

Medworth Energy from Waste Combined Heat and Power Facility



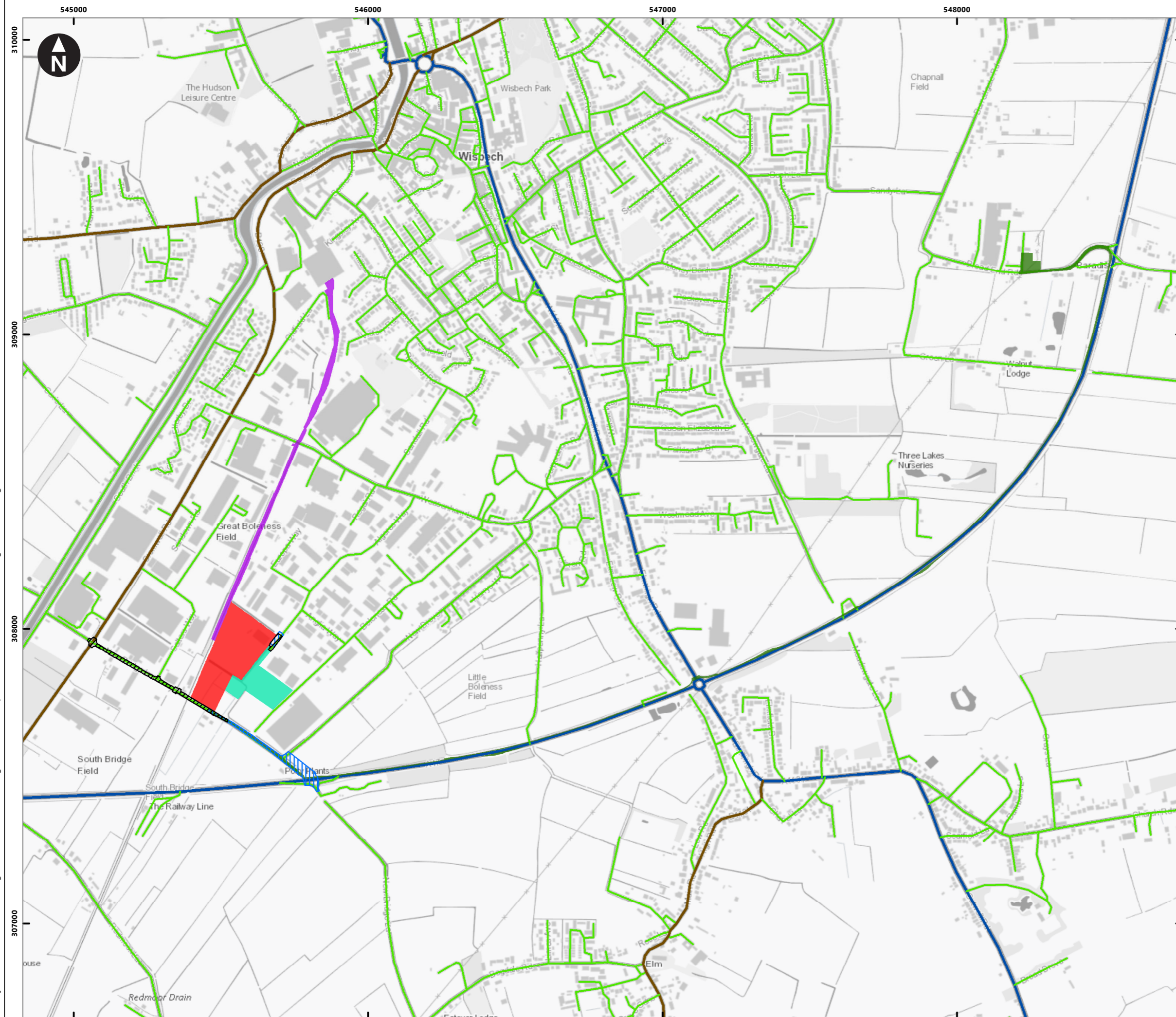
PINS ref. EN010110
Document Reference: Vol 6.3
Revision 1.0
June 2022

Environmental Statement Chapter 6 Traffic and Transport Figures

Regulation reference: The Infrastructure
Planning (Applications: Prescribed Forms
and Procedure) Regulations 2009
Regulation 5(2)(a)

**We inspire
with energy.**

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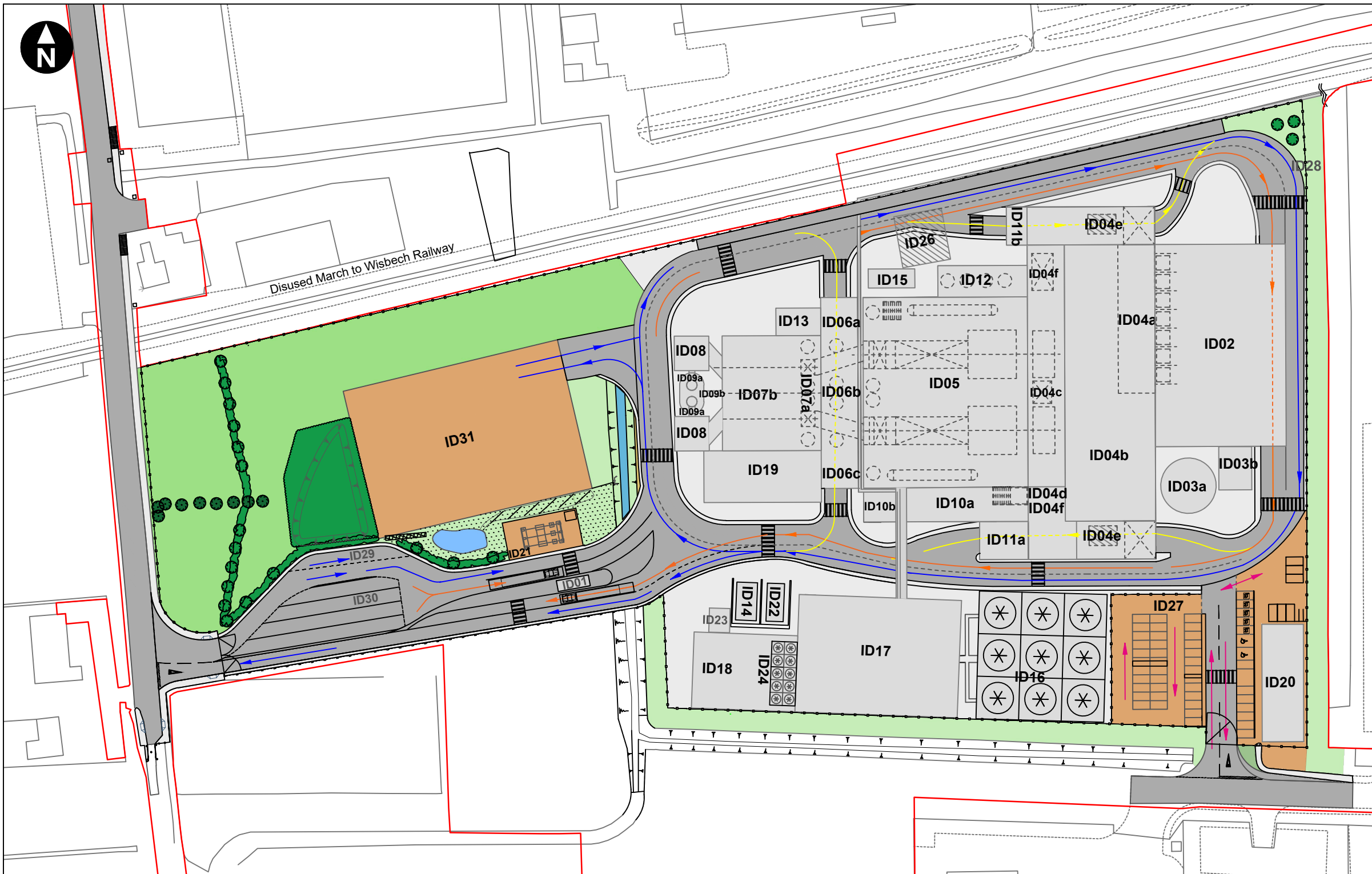
- Key
- EFW CHP Facility Site
 - CHP Connection
 - Temporary Construction Compound
 - Grid Connection
 - Access Improvements
 - Water Connections
- Local Road Network**
- A Road
 - B Road
 - Other Adopted Roads

0 250 500 750 m
 Scale at A3: 1:12,500
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 Chapter 6 - Traffic and Transport

Figure 6.1
Proposed Development Components and Local Highways Network



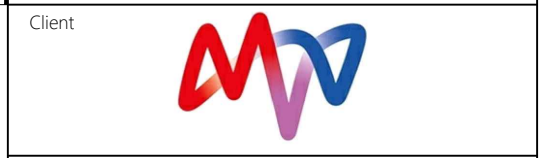
- Key
- ID01: Gatehouse/weighbridge
 - ID02: Tipping hall
 - ID03: Fire water tank & fire water pump cabin
 - (ID03a): Fire water tank
 - (ID03b): Fire water pump
 - ID04: Waste bunker building
 - (ID04a): Tipping bunker
 - (ID04b): Main waste bunker
 - (ID04c): Main waste chute
 - (ID04d): Control room
 - (ID04e): Crane maintenance area
 - (ID04f): IBA storage bunker and loading areas
 - ID05: Boiler house building
 - ID06: Air pollution control storage area
 - (ID06a): Loading area
 - (ID06b): APCr silos
 - (ID06c): Loading area
 - ID07: Air pollution control building
 - (ID07a): APC plant, silos and reactors
 - (ID07b): Bag filter houses
 - ID08: Induced draft fans cabins
 - ID09: Chimneys & continuous emission monitoring systems (CEMS)
 - (ID09a): 2x chimneys
 - (ID09b): CEMS platform
 - ID10: Switch gear building
 - (ID10a): Switch gear building north
 - (ID10b): Switch gear building south
 - ID11: IDB loading enclosures
 - (ID11a): IDB loading enclosures east
 - (ID11b): IDB loading enclosures west
 - ID12: Diesel tanks and urea tanks building
 - ID13: Compressed air station
 - ID14: Main transformer
 - ID15: Emergency diesel generator
 - ID16: Air cooled condenser
 - ID17: Turbine hall
 - ID18: Water treatment plant
 - ID19: Workshop and stores
 - ID20: Administration building
 - ID21: 132kV Switching compound
 - ID22: Private wire transfer
 - ID23: Private wire switchgear compound
 - ID24: Water re-cooling system
 - ID25: Steam and condensate plates
 - (ID25a): Steam and condensate pipelines to/from boiler house building
 - (ID25b): Steam and condensate pipelines to/from CHP connection
 - ID26: Mobile crane slab
 - ID27: Parking area
 - ID28: Fence/gates line
 - ID29: Layby
 - ID30: Vehicle queuing area
 - ID31: Laydown maintenance area



