

## Proposed Residential Development

### Buxton Road, Bridgmont

JA/15260/TN01 - 03 November 2015

#### Introduction

1. SCP has been appointed to provide highways consultancy services in support of proposals for a development of 10 residential dwellings located off Buxton Road in Bridgmont, Derbyshire.
2. This technical note has been prepared to support the application and specifically to address comments received from the local highways authority – Derbyshire County Council (DCC).
3. It will address the comments and concerns raised by DCC and demonstrate that the proposals are acceptable in highways terms.

#### Consultation from DCC

4. A series of comments were received from DCC in an email from Nick Knowles to Gary Cullen dated 29<sup>th</sup> June 2015.
5. The comments requested that the following needed to be demonstrated as part of a planning application, and are summarised below:
  - An access of adequate width to enable 2 vehicles travelling in opposite directions to pass;
  - Exit visibility splays of 2.4m x 103m in each direction over land within the applicant's control, or within existing highway boundaries. Any lesser provision will need to be supported by the results of a speed survey;
  - The access would be likely to take the form of a dropped kerb crossover of the footway rather than a kerbed access;
  - Off street parking on the basis of 2 spaces per dwelling to be provided with a minimum space of 2.4m x 5.5m and providing adequate space for all vehicles to manoeuvre and exit the site in a forward gear;
  - Demonstrate turning space for both a refuse vehicle and supermarket delivery vehicle and that the carry distance to each dwelling is less than 25m.

## Visibility

6. As described in Manual for Streets, visibility is determined by the Stopping Sight Distance, which is the distance a driver requires to stop their vehicle in the event that they spot an obstruction. This is defined by the 85<sup>th</sup> percentile wet weather speed of traffic using the link in question. In the vicinity of the proposed site access, Buxton Road is subject to a 40mph speed limit, however the actual speed of vehicles travelling will normally differ. Therefore, to gain an accurate understanding of vehicle speeds, Automatic Traffic Counter (ATC) surveys were undertaken on Buxton Road between the 7<sup>th</sup> and 13<sup>th</sup> September. The survey was conducted in accordance with the methodology contained within TA22/81 of the Design Manual for Roads and Bridges as follows:
- Survey undertaken in early autumn;
  - Readings taken during different times of day, and on different days of the week;
  - Include a minimum of 200 readings;
  - Readings taken between preferred hours of 10:00 - 12:00 and 14:00 and 16:00.
7. Therefore, to gain an accurate understanding of vehicle speeds, Automatic Traffic Counter (ATC) surveys were undertaken on Buxton Road between the 7<sup>th</sup> and 13<sup>th</sup> September. The results to the speed surveys recorded the following speeds, with full results attached at **Appendix 1**.

**Table 1 – Speed Survey Results**

Measurement (mph)	Northbound (from Whaley Bridge)	Southbound (from the A6)
Average Speed	33.1	34.3
85 <sup>th</sup> Percentile Speed (Dry)	38.9	40.9
85 <sup>th</sup> Percentile Speed (Wet)	36.4	38.4

8. As can be seen from **Table 1**, the recorded wet weather speeds along Buxton Road are lower than the 40mph speed limit.
9. These speeds can then be used to determine the required visibility in accordance with the standards set out in either Manual for Streets [MfS], or Design Manual for Roads and Bridges [DMRB]. Which standard is used is dependent upon the design speed with those below 60kph (37.5mph) generally covered by MfS and those above by DMRB.

10. This survey demonstrates that the design speeds along Buxton Road are as follows, with the required visibility indicated.

Direction of Traffic	Observed Design Speed	Resulting Site Access Visibility Requirement From Manual for Streets	Resulting Site Access Visibility Requirement From DMRB
Northbound (from Whaley Bridge)	36.4mph	56m	N/A
Southbound (from the A6)	38.4mph	N/A	94m

11. Therefore, on the basis of the above, the required visibility from the site access along Buxton Road is 94m to the left and 56m to the right. This is achievable as shown by drawing SCP15260 F01 attached at **Appendix 2**.

#### Access

12. Access to the site will be provided via a kerbed entry point. It is considered by SCP that, given the 40mph speed limit of the road, that this offers the best option in terms of both pedestrian and driver

#### Parking & Servicing

13. Parking on site will be provided at a ratio of 2 spaces per dwelling, and will have dimensions of 2.4m x 4.8m in accordance with Manual for Streets. Plan SCP/15260/ATR02 located at **Appendix 3**, illustrates that all spaces are accessible to a large family car.
14. Plan SCP/15260/ATR01 at **Appendix 4** illustrates that both a large refuse vehicle and a 7.5 ton box van (taken to represent a supermarket delivery vehicle) can both enter the site, manoeuvre and exit the site in a forward gear.

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## **Summary & Conclusions**

15. This note has been prepared to address the comments and concerns raised by highways officers at Derbyshire County Council relating to a proposed development of 10 residential dwellings off Buxton Road in Bridgmont.
16. The note concludes the following:
  - Visibility from the access can be provided in accordance with Manual for Streets;
  - Access in the form of a kerbed entry is considered more appropriate than a crossover'
  - The access is of a suitable width to allow 2 vehicles to pass each other;
  - Off street parking can be provided with 2 spaces per dwellings with dimensions of 2.4m x 4.8m. All vehicles can manoeuvre and exit the site in a forward gear;
  - A turning space has been provided for both a refuse vehicle and supermarket delivery vehicle and that the carry distance from this location to each dwelling is less than 25m.
17. It is therefore concluded that the queries and concerns raised by highways officers at Derbyshire County Council have been addressed and that there are no highways or transportation grounds upon which to refuse the application.

**S|C|P**

## **APPENDIX 1**

# Automatic Classified Counts, Bridgemont

LOCATION: BUXTON ROAD

Direction : SOUTHBOUND

Monday 07/09/2015	VEHICLE CLASSIFICATION													TOTAL
Hr	1	2	3	4	5	6	7	8	9	10	11	12	13	
10:00 - 11:00	262	47	3	0	0	0	2	0	1	0	1	8	0	324
11:00 - 12:00	276	42	1	0	1	0	1	0	1	0	0	6	0	328
14:00 - 15:00	299	36	1	0	2	0	0	1	1	0	1	9	0	350
15:00 - 16:00	312	45	0	1	1	0	0	0	1	0	0	4	0	364
Total	1149	170	5	1	4	0	3	1	4	0	2	27	0	1366

Direction : NORTHBOUND

Monday 07/09/2015	VEHICLE CLASSIFICATION													TOTAL
Hr	1	2	3	4	5	6	7	8	9	10	11	12	13	
10:00 - 11:00	311	48	2	0	0	0	0	1	1	0	0	5	0	368
11:00 - 12:00	313	36	3	0	0	0	0	0	0	0	3	7	0	362
14:00 - 15:00	304	40	1	0	0	0	0	0	0	0	0	8	0	353
15:00 - 16:00	319	36	1	0	4	0	0	0	0	0	0	7	0	367
Total	1247	160	7	0	4	0	0	1	1	0	3	27	0	1450

LOCATION: BUXTON ROAD

Direction : SOUTHBOUND

Monday 07/09/2015	VEHICLE SPEED (MPH)												TOTAL
Hr	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
10:00 - 11:00	0	3	69	78	107	56	10	1	0	0	0	0	324
11:00 - 12:00	2	3	71	88	103	47	8	6	0	0	0	0	328
14:00 - 15:00	0	3	68	96	112	60	9	2	0	0	0	0	350
15:00 - 16:00	2	3	70	107	112	55	9	4	2	0	0	0	364
Total	4	12	278	369	434	218	36	13	2	0	0	0	1366

Direction : NORTHBOUND

Monday 07/09/2015	VEHICLE SPEED (MPH)												TOTAL
Hr	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
10:00 - 11:00	0	2	60	182	98	22	4	0	0	0	0	0	368
11:00 - 12:00	0	5	86	163	94	11	2	1	0	0	0	0	362
14:00 - 15:00	0	3	65	162	102	17	3	0	1	0	0	0	353
15:00 - 16:00	0	3	58	176	100	26	4	0	0	0	0	0	367
Total	0	13	269	683	394	76	13	1	1	0	0	0	1450

# Automatic Classified Counts, Bridgemont

LOCATION: BUXTON ROAD

Direction : SOUTHBOUND

Tuesday 08/09/2015	VEHICLE CLASSIFICATION													TOTAL
Hr	1	2	3	4	5	6	7	8	9	10	11	12	13	
10:00 - 11:00	308	42	0	2	1	0	0	0	1	0	0	6	0	360
11:00 - 12:00	299	42	1	0	1	0	0	0	0	0	1	8	0	352
14:00 - 15:00	288	38	1	0	0	0	0	1	4	0	1	7	0	340
15:00 - 16:00	324	39	1	0	0	0	0	1	2	0	0	8	0	375

Total	1219	161	3	2	2	0	0	2	7	0	2	29	0	1427
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Direction : NORTHBOUND

Tuesday 08/09/2015	VEHICLE CLASSIFICATION													TOTAL
Hr	1	2	3	4	5	6	7	8	9	10	11	12	13	
10:00 - 11:00	310	39	3	0	1	0	0	0	0	0	0	9	0	362
11:00 - 12:00	311	42	0	1	2	0	0	0	3	0	1	10	0	370
14:00 - 15:00	330	38	0	0	1	0	0	0	1	0	2	9	0	381
15:00 - 16:00	406	40	0	0	1	0	0	0	4	1	0	6	0	458

Total	1357	159	3	1	5	0	0	0	8	1	3	34	0	1571
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LOCATION: BUXTON ROAD

