

DRAFT

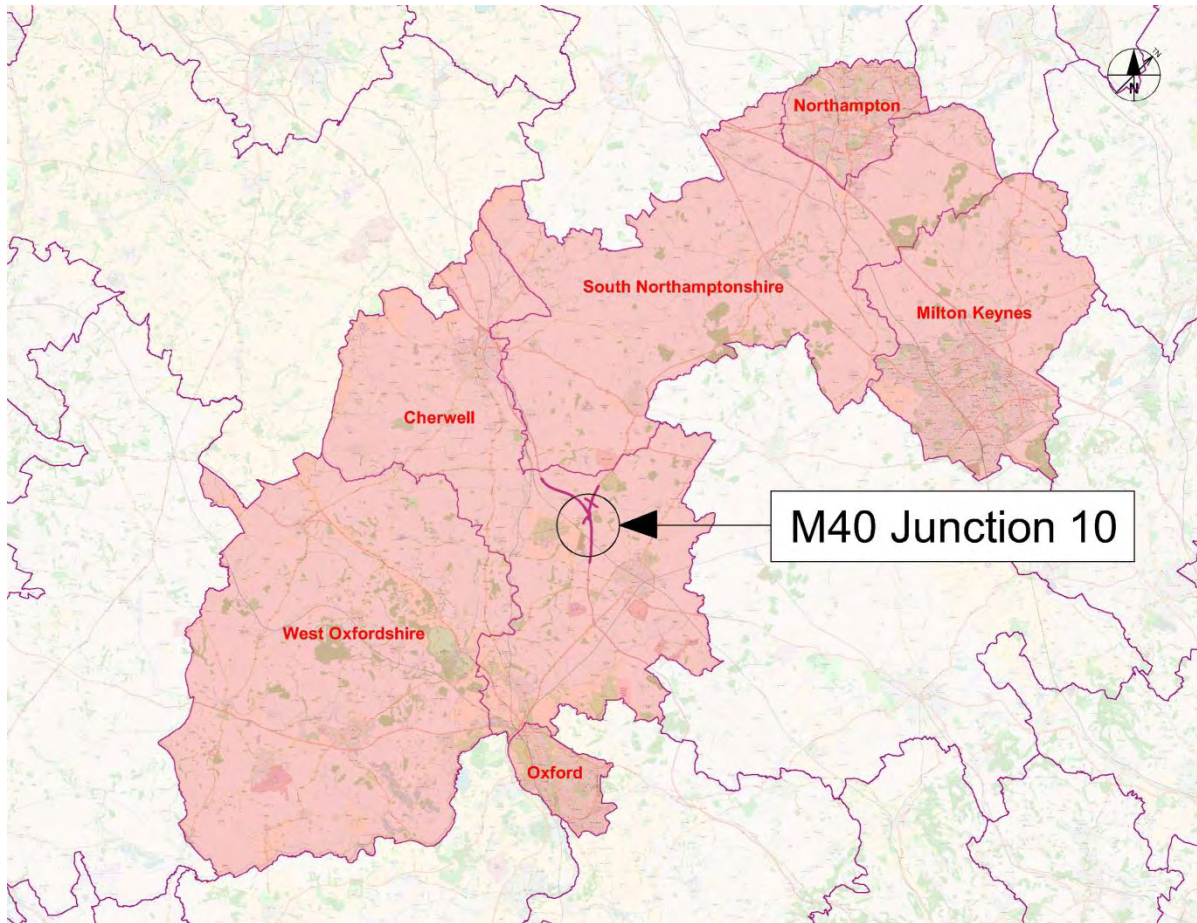


Figure 16. M40 Junction 10 – Relevant TEMPRO Zones

Appendix C – Complete queue results

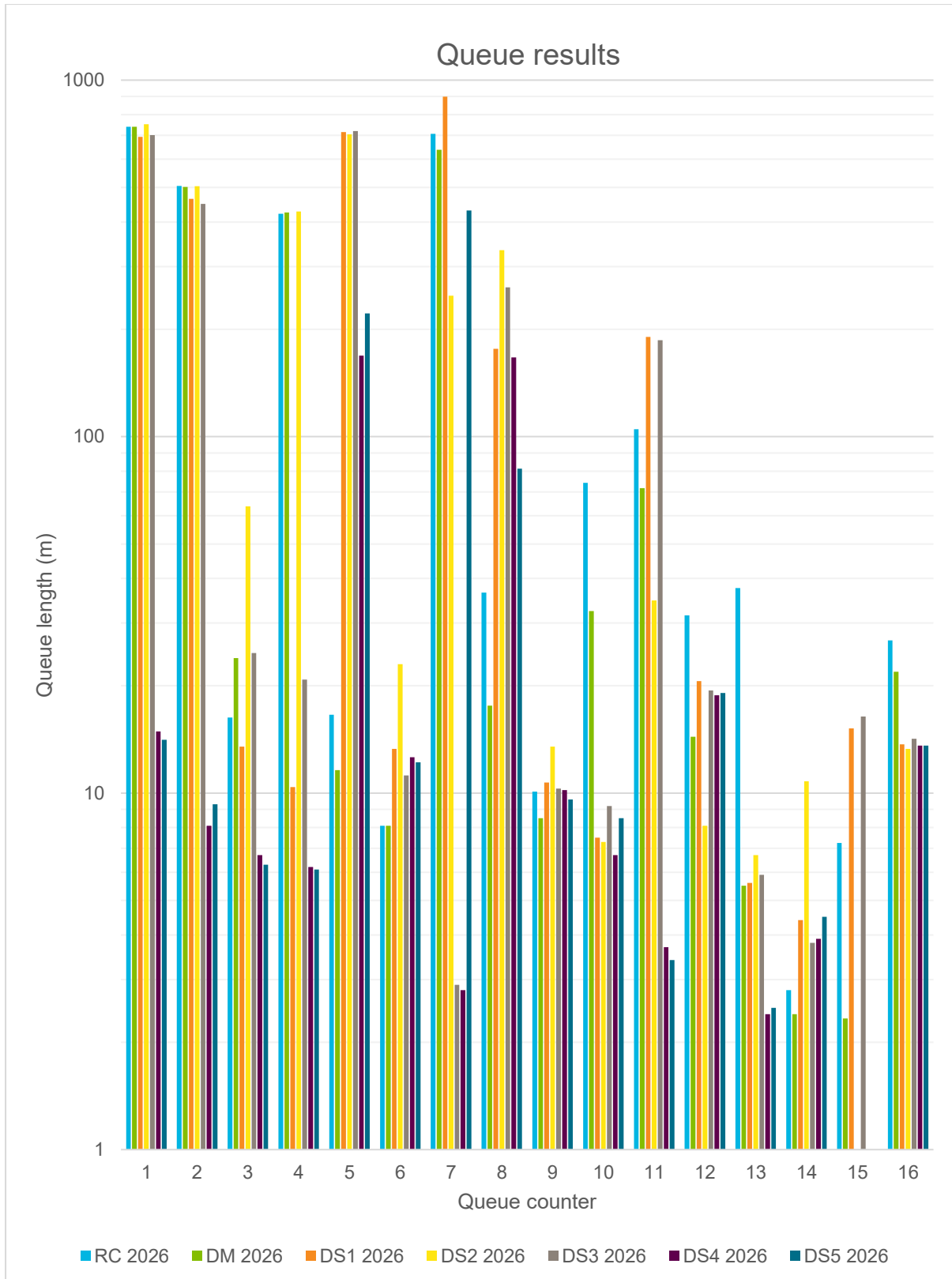


Figure 17. AM queue results.

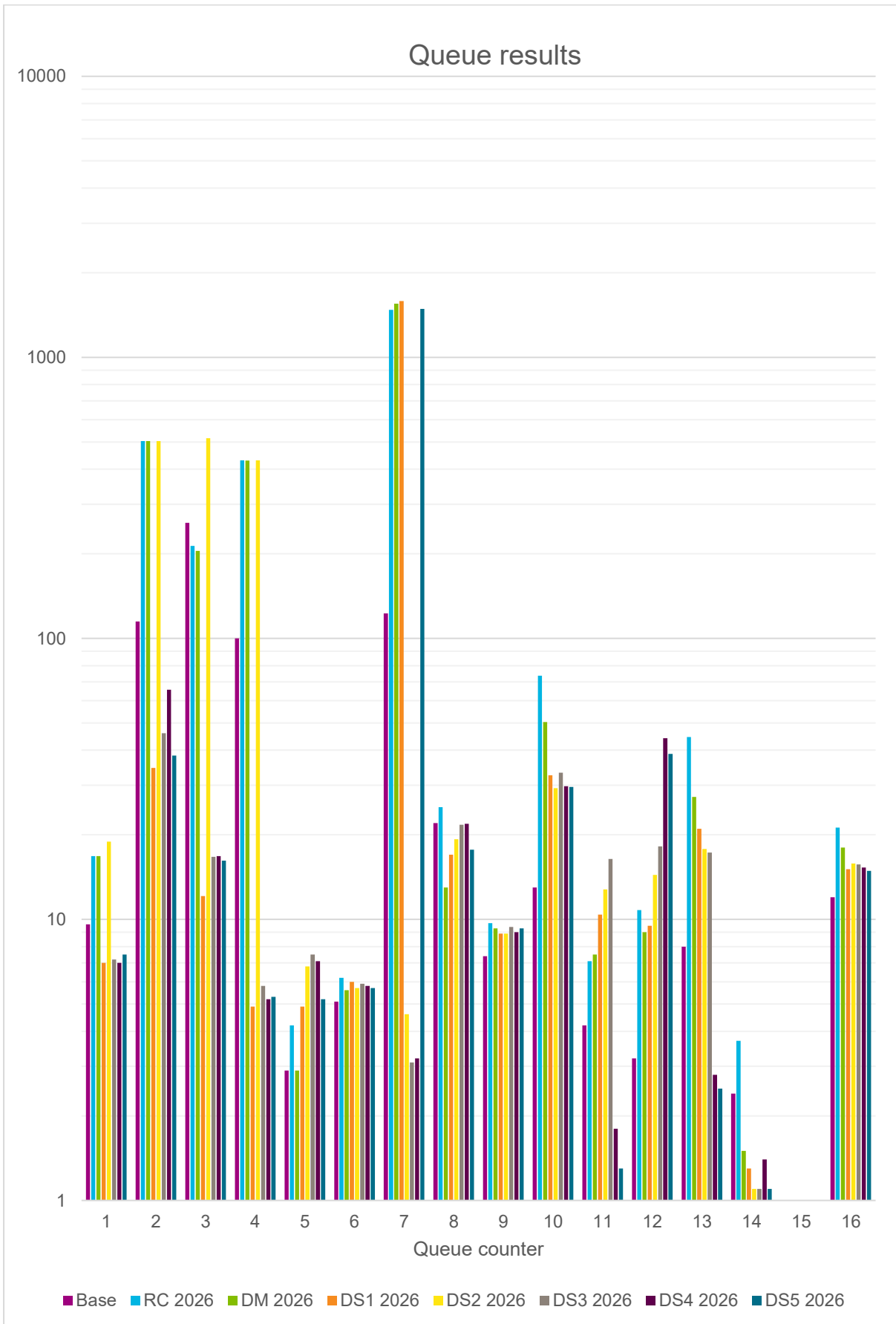


Figure 18. PM queue results.

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Appendix G AECOM Technical Note 112

M40J10 Preliminary Results 2031

The results included in this note are subject to change in the final report due to further reviews or model updates.

Journey times & Volumes

In Figure 1, one route was defined by section to assess the impacts in journey time in the junction 10 of the M40. The route was defined separately for southbound and northbound directions.