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- Notes:**
- 1) For outline surface water drainage details, see figures 4.2 Outline Drainage Strategy for Operational Phase
 - 2) For outline landscaping details, see Figure 3.14 Outline Landscaping and Ecology Strategy Landscaping

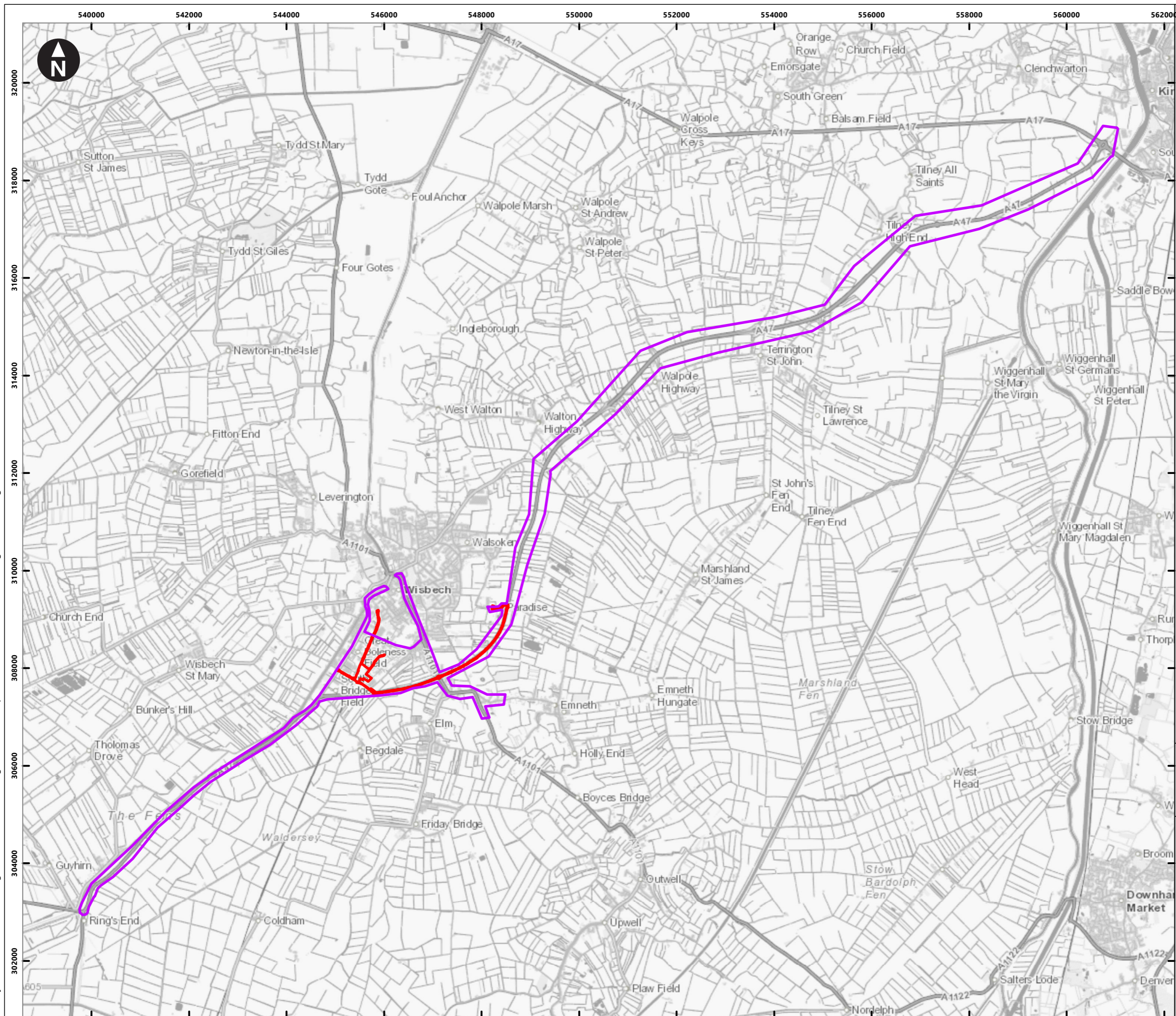
- Key:**
- Order limits
 - Vehicle Circulation:
 - Vehicle movements over weighbridge
 - Waste deliveries IBA, APCr and consumables
 - Vehicle movements bypassing weighbridge
 - Staff and visitors



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Figure 6.2
Proposed Development in the operational period

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Key

- Order limits
- Study Area

0 500 1,000 1,500 2,000 2,500 3,000 3,500 4,000 4,500m

Scale at A3: 1:75,000

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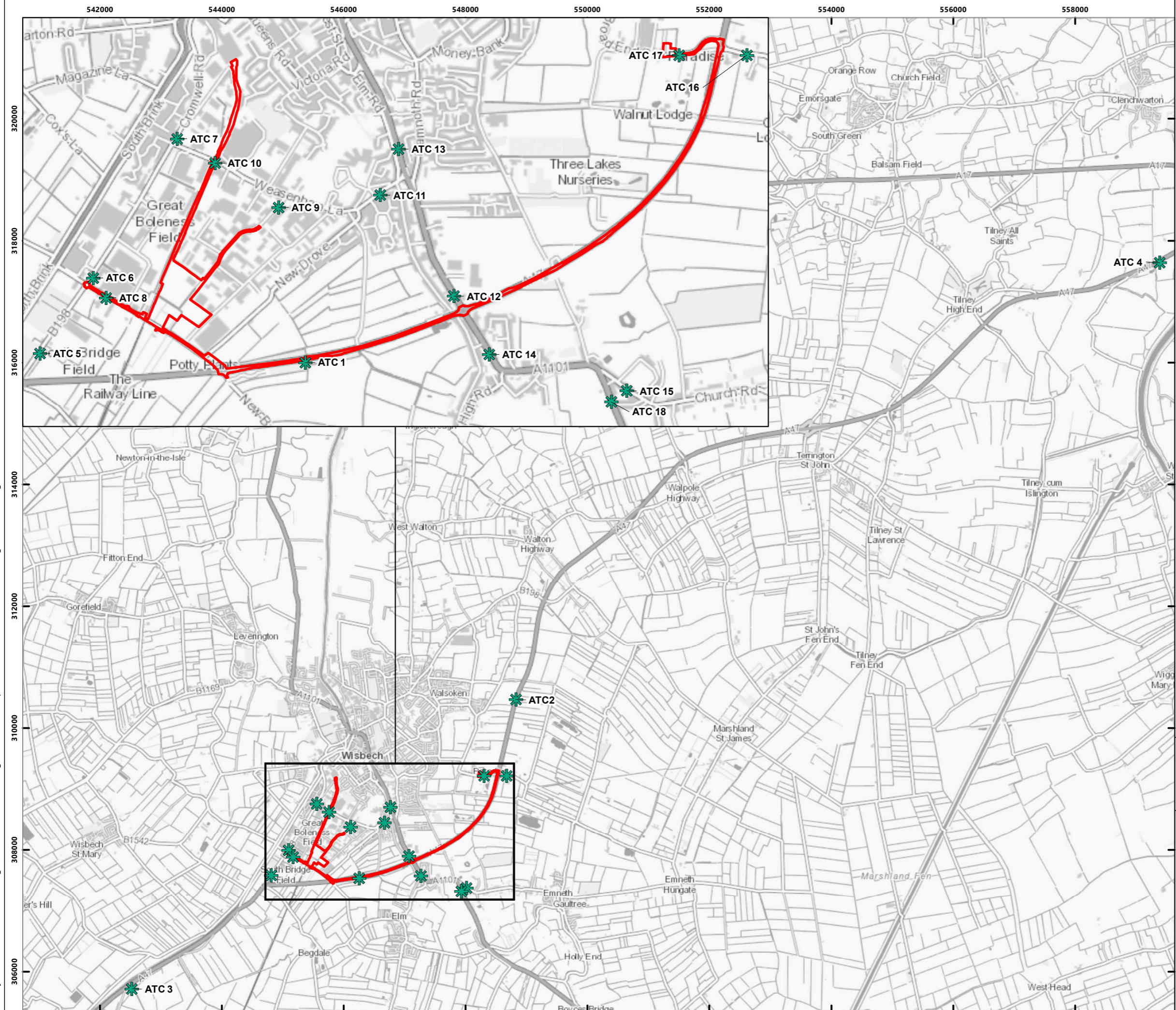


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Figure 6.3
Scope of Assessment