Direction : SOUTHBOUND

Tuesday 08/09/2015	VEHICLE SPEED (MPH)												TOTAL
Hr	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
10:00 - 11:00	0	3	74	108	114	48	7	4	2	0	0	0	360
11:00 - 12:00	0	1	83	101	130	31	5	1	0	0	0	0	352
14:00 - 15:00	0	2	66	101	117	36	13	3	1	0	1	0	340
15:00 - 16:00	0	2	77	122	112	51	7	2	1	1	0	0	375

Total	0	8	300	432	473	166	32	10	4	1	1	0	1427
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Direction : NORTHBOUND

Tuesday 08/09/2015	VEHICLE SPEED (MPH)												TOTAL
Hr	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
10:00 - 11:00	0	7	86	150	95	21	2	1	0	0	0	0	362
11:00 - 12:00	0	2	84	163	100	20	0	1	0	0	0	0	370
14:00 - 15:00	0	4	118	141	94	20	3	1	0	0	0	0	381
15:00 - 16:00	1	4	121	209	99	21	3	0	0	0	0	0	458

Total	1	17	409	663	388	82	8	3	0	0	0	0	1571
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# Automatic Classified Counts, Bridgemont

LOCATION: BUXTON ROAD

Direction : SOUTHBOUND

Wednesday 09/09/2015	VEHICLE CLASSIFICATION													TOTAL
Hr	1	2	3	4	5	6	7	8	9	10	11	12	13	
10:00 - 11:00	238	44	0	1	2	0	1	0	3	0	0	6	0	295
11:00 - 12:00	306	50	0	1	0	0	0	0	1	0	2	11	0	371
14:00 - 15:00	287	44	0	1	0	0	0	0	0	0	1	10	0	343
15:00 - 16:00	311	34	0	2	1	0	0	0	0	0	0	5	0	353
Total	1142	172	0	5	3	0	1	0	4	0	3	32	0	1362

Direction : NORTHBOUND

Wednesday 09/09/2015	VEHICLE CLASSIFICATION													TOTAL
Hr	1	2	3	4	5	6	7	8	9	10	11	12	13	
10:00 - 11:00	312	36	0	1	0	0	0	1	0	0	2	5	0	357
11:00 - 12:00	319	42	0	3	1	0	0	0	1	0	1	8	0	375
14:00 - 15:00	312	34	0	0	1	0	0	0	0	0	1	6	0	354
15:00 - 16:00	379	34	0	0	1	0	0	0	1	0	0	9	0	424
Total	1322	146	0	4	3	0	0	1	2	0	4	28	0	1510

LOCATION: BUXTON ROAD

Direction : SOUTHBOUND

Wednesday 09/09/2015	VEHICLE SPEED (MPH)												TOTAL
Hr	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
10:00 - 11:00	1	4	62	78	84	56	9	0	1	0	0	0	295
11:00 - 12:00	0	1	87	145	103	31	4	0	0	0	0	0	371
14:00 - 15:00	0	1	77	104	96	48	12	4	0	1	0	0	343
15:00 - 16:00	1	5	68	111	118	37	12	1	0	0	0	0	353
Total	2	11	294	438	401	172	37	5	1	1	0	0	1362

Direction : NORTHBOUND

Wednesday 09/09/2015	VEHICLE SPEED (MPH)												TOTAL
Hr	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
10:00 - 11:00	0	3	77	154	100	23	0	0	0	0	0	0	357
11:00 - 12:00	0	5	83	151	109	19	8	0	0	0	0	0	375
14:00 - 15:00	0	2	68	148	97	32	6	1	0	0	0	0	354
15:00 - 16:00	1	4	126	164	92	30	6	0	1	0	0	0	424
Total	1	14	354	617	398	104	20	1	1	0	0	0	1510



# Automatic Classified Counts, Bridgemont

LOCATION: BUXTON ROAD

Direction : SOUTHBOUND

Thursday 10/09/2015	VEHICLE CLASSIFICATION													TOTAL
Hr	1	2	3	4	5	6	7	8	9	10	11	12	13	
10:00 - 11:00	287	50	3	0	3	0	0	0	1	0	0	5	0	349
11:00 - 12:00	303	50	2	1	0	0	0	0	1	0	3	6	0	366
14:00 - 15:00	320	53	1	0	1	0	1	1	2	0	0	5	0	384
15:00 - 16:00	383	47	0	0	3	0	0	1	0	0	2	11	0	447
Total	1293	200	6	1	7	0	1	2	4	0	5	27	0	1546

Direction : NORTHBOUND

Thursday 10/09/2015	VEHICLE CLASSIFICATION													TOTAL
Hr	1	2	3	4	5	6	7	8	9	10	11	12	13	
10:00 - 11:00	279	46	1	0	1	0	3	0	0	0	0	6	0	336
11:00 - 12:00	304	38	1	0	1	0	0	2	1	0	2	5	0	354
14:00 - 15:00	367	53	2	0	1	0	0	1	3	0	1	5	0	433
15:00 - 16:00	438	46	1	0	4	0	0	0	0	0	0	5	0	494
Total	1388	183	5	0	7	0	3	3	4	0	3	21	0	1617

LOCATION: BUXTON ROAD

Direction : SOUTHBOUND

Thursday 10/09/2015	VEHICLE SPEED (MPH)												TOTAL
Hr	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
10:00 - 11:00	0	4	57	105	130	44	7	2	0	0	0	0	349
11:00 - 12:00	0	5	91	131	101	31	6	1	0	0	0	0	366
14:00 - 15:00	1	2	77	116	121	53	9	2	3	0	0	0	384
15:00 - 16:00	0	1	82	135	161	47	18	1	1	1	0	0	447
Total	1	12	307	487	513	175	40	6	4	1	0	0	1546

Direction : NORTHBOUND

Thursday 10/09/2015	VEHICLE SPEED (MPH)												TOTAL
Hr	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
10:00 - 11:00	0	3	51	147	102	28	5	0	0	0	0	0	336
11:00 - 12:00	0	8	91	163	59	29	3	1	0	0	0	0	354
14:00 - 15:00	0	9	82	192	121	26	2	1	0	0	0	0	433
15:00 - 16:00	0	4	100	227	130	26	6	1	0	0	0	0	494
Total	0	24	324	729	412	109	16	3	0	0	0	0	1617

# Automatic Classified Counts, Bridgemont

LOCATION: BUXTON ROAD

Direction : SOUTHBOUND

Friday 11/09/2015	VEHICLE CLASSIFICATION													TOTAL
Hr	1	2	3	4	5	6	7	8	9	10	11	12	13	
10:00 - 11:00	325	45	0	3	0	0	2	0	0	0	1	3	0	379
11:00 - 12:00	172	28	0	0	0	0	1	0	2	0	0	2	0	205
14:00 - 15:00	390	53	1	0	2	0	1	2	0	0	1	9	0	459
15:00 - 16:00	417	39	0	0	0	0	0	0	0	0	0	5	0	461
Total	1304	165	1	3	2	0	4	2	2	0	2	19	0	1504

Direction : NORTHBOUND

Friday 11/09/2015	VEHICLE CLASSIFICATION													TOTAL
Hr	1	2	3	4	5	6	7	8	9	10	11	12	13	
10:00 - 11:00	293	46	0	1	2	0	2	2	1	0	2	3	0	352
11:00 - 12:00	243	34	1	3	0	0	0	0	2	0	2	6	0	291
14:00 - 15:00	387	44	0	2	0	0	1	1	1	0	0	12	0	448
15:00 - 16:00	385	38	1	0	1	0	0	1	0	0	1	6	0	433
Total	1308	162	2	6	3	0	3	4	4	0	5	27	0	1524

LOCATION: BUXTON ROAD

Direction : SOUTHBOUND

Friday 11/09/2015	VEHICLE SPEED (MPH)												TOTAL
Hr	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
10:00 - 11:00	0	45	100	109	97	24	4	0	0	0	0	0	379
11:00 - 12:00	0	14	54	53	56	24	3	1	0	0	0	0	205
14:00 - 15:00	1	4	115	111	162	52	9	4	1	0	0	0	459
15:00 - 16:00	0	6	88	158	154	44	9	2	0	0	0	0	461
Total	1	69	357	431	469	144	25	7	1	0	0	0	1504

Direction : NORTHBOUND

Friday 11/09/2015	VEHICLE SPEED (MPH)												TOTAL
Hr	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
10:00 - 11:00	0	22	111	138	69	12	0	0	0	0	0	0	352
11:00 - 12:00	0	13	92	94	58	15	7	5	5	1	1	0	291
14:00 - 15:00	0	15	106	209	95	17	6	0	0	0	0	0	448
15:00 - 16:00	0	6	80	195	112	28	8	4	0	0	0	0	433
Total	0	56	389	636	334	72	21	9	5	1	1	0	1524

# Automatic Classified Counts, Bridgemont

LOCATION: BUXTON ROAD

Direction : SOUTHBOUND

Saturday 12/09/2015	VEHICLE CLASSIFICATION													TOTAL
Hr	1	2	3	4	5	6	7	8	9	10	11	12	13	
10:00 - 11:00	328	32	0	0	0	0	0	0	0	0	0	3	0	363
11:00 - 12:00	374	32	0	0	1	0	0	0	0	0	0	5	0	412
14:00 - 15:00	339	20	0	1	1	0	0	0	0	0	0	3	0	364
15:00 - 16:00	302	18	0	1	0	0	0	0	0	0	0	4	0	325
Total	1343	102	0	2	2	0	0	0	0	0	0	15	0	1464

