

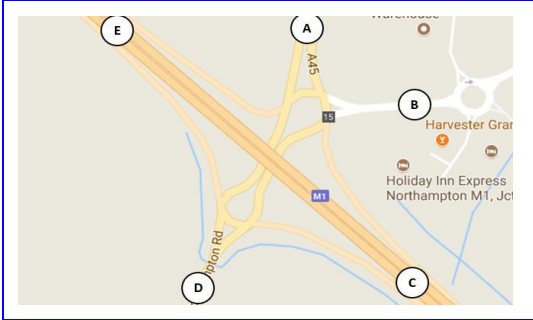
Appendix 43 2031 Future Year NSTM2 study area traffic flows

2031 REFERENCE CASE (D1 SCENARIO)

NSTM2 Study Area Turning Counts

Junction Turning Flows

Junction: M1 Junction 15



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	3355	3104	9220	2104	A45
B	27014	27015	3104	27014	Saxon Avenue
C	9116	9221	27015	9107	M1 East
D	1252	9117	9221	1252	A508
E	9106	9220	9117	9118	M1 West
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED									
PCU	To Arm							TOTAL	
	A	B	C	D	E	F	G		
From Arm	A	75	36	970	683	1834			3598
	B	26	0	20	2	9			57
	C	1519	124	0	144	0			1787
	D	421	12	84	0	312			829
	E	1404	144	0	483	3			2034
	F								
	G								
TOTAL	3445	316	1074	1312	2158			8305	

By Vehicle Type:

MODELLED									
Car	To Arm							TOTAL	
	A	B	C	D	E	F	G		
From Arm	A	69	35	767	604	1229			2704
	B	25	0	15	2	9			51
	C	1167	81	0	124	0			1372
	D	332	12	79	0	229			652
	E	1140	127	0	363	2			1632
	F								
	G								
TOTAL	2733	255	861	1093	1469			6411	

MODELLED									
LGV	To Arm							TOTAL	
	A	B	C	D	E	F	G		
From Arm	A	6	1	92	61	50			210
	B	1	0	4	0	0			5
	C	86	7	0	13	0			106
	D	29	0	4	0	15			48
	E	67	3	0	9	0			79
	F								
	G								
TOTAL	189	11	100	83	65			448	

MODELLED									
HGV (PCU)	To Arm							TOTAL	
	A	B	C	D	E	F	G		
From Arm	A	0	0	111	18	555			684
	B	0	0	1	0	0			1
	C	266	36	0	7	0			309
	D	60	0	1	0	68			129
	E	197	14	0	111	1			323
	F								
	G								
TOTAL	523	50	113	136	624			1446	

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MODELLED									
PCU	To Arm							TOTAL	
	A	B	C	D	E	F	G		
From Arm	A	153	88	972	922	1286			3421
	B	26	0	133	14	89			262
	C	1399	33	0	99	0			1531
	D	639	3	35	0	279			956
	E	1256	100	0	266	0			1622
	F								
	G								
TOTAL	3473	224	1140	1301	1654			7792	

By Vehicle Type:

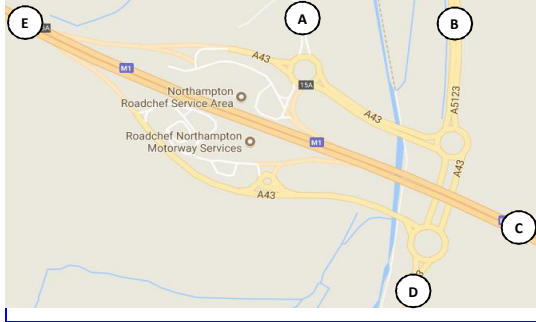
MODELLED									
Car	To Arm							TOTAL	
	A	B	C	D	E	F	G		
From Arm	A	146	84	881	798	1164			3073
	B	25	0	86	14	15			140
	C	1097	25	0	94	0			1216
	D	603	3	31	0	187			824
	E	980	54	0	159	0			1193
	F								
	G								
TOTAL	2851	166	998	1065	1366			6446	

MODELLED									
LGV	To Arm							TOTAL	
	A	B	C	D	E	F	G		
From Arm	A	7	2	37	21	23			90
	B	1	0	0	0	1			2
	C	69	0	0	5	0			74
	D	21	0	3	0	8			32
	E	62	2	0	13	0			77
	F								
	G								
TOTAL	160	4	40	39	32			275	

MODELLED									
HGV (PCU)	To Arm							TOTAL	
	A	B	C	D	E	F	G		
From Arm	A	0	2	54	103	99			258
	B	0	0	47	0	73			120
	C	233	8	0	0	0			241
	D	15	0	1	0	84			100
	E	214	44	0	94	0			352
	F								
	G								
TOTAL	462	54	102	197	256			1071	

Junction Turning Flows

Junction: **M1 Junction 15a**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	21265	21266	21266	21265	Swan Valley Way
B	2102	3246	3246	2102	A5123
C	1246	82005	82001	5246	M1 East
D	2309	4246	4246	2309	A43
E	6246	2266	82004	24119	M1 West
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	845	75	0		921
	B	1	0	342	1363	226		1931
	C	28	275	1	364	0		667
	D	235	1172	281	0	350		2038
	E	4	443	0	592	0		1039
	F							
	G							
TOTAL	267	1889	1469	2394	576		6596	

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	718	74	0		792
	B	1	0	330	1028	182		1541
	C	24	182	1	337	0		544
	D	223	864	262	0	328		1678
	E	4	400	0	334	0		738
	F							
	G							
TOTAL	252	1446	1311	1773	511		5292	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	23	1	0		24
	B	0	0	10	114	11		135
	C	2	32	0	26	0		60
	D	7	55	17	0	9		88
	E	0	16	0	41	0		57
	F							
	G							
TOTAL	9	103	51	182	20		365	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	104	1	0		104
	B	0	0	2	220	32		255
	C	2	61	0	0	0		64
	D	4	254	1	0	13		272
	E	0	26	0	217	0		244
	F							
	G							
TOTAL	7	341	107	439	45		938	

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	572	155	0		727
	B	0	0	296	982	213		1491
	C	108	467	0	189	0		763
	D	168	1239	289	0	326		2022
	E	7	461	0	418	0		886
	F							
	G							
TOTAL	283	2166	1156	1744	540		5889	

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	530	151	0		681
	B	0	0	232	812	202		1246
	C	13	371	0	185	0		568
	D	161	911	279	0	302		1653
	E	7	264	0	386	0		657
	F							
	G							
TOTAL	180	1546	1041	1533	504		4805	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	38	4	0		41
	B	0	0	8	45	8		61
	C	1	21	0	4	0		25
	D	5	61	10	0	24		101
	E	0	17	0	16	0		34
	F							
	G							
TOTAL	6	99	56	69	32		262	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	4	0	0		4
	B	0	0	56	126	3		185
	C	94	75	0	0	0		169
	D	1	266	0	0	0		268
	E	0	180	0	16	0		196
	F							
	G							
TOTAL	96	521	60	142	3		822	

Junction Turning Flows

Junction: A45/Watering Ln



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A			2104	2093	A45 North
B	83008	2104			A45 South
C	1104	2104	2104	1104	Watering Lane
D					
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED								
PCU	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	3017	0	294				3311
	C	485	0	0				485
	D							
	E							
	F							
	G							
	TOTAL	3502	0	294				

By Vehicle Type:

MODELLED								
Car	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	2421	0	260				2681
	C	446	0	0				446
	D							
	E							
	F							
	G							
	TOTAL	2867	0	260				

MODELLED								
LGV	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	163	0	34				197
	C	39	0	0				39
	D							
	E							
	F							
	G							
	TOTAL	202	0	34				

MODELLED								
HGV (PCU)	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	433	0	0				433
	C	0	0	0				0
	D							
	E							
	F							
	G							
	TOTAL	433	0	0				

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MODELLED								
PCU	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	3187	0	125				3312
	C	272	0	0				272
	D							
	E							
	F							
	G							
	TOTAL	3459	0	125				

By Vehicle Type:

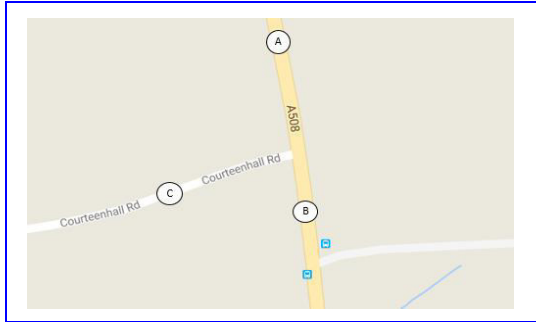
MODELLED								
Car	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	2636	0	120				2756
	C	238	0	0				238
	D							
	E							
	F							
	G							
	TOTAL	2874	0	120				

MODELLED								
LGV	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	146	0	5				151
	C	34	0	0				34
	D							
	E							
	F							
	G							
	TOTAL	180	0	5				

MODELLED								
HGV (PCU)	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	405	0	0				405
	C	0	0	0				0
	D							
	E							
	F							
	G							
	TOTAL	405	0	0				

Junction Turning Flows

Junction: A508/Courteenhall Rd



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	21152	25210	25210	21152	A508 (SB)
B	25176	25210	25210	25176	A508 (NB)
C	70874	25210	25210	70874	Courteenhall Rd
D					
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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		MODELLED							TOTAL
		To Arm							
From Arm	PCU	A	B	C	D	E	F	G	
	A	0	1067	300					1368
	B	751	0	56					807
	C	226	50	0					276
	D								
	E								
	F								
	G								
TOTAL		977	1117	356				2450	

By Vehicle Type:

		MODELLED							TOTAL
		To Arm							
From Arm	Car	A	B	C	D	E	F	G	
	A	0	898	253					1150
	B	586	0	55					641
	C	217	49	0					266
	D								
	E								
	F								
	G								
TOTAL		802	947	308				2057	

		MODELLED							TOTAL
		To Arm							
From Arm	LGV	A	B	C	D	E	F	G	
	A	0	22	45					67
	B	41	0	0					41
	C	9	1	0					10
	D								
	E								
	F								
	G								
TOTAL		50	23	45				118	

		MODELLED							TOTAL
		To Arm							
From Arm	HGV (PCU)	A	B	C	D	E	F	G	
	A	0	147	3					151
	B	125	0	0					125
	C	0	0	0					0
	D								
	E								
	F								
	G								
TOTAL		125	147	3				275	

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		MODELLED							TOTAL
		To Arm							
From Arm	PCU	A	B	C	D	E	F	G	
	A	0	898	338					1236
	B	962	0	8					970
	C	49	68	0					117
	D								
	E								
	F								
	G								
TOTAL		1011	966	346				2323	

By Vehicle Type:

		MODELLED							TOTAL
		To Arm							
From Arm	Car	A	B	C	D	E	F	G	
	A	0	779	242					1022
	B	854	0	8					861
	C	49	67	0					116
	D								
	E								
	F								
	G								
TOTAL		902	846	250				1999	

		MODELLED							TOTAL
		To Arm							
From Arm	LGV	A	B	C	D	E	F	G	
	A	0	10	19					29
	B	30	0	0					30
	C	1	1	0					2
	D								
	E								
	F								
	G								
TOTAL		30	11	19				60	

		MODELLED							TOTAL
		To Arm							
From Arm	HGV (PCU)	A	B	C	D	E	F	G	
	A	0	109	77					185
	B	79	0	0					79
	C	0	0	0					0
	D								
	E								
	F								
	G								
TOTAL		79	109	77				265	

Junction Turning Flows

Junction: **A508/Rookery Ln/Ashton Rd**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	70611	70111	70111	70611	A508 North
B	70222	70111	70111	70222	Ashton Road
C	24622	70111	70111	24622	A508 South
D	70444	70111	70111	70444	Rookery Lane
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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		MODELLED							TOTAL
		To Arm							
From Arm	PCU	A	B	C	D	E	F	G	
	From Arm	A	0	0	789	82			
B		0	0	5	28				33
C		470	79	0	0				549
D		198	22	108	0				329
E									
F									
G									
TOTAL			668	102	903	110			

By Vehicle Type:

		MODELLED							TOTAL
		To Arm							
From Arm	Car	A	B	C	D	E	F	G	
	From Arm	A	0	0	630	74			
B		0	0	5	26				31
C		316	79	0	0				395
D		186	22	107	0				315
E									
F									
G									
TOTAL			502	101	743	100			

		MODELLED							TOTAL
		To Arm							
From Arm	LGV	A	B	C	D	E	F	G	
	From Arm	A	0	0	14	2			
B		0	0	0	2				2
C		35	0	0	0				35
D		4	1	1	0				6
E									
F									
G									
TOTAL			39	1	15	4			

		MODELLED							TOTAL
		To Arm							
From Arm	HGV (PCU)	A	B	C	D	E	F	G	
	From Arm	A	0	0	145	6			
B		0	0	0	0				0
C		119	0	0	0				119
D		8	0	0	0				8
E									
F									
G									
TOTAL			127	0	145	6			

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		MODELLED							TOTAL
		To Arm							
From Arm	PCU	A	B	C	D	E	F	G	
	From Arm	A	0	0	642	230			
B		0	0	6	10				16
C		679	33	0	0				712
D		202	7	0	0				209
E									
F									
G									
TOTAL			882	40	647	240			

By Vehicle Type:

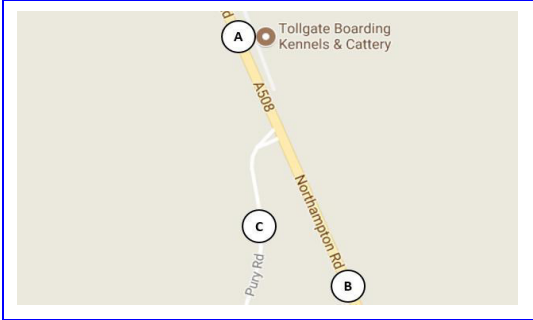
		MODELLED							TOTAL
		To Arm							
From Arm	Car	A	B	C	D	E	F	G	
	From Arm	A	0	0	538	219			
B		0	0	6	7				13
C		576	33	0	0				609
D		197	6	0	0				202
E									
F									
G									
TOTAL			773	39	544	226			

		MODELLED							TOTAL
		To Arm							
From Arm	LGV	A	B	C	D	E	F	G	
	From Arm	A	0	0	0	8			
B		0	0	0	3				3
C		23	0	0	0				23
D		5	1	0	0				7
E									
F									
G									
TOTAL			28	1	0	11			

		MODELLED							TOTAL
		To Arm							
From Arm	HGV (PCU)	A	B	C	D	E	F	G	
	From Arm	A	0	0	103	2			
B		0	0	0	0				0
C		80	0	0	0				80
D		0	0	0	0				0
E									
F									
G									
TOTAL			81	0	103	2			

Junction Turning Flows

Junction: **A508/Pury Rd**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	24622	75174	75174	24622	A508 North
B	70884	75174	75174	70884	A508 South
C	75171	75174	75174	75171	Pury Road
D					
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	539	576				1115
	B	415	0	3				419
	C	236	2	0				239
	D							
	E							
	F							
	G							
TOTAL	652	541	579					1772

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	435	502				937
	B	264	0	3				267
	C	225	2	0				227
	D							
	E							
	F							
	G							
TOTAL	489	436	505					1430

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	15	15				29
	B	38	0	0				38
	C	7	1	0				8
	D							
	E							
	F							
	G							
TOTAL	45	15	15					75

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	90	60				149
	B	113	0	0				113
	C	4	0	0				4
	D							
	E							
	F							
	G							
TOTAL	117	90	60					267

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	492	290				782
	B	728	0	1				729
	C	253	69	0				322
	D							
	E							
	F							
	G							
TOTAL	981	561	291					1833

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	382	289				671
	B	616	0	1				617
	C	221	69	0				290
	D							
	E							
	F							
	G							
TOTAL	837	451	290					1577

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	6	1				7
	B	29	0	0				29
	C	29	0	0				29
	D							
	E							
	F							
	G							
TOTAL	59	6	1					66

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	104	0				104
	B	83	0	0				83
	C	3	0	0				3
	D							
	E							
	F							
	G							
TOTAL	86	104	0					190

Junction Turning Flows

Junction: Stoke Rd/Knock Ln



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	70997	25245	25245	70997	Stoke Rd North
B	70607	25245	25245	70607	Knock Ln
C	25211	25245	25245	25211	Stoke Rd South
D					
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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		MODELLED							TOTAL
		To Arm							
From Arm	PCU	A	B	C	D	E	F	G	
	A	0	89	377					466
	B	50	0	0					50
	C	148	0	0					148
	D								
	E								
	F								
	G								
TOTAL		198	89	377					664

By Vehicle Type:

		MODELLED							TOTAL
		To Arm							
From Arm	Car	A	B	C	D	E	F	G	
	A	0	84	357					441
	B	50	0	0					50
	C	112	0	0					112
	D								
	E								
	F								
	G								
TOTAL		162	84	357					603

		MODELLED							TOTAL
		To Arm							
From Arm	LGV	A	B	C	D	E	F	G	
	A	0	4	21					25
	B	0	0	0					0
	C	31	0	0					31
	D								
	E								
	F								
	G								
TOTAL		31	4	21					56

		MODELLED							TOTAL
		To Arm							
From Arm	HGV (PCU)	A	B	C	D	E	F	G	
	A	0	0	0					0
	B	0	0	0					0
	C	4	0	0					4
	D								
	E								
	F								
	G								
TOTAL		4	0	0					5

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		MODELLED							TOTAL
		To Arm							
From Arm	PCU	A	B	C	D	E	F	G	
	A	0	109	185					294
	B	23	0	0					23
	C	551	0	0					551
	D								
	E								
	F								
	G								
TOTAL		575	109	185					868

By Vehicle Type:

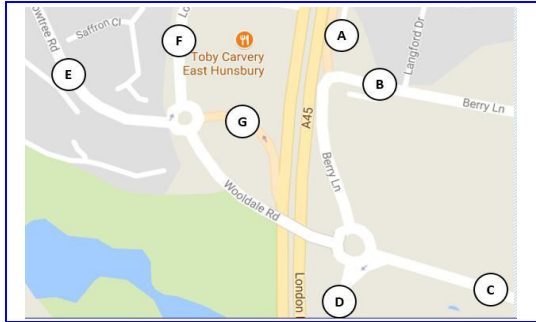
		MODELLED							TOTAL
		To Arm							
From Arm	Car	A	B	C	D	E	F	G	
	A	0	106	176					282
	B	23	0	0					23
	C	513	0	0					513
	D								
	E								
	F								
	G								
TOTAL		536	106	176					818

		MODELLED							TOTAL
		To Arm							
From Arm	LGV	A	B	C	D	E	F	G	
	A	0	3	8					11
	B	0	0	0					0
	C	33	0	0					33
	D								
	E								
	F								
	G								
TOTAL		34	3	8					45

		MODELLED							TOTAL
		To Arm							
From Arm	HGV (PCU)	A	B	C	D	E	F	G	
	A	0	0	0					0
	B	0	0	0					0
	C	6	0	0					6
	D								
	E								
	F								
	G								
TOTAL		6	0	0					6

Junction Turning Flows

Junction: **A45 Wootton Interchange**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	6082	5082			A45 SB Off-slip
B	4082	5082	5082	4082	Berry Lane East
C	3081	75031	75031	3081	Wooldale Road
D	1355	75032	75032	1355	unnamed road
E	24752	1093	1093	24752	Rowtree Road
F			1093	26031	London Road
G	2093	1093			A45 NB On-slip

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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		MODELLED							
		To Arm							
From Arm	PCU	A	B	C	D	E	F	G	TOTAL
	From Arm	A	0	0	0	0	138	19	0
B		0	0	0	93	29	112	0	234
C		0	0	0	674	76	113	0	863
D		0	83	172	0	114	316	0	685
E		0	43	482	419	0	643	0	1587
F		0	0	0	0	0	0	0	0
G		0	25	407	45	141	38	0	656
TOTAL		0	151	1061	1231	498	1241	0	4182

By Vehicle Type:

		MODELLED							
		To Arm							
From Arm	Car	A	B	C	D	E	F	G	TOTAL
	From Arm	A	0	0	0	0	122	18	0
B		0	0	0	74	29	109	0	212
C		0	0	0	348	70	97	0	515
D		0	76	157	0	113	304	0	650
E		0	42	454	417	0	479	0	1392
F		0	0	0	0	0	0	0	0
G		0	22	250	41	116	36	0	465
TOTAL		0	140	861	880	450	1043	0	3374

		MODELLED							
		To Arm							
From Arm	LGV	A	B	C	D	E	F	G	TOTAL
	From Arm	A	0	0	0	0	7	1	0
B		0	0	0	3	0	2	0	5
C		0	0	0	26	5	5	0	36
D		0	3	4	0	1	10	0	18
E		0	1	17	1	0	22	0	41
F		0	0	0	0	0	0	0	0
G		0	1	22	4	6	2	0	35
TOTAL		0	5	43	34	19	42	0	143

		MODELLED							
		To Arm							
From Arm	HGV (PCU)	A	B	C	D	E	F	G	TOTAL
	From Arm	A	0	0	0	0	9	0	0
B		0	0	0	16	0	1	0	17
C		0	0	0	300	1	11	0	312
D		0	4	11	0	0	2	0	17
E		0	0	11	1	0	142	0	154
F		0	0	0	0	0	0	0	0
G		0	2	135	0	19	0	0	156
TOTAL		0	6	157	317	29	156	0	665

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		MODELLED							
		To Arm							
From Arm	PCU	A	B	C	D	E	F	G	TOTAL
	From Arm	A	0	0	13	0	519	83	0
B		0	0	0	0	0	0	0	0
C		0	0	0	553	345	111	0	1009
D		0	59	240	0	82	221	0	602
E		0	8	189	364	0	607	0	1168
F		0	0	0	0	0	0	0	0
G		0	21	584	17	274	0	0	896
TOTAL		0	88	1026	934	1220	1022	0	4290

By Vehicle Type:

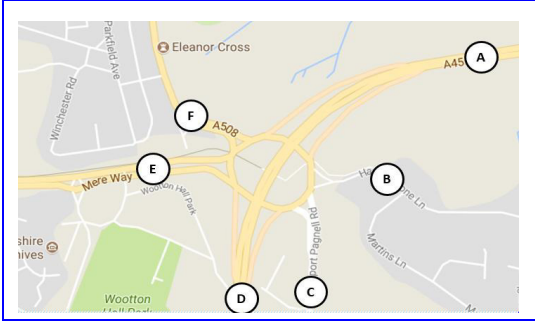
		MODELLED							
		To Arm							
From Arm	Car	A	B	C	D	E	F	G	TOTAL
	From Arm	A	0	0	13	0	438	81	0
B		0	0	0	0	0	0	0	0
C		0	0	0	430	205	105	0	740
D		0	55	221	0	81	210	0	567
E		0	7	149	356	0	219	0	731
F		0	0	0	0	0	0	0	0
G		0	20	405	8	255	0	0	688
TOTAL		0	82	788	794	979	615	0	3258

		MODELLED							
		To Arm							
From Arm	LGV	A	B	C	D	E	F	G	TOTAL
	From Arm	A	0	0	0	0	13	2	0
B		0	0	0	0	0	0	0	0
C		0	0	0	20	3	5	0	28
D		0	2	19	0	1	8	0	30
E		0	1	8	7	0	29	0	45
F		0	0	0	0	0	0	0	0
G		0	0	18	6	11	0	0	35
TOTAL		0	3	45	33	28	44	0	153

		MODELLED							
		To Arm							
From Arm	HGV (PCU)	A	B	C	D	E	F	G	TOTAL
	From Arm	A	0	0	0	0	68	0	0
B		0	0	0	0	0	0	0	0
C		0	0	0	103	137	1	0	241
D		0	2	0	0	0	3	0	5
E		0	0	32	1	0	359	0	392
F		0	0	0	0	0	0	0	0
G		0	1	161	3	8	0	0	173
TOTAL		0	3	193	107	213	363	0	879

Junction Turning Flows

Junction: **A45 Queen Eleanor Interchange**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	9168	2092	60137	9162	A45 North
B	1081	1079	1079	1081	Hardington Lane
C	24742	3082	3082	24742	Newport Pagnell Rd
D	9161	60134	60133	9169	A45 South
E	60203	1092	1092	60203	Mere Way
F	2088	60136	60136	2088	A508 - London Road
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED									
PCU	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	72	131	0	1485	323		2011
	B	205	0	0	42	80	170		497
	C	202	0	0	0	280	425		907
	D	27	0	0	0	30	782		839
	E	1762	19	458	209	0	3		2451
	F	190	11	472	470	20	0		1163
	G								
	TOTAL	2386	102	1061	721	1895	1703		7868

By Vehicle Type:

MODELLED									
Car	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	68	120	0	1239	282		1709
	B	202	0	0	42	79	167		490
	C	200	0	0	0	273	411		884
	D	18	0	0	0	27	465		510
	E	1352	18	425	188	0	3		1986
	F	182	11	429	387	20	0		1029
	G								
	TOTAL	1954	97	974	617	1638	1328		6608

MODELLED									
LGV	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	4	5	0	81	28		118
	B	3	0	0	0	1	3		7
	C	2	0	0	0	4	8		14
	D	2	0	0	0	3	45		50
	E	35	1	6	11	0	0		53
	F	4	0	3	18	0	0		25
	G								
	TOTAL	46	5	14	29	89	84		267

MODELLED									
HGV (PCU)	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	6	0	165	13		184
	B	0	0	0	0	0	0		0
	C	0	0	0	0	3	6		9
	D	7	0	0	0	0	272		279
	E	375	0	27	10	0	0		412
	F	4	0	40	65	0	0		109
	G								
	TOTAL	386	0	73	75	168	291		993

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MODELLED									
PCU	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	526	58	0	1191	238		2013
	B	460	0	0	31	36	150		677
	C	183	2	0	60	831	531		1607
	D	0	32	10	0	27	500		569
	E	1625	113	371	467	0	5		2581
	F	399	80	170	577	86	0		1312
	G								
	TOTAL	2667	753	609	1135	2171	1424		8759

By Vehicle Type:

MODELLED									
Car	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	522	58	0	1031	215		1826
	B	437	0	0	31	34	145		647
	C	181	2	0	59	810	505		1557
	D	0	32	10	0	22	450		514
	E	1431	112	368	457	0	5		2373
	F	378	76	155	518	81	0		1208
	G								
	TOTAL	2427	744	591	1065	1978	1320		8125

MODELLED									
LGV	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	4	0	0	62	23		89
	B	18	0	0	0	2	4		24
	C	2	0	0	1	21	26		50
	D	0	0	0	0	0	16		16
	E	22	1	2	1	0	0		26
	F	21	4	7	5	5	0		42
	G								
	TOTAL	63	9	9	7	90	69		247

MODELLED									
HGV (PCU)	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	0	0	98	0		98
	B	5	0	0	0	0	1		6
	C	0	0	0	0	0	0		0
	D	0	0	0	0	5	34		39
	E	172	0	1	9	0	0		182
	F	0	0	8	54	0	0		62
	G								
	TOTAL	177	0	9	63	103	35		387

Junction Turning Flows

Junction: **A45 Brackmills Interchange**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	75028	3084	2084	7084	A45/ Nene Valley Way
B	2345	4084	3084	2345	Caswell Road
C	9163	6084	4084	5084	A45/ Nene Valley Way
D	1084	2084	6084	1084	Eagle Drive
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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		MODELLED							TOTAL
		To Arm							
From Arm	PCU	A	B	C	D	E	F	G	
	A	8	1057	56	10				1131
	B	888	0	599	5				1492
	C	1341	655	0	14				2010
	D	42	12	27	0				81
	E								
	F								
	G								
TOTAL		2279	1724	682	29				4714

By Vehicle Type:

		MODELLED							TOTAL
		To Arm							
From Arm	Car	A	B	C	D	E	F	G	
	A	8	900	49	10				967
	B	824	0	430	4				1258
	C	1188	580	0	9				1777
	D	30	6	19	0				55
	E								
	F								
	G								
TOTAL		2050	1486	498	23				4057

		MODELLED							TOTAL
		To Arm							
From Arm	LGV	A	B	C	D	E	F	G	
	A	0	5	3	0				8
	B	23	0	37	1				61
	C	45	8	0	5				58
	D	12	6	8	0				26
	E								
	F								
	G								
TOTAL		80	19	48	6				153

		MODELLED							TOTAL
		To Arm							
From Arm	HGV (PCU)	A	B	C	D	E	F	G	
	A	0	152	4	0				156
	B	41	0	132	0				173
	C	108	67	0	0				175
	D	0	0	0	0				0
	E								
	F								
	G								
TOTAL		149	219	136	0				504

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		MODELLED							TOTAL
		To Arm							
From Arm	PCU	A	B	C	D	E	F	G	
	A	0	252	462	0				714
	B	157	0	361	50				568
	C	1336	666	0	9				2011
	D	566	82	146	0				794
	E								
	F								
	G								
TOTAL		2059	1000	969	59				4087

By Vehicle Type:

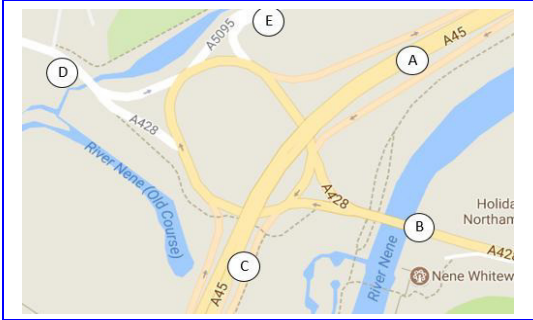
		MODELLED							TOTAL
		To Arm							
From Arm	Car	A	B	C	D	E	F	G	
	A	0	245	447	0				692
	B	154	0	256	49				459
	C	1133	578	0	3				1714
	D	541	55	131	0				727
	E								
	F								
	G								
TOTAL		1828	878	834	52				3592

		MODELLED							TOTAL
		To Arm							
From Arm	LGV	A	B	C	D	E	F	G	
	A	0	7	13	0				20
	B	2	0	19	1				22
	C	58	27	0	6				91
	D	15	9	15	0				39
	E								
	F								
	G								
TOTAL		75	43	47	7				172

		MODELLED							TOTAL
		To Arm							
From Arm	HGV (PCU)	A	B	C	D	E	F	G	
	A	0	0	2	0				2
	B	1	0	86	0				87
	C	145	61	0	0				206
	D	10	18	0	0				28
	E								
	F								
	G								
TOTAL		156	79	88	0				323

Junction Turning Flows

Junction: **A45 Barnes Meadow Interchange**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	9166	9176	9175	9165	A45/NeneValley Way
B	24740	2053	2053	24740	A428/Bedford Road
C	9164	9173	9177	75027	A45/NeneValley Way
D	2051	9174	9174	2051	A428/Bedford Road
E	1054	9175	9175	1054	A5095/ Rushmere Road
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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		MODELLED							
		To Arm							
From Arm	PCU	A	B	C	D	E	F	G	TOTAL
		A	0	386	512	834	27		
	B	143	0	96	277	159			675
	C	0	118	0	910	189			1217
	D	844	719	181	0	150			1894
	E	168	753	437	2	0			1360
	F								
	G								
	TOTAL	1155	1976	1226	2023	525			6905

By Vehicle Type:

		MODELLED							
		To Arm							
From Arm	Car	A	B	C	D	E	F	G	TOTAL
		A	0	276	422	784	27		
	B	131	0	79	227	142			579
	C	0	115	0	867	185			1167
	D	765	640	178	0	131			1714
	E	165	751	397	2	0			1315
	F								
	G								
	TOTAL	1061	1782	1076	1880	485			6284

		MODELLED							
		To Arm							
From Arm	LGV	A	B	C	D	E	F	G	TOTAL
		A	0	3	19	32	0		
	B	7	0	11	17	6			41
	C	0	3	0	42	4			49
	D	73	6	3	0	19			101
	E	3	1	35	0	0			39
	F								
	G								
	TOTAL	83	13	68	91	29			284

		MODELLED							
		To Arm							
From Arm	HGV (PCU)	A	B	C	D	E	F	G	TOTAL
		A	0	107	71	18	0		
	B	5	0	6	33	11			55
	C	0	0	0	1	0			1
	D	6	73	0	0	0			79
	E	0	1	5	0	0			6
	F								
	G								
	TOTAL	11	181	82	52	11			337

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		MODELLED							
		To Arm							
From Arm	PCU	A	B	C	D	E	F	G	TOTAL
		A	0	136	302	699	10		
	B	397	0	159	422	661			1639
	C	0	56	0	907	325			1288
	D	1989	308	435	2	26			2760
	E	427	308	223	2	0			960
	F								
	G								
	TOTAL	2813	808	1119	2032	1022			7794

By Vehicle Type:

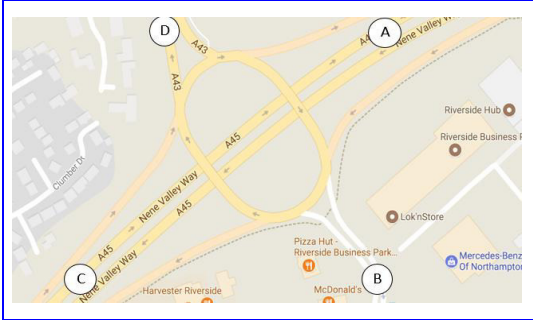
		MODELLED							
		To Arm							
From Arm	Car	A	B	C	D	E	F	G	TOTAL
		A	0	134	278	604	10		
	B	388	0	156	412	650			1606
	C	0	55	0	879	303			1237
	D	1783	300	424	2	25			2534
	E	419	299	217	2	0			937
	F								
	G								
	TOTAL	2590	788	1075	1899	988			7340

		MODELLED							
		To Arm							
From Arm	LGV	A	B	C	D	E	F	G	TOTAL
		A	0	2	10	13	0		
	B	6	0	3	7	9			25
	C	0	0	0	28	22			50
	D	84	5	11	0	1			101
	E	8	9	6	0	0			23
	F								
	G								
	TOTAL	98	16	30	48	32			224

		MODELLED							
		To Arm							
From Arm	HGV (PCU)	A	B	C	D	E	F	G	TOTAL
		A	0	0	14	82	0		
	B	3	0	0	3	2			8
	C	0	1	0	0	0			1
	D	122	3	0	0	0			125
	E	0	0	0	0	0			0
	F								
	G								
	TOTAL	125	4	14	85	2			230

Junction Turning Flows

Junction: **A45 Lumbertubs Interchange**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	9213	9214	9211	9212	A45/ Nene Valley Way
B	4437	9215	9214	4436	Ferris Flow
C	2075	9217	9215	9216	A45/ Nene Valley Way
D	9210	9211	9217	4068	A43/ Lumbertubs Way
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	74	0	269			343
	B	38	0	1083	304			1425
	C	0	129	0	1619			1748
	D	503	1274	1280	87			3144
	E							
	F							
	G							
	TOTAL	541	1477	2363	2279			6660

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	66	0	258			324
	B	35	0	994	271			1300
	C	0	120	0	1143			1263
	D	490	1133	1131	85			2839
	E							
	F							
	G							
	TOTAL	525	1319	2125	1757			5726

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	8	0	11			19
	B	2	0	37	8			47
	C	0	9	0	87			96
	D	12	54	52	2			120
	E							
	F							
	G							
	TOTAL	14	71	89	108			282

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	0	0			0
	B	1	0	52	25			78
	C	0	0	0	389			389
	D	1	87	97	0			185
	E							
	F							
	G							
	TOTAL	2	87	149	414			652

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	64	0	740			804
	B	78	0	868	548			1494
	C	0	143	0	1604			1747
	D	164	813	985	56			2018
	E							
	F							
	G							
	TOTAL	242	1020	1853	2948			6063

By Vehicle Type:

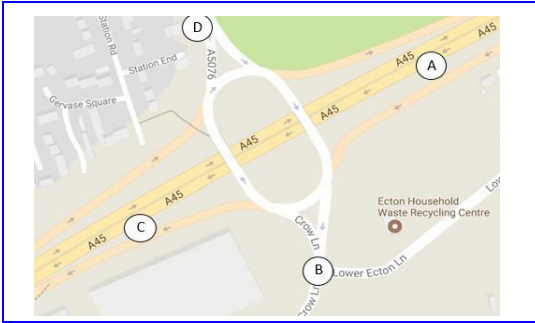
MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	39	0	714			753
	B	72	0	855	546			1473
	C	0	20	0	1367			1387
	D	158	711	909	56			1834
	E							
	F							
	G							
	TOTAL	230	770	1764	2683			5447

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	22	0	14			36
	B	6	0	12	2			20
	C	0	2	0	54			56
	D	6	19	22	0			47
	E							
	F							
	G							
	TOTAL	12	43	34	70			159

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	3	0	12			15
	B	0	0	1	0			1
	C	0	121	0	183			304
	D	0	83	54	0			137
	E							
	F							
	G							
	TOTAL	0	207	55	195			457

Junction Turning Flows

Junction: **A45 Great Billing Interchange**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	9259	9258	9253	9254	A45/ Nene Valley Way
B	1076	9257	9257	1076	Crow Lane
C	9250	9251	9256	9255	A45/ Nene Valley Way
D	24694	9252	9252	24694	Great Billing Way
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	414	0	292			706
	B	162	0	633	539			1334
	C	0	160	5	299			464
	D	372	325	1022	0			1719
	E							
	F							
	G							
	TOTAL	534	899	1660	1130			4223

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	225	0	265			490
	B	108	0	340	386			834
	C	0	149	5	292			446
	D	332	298	988	0			1618
	E							
	F							
	G							
	TOTAL	440	672	1333	943			3388

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	5	0	8			13
	B	45	0	55	51			151
	C	0	11	0	6			17
	D	7	20	24	0			51
	E							
	F							
	G							
	TOTAL	52	36	79	65			232

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	184	0	19			203
	B	9	0	238	102			349
	C	0	0	0	1			1
	D	33	7	10	0			50
	E							
	F							
	G							
	TOTAL	42	191	248	122			603

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	61	0	138			199
	B	235	0	225	627			1087
	C	161	106	0	646			913
	D	374	423	300	0			1097
	E							
	F							
	G							
	TOTAL	770	590	525	1411			3296

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	57	0	133			190
	B	197	0	168	542			907
	C	127	16	0	514			657
	D	354	403	295	0			1052
	E							
	F							
	G							
	TOTAL	678	476	463	1189			2806

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	4	0	5			9
	B	37	0	40	71			148
	C	5	12	0	18			35
	D	20	19	5	0			44
	E							
	F							
	G							
	TOTAL	62	35	45	94			236

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	0	0			0
	B	1	0	17	14			32
	C	29	78	0	114			221
	D	0	1	0	0			1
	E							
	F							
	G							
	TOTAL	30	79	17	128			254

Junction Turning Flows

Junction: **A5076/Towcester Rd roundabout**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	60104	5298	4298	60104	Towcester Road
B	60120	60119	60125	60120	Mere Way
C	60123	60121	60122	60123	Shopping centre
D	3096	60126	7298	3096	Towcester Road
E	60118	60117	21298	60118	Danes Camp Way
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	565	11	303	204		1083
	B	292	78	19	193	1513		2095
	C	8	22	0	26	20		76
	D	465	352	17	0	332		1166
	E	390	1421	24	121	12		1968
	F							
	G							
	TOTAL	1155	2438	71	643	2081		6388

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	546	11	285	195		1037
	B	286	77	17	185	1381		1946
	C	7	21	0	26	20		74
	D	424	344	17	0	308		1093
	E	347	1024	24	109	12		1516
	F							
	G							
	TOTAL	1064	2012	69	605	1916		5666

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	16	0	16	9		41
	B	5	1	2	3	26		37
	C	1	1	0	0	0		2
	D	40	5	0	0	24		69
	E	6	27	0	8	0		41
	F							
	G							
	TOTAL	52	50	2	27	59		190

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	3	0	2	0		5
	B	1	0	0	5	106		112
	C	0	0	0	0	0		0
	D	1	3	0	0	0		4
	E	37	370	0	4	0		411
	F							
	G							
	TOTAL	39	376	0	11	106		532

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	904	13	361	76		1354
	B	130	106	24	324	1496		2080
	C	10	35	0	35	17		97
	D	450	368	24	0	51		893
	E	207	1093	23	204	45		1572
	F							
	G							
	TOTAL	797	2506	84	924	1685		5996

By Vehicle Type:

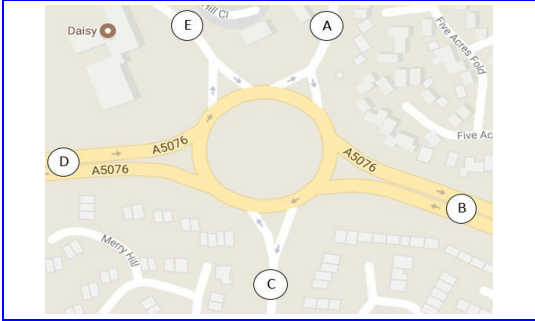
MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	885	12	324	75		1296
	B	111	53	20	283	1384		1851
	C	10	33	0	34	17		94
	D	412	348	23	0	51		834
	E	207	1081	23	203	45		1559
	F							
	G							
	TOTAL	740	2400	78	844	1572		5634