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Key

- Order limits
- Highway link - ATC

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Scale at A3: 1:60,000

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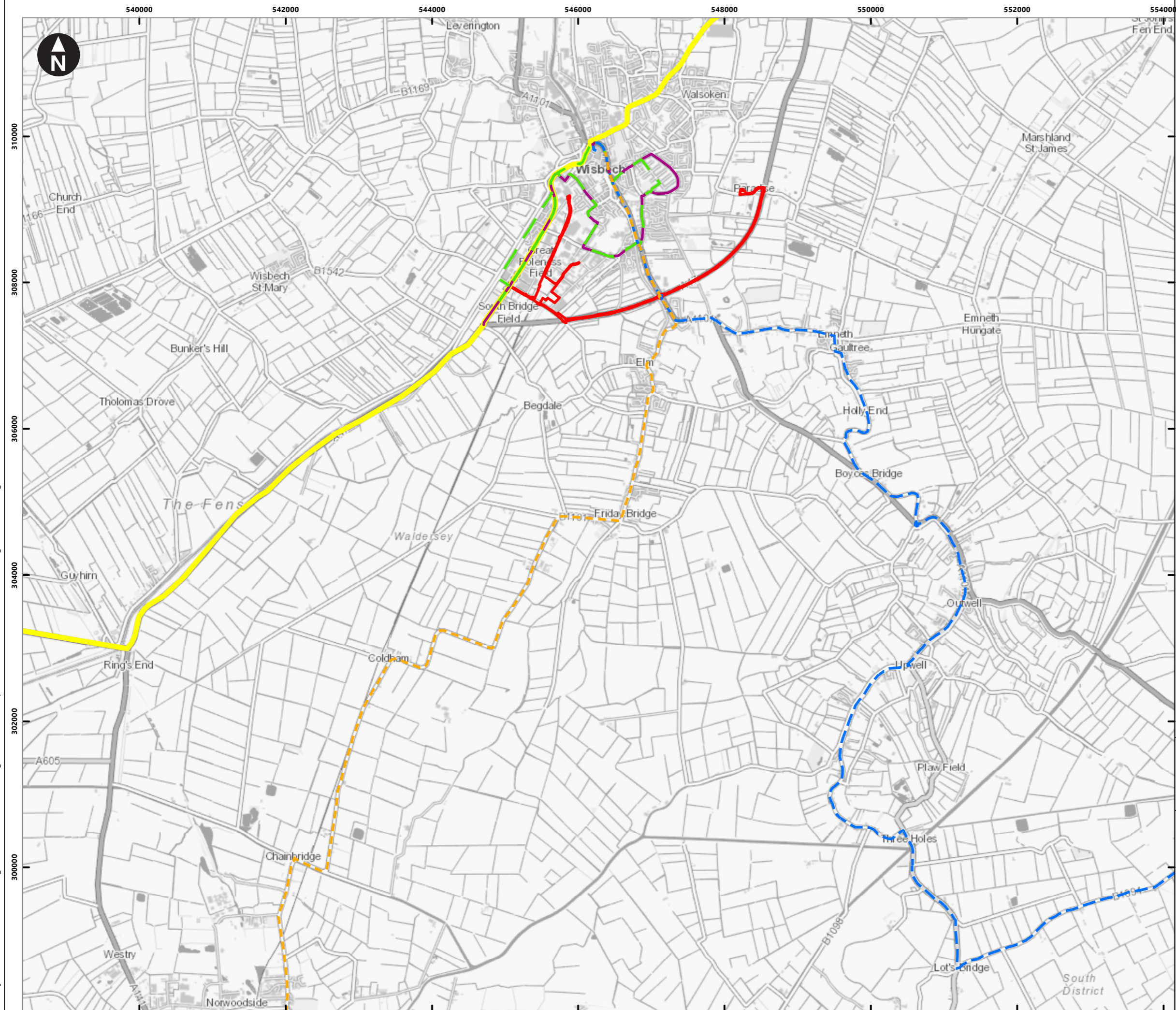


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Figure 6.4
Traffic and Transport Highway Links

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Key

- Order limits
- Route 56 (A, B, C)
- Route 60
- Route 68
- Route 68 (A, B, C)
- The Excel

0 500 1,000 1,500 2,000 2,500 3,000m
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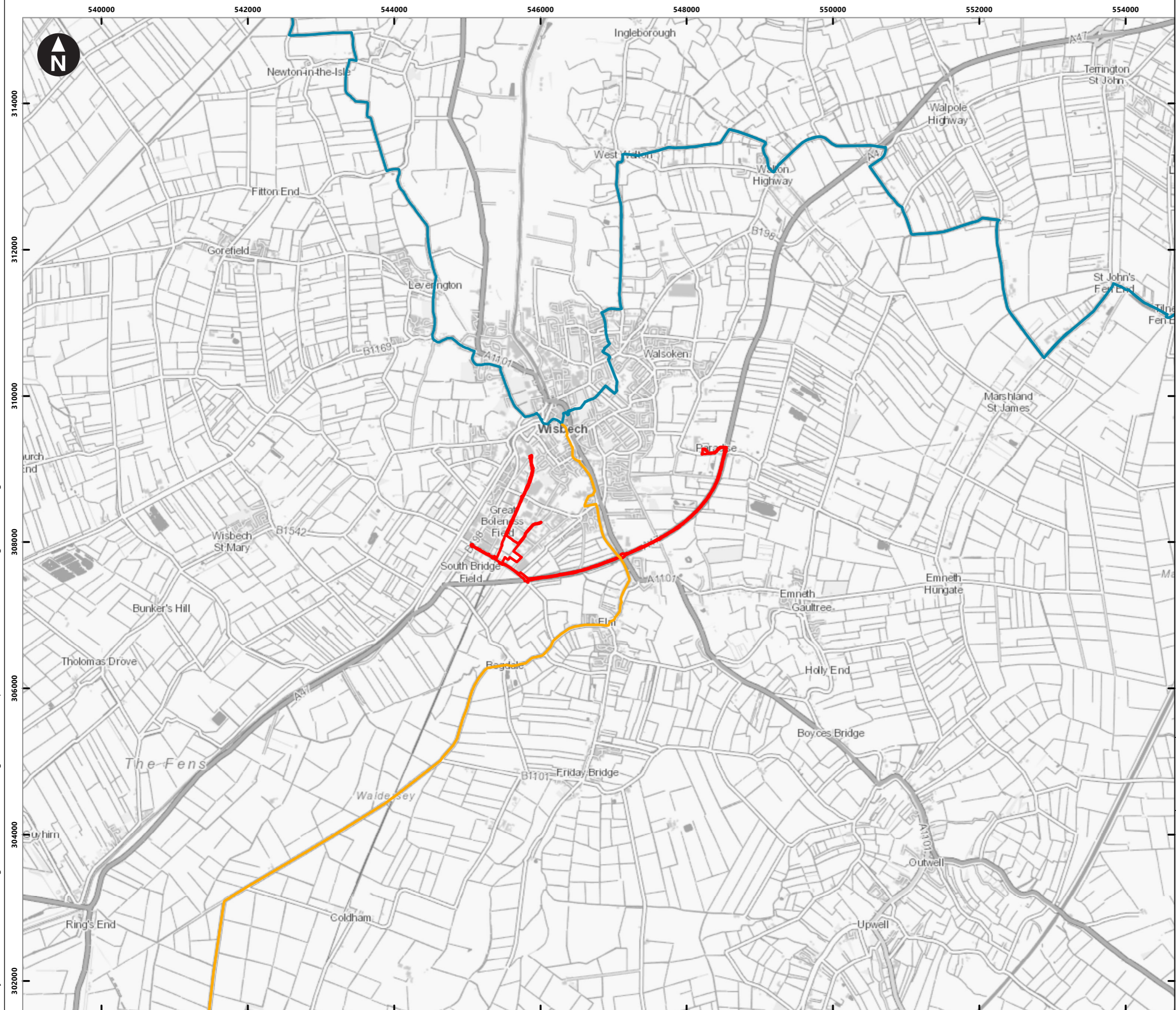


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Figure 6.5
Bus Services

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Key

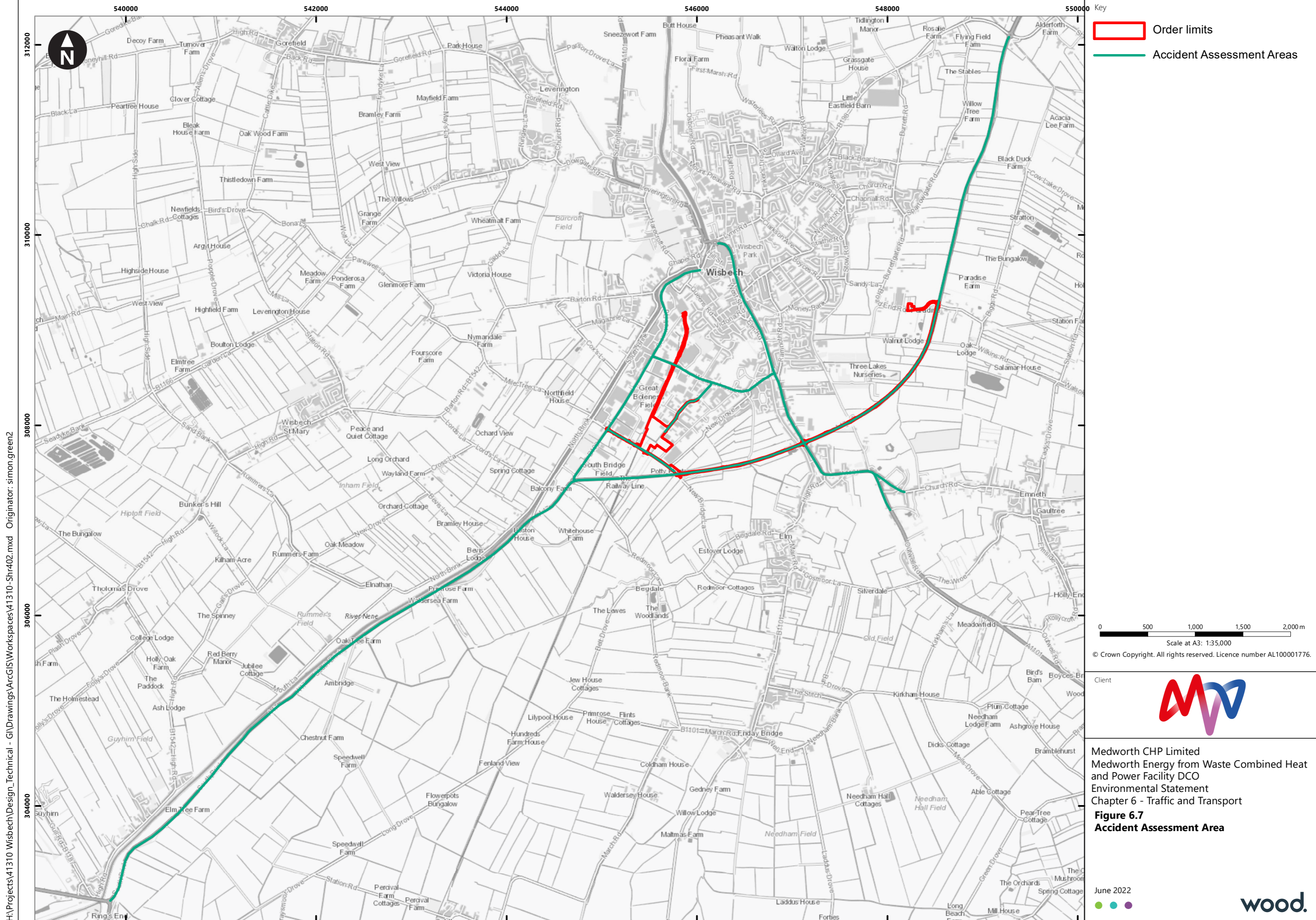
- Order limits
- National Cycle Route**
 - NCN Route 1
 - NCN Route 63