Figure 1. Locations of journey time route sections

AM Peak

Figure 2 and Figure 3 below show the journey time and traffic volumes preliminary results for northbound and southbound movements across the model for the AM peak. The detailed journey time results for 2031 can be found in Appendix A. Reference journey times from 2026 version of the model can be found in Appendix B.

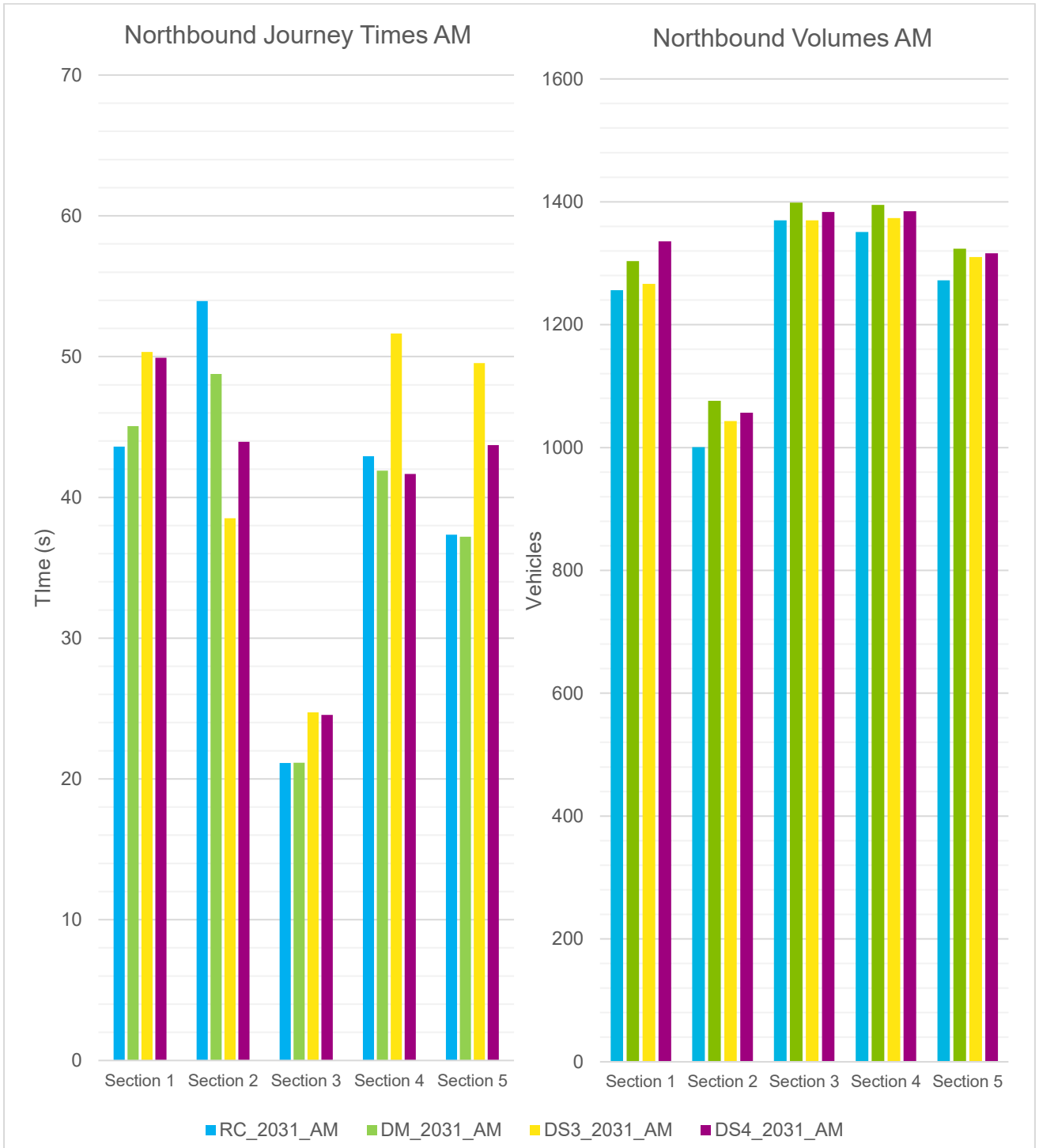


Figure 2. Northbound Journey times and Volumes by section - AM peak

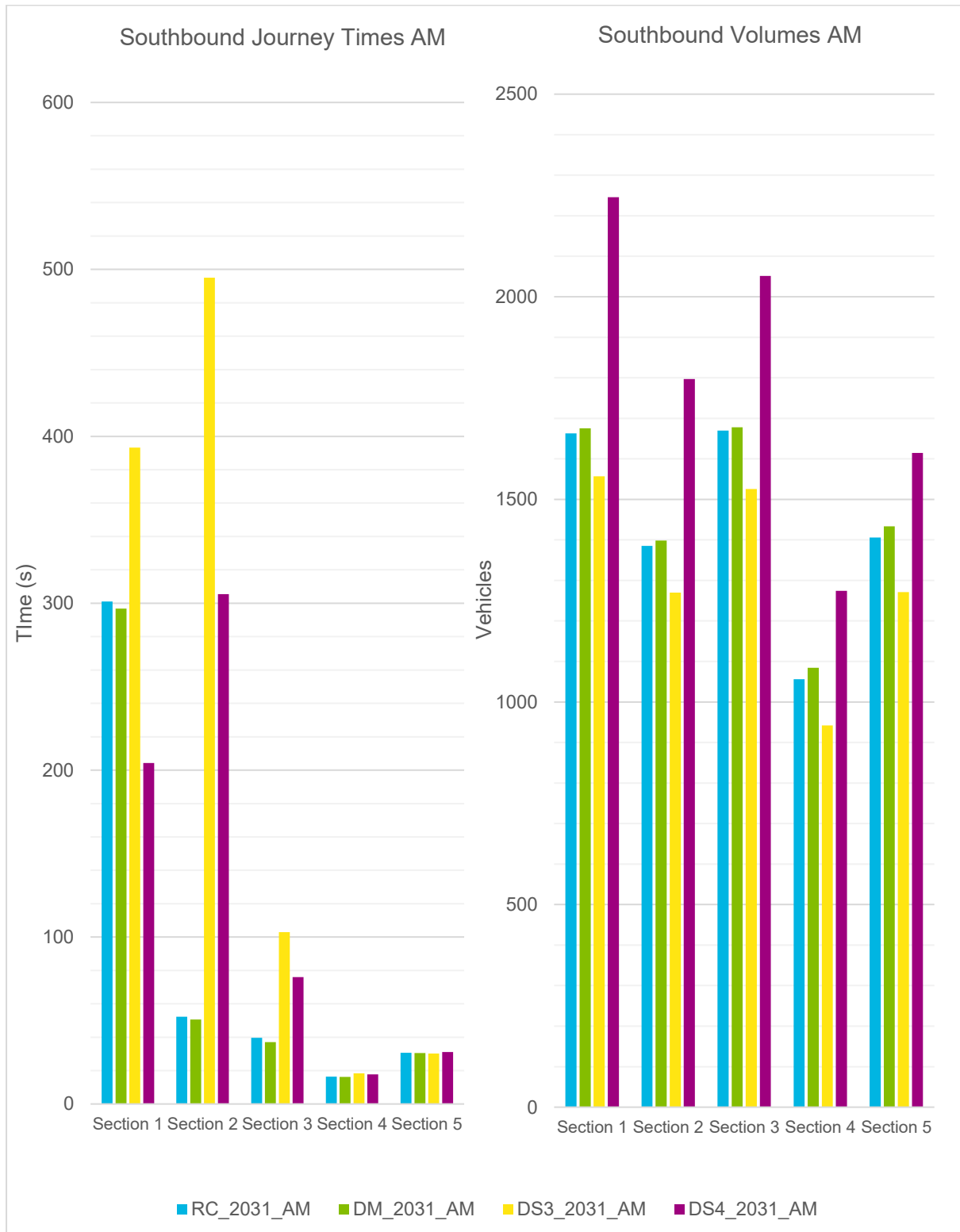


Figure 3. Southbound Journey times and Volumes by section - AM peak

PM Peak

Figure 4 and Figure 5 present the journey time and traffic volumes preliminary results northbound and southbound across the model for the PM peak along with the corresponding volumes of traffic.

