

# Newry Southern Relief Road



**Co-financed by the European Union**  
Trans-European Transport Network (TEN-T)

Stage 2 Scheme Assessment Report - Appendices Part A

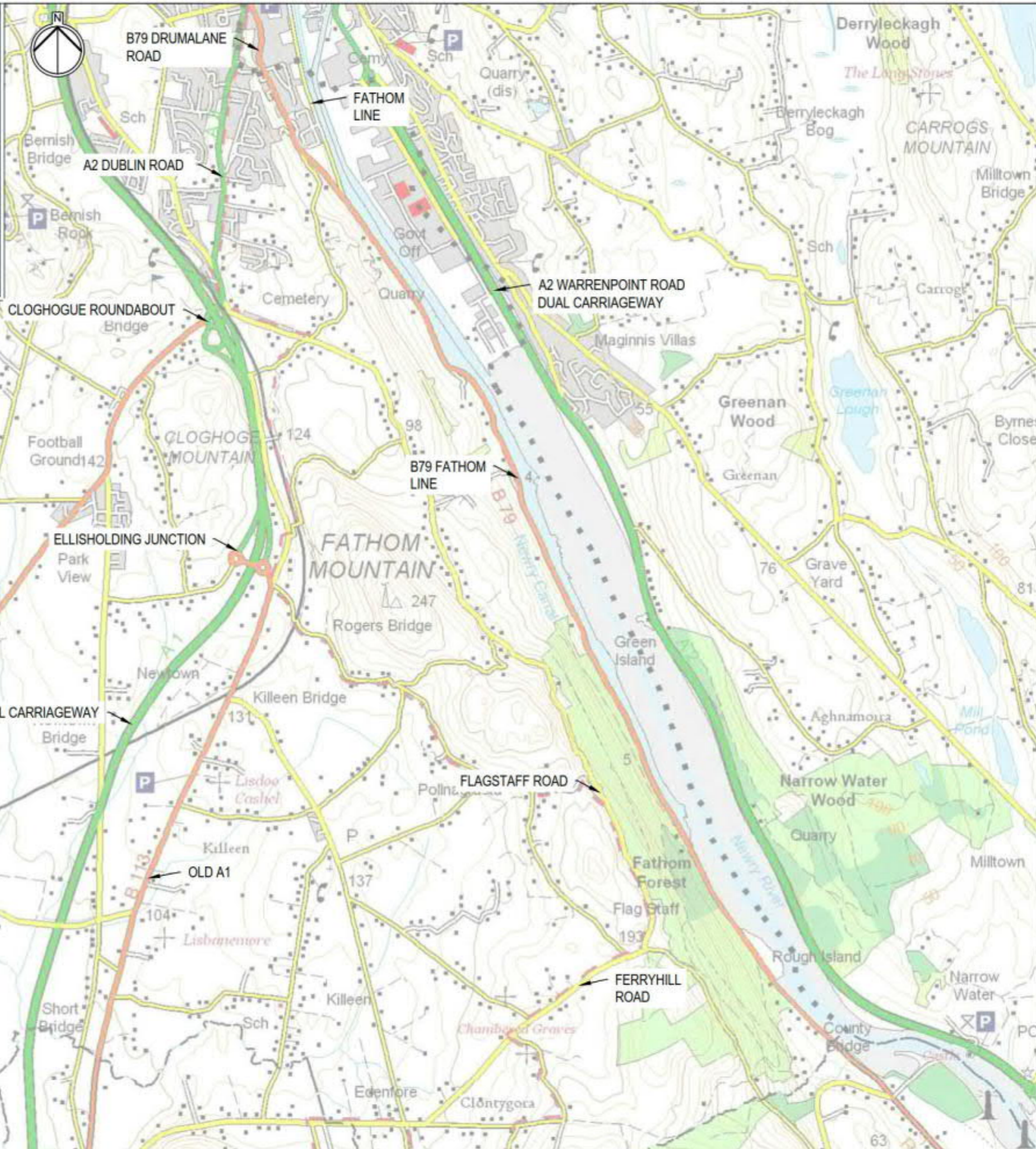
Department for Infrastructure (DfI) Roads

**FINAL**

Project number: 60472927

September 2018

## Appendix A Figures (not in the main body of text)



Project Title  
**NEWRY SOUTHERN RELIEF ROAD**

Co-financed by the European Union  
Trans-European Transport Network (TEN-T)

Client  
**Infrastructure Bonnecaire**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
INTRODUCTION  
GENERAL LOCATION PLAN**

Scale @ A3  
1:25,000

AECOM Internal Project Number  
60472927

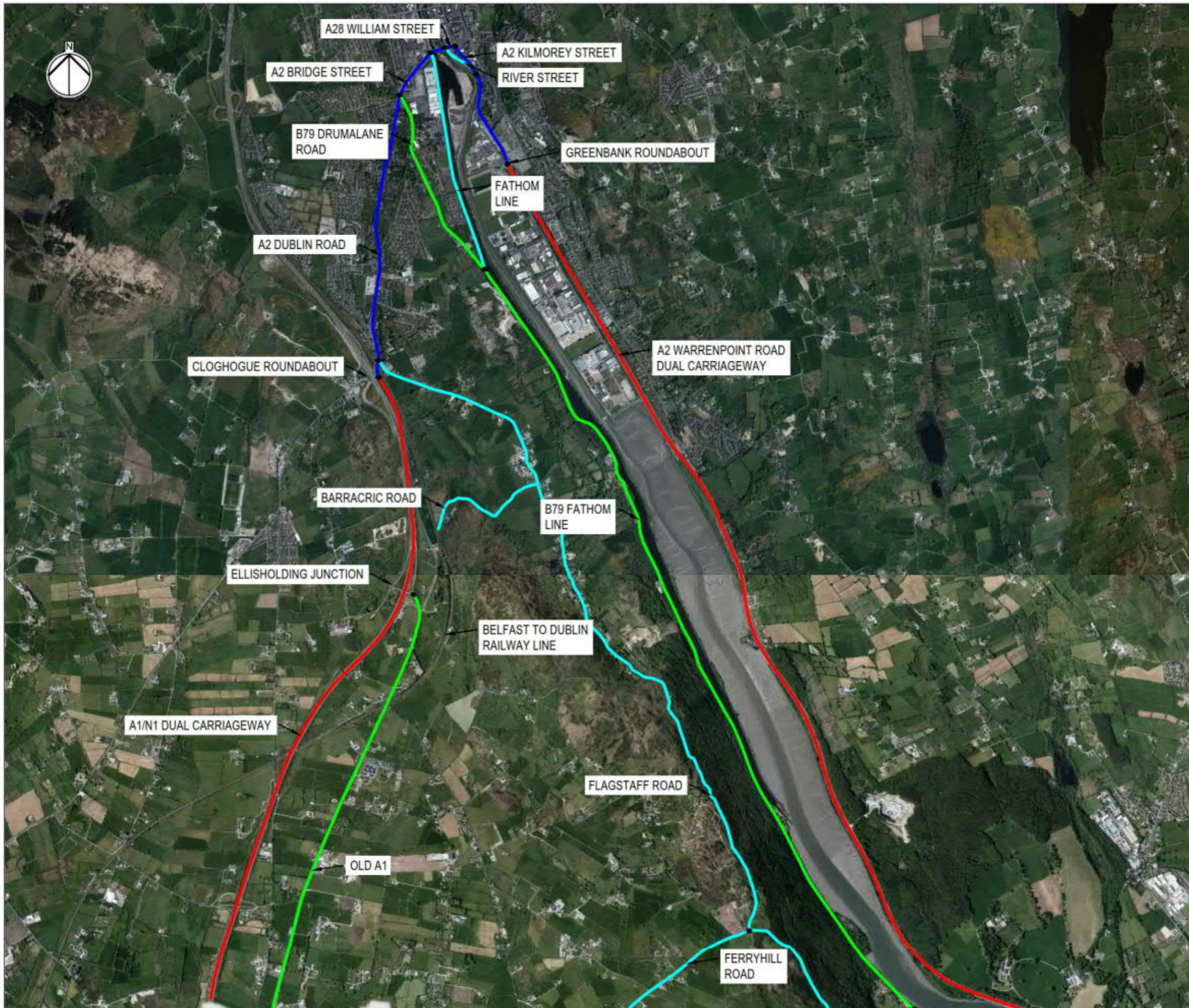
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**FIGURE 1.1.2**

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Project Title  
**NEWRY SOUTHERN RELIEF ROAD**

Co-financed by the European Union  
Trans-European Transport Network (TEN-T)

Client  
**Infrastructure Bonnacair**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
EXISTING CONDITIONS  
EXISTING ROAD NETWORK**

**KEY**

- A Road Dual Carriageway
- A Road
- B Road
- C Road or Unclassified Road
- Origin/Destination Node

Scale @ A3  
1:25,000

AECOM Internal Project Number  
60472927

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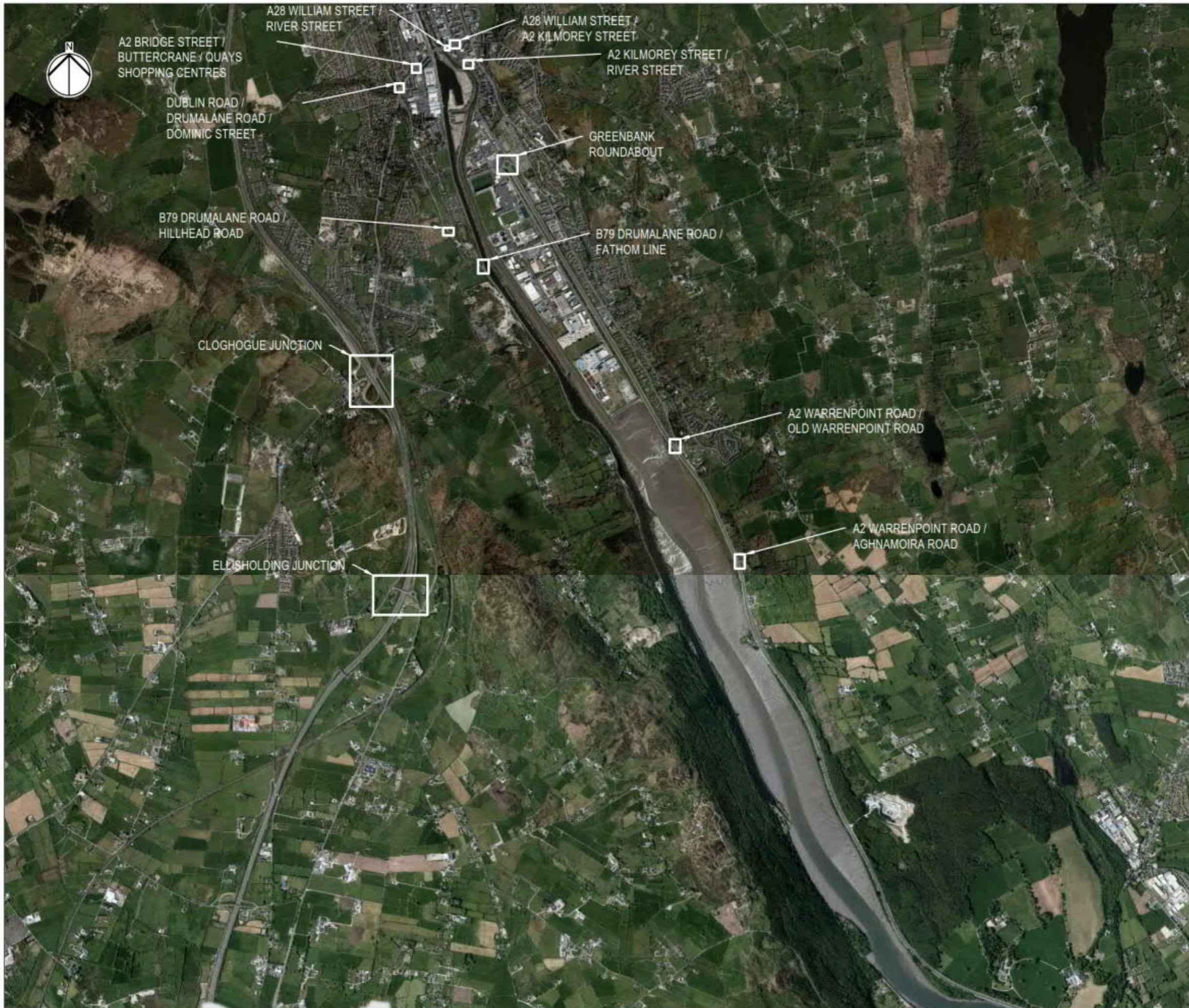
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**FIGURE 2.2.5**