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Scale at A3: 1:50,000
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Figure 6.6
National Cycle Network



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Key
 Order limits
 Accident Assessment Areas

0 500 1,000 1,500 2,000 m
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Figure 6.7
Accident Assessment Area

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Figure 6.8
Construction programme

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Key

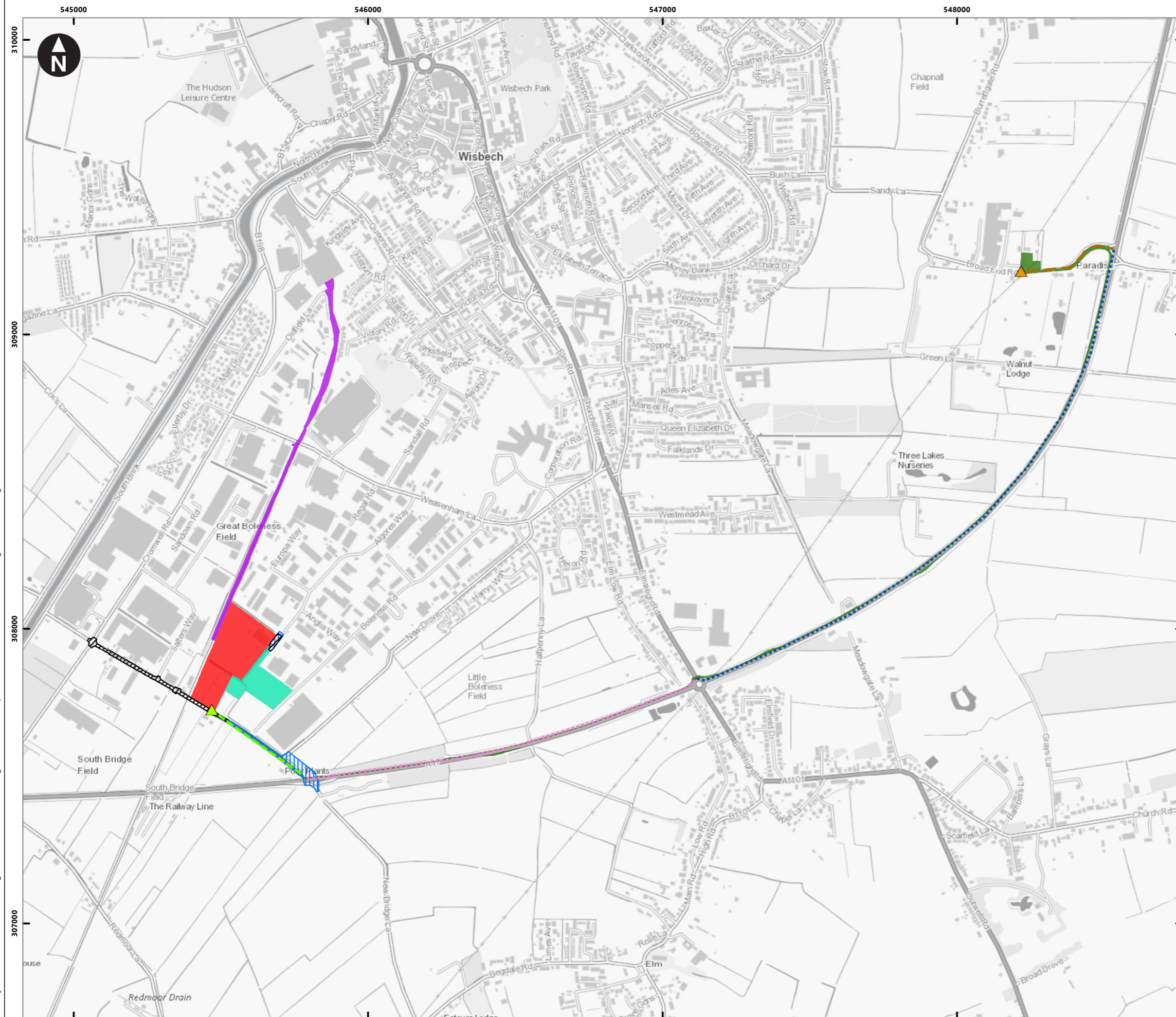
- EFW CHP Facility Site
- Staff Travel Distribution Network
- Destination points

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Figure 6.9
Construction Staff Distribution



- Key
- EfW CHP Facility Site
 - CHP Connection
 - Temporary Construction Compound
 - Grid Connection
 - Access Improvements
 - Water Connections
 - A47 Section 1
 - A47 Section 2
 - Broadend Road
 - New Bridge Lane Cable Section
 - New Bridge Lane Access
 - Walsoken Substation Access

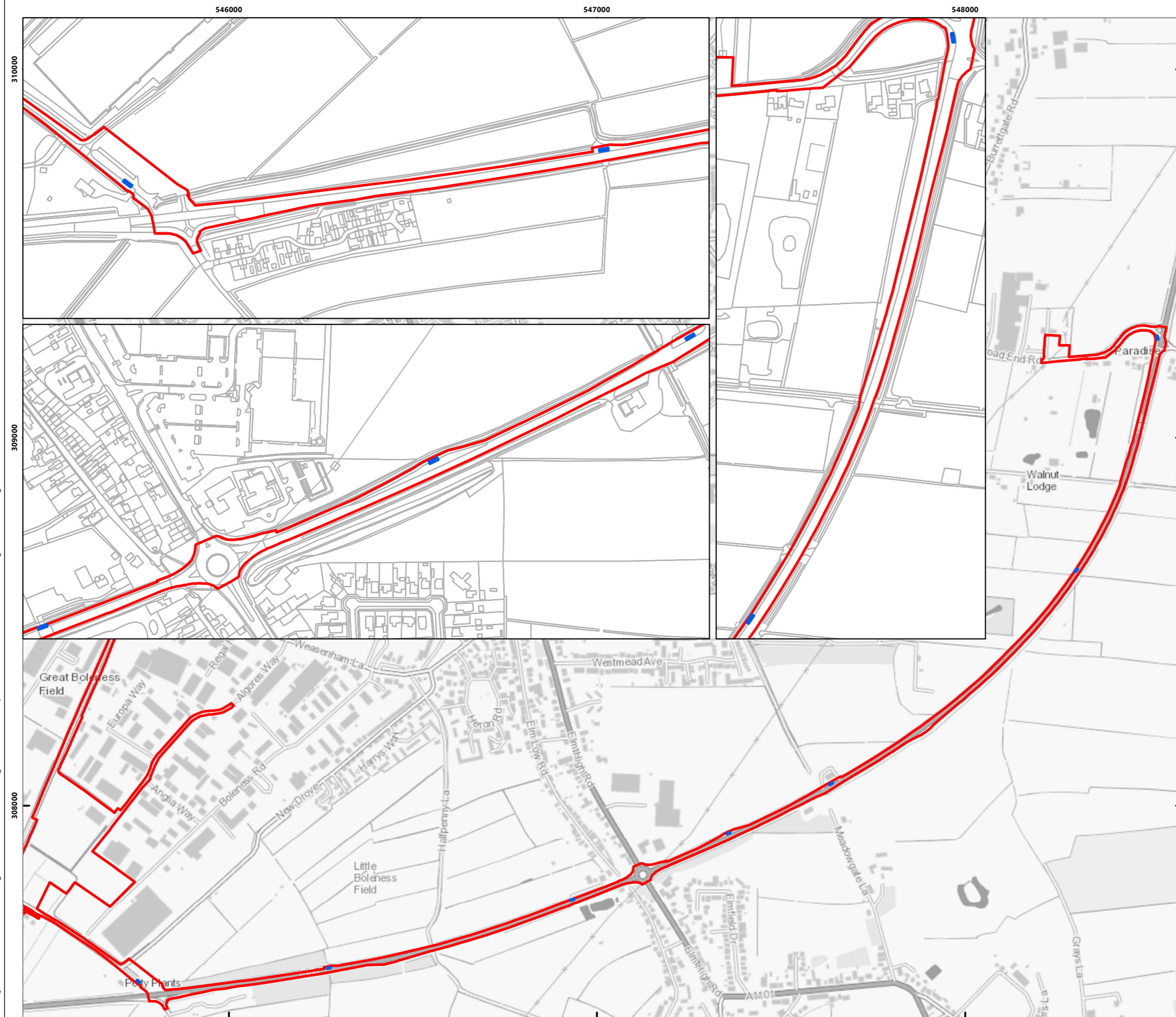
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Figure 6.10
Grid Connection Construction Accesses