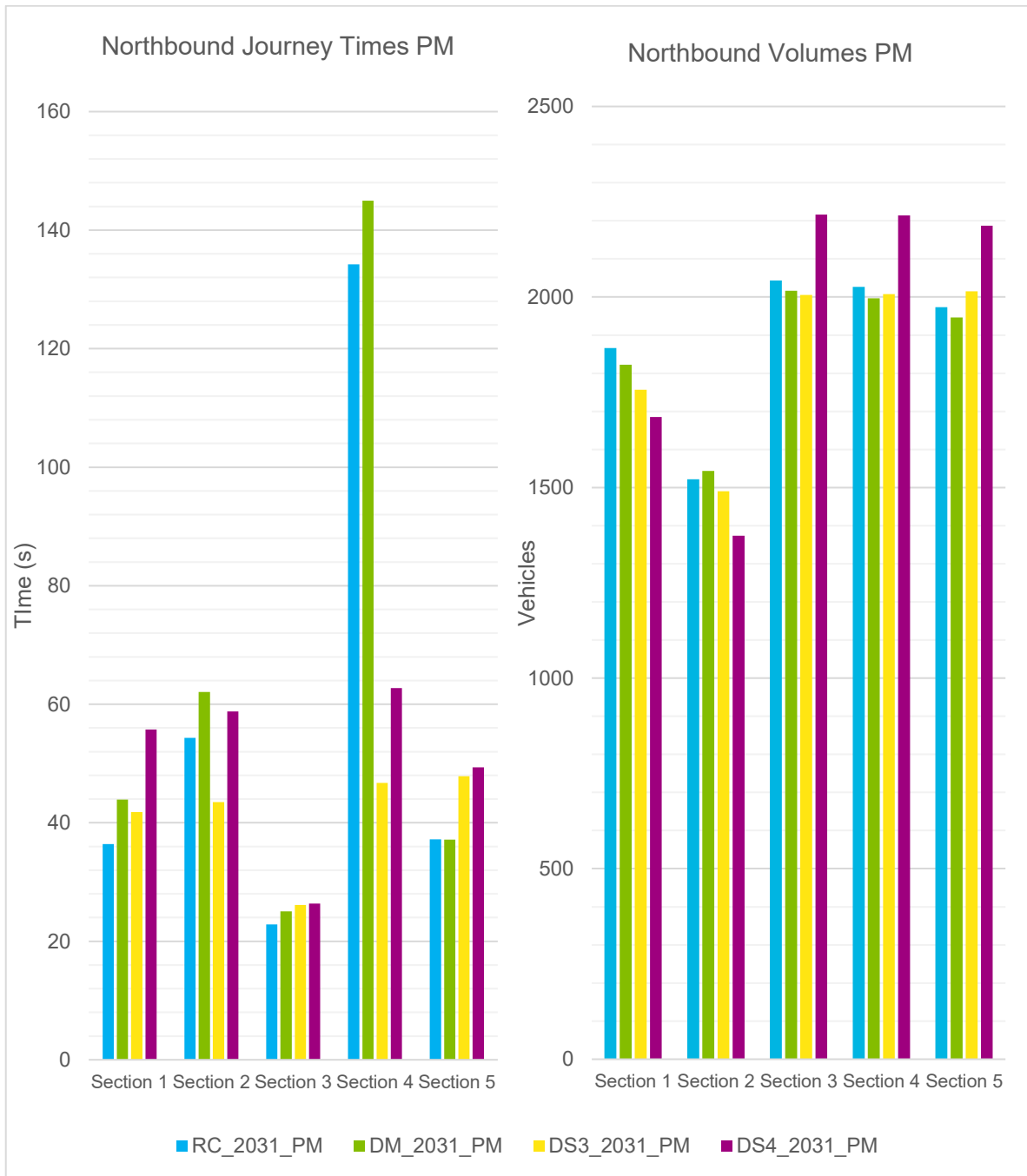


Figure 4. Northbound Journey times and Volumes by section - PM peak

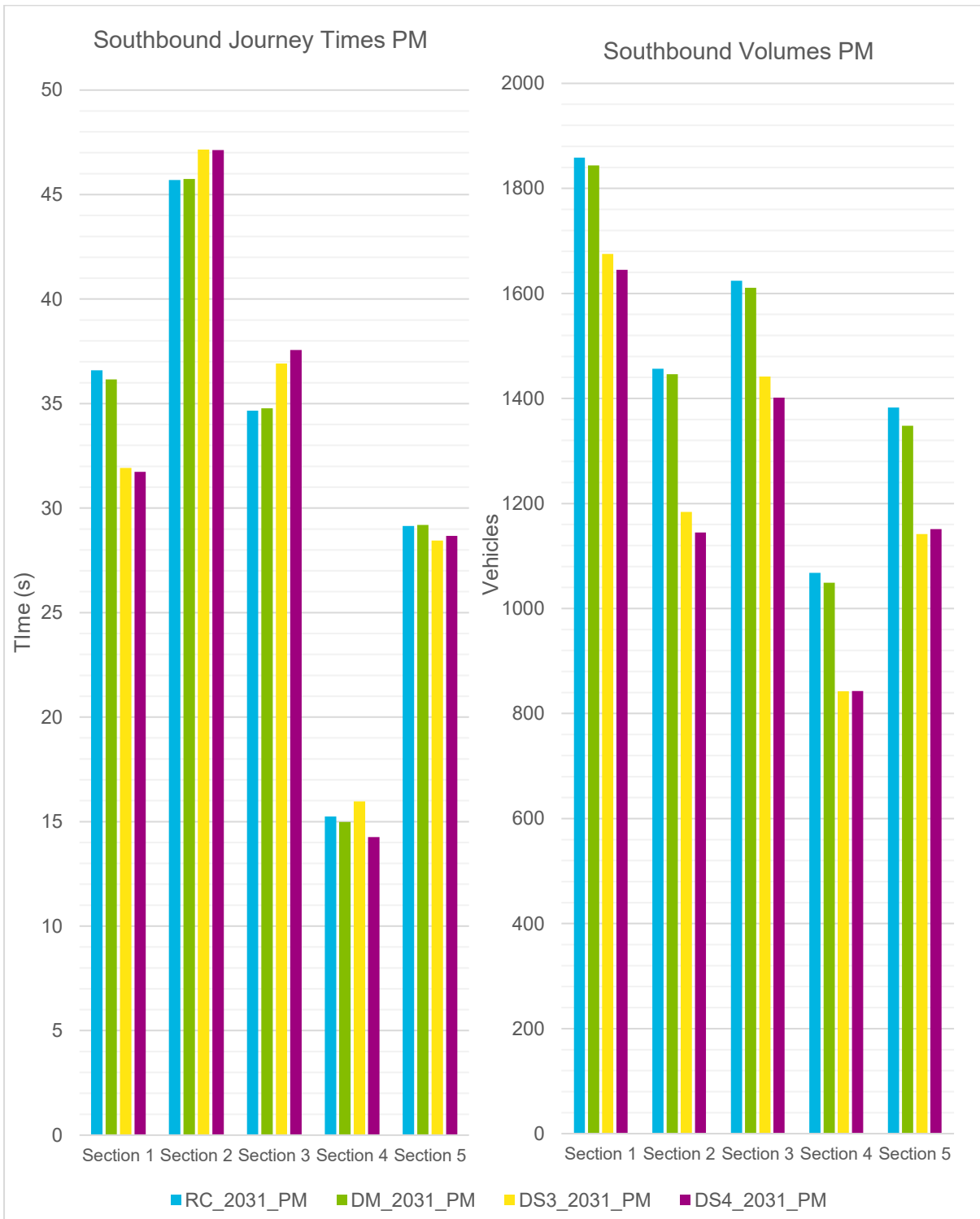


Figure 5. Southbound Journey times and Volumes by section - PM peak

Queues

AM Peak

Figure 7 shows the AM queue results for selected markers. The complete set of queue preliminary results can be found in Appendix A. Figure 6 shows the location of the queue counters in the models. These queue results represent the length of the queue from the queue counter to the back of the queue, spread across all lanes, i.e.: if the queue backs up onto different approaches or lanes, the queue counter will record the information of the longest maximum queue length.

It should be noted that the queue results represent the average queue across the peak hour.

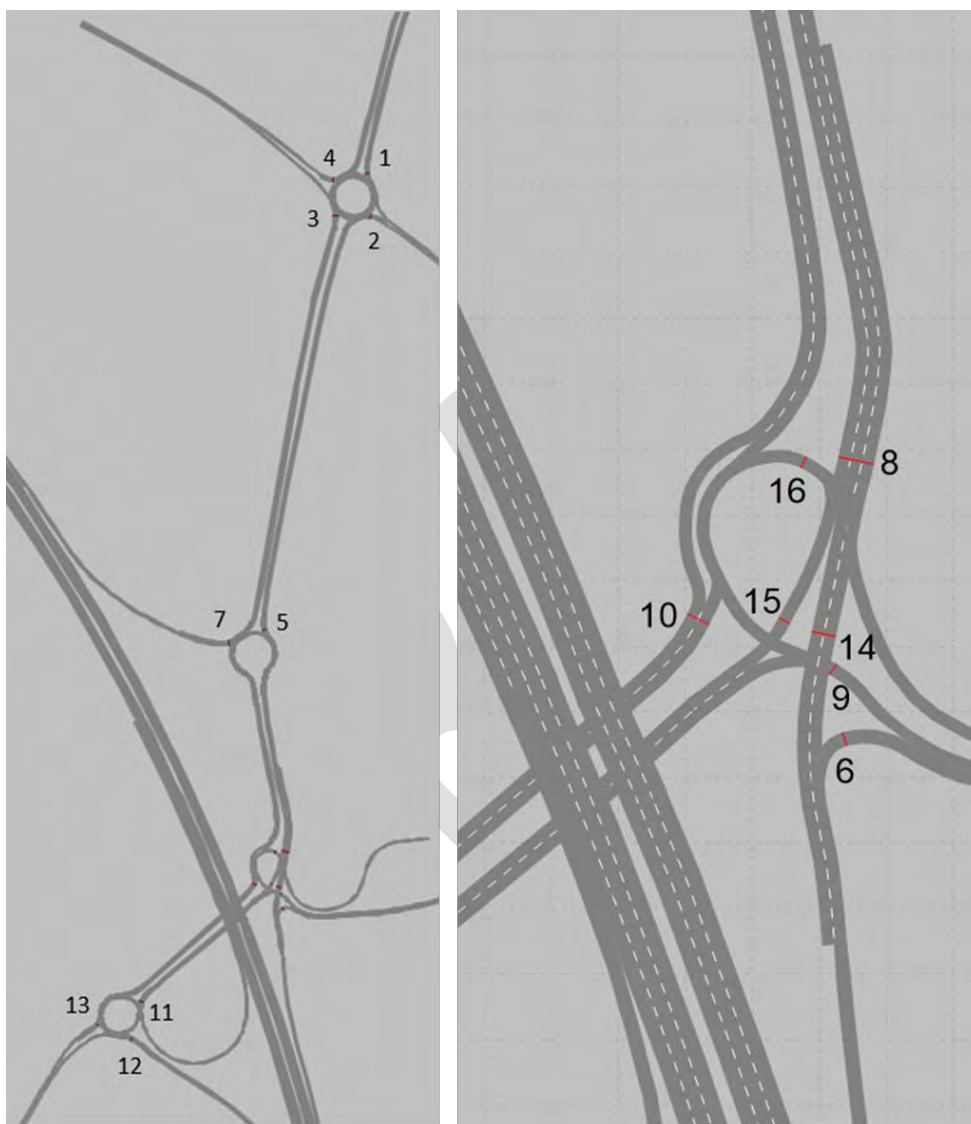


Figure 6. Location of queue counters in the model

Table 1 Queuing Storage per input link

Queue Counter No.	Approach	Modelled Link Length (m)
1	A43 North	Baynard's Green Roundabout
2	B4100 East	
4	B4100 West	
9	Services (Ahead)	Cherwell Junction
6	Services (Left)	
13	B430 West	Ardley Roundabout

The queuing extending beyond the link storage capacity stated in Table 1 is not included in the queue results as it is treated as latent demand in the model.

Table 2 Queuing Storage per internal link

Queue Counter No.	Approach	Modelled Link Length (m)
3	A43 South	Baynard's Green Roundabout
5	A43 North	Padbury Roundabout
7	M40	
8	A43 North	Cherwell Junction
10	A43 South	
11	A43 North	Ardley Roundabout
12	M40	

The queuing extending close to the internal link storage capacity stated in Table 2 may affect the operation upstream junction/link.

The detailed queue preliminary results for 2031 can be found in Appendix C.

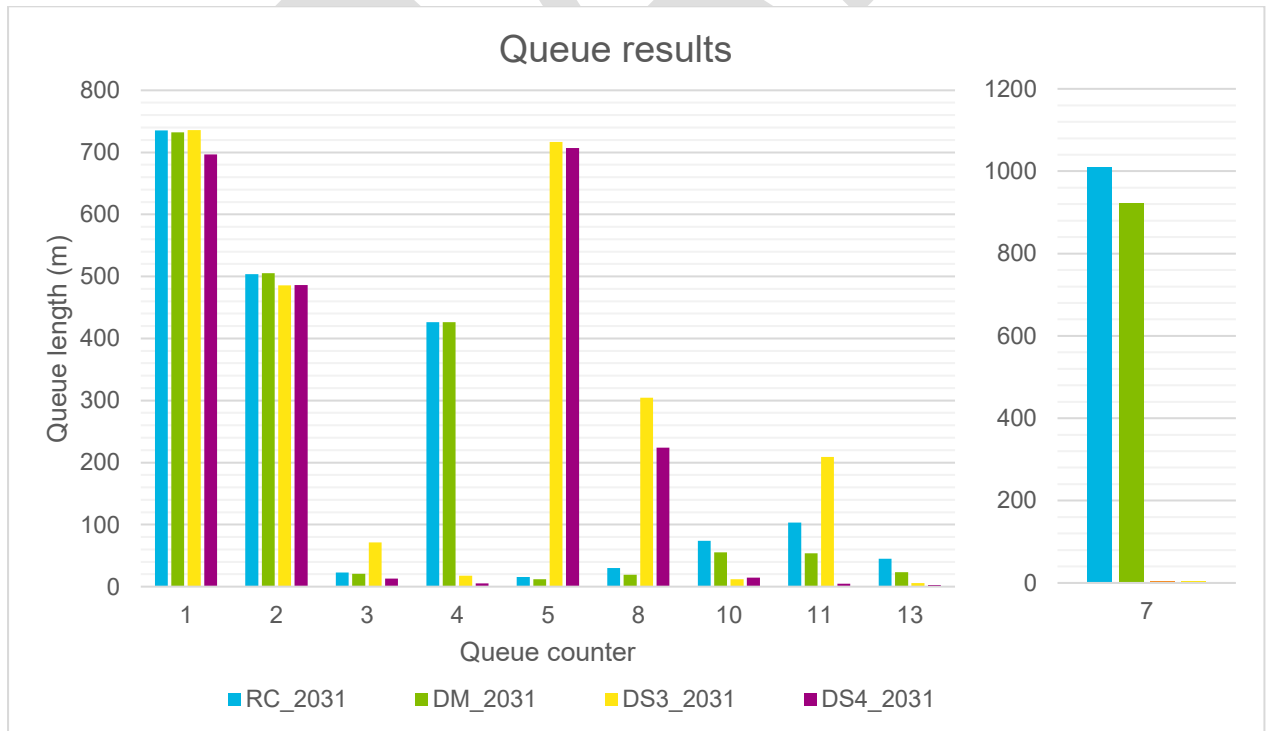


Figure 7. AM queue results for selected markers

PM Peak

Figure 8 below presents the queue preliminary results for the PM peak.