Direction : NORTHBOUND

Saturday 12/09/2015	VEHICLE CLASSIFICATION													TOTAL
Hr	1	2	3	4	5	6	7	8	9	10	11	12	13	
10:00 - 11:00	351	20	0	0	1	0	1	0	0	0	0	3	0	376
11:00 - 12:00	435	19	0	0	2	0	1	0	0	0	0	5	0	462
14:00 - 15:00	343	15	0	1	0	0	0	0	1	0	0	5	0	365
15:00 - 16:00	342	15	0	2	0	0	0	0	0	0	0	1	0	360
Total	1471	69	0	3	3	0	2	0	1	0	0	14	0	1563

LOCATION: BUXTON ROAD

Direction : SOUTHBOUND

Saturday 12/09/2015	VEHICLE SPEED (MPH)												TOTAL
Hr	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
10:00 - 11:00	0	2	86	112	130	24	8	1	0	0	0	0	363
11:00 - 12:00	0	0	99	153	115	39	4	2	0	0	0	0	412
14:00 - 15:00	0	1	91	123	108	34	6	1	0	0	0	0	364
15:00 - 16:00	0	2	89	99	83	38	10	4	0	0	0	0	325
Total	0	5	365	487	436	135	28	8	0	0	0	0	1464

Direction : NORTHBOUND

Saturday 12/09/2015	VEHICLE SPEED (MPH)												TOTAL
Hr	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
10:00 - 11:00	0	0	84	169	102	20	1	0	0	0	0	0	376
11:00 - 12:00	0	6	148	197	92	19	0	0	0	0	0	0	462
14:00 - 15:00	0	10	70	164	99	20	1	1	0	0	0	0	365
15:00 - 16:00	0	7	78	149	98	19	8	1	0	0	0	0	360
Total	0	23	380	679	391	78	10	2	0	0	0	0	1563

# Automatic Classified Counts, Bridgemont

LOCATION: BUXTON ROAD

Direction : SOUTHBOUND

Sunday 13/09/2015	VEHICLE CLASSIFICATION													TOTAL
Hr	1	2	3	4	5	6	7	8	9	10	11	12	13	
10:00 - 11:00	311	21	1	1	0	0	0	0	0	0	0	1	0	335
11:00 - 12:00	354	23	0	1	0	0	0	0	0	0	0	2	0	380
14:00 - 15:00	377	17	0	0	1	0	1	1	0	0	0	1	0	398
15:00 - 16:00	371	19	0	1	0	0	0	1	0	0	0	1	0	393
Total	1413	80	1	3	1	0	1	2	0	0	0	5	0	1506

Direction : NORTHBOUND

Sunday 13/09/2015	VEHICLE CLASSIFICATION													TOTAL
Hr	1	2	3	4	5	6	7	8	9	10	11	12	13	
10:00 - 11:00	345	11	0	0	0	0	1	2	0	0	0	1	0	360
11:00 - 12:00	366	14	0	0	0	0	1	1	0	0	0	1	0	383
14:00 - 15:00	441	20	0	0	0	0	0	1	0	0	0	1	0	463
15:00 - 16:00	376	12	0	0	2	0	1	0	0	0	0	1	0	392
Total	1528	57	0	0	2	0	3	4	0	0	0	4	0	1598

LOCATION: BUXTON ROAD

Direction : SOUTHBOUND

Sunday 13/09/2015	VEHICLE SPEED (MPH)												TOTAL
Hr	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
10:00 - 11:00	0	7	76	90	122	30	7	3	0	0	0	0	335
11:00 - 12:00	0	9	72	104	131	54	8	2	0	0	0	0	380
14:00 - 15:00	0	5	103	132	114	36	7	1	0	0	0	0	398
15:00 - 16:00	0	7	97	124	118	37	6	2	1	1	0	0	393
Total	0	28	348	450	485	157	28	8	1	1	0	0	1506

Direction : NORTHBOUND

Sunday 13/09/2015	VEHICLE SPEED (MPH)												TOTAL
Hr	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120	
10:00 - 11:00	0	12	59	119	125	37	8	0	0	0	0	0	360
11:00 - 12:00	0	9	86	165	103	13	3	4	0	0	0	0	383
14:00 - 15:00	0	12	94	205	126	26	0	0	0	0	0	0	463
15:00 - 16:00	0	4	69	183	101	31	3	1	0	0	0	0	392
Total	0	37	308	672	455	107	14	5	0	0	0	0	1598

# Automatic Classified Counts, Bridgemont

LOCATION: BUXTON ROAD

Direction : SOUTHBOUND

VEHICLE FLOWS									
Hr Ending	Monday 7-Sep-15	Tuesday 8-Sep-15	Wednesday 9-Sep-15	Thursday 10-Sep-15	Friday 11-Sep-15	Saturday 12-Sep-15	Sunday 13-Sep-15	WEEKDAY AVERAGE	WEEK AVERAGE
11	324	360	295	349	379	363	335	341	344
12	328	352	371	366	205	412	380	324	345
15	350	340	343	384	459	364	398	375	377
16	364	375	353	447	461	325	393	400	388
0-24	1366	1427	1362	1546	1504	1464	1506	1441	1454

LOCATION: BUXTON ROAD

Direction : NORTHBOUND

VEHICLE FLOWS									
Hr Ending	Monday 7-Sep-15	Tuesday 8-Sep-15	Wednesday 9-Sep-15	Thursday 10-Sep-15	Friday 11-Sep-15	Saturday 12-Sep-15	Sunday 13-Sep-15	WEEKDAY AVERAGE	WEEK AVERAGE
11	368	362	357	336	352	376	360	355	359
12	362	370	375	354	291	462	383	350	371
15	353	381	354	433	448	365	463	394	400
16	367	458	424	494	433	360	392	435	418
0-24	1450	1571	1510	1617	1524	1563	1598	1534	1548

# Automatic Classified Counts, Bridgemont

LOCATION: BUXTON ROAD

Direction : SOUTHBOUND

AVERAGE SPEEDS							
Hr Ending	Monday 7-Sep-15	Tuesday 8-Sep-15	Wednesday 9-Sep-15	Thursday 10-Sep-15	Friday 11-Sep-15	Saturday 12-Sep-15	Sunday 13-Sep-15
11	35.1	34.9	35.0	35.1	31.0	34.0	34.1
12	34.8	34.2	33.6	33.4	32.7	33.8	34.7
15	35.2	35.2	34.9	34.9	34.3	33.8	33.5
16	35.0	34.8	34.5	35.2	34.3	34.0	33.8
10-12	35.0	34.5	34.3	34.3	31.8	33.9	34.4
14-16	35.1	35.0	34.7	35.1	34.3	33.9	33.6
0-24	35.0	34.7	34.5	34.7	33.1	33.9	34.0

85TH PERCENTILE							
Hr Ending	Monday 7-Sep-15	Tuesday 8-Sep-15	Wednesday 9-Sep-15	Thursday 10-Sep-15	Friday 11-Sep-15	Saturday 12-Sep-15	Sunday 13-Sep-15
11	41.8	41.5	42.0	41.2	38.9	39.9	40.8
12	42.0	40.1	39.2	39.6	40.4	39.6	41.4
15	41.7	42.0	41.7	41.7	41.1	39.8	39.8
16	42.1	41.2	41.1	41.5	40.4	40.8	40.5
10-12	41.9	40.8	40.6	40.4	39.7	39.8	41.1
14-16	41.9	41.6	41.4	41.6	40.8	40.3	40.1
0-24	41.9	41.2	41.0	41.0	40.2	40.0	40.6

7 DAY AVERAGE SPEED	34.3
7 DAY AVERAGE 85th PERCENTILE	40.9
7 DAY 85th PERCENTILE WET	38.4

# Automatic Classified Counts. Bridgemont

LOCATION: BUXTON ROAD

Direction : NORTHBOUND

AVERAGE SPEEDS							
Hr Ending	Monday 7-Sep-15	Tuesday 8-Sep-15	Wednesday 9-Sep-15	Thursday 10-Sep-15	Friday 11-Sep-15	Saturday 12-Sep-15	Sunday 13-Sep-15
11	33.8	32.9	33.3	34.3	30.9	33.3	34.3
12	32.7	33.1	33.4	32.5	32.8	31.8	32.9
15	33.6	32.4	34.0	33.3	32.3	33.1	32.9
16	33.9	32.4	32.6	33.4	33.8	33.3	33.7
10-12	33.2	33.0	33.3	33.4	31.8	32.5	33.6
14-16	33.8	32.4	33.3	33.4	33.0	33.2	33.3
0-24	33.5	32.7	33.3	33.4	32.4	32.9	33.5

85TH PERCENTILE							
Hr Ending	Monday 7-Sep-15	Tuesday 8-Sep-15	Wednesday 9-Sep-15	Thursday 10-Sep-15	Friday 11-Sep-15	Saturday 12-Sep-15	Sunday 13-Sep-15
11	38.8	38.7	38.6	39.7	37.2	38.3	40.8
12	38.1	38.4	39.2	38.6	41.4	37.2	38.9
15	38.9	38.3	39.7	39.0	38.2	38.8	38.6
16	39.1	38.0	38.8	38.8	39.7	39.3	39.2
10-12	38.5	38.6	38.9	39.1	39.3	37.8	39.8
14-16	39.0	38.1	39.3	38.9	38.9	39.1	38.9
0-24	38.7	38.4	39.1	39.0	39.1	38.4	39.4