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	18	1	37	1		57
	B	8	7	4	21	48		88
	C	0	2	0	1	0		3
	D	18	3	1	0	0		22
	E	0	10	0	1	0		11
	F							
	G							
	TOTAL	26	40	6	60	49		181

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	1	0	0	0		1
	B	11	46	0	20	64		141
	C	0	0	0	0	0		0
	D	20	17	0	0	0		37
	E	0	2	0	0	0		2
	F							
	G							
	TOTAL	31	66	0	20	64		181

Junction Turning Flows

Junction: **A5076/Huntsbury Hill roundabout**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	1134	9411	9411	1134	Hunsbarrow Road
B	1091	9411	9411	1091	Danes Camp Way
C	1098	9411	9411	1098	Hunsbury Hill Road
D	4100	9411	9411	4100	Danes Camp Way
E	9413	9411	9411	9413	Hunsbury Hill Avenue
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	31	13	340	18		402
	B	12	0	73	1696	179		1959
	C	0	258	0	555	9		821
	D	12	2331	215	0	154		2712
	E	1	245	8	151	0		405
	F							
	G							
TOTAL	25	2865	309	2741	360		6300	

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	31	13	258	18		320
	B	11	0	73	1533	179		1796
	C	0	250	0	535	9		794
	D	7	1885	211	0	153		2255
	E	1	189	8	148	0		346
	F							
	G							
TOTAL	19	2355	305	2474	359		5511	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	0	81	0		82
	B	0	0	0	48	0		48
	C	0	2	0	20	0		22
	D	5	58	3	0	0		66
	E	0	1	0	1	0		2
	F							
	G							
TOTAL	6	61	3	149	0		219	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	0	0	0		1
	B	0	0	0	116	0		116
	C	0	5	0	0	0		6
	D	0	389	2	0	0		391
	E	0	55	0	1	0		57
	F							
	G							
TOTAL	0	450	2	118	0		569	

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	1	72	679	135		886
	B	47	0	87	1070	509		1713
	C	8	254	0	272	22		556
	D	228	1299	413	0	219		2160
	E	13	326	12	90	0		441
	F							
	G							
TOTAL	297	1880	584	2111	884		5756	

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	1	72	661	129		863
	B	47	0	87	983	509		1626
	C	8	252	0	270	22		552
	D	72	1274	403	0	191		1940
	E	13	326	12	90	0		441
	F							
	G							
TOTAL	140	1853	574	2003	851		5421	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	0	18	5		23
	B	0	0	0	36	0		36
	C	0	1	0	2	0		4
	D	1	22	10	0	28		62
	E	0	0	0	0	0		0
	F							
	G							
TOTAL	1	23	10	56	34		125	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	0	0	0		0
	B	0	0	0	52	0		52
	C	0	0	0	0	0		0
	D	155	4	0	0	0		158
	E	0	0	0	0	0		0
	F							
	G							
TOTAL	155	4	0	52	0		210	

Junction Turning Flows

Junction: **A5123/A5076 roundabout**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	3258	30008	30008	3258	Upton Way
B	3100	30009	30009	3100	A5076
C	2102	30007	30007	2102	A5123
D	4102	30010	30010	4102	Upton Valley Way E
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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		MODELLED							TOTAL
		To Arm							
From Arm	PCU	A	B	C	D	E	F	G	
	A	0	1214	783	183				
B	1187	0	965	616					2768
C	668	1057	0	32					1757
D	327	371	285	5					988
E									
F									
G									
TOTAL		2182	2642	2033	836				7693

By Vehicle Type:

		MODELLED							TOTAL
		To Arm							
From Arm	Car	A	B	C	D	E	F	G	
	A	0	1158	693	170				
B	1061	0	844	576					2481
C	426	772	0	31					1229
D	305	351	32	5					693
E									
F									
G									
TOTAL		1792	2281	1569	782				6424

		MODELLED							TOTAL
		To Arm							
From Arm	LGV	A	B	C	D	E	F	G	
	A	0	28	36	11				
B	39	0	86	30					155
C	57	41	0	1					99
D	16	11	7	0					34
E									
F									
G									
TOTAL		112	80	129	42				363

		MODELLED							TOTAL
		To Arm							
From Arm	HGV (PCU)	A	B	C	D	E	F	G	
	A	0	28	54	2				
B	87	0	35	10					132
C	185	244	0	0					429
D	6	9	246	0					261
E									
F									
G									
TOTAL		278	281	335	12				906

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		MODELLED							TOTAL
		To Arm							
From Arm	PCU	A	B	C	D	E	F	G	
	A	0	1490	619	115				
B	906	0	743	373					2022
C	1253	556	0	216					2025
D	130	161	33	6					330
E									
F									
G									
TOTAL		2289	2207	1395	710				6601

By Vehicle Type:

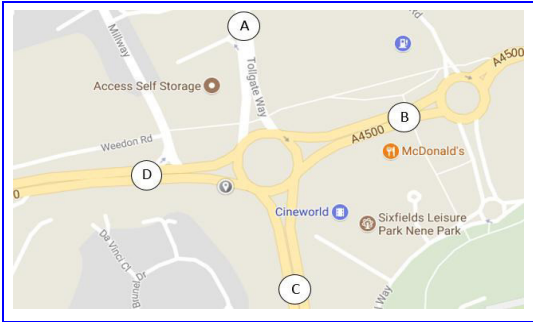
		MODELLED							TOTAL
		To Arm							
From Arm	Car	A	B	C	D	E	F	G	
	A	0	1457	444	115				
B	860	0	716	340					1916
C	910	368	0	210					1488
D	121	156	12	6					295
E									
F									
G									
TOTAL		1891	1981	1172	671				5715

		MODELLED							TOTAL
		To Arm							
From Arm	LGV	A	B	C	D	E	F	G	
	A	0	32	17	0				
B	19	0	22	14					55
C	37	32	0	6					75
D	8	4	19	0					31
E									
F									
G									
TOTAL		64	68	58	20				210

		MODELLED							TOTAL
		To Arm							
From Arm	HGV (PCU)	A	B	C	D	E	F	G	
	A	0	1	158	0				
B	27	0	5	19					51
C	306	156	0	0					462
D	1	1	2	0					4
E									
F									
G									
TOTAL		334	158	165	19				676

Junction Turning Flows

Junction: **A4500/A5076 roundabout**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	60099	9441	9440	60099	Tollgate Way
B	60100	9438	9441	60100	Weedon Road
C	60101	9439	9438	60101	Upton Way
D	60098	9440	9439	60098	Weedon Road
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	282	903	145			1330
	B	46	0	409	474			929
	C	773	595	0	375			1743
	D	181	915	369	68			1533
	E							
	F							
	G							
TOTAL	1000	1792	1681	1062			5535	

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	200	806	131			1137
	B	45	0	376	424			845
	C	574	521	0	341			1436
	D	131	795	350	67			1343
	E							
	F							
	G							
TOTAL	750	1516	1532	963			4761	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	82	67	5			154
	B	1	0	28	20			49
	C	52	20	0	32			104
	D	48	85	18	1			152
	E							
	F							
	G							
TOTAL	101	187	113	58			459	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	30	9			39
	B	0	0	5	30			35
	C	147	54	0	2			203
	D	2	35	1	0			38
	E							
	F							
	G							
TOTAL	149	89	36	41			315	

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	173	503	235			911
	B	50	0	974	739			1763
	C	767	628	0	165			1560
	D	192	828	332	7			1359
	E							
	F							
	G							
TOTAL	1009	1629	1809	1146			5593	

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	155	428	223			806
	B	39	0	925	659			1623
	C	659	548	0	128			1335
	D	161	755	324	7			1247
	E							
	F							
	G							
TOTAL	859	1458	1677	1017			5011	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	18	23	6			47
	B	3	0	18	13			34
	C	41	21	0	11			73
	D	26	52	8	0			86
	E							
	F							
	G							
TOTAL	70	91	49	30			240	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	52	6			58
	B	8	0	31	67			106
	C	67	59	0	26			152
	D	5	21	0	0			26
	E							
	F							
	G							
TOTAL	80	80	83	99			342	

Junction Turning Flows

Junction: **A5123/A508**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	25240	5003	5003	25240	St John's Street
B	2003	7003	7003	2003	123/ Victoria Promeda
C	9314	1277	1277	9314	Auctioneers Way
D	3085	3015	3015	3085	A508/ Cotton End
E	2004	6003	6003	2004	A5123/ St Peter's Way
F	21204	4003			Commercial Street
G	9003	5204	5204	9003	Bridge Street

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

AMNSTM 2 2031 AM D1 v8 forJ8.DAT

PCU		MODELLED							TOTAL
		To Arm							
From Arm	A	0	0	0	0	0	0	0	0
	B	0	0	0	532	705	0	51	1288
	C	0	0	0	12	16	0	1	29
	D	212	374	0	0	729	0	90	1405
	E	0	322	4	266	3	0	37	632
	F	315	0	0	0	0	0	369	684
	G	105	0	0	1	1	0	0	107
	TOTAL	632	696	4	811	1454	0	548	4145

By Vehicle Type:

Car		MODELLED							TOTAL
		To Arm							
From Arm	A	0	0	0	0	0	0	0	0
	B	0	0	0	463	584	0	51	1098
	C	0	0	0	9	9	0	1	19
	D	200	348	0	0	407	0	77	1032
	E	0	217	2	223	3	0	36	481
	F	303	0	0	0	0	0	365	668
	G	100	0	0	1	0	0	0	101
	TOTAL	603	565	2	696	1003	0	530	3399

LGV		MODELLED							TOTAL
		To Arm							
From Arm	A	0	0	0	0	0	0	0	0
	B	0	0	0	14	27	0	0	41
	C	0	0	0	3	7	0	0	10
	D	8	15	0	0	47	0	3	73
	E	0	37	2	10	0	0	1	50
	F	10	0	0	0	0	0	3	13
	G	5	0	0	0	1	0	0	6
	TOTAL	23	52	2	27	82	0	7	193

HGV (PCU)		MODELLED							TOTAL
		To Arm							
From Arm	A	0	0	0	0	0	0	0	0
	B	0	0	0	55	94	0	0	149
	C	0	0	0	0	0	0	0	0
	D	4	11	0	0	275	0	10	300
	E	0	68	0	33	0	0	0	101
	F	2	0	0	0	0	0	1	3
	G	0	0	0	0	0	0	0	0
	TOTAL	6	79	0	88	369	0	11	553

PMNSTM 2 2031 PM D1 v8 forJ8.DAT

PCU		MODELLED							TOTAL
		To Arm							
From Arm	A	0	3	0	40	58	0	0	101
	B	18	0	0	681	983	0	19	1701
	C	0	0	0	24	41	0	0	65
	D	162	418	0	0	425	0	32	1037
	E	0	104	0	400	11	0	0	515
	F	232	0	0	22	41	0	136	431
	G	489	0	0	28	202	0	0	719
	TOTAL	901	525	0	1195	1761	0	187	4569

By Vehicle Type:

Car		MODELLED							TOTAL
		To Arm							
From Arm	A	0	3	0	40	58	0	0	101
	B	17	0	0	665	896	0	19	1597
	C	0	0	0	22	37	0	0	59
	D	156	402	0	0	372	0	30	960
	E	0	67	0	347	10	0	0	424
	F	221	0	0	22	39	0	132	414
	G	478	0	0	27	196	0	0	701
	TOTAL	872	472	0	1123	1608	0	181	4256

LGV		MODELLED							TOTAL
		To Arm							
From Arm	A	0	0	0	0	0	0	0	0
	B	1	0	0	14	24	0	0	39
	C	0	0	0	2	4	0	0	6
	D	5	13	0	0	23	0	2	43
	E	0	7	0	8	1	0	0	16
	F	10	0	0	0	2	0	4	16
	G	11	0	0	1	6	0	0	18
	TOTAL	27	20	0	25	60	0	6	138

HGV (PCU)		MODELLED							TOTAL
		To Arm							
From Arm	A	0	0	0	0	0	0	0	0
	B	0	0	0	2	63	0	0	65
	C	0	0	0	0	0	0	0	0
	D	1	3	0	0	30	0	0	34
	E	0	30	0	45	0	0	0	75
	F	1	0	0	0	0	0	0	1
	G	0	0	0	0	0	0	0	0
	TOTAL	2	33	0	47	93	0	0	175

Junction Turning Flows

Junction: **A4500/A5123/A508**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	30019	30012	60197	30019	Horse Market
B	30018	30013	60198	30018	St Peter's Way
C	30017	30014	60199	30017	Towcester
D	60194	30015	30014	60194	St Peter's Way
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

AMNSTM 2 2031 AM D1 v8.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	350	456	14			820
	B	528	19	124	686			1357
	C	1177	161	0	575			1913
	D	60	1060	738	13			1871
	E							
	F							
	G							
	TOTAL	1765	1590	1318	1288			5961

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	323	427	13			763
	B	390	14	104	406			914
	C	1115	156	0	545			1816
	D	60	923	676	13			1672
	E							
	F							
	G							
	TOTAL	1565	1416	1207	977			5165

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	11	15	1			27
	B	37	1	13	48			99
	C	44	4	0	25			73
	D	0	57	55	0			112
	E							
	F							
	G							
	TOTAL	81	73	83	74			311

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	16	14	0			30
	B	101	4	7	232			344
	C	18	1	0	5			24
	D	0	80	7	0			87
	E							
	F							
	G							
	TOTAL	119	101	28	237			485

PMNSTM 2 2031 PM D1 v8.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	387	1067	6			1460
	B	591	51	279	866			1787
	C	657	49	0	264			970
	D	87	619	632	10			1348
	E							
	F							
	G							
	TOTAL	1335	1106	1978	1146			5565

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	364	1030	6			1400
	B	527	50	263	768			1608
	C	611	45	0	242			898
	D	87	555	592	10			1244
	E							
	F							
	G							
	TOTAL	1225	1014	1885	1026			5150

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	17	31	0			48
	B	22	1	10	32			65
	C	22	4	0	21			47
	D	0	19	18	0			37
	E							
	F							
	G							
	TOTAL	44	41	59	53			197

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	6	6	0			12
	B	42	0	6	66			114
	C	24	0	0	1			25
	D	0	45	22	0			67
	E							
	F							
	G							
	TOTAL	66	51	34	67			218

Junction Turning Flows

Junction: **Courteenhall Rd/High St/Northampton Rd**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	2141	24766	24766	2141	Northampton Road
B	70849	24766	24766	70849	Courteenhall Road
C	81042	24766	24766	81042	High Street
D					
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

AMNSTM 2 2031 AM D1 v8.DAT

MODELLED								
All Vehicle	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	101	483				584
	B	11	0	169				180
	C	526	22	0				549
	D							
	E							
	F							
	G							
	TOTAL	537	123	651				1312

By Vehicle Type:

MODELLED								
Car	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	99	405				505
	B	11	0	153				164
	C	463	13	0				476
	D							
	E							
	F							
	G							
	TOTAL	474	113	558				1145

MODELLED								
LGV	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	2	51				53
	B	0	0	14				14
	C	57	9	0				66
	D							
	E							
	F							
	G							
	TOTAL	57	10	66				133

MODELLED								
HGV (PCU)	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	26				26
	B	0	0	2				2
	C	6	0	0				6
	D							
	E							
	F							
	G							
	TOTAL	6	0	27				34

PMNSTM 2 2031 PM D1 v8.DAT

MODELLED								
All Vehicle	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	195	373				568
	B	8	0	280				288
	C	512	48	0				560
	D							
	E							
	F							
	G							
	TOTAL	520	243	653				1416

By Vehicle Type:

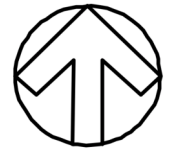
MODELLED								
Car	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	155	280				435
	B	8	0	187				195
	C	432	46	0				479
	D							
	E							
	F							
	G							
	TOTAL	441	202	467				1110

MODELLED								
LGV	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	40	5				45
	B	0	0	16				16
	C	40	1	0				41
	D							
	E							
	F							
	G							
	TOTAL	40	41	21				101

MODELLED								
HGV (PCU)	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	88				88
	B	0	0	77				77
	C	40	0	0				40
	D							
	E							
	F							
	G							
	TOTAL	40	0	165				205

2031 REFERENCE CASE (D1 SCENARIO)

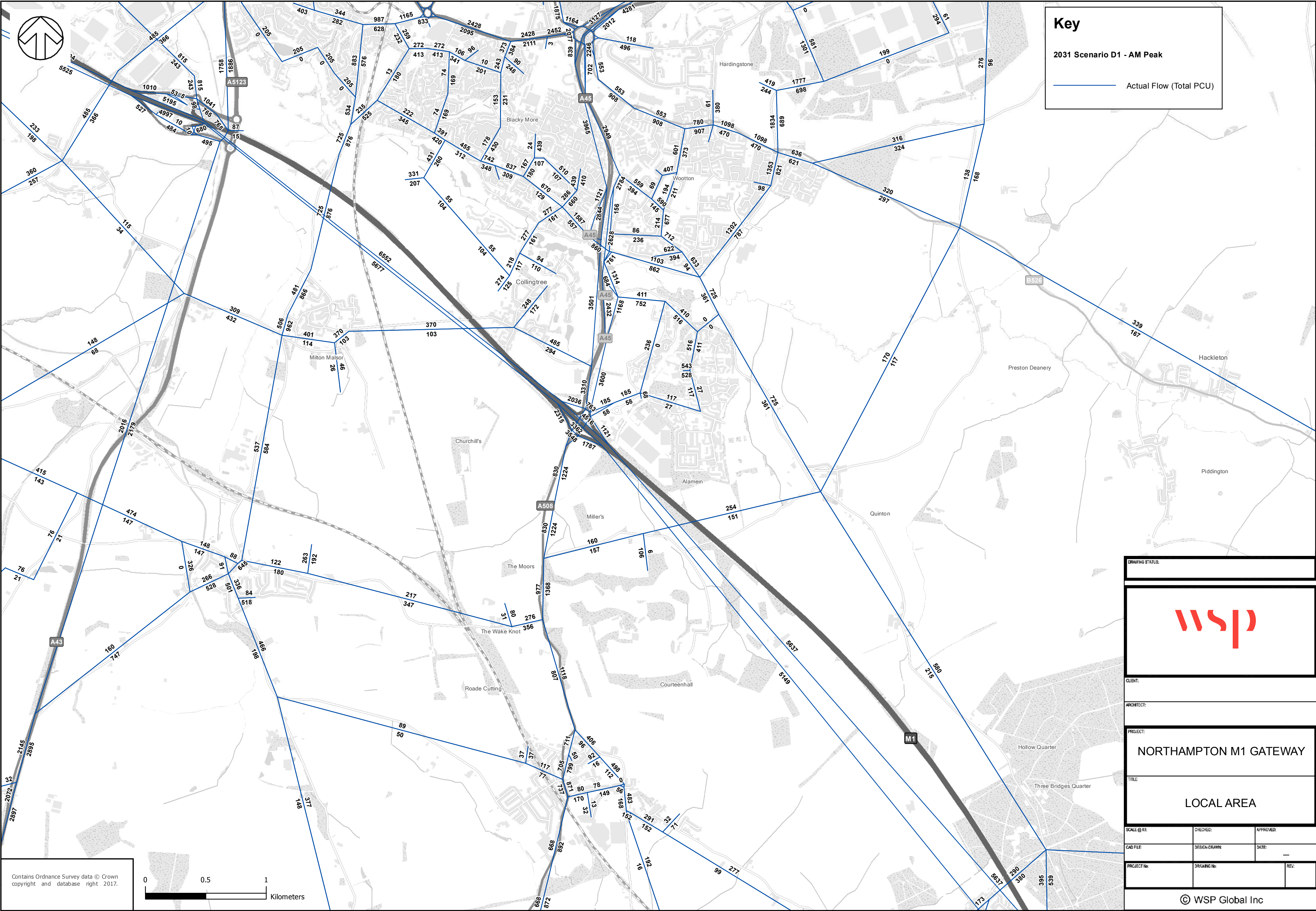
NSTM2 Actual Flow Plots (Ink flows)



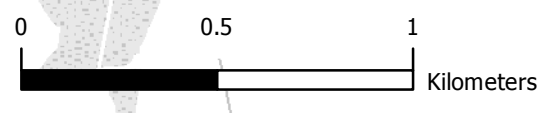
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2031 Scenario D1 - AM Peak

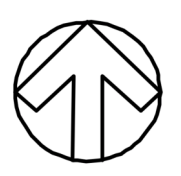
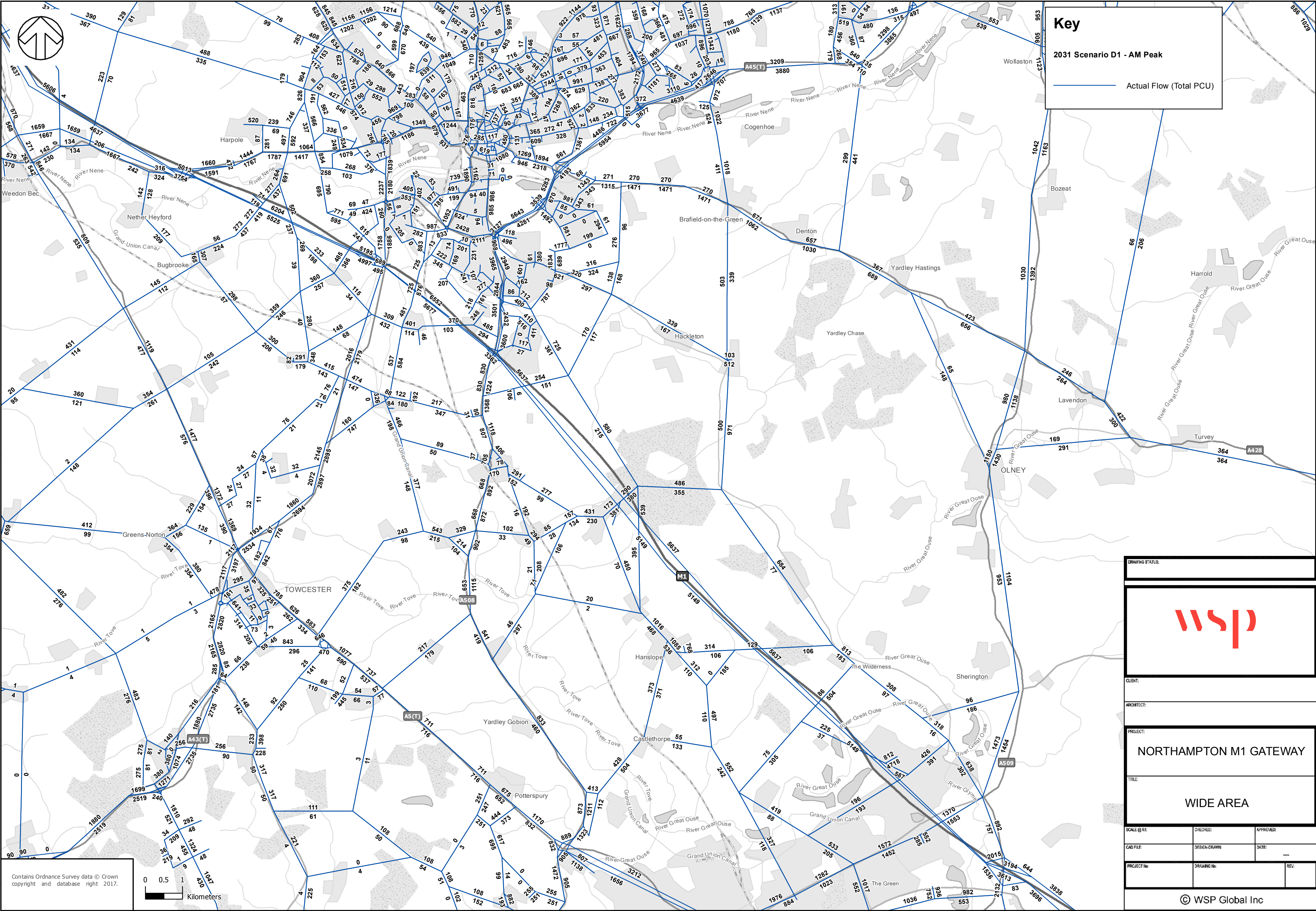
Actual Flow (Total PCU)



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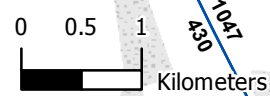


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2031 Scenario D1 - AM Peak

— Actual Flow (Total PCU)

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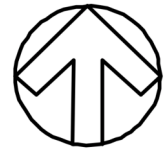
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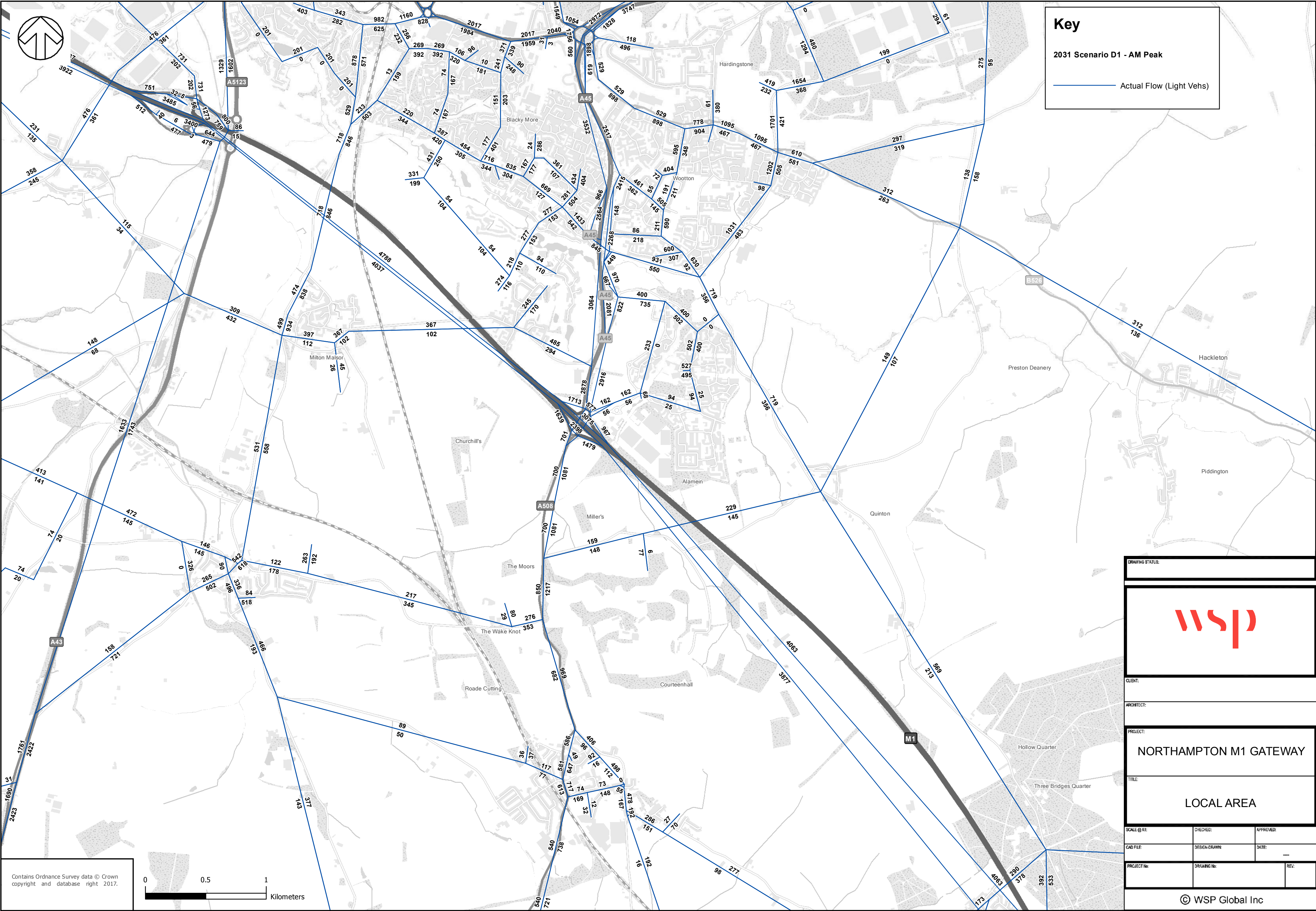
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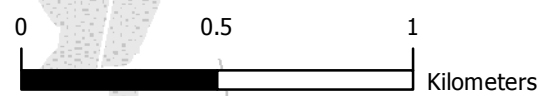
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2031 Scenario D1 - AM Peak

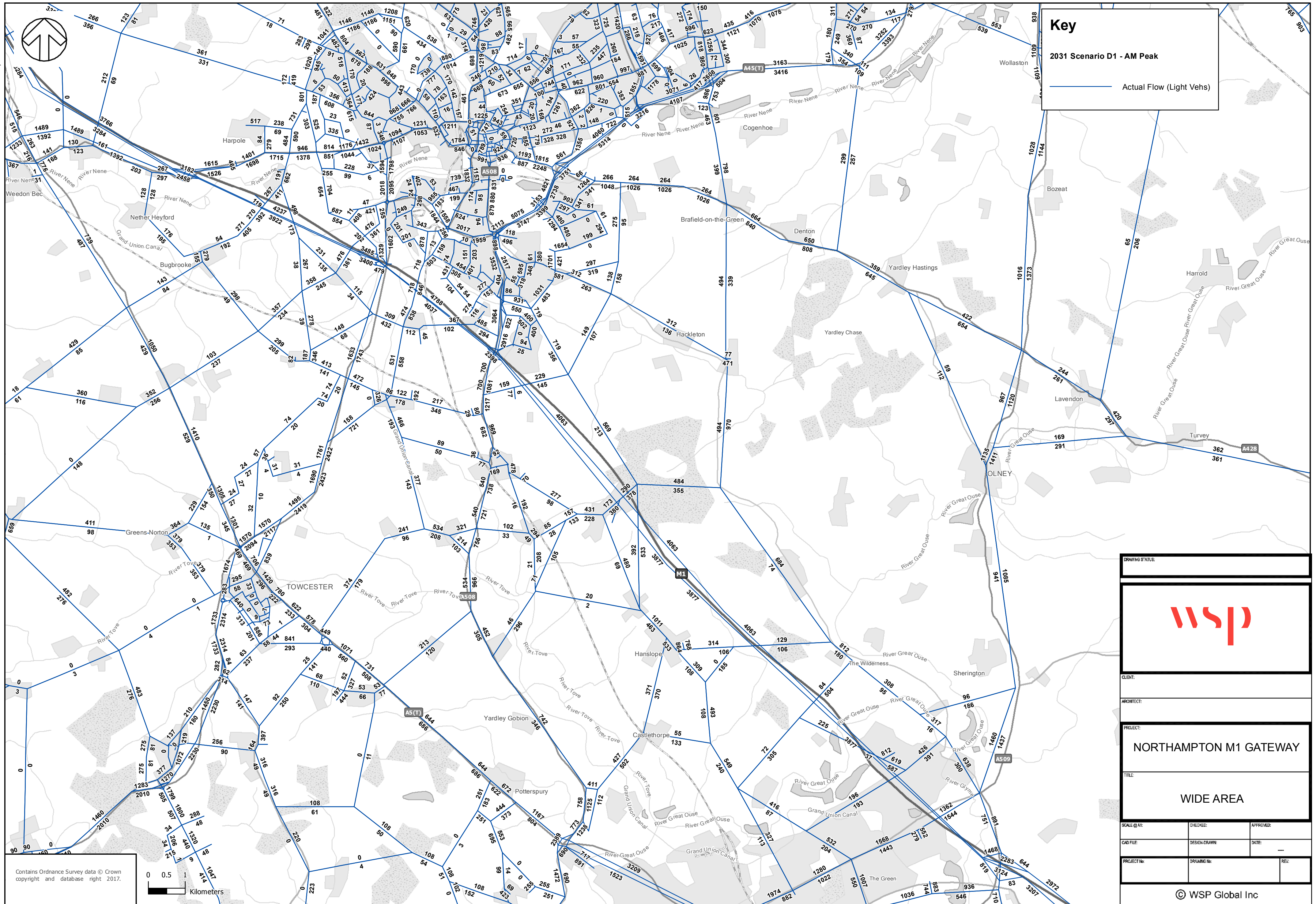
— Actual Flow (Light Vehs)



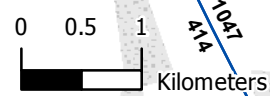
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2031 Scenario D1 - AM Peak

Actual Flow (Light Vehs)

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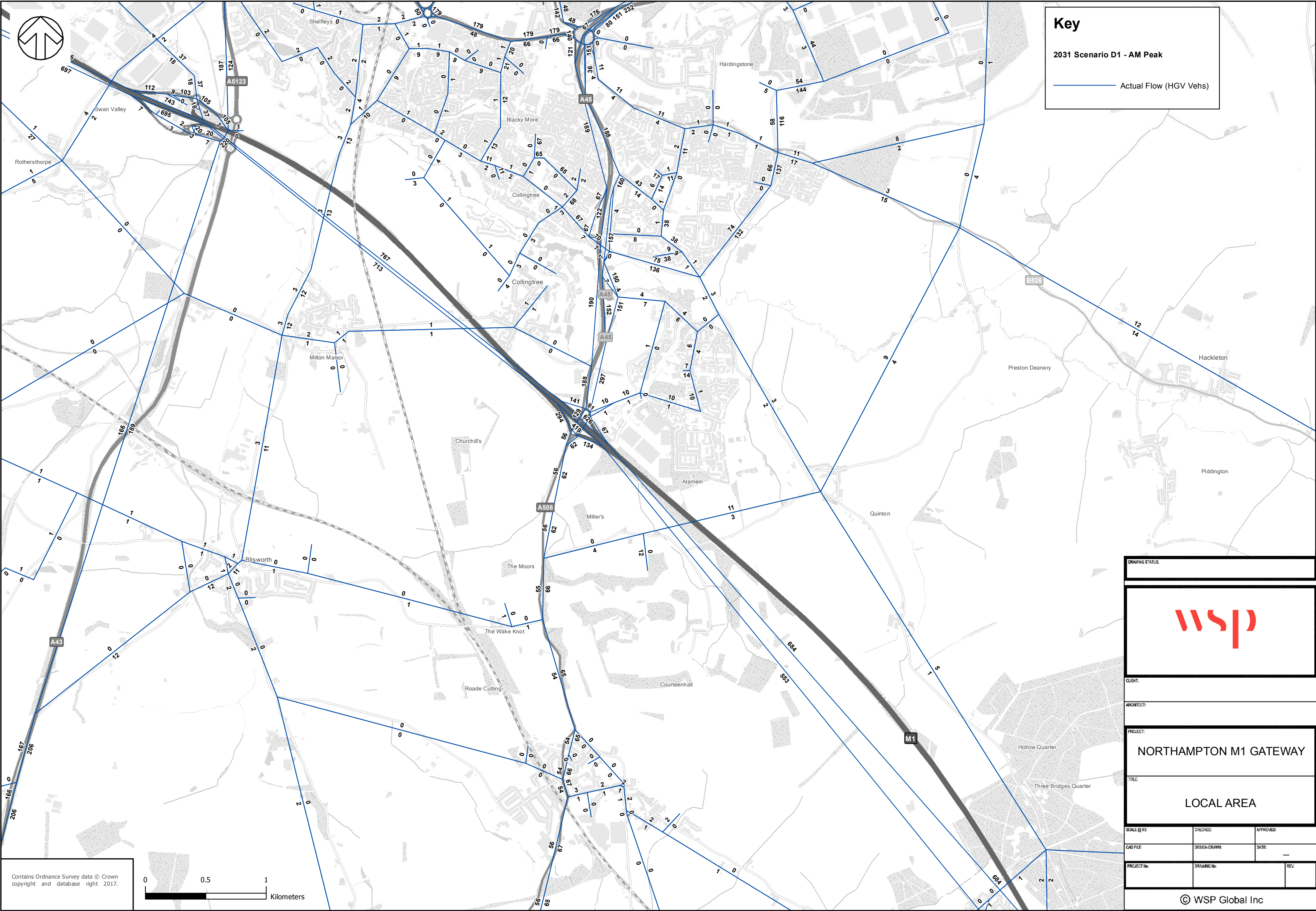
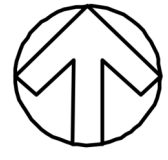
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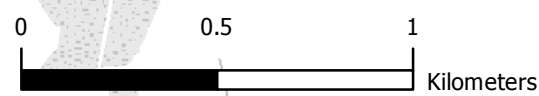


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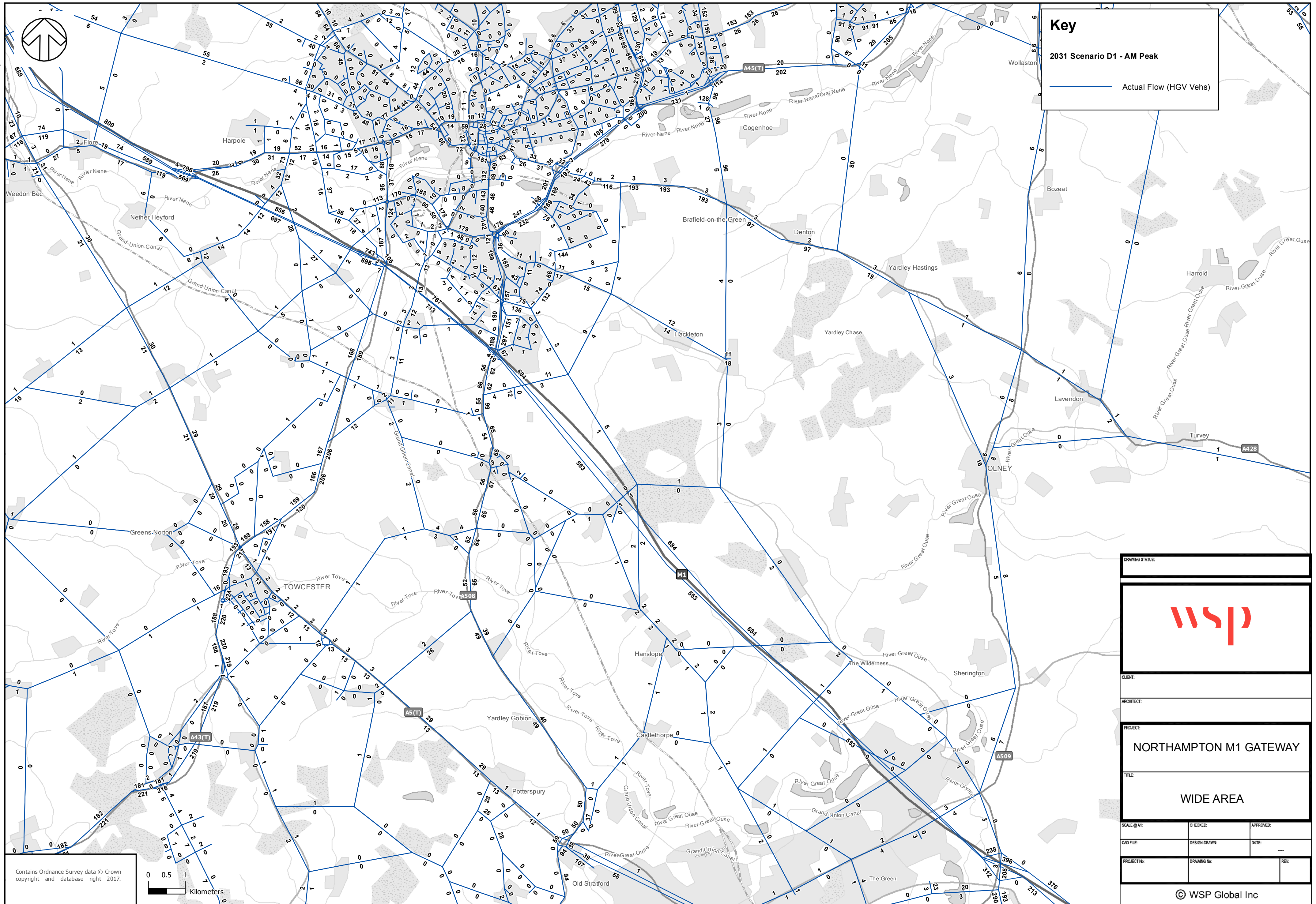
2031 Scenario D1 - AM Peak

— Actual Flow (HGV Vehs)

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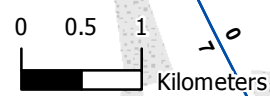