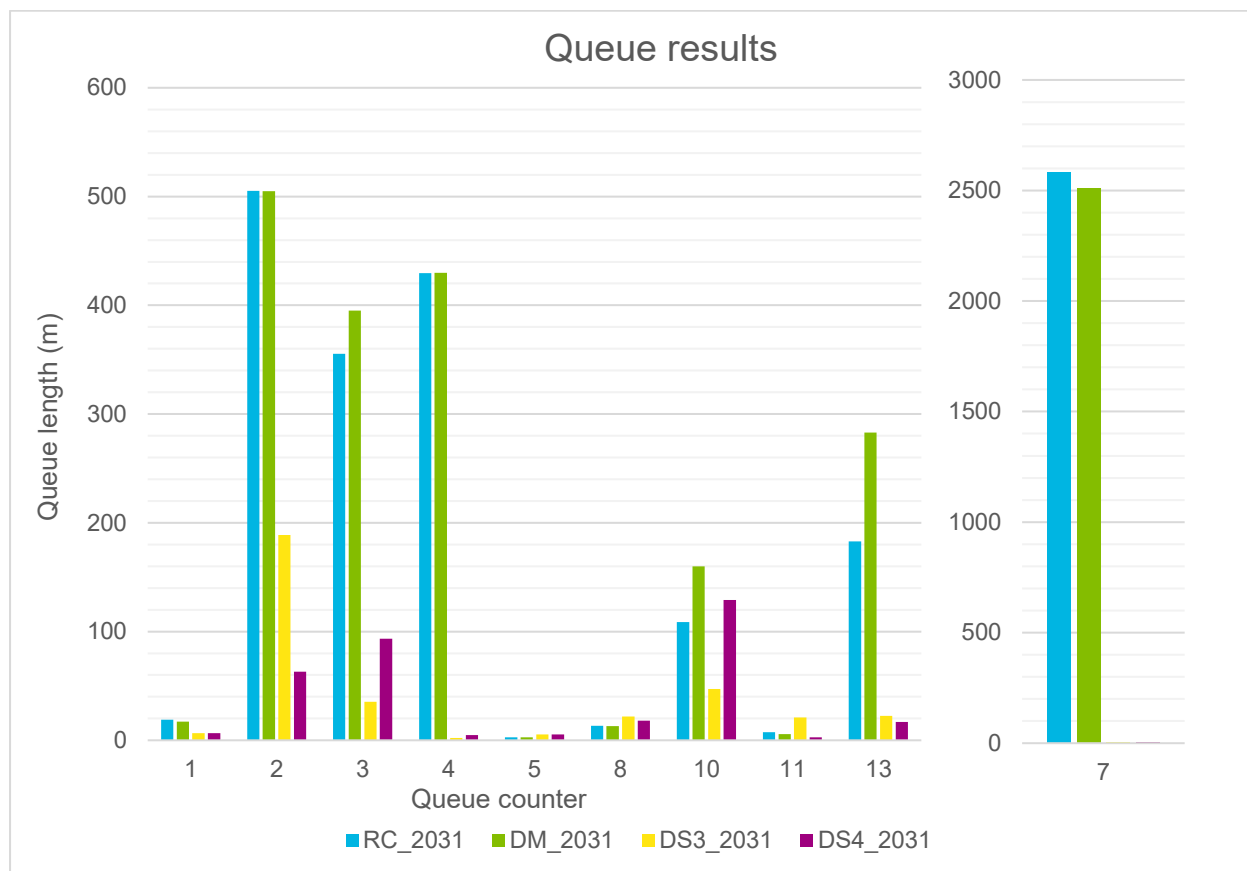


Figure 8. PM queue results for selected markers

Network Performance

Latent demand

Figure 9 shows the latent demand preliminary results for AM and PM.

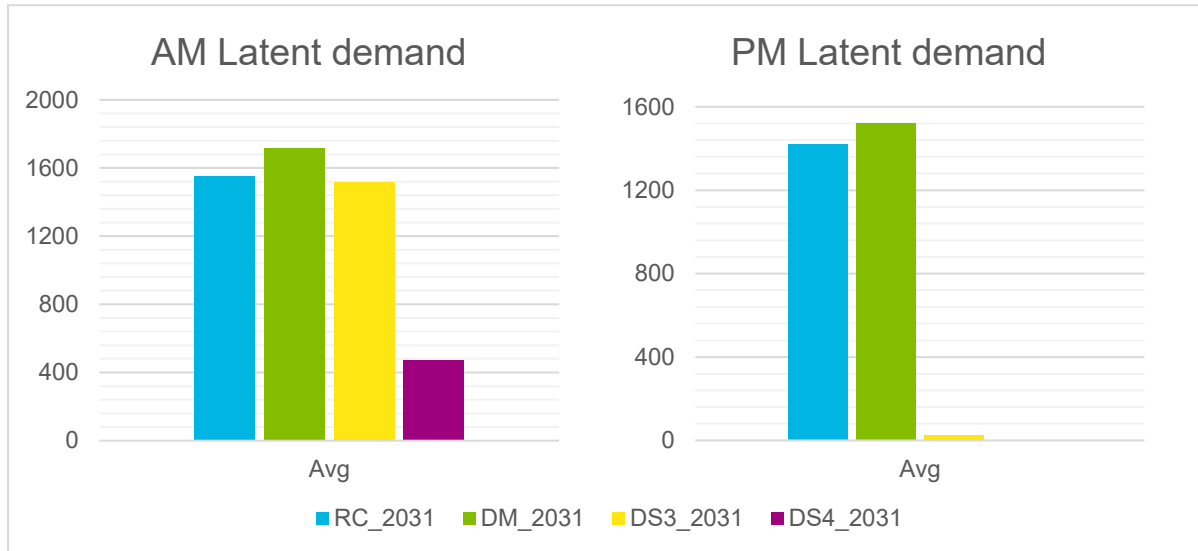


Figure 9. Latent demand results

Total Delay

Figure 10 shows the total recorded delay for all vehicles that have entered the network at the end of the evaluation period, plus the latent delay¹.

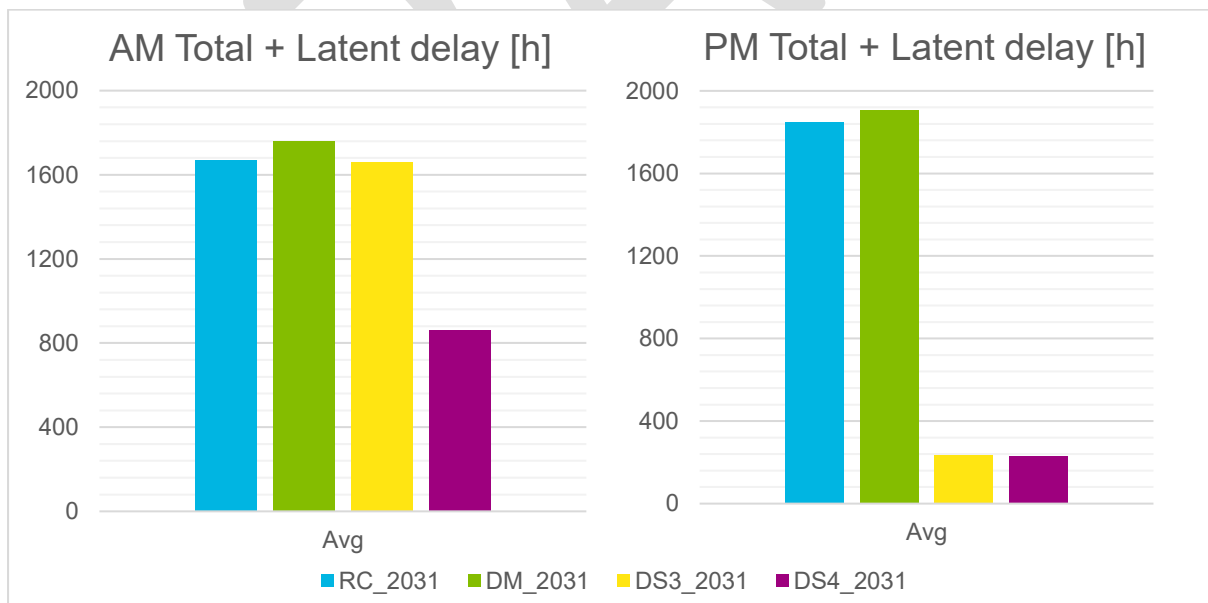


Figure 10. Addition of total recorded delay and latent delay¹

The detailed network performance preliminary results for 2031 can be found in Appendix C. Reference network performance results from 2026 version of the model can be found in Appendix D.

¹ Latent delay is defined as , defined as the overall time waited by vehicles between their specified start time and the actual time when they are loaded in the network, or the end of the evaluation period – Vissim 5.40 – User Manual.

Appendix A – 2031 Complete Journey Time & Volume Preliminary Results

Table 3 Journey Times & Volumes 2031 – AM

	RC_2031_AM		DM_2031_AM		DS3_2031_AM		DS4_2031_AM	
	Time (s)	Volume (vehs)	Time (s)	Volume (vehs)	Time (s)	Volume (vehs)	Time (s)	Volume (vehs)
Section 1 NB	43.6	1256	45.07	1303	50.33	1266	49.92	1336
Section 2 NB	53.95	1001	48.76	1076	38.52	1043	43.95	1057
Section 3 NB	21.13	1370	21.15	1399	24.73	1370	24.55	1383
Section 4 NB	42.93	1351	41.89	1395	51.64	1374	41.66	1385
Section 5 NB	37.35	1272	37.2	1324	49.53	1310	43.71	1316

	RC_2031_AM		DM_2031_AM		DS3_2031_AM		DS4_2031_AM	
	Time (s)	Volume (vehs)	Time (s)	Volume (vehs)	Time (s)	Volume (vehs)	Time (s)	Volume (vehs)
Section 1 SB	300.98	1663	296.83	1676	393.28	1557	204.21	2246
Section 2 SB	52.26	1385	50.56	1398	495.04	1270	305.39	1797
Section 3 SB	39.61	1670	37.07	1678	102.89	1525	76.05	2052
Section 4 SB	16.32	1056	16.26	1085	18.31	942	17.74	1274
Section 5 SB	30.63	1406	30.46	1433	30.27	1271	31.2	1614

Table 4 Journey Times & Volumes 2031 - PM

	RC_2031_PM		DM_2031_PM		DS3_2031_PM		DS4_2031_PM	
	Time (s)	Volume (vehs)	Time (s)	Volume (vehs)	Time (s)	Volume (vehs)	Time (s)	Volume (vehs)
Section 1 NB	36.38	1866	43.91	1823	41.81	1757	55.75	1686
Section 2 NB	54.34	1522	62.05	1543	43.48	1490	58.78	1374
Section 3 NB	22.84	2043	25.03	2016	26.14	2006	26.35	2216
Section 4 NB	134.25	2027	144.96	1997	46.72	2008	62.72	2214
Section 5 NB	37.18	1973	37.17	1947	47.83	2015	49.33	2187