7 DAY AVERAGE SPEED	33.1
7 DAY AVERAGE 85th PERCENTILE	38.9
7 DAY 85th PERCENTILE WET	36.4

## Automatic Classified Counts, Bridgemont

LOCATION: BUXTON ROAD

Direction : SOUTHBOUND

SPEED SUMMARY							
SPEED (MPH)	Monday 7-Sep-15	Tuesday 8-Sep-15	Wednesday 9-Sep-15	Thursday 10-Sep-15	Friday 11-Sep-15	Saturday 12-Sep-15	Sunday 13-Sep-15
0-30	294	308	307	320	427	370	376
31-45	1021	1071	1011	1175	1044	1058	1092
46-60	51	46	43	50	33	36	37
61-120	0	2	1	1	0	0	1
TOTAL	1366	1427	1362	1546	1504	1464	1506

## Automatic Classified Counts. Bridgemont

LOCATION: BUXTON ROAD

Direction : NORTHBOUND

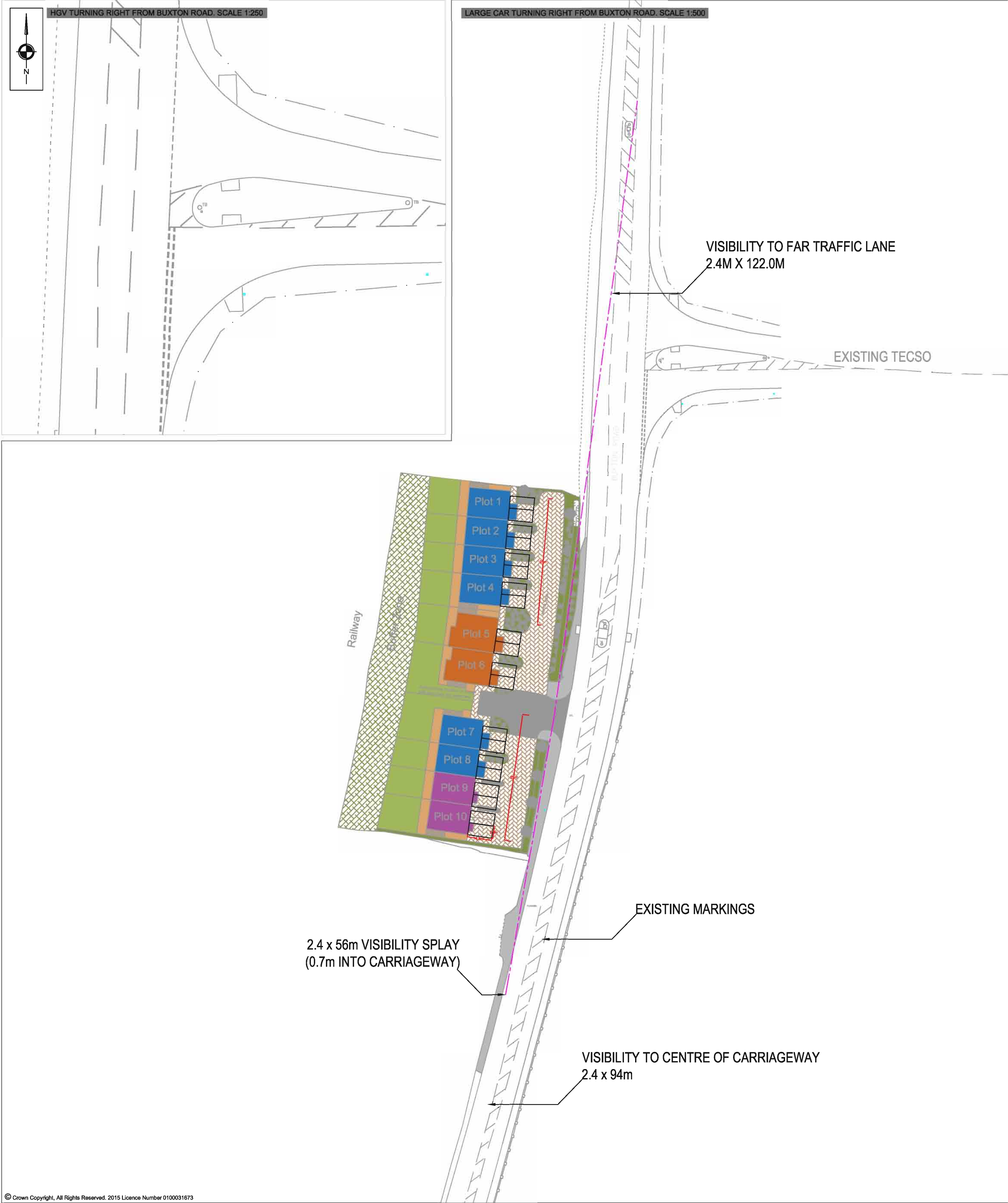
SPEED SUMMARY							
SPEED (MPH)	Monday 7-Sep-15	Tuesday 8-Sep-15	Wednesday 9-Sep-15	Thursday 10-Sep-15	Friday 11-Sep-15	Saturday 12-Sep-15	Sunday 13-Sep-15
0-30	282	427	369	348	445	403	345
31-45	1153	1133	1119	1250	1042	1148	1234
46-60	15	11	22	19	35	12	19
61-120	0	0	0	0	2	0	0
TOTAL	1450	1571	1510	1617	1524	1563	1598



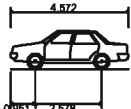
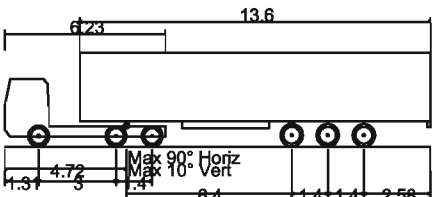