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Project Title	NEWRY SOUTHERN RELIEF ROAD
 Co-financed by the European Union Trans-European Transport Network (TEN-T)	
Client	 
Drawing Title	STAGE 2 SCHEME ASSESSMENT REPORT EXISTING CONDITIONS EXISTING JUNCTION LOCATIONS
Scale @ A3	1:25,000
AECOM Internal Project Number	60472927
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<h2>FIGURE 2.2.6</h2>	
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ELLISHOLDING JUNCTION



CLOGHOGUE JUNCTION



B79 DRUMALANE ROAD / FATHOM LINE



B79 DRUMALANE ROAD / HILLHEAD ROAD



DUBLIN ROAD / DRUMALANE ROAD / DOMINIC STREET



A2 BRIDGE STREET / BUTTERCRANE / QUAYS SHOPPING CENTRES



A28 WILLIAM STREET / RIVER STREET



A28 WILLIAM STREET / A2 KILMOREY STREET



A2 KILMOREY STREET / RIVER STREET



GREENBANK ROUNDABOUT



A2 WARRENPOINT ROAD / OLD WARRENPOINT ROAD



A2 WARRENPOINT ROAD / AGHNAMEIRA ROAD

Project Title

NEWRY SOUTHERN RELIEF ROAD

Co-financed by the European Union  
Trans-European Transport Network (TEN-T)

Client  
Department for Infrastructure  
An tAire  
Bonnair

Drawing Title  
STAGE 2 SCHEME ASSESSMENT REPORT  
EXISTING CONDITIONS  
EXISTING JUNCTION DETAILS

Scale @ A3  
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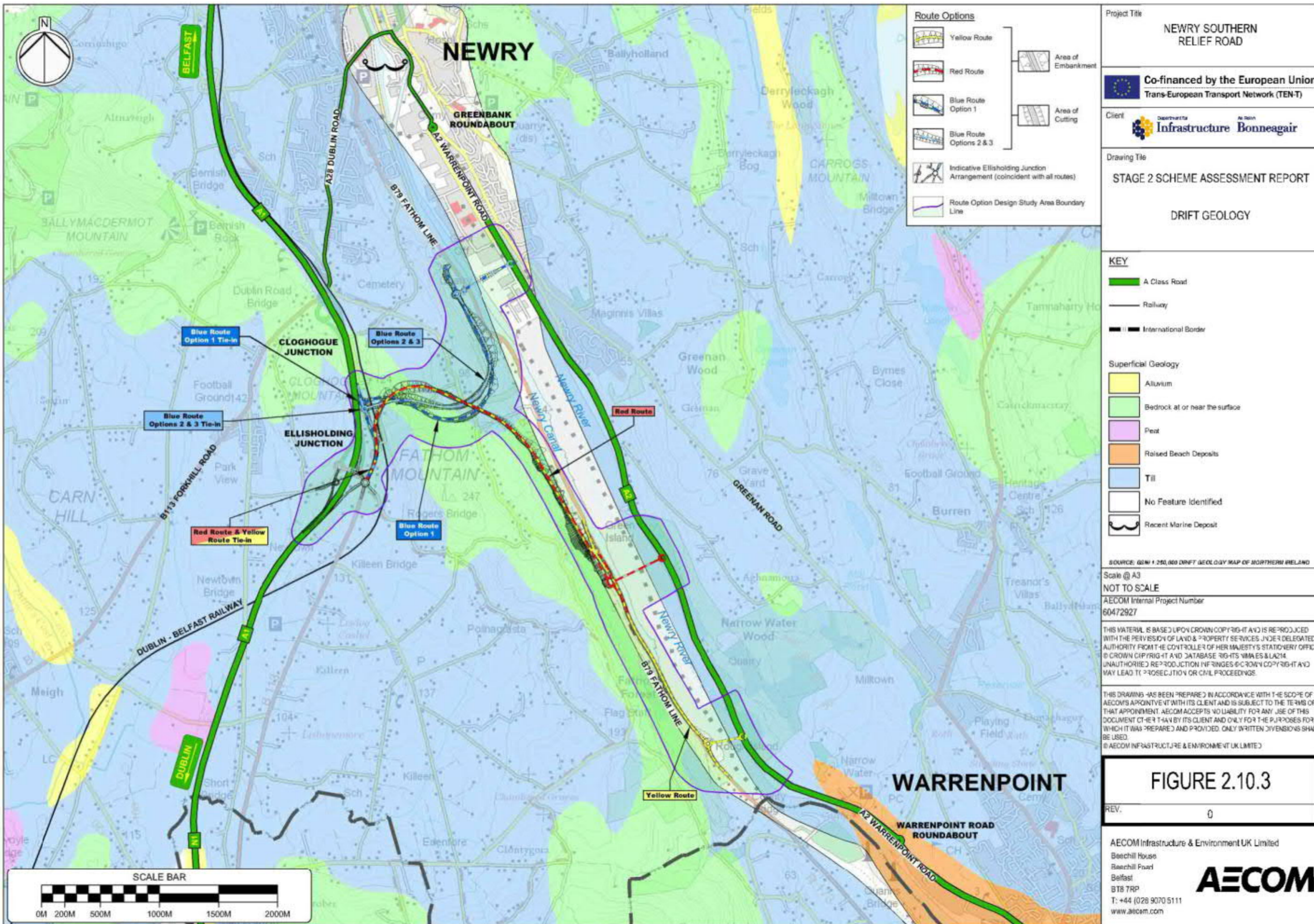
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FIGURE 2.2.7

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**Route Options**

- Yellow Route
- Red Route
- Blue Route Option 1
- Blue Route Options 2 & 3
- Indicative Ellisholding Junction Arrangement (coincident with all routes)
- Route Option Design Study Area Boundary Line

Area of Embankment  
 Area of Cutting

Project Title  
**NEWRY SOUTHERN RELIEF ROAD**

**Co-financed by the European Union**  
Trans-European Transport Network (TEN-T)

Client  
 **Infrastructure** **Bonneagair**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT**

**DRIFT GEOLOGY**

**KEY**

- A Class Road
- Railway
- International Border

**Superficial Geology**

- Alluvium
- Bedrock at or near the surface
- Peat
- Raised Beach Deposits
- Till
- No Feature Identified
- Recent Marine Deposit

SOURCE: OSN 1:250,000 DRIFT GEOLOGY MAP OF NORTHERN IRELAND

Scale @ A3  
**NOT TO SCALE**

AECOM Internal Project Number  
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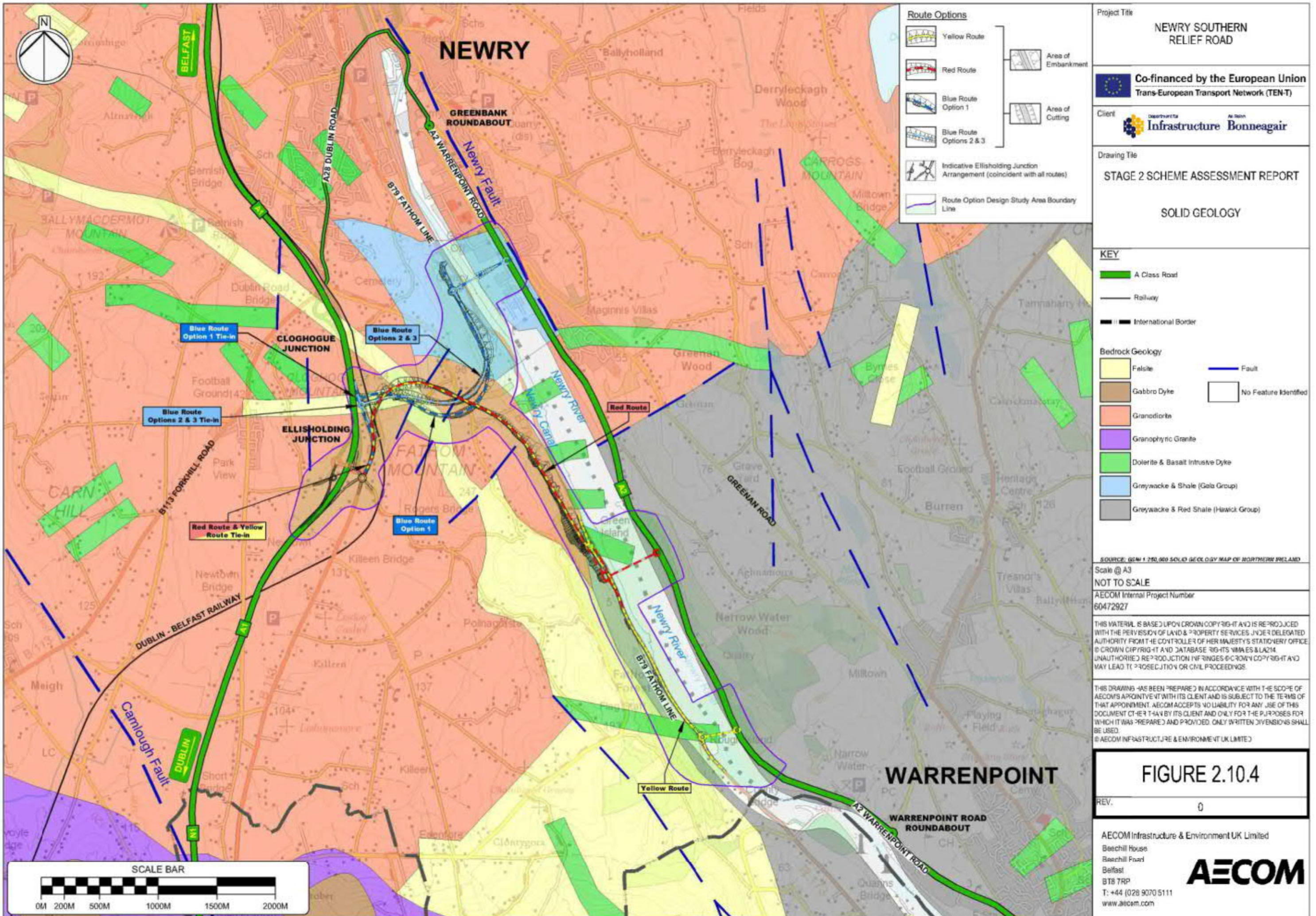
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**FIGURE 2.10.3**