	RC_2031_PM		DM_2031_PM		DS3_2031_PM		DS4_2031_PM	
	Time (s)	Volume (vehs)	Time (s)	Volume (vehs)	Time (s)	Volume (vehs)	Time (s)	Volume (vehs)
Section 1 SB	36.59	1859	36.16	1844	31.92	1675	31.74	1645
Section 2 SB	45.7	1457	45.75	1446	47.16	1184	47.13	1145
Section 3 SB	34.66	1624	34.77	1611	36.92	1442	37.56	1401
Section 4 SB	15.25	1068	14.98	1049	15.97	842	14.26	843
Section 5 SB	29.15	1383	29.19	1348	28.45	1142	28.67	1151

Appendix B – 2026 Complete Journey Time & Volume Results

Table 5 Journey Times & Volumes 2026 – AM

	RC_2026_AM		DM_2026_AM		DS3_2026_AM		DS4_2026_AM	
	Time (s)	Volume (vehs)	Time (s)	Volume (vehs)	Time (s)	Volume (vehs)	Time (s)	Volume (vehs)
Section 1 NB	48.97	1179	38.95	1165	42.27	1165	41.64	1216
Section 2 NB	57.28	936	44.31	967	37.31	962	41.77	964
Section 3 NB	21.05	1292	21.06	1311	24.17	1304	24	1307
Section 4 NB	40.98	1292	43.57	1309	48.34	1312	38.37	1306
Section 5 NB	37.22	1225	37.27	1238	47.89	1252	43.22	1247

	RC_2026_AM		DM_2026_AM		DS3_2026_AM		DS4_2026_AM	
	Time (s)	Volume (vehs)	Time (s)	Volume (vehs)	Time (s)	Volume (vehs)	Time (s)	Volume (vehs)
Section 1 SB	315.17	1609	318.22	1609	286.2	1786	34.9	2139
Section 2 SB	52.66	1352	50.75	1327	377.68	1469	98.93	1762
Section 3 SB	40.58	1669	36.44	1623	86.66	1831	66.66	2140
Section 4 SB	16.22	1045	15.73	1027	19.64	1168	18.56	1344
Section 5 SB	30.61	1368	30.32	1353	31.01	1495	31.46	1666

Table 6 Journey Times & Volumes 2026 – PM

	RC_2026_PM		DM_2026_PM		DS3_2026_PM		DS4_2026_PM	
	Time (s)	Volume (vehs)	Time (s)	Volume (vehs)	Time (s)	Volume (vehs)	Time (s)	Volume (vehs)
Section 1 NB	33.59	1714	34.47	1656	37.87	1652	48.63	1700
Section 2 NB	44.91	1396	44.62	1398	41.19	1395	45.26	1392
Section 3 NB	21.08	1907	21.25	1929	24.77	1930	24.61	1929
Section 4 NB	79.96	1911	97.26	1936	41.15	1930	41.88	1925
Section 5 NB	37.18	1877	37.19	1899	47.12	1915	46.79	1914

	RC_2026_PM		DM_2026_PM		DS3_2026_PM		DS4_2026_PM	
	Time (s)	Volume (vehs)	Time (s)	Volume (vehs)	Time (s)	Volume (vehs)	Time (s)	Volume (vehs)
Section 1 SB	35.97	1774	36.17	1766	32.24	1765	31.92	1766
Section 2 SB	46.06	1402	45.85	1402	48.06	1401	48.32	1402
Section 3 SB	34.65	1587	34.66	1582	37.6	1702	39.36	1698
Section 4 SB	14.85	1047	14.91	1047	16.6	1081	15.1	1084
Section 5 SB	29.25	1344	29.14	1344	29.24	1375	29.33	1378

Appendix C – 2031 Complete Queue Preliminary Results

Table 7 Queue Preliminary Results AM 2031 – AM

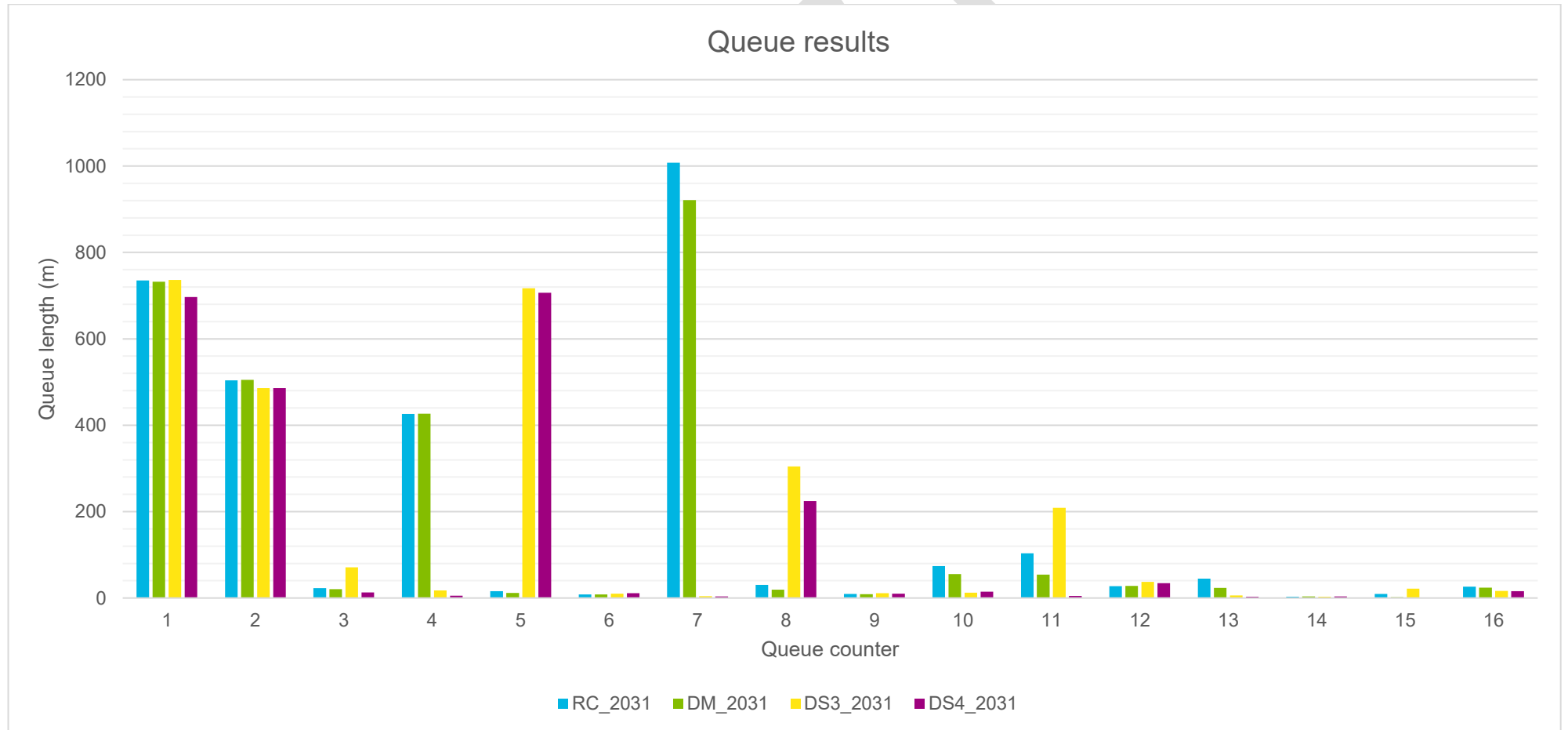
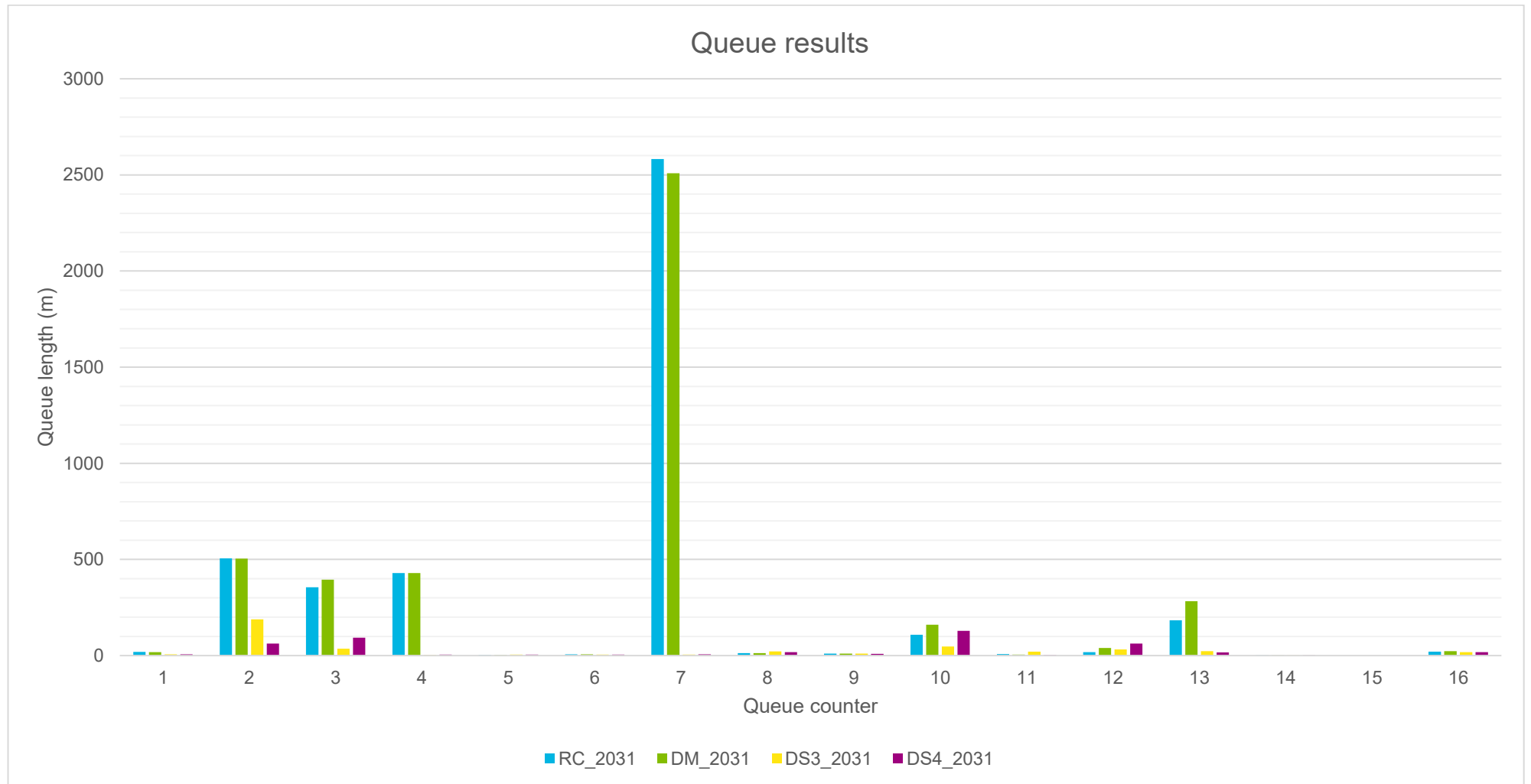


Table 8 Queue Preliminary Results PM 2031 – AM



Appendix D – 2031 Complete Network Performance

Table 9 Network Performance Preliminary Results 2031 – AM

Latent demand											
Model	1	2	3	4	5	6	7	8	9	10	Avg
RC_2031	1537	1558	1513	1558	1556	1551	1589	1534	1569	1564	1553
DM_2031	1669	1747	1743	1720	1707	1742	1690	1718	1714	1698	1715
DS3_2031	1549	1484	1531	1688	NA	1489	1619	1254	1517	1497	1514
DS4_2031	486	479	572	586	489	379	343	502	413	468	472