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## **APPENDIX 2**



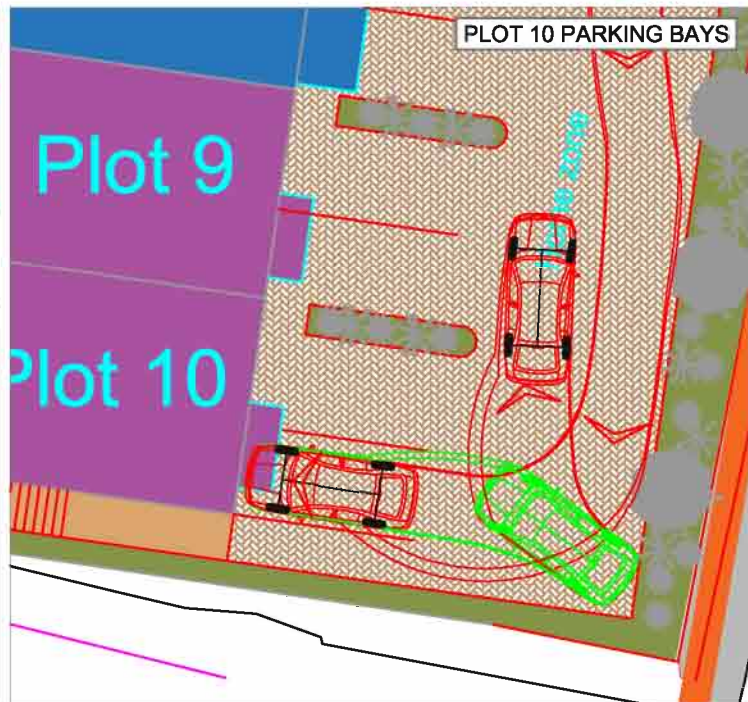
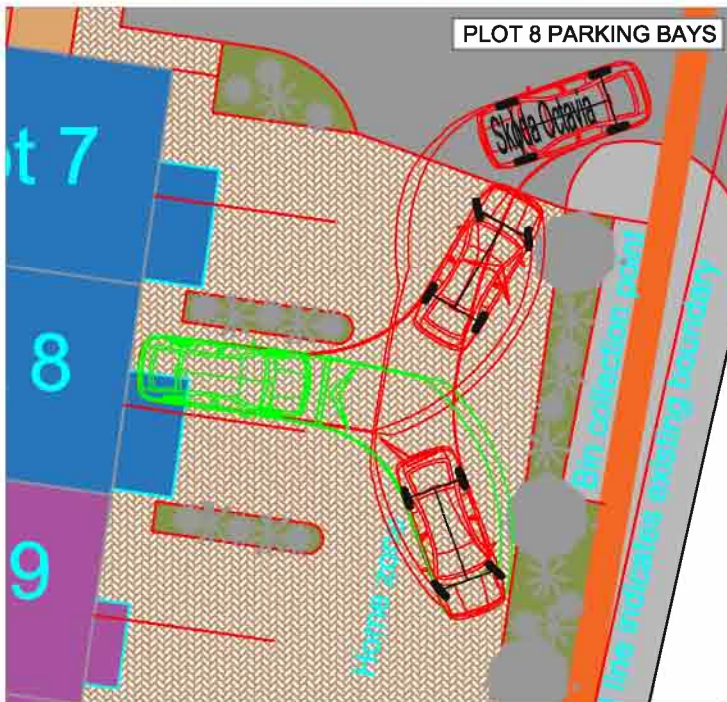
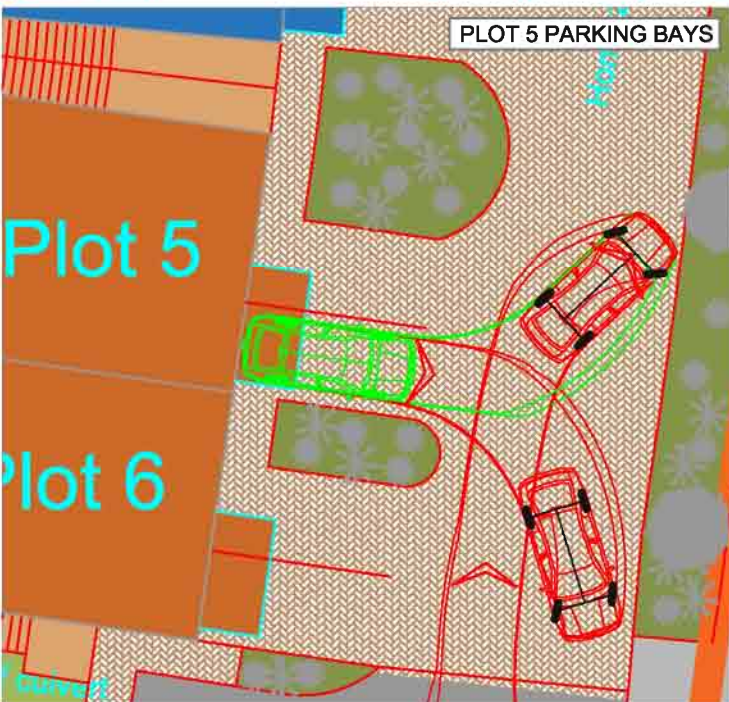
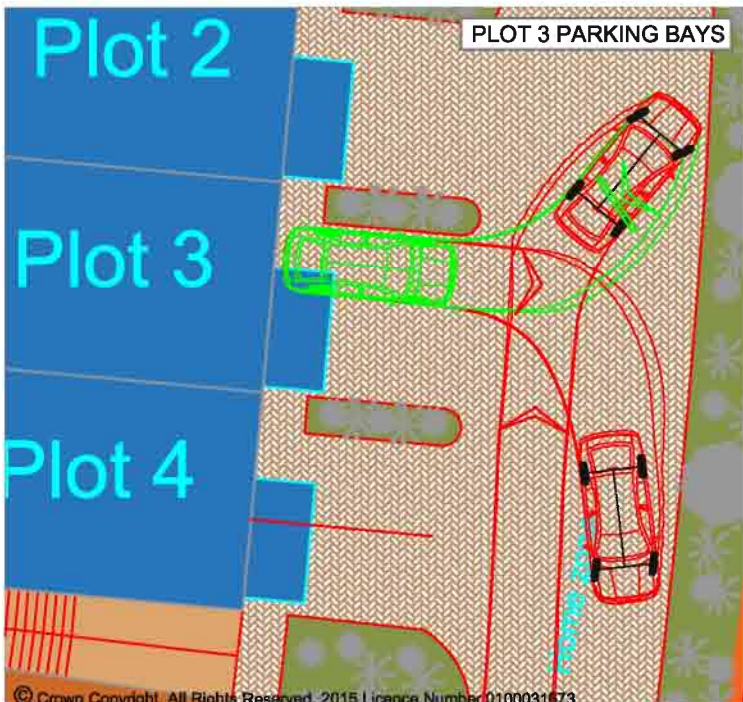
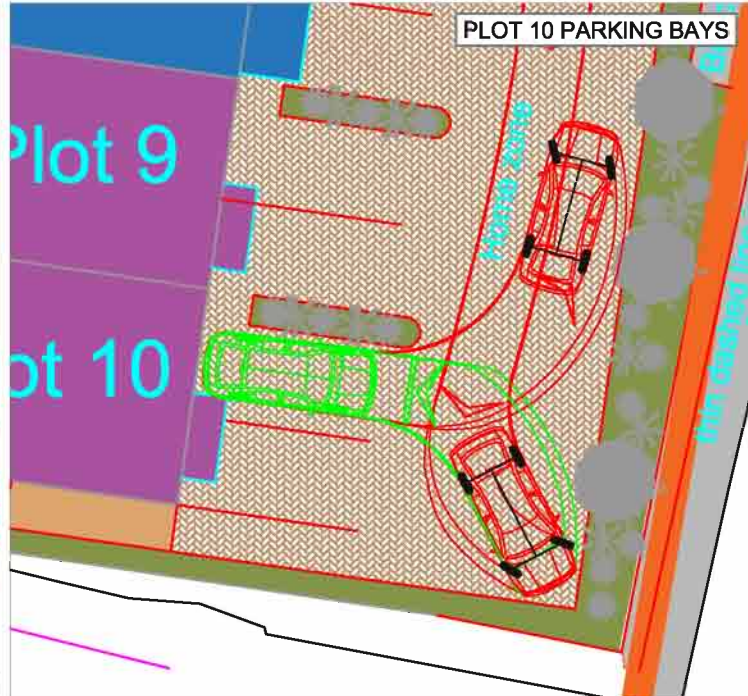
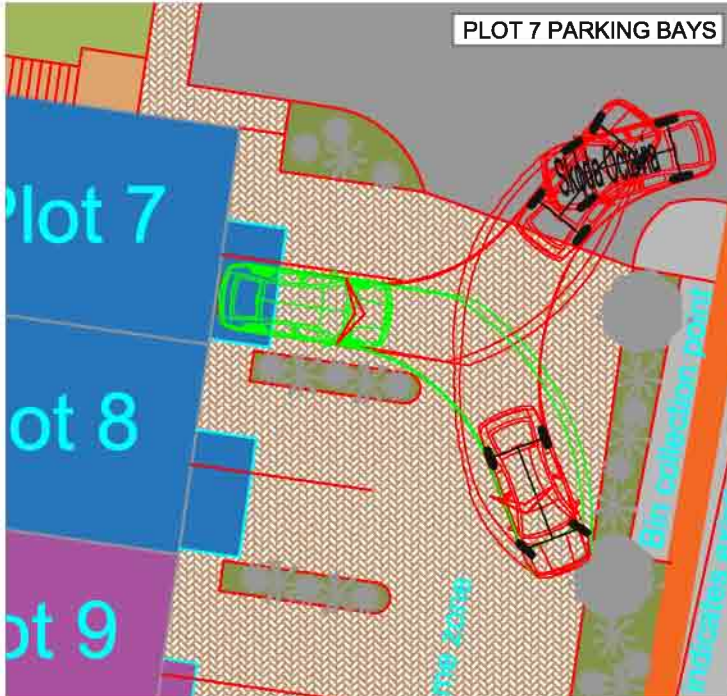
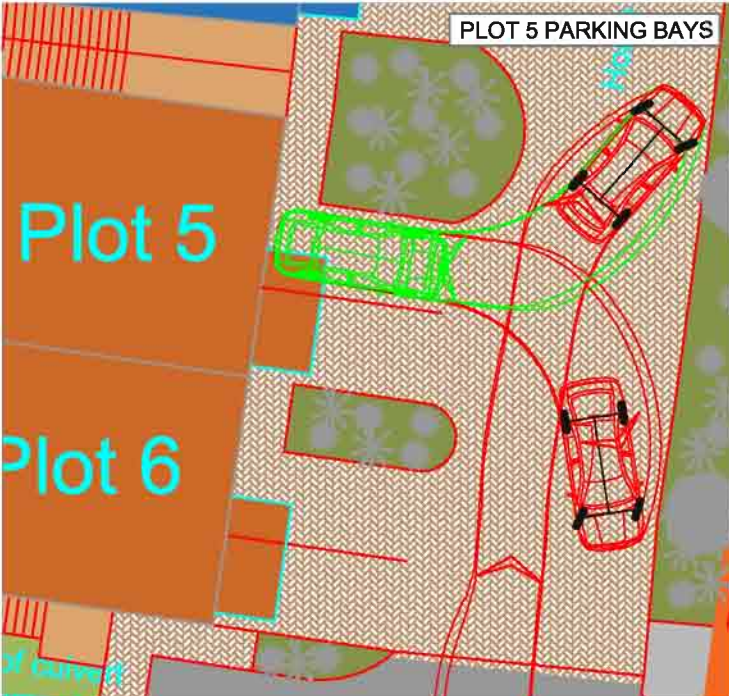
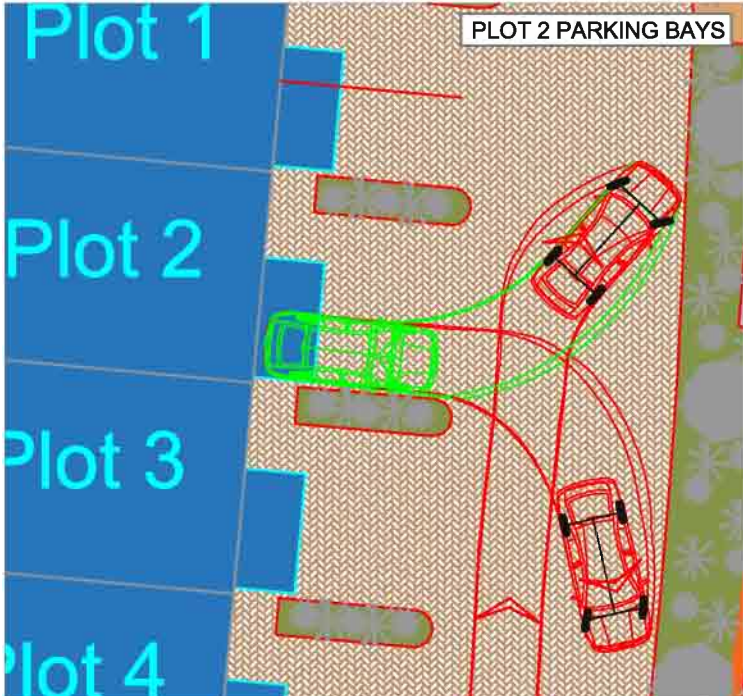
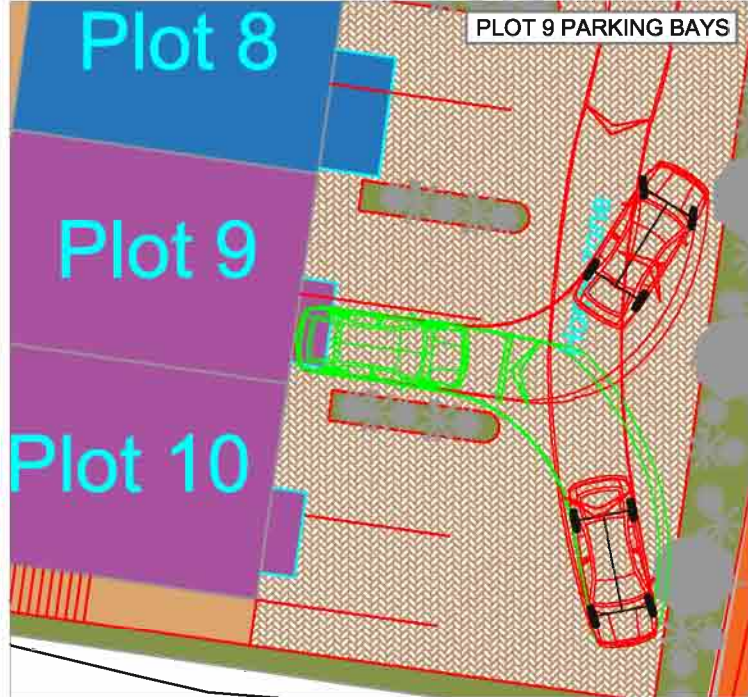
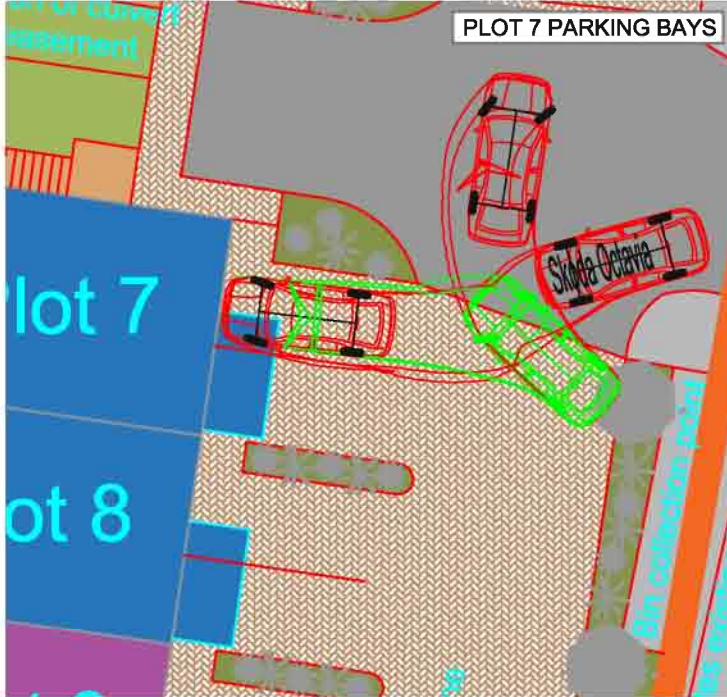
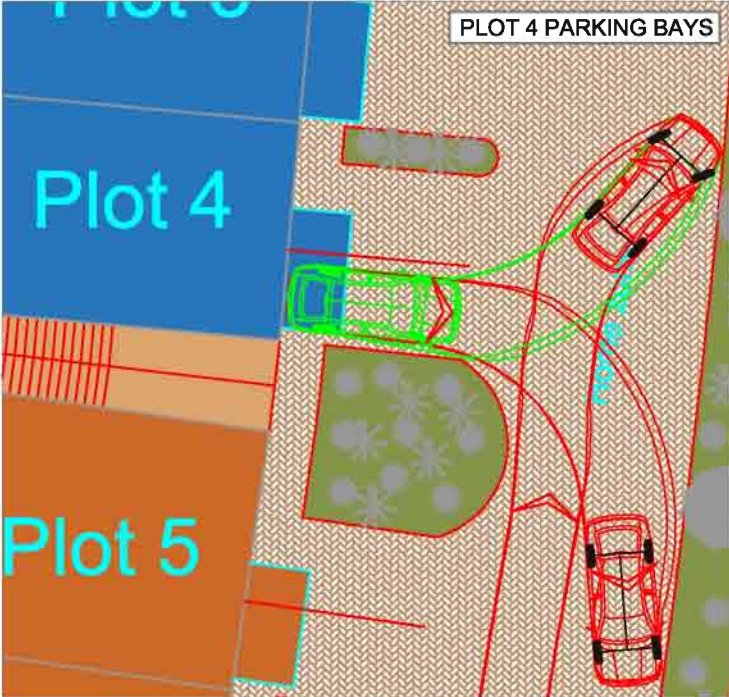
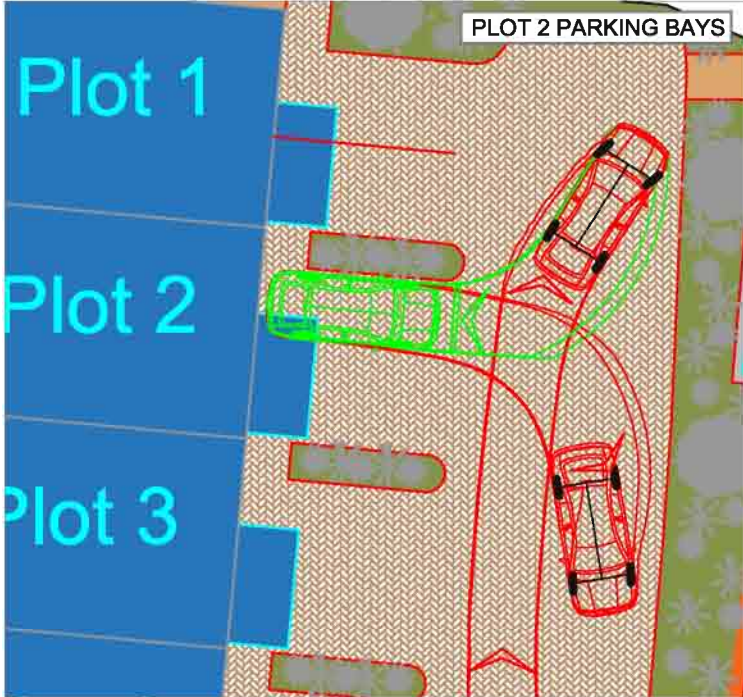
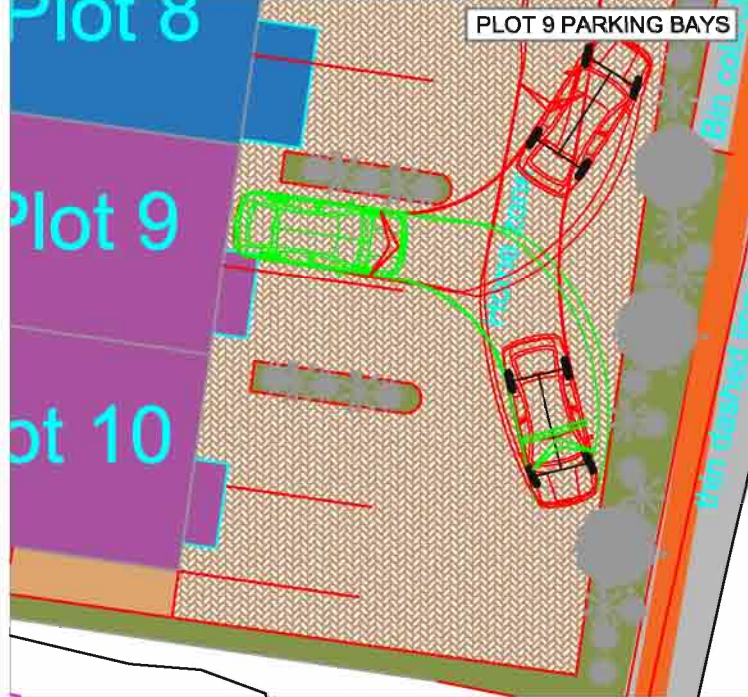
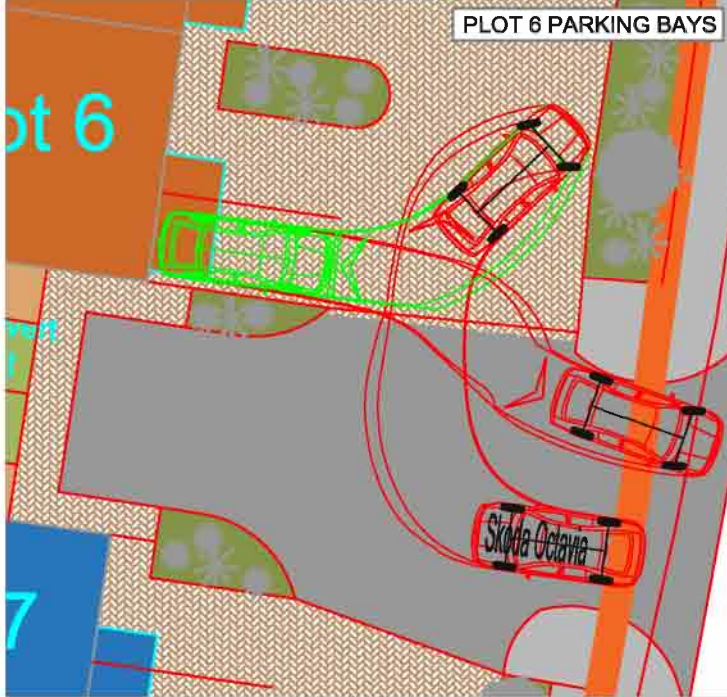
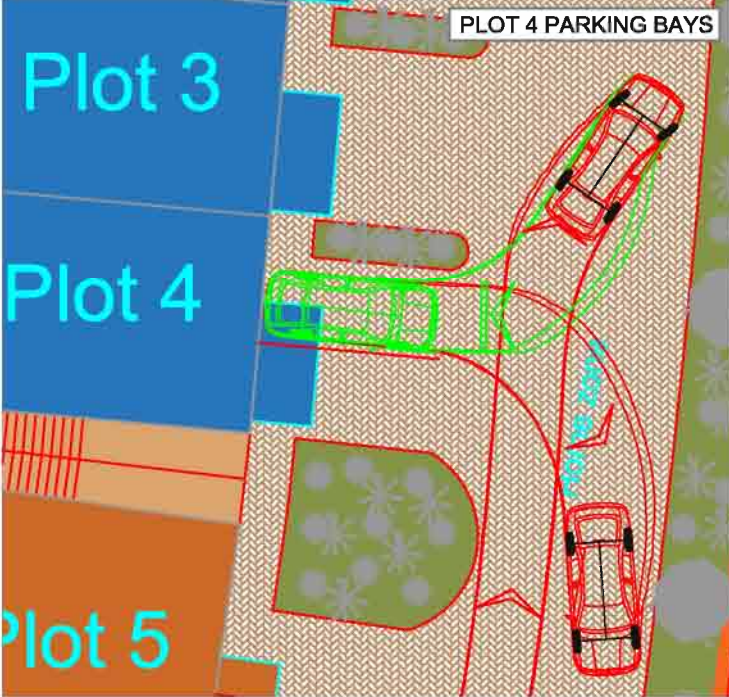
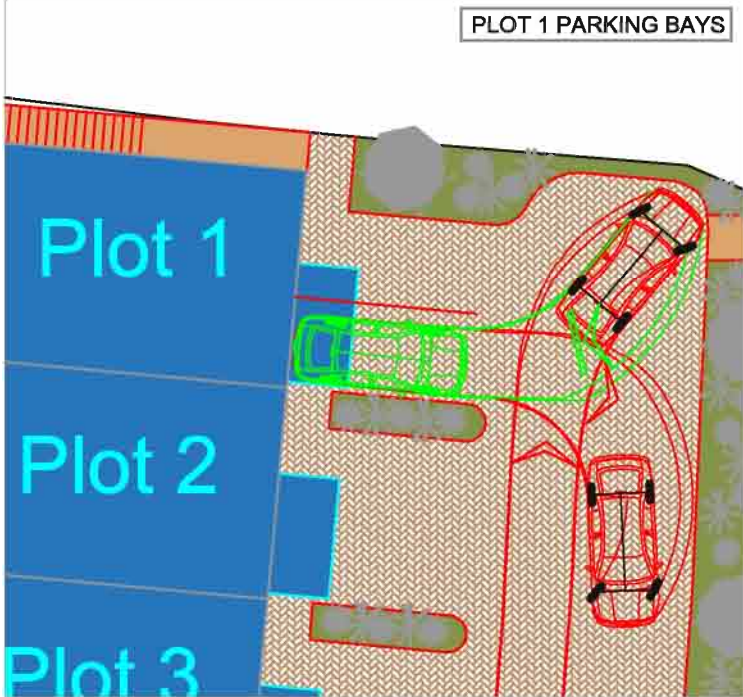
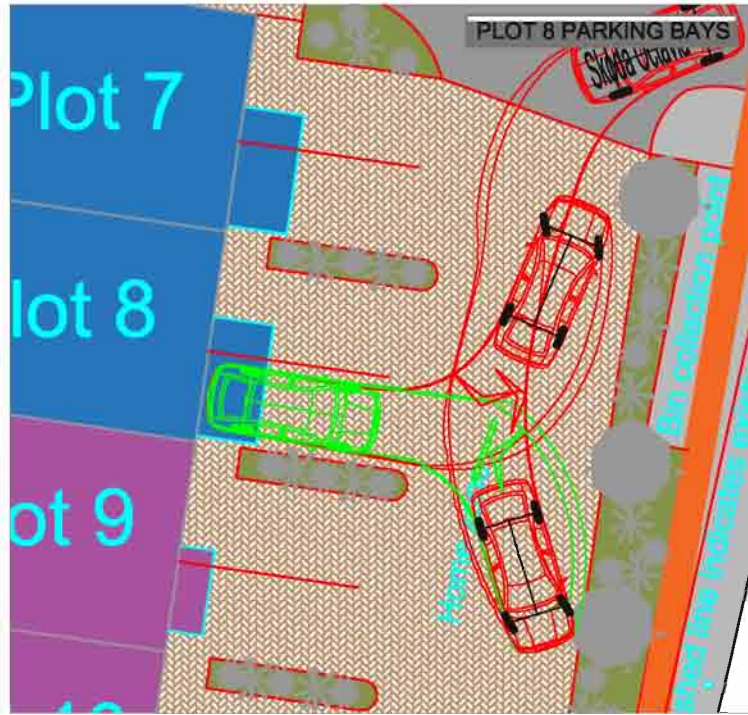
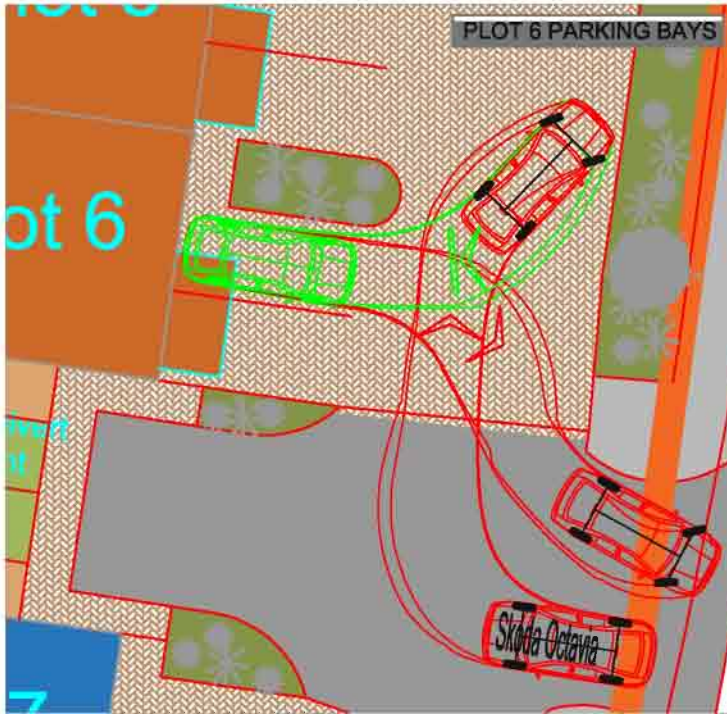
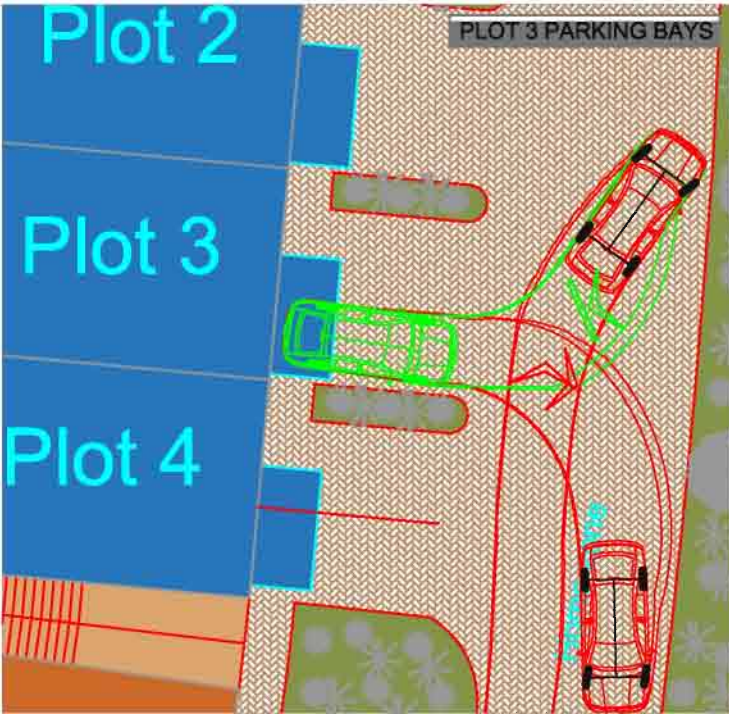
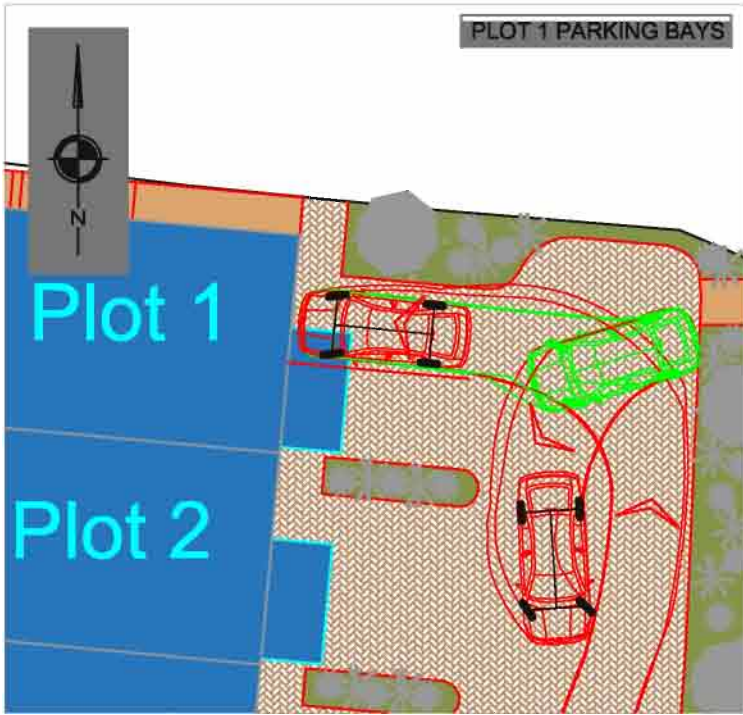
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NOTES		REVISIONS				S   C   P														
		<p>Skoda Octavia</p> <table><tr><td>Overall Length</td><td>4.572m</td></tr><tr><td>Overall Width</td><td>1.769m</td></tr><tr><td>Overall Body Height</td><td>1.488m</td></tr><tr><td>Min Body Ground Clearance</td><td>0.249m</td></tr><tr><td>Max Track Width</td><td>1.713m</td></tr><tr><td>Lock to Lock Time</td><td>4.00s</td></tr><tr><td>Kerb to Kerb Turning Radius</td><td>5.100m</td></tr></table>	Overall Length	4.572m	Overall Width	1.769m	Overall Body Height	1.488m	Min Body Ground Clearance	0.249m	Max Track Width	1.713m	Lock to Lock Time	4.00s	Kerb to Kerb Turning Radius	5.100m	REV	DESCRIPTION	DATE	BY
			Overall Length	4.572m																
Overall Width	1.769m																			
Overall Body Height	1.488m																			
Min Body Ground Clearance	0.249m																			
Max Track Width	1.713m																			
Lock to Lock Time	4.00s																			
Kerb to Kerb Turning Radius	5.100m																			
A	-ALTERATIONS MADE TO PARKING BAY DIMENSIONS	22.10.15	BA																	
																				