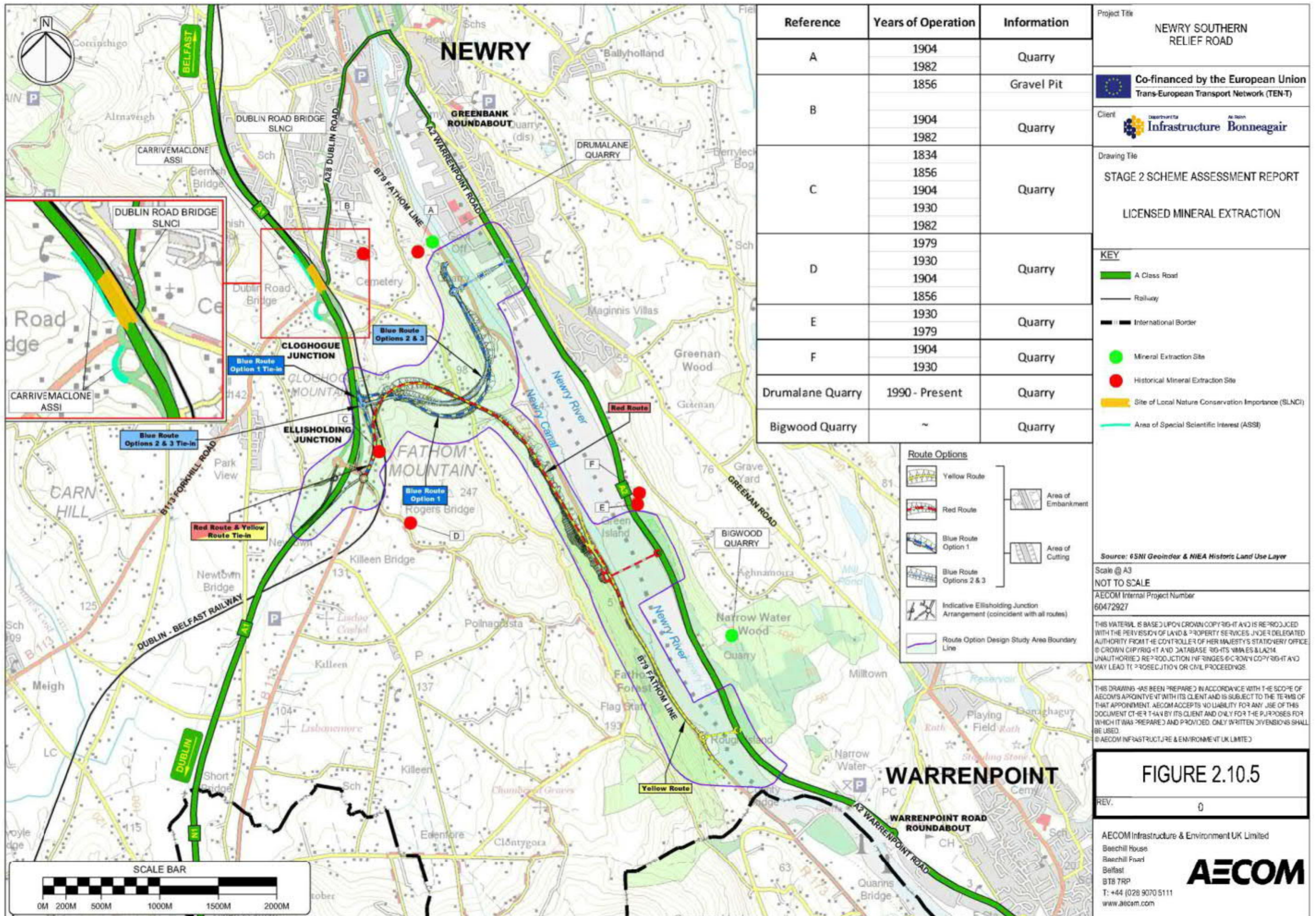
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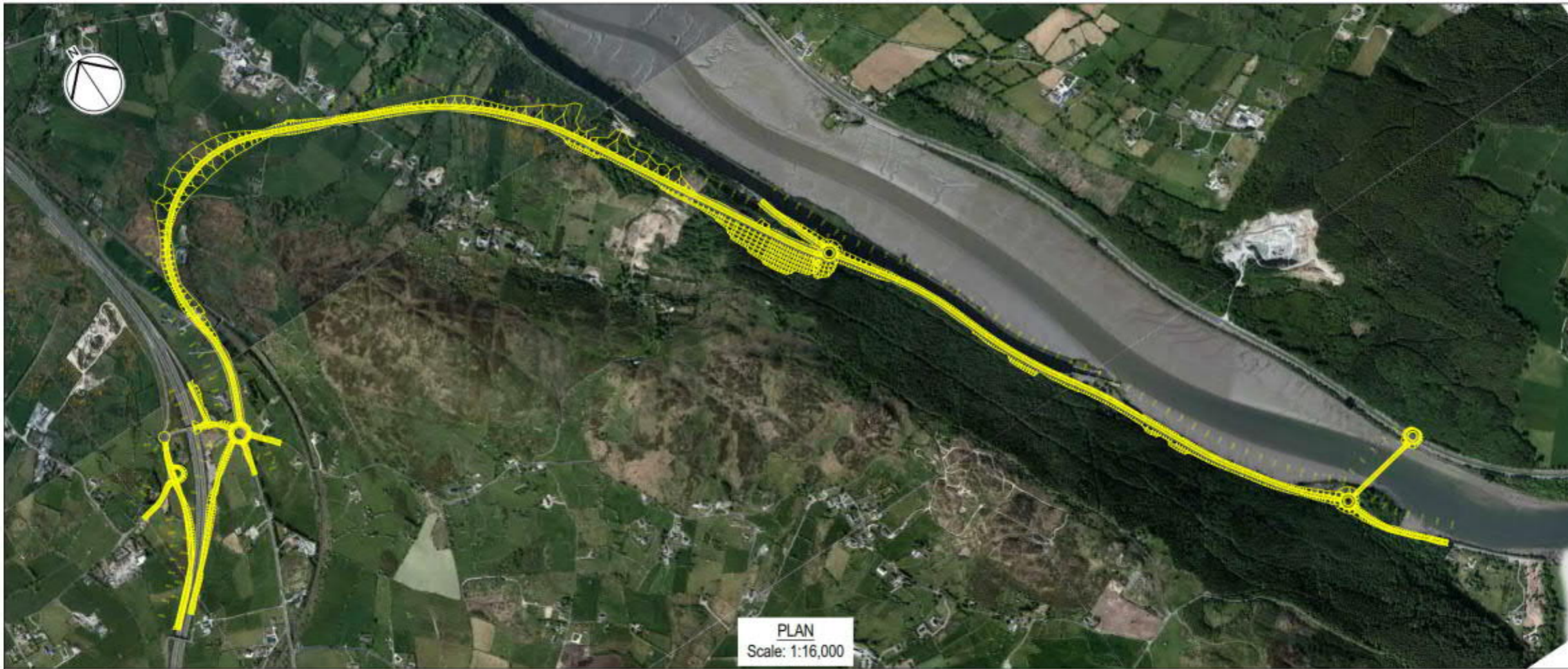
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Project Title  
**NEWRY SOUTHERN RELIEF ROAD**

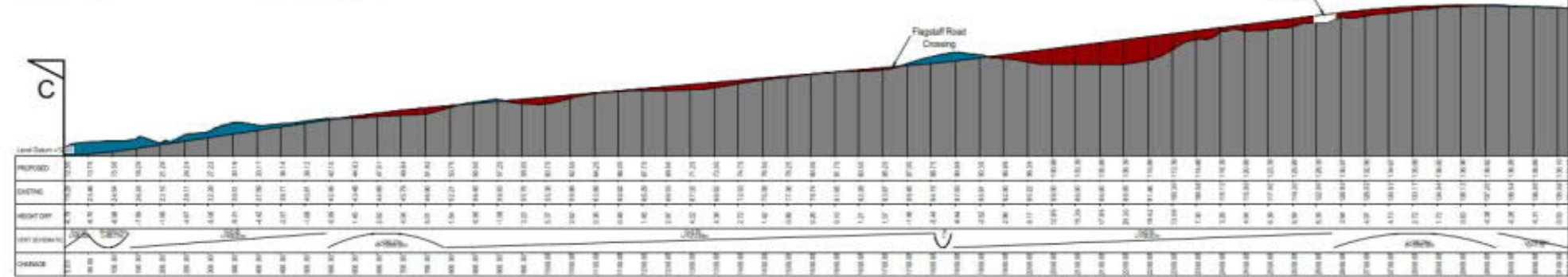
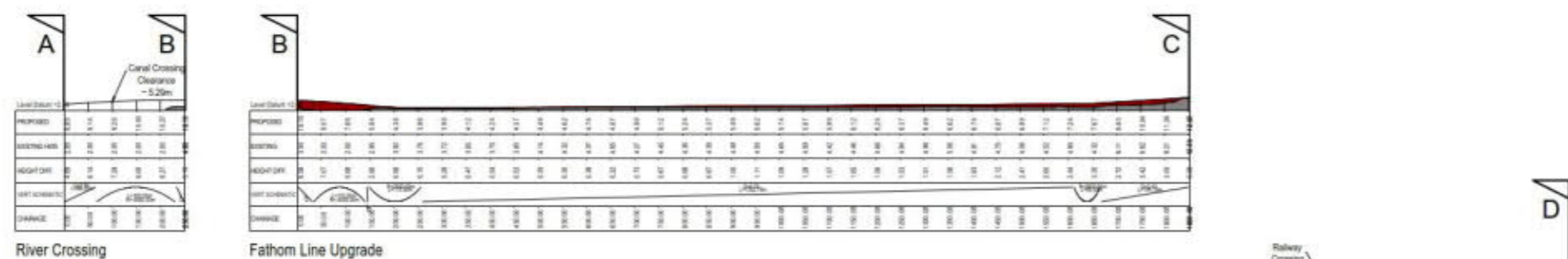
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Client  
**Infrastructure Donegal**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
 DESCRIPTION OF THE SCHEME  
 YELLOW ROUTE**