Latent delay time [h]											
Model	1	2	3	4	5	6	7	8	9	10	Avg
RC_2031	1129	1179	1127	1190	1177	1175	1186	1143	1176	1202	1168
DM_2031	1257	1304	1307	1299	1281	1301	1281	1302	1278	1279	1289
DS3_2031	1001	1036	1073	1138	NA	1032	1126	837	973	960	1019
DS4_2031	308	360	435	422	321	298	232	347	306	361	339

AM Total + Latent delay [h]											
Model	1	2	3	4	5	6	7	8	9	10	Avg
RC_2031	1611	1676	1632	1738	1689	1678	1694	1635	1644	1709	1671
DM_2031	1753	1758	1801	1759	1759	1776	1721	1763	1747	1770	1761
DS3_2031	1650	1677	1736	1774	NA	1671	1761	1463	1619	1612	1662
DS4_2031	832	886	961	943	842	803	752	876	812	885	859

DRAFT**Table 10 Network Performance Preliminary Results 2031 – PM**

Latent demand											
Model	1	2	3	4	5	6	7	8	9	10	Avg
RC_2031	1394	1501	1414	1428	1510	1366	1350	1366	1454	1441	1422
DM_2031	1620	1544	1499	1486	1450	1453	1472	1582	1600	1497	1520
DS3_2031	26	20	58	14	6	31	17	21	0	37	26
DS4_2031	0	5	0	0	1	0	1	0	0	4	3

Latent delay time [h]											
Model	1	2	3	4	5	6	7	8	9	10	Avg
RC_2031	892	935	921	950	933	870	890	885	935	940	915
DM_2031	987	995	962	991	939	917	961	994	1004	977	973
DS3_2031	8	2	21	2	2	9	1	1	1	12	6
DS4_2031	0	0	0	0	1	1	0	0	0	0	0

PM Total + Latent delay [h]											
Model	1	2	3	4	5	6	7	8	9	10	Avg
RC_2031	1918	1979	1706	1795	1673	1939	1876	1855	1872	1886	1850
DM_2031	2072	1940	1816	1886	1961	1938	1921	1923	1804	1820	1908
DS3_2031	263	221	258	226	233	241	221	221	201	241	233
DS4_2031	205	221	244	246	257	227	232	235	207	231	230

Appendix E – 2026 Complete Network Performance Results

Table 11 Network Performance Results 2026 – AM

Latent demand											
Model	1	2	3	4	5	6	7	8	9	10	Avg
AM_ReVal	0	1	13	6	42	16	51	0	0	19	21
RC_2026	1104	1008	1086	1054	1091	1046	1129	1044	1060	1070	1069
DM_2026	1384	1410	1423	1415	1427	1351	1402	1384	1422	1381	1400
DS1_2026	272	339	358	135	308	398	327	149	326	355	297
DS2_2026	2431	2267	2545	2508	2337	2313	2392	2339	2424	2424	2398
DS3_2026	217	408	429	528	326	620	440	489	529	464	445
DS4_2026	0	0	0	0	1	0	0	0	0	0	1
DS5_2026	0	0	0	0	1	0	0	0	0	0	1

Latent delay time [h]											
Model	1	2	3	4	5	6	7	8	9	10	Avg
AM_ReVal	3	2	13	17	27	14	23	8	11	25	14
RC_2026	792	739	807	788	809	772	834	764	787	812	790
DM_2026	1020	1040	1045	1063	1055	1015	1030	1031	1060	1048	1041
DS1_2026	163	240	195	102	202	257	254	195	244	244	210
DS2_2026	1729	1472	1764	1659	1577	1521	1608	1565	1615	1606	1612
DS3_2026	157	333	269	323	214	378	268	365	354	329	299
DS4_2026	0	0	0	0	0	0	0	0	0	0	0
DS5_2026	0	0	0	0	0	0	0	0	0	0	0

AM Total + Latent delay [h]											
Model	1	2	3	4	5	6	7	8	9	10	Avg
AM_ReVal	196	204	236	233	255	218	230	223	224	242	226
RC_2026	1212	1224	1222	1245	1275	1220	1265	1229	1195	1269	1236
DM_2026	1418	1459	1452	1491	1478	1447	1453	1436	1470	1453	1456
DS1_2026	790	914	837	691	869	910	870	864	873	877	850
DS2_2026	2518	2167	2424	2342	2212	2186	2278	2218	2267	2284	2290
DS3_2026	687	909	834	899	776	990	837	955	929	897	871
DS4_2026	189	192	149	193	164	196	208	160	155	203	181
DS5_2026	219	207	249	216	217	240	222	207	203	247	223

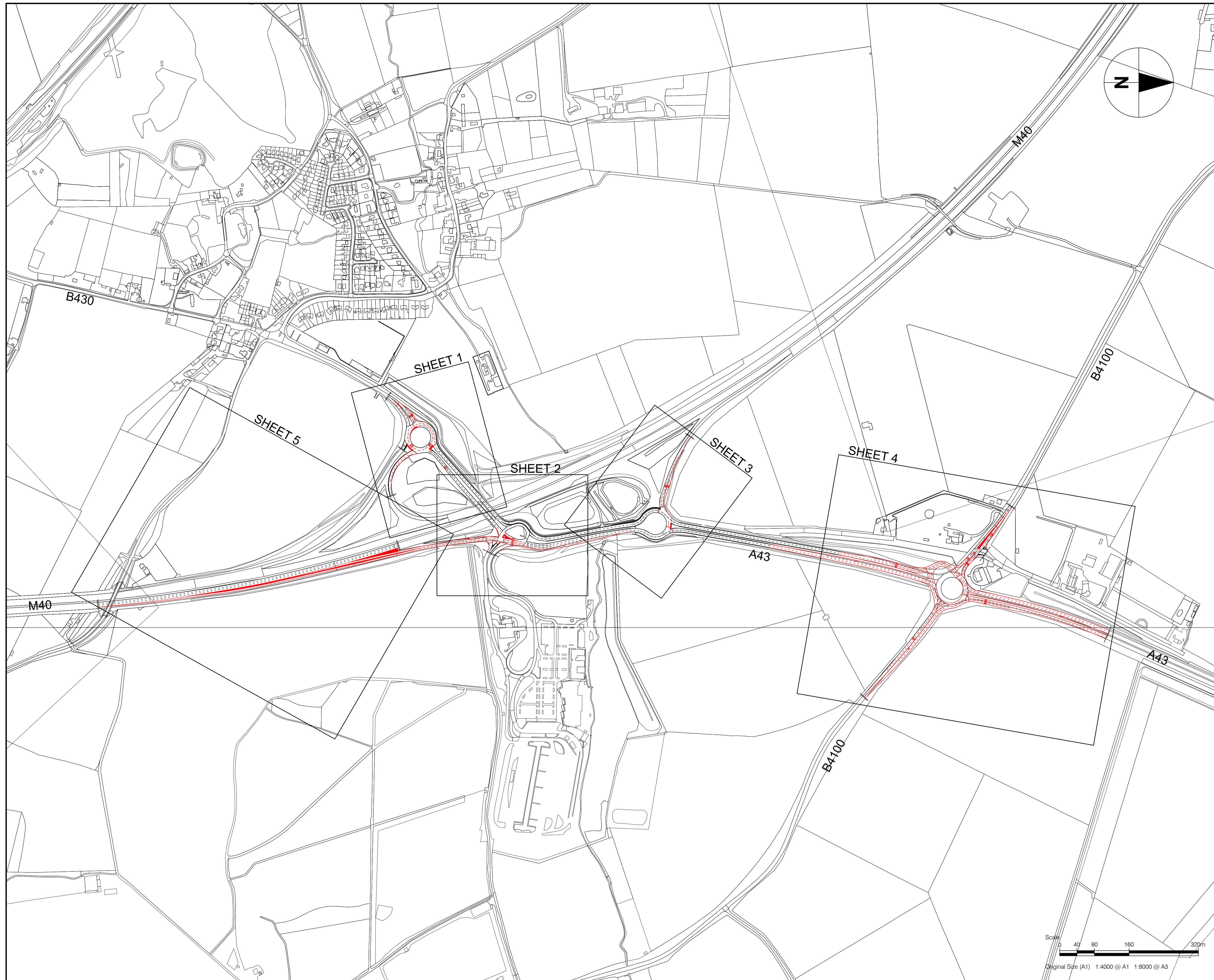
DRAFT**Table 12 Network Performance Results 2026 – PM**

Latent demand											
Model	1	2	3	4	5	6	7	8	9	10	Avg
PM_ReVal	0	1	13	6	42	16	51	0	0	19	21
RC_2026	1111	1100	1127	1089	1080	1125	1140	1132	1131	1114	1115
DM_2026	1126	1134	1124	1187	1116	1152	1140	1183	1123	1183	1147
DS1_2026	0	2	0	0	0	0	0	0	0	0	2
DS2_2026	1105	1128	1118	1160	1129	1142	1129	1123	1136	1167	1134
DS3_2026	0	2	0	0	0	0	0	0	0	0	2
DS4_2026	0	2	0	0	0	0	0	0	0	0	2
DS5_2026	0	2	0	0	0	0	0	0	0	0	2

Latent delay time [h]											
Model	1	2	3	4	5	6	7	8	9	10	Avg
PM_ReVal	3	2	13	17	27	14	23	8	11	25	14
RC_2026	711	690	715	689	696	701	724	738	715	715	709
DM_2026	727	729	706	751	707	735	713	752	726	758	730
DS1_2026	0	0	0	0	0	0	0	0	0	0	0
DS2_2026	700	712	713	725	715	715	714	727	741	730	719
DS3_2026	0	0	0	0	0	0	0	0	0	0	0
DS4_2026	0	0	1	0	0	0	0	0	0	0	0
DS5_2026	0	0	0	0	0	0	0	0	0	0	0

PM Total + Latent delay [h]											
Model	1	2	3	4	5	6	7	8	9	10	Avg
PM_ReVal	196	204	236	233	255	218	230	223	224	242	226
RC_2026	1206	1102	1217	1204	1231	1229	1260	1280	1272	1167	1217
DM_2026	1276	1272	1268	1254	1182	1265	1256	1258	1268	1259	1256
DS1_2026	458	395	384	422	397	429	394	406	452	458	419
DS2_2026	1034	1045	1077	1052	1052	1043	1013	1065	1057	1007	1045
DS3_2026	165	160	169	163	169	162	166	165	164	162	164
DS4_2026	172	163	177	168	187	169	172	167	167	186	173
DS5_2026	458	399	419	409	364	414	483	426	451	408	423

Appendix H AECOM Drawings



PROJECT

**M40 JUNCTION 10
 OPTION DEVELOPMENT
 & TESTING**

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KEY

— PROPOSED SCHEME

IN DESIGN
 DEVELOPMENT

ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	JAN 2018	OPTION DEVELOP. & TESTING