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Key

- Order limits
- Joint Bay

0 100 200 300 400 500 600 m

Scale at A3: 1:10,000

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Figure 6.11
Joint Bay Locations

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WEEKS	Concrete			Pipes			Conden Pipes			Access Track			Fencing			Prefab Bridge			Cable			Crane Pad			Total
	Section	Section 1	Bridge	Section 2	Section 1	Bridge	Section 2	Section 1	Bridge	Section 2	Section 1	Bridge	Section 2	Section 1	Bridge	Section 2	Section 1	Bridge	Section 2	Section 1	Bridge	Section 2	Section 1	Bridge	
110										8															8
111										8															8
112										8		8													16
113										8		8													16
114										8		8													16
115										8		8													16
116										8		8													16
117												8	3												10
118													3		3										5
119															3								6		9
120																						20			20
121		11																							11
122		11	8																						20
123		11		17	4											2									34
124		11		17	4	2																			34
125		11		17	4		3																		35
126		11		17	4		3	2																	37
127		11		17	4		3																		35
128		11		17	4		3																		35
129		11		17	4		3																		35
130		11		17	4		3	4		2															40
131		11		17	4		3	4		2															40
132				4			3	4		2															12
133							4			2															6
134																		4			2				6
135																									0


Client

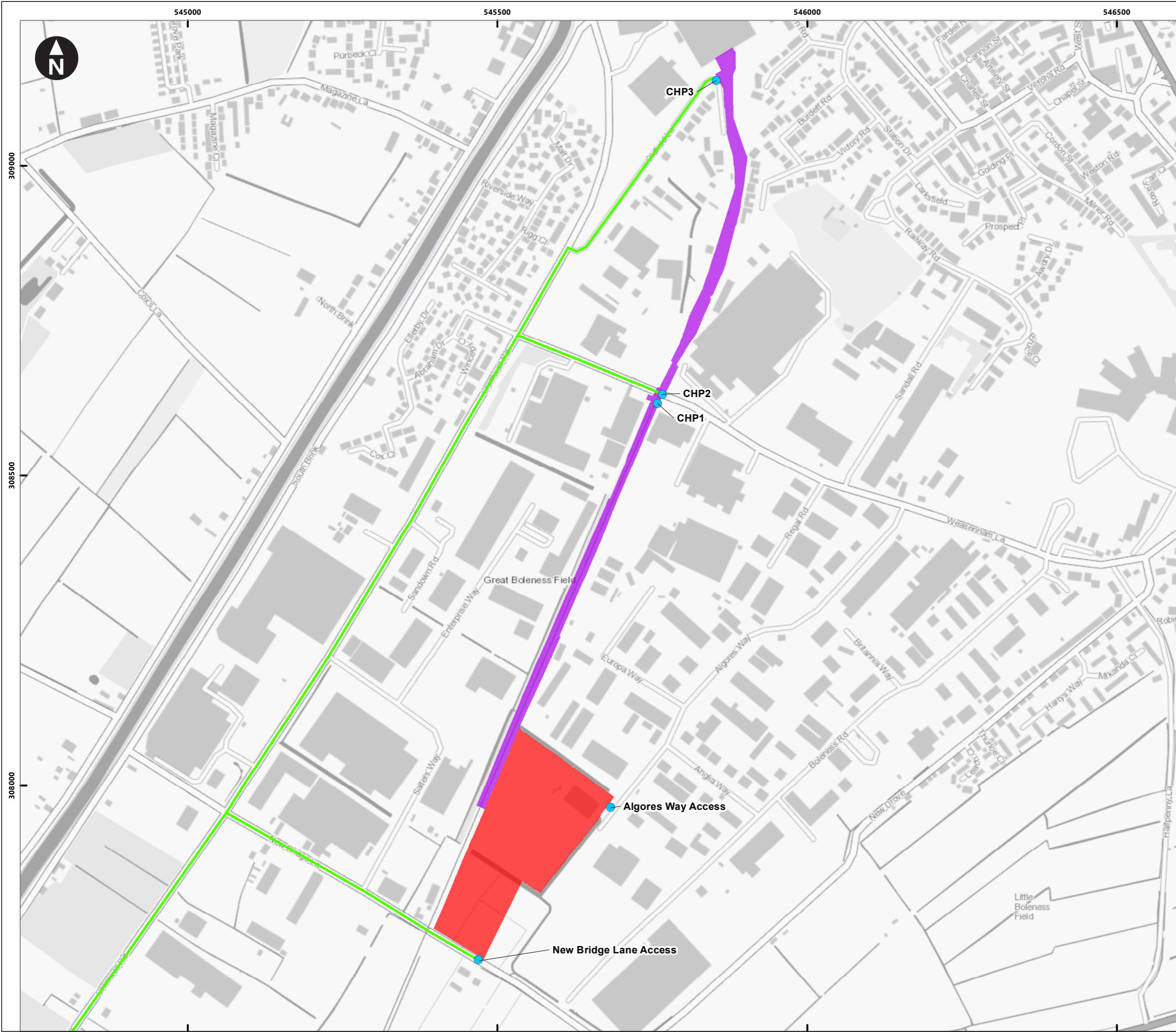


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Figure 6.12
CHP Connection Traffic Generation

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- Key
- EFW CHP Facility Site
 - CHP Connection
 - Proposed Access Routes
 - CHP Connection Construction Accesses

0 50 100 150 200 250 300 350 m
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Figure 6.13
CHP Connection Construction Accesses

Peak Month Calculation	2023					2024										2025										2026													
Construction Programme Summary (Traffic per MONTH)	Month																																						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36			
EFW CHP Facility - CONSTRUCTION																																							
HGV	478	514	644	1180	1226	2100	2150	3510	4196	4938	5017	3931	3598	4682	4033	4033	4204	3528	3775	2972	2732	2683	2516	2057	1466	1104	915	917	845	688	728	642	260	260	135	0			
LGV	500	1196	1820	4264	4752	6750	8112	7973	9180	9967	11808	11808	11967	12312	11167	11613	12672	9828	10140	11154	13365	12050	12177	12402	11180	10368	11000	10332	8460	5536	5980	4888	3588	2184	2268	1924			
TOTAL	978	1710	2464	5444	5978	8850	10262	11483	13376	14904	16825	15739	15564	16994	15199	15646	16876	13356	13915	14126	16097	14733	14693	14459	12646	11472	11915	11249	9305	6224	6708	5530	3848	2444	2403	1924			
CHP pipeline construction																																							
HGV																									44	48	58	65	139	144	64	40							
LGV																									100	120	120	150	120	120	150	40							
TOTAL																									144	168	178	215	259	264	214	80							
Grid connection construction																																							
HGV															10	184	319	350	437	154	10	0																	
LGV															280	240	350	480	540	640	340	160																	
TOTAL															290	424	669	830	977	794	350	160																	
Access New Bridge Lane Construction																																							
HGV		50	33	92	30	24	0																																
LGV		100	80	80	100	56	0																																
TOTAL		150	113	172	130	80	0																																
Cut/Fil/Demo																																							
HGV	760	718	587	667	958	346	346	346	346	346	346	346	346	346	290	290	290	290	290	290	290	290	290	290	290	290	290	0	0	0	0	0	0	0	0	387	387	387	
LGV	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	760	728	587	667	958	346	346	346	346	346	346	346	346	346	290	290	290	290	290	290	290	290	290	290	290	290	290	0	0	0	0	0	0	0	0	387	387	387	
TOTAL PEAK																																							
HGV	1238	1282	1263	1939	2214	2470	2496	3856	4542	5284	5363	4277	3944	5028	4323	4323	4494	3818	4065	3262	3023	2973	2807	2347	1801	1443	973	981	984	832	792	682	260	647	522	387			
LV	500	1306	1900	4344	4852	6806	8112	7973	9180	9967	11808	11808	11967	12312	11167	11613	12672	9828	10140	11154	13365	12050	12177	12402	11280	10488	11120	10482	8580	5656	6130	4928	3588	2184	2268	1924			
Total	1738	2588	3163	6283	7066	9276	10608	11830	13722	15250	17171	16085	15910	17340	15489	15936	17166	13646	14205	14416	16388	15023	14984	14749	13081	11931	12093	11463	9564	6488	6922	5610	3848	2831	2790	2311			


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Figure 6.14
Construction period peak month identification