KEY

- Existing Ground
- Fill
- Excavation
- Yellow Route



**PROFILE**  
 Scale: Horz 1:12,500 Vert 1:5,000

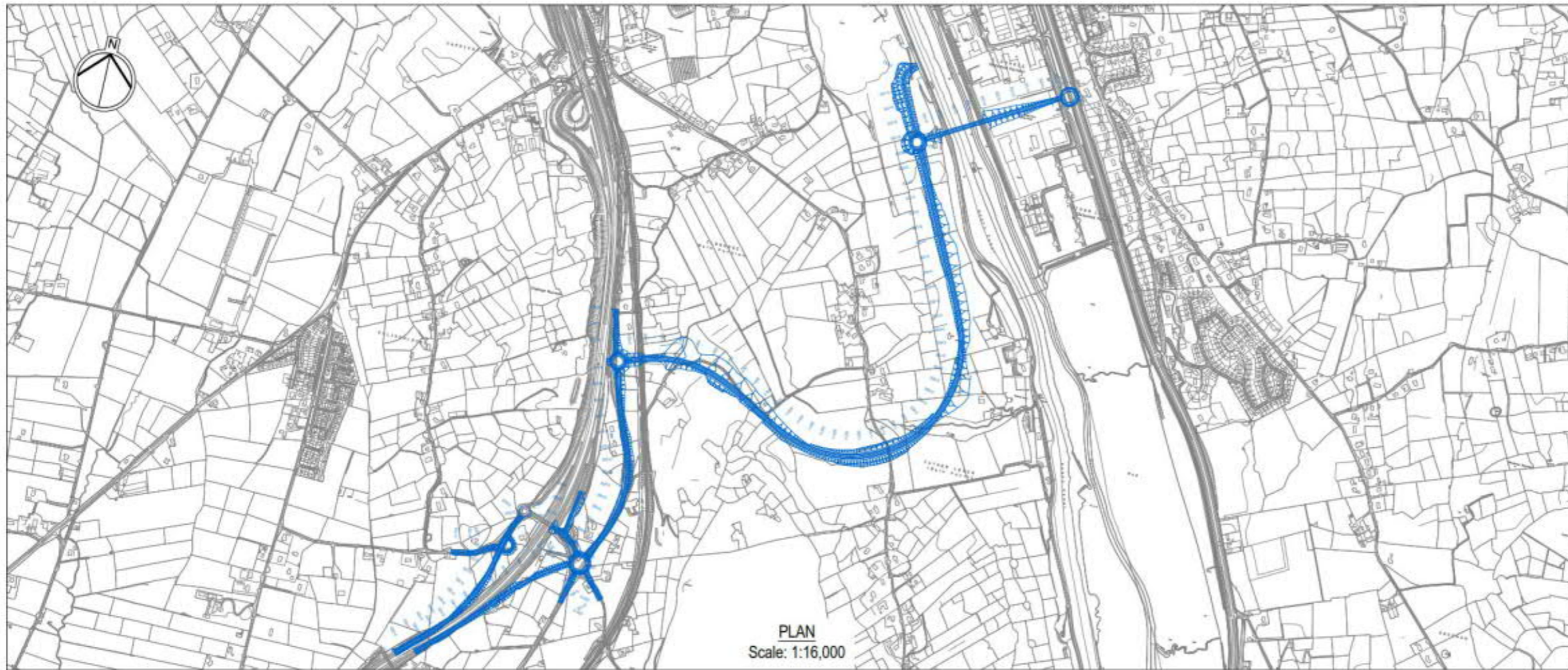
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 AECOM Internal Project Number  
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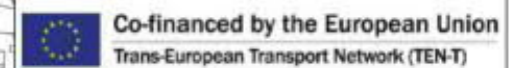
**FIGURE 3.5.2**  
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PLAN  
Scale: 1:16,000

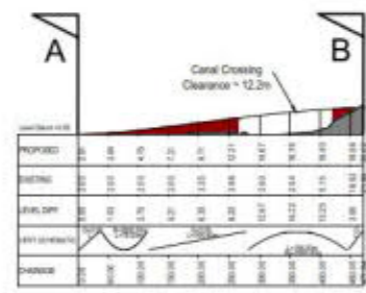
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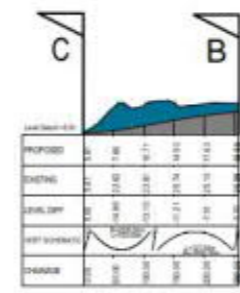
Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
DESCRIPTION OF THE SCHEME  
BLUE ROUTE OPTION 1**

**KEY**

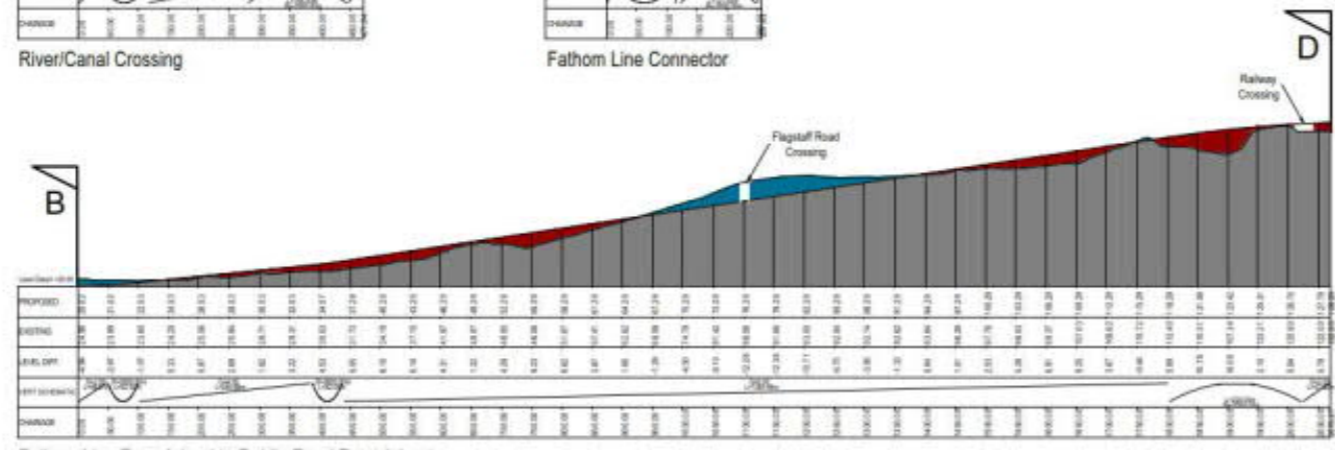
- Existing Ground
- Fill
- Excavation
- Blue Route Option 1



River/Canal Crossing



Fathom Line Connector



Fathom Line Roundabout to Dublin Road Roundabout

PROFILE  
Scale: Horz 1:12,500 Vert 1:5,000

Scale @ A3  
1:16,000

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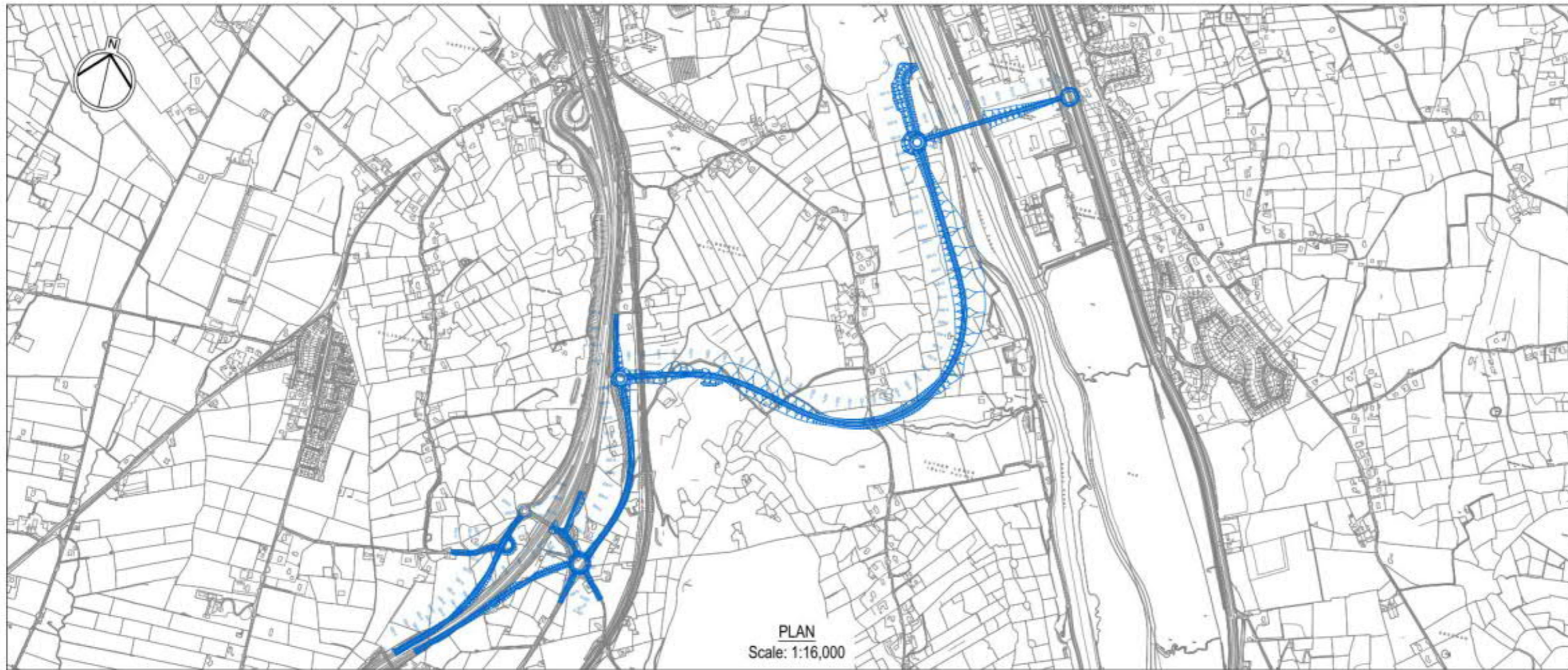
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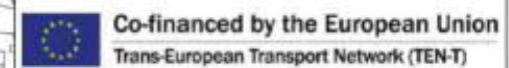
**FIGURE 3.5.3**

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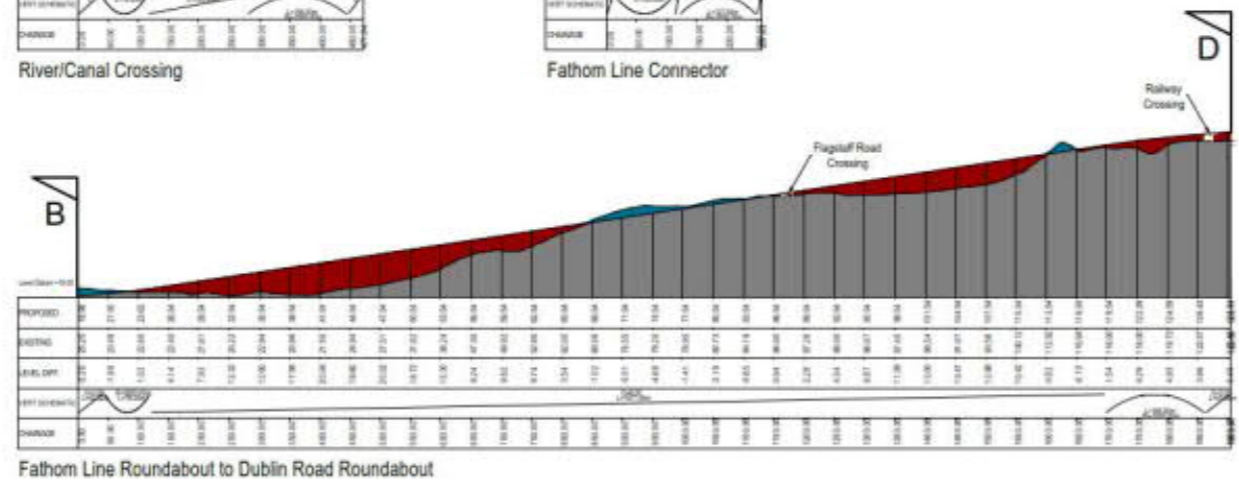
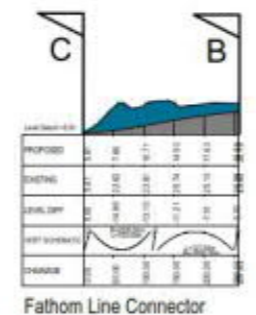
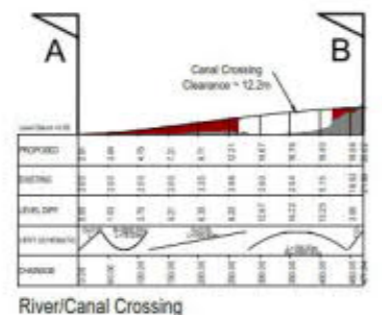
Project Title  
**NEWRY SOUTHERN RELIEF ROAD**



Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
DESCRIPTION OF THE SCHEME  
BLUE ROUTE OPTION 2**

**KEY**

- Existing Ground
- Fill
- Excavation
- Blue Route Option 2



**PROFILE**  
Scale: Horz 1:12,500 Vert 1:5,000

Scale @ A3  
1:16,000  
AECOM Internal Project Number  
60472927

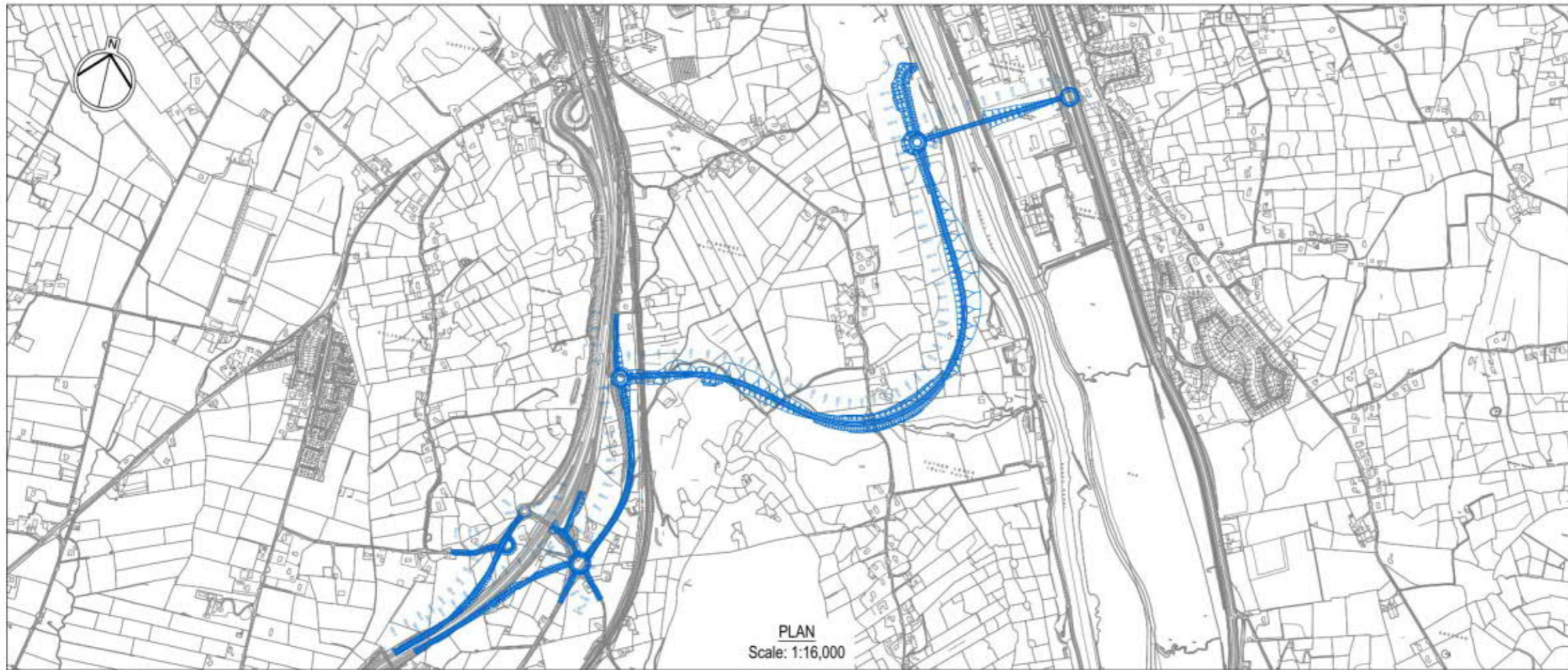
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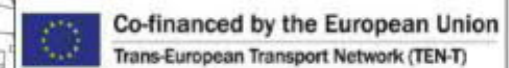
**FIGURE 3.5.4**

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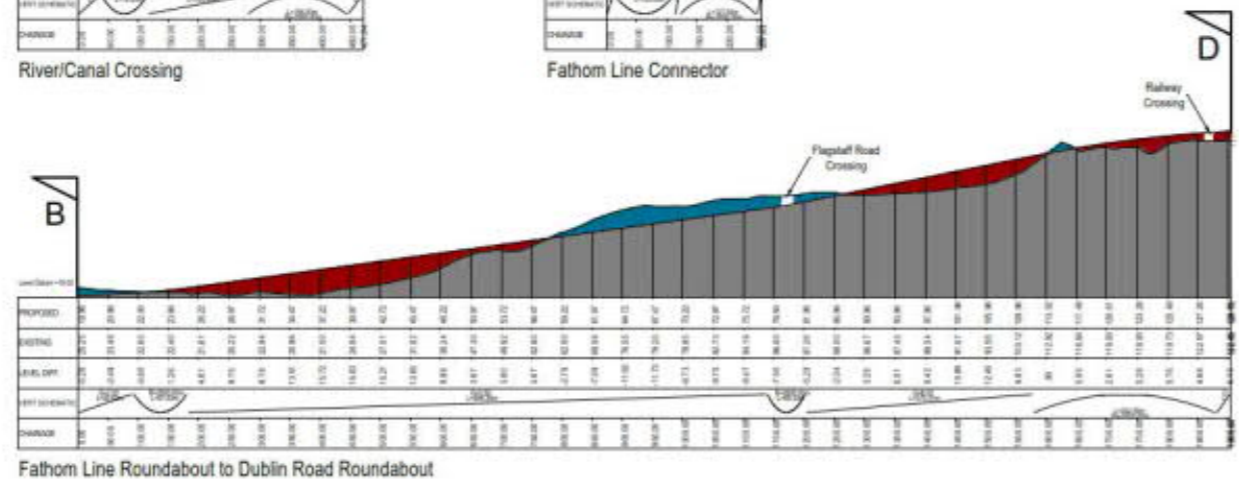
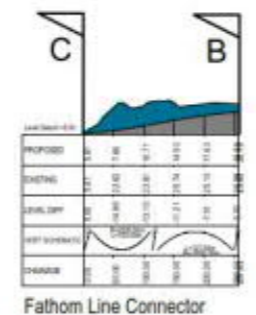
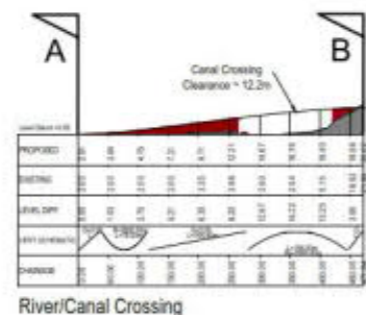
Project Title  
**NEWRY SOUTHERN RELIEF ROAD**



Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
DESCRIPTION OF THE SCHEME  
BLUE ROUTE OPTION 3**

**KEY**

	Existing Ground
	Fill
	Excavation
	Blue Route Option 3



**PROFILE**  
Scale: Horz 1:12,500 Vert 1:5,000

Scale @ A3  
1:16,000  
AECOM Internal Project Number  
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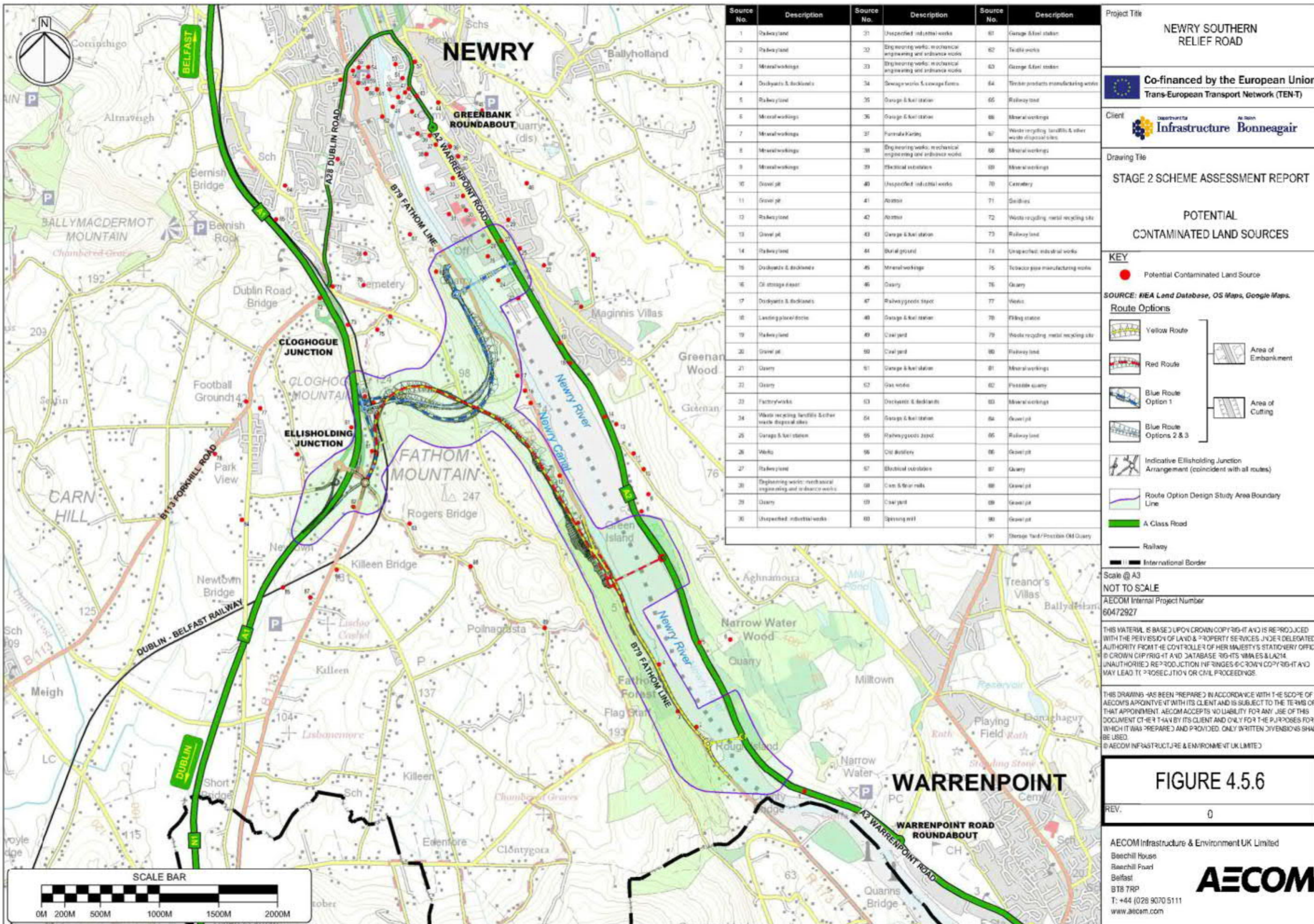
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**FIGURE 3.5.5**

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**Project Title**  
NEWRY SOUTHERN RELIEF ROAD

**Co-financed by the European Union**  
Trans-European Transport Network (TEN-T)

**Client**

**Drawing Title**  
STAGE 2 SCHEME ASSESSMENT REPORT

**POTENTIAL CONTAMINATED LAND SOURCES**

**KEY**  
 Potential Contaminated Land Source

**SOURCE: IEA Land Database, OS Maps, Google Maps.**

**Route Options**

- Yellow Route
- Red Route
- Blue Route Option 1
- Blue Route Options 2 & 3
- Indicative Ellisholding Junction Arrangement (coincident with all routes)
- Route Option Design Study Area Boundary Line
- A Class Road
- Railway
- International Border