PROJECT NUMBER

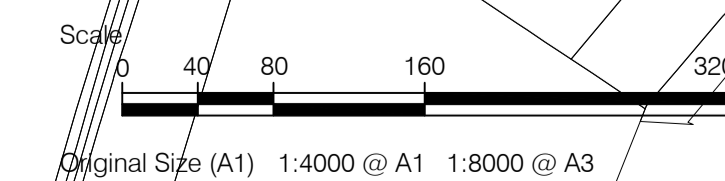
60540307

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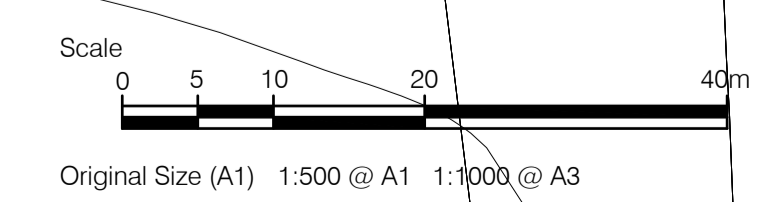
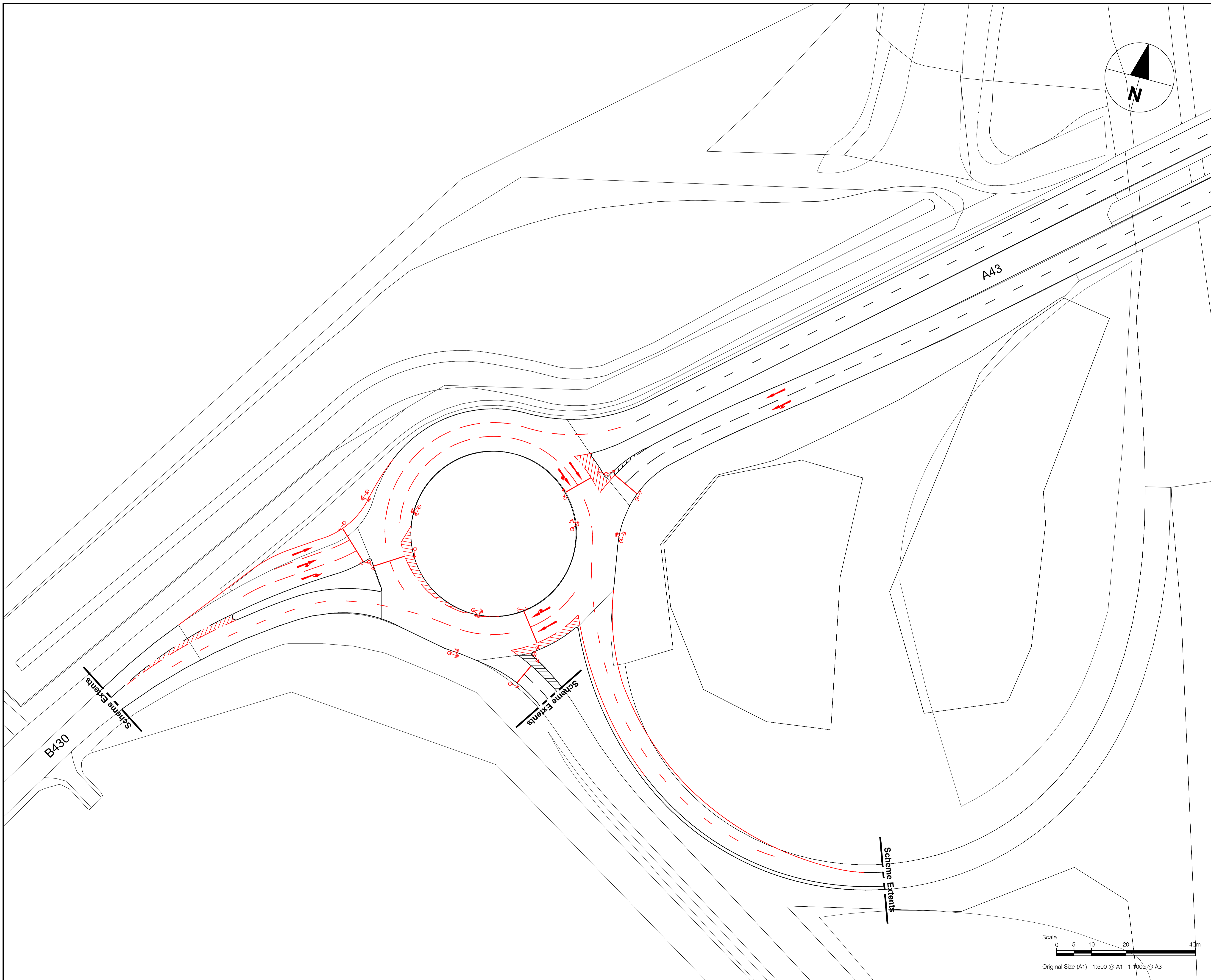
M40 JUNCTION 10
 OPTION DEVELOPMENT & TESTING
 GENERAL SCHEME OVERVIEW

SHEET NUMBER

60540307-SHT-1-C-0001



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PROJECT
M40 JUNCTION 10
OPTION DEVELOPMENT
& TESTING



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- KEY**
- PROPOSED SCHEME
 - PROPOSED SIGNAL HEAD (PRIMARY)
 - PROPOSED SIGNAL HEAD (SECONDARY)

IN DESIGN DEVELOPMENT

ISSUE/REVISION

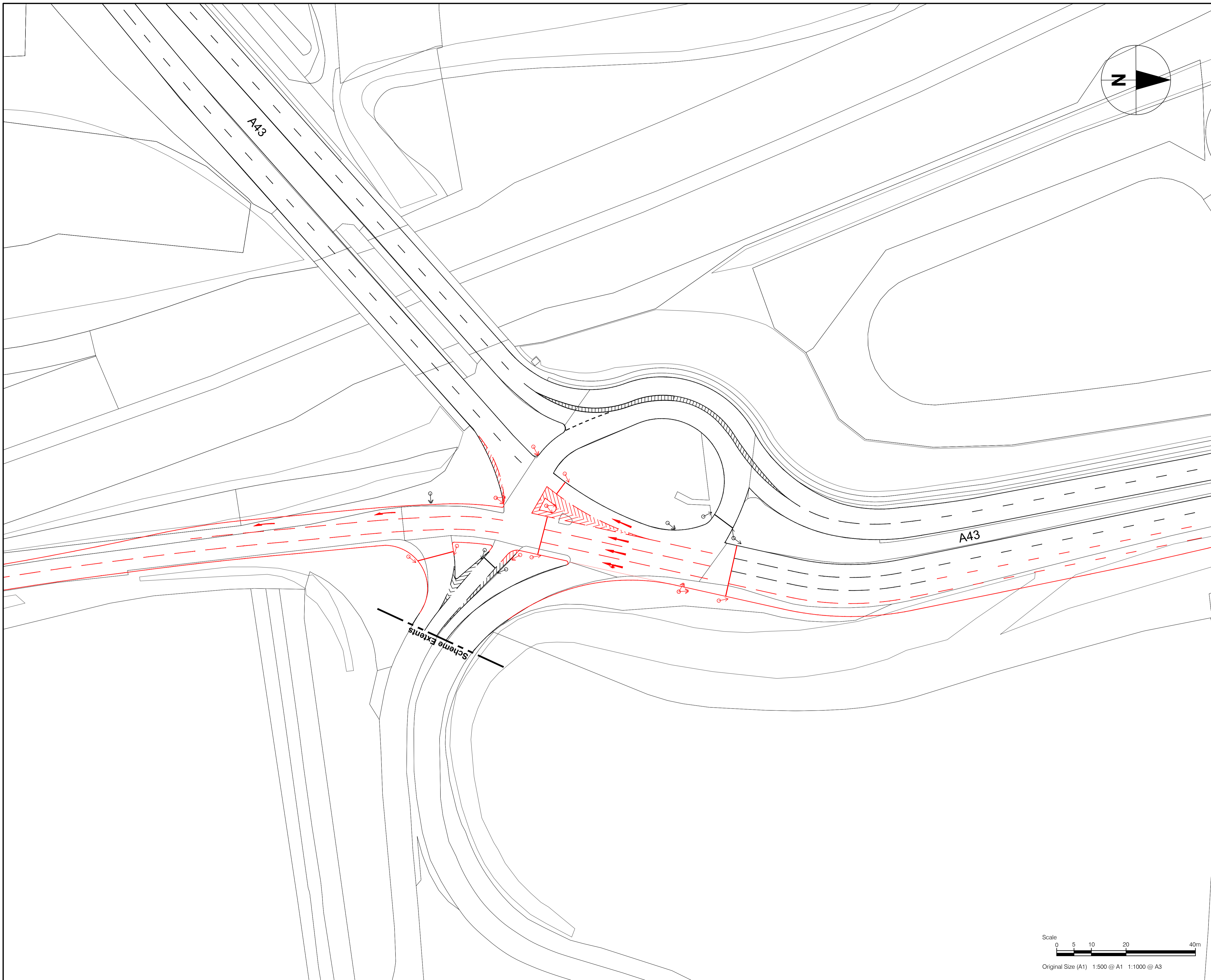
I/R	DATE	DESCRIPTION
1	JAN 2018	OPTION DEVELOP. & TESTING

PROJECT NUMBER
 60540307

SHEET TITLE
 M40 JUNCTION 10
 OPTION DEVELOPMENT & TESTING
 SHEET 1 OF 5
 A43 ARDLEY JUNCTION

SHEET NUMBER
 60540307-SHT-1-C-0002

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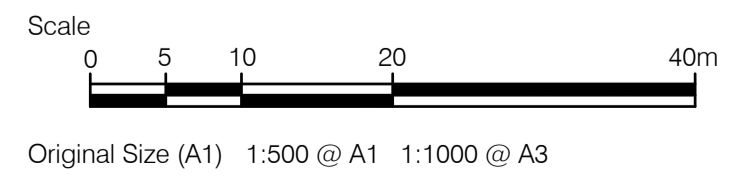
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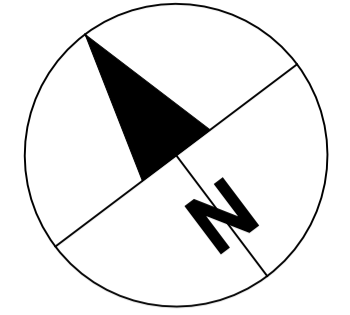
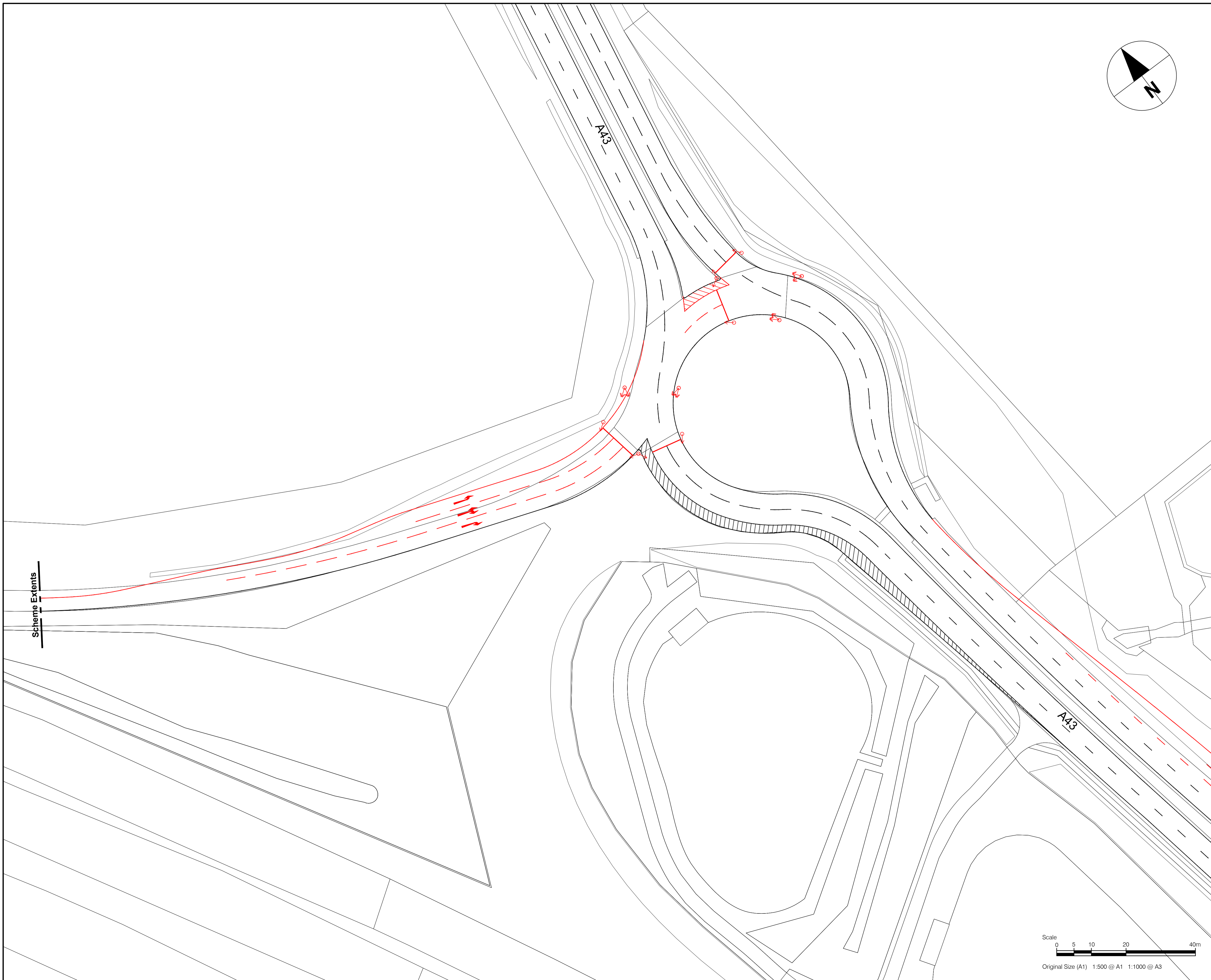
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SHEET TITLE
 M40 JUNCTION 10
 OPTION DEVELOPMENT & TESTING
 SHEET 2 OF 5
 A43 CHERWELL JUNCTION