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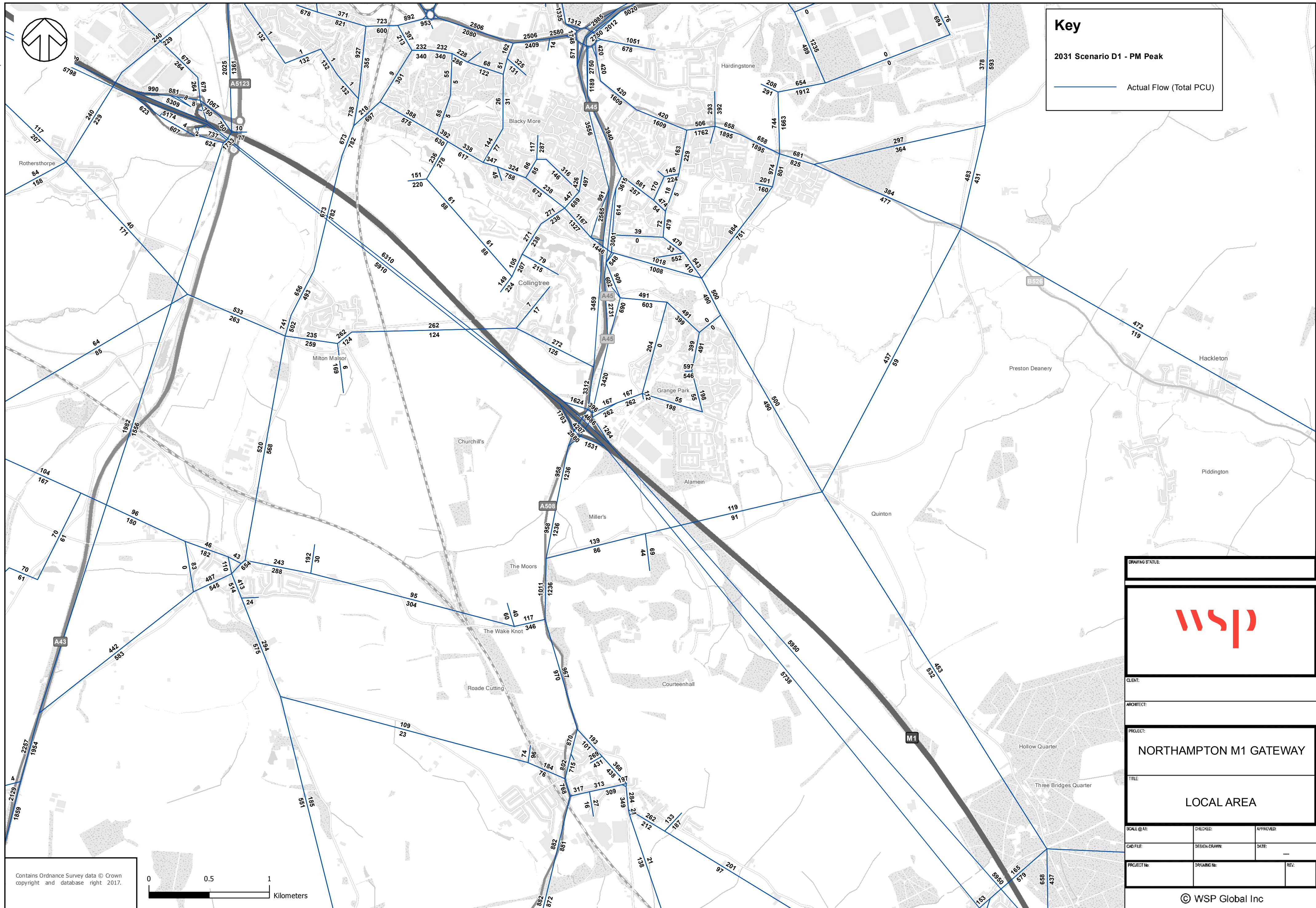
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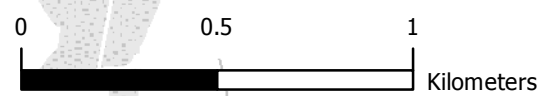


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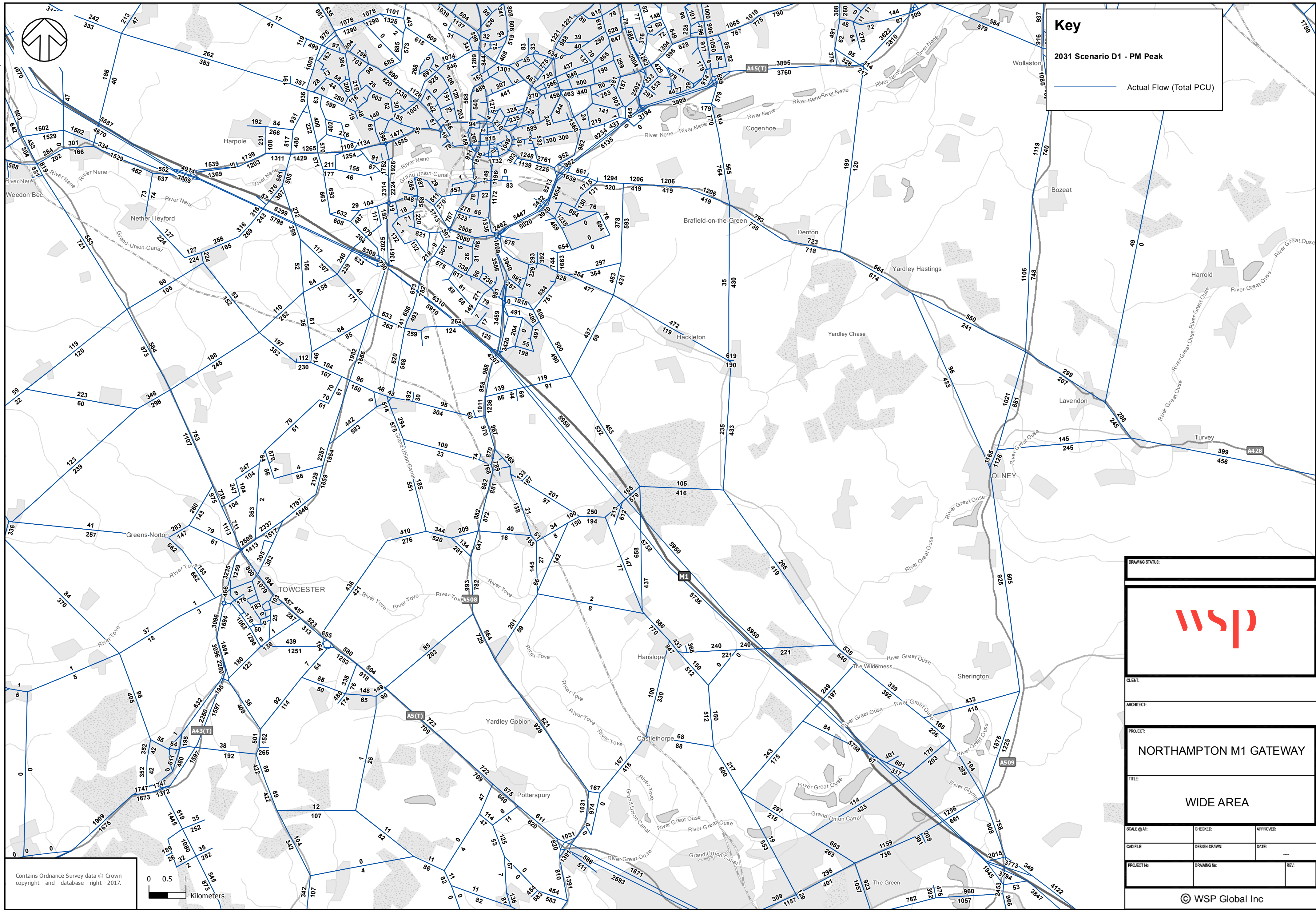
2031 Scenario D1 - PM Peak

— Actual Flow (Total PCU)

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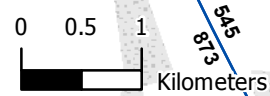


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2031 Scenario D1 - PM Peak

— Actual Flow (Total PCU)

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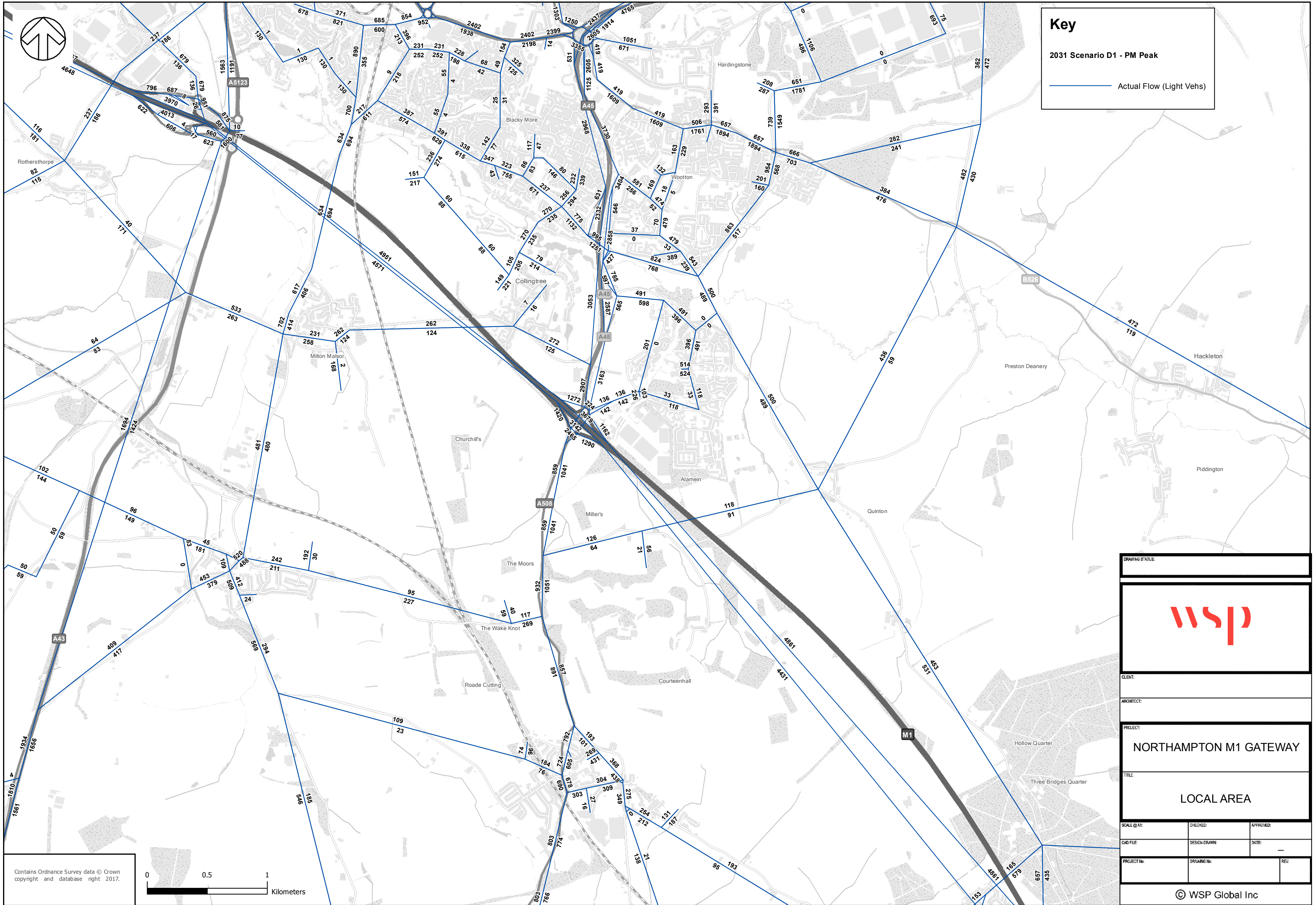
NORTHAMPTON M1 GATEWAY

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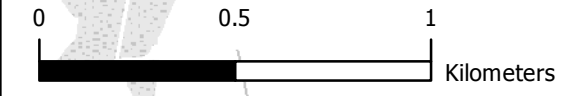


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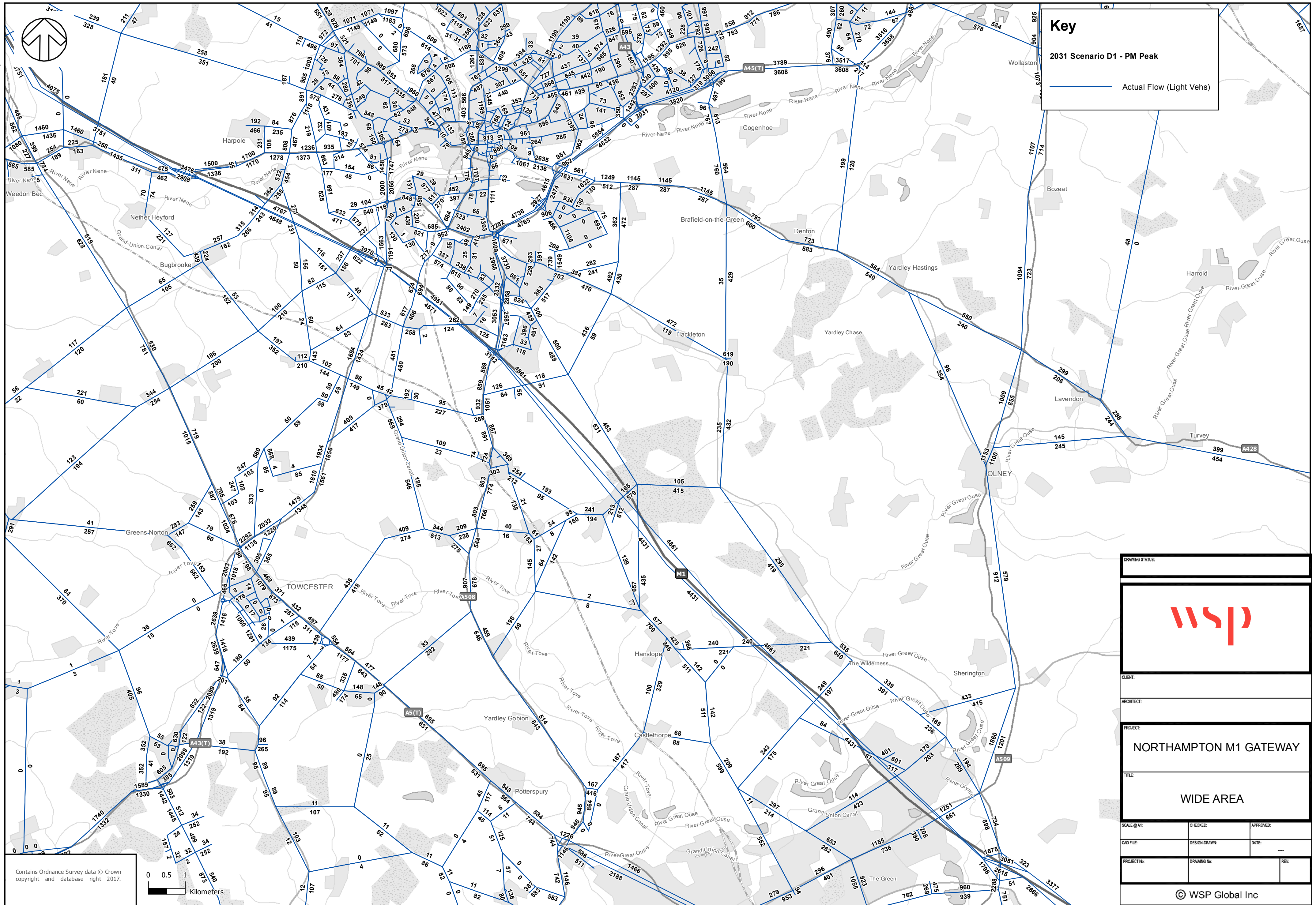
2031 Scenario D1 - PM Peak

— Actual Flow (Light Vehs)

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Key

2031 Scenario D1 - PM Peak

Actual Flow (Light Vehs)

DRAWING STATUS:



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ARCHITECT:

PROJECT:

NORTHAMPTON M1 GATEWAY

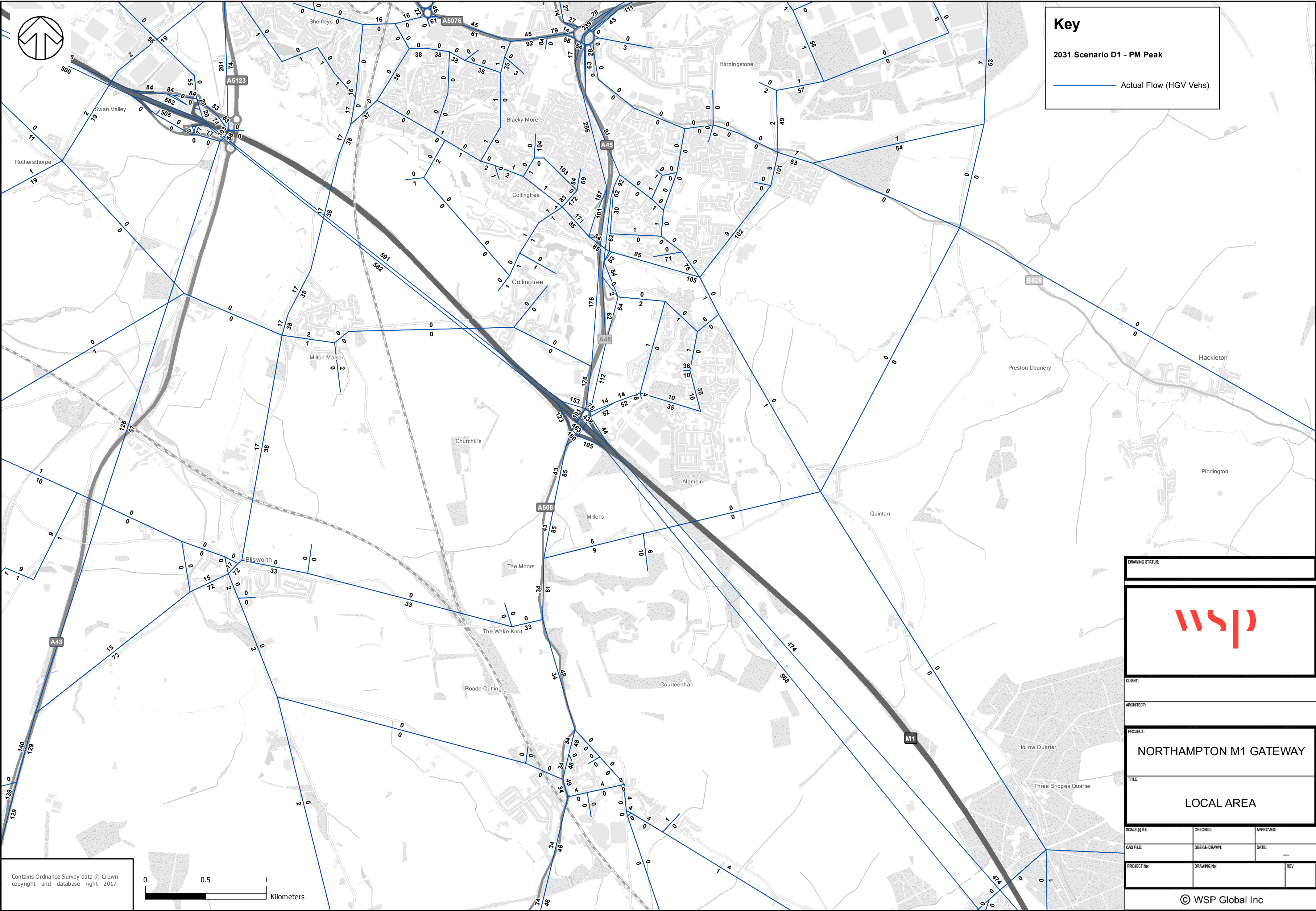
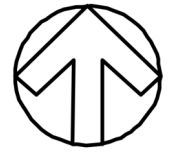
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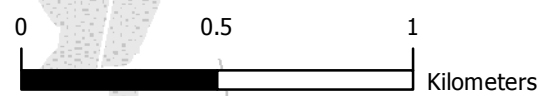


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2031 Scenario D1 - PM Peak

— Actual Flow (HGV Vehs)

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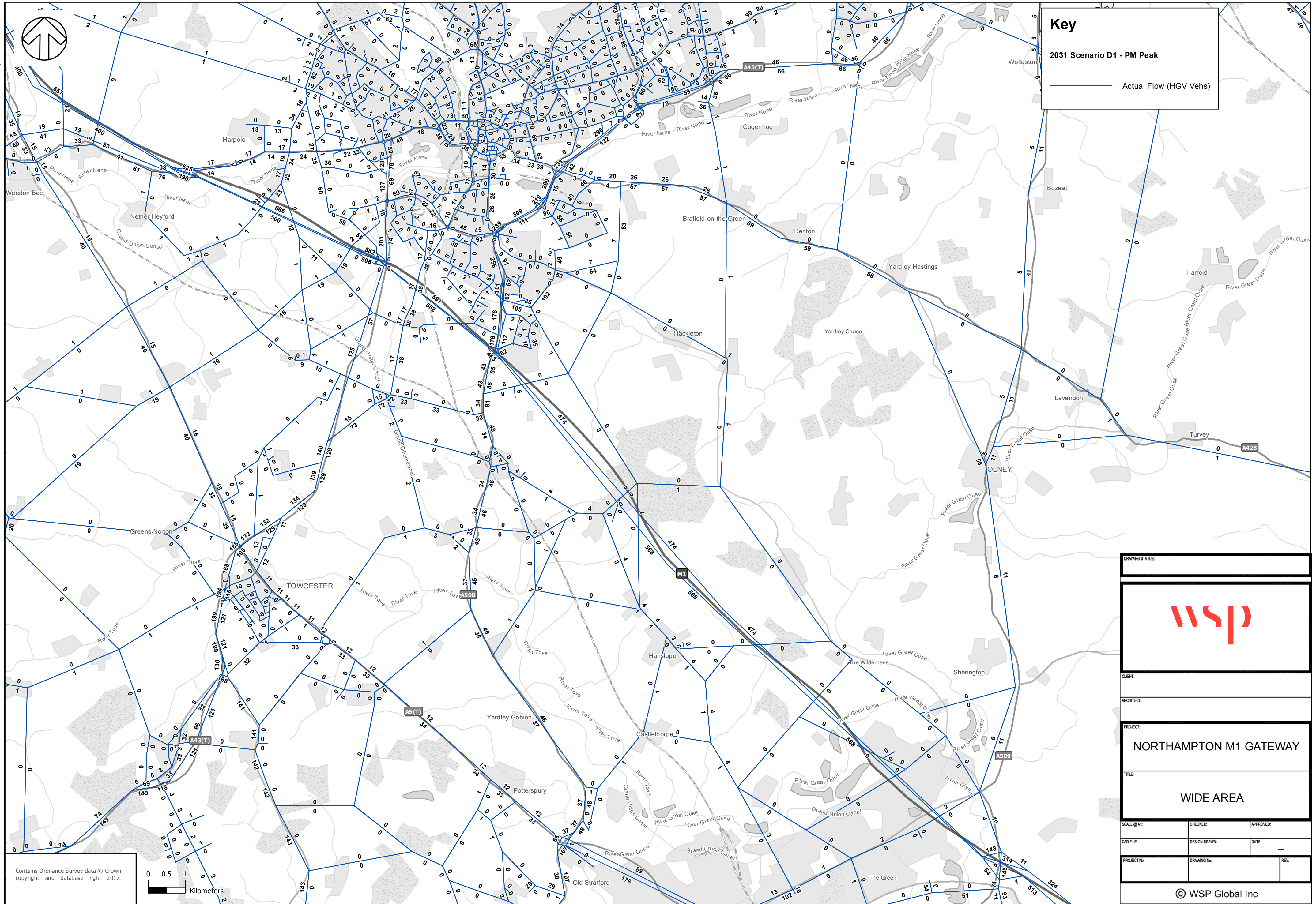
NORTHAMPTON M1 GATEWAY

TITLE:

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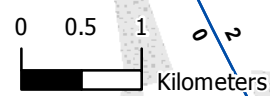


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2031 Scenario D1 - PM Peak

— Actual Flow (HGV Vehs)

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ARCHITECT:

PROJECT:

NORTHAMPTON M1 GATEWAY

TITLE:

WIDE AREA

SCALE @ A1:	CHECKED:	APPROVED:
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2031 DEVELOPMENT CASE
NO HIGHWAY MITIGATION (G1 SCENARIO)

NSTM2 Study Area Turning Counts
(junction 1 only)

Junction Turning Flows

Junction: M1 Junction 15



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	3355	3104	9220	2104	A45
B	27014	27015	3104	27014	Saxon Avenue
C	9116	9221	27015	9107	M1 East
D	1252	9117	9221	1252	A508
E	9106	9220	9117	9118	M1 West
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

AMNSTM 2 2031 AM G1 v10.DAT

MODELLED									
PCU	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	81	38	1000	767	1783			3669
	B	17	0	8	1	6			32
	C	1284	49	0	282	0			1615
	D	510	21	133	0	386			1050
	E	1558	118	0	599	2			2277
	F								
	G								
TOTAL	3450	226	1141	1649	2177			8643	

By Vehicle Type:

MODELLED									
Car	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	75	37	783	605	1179			2679
	B	17	0	4	1	6			28
	C	967	22	0	207	0			1196
	D	357	18	82	0	208			665
	E	1298	116	0	451	1			1866
	F								
	G								
TOTAL	2714	193	869	1264	1394			6434	

MODELLED									
LGV	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	6	1	105	59	56			227
	B	0	0	2	0	0			2
	C	76	1	0	13	0			90
	D	43	0	1	0	12			56
	E	74	2	0	14	0			90
	F								
	G								
TOTAL	199	4	108	86	68			465	

MODELLED									
HGV (PCU)	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	112	103	548			763
	B	0	0	2	0	0			2
	C	241	26	0	62	0			329
	D	110	3	50	0	166			329
	E	186	0	0	134	1			321
	F								
	G								
TOTAL	537	29	164	299	715			1744	

PMNSTM 2 2031 PM DS G1 v10.DAT

MODELLED									
PCU	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	66	87	1007	902	1242			3304
	B	28	0	132	12	90			262
	C	1144	90	0	229	0			1463
	D	1042	32	152	0	497			1723
	E	1207	107	0	351	0			1665
	F								
	G								
TOTAL	3487	316	1291	1494	1829			8417	

By Vehicle Type:

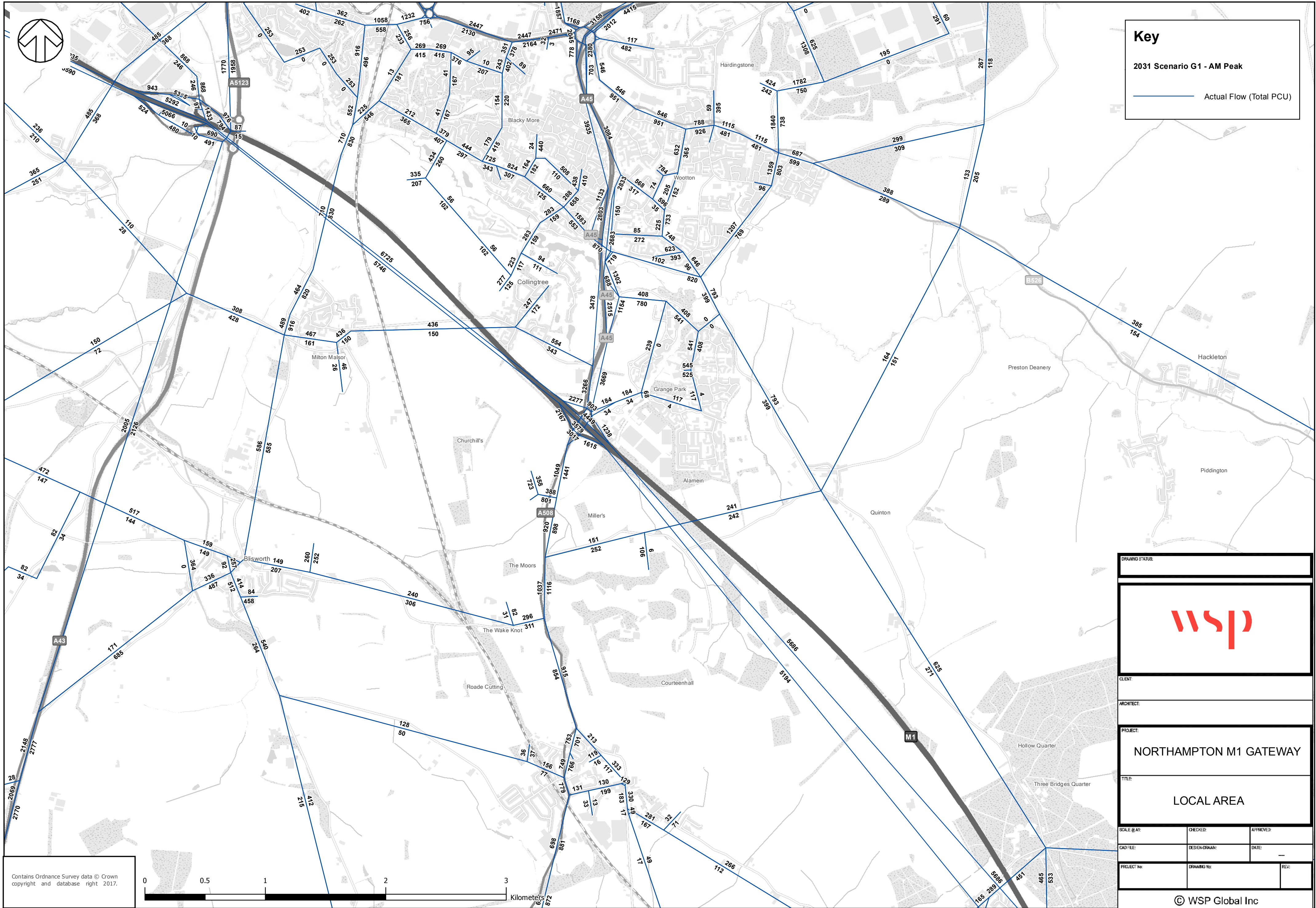
MODELLED									
Car	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	63	83	916	715	1130			2907
	B	27	0	86	10	15			138
	C	854	88	0	135	0			1077
	D	904	24	97	0	337			1362
	E	933	60	0	189	0			1182
	F								
	G								
TOTAL	2781	255	1099	1049	1482			6666	

MODELLED									
LGV	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	3	2	38	20	26			89
	B	1	0	0	0	1			2
	C	66	2	0	7	0			75
	D	35	1	4	0	20			60
	E	55	2	0	16	0			73
	F								
	G								
TOTAL	160	7	42	43	47			299	

MODELLED									
HGV (PCU)	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	2	53	167	86			308
	B	0	0	46	2	74			122
	C	224	0	0	87	0			311
	D	103	7	51	0	140			301
	E	219	45	0	146	0			410
	F								
	G								
TOTAL	546	54	150	402	300			1452	

2031 DEVELOPMENT CASE
NO HIGHWAY MITIGATION (G1 SCENARIO)

NSTM2 Actual Flow Plots (link flows)




Key

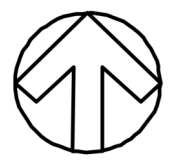
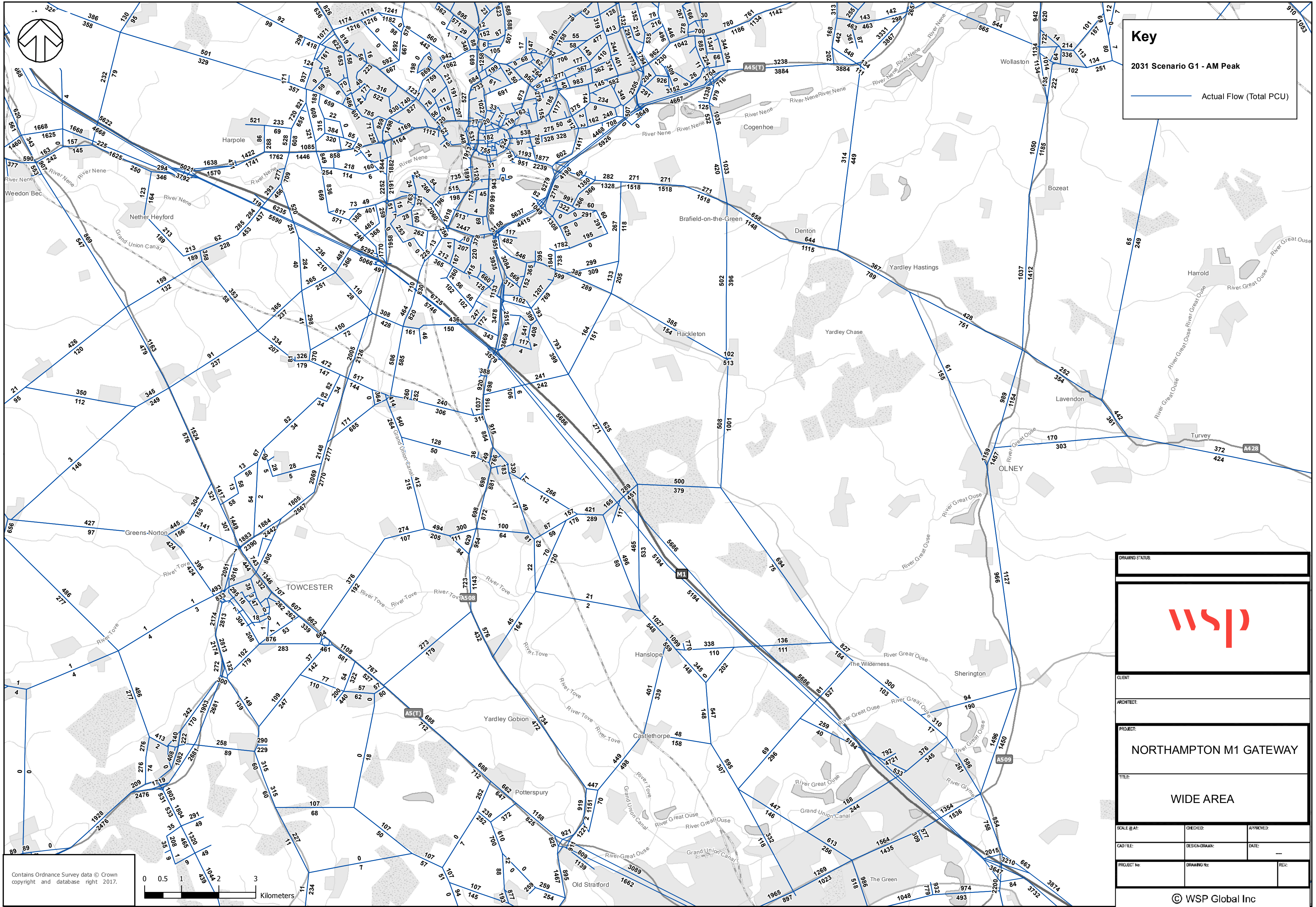
2031 Scenario G1 - AM Peak

— Actual Flow (Total PCU)

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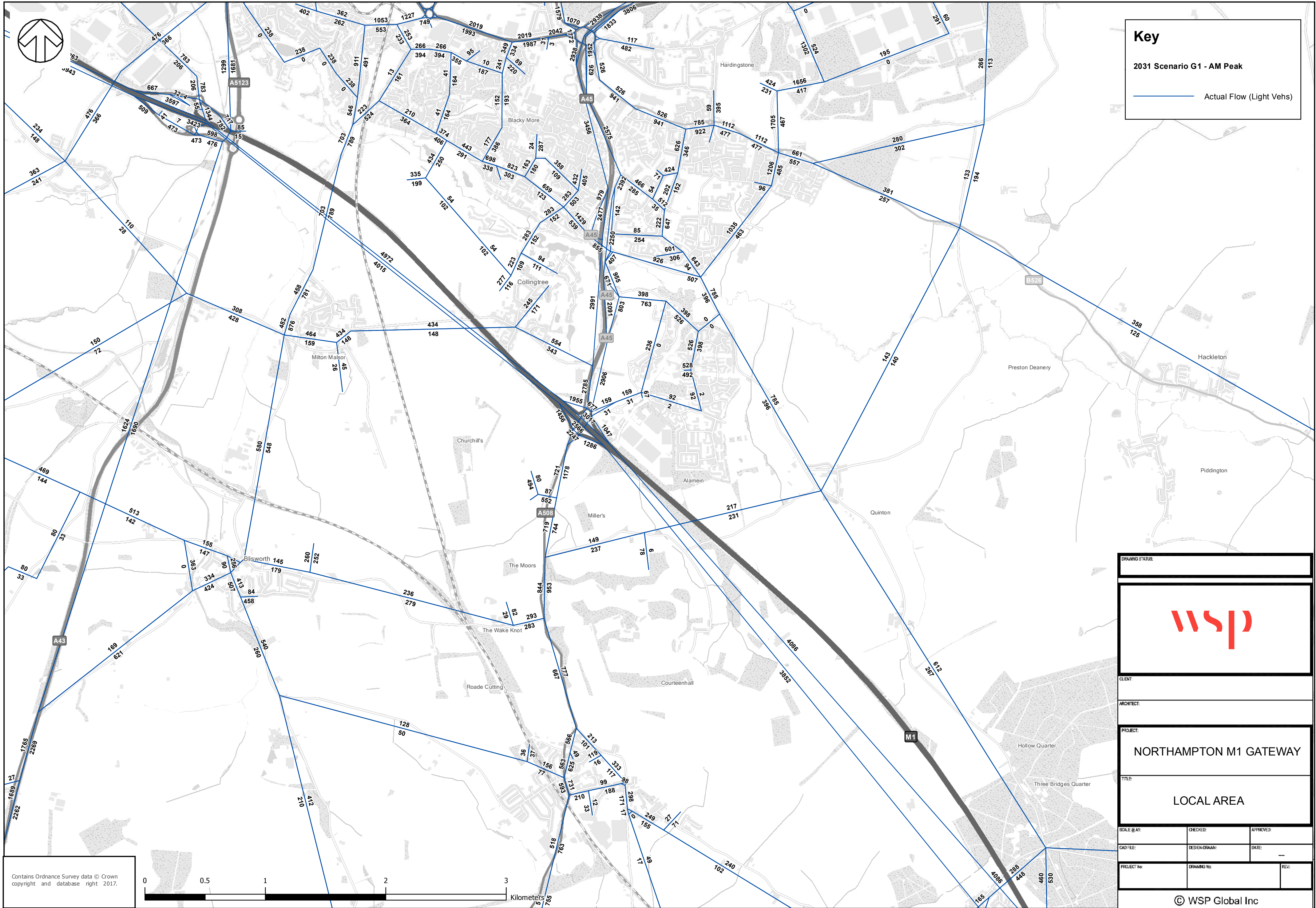
2031 Scenario G1 - AM Peak

— Actual Flow (Total PCU)