**Scale @ A3**  
NOT TO SCALE

AECOM Internal Project Number  
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**FIGURE 4.5.6**

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Project Title  
**NEWRY SOUTHERN RELIEF ROAD**

Co-financed by the European Union  
Trans-European Transport Network (TEN-T)

Client  
**Infrastructure Bonnegaire**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
PUBLIC UTILITIES  
ELECTRICITY**

KEY  
 — NIE 33kV  
 — NIE 11kV  
 — NIE Medium Voltage

Scale @ A3  
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AECOM Internal Project Number  
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**FIGURE 4.6.1**

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Project Title  
**NEWRY SOUTHERN RELIEF ROAD**

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Trans-European Transport Network (TEN-T)

Client  
**Infrastructure Bonnegaire**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
PUBLIC UTILITIES  
SEWERAGE & WATERMAINS**

KEY

- Watermain
- Combined Foul and Storm Sewer
- Foul Sewer
- Storm Sewer

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**FIGURE 4.6.2**


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Project Title  
**NEWRY SOUTHERN RELIEF ROAD**

 **Co-financed by the European Union**  
 Trans-European Transport Network (TEN-T)

Client  
 **Infrastructure**  **Bonnegair**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT**  
**PUBLIC UTILITIES**  
**TELECOMMUNICATIONS**

**KEY**  
 BT Overhead  
 BT Underground  
 Virgin Media & Eircom

Scale @ A3  
 1:25,000  
 AECOM Internal Project Number  
 60472927

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**FIGURE 4.6.3**  
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Project Title  
**NEWRY SOUTHERN RELIEF ROAD**

Co-financed by the European Union  
 Trans-European Transport Network (TEN-T)

Client  
**Infrastructure Bonnegaire**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
 PUBLIC UTILITIES  
 FIRMUS GAS**

KEY  
 — Distribution Pipe (Low Pressure)  
 — Distribution Pipe (Medium Pressure)

Scale @ A3  
 1:25,000  
 AECOM Internal Project Number  
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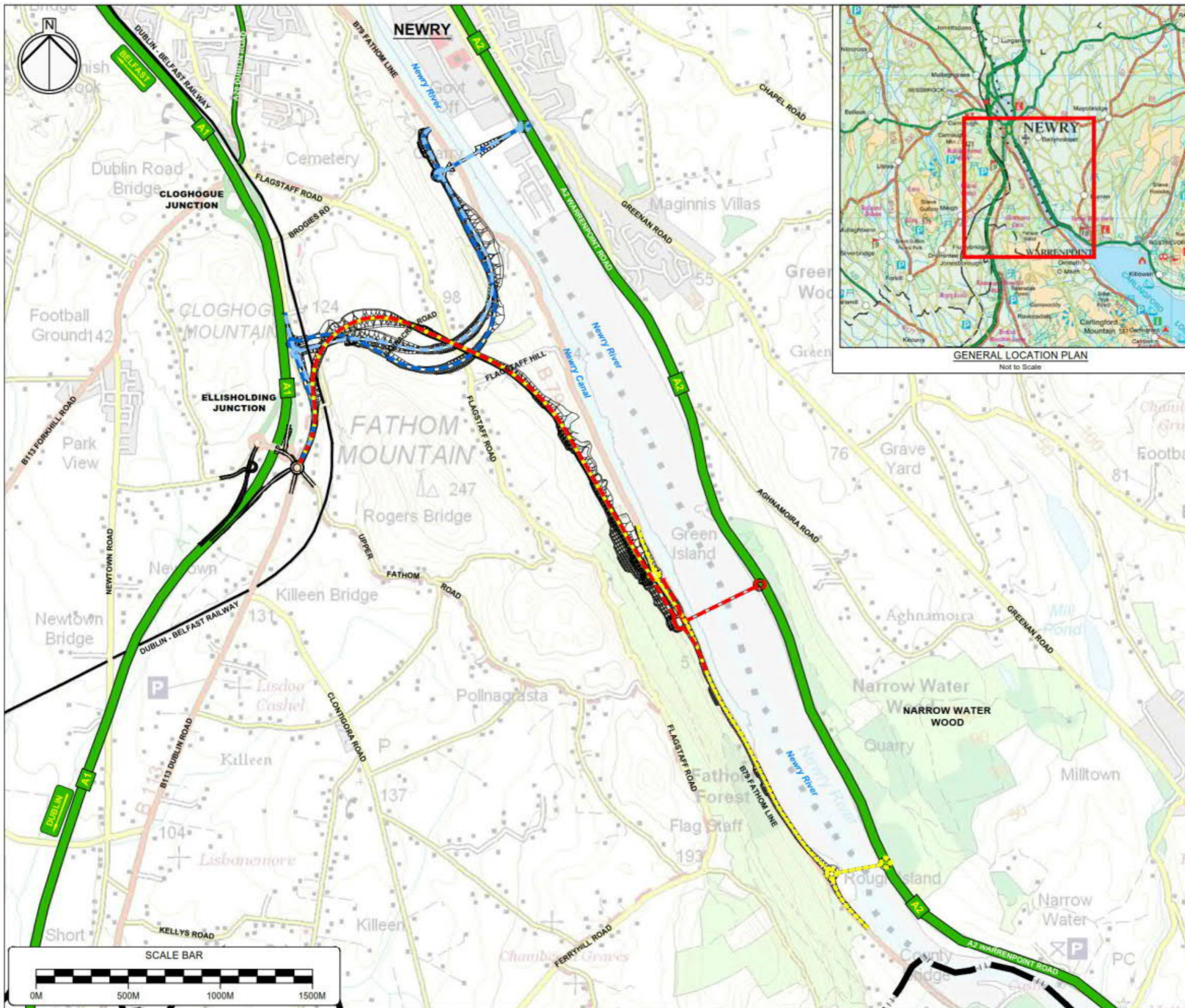
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**FIGURE 4.6.4**

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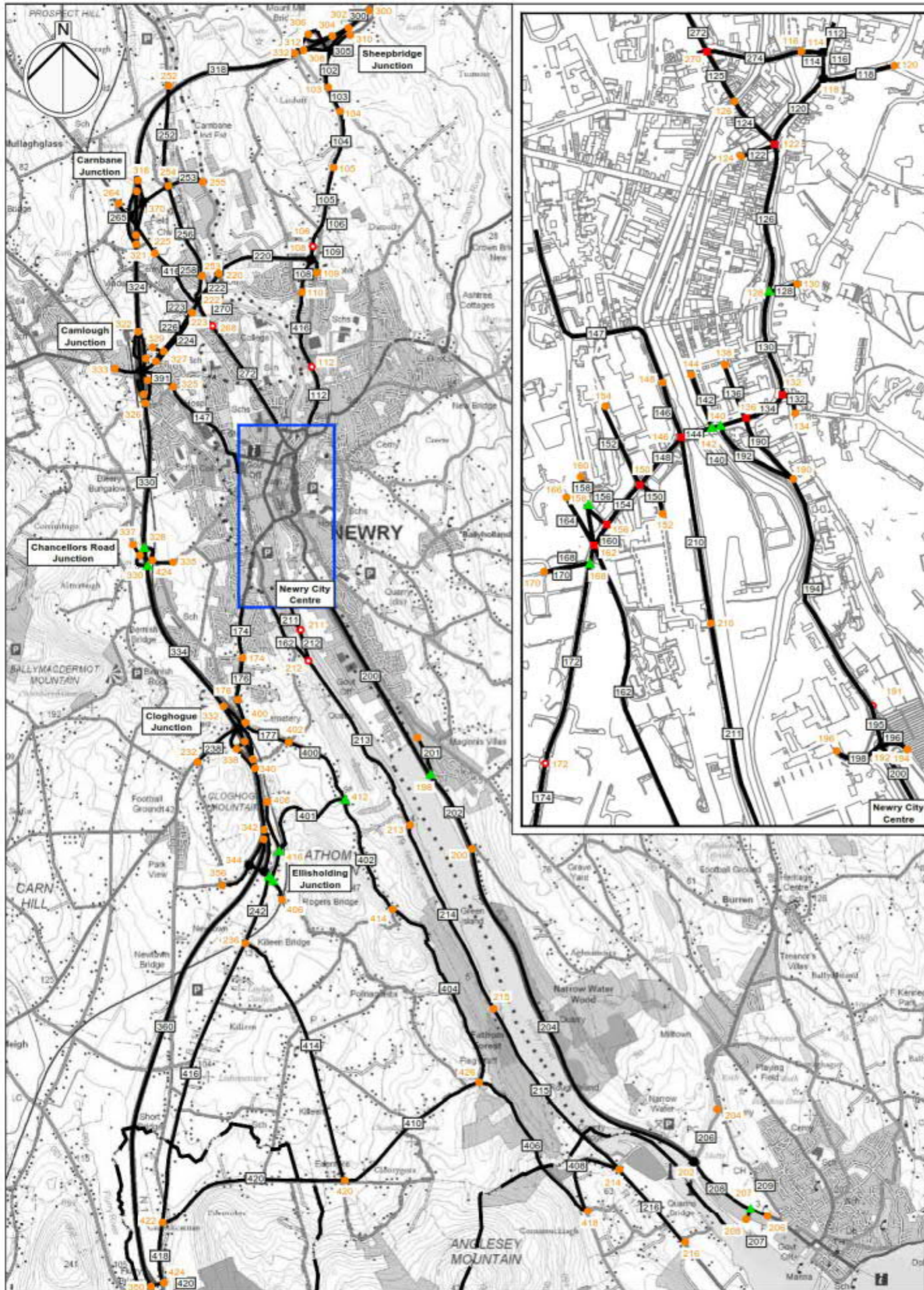
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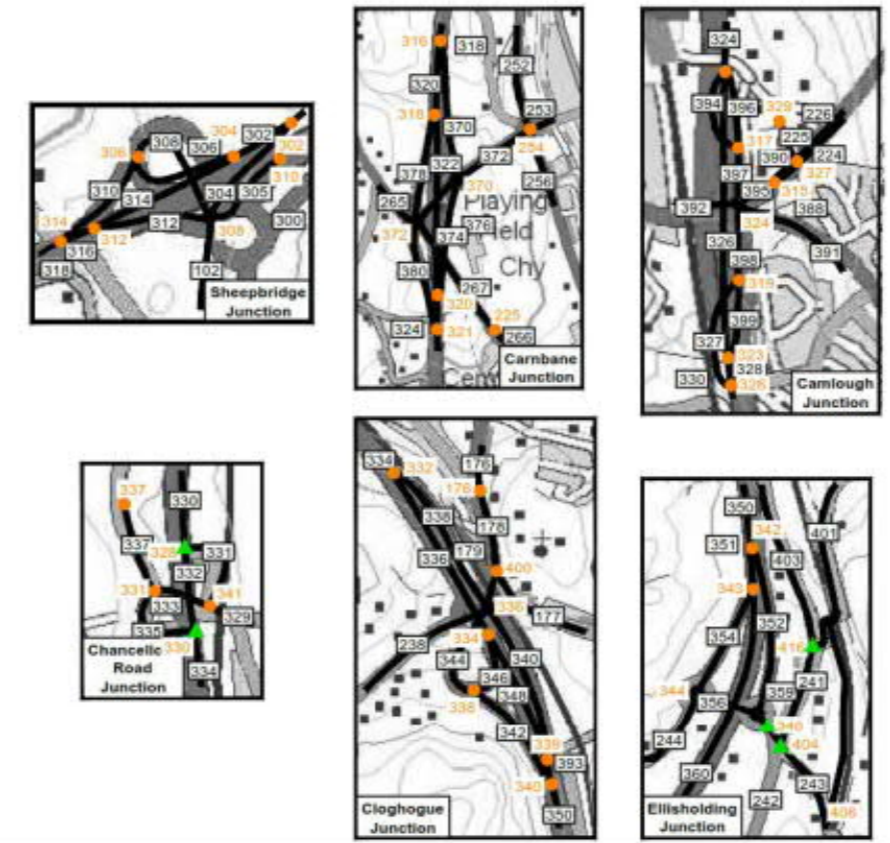