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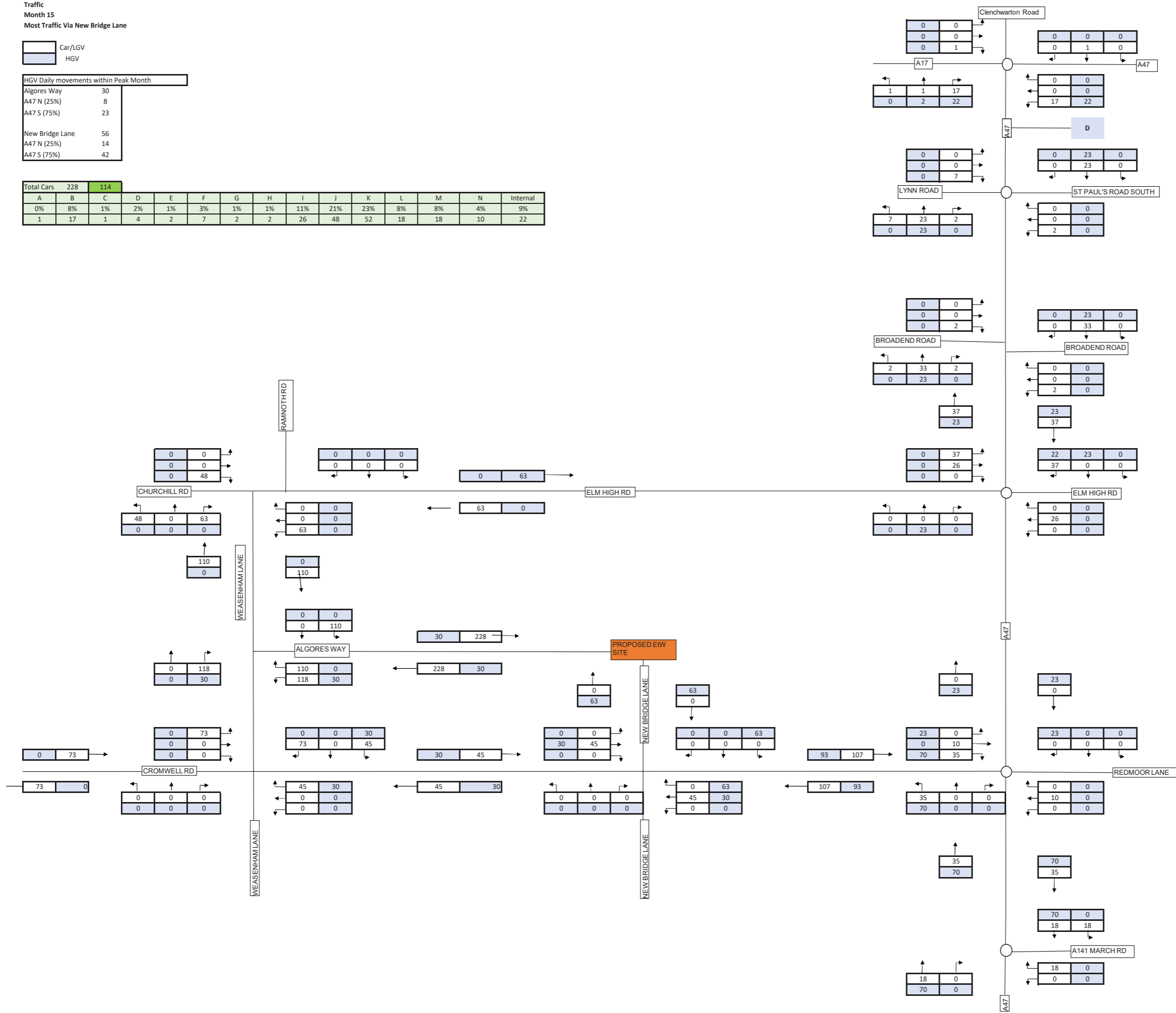


SHEET - Scenario 1
 Traffic
 Month 15
 Most Traffic Via New Bridge Lane

Car/LGV
 HGVS

HGV Daily movements within Peak Month	
Algores Way	30
A47 N (25%)	8
A47 S (75%)	23
New Bridge Lane	56
A47 N (25%)	14
A47 S (75%)	42

Total Cars	228	114																			
A	B	C	D	E	F	G	H	I	J	K	L	M	N	Internal							
0%	8%	1%	2%	1%	3%	1%	1%	11%	21%	23%	8%	8%	4%	9%							
1	17	1	4	2	7	2	2	26	48	52	18	18	10	22							




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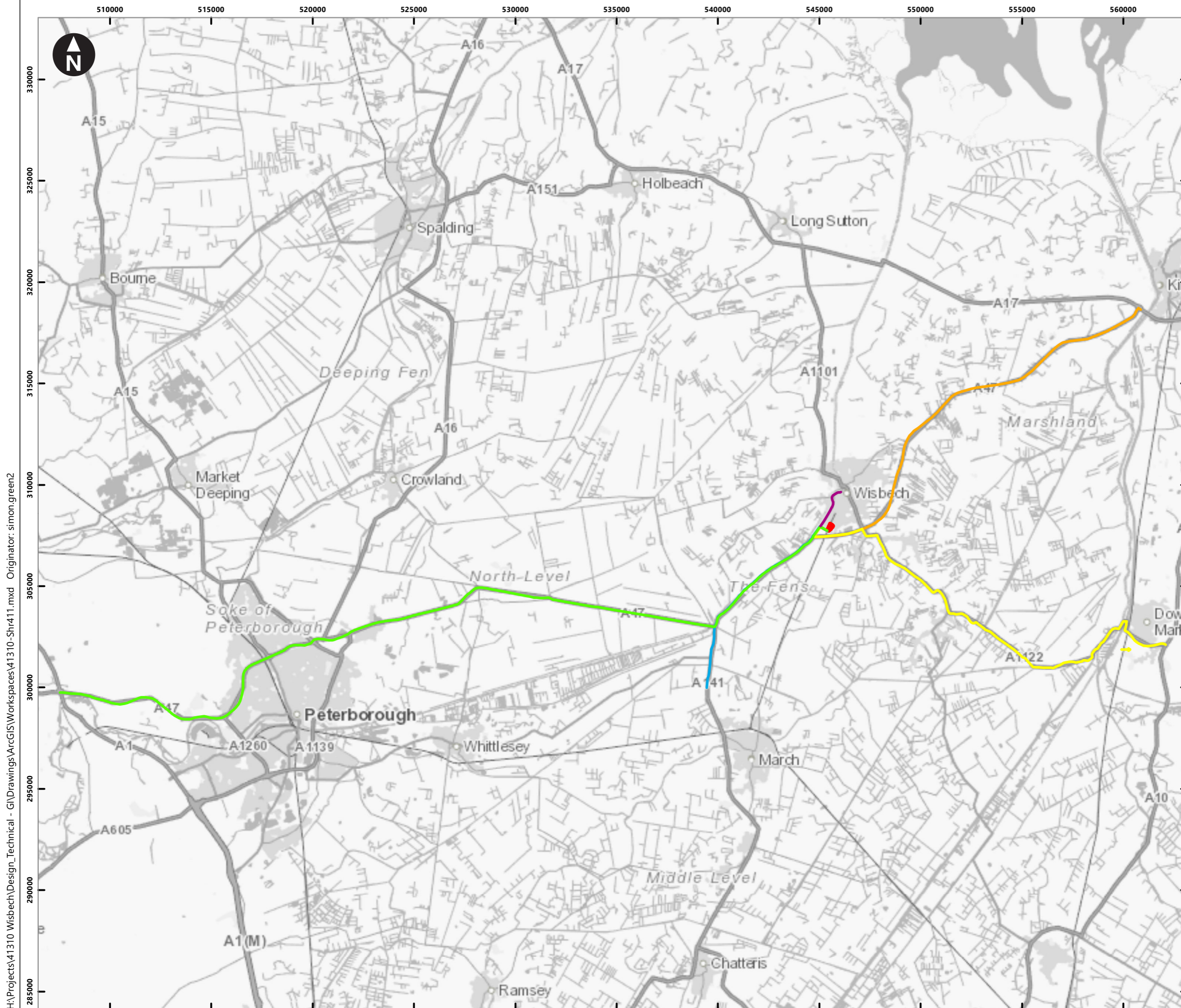
Figure 6.15
24 hour construction traffic network plots

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Originator: JACQUI PARKIN

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- Key
- EFW CHP Facility Site
 - Route 1 – from either access to – B198 Cromwell Road (South), A47 (West), A1 (M)
 - Route 2 – from either access to – B198 Cromwell Road (South), A47 (South) A141 (South)
 - Route 3 – from either access to – B198 Cromwell Road (South), A47 (East) A1101 (East), A1122, A10
 - Route 4 – from either access to – B198 Cromwell Road (South), A47 (East)
 - Route 5 - Local Routes - local roads in and around Wisbech used by RCVs

0 2,000 4,000 6,000 8,000 10,000 m
 Scale at A3: 1:180,000
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Figure 6.16
Operational HGV Access Strategy

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- Key
- EFW CHP Facility Site
 - Staff Travel Distribution Network
 - Destination point