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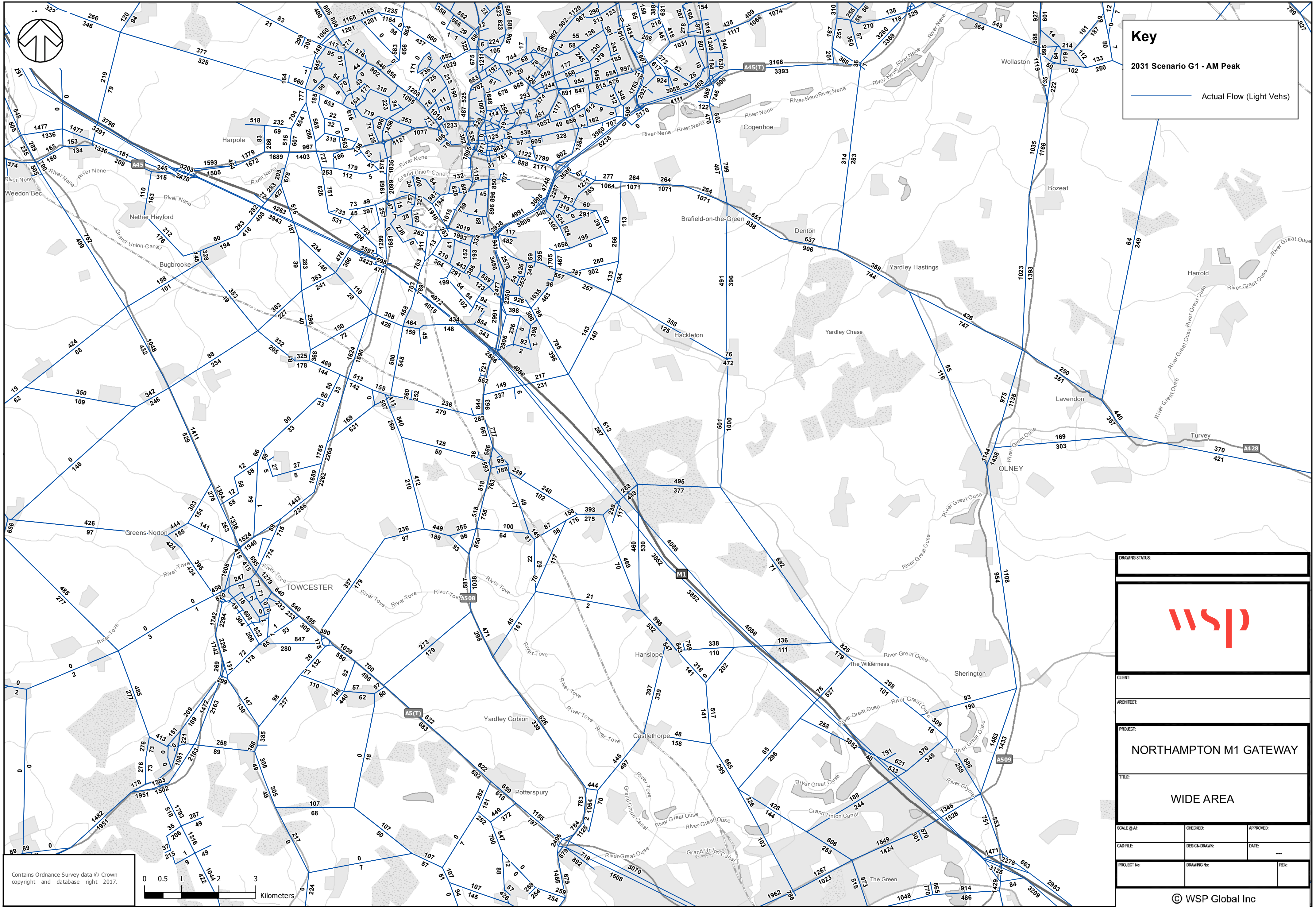
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2031 Scenario G1 - AM Peak

— Actual Flow (Light Vehs)

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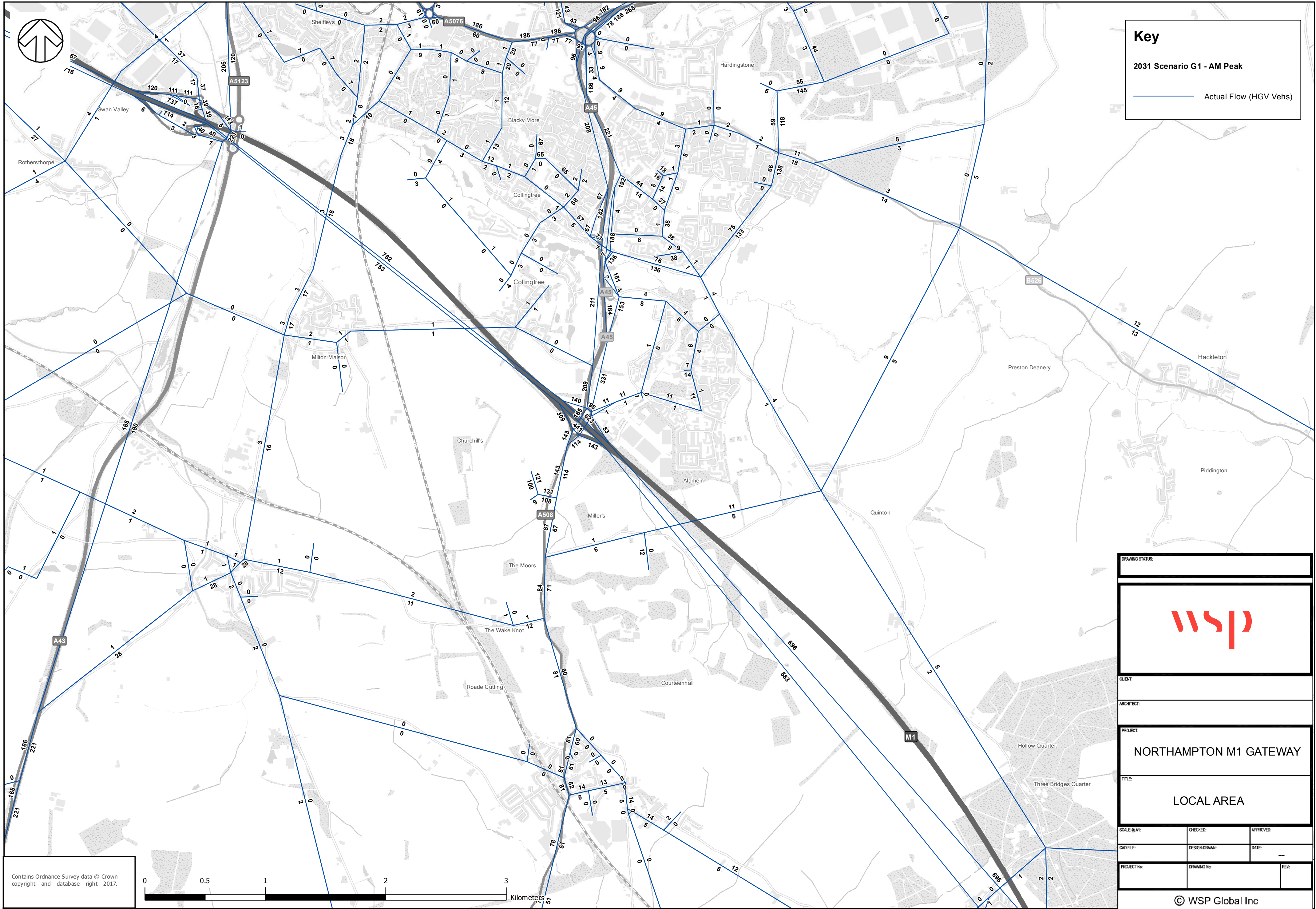
2031 Scenario G1 - AM Peak

— Actual Flow (Light Vehs)

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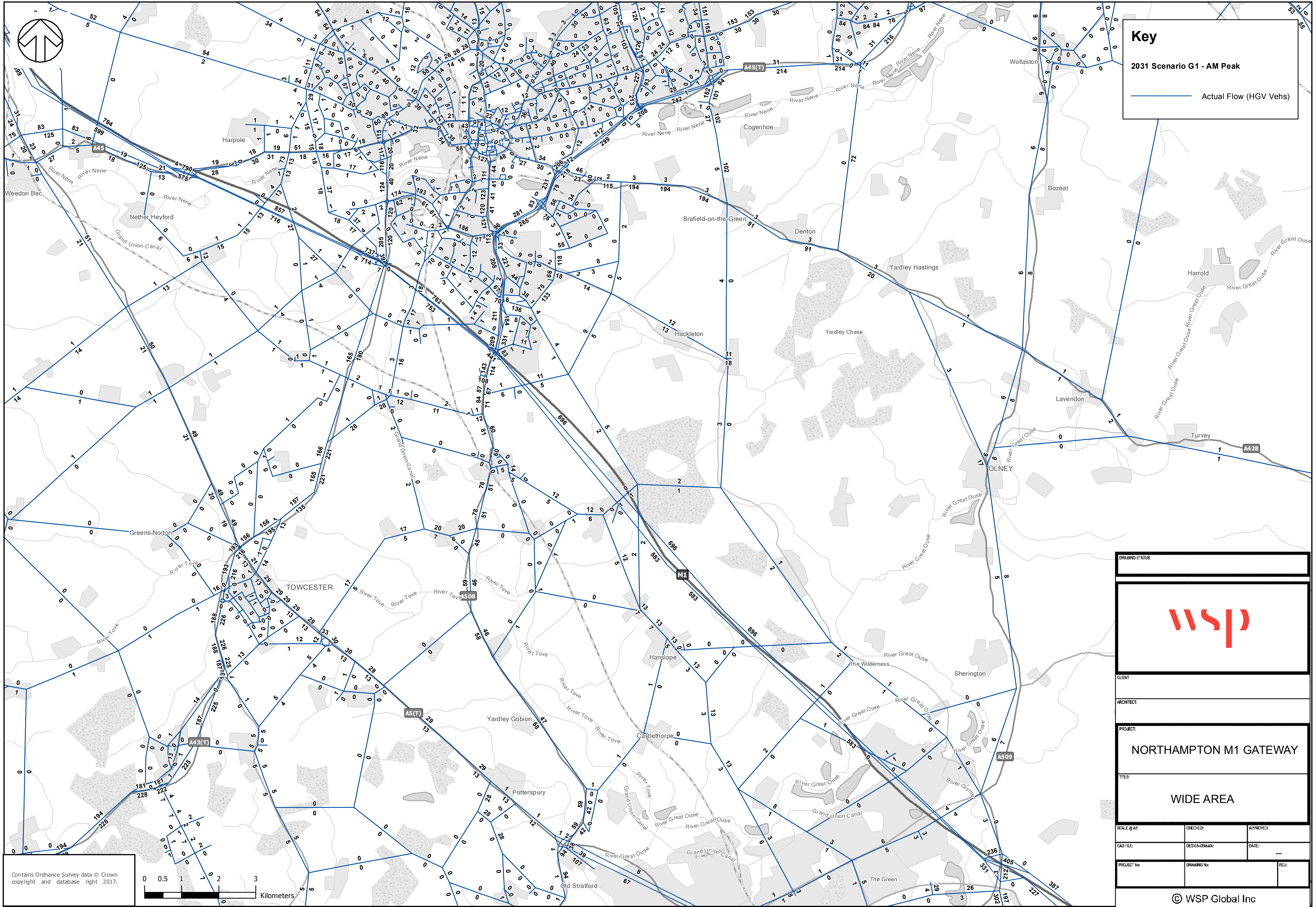
2031 Scenario G1 - AM Peak

— Actual Flow (HG1 Vehs)

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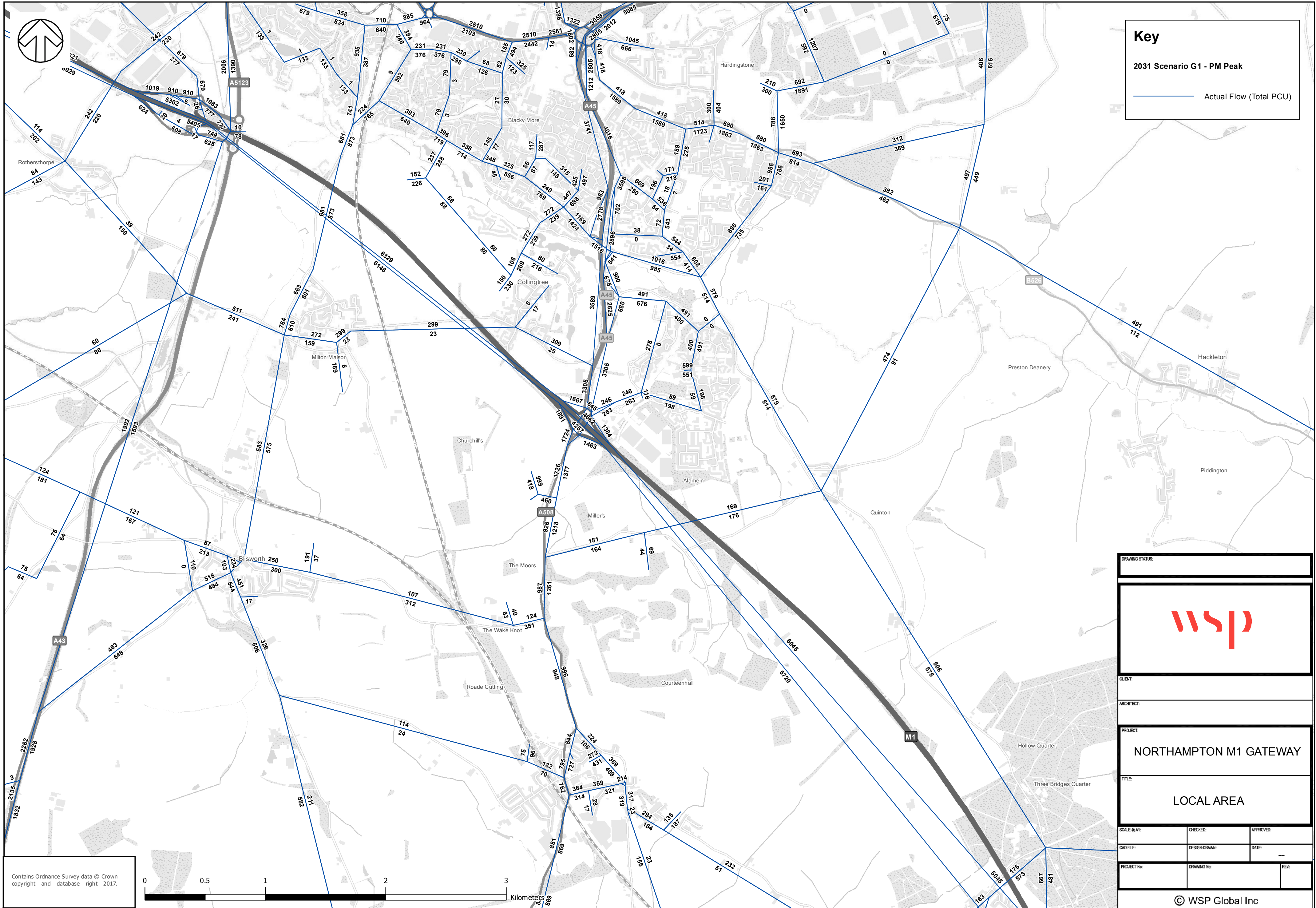
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2031 Scenario G1 - AM Peak

— Actual Flow (HGV Vehs)

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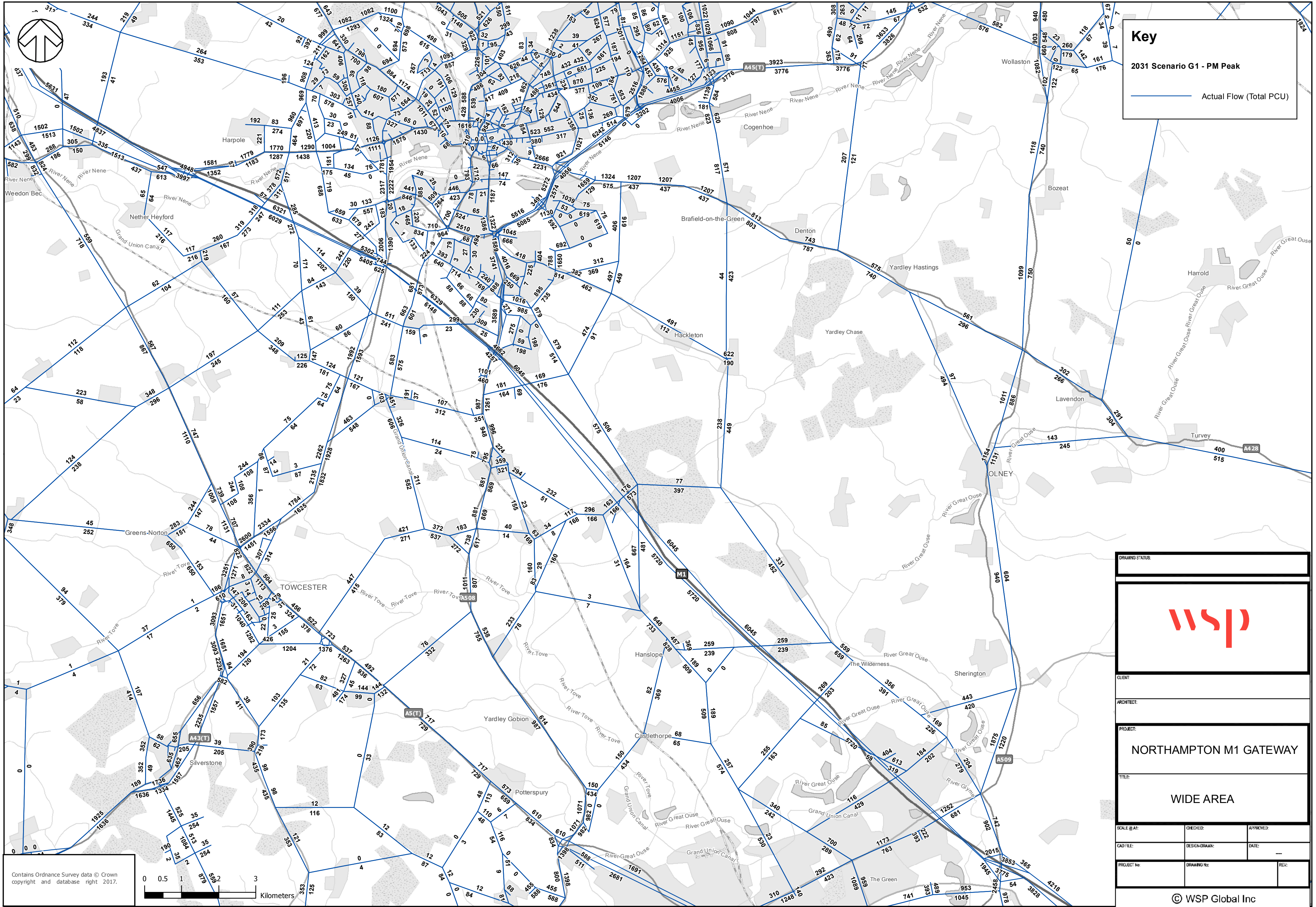
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2031 Scenario G1 - PM Peak

— Actual Flow (Total PCU)

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2031 Scenario G1 - PM Peak

— Actual Flow (Total PCU)

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NORTHAMPTON M1 GATEWAY

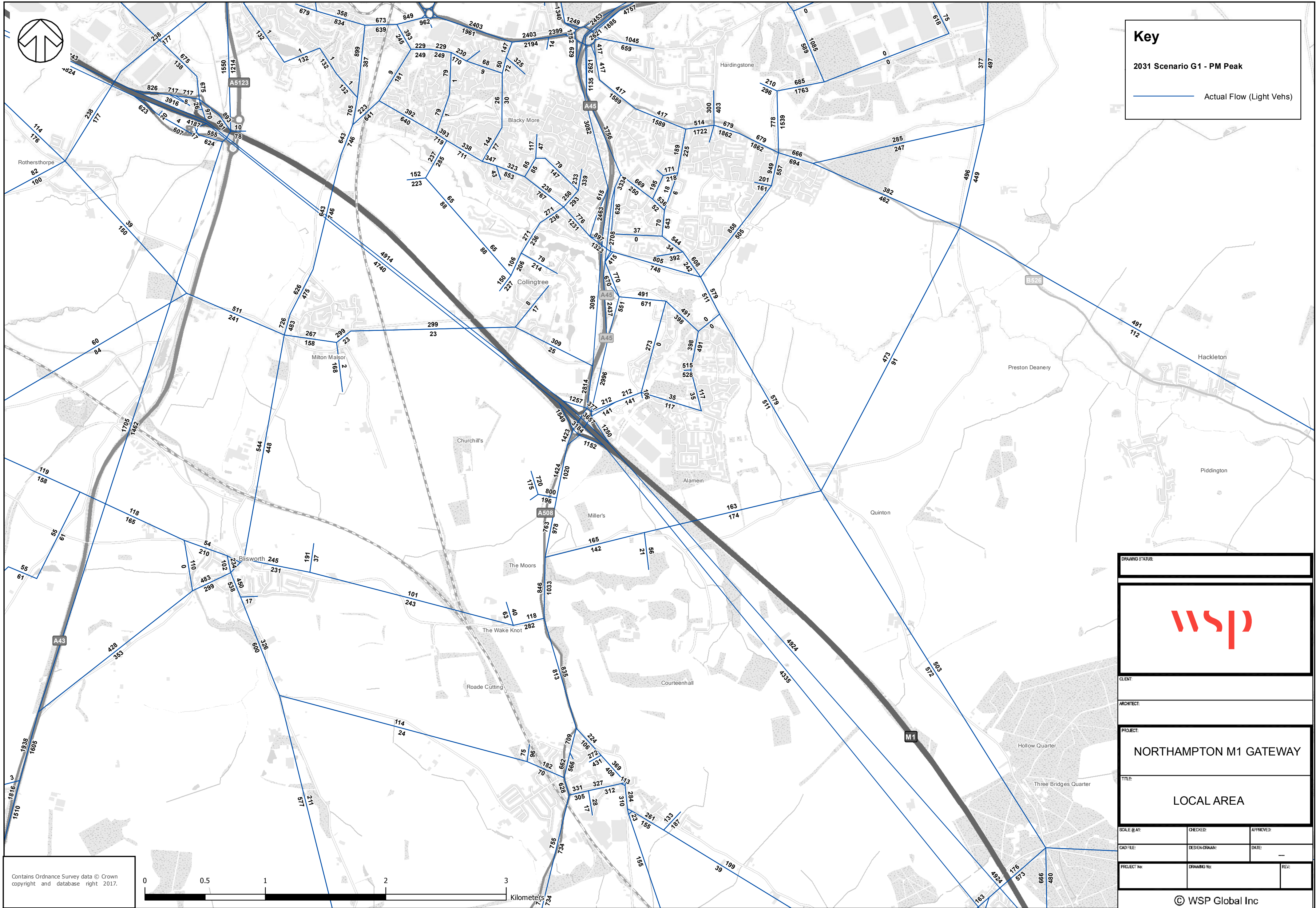
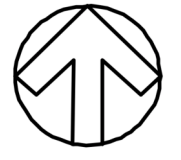
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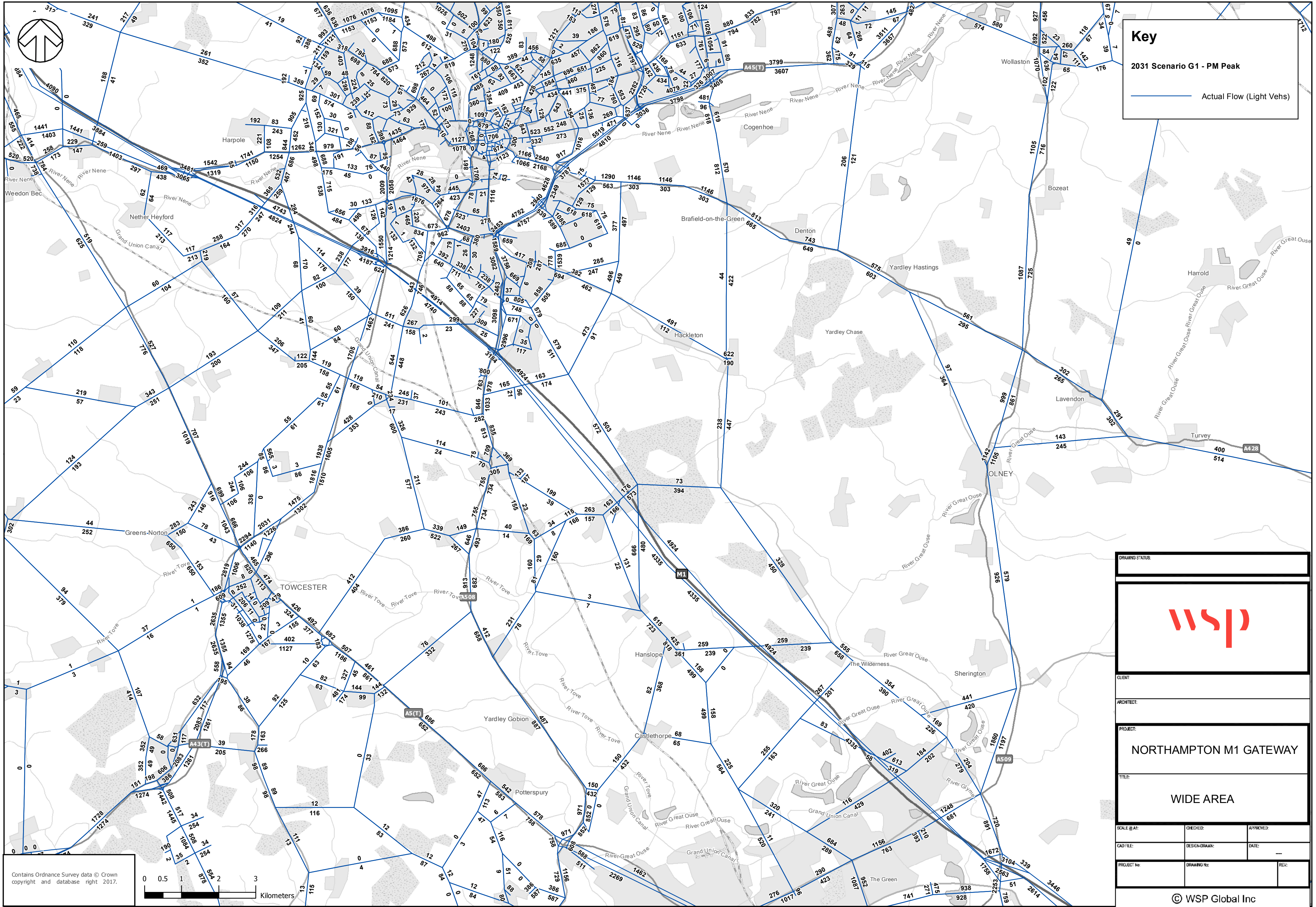
2031 Scenario G1 - PM Peak

— Actual Flow (Light Vehs)

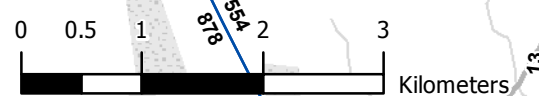
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2031 Scenario G1 - PM Peak

— Actual Flow (Light Vehs)

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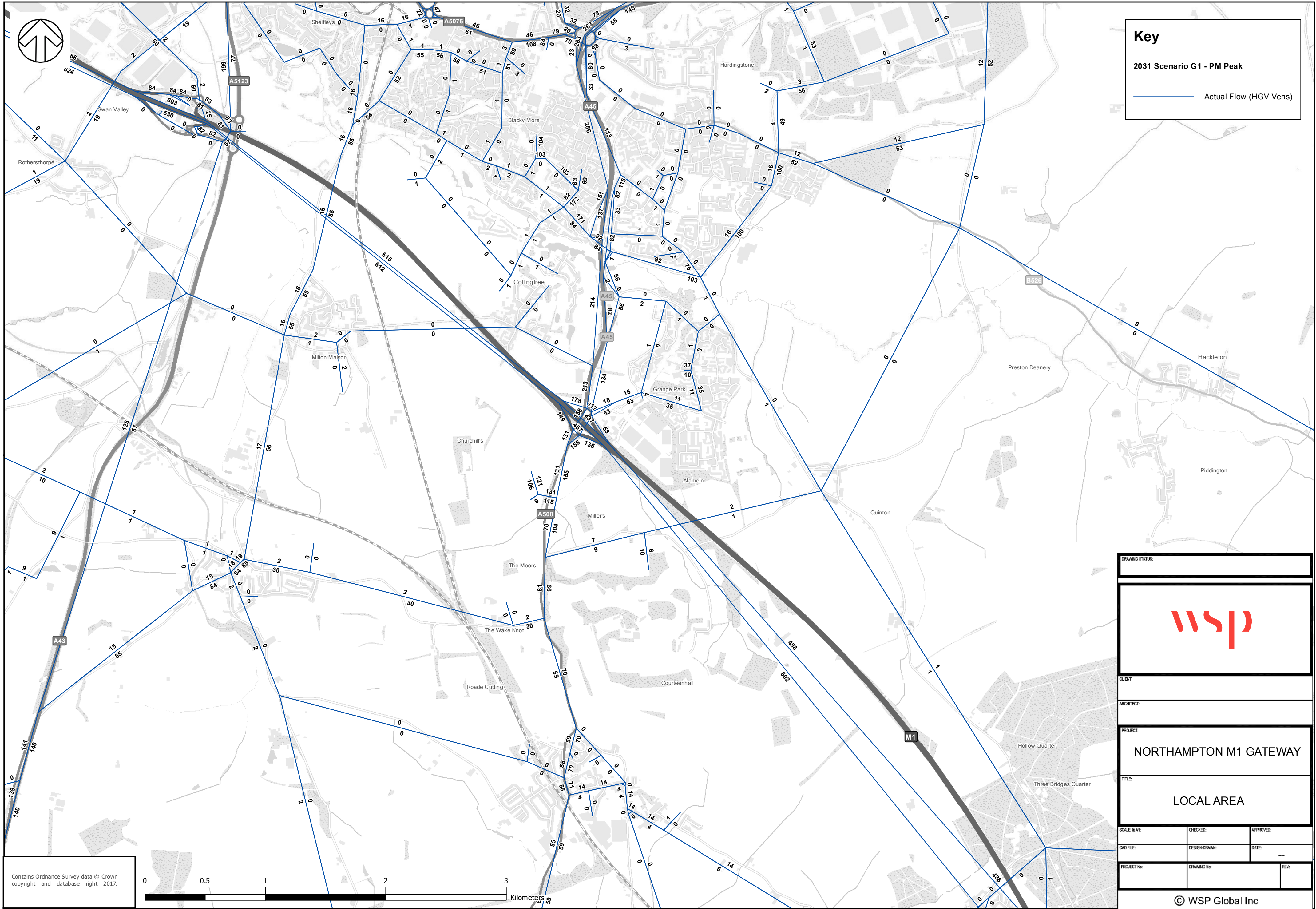
NORTHAMPTON M1 GATEWAY

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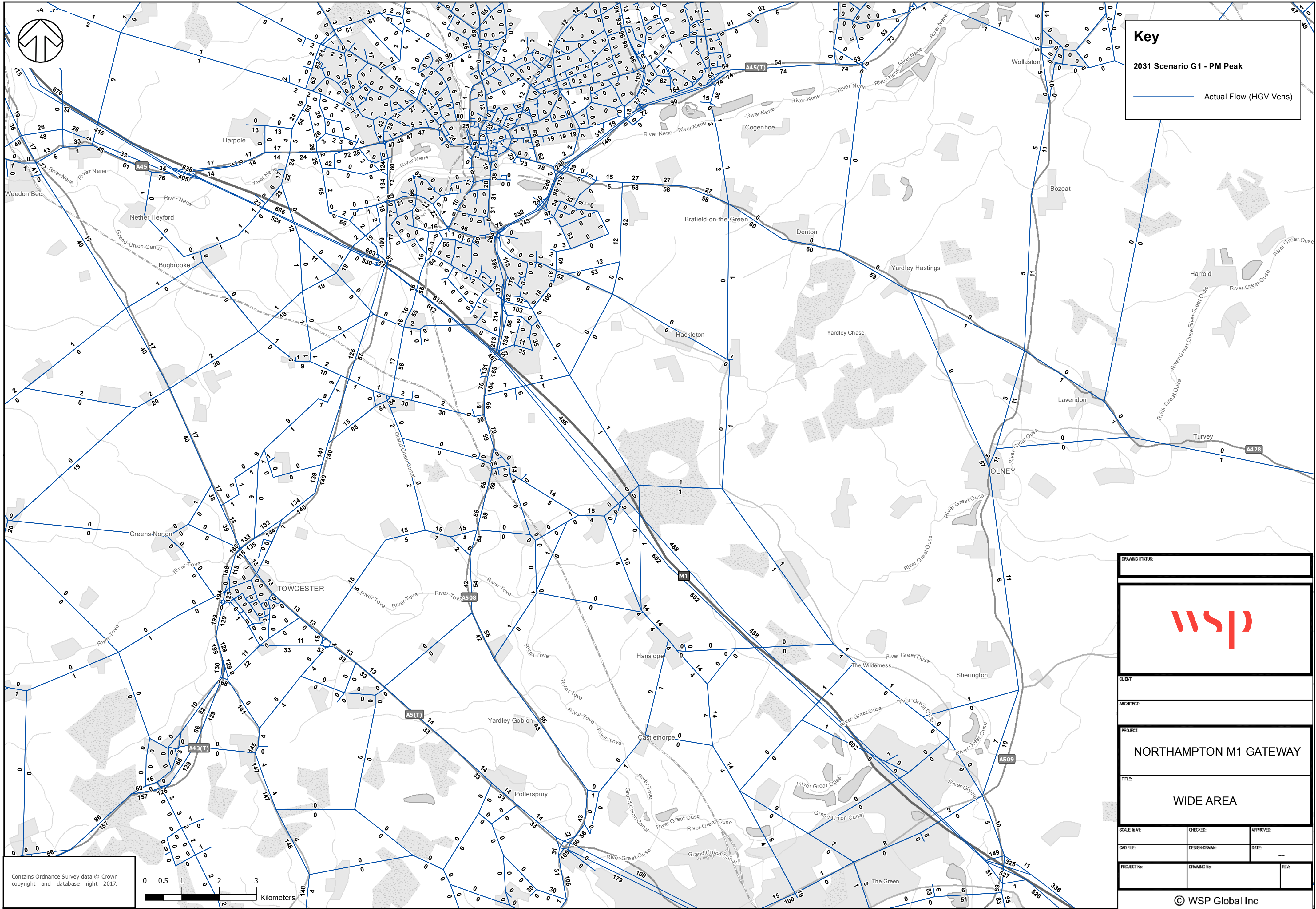
2031 Scenario G1 - PM Peak

— Actual Flow (HGV Vehs)

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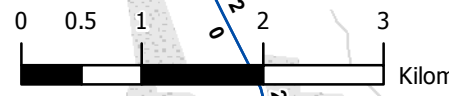



Key

2031 Scenario G1 - PM Peak

— Actual Flow (HGV Vehs)

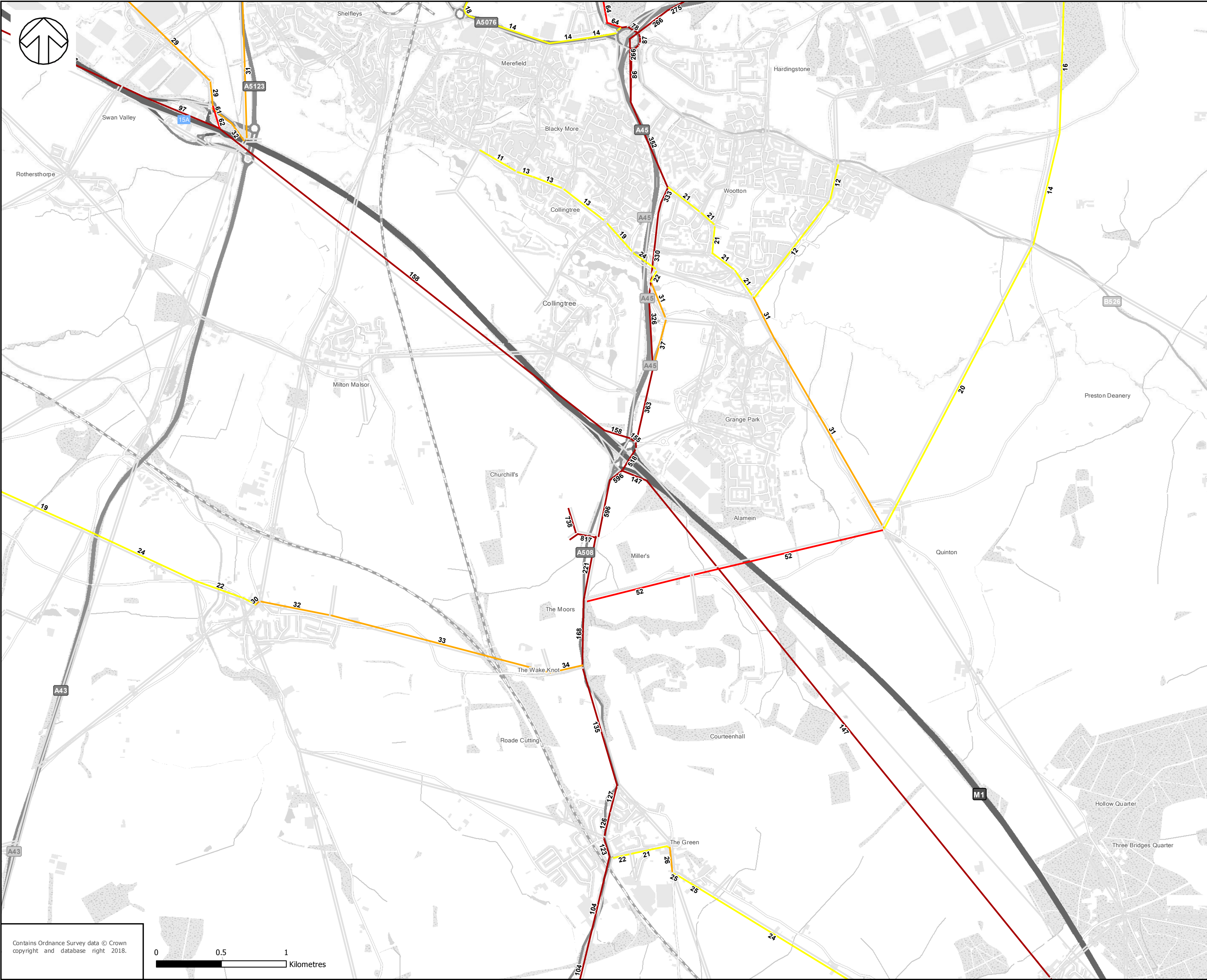
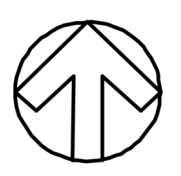
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2031 DEVELOPMENT CASE
NO HIGHWAY MITIGATION (G1 SCENARIO)

NSTM2 Select Link Analysis



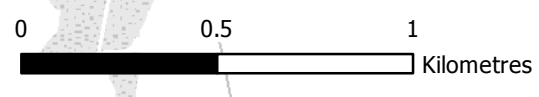
Key

2031 Scenario G1


AM Arrivals (PCU)

- 0 - 10
- 10 - 25
- 25 - 50
- 50 - 75
- > 75

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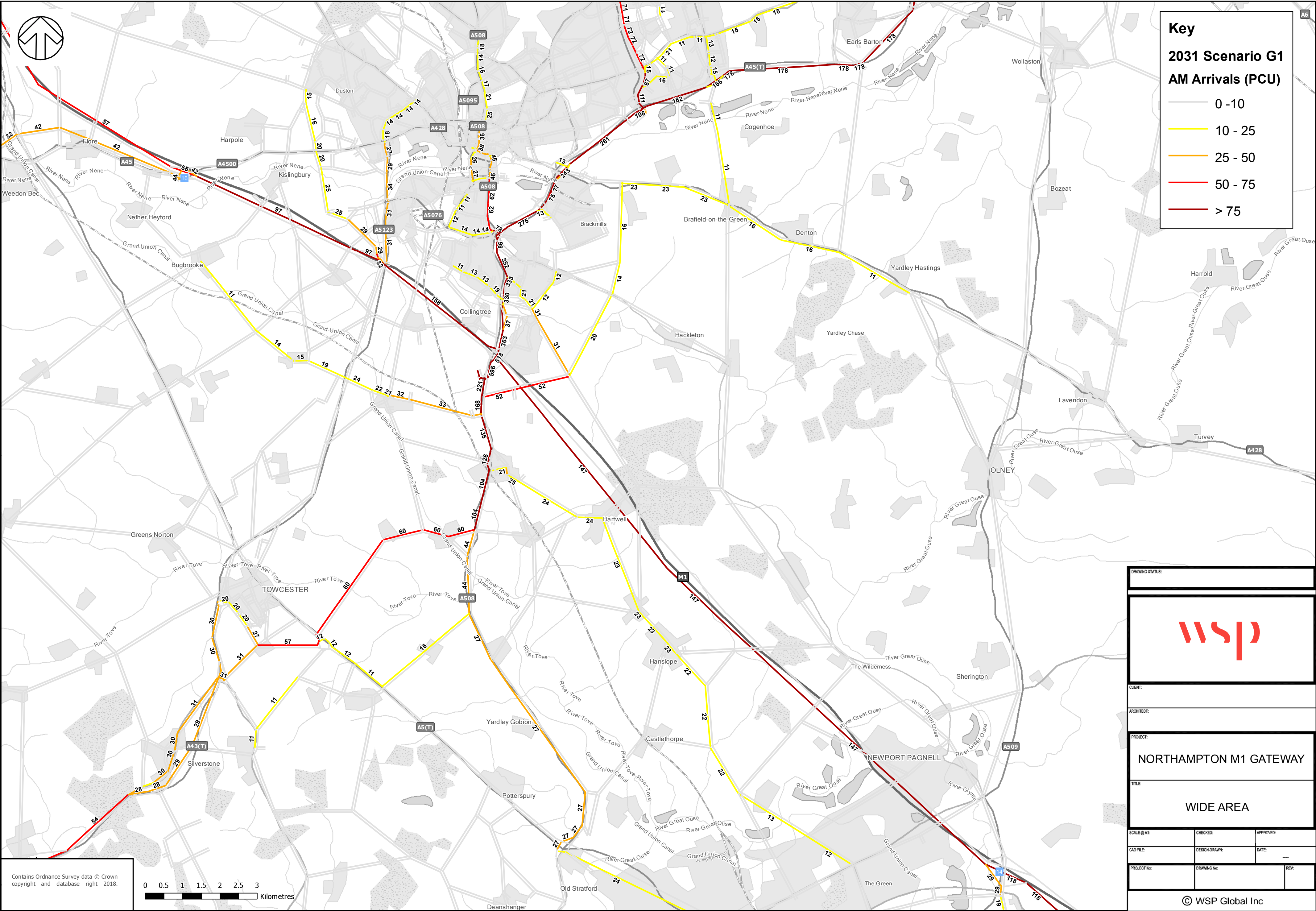
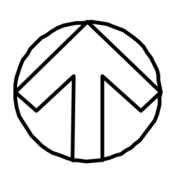
NORTHAMPTON M1 GATEWAY