<b>Project Title</b>	<b>NEWRY SOUTHERN RELIEF ROAD</b>
<b>Co-financed by the European Union</b> Trans-European Transport Network (TEN-T)	
<b>Client</b>	<b>Infrastructure Bonnair</b>
<b>Drawing Title</b>	<b>STAGE 2 SCHEME ASSESSMENT REPORT</b>  <b>LOCATION PLAN</b> <b>STUDY AREA</b>
<b>KEY</b>	<p><b>Route Options</b></p> <ul style="list-style-type: none"> <li> Yellow Route</li> <li> Red Route</li> <li> Blue Route Option 1</li> <li> Blue Route Options 2 &amp; 3</li> <li> Indicative Ellisholding Junction Arrangement (coincident with all routes)</li> </ul> <p> A Class Road</p> <p> Railway</p> <p> International Border</p>
<b>Scale @ A3</b>	<b>NOT TO SCALE</b>
<b>AECOM Internal Project Number</b>	60472927
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<b>FIGURE 5.1.1</b>	
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Link	Do Min 24hr flow-AADT	Do Min Ave Speed	Peak Hourly Speed	Link	Do Min 24hr flow-AADT	Do Min Ave Speed	Peak Hourly Speed
102	12419.85	86.39	86.03	200	15204.19	98.92	98.4
103	11903.75	86.11	86.1	202	16653.13	96.89	96.21
104	11903.75	86.44	86.1	241	190.96	82.02	82.22
105	11903.75	64.37	60.98	244	749.63	73.95	73.87
106	11387.66	64	64	314	20537.88	107.36	101.54
108	17782.09	34.46	25	316	22038.59	87.46	86.52
110	18985.88	39.36	28.76	318	23349.47	95.07	94.05
112	20188.38	39.73	28.06	320	21332.83	95.25	94.34
116	26796.99	27.04	19.3	322	19271.03	93.97	93.2
120	29898.73	25.6	16.96	323	22968.85	93.65	92.66
126	22874.67	26.37	19.76	324	26880.86	91.12	89.93
130	24696.48	28.02	20.88	326	20076.13	104.77	104.01
134	18495.59	19.65	15	328	24097.81	104.42	103.43
138	20888.99	21.78	17.75	330	27657.58	104.11	102.91
140	26620.23	20	15	332	27657.58	104.11	102.91
144	23541.72	17.31	15	334	27657.58	104.11	102.91
148	16019.62	16.17	15	336	24185.55	104.41	103.42
154	15920.27	17.45	15	340	4468.1	74.45	72.05
160	16178.32	17.27	15	342	4244.89	87.63	85.54
168	17064.71	16.67	15	344	7378.88	85.54	83.73
172	17064.71	16.67	15	348	21051.55	104.69	103.87
174	16677.64	50.87	44.23	351	27642.1	104.11	102.92
176	16677.64	50.87	44.23	352	2122.44	88.63	87.77
178	16289.28	47.22	38.3	354	3306.89	88.01	86.46
179	16289.28	47.22	38.3	356	3646.22	60.01	59.03
190	17162.77	22.29	15	358	5296.43	56.25	54.76
192	5710.6	34.19	30.89	359	345.78	55.42	55.46
194	23224.32	36.91	25	393	25519.65	104.29	103.22
195	23573.97	45	45				



Project Title  
**NEWRY SOUTHERN RELIEF ROAD**

Co-financed by the European Union  
Trans-European Transport Network (TEN-T)

Client  
**Infrastructure Bonnégair**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
AIR QUALITY**

**ROAD NETWORK (DO-MINIMUM)**

**KEY**

- Link
- Node Point
- Node Number
- Roundabout
- Link Number
- Traffic Signals
- Priority Junction
- Speed Limit Change Point

Scale @ A3  
**NOT TO SCALE**

AECOM Internal Project Number  
60472927

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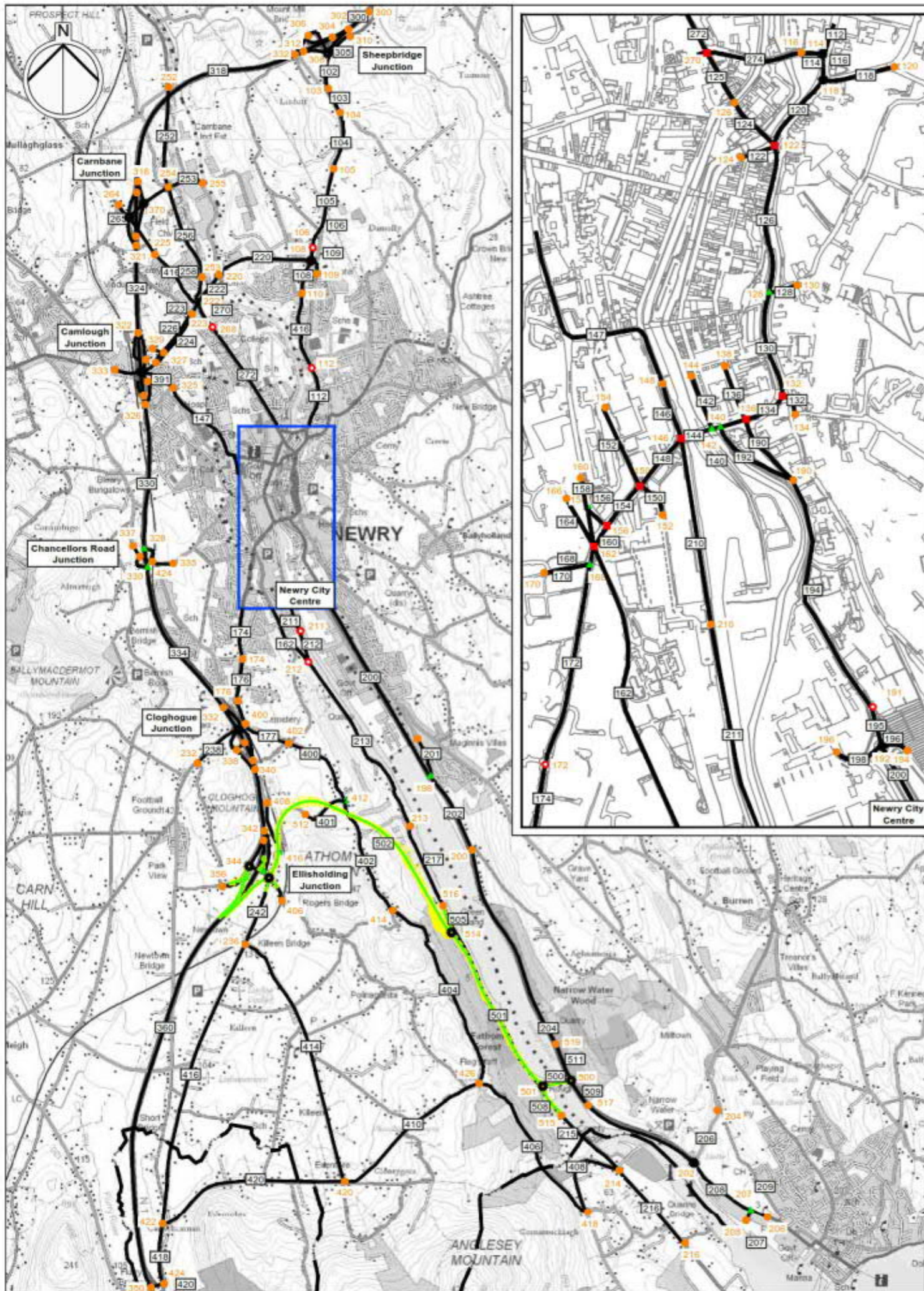
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**FIGURE 5.2.1**

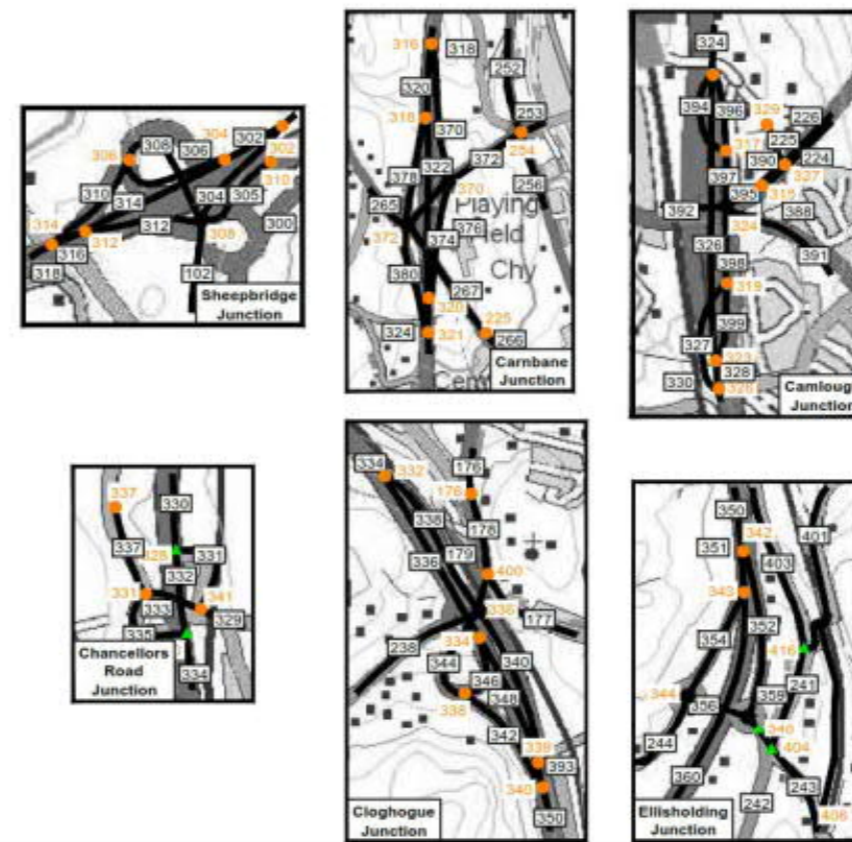
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Link	Do Some 24hr flow-AADT	Do Some Ave Speed	Peak Hourly Speed	Link	Do Some 24hr flow-AADT	Do Some Ave Speed	Peak Hourly Speed
102	11323.15	86.49	86.19	244	749.63	45.88	45.68
103	10807.05	86.53	86.26	314	21629.58	102.27	101.38
104	10807.05	86.53	86.26	316	23135.29	87.36	86.36
105	10807.05	64.91	61.84	318	24446.17	94.97	93.89
106	10290.96	64	64	320	22429.53	95.15	94.18
108	16491.85	36.07	25	322	20367.73	93.87	93.04
110	17695.64	40.54	30.59	323	24452.63	93.51	92.45
112	18898.14	40.93	30.01	324	28751.71	90.95	89.66
116	24926.14	27.91	20.71	326	21946.98	104.61	103.74
120	28027.88	26.47	18.37	328	26420.25	104.22	103.09
126	21003.82	27.24	21.17	330	30431.6	103.86	102.51
130	22825.63	28.89	22.29	332	30431.6	103.86	102.51
134	16624.74	20.52	15.72	334	30431.6	103.86	102.51
138	19018.14	22.36	18.69	336	26959.57	104.17	103.02
140	23846.21	20.86	16.27	348	23825.57	104.44	103.47
144	20767.7	18.6	15	352	3541.71	87.26	85.57
148	14148.77	17.58	15	354	4661.64	86.7	84.36
154	14049.42	18.72	15	356	5968.65	84.01	82.59
160	14307.47	18.54	15	357	22464.37	100.01	99.05
168	15193.87	17.94	15	358	9022.65	45	45
172	15193.87	17.94	15	393	27390.5	104.13	102.95
174	14806.79	52.09	46.2	500	4644.86	88.44	87.46
176	14806.79	52.09	46.2	501	7931.1	86.34	84.39
178	14418.43	48.88	41	502	4773.89	90.82	89.84
179	14418.43	48.88	41	503	4835.82	91.59	90.6
190	13421.07	25.77	18.02	504	903.17	90.68	90.55
194	18579.46	41.23	30.49	505	3286.24	81.26	80.56
195	18929.11	45	45	506	967.68	85.46	85.21
200	10559.32	99.33	99.08	507	1717.31	93.66	93.59
202	12008.26	97.3	96.91	508	3286.24	81.26	80.56
203	12008.26	97.3	96.91	509	16653.13	96.89	96.24
217	3286.24	64.96	64.07	511	12008.26	97.3	96.91



