-	High
61131-68722	A303	Hawk House to Plowage Lane	Single carriageway	1277	46	69	95	High	Low
66383-68178	A303	Westbound, between Sparkford Hall to Long Hazel Park, Sparkford	Dual carriageway	-	-	780	108	-	Low
66383-68812	A303	Hazlegrove rbt to Sparkford Hall. Westbound	Dual carriageway	694	105	-	-	Low	-
66384-68734	A359	Sparkford High Street, between Wolfester Terrace and Sparkford Road	Single carriageway	276	46	341	45	Moderate	Moderate
66394-68713	Unnamed road between B3151 and the road to Podimore	RNAS Yeovilton	Single carriageway	79	49	53	54	High	Moderate
66475-68710	Unnamed road through Podimore	Higher Farm Lane to the west of Podimore	Single carriageway	73	77	64	77	Low	Low
66477-61125	A303	Eastmead Lane to Higher Farm Lane. Eastbound	Dual carriageway	592	93	-	-	Low	-
66477-68165	A303	Eastbound, to the north of Podimore	Dual carriageway	-	-	745	109	-	Low
68165-68314	A303	Eastbound, between north of Podimore and to the west of the B3151	Dual carriageway	-	-	745	109	-	Low
68170-68300	A303	Eastbound, between Conegore Corner and Camel Hill	Dual carriageway	-	-	762	107	-	Low
68177-61133	A303	Westbound Sparkford Hall to Long Hazel Park, Sparkford	Dual carriageway	-	-	851	105	-	Low
68178-68179	A303	Westbound, opposite Long Hazel Park	Dual carriageway	-	-	780	93	-	Low
68179-68184	A303	Westbound, between Long Hazel Park to north of Hazlegrove Roundabout	Dual carriageway	-	-	632	105	-	Low
68179-68812	Existing A303	Westbound access between new A303 dual carriageway and Hazlegrove Roundabout	Dual carriageway	-	-	119	50	-	Moderate
68183-68184	Hazlegrove to A303 westbound slips	Hazlegrove Park	Single carriageway	-	-	195	40	-	High

ID	Road	Location	Road Type	Average peak flows per lane DM	Average peak speed DM km/h	Average peak flows per lane DS	Average peak speed DS km/h	Driver Stress DM	Driver stress DS
68184-68185	A303	Westbound, between Hazlegrove Park and Camel Hill	Dual carriageway	-	-	748	109	-	Low
68185-68315	A303	Westbound, between Camel Hill and Camel Cross	Dual carriageway	-	-	748	108	-	Low
68193-68322	Existing A303	New Overbridge to Howell Hill	Single carriageway	-	-	0	41	-	High
68193-68727	Howell Hill	Along Howell Hill	Single carriageway	-	-	21	53	-	Moderate
68196-66476	A303	Westbound, to the north of Podimore	Dual carriageway	-	-	689	62	-	Moderate
68300-68301	A303 local road to Camel Hill	North of the underpass to Camel Hill	Single carriageway	-	-	56	57	-	Moderate
68300-68302	A303	Eastbound. Camel Hill to north of Hazlegrove Roundabout	Dual carriageway	-	-	757	106	-	Low
68301-68302	Hazlegrove to A303 eastbound slips	Hazlegrove Park	Single carriageway	-	-	175	49	-	High
68301-68303	Hazlegrove local road underpass	New road between Hazlegrove Roundabout and Camel Hill	Single carriageway	-	-	56	48	-	High
68302-68177	A303	Eastbound between Long Hazel Park to north of Hazlegrove Roundabout	Dual carriageway	-	-	851	108	-	Low
68304-68811	Hazlegrove Roundabout	Hazlegrove Roundabout	Single carriageway	-	-	358	45	-	High
68305-68303	Hazlegrove Roundabout	Hazlegrove Roundabout	Single carriageway	-	-	175	48	-	High
68305-68304	Hazlegrove Roundabout	Hazlegrove Roundabout	Single carriageway	-	-	302	36	-	High
68306-68307	New road between Downhead overbridge and Steart Hill	Steart Hill	Single carriageway	-	-	0	47	-	High
68306-68726	Steart Hill	Steart Hill	Single carriageway	-	-	0	53	-	Moderate
68307-68311	New road between Downhead overbridge and the A303 eastbound and Downhead	Downhead	Single carriageway	-	-	57	54	-	Moderate
68307-68322	New overbridge at Downhead	Downhead	Single carriageway	-	-	23	36	-	High
68311-68312	New road between Downhead overbridge and the A303 eastbound and Downhead	Downhead	Single carriageway	-	-	57	28	-	High
68312-68170	A303	Between Downhead and Conegore Corner	Dual carriageway	-	-	762	109	-	Low