TITLE:

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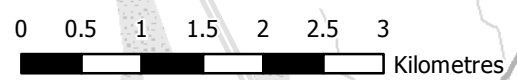
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2031 Scenario G1

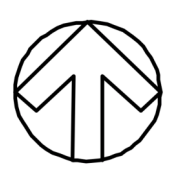
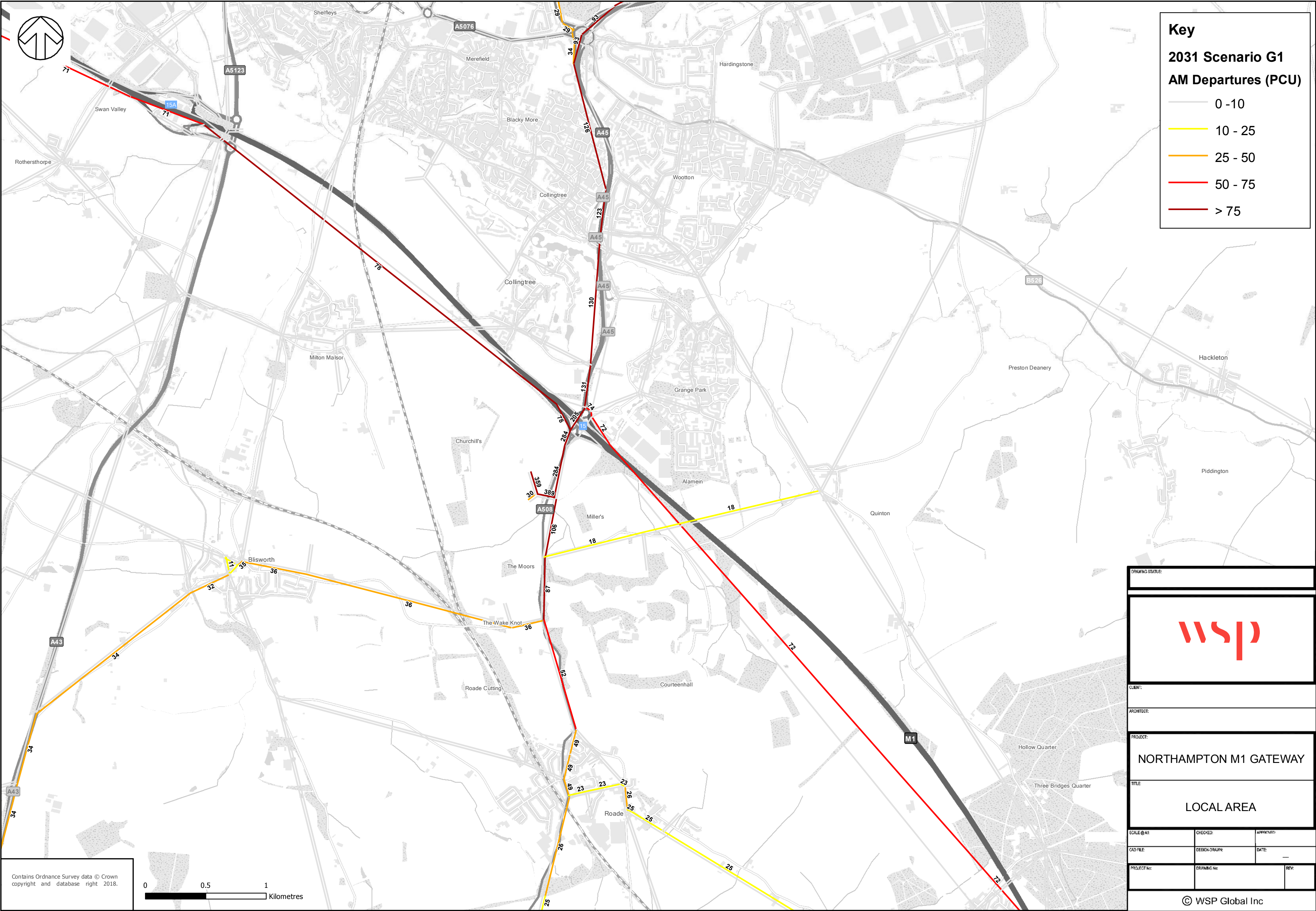
AM Arrivals (PCU)

- 0 - 10
- 10 - 25
- 25 - 50
- 50 - 75
- > 75

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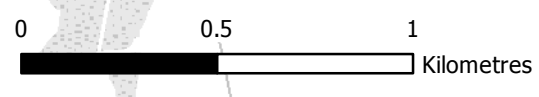
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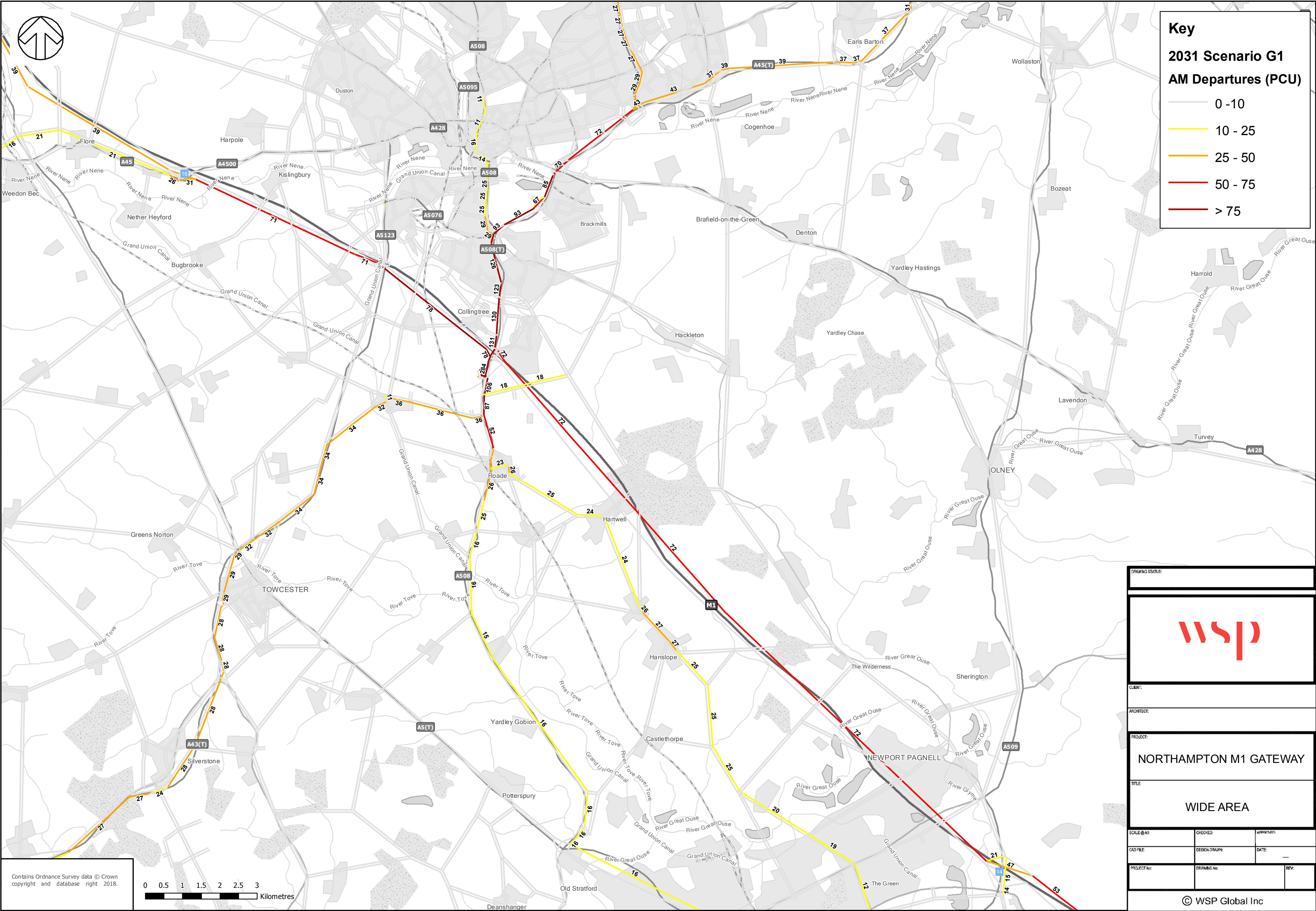
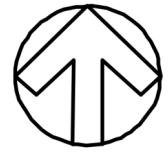
Key
2031 Scenario G1
AM Departures (PCU)

- 0 - 10
- 10 - 25
- 25 - 50
- 50 - 75
- > 75

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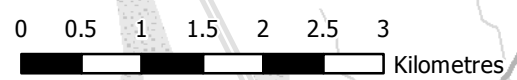
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2031 Scenario G1


AM Departures (PCU)

- 0 - 10
- 10 - 25
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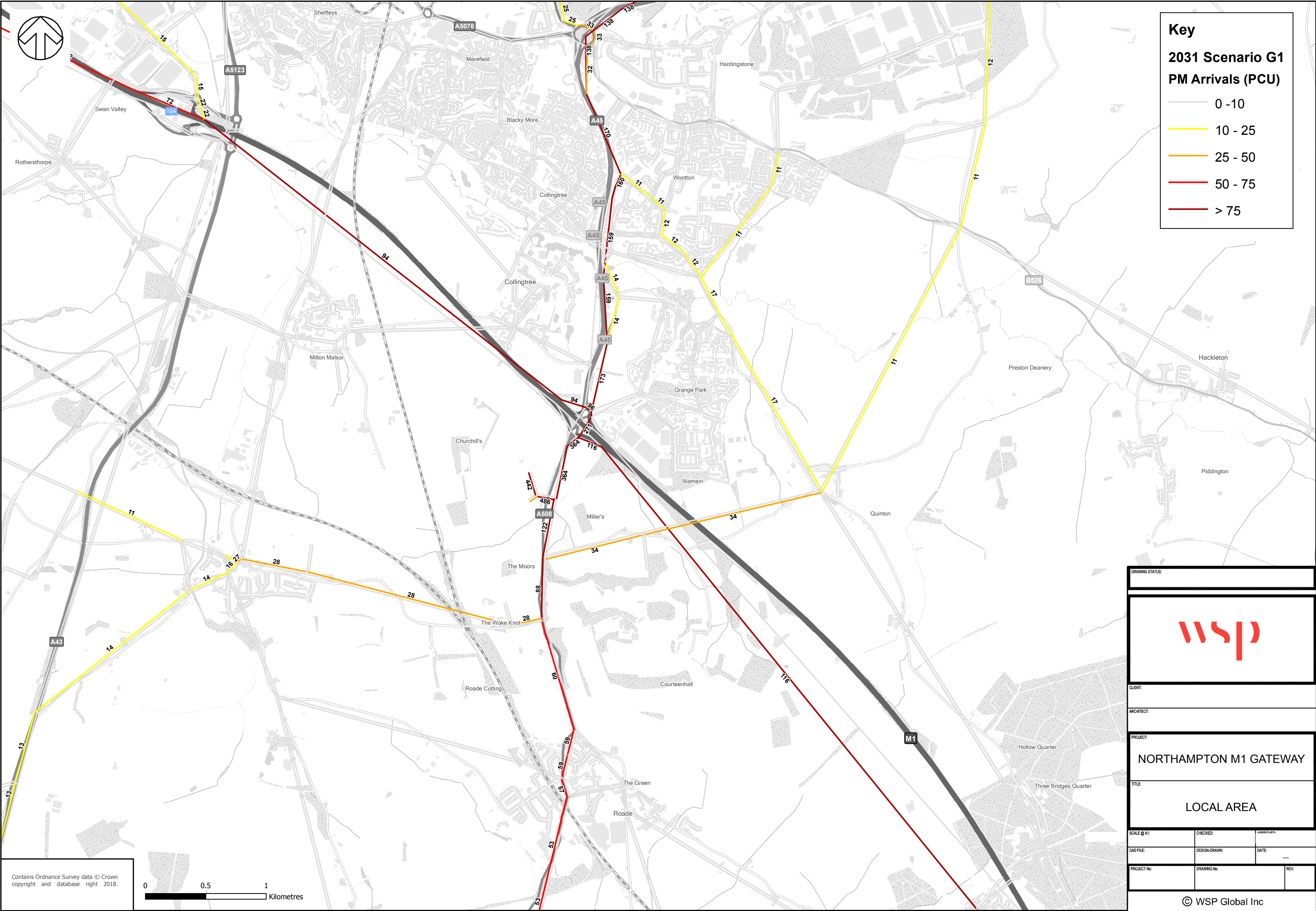
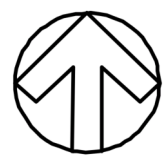
NORTHAMPTON M1 GATEWAY

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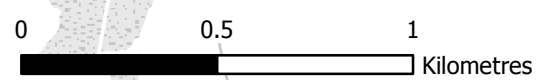
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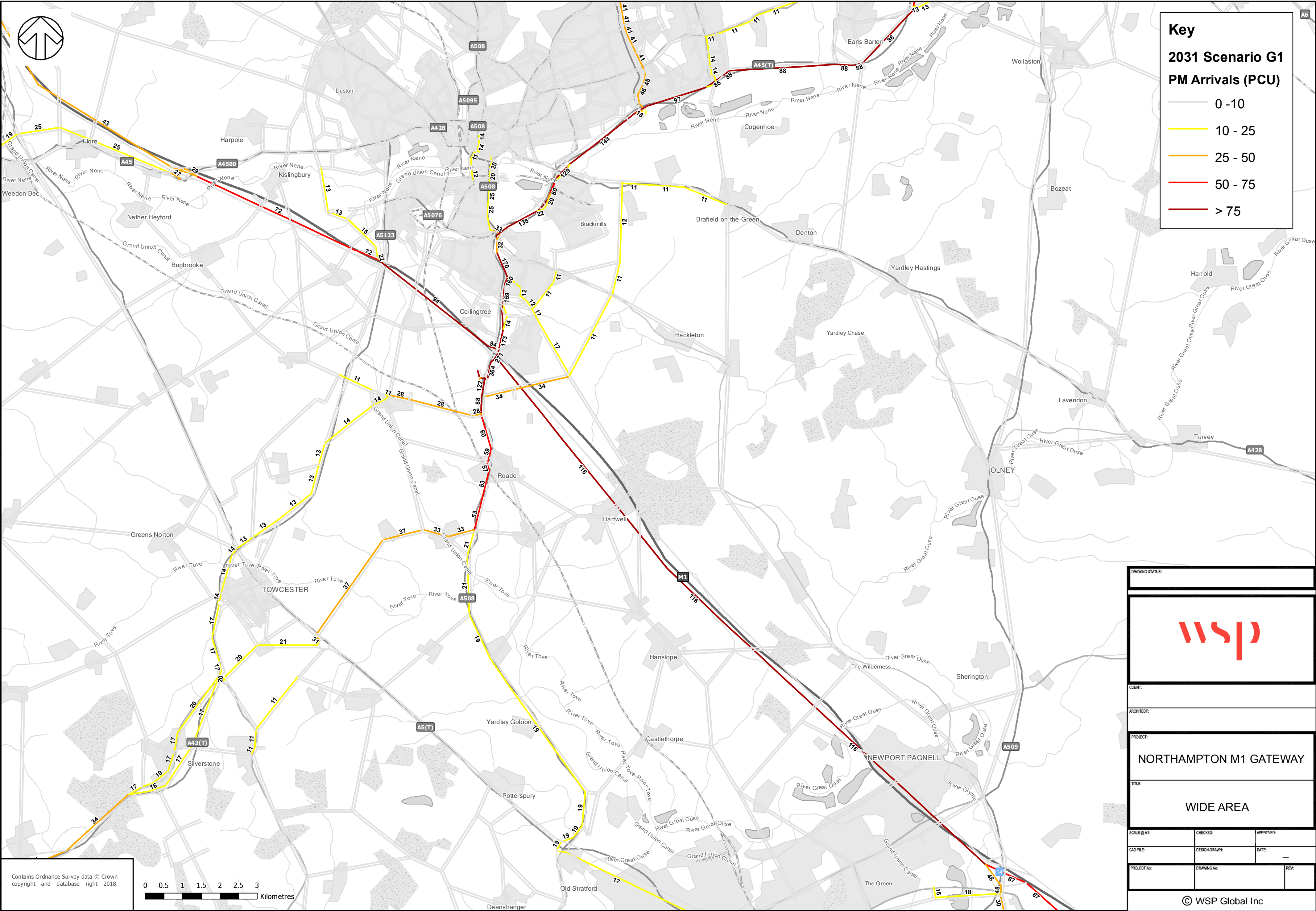
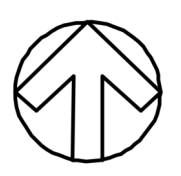
PM Arrivals (PCU)

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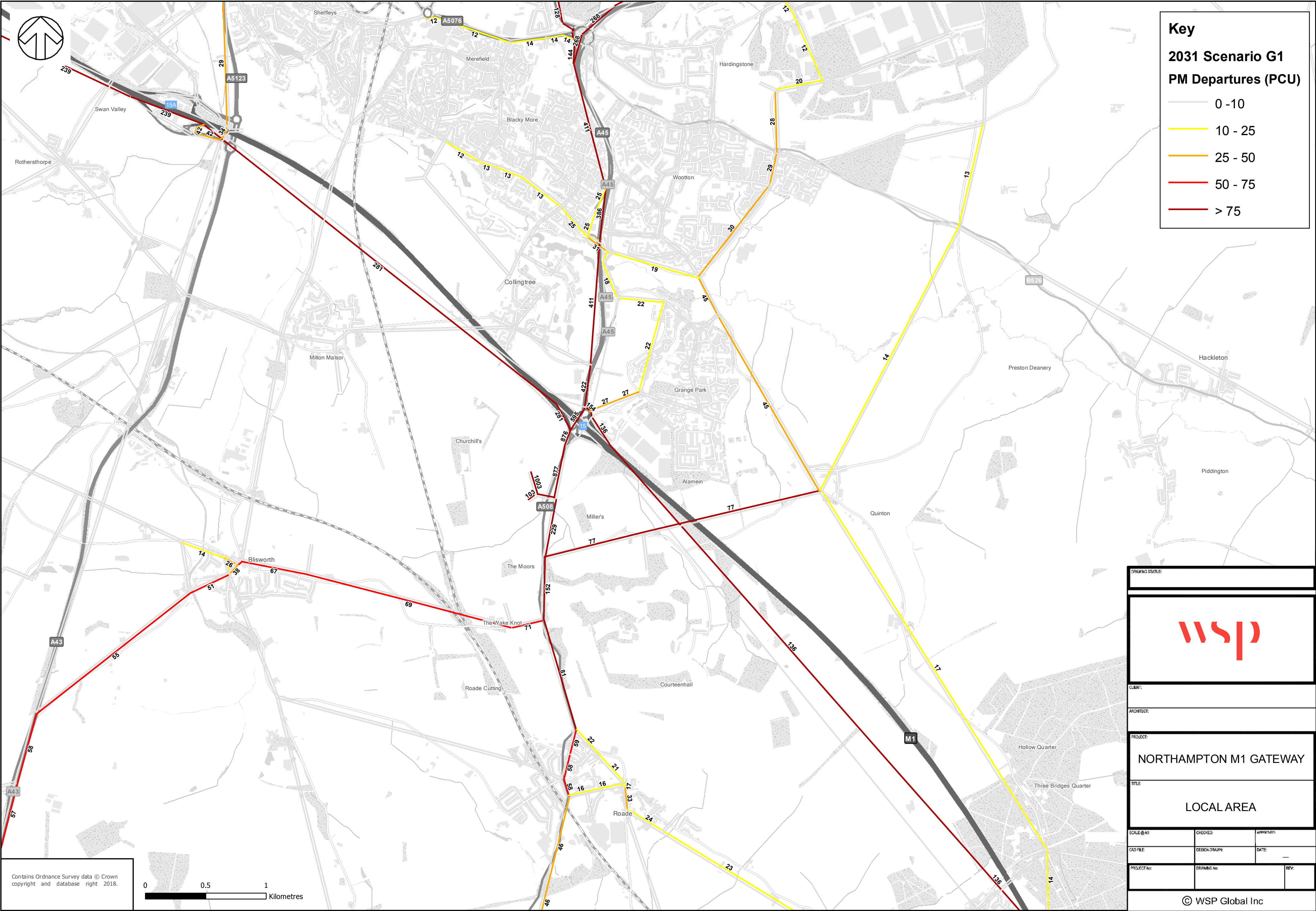
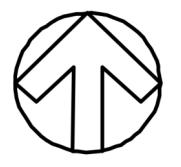
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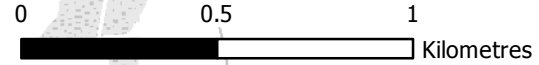
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2031 Scenario G1

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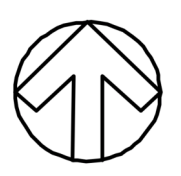
NORTHAMPTON M1 GATEWAY

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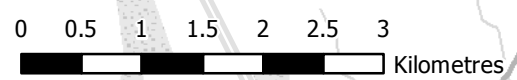
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PM Departures (PCU)

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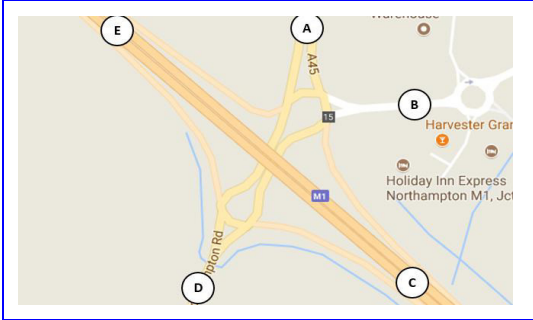
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2031 DEVELOPMENT CASE
WITH HIGHWAY MITIGATION (J1d SCENARIO)

NSTM2 Study Area Turning Counts

Junction Turning Flows

Junction: M1 Junction 15



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	3355	3104	9220	83008	A45
B	27014	83009	3104	27014	Saxon Avenue
C	83025	9221	83009	9107	M1 East
D	1252	9117	9221	1252	A508
E	9117	83011	83007	9220	M1 West
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED									
PCU	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	35	32	959	1104	1714			3844
	B	41	0	20	17	67			145
	C	1705	51	0	330	0			2086
	D	715	25	198	31	649			1618
	E	1230	116	0	784	3			2133
	F								
	G								
TOTAL	3726	224	1177	2266	2433			9826	

By Vehicle Type:

MODELLED									
Car	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	27	31	781	906	1142			2887
	B	40	0	16	15	65			136
	C	1346	15	0	248	0			1609
	D	536	19	132	0	449			1136
	E	982	113	0	619	2			1716
	F								
	G								
TOTAL	2931	178	929	1788	1658			7484	

MODELLED									
LGV	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	8	1	74	68	46			197
	B	1	0	3	0	1			5
	C	97	0	0	12	0			109
	D	38	0	4	0	23			65
	E	73	2	0	18	0			93
	F								
	G								
TOTAL	217	3	81	98	70			469	

MODELLED									
HGV (PCU)	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	104	130	526			760
	B	0	0	1	2	1			4
	C	262	36	0	70	0			368
	D	141	6	62	31	177			417
	E	175	1	0	147	1			324
	F								
	G								
TOTAL	578	43	167	380	705			1873	

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MODELLED									
PCU	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	117	88	985	1199	1279			3668
	B	28	0	121	18	100			267
	C	1429	25	0	205	0			1659
	D	1366	13	199	50	709			2337
	E	955	99	0	563	0			1617
	F								
	G								
TOTAL	3895	225	1305	2035	2088			9548	

By Vehicle Type:

MODELLED									
Car	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	111	85	889	1036	1192			3313
	B	27	0	80	16	20			143
	C	1127	25	0	121	0			1273
	D	1206	11	125	0	511			1853
	E	718	44	0	316	0			1078
	F								
	G								
TOTAL	3189	165	1094	1489	1723			7660	

MODELLED									
LGV	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	6	2	35	20	22			85
	B	1	0	0	0	1			2
	C	71	0	0	4	0			75
	D	51	0	7	0	29			87
	E	67	2	0	26	0			95
	F								
	G								
TOTAL	196	4	42	50	52			344	

MODELLED									
HGV (PCU)	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	1	61	143	65			270
	B	0	0	41	2	79			122
	C	231	0	0	80	0			311
	D	109	2	67	50	169			397
	E	170	53	0	221	0			444
	F								
	G								
TOTAL	510	56	169	496	313			1544	

Junction Turning Flows

Junction: **M1 Junction 15a**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	21265	21266	21266	21265	Swan Valley Way
B	2102	3246	3246	2102	A5123
C	1246	82005	82001	5246	M1 East
D	2309	4246	4246	2309	A43
E	6246	2266	82004	24119	M1 West
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	929	78	0		1008
	B	1	1	198	1555	307		2062
	C	55	330	0	382	2		769
	D	184	1100	221	0	387		1893
	E	4	381	0	625	0		1011
	F							
	G							
TOTAL	244	1813	1349	2641	697		6743	

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	795	76	0		872
	B	1	1	185	1231	224		1641
	C	42	225	0	339	2		607
	D	172	796	207	0	367		1542
	E	4	364	0	350	0		718
	F							
	G							
TOTAL	219	1386	1187	1996	593		5380	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	23	2	0		25
	B	0	0	6	121	13		139
	C	5	35	0	22	0		63
	D	8	49	14	0	9		79
	E	0	14	0	43	0		57
	F							
	G							
TOTAL	13	98	43	188	22		363	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	111	0	0		111
	B	0	0	7	204	71		281
	C	8	70	0	21	0		99
	D	5	256	1	0	11		272
	E	0	3	0	232	0		236
	F							
	G							
TOTAL	12	329	119	457	82		1000	

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	644	130	0		774
	B	0	0	238	1068	182		1489
	C	238	619	0	155	0		1011
	D	147	1147	293	0	396		1983
	E	7	474	0	313	0		794
	F							
	G							
TOTAL	392	2241	1175	1665	578		6051	

By Vehicle Type:

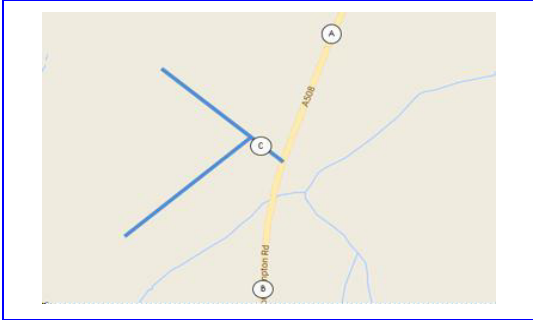
MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	590	125	0		716
	B	0	0	175	843	176		1194
	C	89	550	0	139	0		778
	D	139	824	281	0	372		1616
	E	7	279	0	297	0		583
	F							
	G							
TOTAL	236	1653	1046	1404	548		4887	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	43	4	0		46
	B	0	0	7	48	5		60
	C	4	23	0	4	0		31
	D	6	53	12	0	24		94
	E	0	15	0	13	0		29
	F							
	G							
TOTAL	10	91	61	69	29		261	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	11	0	0		12
	B	0	0	57	178	1		235
	C	145	46	0	11	0		202
	D	1	271	0	0	0		273
	E	0	180	0	2	0		182
	F							
	G							
TOTAL	146	497	68	192	1		904	

Junction Turning Flows

Junction: Site Access (new junction)



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	83013	83000	83000	83013	A508 (SB)
B	21152	83000	83000	21152	A508 (NB)
C	83027	83000	83000	83027	Site Access
D					Site Access
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	1515	741				2255
	B	1239	0	137				1376
	C	380	8	0				388
	D							
	E							
	F							
	G							
	TOTAL	1619	1523	877				4019

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	1298	502				1800
	B	1047	0	63				1111
	C	75	8	0				83
	D							
	E							
	F							
	G							
	TOTAL	1122	1306	565				2993

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	31	32				63
	B	61	0	4				65
	C	4	0	0				4
	D							
	E							
	F							
	G							
	TOTAL	65	31	37				133

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	186	206				392
	B	131	0	69				200
	C	301	0	0				301
	D							
	E							
	F							
	G							
	TOTAL	432	186	275				893

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	1599	395				1995
	B	1316	0	85				1401
	C	1023	78	0				1101
	D							
	E							
	F							
	G							
	TOTAL	2339	1678	480				4497

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	1366	173				1539
	B	1160	0	21				1181
	C	691	74	0				764
	D							
	E							
	F							
	G							
	TOTAL	1851	1440	194				3485

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	45	8				53
	B	56	0	1				57
	C	31	4	0				36
	D							
	E							
	F							
	G							
	TOTAL	87	50	9				145

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	188	214				403
	B	100	0	63				163
	C	301	0	0				301
	D							
	E							
	F							
	G							
	TOTAL	401	188	277				867

Junction Turning Flows

Junction: A45/Watering Ln



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A			2104	2093	A45 North
B	83008	2104			A45 South
C	1104	2104	2104	1104	Watering Lane
D					
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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		MODELLED							TOTAL
		To Arm							
From Arm	PCU	A	B	C	D	E	F	G	
		A	0	0	0				
	B	3339	0	447					
	C	308	0	0					
	D								
	E								
	F								
	G								
	TOTAL	3647	0	447				4094	

By Vehicle Type:

		MODELLED							TOTAL
		To Arm							
From Arm	Car	A	B	C	D	E	F	G	
		A	0	0	0				
	B	2627	0	377					
	C	281	0	0					
	D								
	E								
	F								
	G								
	TOTAL	2908	0	377				3285	

		MODELLED							TOTAL
		To Arm							
From Arm	LGV	A	B	C	D	E	F	G	
		A	0	0	0				
	B	165	0	70					
	C	27	0	0					
	D								
	E								
	F								
	G								
	TOTAL	192	0	70				262	

		MODELLED							TOTAL
		To Arm							
From Arm	HGV (PCU)	A	B	C	D	E	F	G	
		A	0	0	0				
	B	547	0	0					
	C	0	0	0					
	D								
	E								
	F								
	G								
	TOTAL	547	0	0				547	

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		MODELLED							TOTAL
		To Arm							
From Arm	PCU	A	B	C	D	E	F	G	
		A	0	0	0				
	B	3815	0	328					
	C	132	0	0					
	D								
	E								
	F								
	G								
	TOTAL	3947	0	328				4275	

By Vehicle Type:

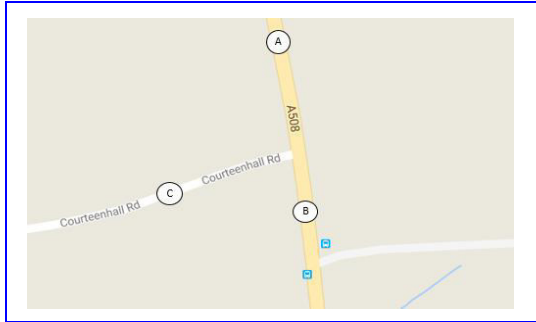
		MODELLED							TOTAL
		To Arm							
From Arm	Car	A	B	C	D	E	F	G	
		A	0	0	0				
	B	3115	0	311					
	C	116	0	0					
	D								
	E								
	F								
	G								
	TOTAL	3231	0	311				3542	

		MODELLED							TOTAL
		To Arm							
From Arm	LGV	A	B	C	D	E	F	G	
		A	0	0	0				
	B	177	0	17					
	C	16	0	0					
	D								
	E								
	F								
	G								
	TOTAL	193	0	17				210	

		MODELLED							TOTAL
		To Arm							
From Arm	HGV (PCU)	A	B	C	D	E	F	G	
		A	0	0	0				
	B	523	0	0					
	C	0	0	0					
	D								
	E								
	F								
	G								
	TOTAL	523	0	0				523	

Junction Turning Flows

Junction: **A508/Courteenhall Rd**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	21152	25210	25210	21152	A508 (SB)
B	83006	25210	25210	83006	A508 (NB)
C	70874	25210	25210	70874	Courteenhall Rd
D					
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED								
PCU	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	1552	0				1552
	B	1251	0	109				1360
	C	237	0	0				237
	D							
	E							
	F							
	G							
	TOTAL	1488	1552	109				

By Vehicle Type:

MODELLED								
Car	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	1331	0				1331
	B	1000	0	106				1107
	C	226	0	0				226
	D							
	E							
	F							
	G							
	TOTAL	1226	1331	106				

MODELLED								
LGV	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	29	0				29
	B	57	0	1				58
	C	8	0	0				8
	D							
	E							
	F							
	G							
	TOTAL	65	29	1				

MODELLED								
HGV (PCU)	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	192	0				192
	B	194	0	1				195
	C	3	0	0				3
	D							
	E							
	F							
	G							
	TOTAL	197	192	1				

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MODELLED								
PCU	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	1652	0				1652
	B	1390	0	74				1463
	C	67	0	0				67
	D							
	E							
	F							
	G							
	TOTAL	1457	1652	74				

By Vehicle Type:

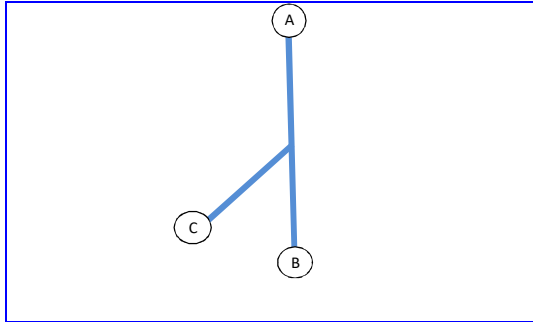
MODELLED								
Car	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	1435	0				1435
	B	1203	0	70				1273
	C	57	0	0				57
	D							
	E							
	F							
	G							
	TOTAL	1260	1435	70				

MODELLED								
LGV	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	40	0				40
	B	53	0	3				56
	C	1	0	0				1
	D							
	E							
	F							
	G							
	TOTAL	54	40	3				

MODELLED								
HGV (PCU)	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	177	0				177
	B	134	0	1				135
	C	9	0	0				9
	D							
	E							
	F							
	G							
	TOTAL	143	177	1				

Junction Turning Flows

Junction: **Roadie Bypass northern roundabout (new junction)**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	25210	83006	83006	25210	A508 (SB)
B	25176	83006	83006	25176	A508 (NB)
C	83005	83006	83006	83005	Roadie Bypass
D					
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	260	1292				1552
	B	239	0	0				239
	C	1121	7	0				1128
	D							
	E							
	F							
	G							
	TOTAL	1360	267	1292				2919

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	246	1085				1331
	B	223	0	0				223
	C	884	7	0				891
	D							
	E							
	F							
	G							
	TOTAL	1107	253	1085				2445

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	5	24				29
	B	3	0	0				3
	C	55	0	0				55
	D							
	E							
	F							
	G							
	TOTAL	58	5	24				87

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	10	182				192
	B	13	0	0				13
	C	182	0	0				182
	D							
	E							
	F							
	G							
	TOTAL	195	10	182				387

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	325	1328				1652
	B	474	0	0				474
	C	989	123	0				1112
	D							
	E							
	F							
	G							
	TOTAL	1463	448	1328				3238

By Vehicle Type:

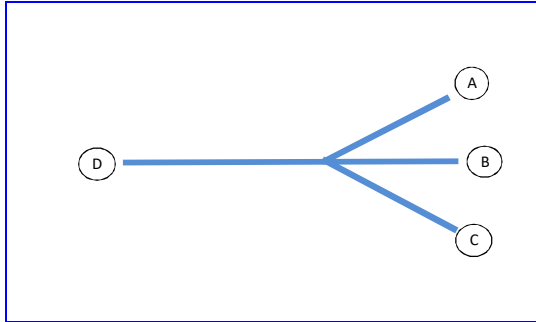
MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	284	1151				1435
	B	460	0	0				460
	C	814	123	0				937
	D							
	E							
	F							
	G							
	TOTAL	1274	407	1151				2832

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	4	37				40
	B	4	0	0				4
	C	52	0	0				52
	D							
	E							
	F							
	G							
	TOTAL	55	4	37				96

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	37	140				177
	B	10	0	0				10
	C	124	0	0				124
	D							
	E							
	F							
	G							
	TOTAL	134	37	140				311

Junction Turning Flows

Junction: **Roads Bypass/Blisworth roundabout (new junction)**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	83006	83005	83005	83006	Roads Bypass North
B	70607	83005	83005	70607	Knock Lane East
C	70611	83005	83005	70611	Roads Bypass South
D	25245	83005	83005	25245	Knock Lane West
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	22	1229	41			1292
	B	33	0	15	4			52
	C	1088	5	0	3			1095
	D	7	154	157	0			318
	E							
	F							
	G							
	TOTAL	1129	180	1401	47			2758

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	22	1025	39			1085
	B	31	0	15	4			50
	C	853	4	0	3			860
	D	7	149	157	0			313
	E							
	F							
	G							
	TOTAL	891	175	1197	46			2309

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	23	1			24
	B	1	0	0	0			1
	C	54	0	0	0			54
	D	0	5	0	0			5
	E							
	F							
	G							
	TOTAL	55	5	23	1			85

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	182	0			182
	B	1	0	0	0			1
	C	180	0	0	0			181
	D	0	0	0	0			0
	E							
	F							
	G							
	TOTAL	182	0	182	0			364

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	45	1183	100			1328
	B	120	0	8	4			133
	C	986	20	0	1			1007
	D	6	141	4	0			151
	E							
	F							
	G							
	TOTAL	1112	206	1195	105			2618

By Vehicle Type:

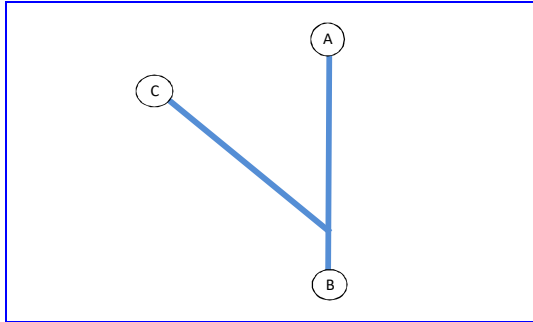
MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	42	1012	97			1151
	B	117	0	8	4			130
	C	814	20	0	1			835
	D	6	140	4	0			149
	E							
	F							
	G							
	TOTAL	937	202	1024	103			2266

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	3	32	2			37
	B	2	0	0	0			2
	C	49	0	0	0			49
	D	0	1	1	0			1
	E							
	F							
	G							
	TOTAL	51	3	32	2			89

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	140	0			140
	B	0	0	0	0			0
	C	123	0	0	0			123
	D	0	0	0	0			0
	E							
	F							
	G							
	TOTAL	123	0	140	0			263

Junction Turning Flows

Junction: **Road Bypass southern roundabout (new junction)**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	21313	70611	70611	21313	A508 (SB)
B	70111	70611	70611	70111	A508 (NB)
C	83005	70611	70611	83005	Road Bypass
D					
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED								
PCU	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	157	0				157
	B	16	0	1095				1112
	C	0	1401	0				1401
	D							
	E							
	F							
	G							
	TOTAL	16	1558	1095				

By Vehicle Type:

MODELLED								
Car	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	157	0				157
	B	10	0	860				871
	C	0	1194	0				1194
	D							
	E							
	F							
	G							
	TOTAL	10	1351	860				

MODELLED								
LGV	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	0	0	54				54
	C	0	23	0				23
	D							
	E							
	F							
	G							
	TOTAL	0	23	54				

MODELLED								
HGV (PCU)	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	6	0	181				186
	C	0	184	0				184
	D							
	E							
	F							
	G							
	TOTAL	6	184	181				

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MODELLED								
PCU	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	177	0				177
	B	294	0	1007				1301
	C	0	1195	0				1195
	D							
	E							
	F							
	G							
	TOTAL	294	1372	1007				

By Vehicle Type:

MODELLED								
Car	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	177	0				177
	B	294	0	835				1128
	C	0	1023	0				1023
	D							
	E							
	F							
	G							
	TOTAL	294	1200	835				