		<p>Max Legal Length (UK) Articulated Vehicle (16.5m)</p> <table><tr><td>Overall Length</td><td>16.500m</td></tr><tr><td>Overall Width</td><td>2.550m</td></tr><tr><td>Overall Body Height</td><td>3.632m</td></tr><tr><td>Min Body Ground Clearance</td><td>0.396m</td></tr><tr><td>Max Track Width</td><td>2.500m</td></tr><tr><td>Lock to Lock Time</td><td>6.00s</td></tr><tr><td>Kerb to Kerb Turning Radius</td><td>6.670m</td></tr></table>				Overall Length	16.500m	Overall Width	2.550m	Overall Body Height	3.632m	Min Body Ground Clearance	0.396m	Max Track Width	2.500m	Lock to Lock Time	6.00s	Kerb to Kerb Turning Radius	6.670m	
Overall Length	16.500m																			
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Min Body Ground Clearance	0.396m																			
Max Track Width	2.500m																			
Lock to Lock Time	6.00s																			
Kerb to Kerb Turning Radius	6.670m																			
		Date:	01.10.2015	Drawn By:	BA															
		Scale:	AS SHOWN @ A2	Checked:	JA															
		Status:	PLANNING	Approved/ Unapproved:	-															
		Client Name:				TREVILLE PROPERTIES LTD														
		Project Title:				BUXTON ROAD, BRIDGEMONT														
		Drawing Title:				VISIBILITY SPLAY CHECK														
		Drawing No.				SCP/15260/F01	Rev. A													