SHEET NUMBER
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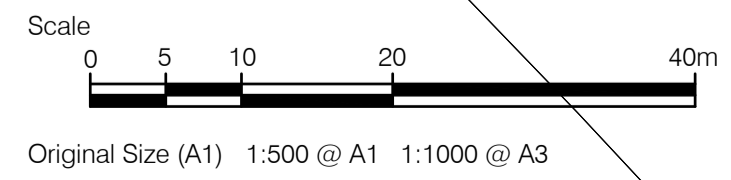
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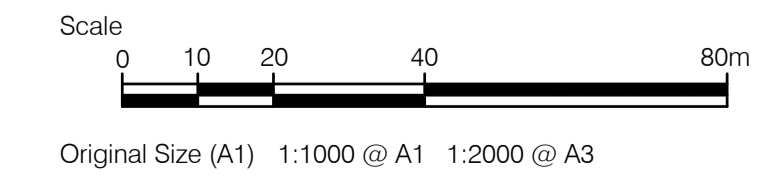
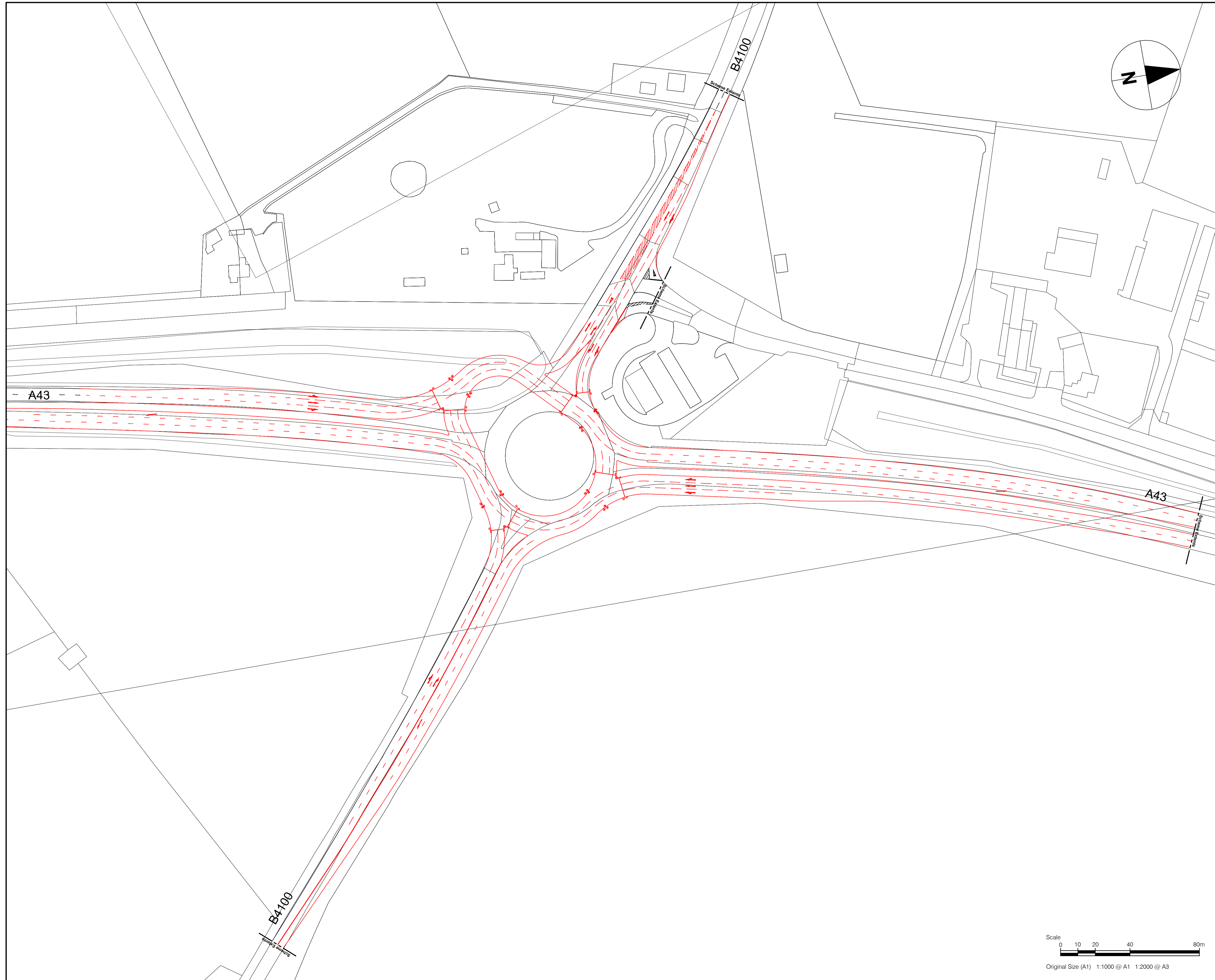
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SHEET TITLE
 M40 JUNCTION 10
 OPTION DEVELOPMENT & TESTING
 SHEET 3 OF 5
 A43 PADBURY JUNCTION

SHEET NUMBER
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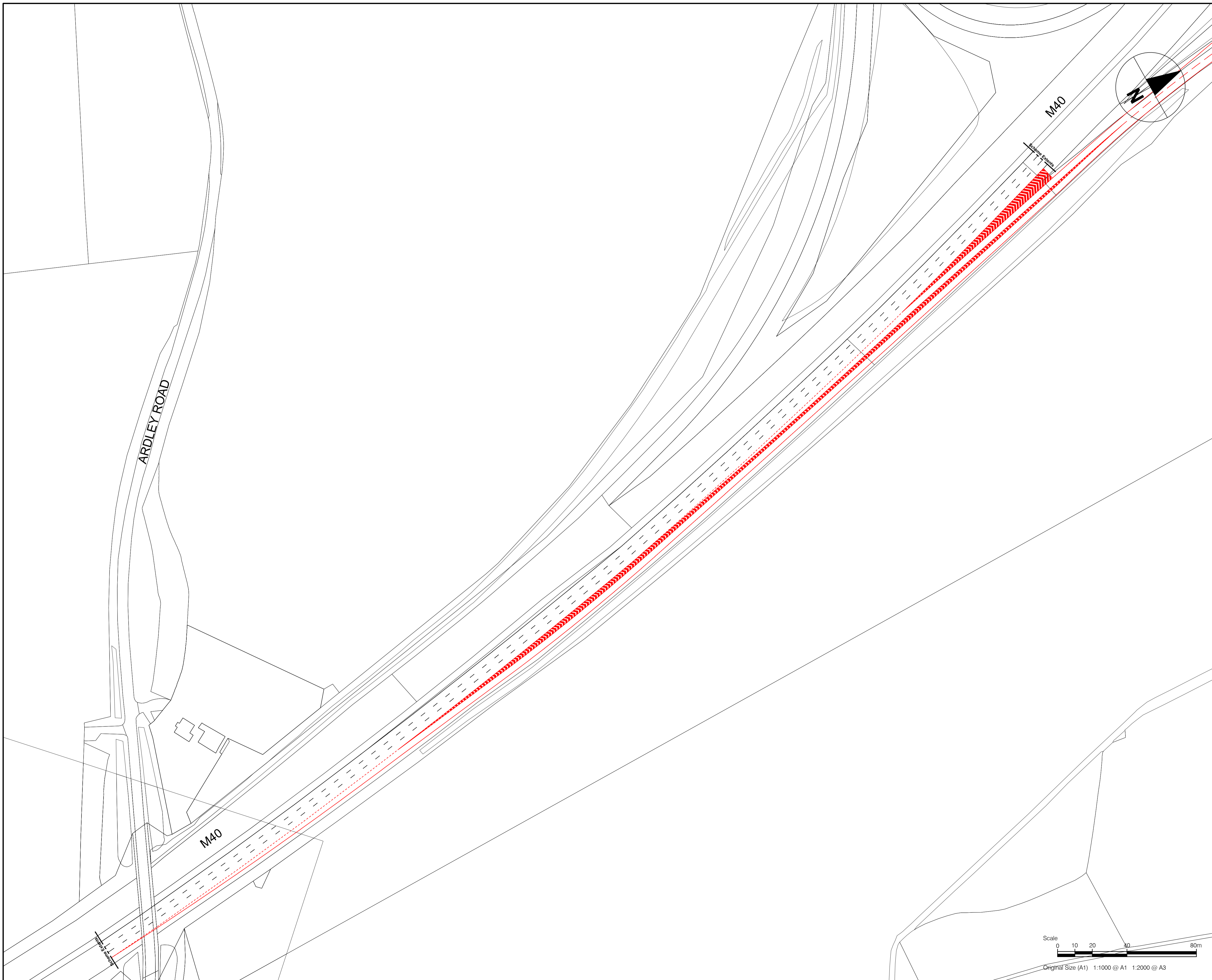
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SHEET TITLE
 M40 JUNCTION 10
 OPTION DEVELOPMENT & TESTING
 SHEET 4 OF 5
 BAYNARDS GREEN JUNCTION

SHEET NUMBER
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M40 JUNCTION 10
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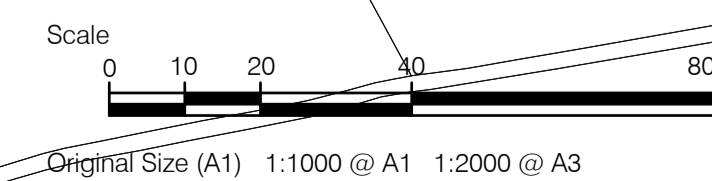
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SHEET TITLE

M40 JUNCTION 10
 OPTION DEVELOPMENT & TESTING
 SHEET 5 OF 5
 SOUTHBOUND ON-SLIP

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