MODELLED								
LGV	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	0	0	49				49
	C	0	32	0				32
	D							
	E							
	F							
	G							
	TOTAL	0	32	49				

MODELLED								
HGV (PCU)	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	0	0	123				123
	C	0	140	0				140
	D							
	E							
	F							
	G							
	TOTAL	0	140	123				

Junction Turning Flows

Junction: **A508/Rookery Ln/Ashton Rd**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	70611	70111	70111	70611	A508 North
B	70222	1500	1500	70222	Ashton Road
C	24622	1500	1500	24622	A508 South
D	70444	70111	70111	70444	Rookery Lane
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED								
PCU	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	6	1315	236			1557
	B	1	0	1	36			38
	C	717	76	0	0			793
	D	378	24	20	0			422
	E							
	F							
	G							
	TOTAL	1096	106	1336	272			2810

By Vehicle Type:

MODELLED								
Car	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	6	1129	213			1348
	B	1	0	1	34			36
	C	540	75	0	0			615
	D	320	23	17	0			360
	E							
	F							
	G							
	TOTAL	861	104	1147	247			2359

MODELLED								
LGV	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	19	4			23
	B	0	0	0	2			2
	C	42	1	0	0			43
	D	8	1	3	0			12
	E							
	F							
	G							
	TOTAL	50	2	22	6			80

MODELLED								
HGV (PCU)	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	167	19			186
	B	0	0	0	0			0
	C	135	0	0	0			135
	D	50	0	0	0			50
	E							
	F							
	G							
	TOTAL	185	0	167	19			371

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MODELLED								
PCU	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	10	1044	318			1372
	B	1	0	2	5			8
	C	965	36	0	0			1001
	D	336	0	0	0			336
	E							
	F							
	G							
	TOTAL	1302	46	1046	323			2717

By Vehicle Type:

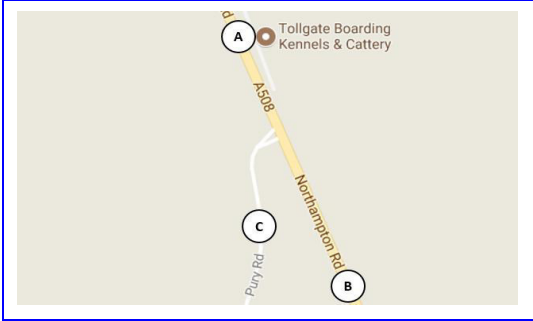
MODELLED								
Car	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	9	936	254			1199
	B	1	0	2	3			6
	C	842	35	0	0			877
	D	287	0	0	0			287
	E							
	F							
	G							
	TOTAL	1130	44	938	257			2369

MODELLED								
LGV	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	1	20	11			32
	B	0	0	0	2			2
	C	31	1	0	0			32
	D	18	0	0	0			18
	E							
	F							
	G							
	TOTAL	49	2	20	13			84

MODELLED								
HGV (PCU)	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	88	53			141
	B	0	0	0	0			0
	C	92	0	0	0			92
	D	31	0	0	0			31
	E							
	F							
	G							
	TOTAL	123	0	88	53			264

Junction Turning Flows

Junction: **A508/Pury Rd**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	24622	75174	75174	24622	A508 North
B	70884	75174	75174	70884	A508 South
C	75171	75174	75174	75171	Pury Road
D					
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	899	536				1435
	B	599	0	9				608
	C	256	2	0				258
	D							
	E							
	F							
	G							
TOTAL	855	901	545					2302

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	711	523				1234
	B	426	0	9				436
	C	248	2	0				249
	D							
	E							
	F							
	G							
TOTAL	674	713	532					1919

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	21	13				33
	B	39	0	0				40
	C	9	0	0				9
	D							
	E							
	F							
	G							
TOTAL	48	21	13					82

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	167	0				167
	B	133	0	0				133
	C	0	0	0				0
	D							
	E							
	F							
	G							
TOTAL	133	167	0					301

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	751	384				1135
	B	893	0	1				894
	C	255	33	0				288
	D							
	E							
	F							
	G							
TOTAL	1148	784	385					2317

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	612	379				992
	B	761	0	1				762
	C	235	33	0				268
	D							
	E							
	F							
	G							
TOTAL	996	645	380					2021

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	23	5				27
	B	35	0	0				35
	C	20	0	0				20
	D							
	E							
	F							
	G							
TOTAL	55	23	5					82

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	116	0				116
	B	97	0	0				97
	C	0	0	0				0
	D							
	E							
	F							
	G							
TOTAL	97	116	0					213

Junction Turning Flows

Junction: Stoke Rd/Knock Ln



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	70997	25245	25245	70997	Stoke Rd North
B	83005	25245	25245	83005	Knock Ln
C	25211	25245	25245	25211	Stoke Rd South
D					
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	318	164				483
	B	47	0	0				47
	C	78	0	0				78
	D							
	E							
	F							
	G							
TOTAL	126	318	164					608

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	313	134				447
	B	46	0	0				46
	C	51	0	0				51
	D							
	E							
	F							
	G							
TOTAL	97	313	134					544

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	5	30				35
	B	1	0	0				1
	C	24	0	0				24
	D							
	E							
	F							
	G							
TOTAL	25	5	30					60

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	0				0
	B	0	0	0				0
	C	3	0	0				3
	D							
	E							
	F							
	G							
TOTAL	4	0	0					4

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	151	79				230
	B	105	0	0				105
	C	373	0	0				373
	D							
	E							
	F							
	G							
TOTAL	478	151	79					707

By Vehicle Type:

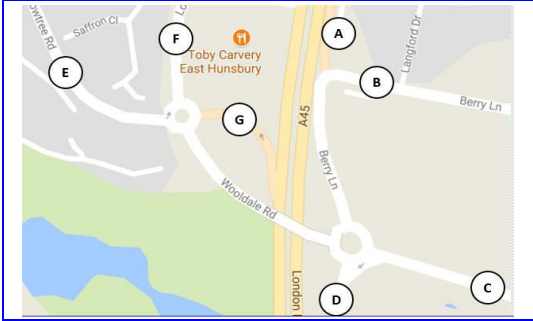
MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	149	74				224
	B	103	0	0				103
	C	337	0	0				337
	D							
	E							
	F							
	G							
TOTAL	439	149	74					663

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	1	4				6
	B	2	0	0				2
	C	31	0	0				31
	D							
	E							
	F							
	G							
TOTAL	33	1	4					38

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	0				0
	B	0	0	0				0
	C	5	0	0				5
	D							
	E							
	F							
	G							
TOTAL	5	0	0					5

Junction Turning Flows

Junction: **A45 Wootton Interchange**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	6082	5082			A45 SB Off-slip
B	4082	5082	5082	4082	Berry Lane East
C	3081	75031	75031	3081	Wooldale Road
D	1355	75032	75032	1355	unnamed road
E	24752	1093	1093	24752	Rowtree Road
F			1093	26031	London Road
G	2093	1093			A45 NB On-slip

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED									
PCU	To Arm								TOTAL
	A	B	C	D	E	F	G		
From Arm	A	0	0	0	0	132	20	0	152
	B	0	0	0	128	31	93	0	252
	C	0	0	0	699	76	91	0	866
	D	0	78	172	0	116	302	0	668
	E	0	71	446	449	0	682	0	1648
	F	0	0	0	0	0	0	0	0
	G	0	41	486	25	155	31	0	738
	TOTAL	0	190	1104	1301	510	1219	0	4324

By Vehicle Type:

MODELLED									
Car	To Arm								TOTAL
	A	B	C	D	E	F	G		
From Arm	A	0	0	0	0	118	19	0	137
	B	0	0	0	108	31	91	0	230
	C	0	0	0	364	70	80	0	514
	D	0	75	159	0	116	285	0	635
	E	0	66	425	444	0	518	0	1453
	F	0	0	0	0	0	0	0	0
	G	0	35	297	22	135	29	0	518
	TOTAL	0	176	881	938	470	1022	0	3487

MODELLED									
LGV	To Arm								TOTAL
	A	B	C	D	E	F	G		
From Arm	A	0	0	0	0	6	1	0	7
	B	0	0	0	3	0	1	0	4
	C	0	0	0	27	5	5	0	37
	D	0	2	5	0	0	10	0	17
	E	0	1	17	2	0	21	0	41
	F	0	0	0	0	0	0	0	0
	G	0	1	31	3	8	2	0	45
	TOTAL	0	4	53	35	19	40	0	151

MODELLED									
HGV (PCU)	To Arm								TOTAL
	A	B	C	D	E	F	G		
From Arm	A	0	0	0	0	8	0	0	8
	B	0	0	0	17	0	1	0	18
	C	0	0	0	308	1	6	0	315
	D	0	1	8	0	0	7	0	16
	E	0	4	4	3	0	143	0	154
	F	0	0	0	0	0	0	0	0
	G	0	5	158	0	12	0	0	175
	TOTAL	0	10	170	328	21	157	0	686

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MODELLED									
PCU	To Arm								TOTAL
	A	B	C	D	E	F	G		
From Arm	A	0	0	12	0	526	81	0	619
	B	0	0	0	0	0	0	0	0
	C	0	0	0	527	368	99	0	994
	D	0	41	245	0	103	210	0	599
	E	0	8	268	391	0	529	0	1196
	F	0	0	0	0	0	0	0	0
	G	0	15	620	6	273	76	0	990
	TOTAL	0	64	1145	924	1270	995	0	4398

By Vehicle Type:

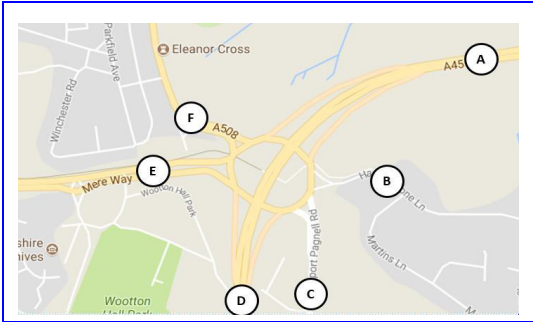
MODELLED									
Car	To Arm								TOTAL
	A	B	C	D	E	F	G		
From Arm	A	0	0	12	0	427	79	0	518
	B	0	0	0	0	0	0	0	0
	C	0	0	0	426	219	94	0	739
	D	0	37	224	0	102	201	0	564
	E	0	7	193	383	0	176	0	759
	F	0	0	0	0	0	0	0	0
	G	0	14	436	1	255	56	0	762
	TOTAL	0	58	865	810	1003	606	0	3342

MODELLED									
LGV	To Arm								TOTAL
	A	B	C	D	E	F	G		
From Arm	A	0	0	0	0	16	2	0	18
	B	0	0	0	0	0	0	0	0
	C	0	0	0	20	4	4	0	28
	D	0	0	21	0	1	8	0	30
	E	0	1	10	7	0	27	0	45
	F	0	0	0	0	0	0	0	0
	G	0	0	19	5	13	4	0	41
	TOTAL	0	1	50	32	34	45	0	162

MODELLED									
HGV (PCU)	To Arm								TOTAL
	A	B	C	D	E	F	G		
From Arm	A	0	0	0	0	83	0	0	83
	B	0	0	0	0	0	0	0	0
	C	0	0	0	81	145	1	0	227
	D	0	4	0	0	0	1	0	5
	E	0	0	65	1	0	326	0	392
	F	0	0	0	0	0	0	0	0
	G	0	1	165	0	5	16	0	187
	TOTAL	0	5	230	82	233	344	0	894

Junction Turning Flows

Junction: **A45 Queen Eleanor Interchange**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	9168	2092	60137	9162	A45 North
B	1081	1079	1079	1081	Hardington Lane
C	24742	3082	3082	24742	Newport Pagnell Rd
D	9161	60134	60133	9169	A45 South
E	60203	1092	1092	60203	Mere Way
F	2088	60136	60136	2088	A508 - London Road
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED									
PCU	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	63	133	0	1527	291		2014
	B	222	0	0	29	110	150		511
	C	221	0	0	0	344	406		971
	D	0	0	0	0	46	843		889
	E	1833	20	462	200	0	20		2535
	F	197	9	404	514	30	0		1154
	G								
	TOTAL	2473	92	999	743	2057	1710		8074

By Vehicle Type:

MODELLED									
Car	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	58	127	0	1282	224		1691
	B	218	0	0	29	109	148		504
	C	218	0	0	0	336	391		945
	D	0	0	0	0	33	503		536
	E	1395	18	445	188	0	20		2066
	F	190	9	373	426	29	0		1027
	G								
	TOTAL	2021	85	945	643	1789	1286		6769

MODELLED									
LGV	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	5	6	0	106	28		145
	B	4	0	0	0	1	2		7
	C	2	0	0	0	6	8		16
	D	0	0	0	0	1	55		56
	E	49	2	5	4	0	0		60
	F	4	0	2	17	1	0		24
	G								
	TOTAL	59	7	13	21	115	93		308

MODELLED									
HGV (PCU)	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	0	0	139	39		178
	B	0	0	0	0	0	0		0
	C	1	0	0	0	2	7		10
	D	0	0	0	0	12	285		297
	E	389	0	12	8	0	0		409
	F	3	0	29	71	0	0		103
	G								
	TOTAL	393	0	41	79	153	331		997

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MODELLED									
PCU	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	528	56	0	1217	214		2015
	B	401	0	0	28	38	160		627
	C	122	3	1	73	839	573		1611
	D	0	26	37	0	51	610		724
	E	1550	100	422	462	0	5		2539
	F	358	88	180	616	79	0		1321
	G								
	TOTAL	2431	745	696	1179	2224	1562		8837

By Vehicle Type:

MODELLED									
Car	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	525	56	0	977	191		1749
	B	379	0	0	28	36	154		597
	C	121	3	1	72	821	545		1563
	D	0	26	36	0	51	535		648
	E	1357	99	418	448	0	5		2327
	F	338	84	165	546	74	0		1207
	G								
	TOTAL	2195	737	676	1094	1959	1430		8091

MODELLED									
LGV	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	3	0	0	68	23		94
	B	17	0	0	0	2	5		24
	C	1	0	0	1	18	28		48
	D	0	0	1	0	0	20		21
	E	27	1	3	1	0	0		32
	F	20	4	7	5	5	0		41
	G								
	TOTAL	65	8	11	7	93	76		260

MODELLED									
HGV (PCU)	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	0	0	172	0		172
	B	5	0	0	0	0	1		6
	C	0	0	0	0	0	0		0
	D	0	0	0	0	0	55		55
	E	166	0	1	13	0	0		180
	F	0	0	8	65	0	0		73
	G								
	TOTAL	171	0	9	78	172	56		486

Junction Turning Flows

Junction: **A45 Brackmills Interchange**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	75028	3084	2084	7084	A45/ Nene Valley Way
B	2345	4084	3084	2345	Caswell Road
C	9163	6084	4084	5084	A45/ Nene Valley Way
D	1084	2084	6084	1084	Eagle Drive
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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PCU		MODELLED							TOTAL
		To Arm							
From Arm	A	13	1032	82	10				1137
	B	866	0	646	8				1520
	C	1431	569	0	14				2014
	D	50	15	17	0				82
	E								
	F								
	G								
	TOTAL		2360	1616	745	32			

By Vehicle Type:

Car		MODELLED							TOTAL
		To Arm							
From Arm	A	13	874	77	10				974
	B	817	0	461	6				1284
	C	1255	498	0	9				1762
	D	35	8	13	0				56
	E								
	F								
	G								
	TOTAL		2120	1380	551	25			

LGV		MODELLED							TOTAL
		To Arm							
From Arm	A	0	6	2	0				8
	B	19	0	39	2				60
	C	48	6	0	5				59
	D	15	7	4	0				26
	E								
	F								
	G								
	TOTAL		82	19	45	7			

HGV (PCU)		MODELLED							TOTAL
		To Arm							
From Arm	A	0	152	3	0				155
	B	30	0	146	0				176
	C	128	65	0	0				193
	D	0	0	0	0				0
	E								
	F								
	G								
	TOTAL		158	217	149	0			

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PCU		MODELLED							TOTAL
		To Arm							
From Arm	A	0	160	594	0				754
	B	224	0	437	2				663
	C	1445	562	0	8				2015
	D	486	140	95	0				721
	E								
	F								
	G								
	TOTAL		2155	862	1126	10			

By Vehicle Type:

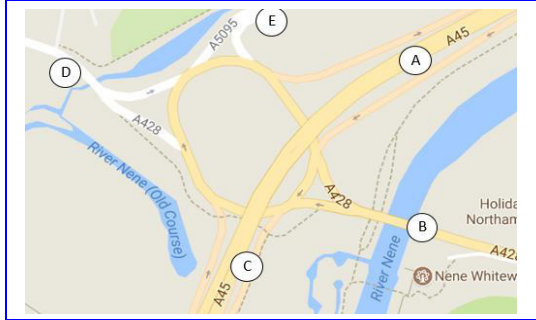
Car		MODELLED							TOTAL
		To Arm							
From Arm	A	0	155	574	0				729
	B	219	0	315	2				536
	C	1212	487	0	3				1702
	D	461	116	84	0				661
	E								
	F								
	G								
	TOTAL		1892	758	973	5			

LGV		MODELLED							TOTAL
		To Arm							
From Arm	A	0	5	17	0				22
	B	3	0	17	0				20
	C	63	24	0	5				92
	D	14	10	11	0				35
	E								
	F								
	G								
	TOTAL		80	39	45	5			

HGV (PCU)		MODELLED							TOTAL
		To Arm							
From Arm	A	0	0	3	0				3
	B	2	0	105	0				107
	C	170	51	0	0				221
	D	11	14	0	0				25
	E								
	F								
	G								
	TOTAL		183	65	108	0			

Junction Turning Flows

Junction: **A45 Barnes Meadow Interchange**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	9166	9176	9175	9165	A45/NeneValley Way
B	24740	2053	2053	24740	A428/Bedford Road
C	9164	9173	9177	75027	A45/NeneValley Way
D	2051	9174	9174	2051	A428/Bedford Road
E	1054	9175	9175	1054	A5095/ Rushmere Road
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED									
PCU	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	300	452	911	96			1759
	B	124	0	127	294	121			666
	C	0	122	0	877	235			1234
	D	829	746	212	1	106			1894
	E	128	826	444	11	0			1409
	F								
	G								
	TOTAL	1081	1994	1235	2094	558			6962

By Vehicle Type:

MODELLED									
Car	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	213	388	851	93			1545
	B	110	0	107	237	114			568
	C	0	119	0	837	229			1185
	D	746	671	205	1	93			1716
	E	123	820	387	10	0			1340
	F								
	G								
	TOTAL	979	1823	1087	1936	529			6354

MODELLED									
LGV	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	2	13	31	3			49
	B	8	0	11	18	6			43
	C	0	3	0	39	6			48
	D	74	6	6	0	13			99
	E	5	3	32	1	0			41
	F								
	G								
	TOTAL	87	14	62	89	28			280

MODELLED									
HGV (PCU)	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	85	51	29	0			165
	B	6	0	9	39	1			55
	C	0	0	0	1	0			1
	D	9	69	1	0	0			79
	E	0	3	25	0	0			28
	F								
	G								
	TOTAL	15	157	86	69	1			328

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MODELLED									
PCU	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	140	359	570	8			1077
	B	384	0	130	487	638			1639
	C	0	54	0	882	294			1230
	D	1930	383	326	19	28			2686
	E	479	354	202	0	0			1035
	F								
	G								
	TOTAL	2793	931	1017	1958	968			7667

By Vehicle Type:

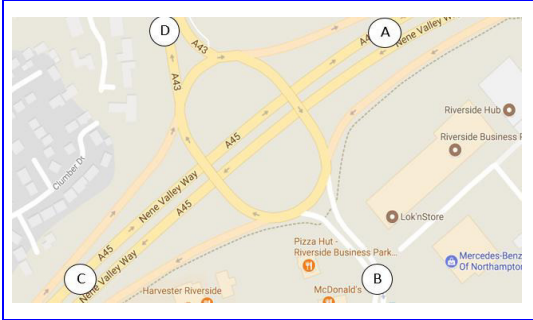
MODELLED									
Car	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	137	338	520	8			1003
	B	371	0	125	474	627			1597
	C	0	49	0	852	272			1173
	D	1729	374	316	19	27			2465
	E	468	344	194	0	0			1006
	F								
	G								
	TOTAL	2568	904	973	1865	934			7244

MODELLED									
LGV	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	2	9	11	0			22
	B	9	0	2	7	9			27
	C	0	0	0	30	20			50
	D	80	6	9	0	1			96
	E	11	9	5	0	0			25
	F								
	G								
	TOTAL	100	17	25	48	30			220

MODELLED									
HGV (PCU)	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	1	12	39	0			52
	B	4	0	3	6	2			15
	C	0	5	0	0	2			7
	D	121	3	1	0	0			125
	E	0	1	3	0	0			4
	F								
	G								
	TOTAL	125	10	19	45	4			203

Junction Turning Flows

Junction: **A45 Lumbertubs Interchange**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	9213	9214	9211	9212	A45/ Nene Valley Way
B	4437	9215	9214	4436	Ferris Flow
C	2075	9217	9215	9216	A45/ Nene Valley Way
D	9210	9211	9217	4068	A43/ Lumbertubs Way
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	94	0	267			361
	B	40	0	1116	278			1434
	C	0	84	11	1657			1752
	D	429	1245	1350	140			3164
	E							
	F							
	G							
	TOTAL	469	1423	2477	2342			6711

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	84	0	257			341
	B	37	0	1017	246			1300
	C	0	73	11	1163			1247
	D	417	1089	1181	135			2822
	E							
	F							
	G							
	TOTAL	454	1246	2209	1801			5710

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	10	0	10			20
	B	2	0	44	5			51
	C	0	11	0	82			93
	D	11	59	51	5			126
	E							
	F							
	G							
	TOTAL	13	80	95	102			290

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	0	0			0
	B	1	0	55	27			83
	C	0	0	0	412			412
	D	1	97	118	0			216
	E							
	F							
	G							
	TOTAL	2	97	173	439			711

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	152	0	663			815
	B	61	0	883	655			1599
	C	0	140	27	1584			1751
	D	151	851	985	49			2036
	E							
	F							
	G							
	TOTAL	212	1143	1895	2951			6201

By Vehicle Type:

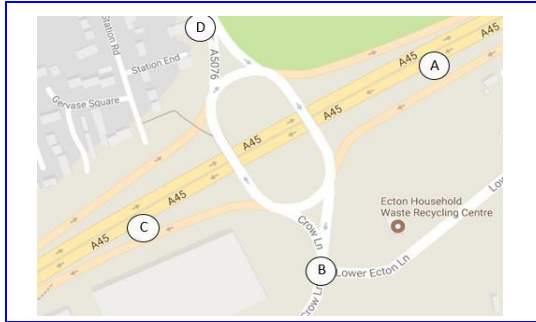
MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	114	0	622			736
	B	56	0	872	652			1580
	C	0	16	27	1327			1370
	D	145	754	874	49			1822
	E							
	F							
	G							
	TOTAL	201	884	1773	2650			5508

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	24	0	12			36
	B	5	0	11	3			19
	C	0	2	0	55			57
	D	6	20	20	0			46
	E							
	F							
	G							
	TOTAL	11	46	31	70			158

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	14	0	29			43
	B	0	0	0	0			0
	C	0	122	0	202			324
	D	0	77	91	0			168
	E							
	F							
	G							
	TOTAL	0	213	91	231			535

Junction Turning Flows

Junction: **A45 Great Billing Interchange**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	9259	9258	9253	9254	A45/ Nene Valley Way
B	1076	9257	9257	1076	Crow Lane
C	9250	9251	9256	9255	A45/ Nene Valley Way
D	24694	9252	9252	24694	Great Billing Way
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED									
PCU	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	373	0	333				706
	B	163	0	665	498				1326
	C	0	147	1	325				473
	D	371	413	939	0				1723
	E								
	F								
	G								
	TOTAL	534	933	1605	1156				4228

By Vehicle Type:

MODELLED									
Car	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	184	0	309				493
	B	105	0	375	344				824
	C	0	137	1	316				454
	D	334	376	899	0				1609
	E								
	F								
	G								
	TOTAL	439	697	1275	969				3380

MODELLED									
LGV	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	6	0	7				13
	B	46	0	57	48				151
	C	0	10	0	7				17
	D	8	18	26	0				52
	E								
	F								
	G								
	TOTAL	54	34	83	62				233

MODELLED									
HGV (PCU)	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	183	0	17				200
	B	12	0	233	106				351
	C	0	0	0	2				2
	D	29	19	14	0				62
	E								
	F								
	G								
	TOTAL	41	202	247	125				615

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MODELLED									
PCU	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	75	0	146				221
	B	266	0	234	604				1104
	C	24	93	8	802				927
	D	473	401	254	0				1128
	E								
	F								
	G								
	TOTAL	763	569	496	1552				3380

By Vehicle Type:

MODELLED									
Car	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	71	0	141				212
	B	228	0	176	521				925
	C	0	21	1	633				655
	D	450	382	241	0				1073
	E								
	F								
	G								
	TOTAL	678	474	418	1295				2865

MODELLED									
LGV	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	4	0	5				9
	B	37	0	40	69				146
	C	0	13	0	21				34
	D	22	19	2	0				43
	E								
	F								
	G								
	TOTAL	59	36	42	95				232

MODELLED									
HGV (PCU)	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	0	0				0
	B	1	0	18	14				33
	C	24	59	7	148				238
	D	1	0	11	0				12
	E								
	F								
	G								
	TOTAL	26	59	36	162				283

Junction Turning Flows

Junction: **A5076/Towcester Rd roundabout**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	60104	5298	4298	60104	Towcester Road
B	60120	60119	60125	60120	Mere Way
C	60123	60121	60122	60123	Shopping centre
D	3096	60126	7298	3096	Towcester Road
E	60118	60117	21298	60118	Danes Camp Way
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	481	9	293	173		956
	B	372	84	14	181	1572		2223
	C	8	24	0	25	20		77
	D	492	420	25	0	333		1270
	E	249	1550	23	98	0		1920
	F							
	G							
TOTAL	1121	2559	71	597	2098		6446	

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	473	9	266	155		903
	B	351	83	12	172	1415		2033
	C	7	22	0	25	20		74
	D	457	407	25	0	319		1208
	E	216	1140	23	88	0		1467
	F							
	G							
TOTAL	1031	2125	69	551	1909		5685	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	6	0	23	18		47
	B	6	1	2	4	25		38
	C	1	2	0	0	0		3
	D	34	9	0	0	14		57
	E	3	35	0	7	0		45
	F							
	G							
TOTAL	44	53	2	34	57		190	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	2	0	4	0		6
	B	15	0	0	5	132		152
	C	0	0	0	0	0		0
	D	1	4	0	0	0		5
	E	30	375	0	3	0		408
	F							
	G							
TOTAL	46	381	0	12	132		571	

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	679	14	340	193		1226
	B	120	120	25	361	1460		2086
	C	11	34	0	35	17		97
	D	428	424	25	0	48		925
	E	206	1213	22	222	0		1663
	F							
	G							
TOTAL	765	2470	86	958	1718		5997	

By Vehicle Type:

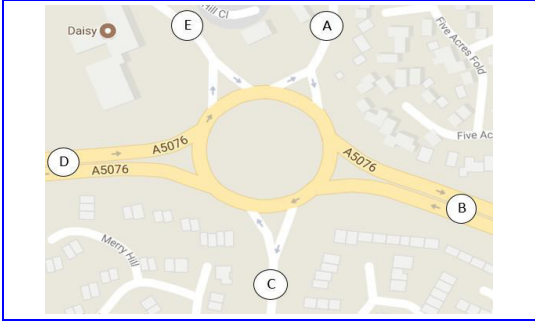
MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	664	13	306	189		1172
	B	102	68	21	312	1337		1840
	C	11	32	0	33	17		93
	D	387	397	24	0	48		856
	E	206	1201	22	220	0		1649
	F							
	G							
TOTAL	706	2362	80	871	1591		5610	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	14	1	34	4		53
	B	7	8	4	29	46		94
	C	0	2	0	1	0		3
	D	20	8	1	0	0		29
	E	0	9	0	2	0		11
	F							
	G							
TOTAL	27	41	6	66	50		190	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	1	0	0	0		1
	B	11	44	0	20	77		152
	C	0	0	0	1	0		1
	D	21	19	0	0	0		40
	E	0	3	0	0	0		3
	F							
	G							
TOTAL	32	67	0	21	77		197	

Junction Turning Flows

Junction: **A5076/Huntsbury Hill roundabout**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	1134	9411	9411	1134	Hunsbarrow Road
B	1091	9411	9411	1091	Danes Camp Way
C	1098	9411	9411	1098	Hunsbury Hill Road
D	4100	9411	9411	4100	Danes Camp Way
E	9413	9411	9411	9413	Hunsbury Hill Avenue
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	28	14	344	21		406
	B	11	0	65	1779	166		2021
	C	0	268	0	502	9		779
	D	13	2281	256	0	164		2714
	E	1	240	7	158	0		405
	F							
	G							
	TOTAL	24	2816	341	2783	360		6325

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	27	14	269	21		331
	B	10	0	65	1585	166		1826
	C	0	260	0	482	9		751
	D	7	1839	251	0	164		2262
	E	1	184	7	156	0		347
	F							
	G							
	TOTAL	19	2311	337	2491	359		5517

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	0	75	0		75
	B	0	0	0	36	0		37
	C	0	2	0	20	0		22
	D	6	57	3	0	0		66
	E	0	1	0	1	0		2
	F							
	G							
	TOTAL	6	60	3	132	0		201

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	0	0	0		1
	B	0	0	0	158	0		158
	C	0	5	0	0	0		6
	D	0	385	2	0	0		386
	E	0	55	0	1	0		57
	F							
	G							
	TOTAL	0	446	2	160	0		608

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	17	77	661	135		890
	B	48	0	103	1078	512		1741
	C	9	252	0	265	22		547
	D	227	1329	400	0	219		2175
	E	13	335	12	81	0		441
	F							
	G							
	TOTAL	296	1933	592	2084	888		5794

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	17	77	642	130		866
	B	48	0	103	973	512		1636
	C	9	250	0	262	22		543
	D	71	1305	389	0	191		1957
	E	13	335	12	81	0		441
	F							
	G							
	TOTAL	140	1907	582	1959	854		5442

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	0	18	5		24
	B	0	0	0	41	0		42
	C	0	1	0	2	0		4
	D	1	21	10	0	28		60
	E	0	0	0	0	0		0
	F							
	G							
	TOTAL	1	23	10	62	34		130

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	0	0	0		0
	B	0	0	0	63	0		63
	C	0	0	0	0	0		0
	D	155	3	0	0	0		158
	E	0	0	0	0	0		0
	F							
	G							
	TOTAL	155	3	0	64	0		222

Junction Turning Flows

Junction: **A5123/A5076 roundabout**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	3258	30008	30008	3258	Upton Way
B	3100	30009	30009	3100	A5076
C	2102	30007	30007	2102	A5123
D	4102	30010	30010	4102	Upton Valley Way E
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	1222	730	211			2163
	B	1127	0	1121	544			2792
	C	680	1083	0	34			1797
	D	358	387	288	4			1037
	E							
	F							
	G							
	TOTAL	2165	2692	2139	793			7789

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	1151	651	193			1995
	B	1029	0	957	510			2496
	C	436	780	0	32			1248
	D	323	361	33	4			721
	E							
	F							
	G							
	TOTAL	1788	2292	1641	739			6460

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	28	34	14			76
	B	27	0	87	22			136
	C	60	39	0	1			100
	D	29	16	10	0			55
	E							
	F							
	G							
	TOTAL	116	83	131	37			367

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	43	45	4			92
	B	71	0	77	12			160
	C	184	264	0	1			449
	D	6	10	245	0			261
	E							
	F							
	G							
	TOTAL	261	317	367	17			962

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	1494	608	123			2225
	B	865	0	741	394			2000
	C	1307	645	0	280			2232
	D	151	111	27	4			293
	E							
	F							
	G							
	TOTAL	2323	2250	1376	801			6750

By Vehicle Type:

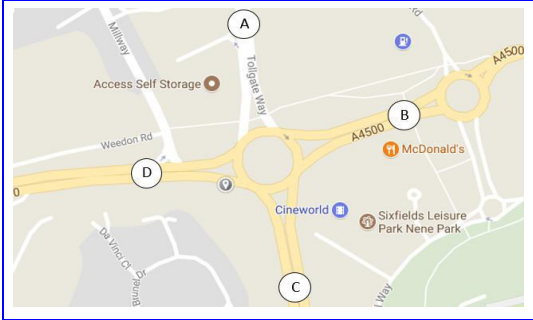
MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	1460	428	123			2011
	B	833	0	690	353			1876
	C	965	447	0	274			1686
	D	142	105	7	4			258
	E							
	F							
	G							
	TOTAL	1940	2012	1125	754			5831

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	33	18	0			51
	B	19	0	27	16			62
	C	35	35	0	5			75
	D	8	4	20	0			32
	E							
	F							
	G							
	TOTAL	62	72	65	21			220

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	1	162	0			163
	B	13	0	24	25			62
	C	307	163	0	1			471
	D	1	2	0	0			3
	E							
	F							
	G							
	TOTAL	321	166	186	26			699

Junction Turning Flows

Junction: **A450/A5076 roundabout**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	60099	9441	9440	60099	Tollgate Way
B	60100	9438	9441	60100	Weedon Road
C	60101	9439	9438	60101	Upton Way
D	60098	9440	9439	60098	Weedon Road
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	257	874	202			1333
	B	41	0	400	459			900
	C	851	567	0	353			1771
	D	199	930	461	23			1613
	E							
	F							
	G							
TOTAL	1091	1754	1735	1037			5617	

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	192	765	183			1140
	B	39	0	367	403			809
	C	606	473	0	316			1395
	D	148	813	440	23			1424
	E							
	F							
	G							
TOTAL	793	1478	1572	925			4768	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	65	76	9			150
	B	2	0	29	20			51
	C	56	17	0	33			106
	D	47	91	16	0			154
	E							
	F							
	G							
TOTAL	105	173	121	62			461	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	33	10			43
	B	0	0	4	36			40
	C	189	77	0	4			270
	D	4	26	5	0			35
	E							
	F							
	G							
TOTAL	193	103	42	50			388	

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	188	540	239			967
	B	55	0	925	780			1760
	C	763	598	0	172			1533
	D	197	843	322	14			1376
	E							
	F							
	G							
TOTAL	1015	1629	1787	1205			5636	

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	171	467	221			859
	B	49	0	868	712			1629
	C	649	536	0	144			1329
	D	165	768	312	14			1259
	E							
	F							
	G							
TOTAL	863	1475	1647	1091			5076	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	17	25	7			49
	B	5	0	18	14			37
	C	42	18	0	11			71
	D	30	51	9	0			90
	E							
	F							
	G							
TOTAL	77	86	52	32			247	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	48	11			59
	B	1	0	39	54			94
	C	72	44	0	17			133
	D	2	24	1	0			27
	E							
	F							
	G							
TOTAL	75	68	88	82			313	

Junction Turning Flows

Junction: **A5123/A508**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	25240	5003	5003	25240	St John's Street
B	2003	7003	7003	2003	123/ Victoria Promeda
C	9314	1277	1277	9314	Auctioneers Way
D	3085	3015	3015	3085	A508/ Cotton End
E	2004	6003	6003	2004	A5123/ St Peter's Way
F	21204	4003			Commercial Street
G	9003	5204	5204	9003	Bridge Street

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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PCU		MODELLED							TOTAL
		To Arm							
From Arm	A	0	0	0	4	0	0	0	4
	B	0	0	0	352	639	0	38	1029
	C	0	0	0	12	8	0	1	21
	D	109	447	6	15	748	0	83	1408
	E	0	377	11	380	1	0	12	781
	F	257	0	0	3	5	0	423	688
	G	66	0	0	5	36	0	0	107
	TOTAL	432	824	17	771	1437	0	557	4038

By Vehicle Type:

Car		MODELLED							TOTAL
		To Arm							
From Arm	A	0	0	0	1	0	0	0	1
	B	0	0	0	310	517	0	38	865
	C	0	0	0	11	6	0	1	18
	D	99	422	4	10	451	0	72	1058
	E	0	292	8	305	1	0	12	618
	F	244	0	0	3	5	0	419	671
	G	63	0	0	5	34	0	0	102
	TOTAL	406	714	12	645	1014	0	542	3333

LGV		MODELLED							TOTAL
		To Arm							
From Arm	A	0	0	0	0	0	0	0	0
	B	0	0	0	9	30	0	0	39
	C	0	0	0	1	2	0	0	3
	D	7	13	2	5	50	0	3	80
	E	0	28	3	20	0	0	0	51
	F	11	0	0	0	0	0	3	14
	G	3	0	0	0	2	0	0	5
	TOTAL	21	41	5	35	84	0	6	192

HGV (PCU)		MODELLED							TOTAL
		To Arm							
From Arm	A	0	0	0	3	0	0	0	3
	B	0	0	0	33	92	0	0	125
	C	0	0	0	0	0	0	0	0
	D	3	12	0	0	247	0	8	270
	E	0	57	0	55	0	0	0	112
	F	2	0	0	0	0	0	1	3
	G	0	0	0	0	0	0	0	0
	TOTAL	5	69	0	91	339	0	9	513

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PCU		MODELLED							TOTAL
		To Arm							
From Arm	A	0	2	0	39	30	0	0	71
	B	18	0	0	722	927	0	29	1696
	C	0	0	0	25	39	0	0	64
	D	180	393	0	0	471	0	37	1081
	E	2	133	0	358	17	0	15	525
	F	198	0	0	143	26	0	120	487
	G	542	0	0	30	113	0	0	685
	TOTAL	940	528	0	1317	1623	0	201	4609

By Vehicle Type:

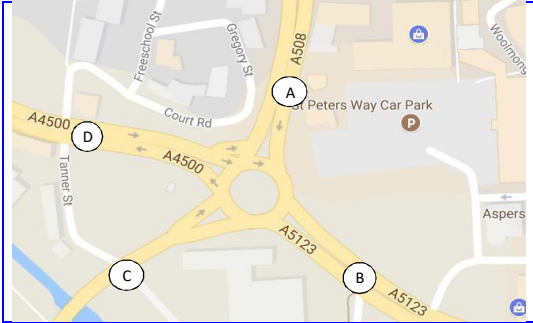
Car		MODELLED							TOTAL
		To Arm							
From Arm	A	0	2	0	36	30	0	0	68
	B	17	0	0	694	877	0	29	1617
	C	0	0	0	23	35	0	0	58
	D	173	375	0	0	408	0	35	991
	E	2	90	0	306	16	0	15	429
	F	189	0	0	138	25	0	116	468
	G	529	0	0	30	110	0	0	669
	TOTAL	910	467	0	1227	1501	0	195	4300

LGV		MODELLED							TOTAL
		To Arm							
From Arm	A	0	0	0	1	0	0	0	1
	B	1	0	0	16	20	0	0	37
	C	0	0	0	2	4	0	0	6
	D	6	14	0	0	23	0	2	45
	E	0	7	0	6	1	0	0	14
	F	9	0	0	4	1	0	4	18
	G	13	0	0	0	3	0	0	16
	TOTAL	29	21	0	29	52	0	6	137

HGV (PCU)		MODELLED							TOTAL
		To Arm							
From Arm	A	0	0	0	2	0	0	0	2
	B	0	0	0	12	30	0	0	42
	C	0	0	0	0	0	0	0	0
	D	1	4	0	0	40	0	0	45
	E	0	36	0	46	0	0	0	82
	F	0	0	0	1	0	0	0	1
	G	0	0	0	0	0	0	0	0
	TOTAL	1	40	0	61	70	0	0	172

Junction Turning Flows

Junction: **A4500/A5123/A508**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	30019	30012	60197	30019	Horse Market
B	30018	30013	60198	30018	St Peter's Way
C	30017	30014	60199	30017	Towcester
D	60194	30015	30014	60194	St Peter's Way
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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		MODELLED							TOTAL
		To Arm							
From Arm	PCU	A	B	C	D	E	F	G	
	A	0	404	488	20				
B	516	21	135	644					1316
C	1155	211	0	550					1916
D	58	1083	698	10					1849
E									
F									
G									
TOTAL		1729	1719	1321	1224				5993

By Vehicle Type:

		MODELLED							TOTAL
		To Arm							
From Arm	Car	A	B	C	D	E	F	G	
	A	0	359	463	19				
B	378	16	115	402					911
C	1107	204	0	512					1823
D	58	966	619	10					1653
E									
F									
G									
TOTAL		1543	1545	1197	943				5228

		MODELLED							TOTAL
		To Arm							
From Arm	LGV	A	B	C	D	E	F	G	
	A	0	15	14	1				
B	37	2	14	46					99
C	39	6	0	27					72
D	0	57	55	0					112
E									
F									
G									
TOTAL		76	80	83	74				313