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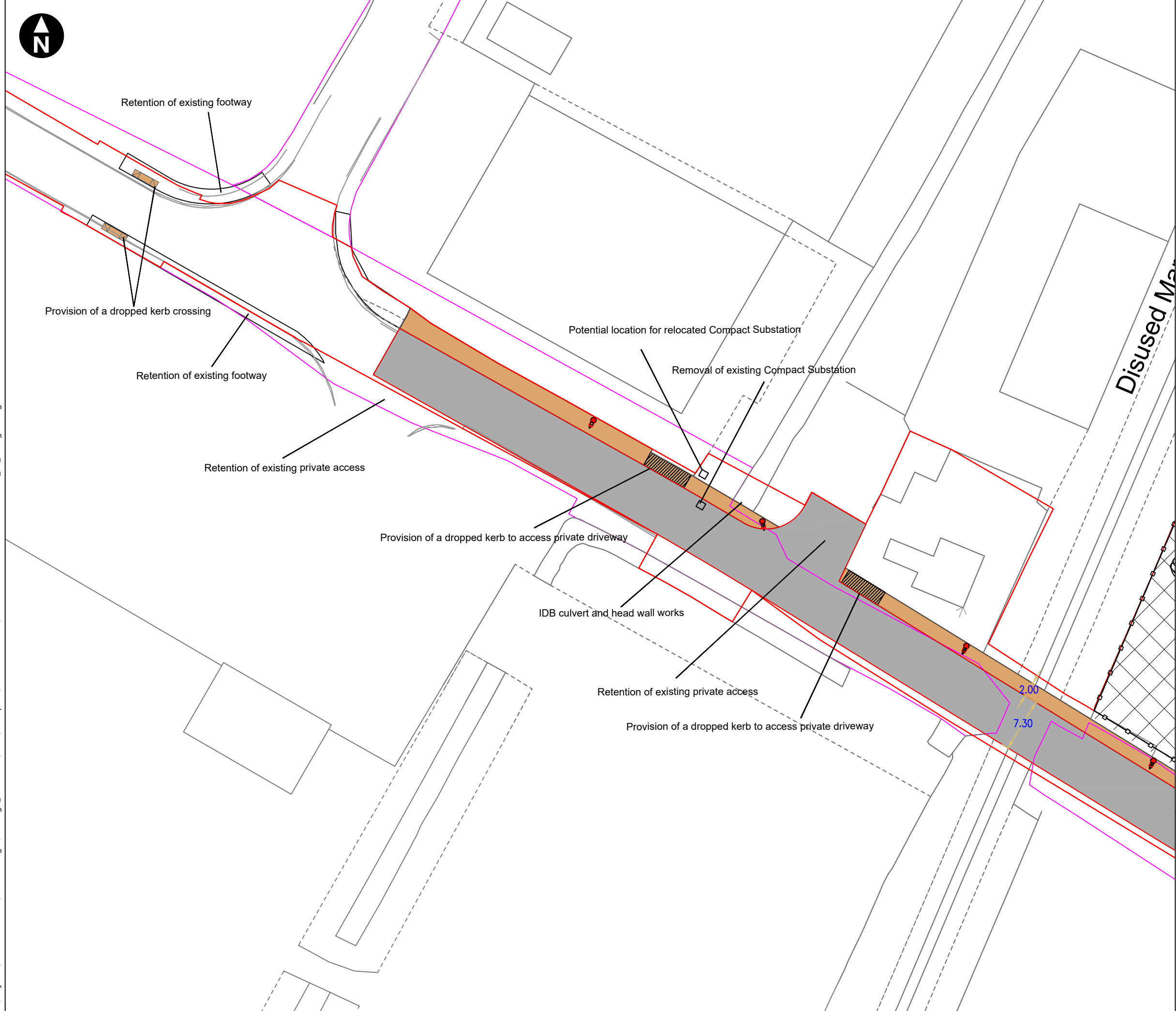
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Figure 6.17
Operational Staff Distribution

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Key

- Order limits
- Proposed access scheme
- Highways boundary
- Indicative new street lighting

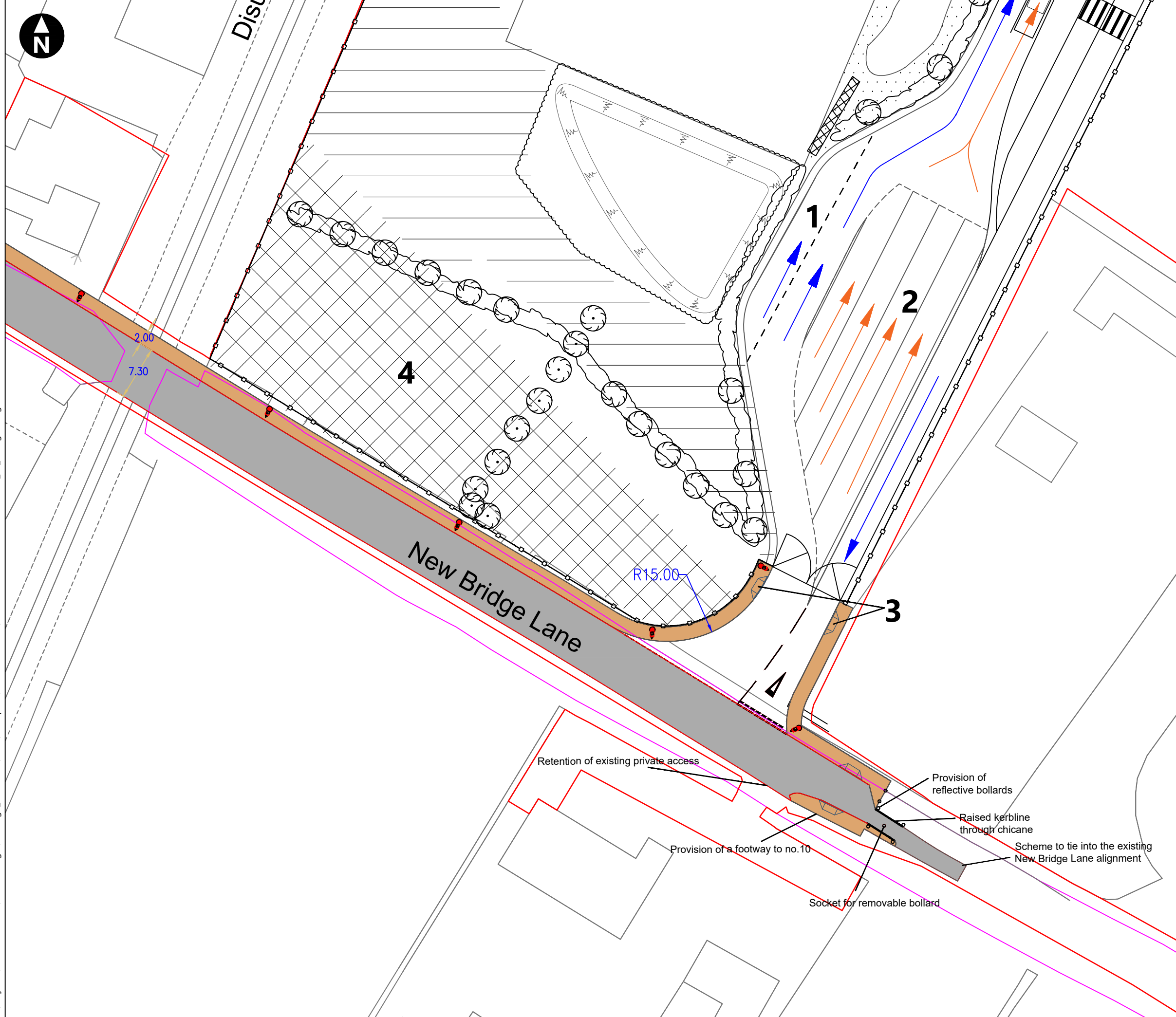
- Notes:
1. New street lighting has been provided on an indicative basis (at 30m intervals and at conflict areas) and will require detailed design and assessment.
 2. Compact substation to be relocated within Order limits.
 3. Works to IDB drain either to a) replace culvert/headwall; or b) extend existing culvert and provide new headwall. See Figure 3.18 for general arrangements.

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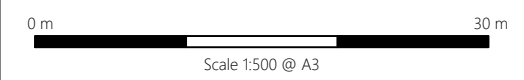
Figure 6.18i
Operational access

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- Key
- Order limits
 - Proposed access scheme
 - Highways boundary
 - Indicative new street lighting
 - Layby
 - Vehicle queuing area
 - Dropped kerb crossing
 - Rail embankment (by others) reservation area

- Notes:
1. Proposed visibility based on New Bridge Lane being subject to a revised 30mph speed limit.
 2. Visibility requirements 2.4m x 70m, desirable minimum.
 3. New street lighting has been provided on an indicative basis (at 30m intervals and at conflict areas) and will require detailed design and assessment.
 4. Access for No.10 New Bridge Lane through a chicane; subject to the agreement of the Highways Authority. Socket for removable bollard provided and if experienced, a bollard may be installed by the highways authority to prevent through traffic.



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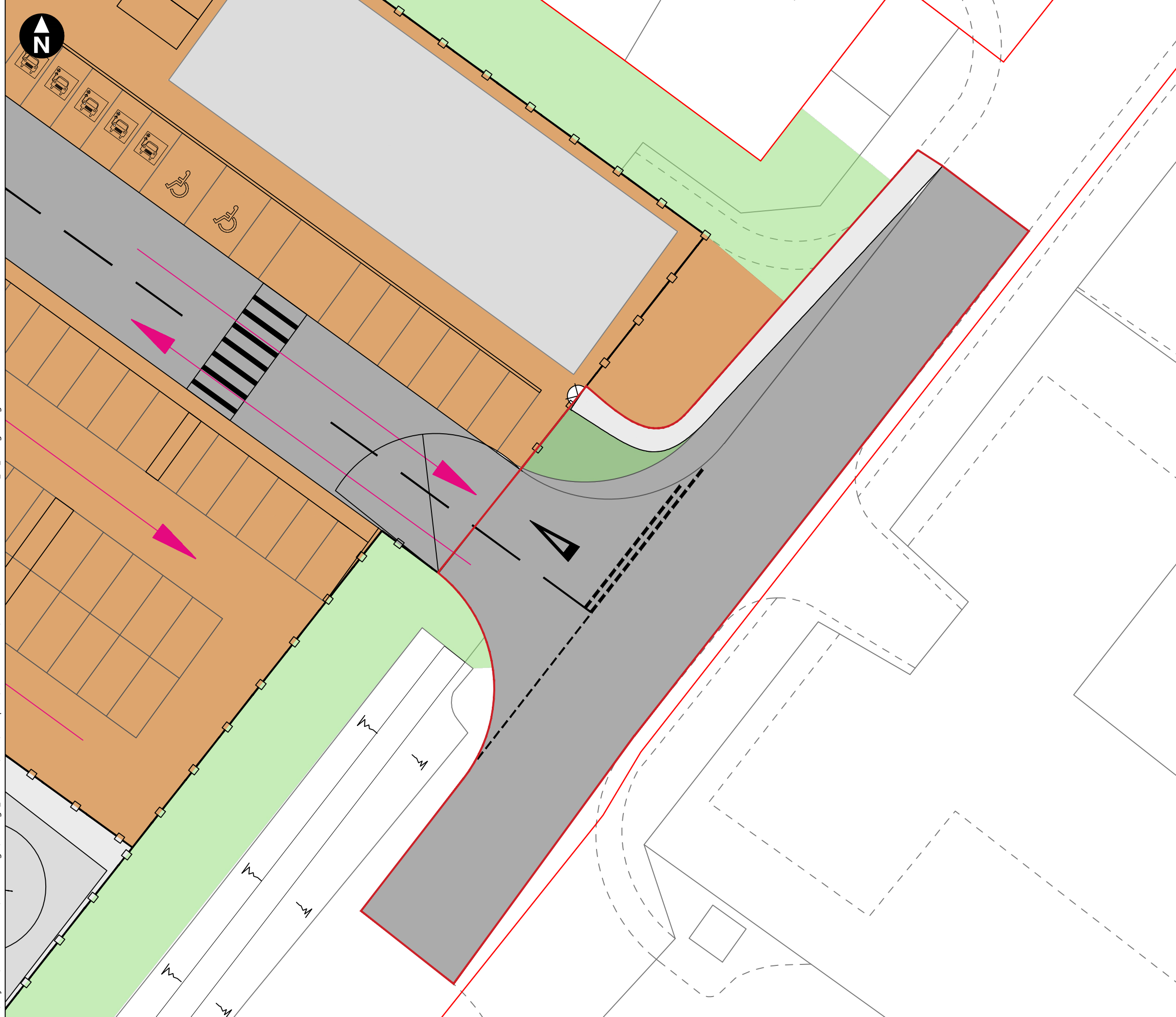
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Figure 6.18ii
Operational access