ID	Road	Location	Road Type	Average peak flows per lane DM	Average peak speed DM km/h	Average peak flows per lane DS	Average peak speed DS km/h	Driver Stress DM	Driver stress DS
68313-68311	New road between Downhead overbridge and the A303 eastbound and Downhead	Downhead	Single carriageway	-	-	23	58	-	Moderate
68313-68312	A303	Opposite the Spinney	Dual carriageway	-	-	733	90	-	Low
68314-68313	A303	Eastbound between the Spinney and just after the B3151	Dual carriageway	-	-	745	107	-	Low
68315-68319	A303	Westbound at Camel Cross	Dual carriageway	-	-	668	92	-	Low
68315-68721	B3151	Access from the A303 on to the B3151	Single carriageway	-	-	159	50	-	Moderate
68319-68320	A303	Westbound, between B3151 to just before Podimore	Dual carriageway	-	-	689	110	-	Low
68320-68196	A303	Westbound, opposite Annis Hill to Podimore	Dual carriageway	-	-	689	110	-	Low
68322-68722	Existing A303	Plowage Lane to new overbridge for Downhead	Single carriageway	-	-	2	76	-	Low
68709-68710	Church Lane	Podimore	Single carriageway	18	50	18	50	Moderate	Moderate
68710-68713	Unnamed road through Podimore	Higher Farm Lane to the road which connects to the B3151 past RNAS Yeovilton	Single carriageway	53	48	43	54	High	Moderate
68714-68715	A303	B3151 to unnamed road through Podimore	Single carriageway	1184	53	-	-	High	-
68715-68721	B3151	Camel Cross / A303 junction northbound	Single carriageway	1	35	-	-	High	-
68716-68718	B3151	Between local road to Urgashay and Fleet Air Museum	Single carriageway	96	78	54	78	Low	Low
68718-68721	B3151	Between local road to Urgashay and Camel Hill	Single carriageway	95	82	54	62	Low	Moderate
68721-68319	B3151	Access from B3151 onto A303 westbound	Single carriageway	-	-	42	36	-	High
68722-68723	Plowage Lane	A303 to Keep Street	Single carriageway	14	52	19	52	Moderate	Moderate
68722-68724	A303	Plowage Lane to Howel Lane	Single carriageway	1263	60	-	-	High	-
68723-68759	Keep Lane	Plowage Lane to West Camel	Single carriageway	14	51	19	51	Moderate	Moderate
68724-68725	A303	Conegore Corner, to the east of Plowage Lane	Single carriageway	1263	26	-	-	High	-
68725-68727	Howell Hill	A303 to West Camel	Single carriageway	17	48	-	-	High	-
68725-68728	A303	Conegore Corner, just to the west of Howell Hill	Single carriageway	1268	65	-	-	High	-
68728-68729	A303	Conegore Corner to Traits Lane	Single carriageway	1268	52	-	-	High	-

ID	Road	Location	Road Type	Average peak flows per lane DM	Average peak speed DM km/h	Average peak flows per lane DS	Average peak speed DS km/h	Driver Stress DM	Driver stress DS
68729-68730	A303	Traits lane to Hazlegrove Roundabout	Single carriageway	1268	84	-	-	High	-
68730-68808	Hazlegrove Roundabout	Hazlegrove Roundabout, eastbound, to the west of the Roundabout along the A303	Single carriageway	1268	18	-	-	High	-
68732-68733	A359	Wolfester Terrace to Queen Camel	Single carriageway	433	41	415	42	High	High
68732-68805	A359	Wofester Terrace to Hazlegrove Roundabout	Single carriageway	407	69	356	71	Moderate	Low
68734-68802	A359	Hazlegrove Roundabout to Sparkford High Street	Single carriageway	276	27	341	26	High	High
68801-68802	Hazlegrove Roundabout	Hazlegrove Roundabout , A359 northbound at Sparkford exit	Single carriageway	74	47	206	46	High	High
68801-68803	Hazlegrove Roundabout	Hazlegrove Roundabout	Single carriageway	1388	101	300	112	High	Low
68802-68803	Hazlegrove Roundabout	Hazlegrove Roundabout, A359 southbound at Sparkford exit	Single carriageway	276	21	317	32	High	High
68803-68804	Hazlegrove Roundabout	Hazlegrove Roundabout	Single carriageway	1664	98	512	128	High	Low
68804-68805	Hazlegrove Roundabout	Hazlegrove Roundabout , A359, southbound exit for Queen Camel	Single carriageway	433	25	415	25	High	High
68804-68806	Hazlegrove Roundabout	Hazlegrove Roundabout	Single carriageway	1231	103	247	112	High	Low
68805-68809	Hazlegrove Roundabout	Hazlegrove Roundabout, A359, northbound exit for Queen Camel	Single carriageway	407	69	356	71	Moderate	Low
68806-68305	Hazlegrove Roundabout	Hazlegrove Roundabout	Single carriageway	-	-	477	38	-	High
68806-68807	Hazlegrove Roundabout	Hazlegrove Roundabout	Single carriageway	1637	98	-	-	High	-
68807-68730	Hazlegrove Roundabout	Hazlegrove Roundabout, westbound, to the west of the Roundabout along the A303	Single carriageway	1227	6	-	-	High	-
68807-68810	Hazlegrove Roundabout	Hazlegrove rbt	Single carriageway	410	36	-	-	High	-
68808-68810	Hazlegrove Roundabout	Hazlegrove Roundabout t, eastbound, to the west of the Roundabout along the A303	Single carriageway	1268	6	-	-	High	-
68809-68806	Hazlegrove Roundabout	Hazlegrove Roundabout, A359, northbound exit for Queen Camel	Single carriageway	407	50	356	99	Moderate	Low
68810-68811	Hazlegrove Roundabout	Hazlegrove Roundabout	Single carriageway	1679	42	-	-	High	-
68811-61133	A303	Hazlegrove Roundabout to Sparkford Hall. Eastbound	Dual carriageway	803	107	-	-	Low	-
68811-68183	New road between Hazlegrove	Next to Hazlegrove Roundabout	Single carriageway	-	-	195	58	-	Moderate



ID	Road	Location	Road Type	Average peak flows per lane DM	Average peak speed DM km/h	Average peak flows per lane DS	Average peak speed DS km/h	Driver Stress DM	Driver stress DS
	Roundabout and Camel Hill								
68811-68812	Hazlegrove Roundabout	Hazlegrove Roundabout	Single carriageway	73	38	163	38	High	High
68812-68801	Hazlegrove Roundabout	Hazlegrove Roundabout	Single carriageway	1462	29	401	33	High	High