		MODELLED							TOTAL
		To Arm							
From Arm	HGV (PCU)	A	B	C	D	E	F	G	
	A	0	30	11	0				
B	101	3	6	196					306
C	9	1	0	11					21
D	0	60	24	0					84
E									
F									
G									
TOTAL		110	94	41	207				452

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		MODELLED							TOTAL
		To Arm							
From Arm	PCU	A	B	C	D	E	F	G	
	A	0	564	897	4				
B	589	42	277	890					1798
C	699	55	0	267					1021
D	93	495	726	6					1320
E									
F									
G									
TOTAL		1381	1156	1900	1167				5604

By Vehicle Type:

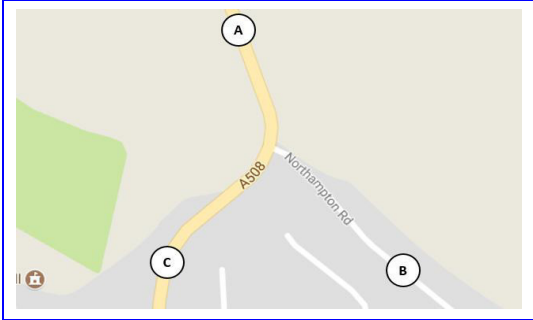
		MODELLED							TOTAL
		To Arm							
From Arm	Car	A	B	C	D	E	F	G	
	A	0	538	858	4				
B	524	41	261	817					1643
C	652	51	0	247					950
D	93	434	679	6					1212
E									
F									
G									
TOTAL		1269	1064	1798	1074				5205

		MODELLED							TOTAL
		To Arm							
From Arm	LGV	A	B	C	D	E	F	G	
	A	0	19	29	0				
B	26	1	7	35					69
C	22	4	0	19					45
D	0	16	21	0					37
E									
F									
G									
TOTAL		48	40	57	54				199

		MODELLED							TOTAL
		To Arm							
From Arm	HGV (PCU)	A	B	C	D	E	F	G	
	A	0	7	10	0				
B	39	0	9	38					86
C	25	0	0	1					26
D	0	45	26	0					71
E									
F									
G									
TOTAL		64	52	45	39				200

Junction Turning Flows

Junction: A508/Northampton Rd



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	83006	25176	25176	83006	A508 North
B	70605	25176	25176	70605	Northampton Road
C	70609	25176	25176	70609	A508 South
D					
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	193	74				267
	B	171	0	0				171
	C	67	0	0				67
	D							
	E							
	F							
	G							
TOTAL	239	193	74					506

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	190	62				253
	B	169	0	0				169
	C	54	0	0				54
	D							
	E							
	F							
	G							
TOTAL	223	190	62					475

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	3	2				5
	B	2	0	0				2
	C	0	0	0				0
	D							
	E							
	F							
	G							
TOTAL	3	3	2					7

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	10				10
	B	0	0	0				0
	C	13	0	0				13
	D							
	E							
	F							
	G							
TOTAL	13	0	10					23

PMNSTM2_2031_J1d_PM.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	140	307				447
	B	154	0	0				154
	C	319	0	0				319
	D							
	E							
	F							
	G							
TOTAL	473	140	307					921

By Vehicle Type:

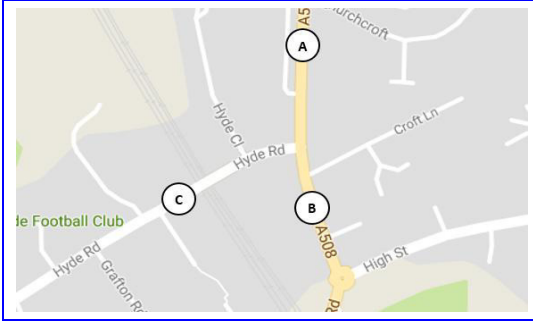
MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	140	265				405
	B	151	0	0				151
	C	308	0	0				308
	D							
	E							
	F							
	G							
TOTAL	459	140	265					864

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	3				4
	B	3	0	0				3
	C	1	0	0				1
	D							
	E							
	F							
	G							
TOTAL	4	0	3					8

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	38				38
	B	0	0	0				0
	C	10	0	0				10
	D							
	E							
	F							
	G							
TOTAL	10	0	38					49

Junction Turning Flows

Junction: A508/Hyde Rd



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	70609	81041	81041	70609	A508 North
B	21313	81041	81041	21313	A508 South
C	70607	81041	81041	70607	Hyde Road
D					
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

AMNSTM2_2031_J1d_AM_v4.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	176	19				195
	B	49	0	7				56
	C	5	149	0				153
	D							
	E							
	F							
	G							
	TOTAL	54	324	26				404

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	165	17				182
	B	36	0	5				41
	C	5	148	0				152
	D							
	E							
	F							
	G							
	TOTAL	40	313	22				375

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	1	1				2
	B	0	0	2				2
	C	0	1	0				1
	D							
	E							
	F							
	G							
	TOTAL	0	1	3				5

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	10	1				11
	B	13	0	0				13
	C	0	0	0				0
	D							
	E							
	F							
	G							
	TOTAL	13	10	1				25

PMNSTM2_2031_J1d_PM.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	233	38				271
	B	310	0	2				312
	C	0	136	0				136
	D							
	E							
	F							
	G							
	TOTAL	310	369	40				720

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	191	36				226
	B	300	0	2				303
	C	0	136	0				136
	D							
	E							
	F							
	G							
	TOTAL	300	326	38				665

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	1	2				3
	B	0	0	0				0
	C	0	1	0				1
	D							
	E							
	F							
	G							
	TOTAL	0	2	2				4

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	41	0				41
	B	10	0	0				10
	C	0	0	0				0
	D							
	E							
	F							
	G							
	TOTAL	10	41	0				51

Junction Turning Flows

Junction: **A508/High St mini-roundabout**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	81041	21313	21313	81041	A508 North
B	90009	21313	21313	90009	High Street
C	70611	21313	21313	70611	A508 South
D					
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

AMNSTM2_2031_J1d_AM_v4.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	172	152				324
	B	48	0	5				53
	C	8	8	0				16
	D							
	E							
	F							
	G							
TOTAL	56	180	157					393

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	161	152				313
	B	33	0	5				37
	C	8	3	0				10
	D							
	E							
	F							
	G							
TOTAL	41	163	157					361

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	1	0				2
	B	2	0	0				2
	C	0	0	0				0
	D							
	E							
	F							
	G							
TOTAL	2	2	0					4

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	10	0				10
	B	13	0	0				13
	C	0	6	0				6
	D							
	E							
	F							
	G							
TOTAL	13	15	0					29

PMNSTM2_2031_J1d_PM.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	207	162				369
	B	27	0	15				42
	C	285	8	0				294
	D							
	E							
	F							
	G							
TOTAL	312	215	177					705

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	166	162				328
	B	17	0	15				31
	C	285	8	0				294
	D							
	E							
	F							
	G							
TOTAL	302	174	177					653

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	2	0				2
	B	0	0	0				0
	C	0	0	0				0
	D							
	E							
	F							
	G							
TOTAL	0	2	0					2

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	40	0				40
	B	10	0	0				10
	C	0	0	0				0
	D							
	E							
	F							
	G							
TOTAL	10	40	0					50

Junction Turning Flows

Junction: **Courteenhall Rd/High St/Northampton Rd**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	2141	24766	24766	2141	Northampton Road
B	70849	24766	24766	70849	Courteenhall Road
C	81042	24766	24766	81042	High Street
D					
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

AMNSTM2_2031_J1d_AM_v4.DAT

MODELLED								
PCU	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	146	453				599
	B	31	0	27				57
	C	438	21	0				460
	D							
	E							
	F							
	G							
	TOTAL	469	168	479				

By Vehicle Type:

MODELLED								
Car	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	139	322				462
	B	31	0	27				57
	C	388	11	0				399
	D							
	E							
	F							
	G							
	TOTAL	419	150	349				

MODELLED								
LGV	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	7	89				96
	B	0	0	0				0
	C	44	7	0				52
	D							
	E							
	F							
	G							
	TOTAL	45	14	89				

MODELLED								
HGV (PCU)	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	41				41
	B	0	0	0				0
	C	6	3	0				9
	D							
	E							
	F							
	G							
	TOTAL	6	4	41				

PMNSTM2_2031_J1d_PM.DAT

MODELLED								
PCU	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	167	460				627
	B	19	0	21				39
	C	334	34	0				368
	D							
	E							
	F							
	G							
	TOTAL	353	201	481				

By Vehicle Type:

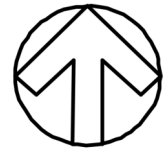
MODELLED								
Car	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	136	266				402
	B	18	0	20				37
	C	264	25	0				289
	D							
	E							
	F							
	G							
	TOTAL	282	160	286				

MODELLED								
LGV	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	31	18				49
	B	1	0	1				2
	C	29	1	0				30
	D							
	E							
	F							
	G							
	TOTAL	30	32	19				

MODELLED								
HGV (PCU)	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	176				176
	B	0	0	0				0
	C	41	8	0				50
	D							
	E							
	F							
	G							
	TOTAL	41	8	176				

2031 DEVELOPMENT CASE
WITH HIGHWAY MITIGATION (J1d SCENARIO)

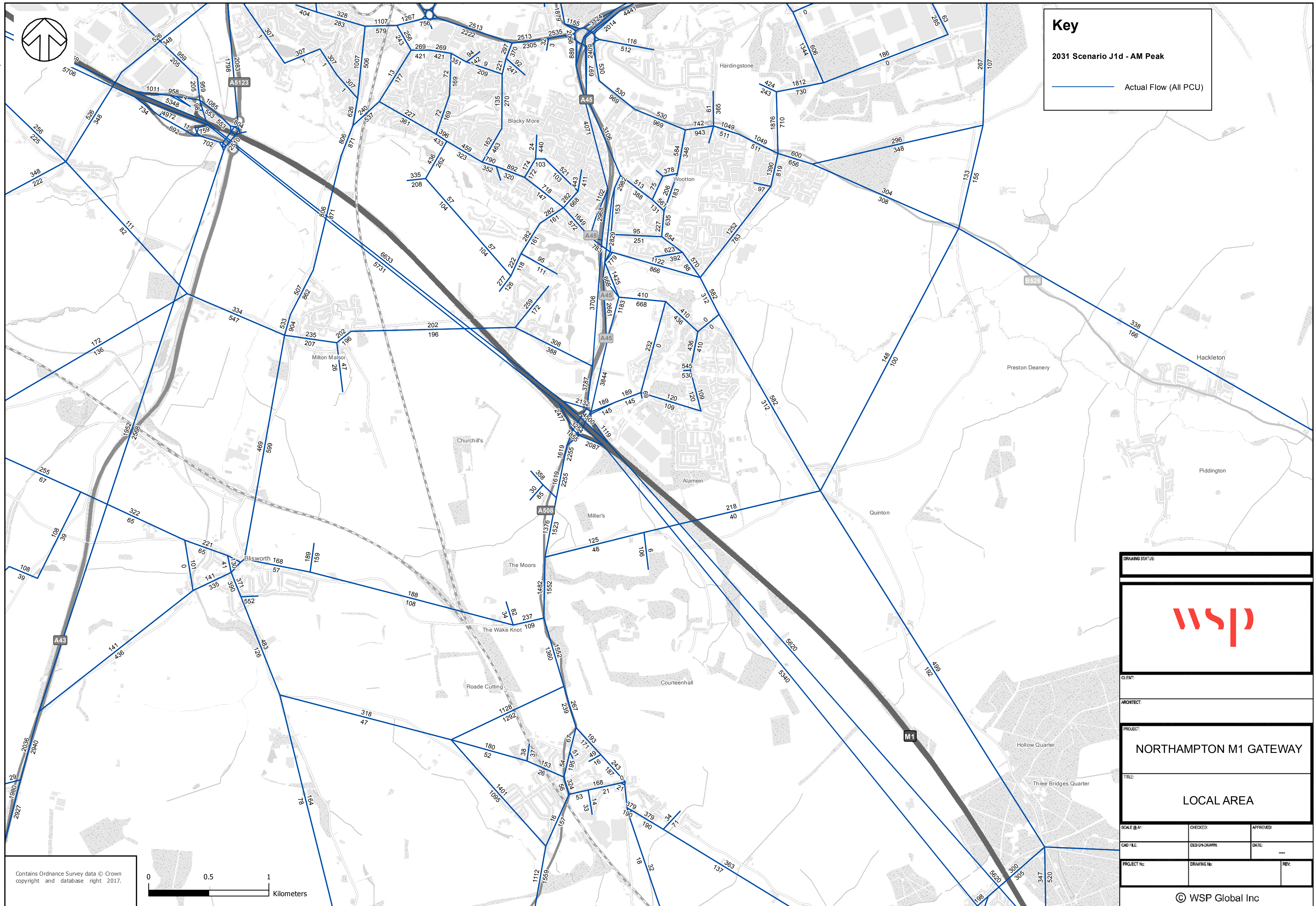
NSTM2 Actual Flow Plots (link flows)



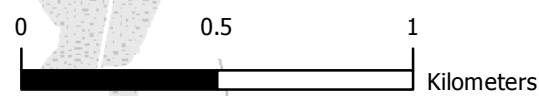
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2031 Scenario J1d - AM Peak

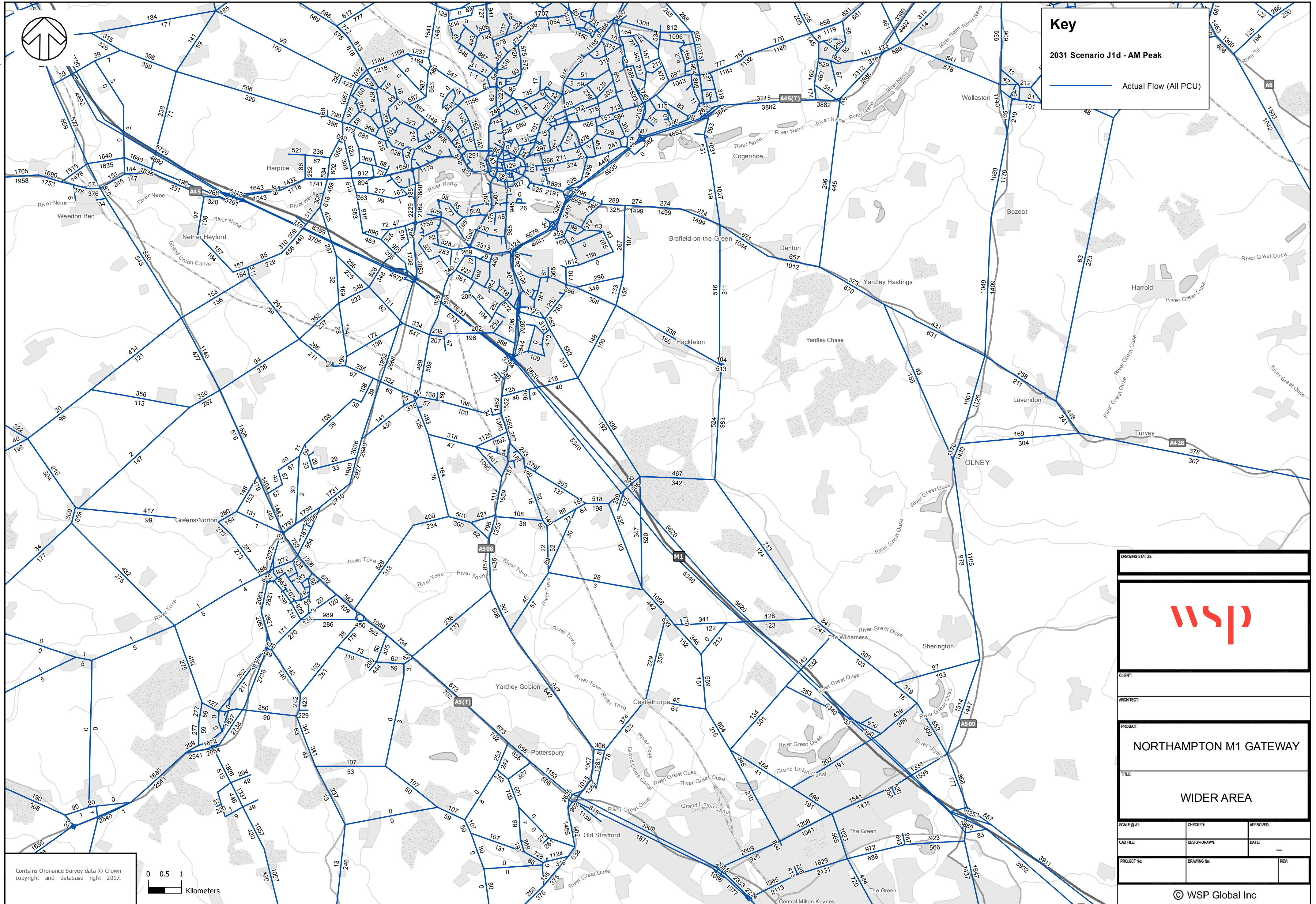
— Actual Flow (All PCU)



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2031 Scenario J1d - AM Peak

Actual Flow (All PCU)

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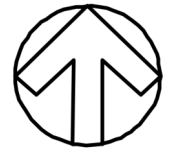
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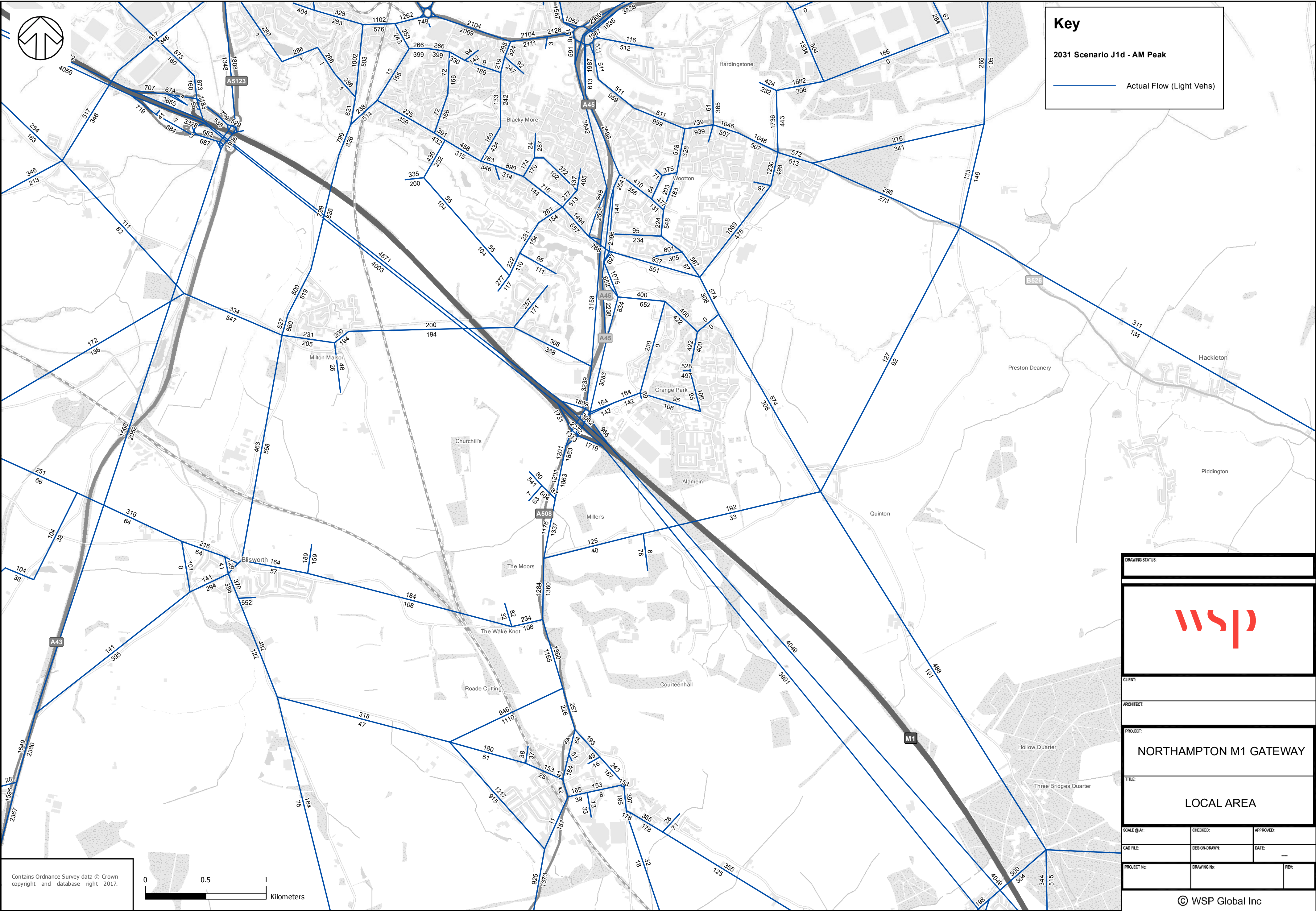
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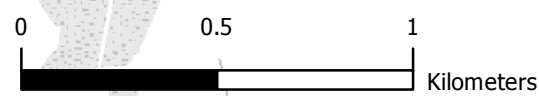
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2031 Scenario J1d - AM Peak

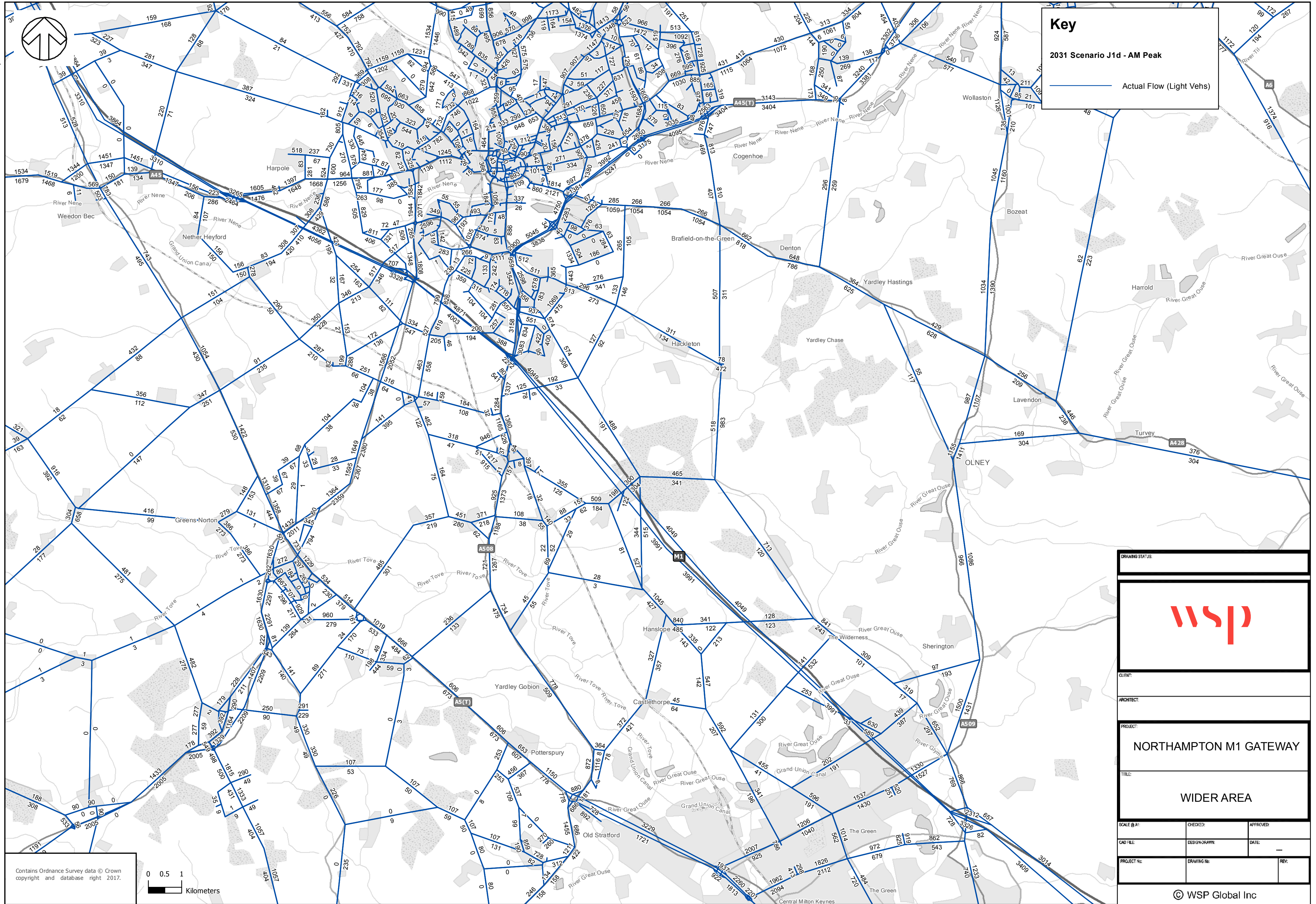
— Actual Flow (Light Vehs)



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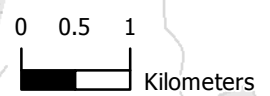


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2031 Scenario J1d - AM Peak

Actual Flow (Light Vehs)

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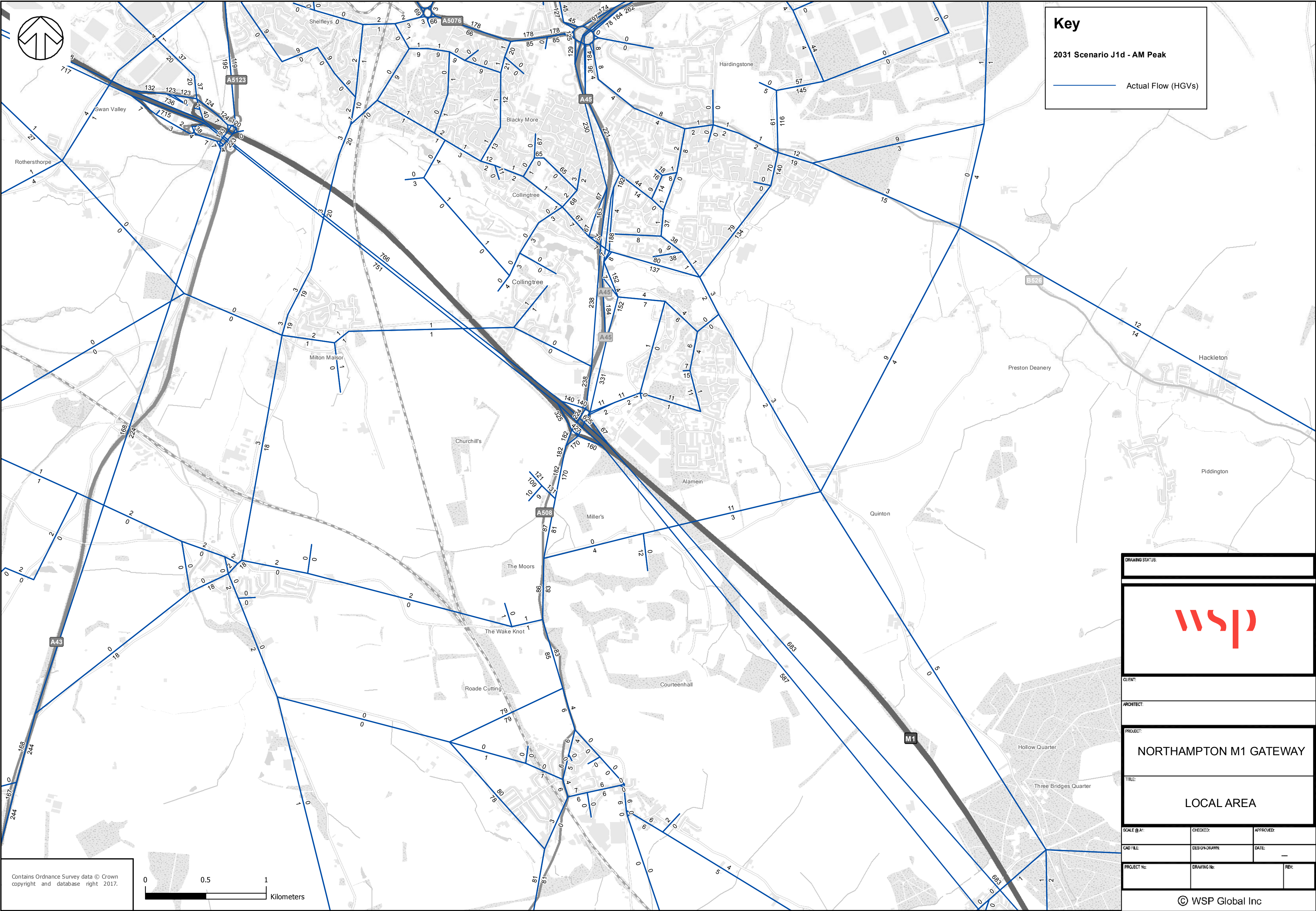
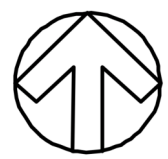
NORTHAMPTON M1 GATEWAY

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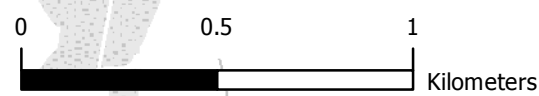


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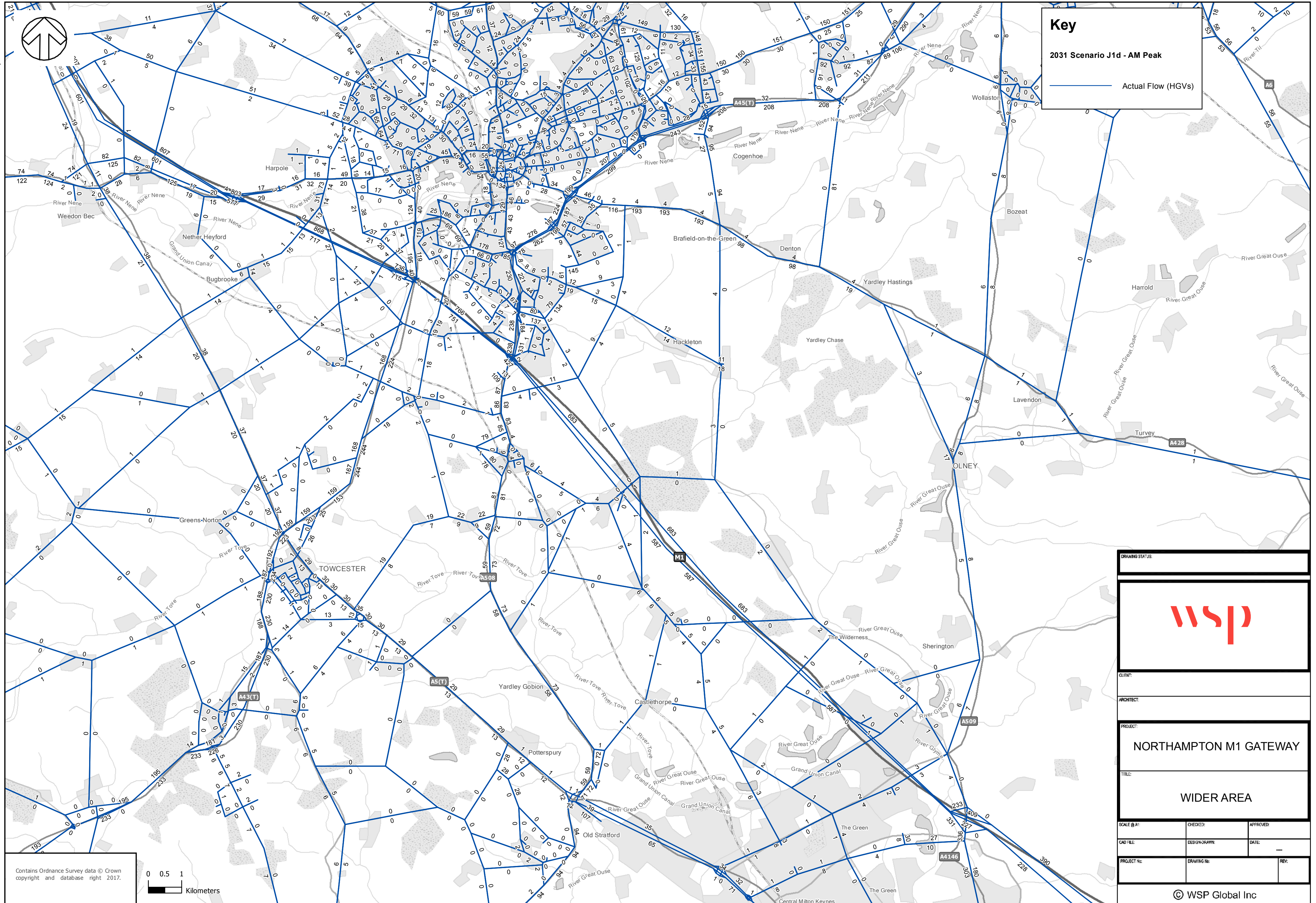
2031 Scenario J1d - AM Peak

— Actual Flow (HGVs)

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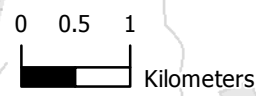


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— Actual Flow (HGVs)

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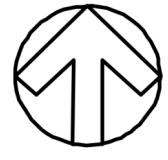
NORTHAMPTON M1 GATEWAY

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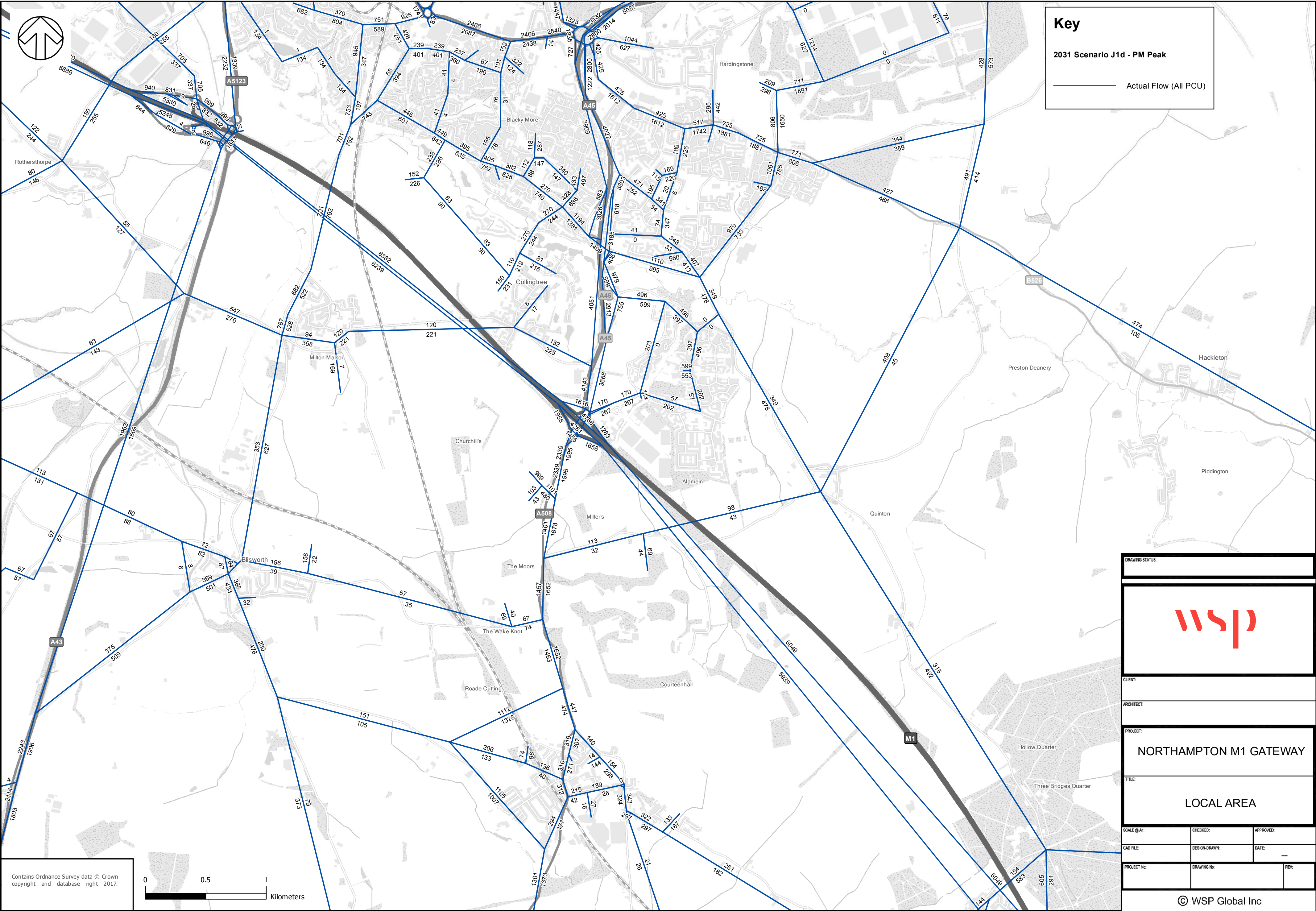
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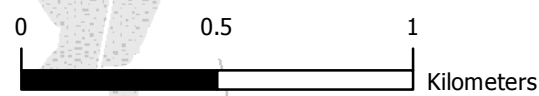
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2031 Scenario J1d - PM Peak

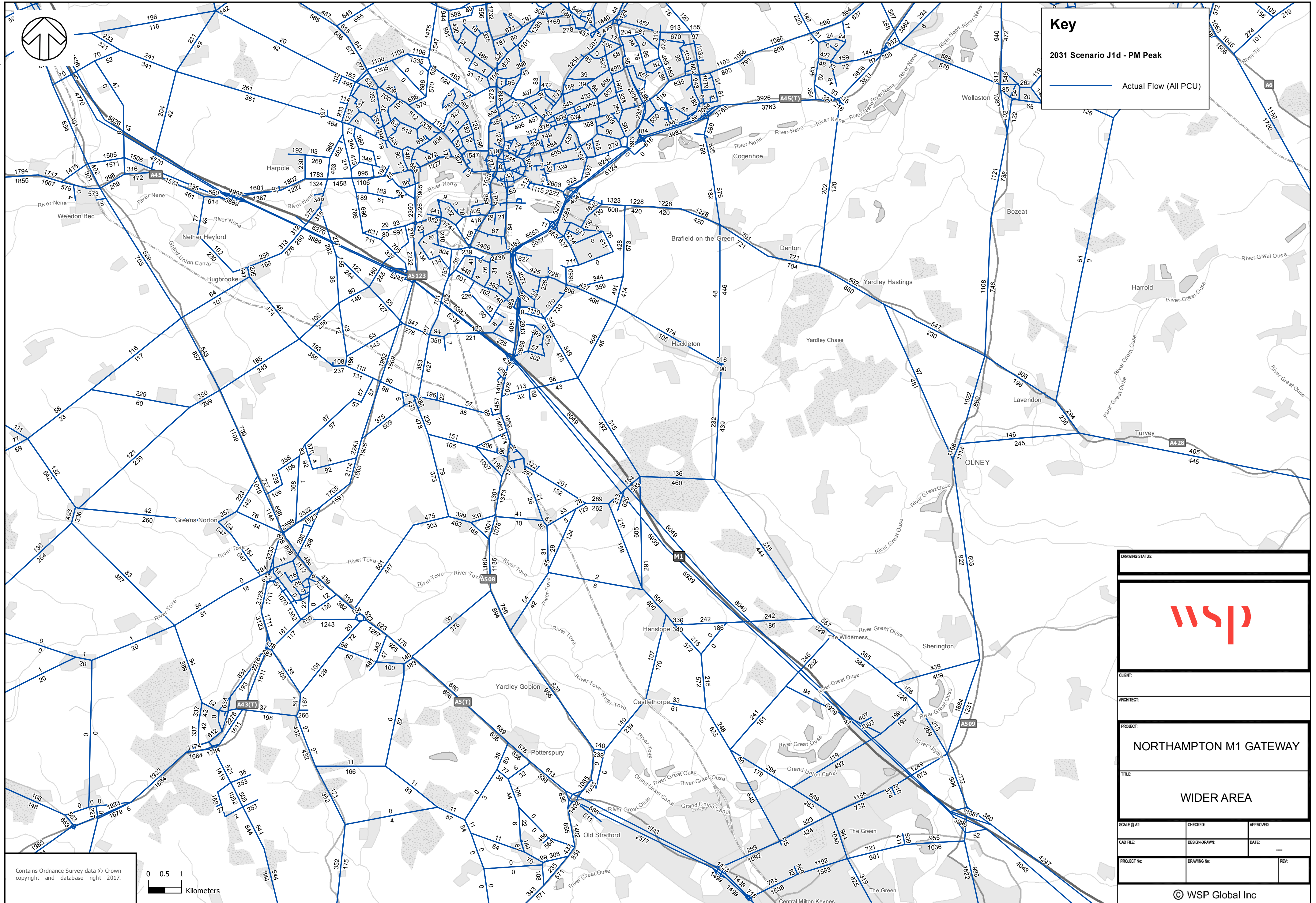
— Actual Flow (All PCU)