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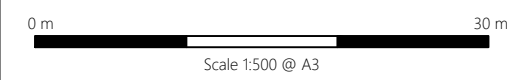


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Key

- Proposed access scheme
- Proposed road markings



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Figure 6.19
Algores Way Operational Access Design

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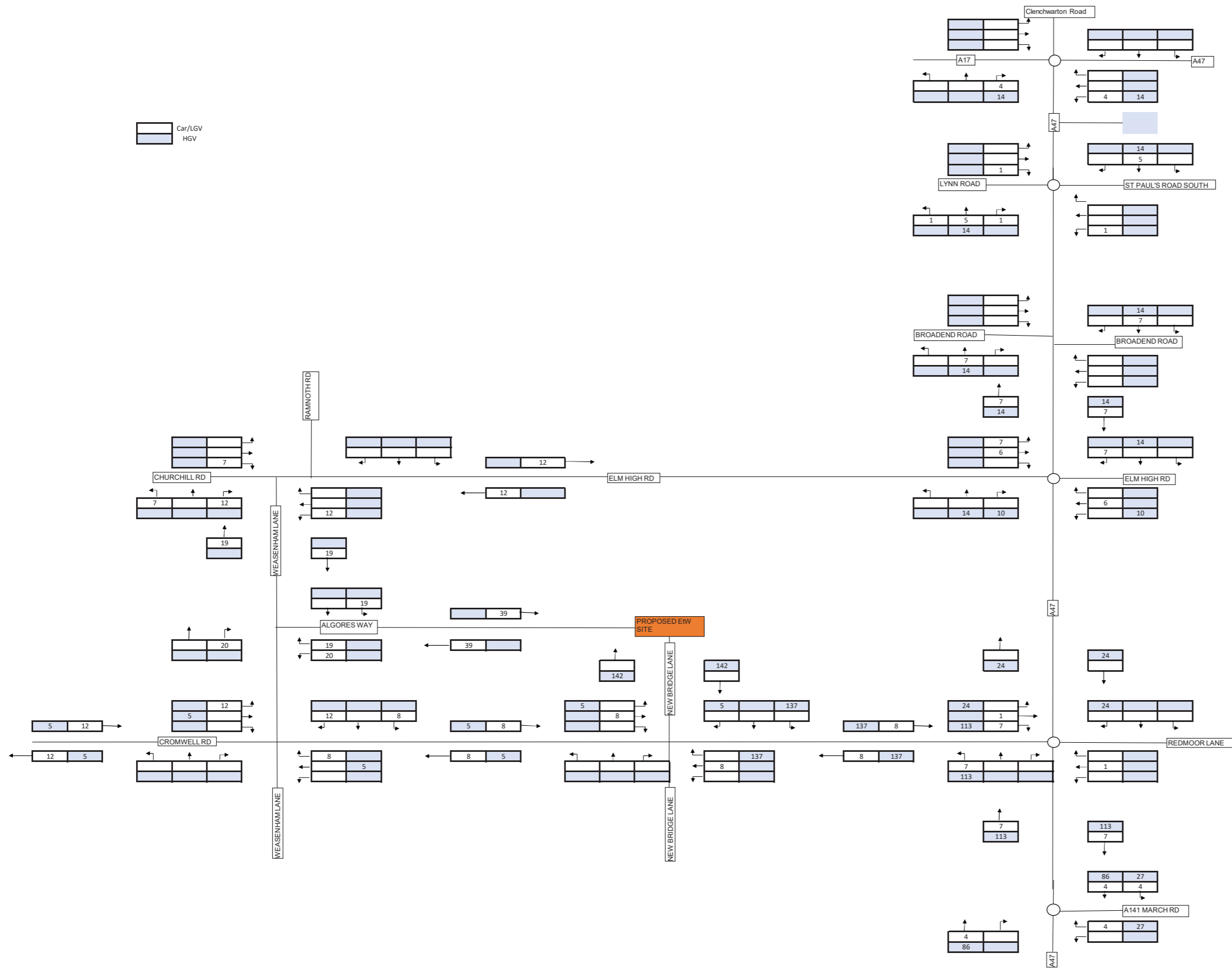


Operational Phase - Scenario 1 via Algores Way - 24 hr



 Car/LGV

 HGV



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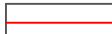
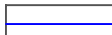
Figure 6.20
24 Hours operational traffic network plots

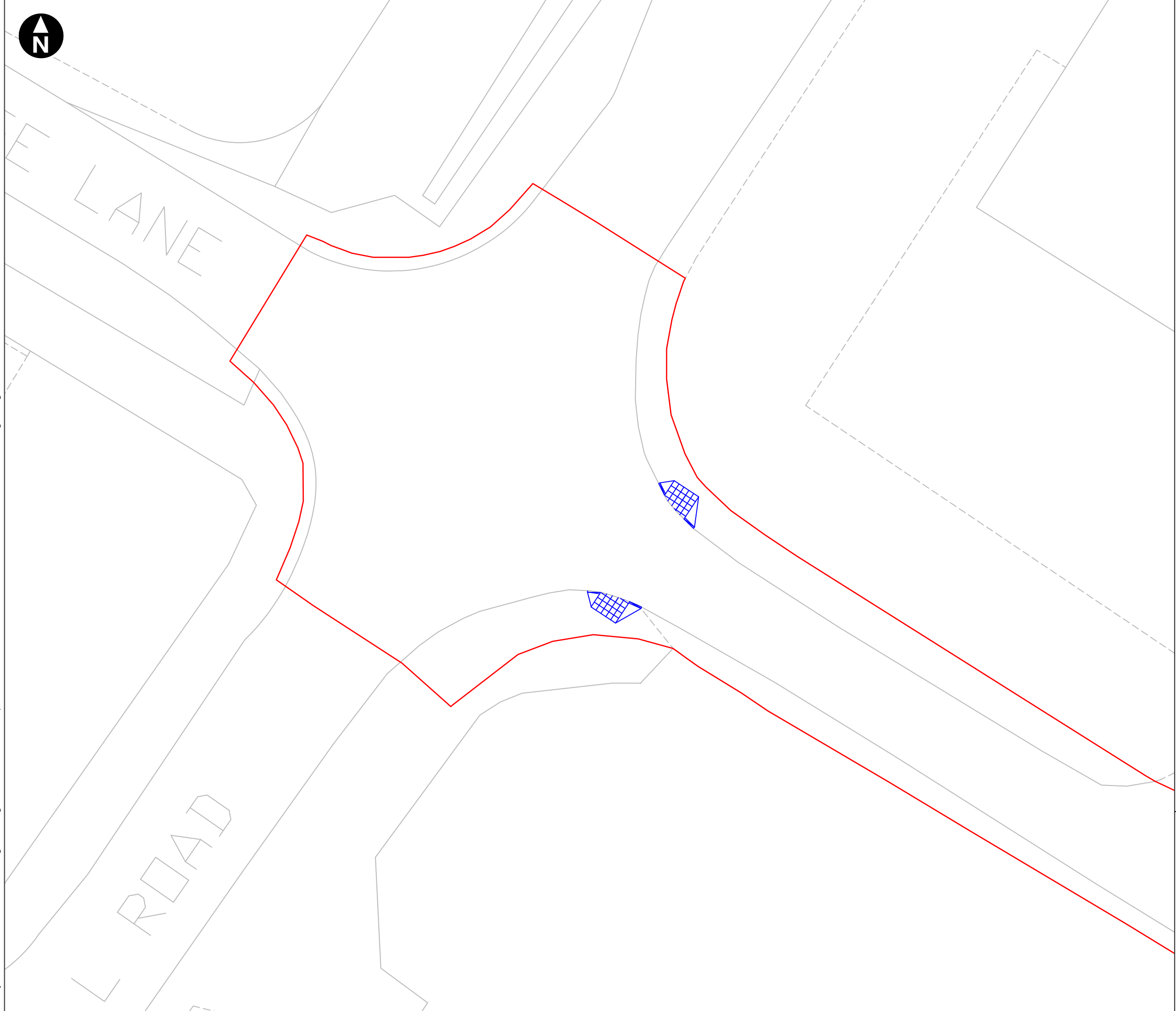
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Key

-  Order limits
-  Proposed pedestrian crossing



0 m 15 m

Scale 1:250 @ A3

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Figure 6.21
New Bridge Lane pedestrian crossing

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