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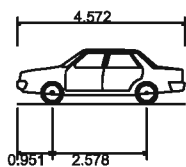
## **APPENDIX 3**





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#### NOTES



Skoda Octavia  
Overall Length  
Overall Width  
Overall Body Height  
Min Body Ground Clearance  
Max Track Width  
Lock to Lock Time  
Kerb to Kerb Turning Radius

4.572m  
1.769m  
1.488m  
0.249m  
1.713m  
4.00s  
5.100m

#### REVISIONS

REV	DESCRIPTION	DATE	BY
A	-LATEST LAYOUT UNDER LAID & SWEEP PATHS ANALYSIS UPDATED	02.11.15	BA
Date: 17.09.2015		Drawn By: BA	
Scale: AS SHOWN @ A2		Checked: JA	
Status: PLANNING		Approved/Unapproved: -	

**SCP**  
Transportation Planning : Infrastructure Design  
2 Mount Street, Manchester, M2 5WQ, Tel 0161 832 4400, Fax 0161 832 5111  
www.scptransport.co.uk, Email info@scptransport.co.uk

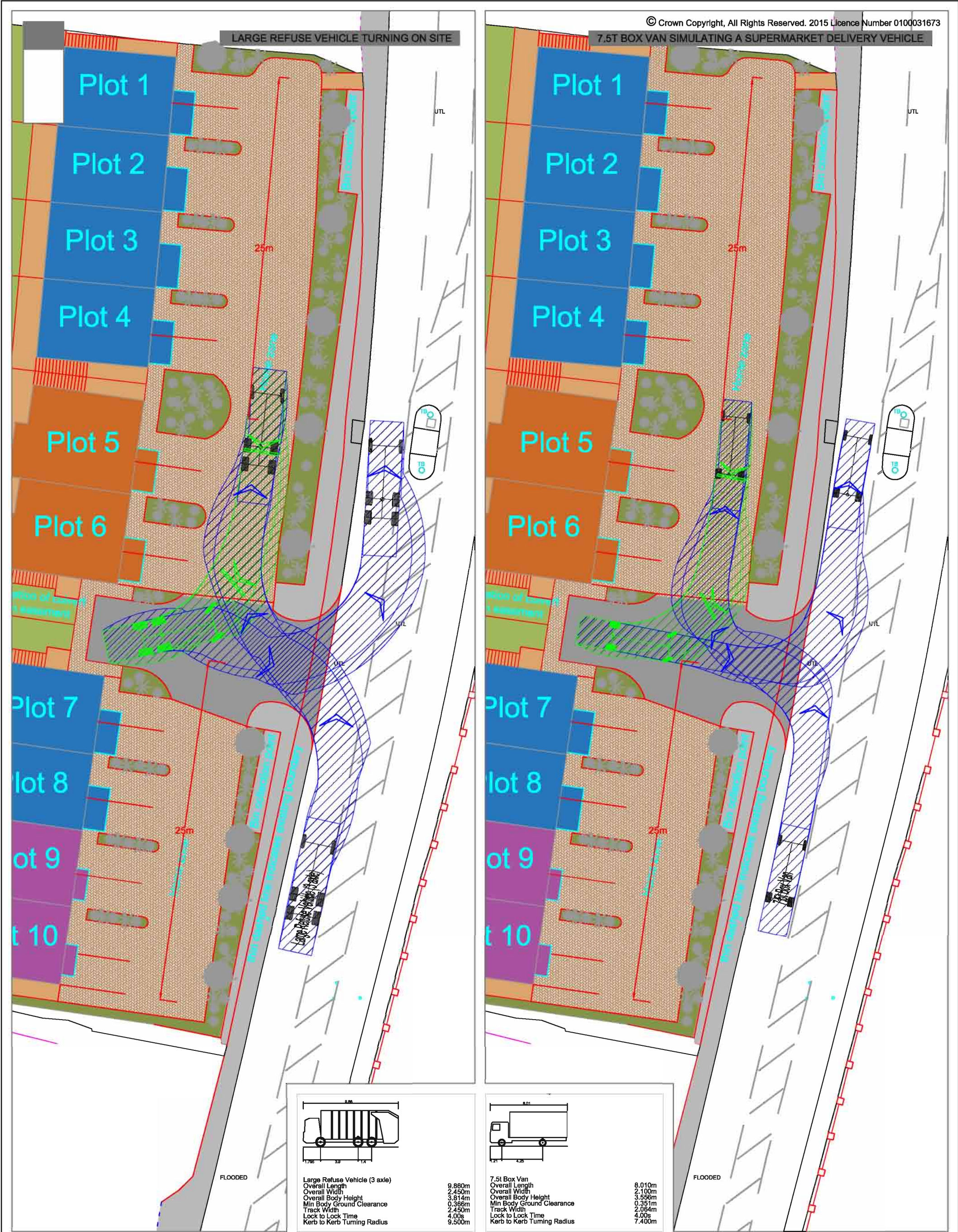
Client Name:	TREVILLE PROPERTIES LTD
Project Title:	BUXTON ROAD, BRIDGEMONT
Drawing Title:	SWEPT PATH ANALYSIS
Drawing No.	SCP/15260/ATR02
Rev.	A



**S|C|P**

## **APPENDIX 4**





<div><div>S C P</div><div>Transportation Planning : Infrastructure Design</div><div>2 Mount Street, Manchester, M2 5WQ, Tel 0161 832 4400, Fax 0161 832 5111, <a href="http://www.scptransport.co.uk">www.scptransport.co.uk</a>, Email <a href="mailto:info@scptransport.co.uk">info@scptransport.co.uk</a></div></div>	Project Title TREVILLE PROPERTIES LTD	Drawing Title SWEPT PATH ANALYSIS	Scale 1:250@ A3	By BA	Drawing No. SCP/15260/ATR01
			Date 03.11.2015	Checked JA	
			Approved/ Unapproved -	Status PLANNING	Revision A