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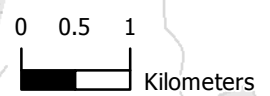


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2031 Scenario J1d - PM Peak

— Actual Flow (All PCU)

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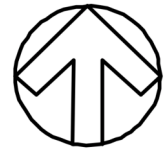
NORTHAMPTON M1 GATEWAY

TITLE:

WIDER AREA

SCALE @ A:	CHECKED:	APPROVED:
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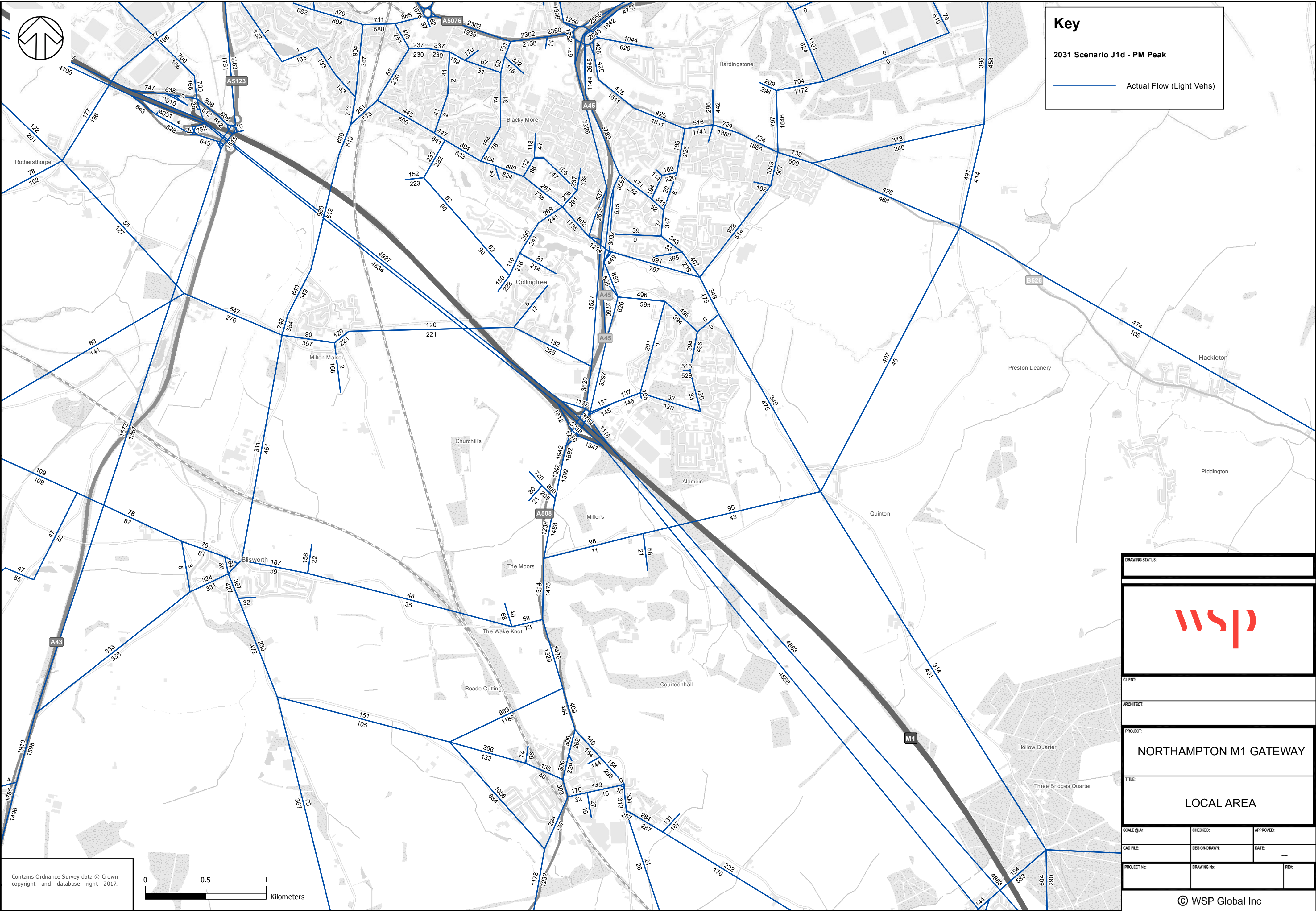
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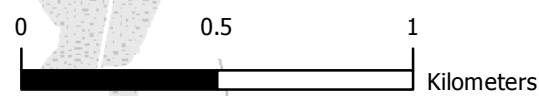
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2031 Scenario J1d - PM Peak

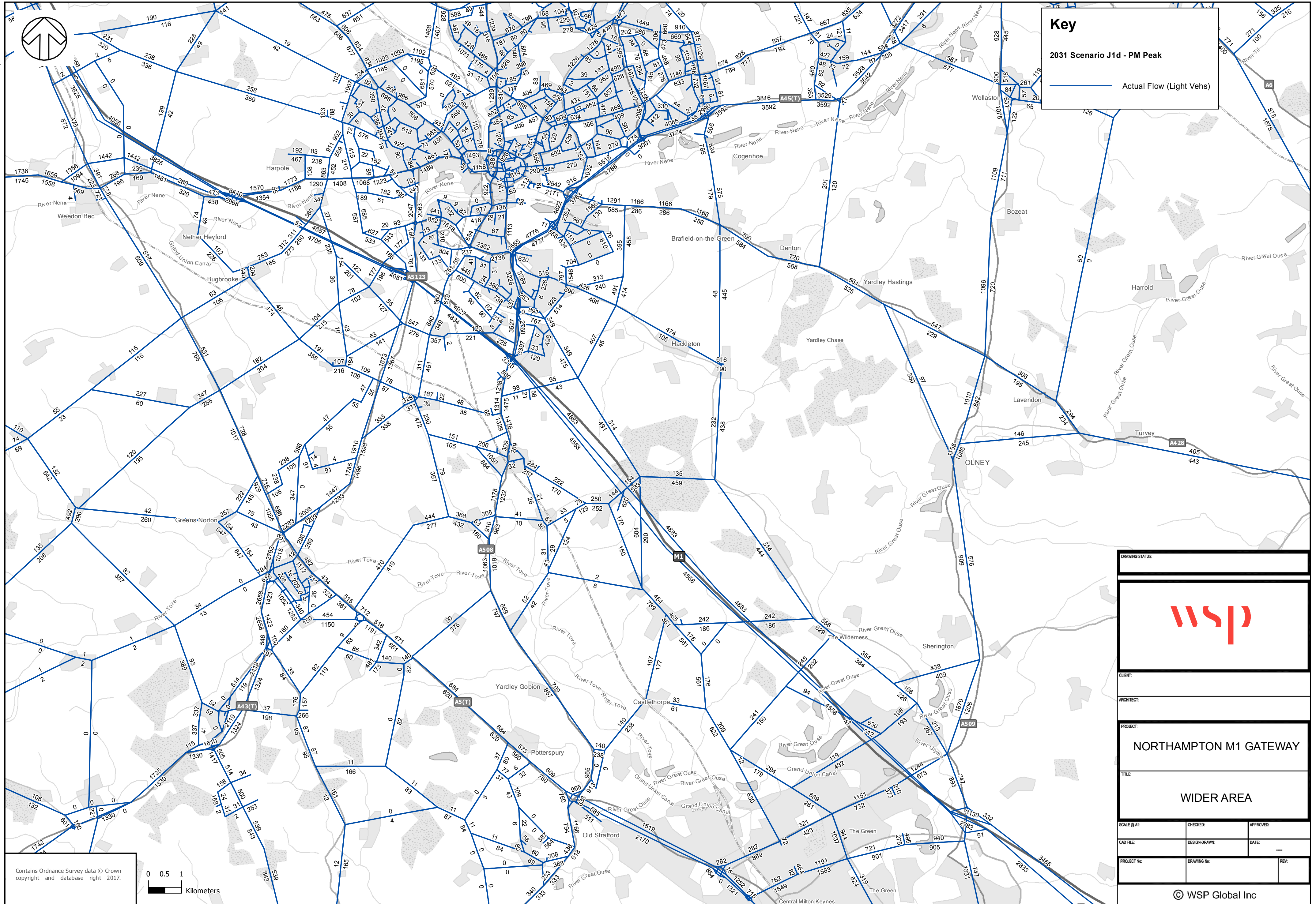
— Actual Flow (Light Vehs)



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TITLE: LOCAL AREA		
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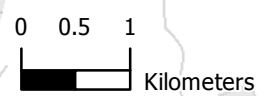


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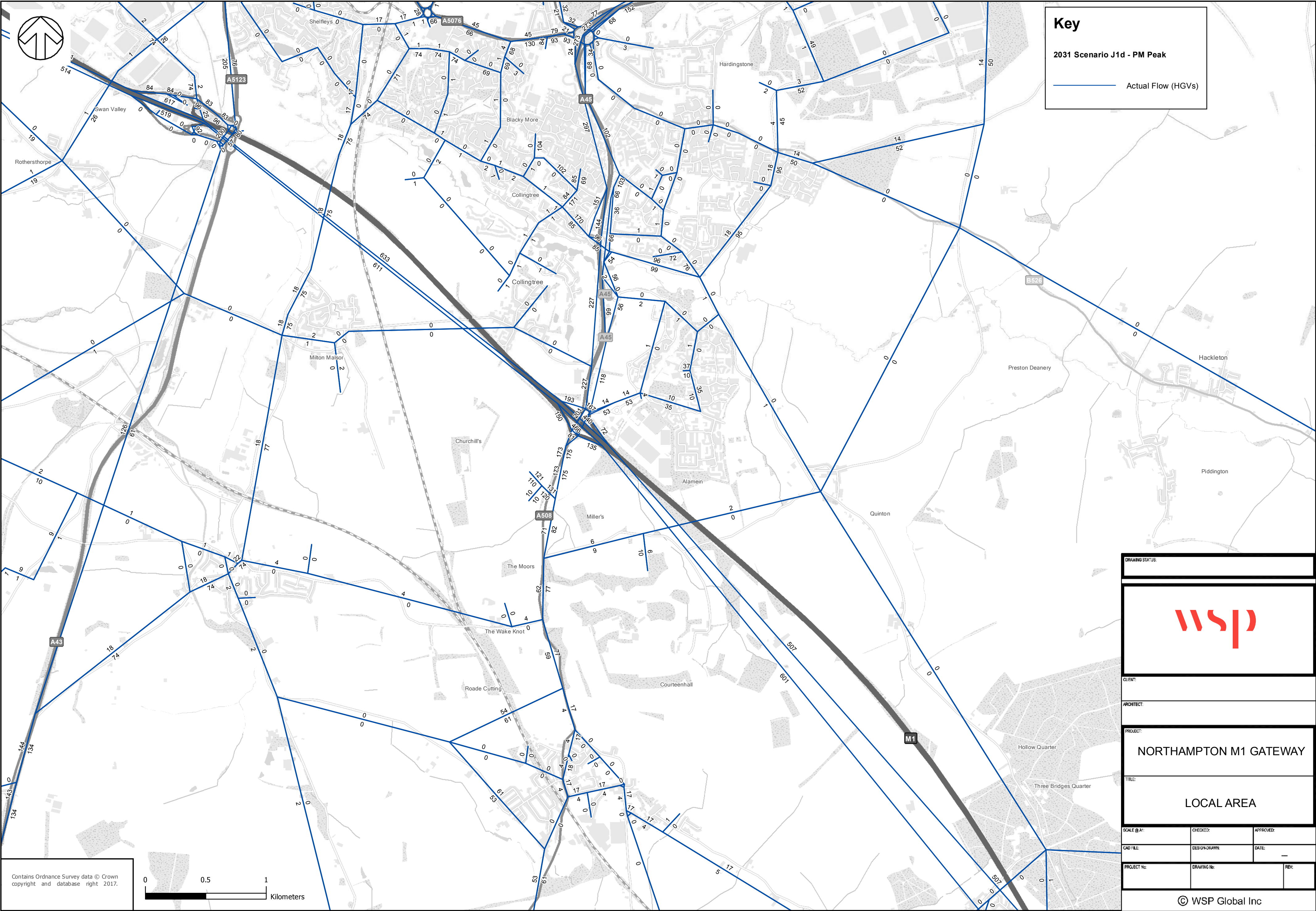
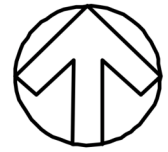
2031 Scenario J1d - PM Peak

— Actual Flow (Light Vehs)

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ARCHITECT:		
PROJECT:		
NORTHAMPTON M1 GATEWAY		
TITLE:		
WIDER AREA		
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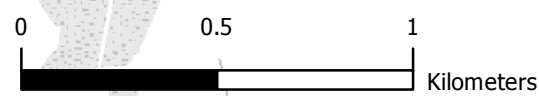


Key

2031 Scenario J1d - PM Peak

— Actual Flow (HGVs)

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DRAWING STATUS:



CLIENT:

ARCHITECT:

PROJECT:

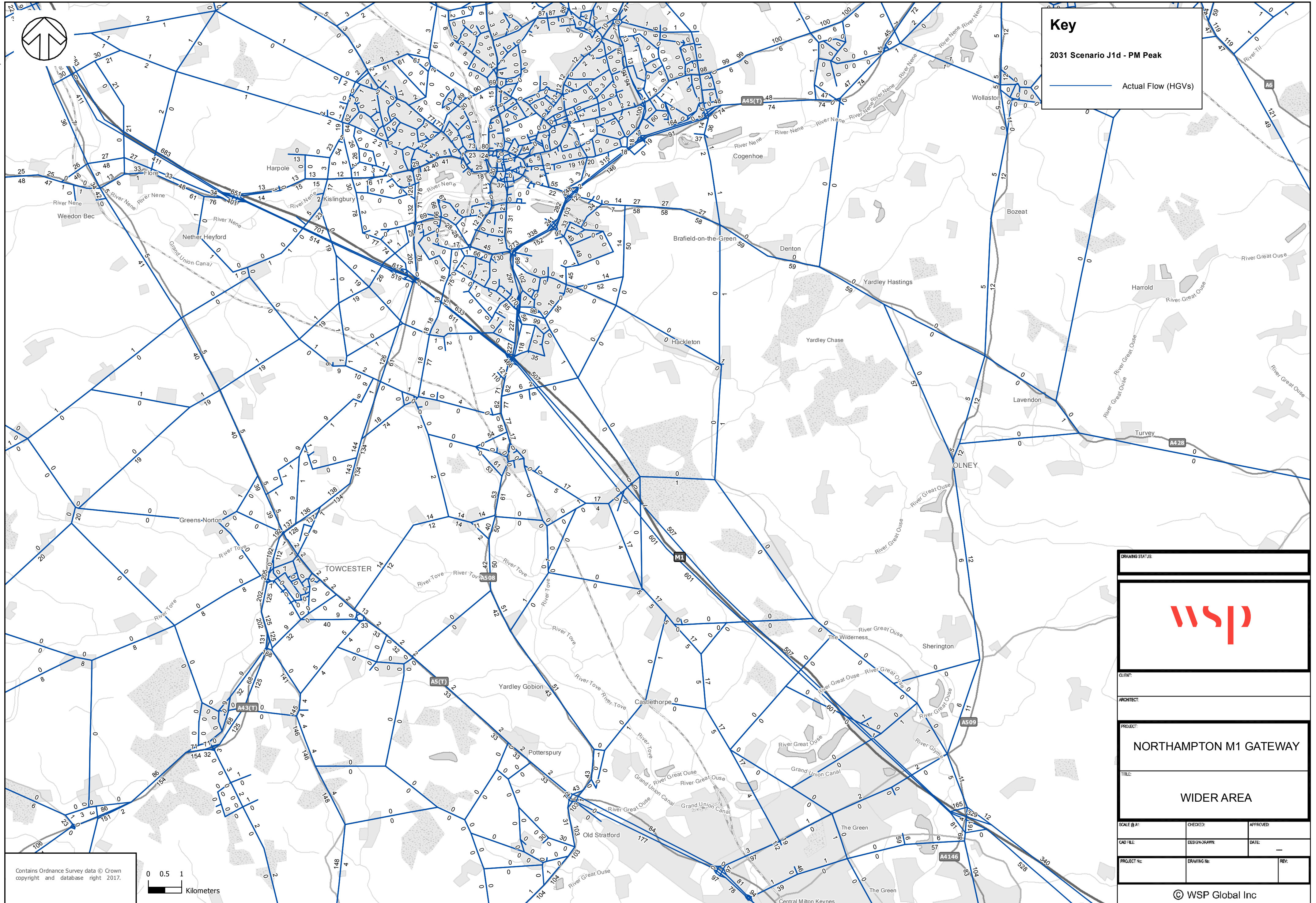
NORTHAMPTON M1 GATEWAY

TITLE:

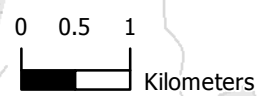
LOCAL AREA

SCALE @ A:	CHECKED:	APPROVED:
CAD FILE:	DESIGN/DRAWN:	DATE:
PROJECT No:	DRAWING No:	REV:

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Key

2031 Scenario J1d - PM Peak

— Actual Flow (HGVs)

DRAWING STATUS:



CLIENT:

ARCHITECT:

PROJECT:

NORTHAMPTON M1 GATEWAY

TITLE:

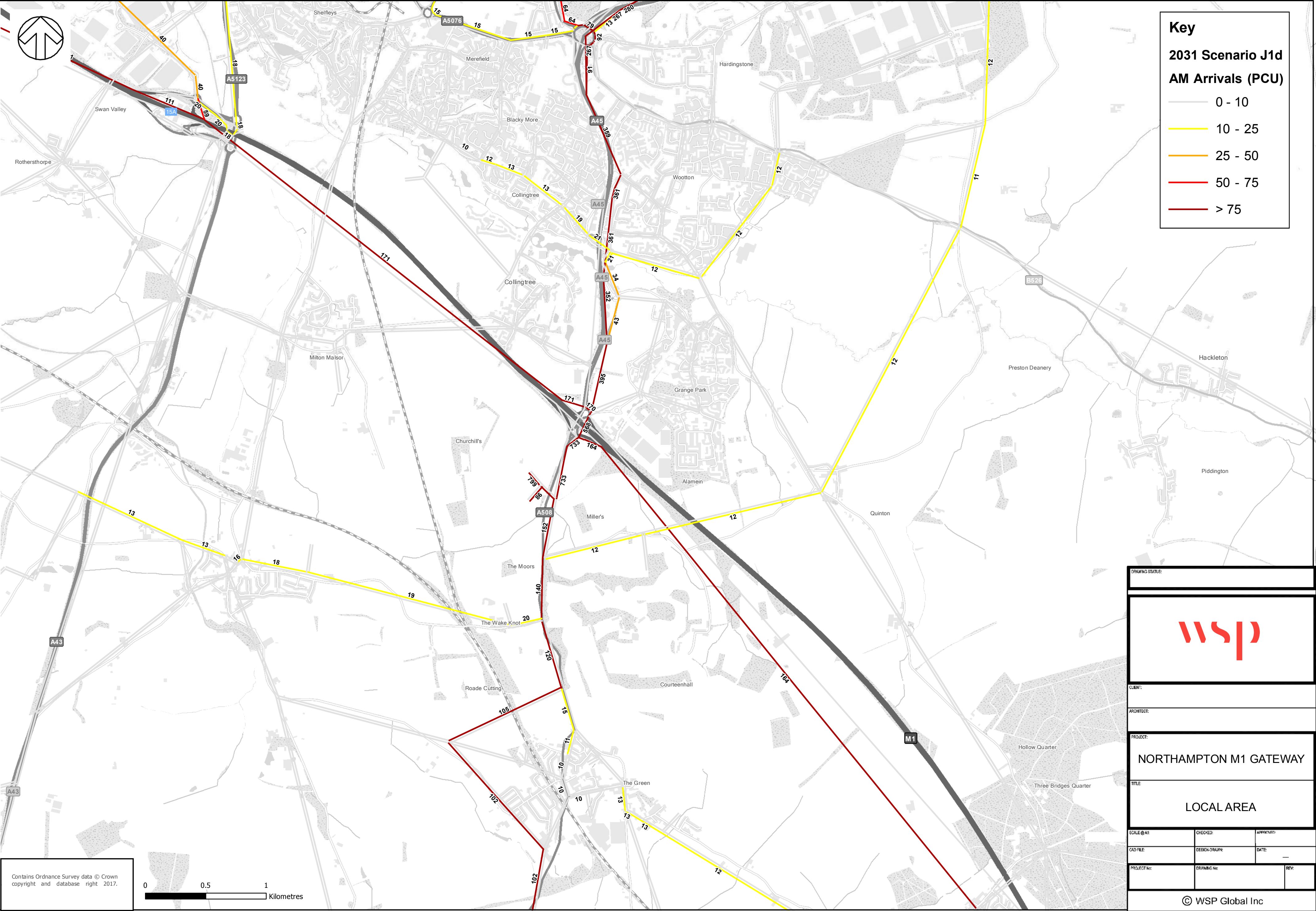
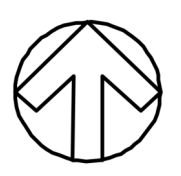
WIDER AREA

SCALE @ A:	CHECKED:	APPROVED:
CAD FILE:	DESIGN/DRAWN:	DATE:
PROJECT No:	DRAWING No:	REV:

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2031 DEVELOPMENT CASE
WITH HIGHWAY MITIGATION (J1d SCENARIO)

NSTM2 Select Link Analysis



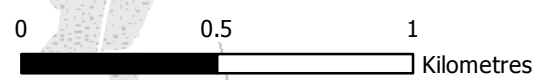
Key

2031 Scenario J1d

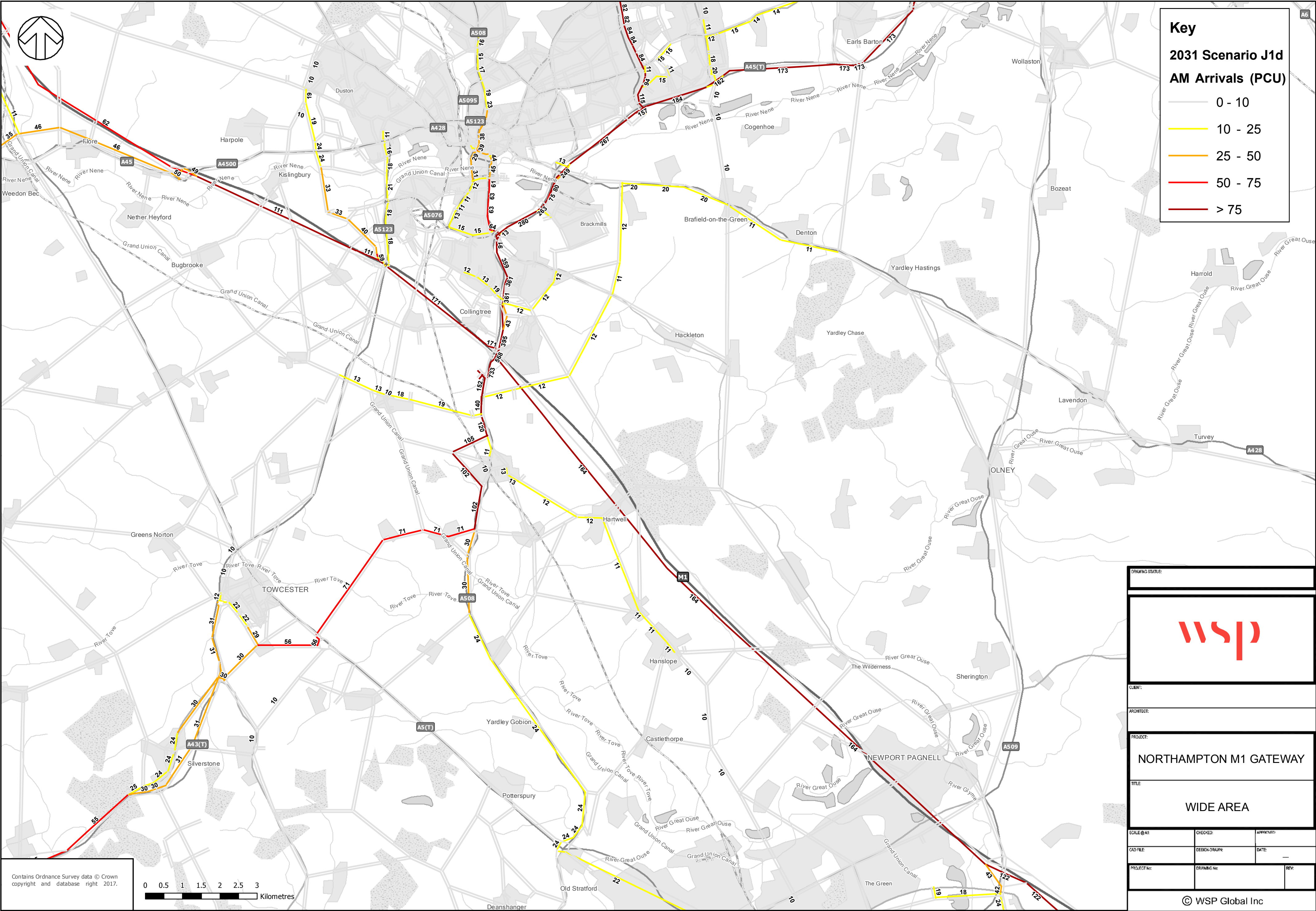
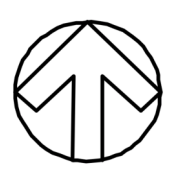
AM Arrivals (PCU)

- 0 - 10
- 10 - 25
- 25 - 50
- 50 - 75
- > 75

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DRAWING STATUS:		
CLIENT:		
ARCHITECT:		
PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: LOCAL AREA		
SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN/DRAWN:	DATE:
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© WSP Global Inc		



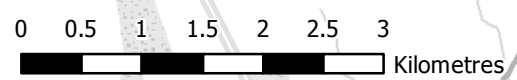
Key

2031 Scenario J1d


AM Arrivals (PCU)

- 0 - 10
- 10 - 25
- 25 - 50
- 50 - 75
- > 75

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DRAWING STATUS:



CLIENT:

ARCHITECT:

PROJECT:

NORTHAMPTON M1 GATEWAY

TITLE:

WIDE AREA

SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN DRAWING:	DATE:
PROJECT No.:	DRAWING No.:	REV.:

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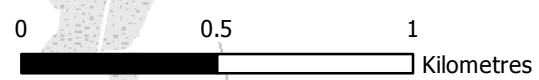
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2031 Scenario J1d

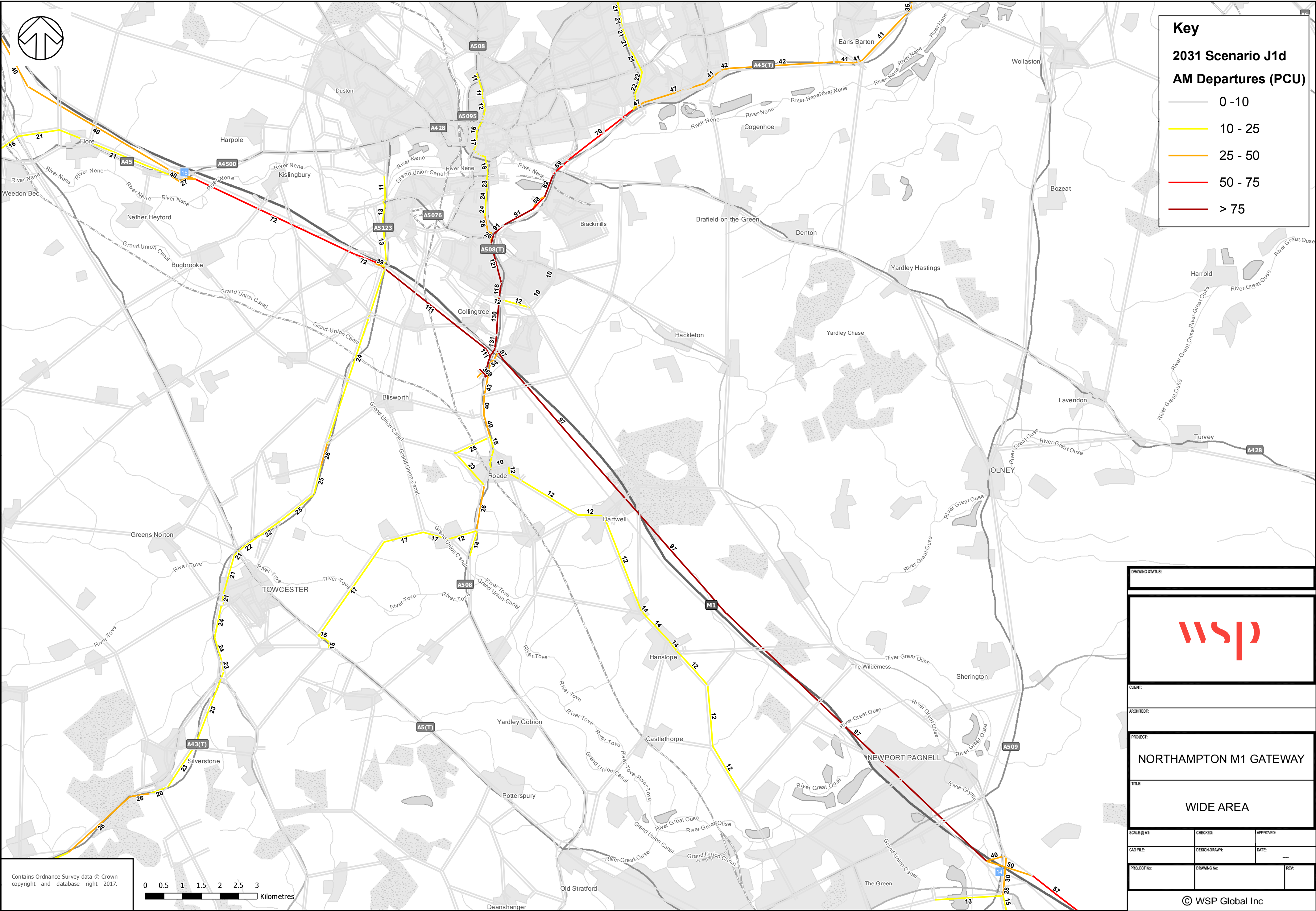
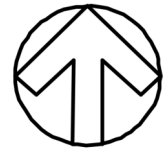
AM Departures (PCU)

- 0 - 10
- 10 - 25
- 25 - 50
- 50 - 75
- > 75

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DRAWING STATUS:		
		
CLIENT:		
ARCHITECT:		
PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: LOCAL AREA		
SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN DRAWING:	DATE:
PROJECT No.:	DRAWING No.:	REV:
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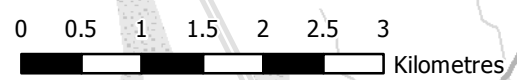
Key

2031 Scenario J1d


AM Departures (PCU)

- 0 - 10
- 10 - 25
- 25 - 50
- 50 - 75
- > 75

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DRAWING STATUS:



CLIENT:

ARCHITECT:

PROJECT:

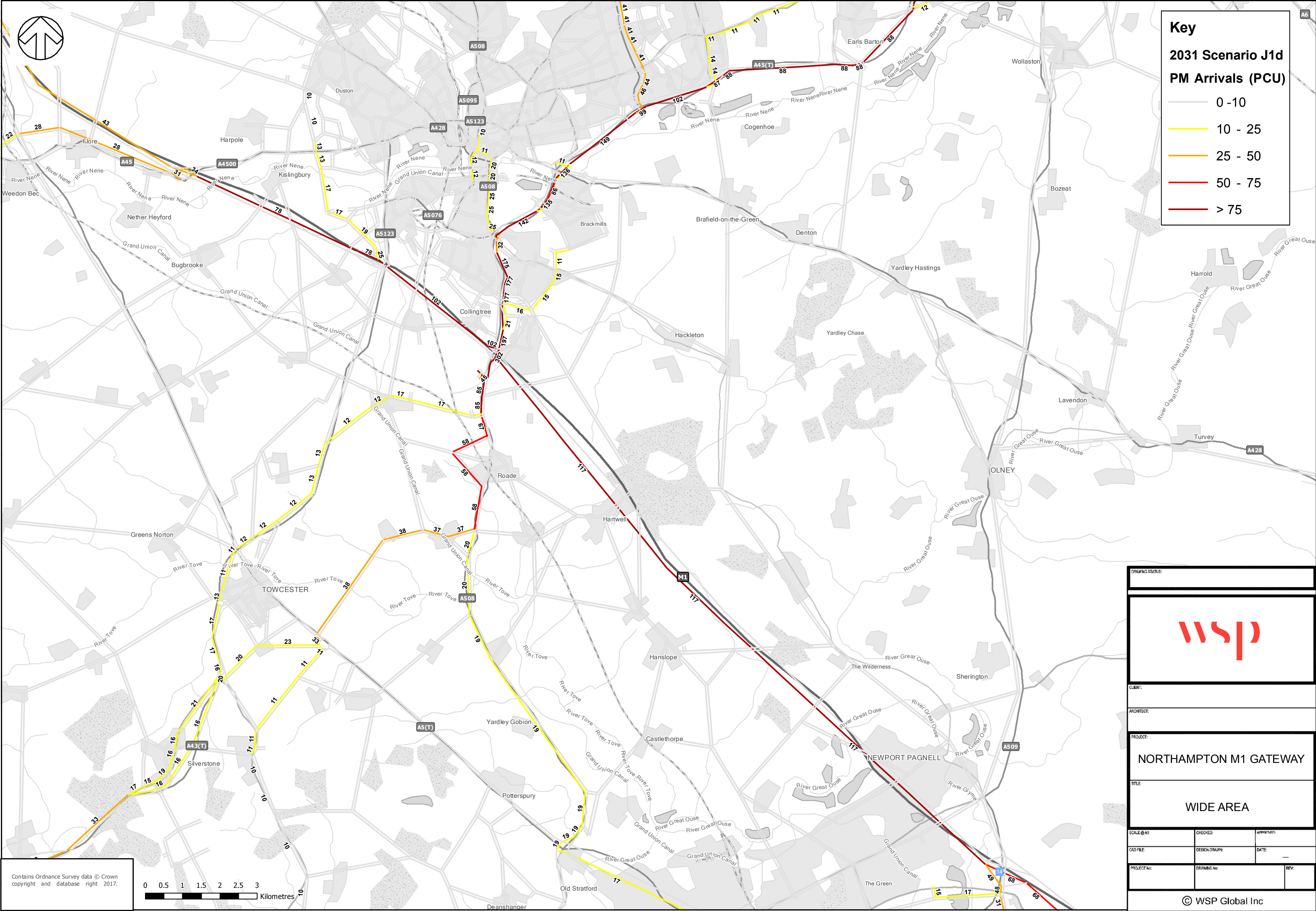
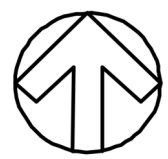
NORTHAMPTON M1 GATEWAY

TITLE:

WIDE AREA

SCALE @ A1	CHECKED:	APPROVED:
CAD FILE:	DESIGN/DRAWN:	DATE:
PROJECT No:	DRAWING No:	REV:

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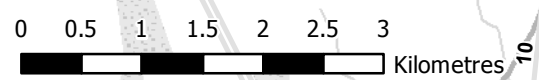
Key

2031 Scenario J1d


PM Arrivals (PCU)

- 0 - 10
- 10 - 25
- 25 - 50
- 50 - 75
- > 75

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DRAWING STATUS:



CLIENT:

ARCHITECT:

PROJECT:

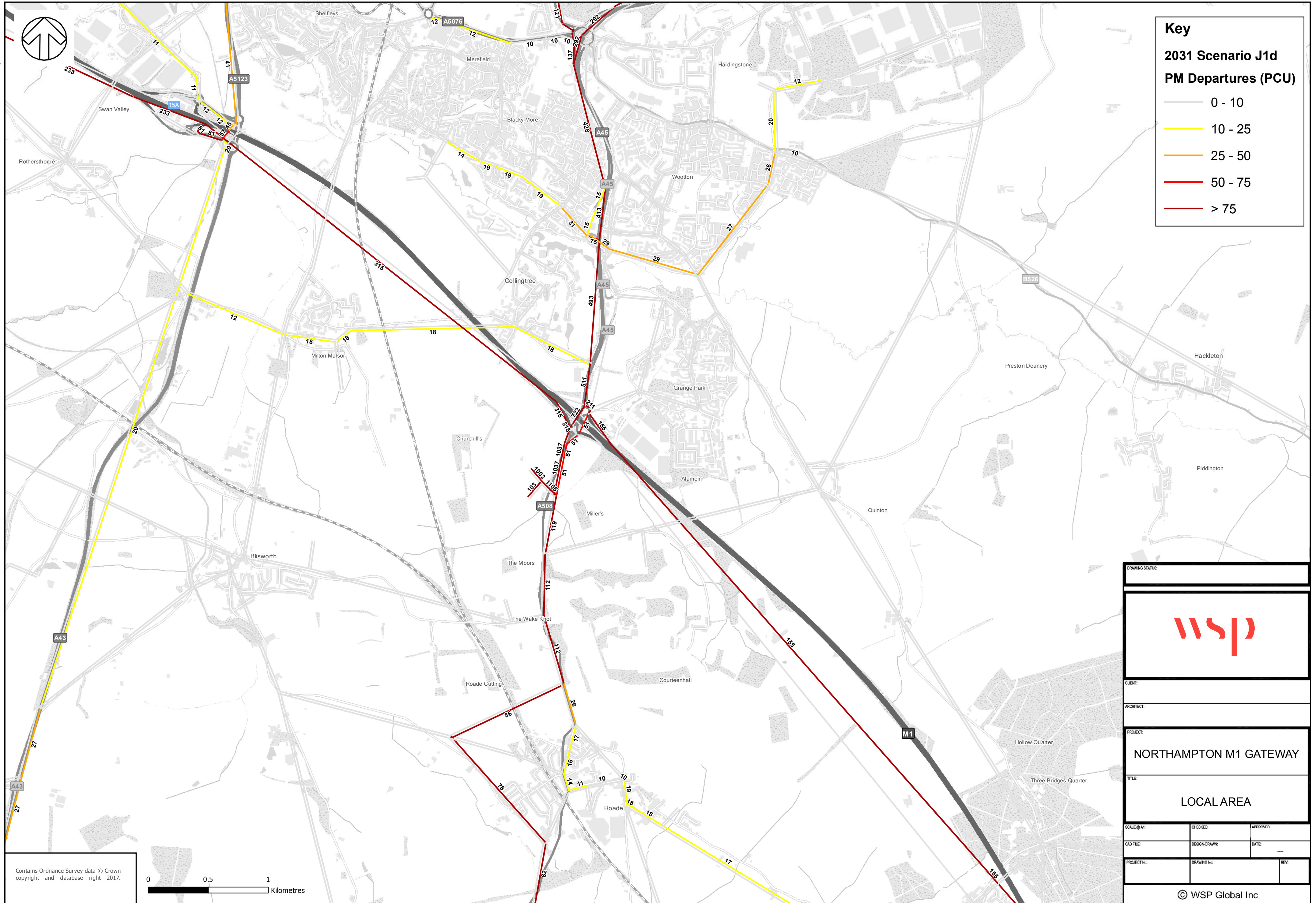
NORTHAMPTON M1 GATEWAY

TITLE:

WIDE AREA

SCALE @ A1	CHECKED:	APPROVED:
CAD FILE:	DESIGN DRAWING:	DATE:
PROJECT No:	DRAWING No:	REV:

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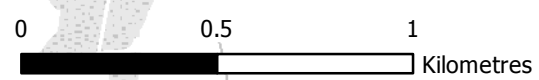
Key

2031 Scenario J1d

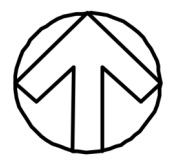
PM Departures (PCU)

- 0 - 10
- 10 - 25
- 25 - 50
- 50 - 75
- > 75

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DRAWING STATUS:		
CLIENT:		
ARCHITECT:		
PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: LOCAL AREA		
SCALE @A1:	CHECKED:	APPROVED:
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PROJECT No.:	DRAWING No.:	REV:
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Key

2031 Scenario J1d


PM Departures (PCU)

- 0 - 10
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DRAWING STATUS:



CLIENT:

ARCHITECT:

PROJECT:

NORTHAMPTON M1 GATEWAY

TITLE:

WIDE AREA

SCALE @ A1:	CHECKED:	APPROVED:
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PROJECT No.:	DRAWING No.:	REV:

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