Project Title  
**NEWRY SOUTHERN RELIEF ROAD**

Co-financed by the European Union  
Trans-European Transport Network (TEN-T)

Client  
**Infrastructure Bonnegar**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
AIR QUALITY  
ROAD NETWORK  
DO-SOMETHING YELLOW ROUTE**

**KEY**

- Link
- Node Point
- Node Number
- Roundabout
- Link Number
- Traffic Signals
- Route Option
- Priority Junction
- Yellow Route
- Speed Limit Change Point

Scale @ A3  
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AECOM Internal Project Number  
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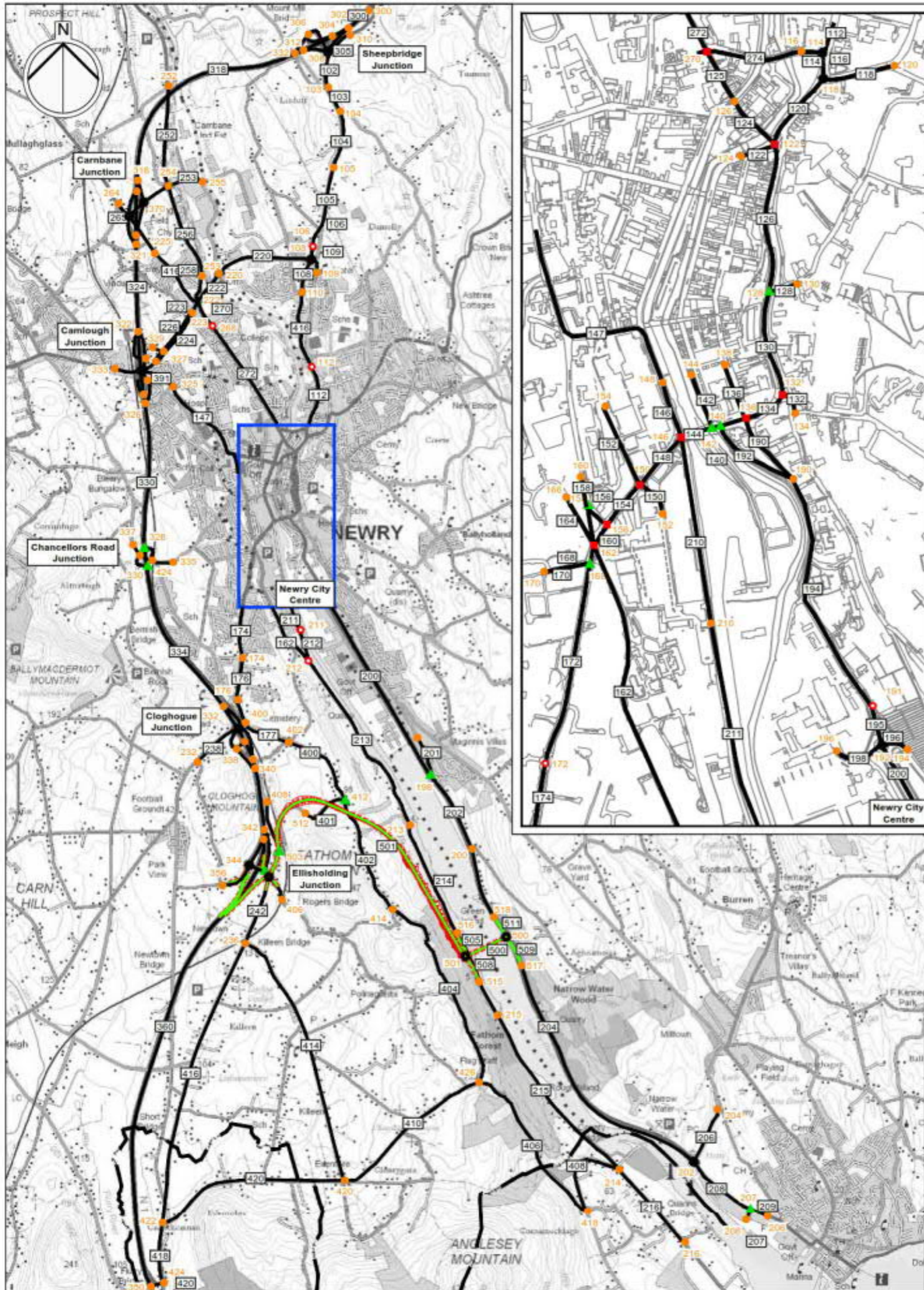
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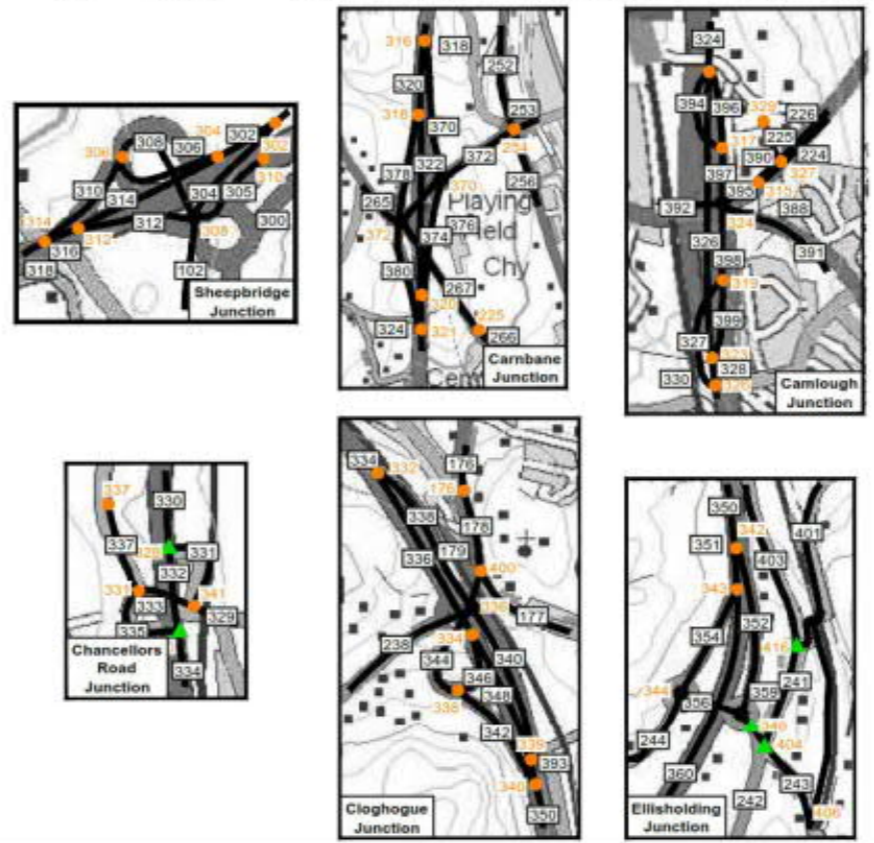
**FIGURE 5.2.2**

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Link	Do Some 24hr flow-AADT	Do Some Ave Speed	Peak Hourly Speed	Link	Do Some 24hr flow-AADT	Do Some Ave Speed	Peak Hourly Speed
102	11323.15	86.49	86.19	314	21629.58	102.27	101.38
103	10807.05	86.53	86.26	316	23135.29	87.36	86.36
104	10807.05	86.53	86.26	318	24446.17	94.97	93.89
105	10807.05	64.91	61.84	320	22429.53	95.15	94.18
106	10290.95	64	64	322	20367.73	93.87	93.04
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112	18898.14	40.93	30.01	326	21946.98	104.61	103.74
116	24926.14	27.91	20.71	328	26420.25	104.22	103.09
120	28027.88	26.47	18.37	330	30431.6	103.86	102.51
126	21003.82	27.24	21.17	332	30431.6	103.86	102.51
130	22825.63	28.89	22.29	334	30431.6	103.86	102.51
134	16624.74	20.52	15.72	336	26959.57	104.17	103.02
138	18502.04	22.52	18.95	340	2984.32	75.88	74.35
140	22749.51	21.2	16.82	342	2761.11	89.06	87.84
144	19671	19.11	15	344	5895.11	86.25	84.88
148	13052.07	18.41	15	348	23825.57	104.44	103.47
154	12952.72	19.46	15	351	26029.3	104.25	103.15
160	13210.77	19.28	15	352	3541.71	87.26	85.57
168	14097.16	18.68	15	354	4661.64	86.7	84.36
172	14097.16	18.68	15	356	6484.75	83.76	82.19
174	13710.09	52.8	47.35	357	21367.66	100.11	99.21
176	13710.09	52.8	47.35	358	9538.74	45	45
178	13321.73	49.85	42.58	393	26809.9	104.18	103.04
179	13321.73	49.85	42.58	500	5741.57	87.91	86.61
190	12904.98	26.25	18.79	501	5870.59	90.85	89.56
192	4226.83	35.57	33.13	503	5932.52	91.04	89.73
194	17482.75	42.25	32.14	504	1483.78	90.12	89.65
195	17832.41	45	45	505	3286.24	83.89	83.23
200	11656.03	99.23	98.92	506	1483.78	84.96	84.41
202	13104.97	97.2	96.76	507	2233.41	93.41	93.19
203	13104.97	97.2	96.76	508	3286.24	87.09	86.48
217	3286.24	64.96	64.07	509	16653.13	96.89	96.24
244	749.63	45.88	45.68	511	13104.97	97.2	96.76



Project Title  
**NEWRY SOUTHERN RELIEF ROAD**

Co-financed by the European Union  
Trans-European Transport Network (TEN-T)

Client  
**Infrastructure Bonnemaier**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
AIR QUALITY  
ROAD NETWORK  
DO-SOMETHING RED ROUTE**

**KEY**

- Link
- Node Point
- Node Number
- Roundabout
- Link Number
- Traffic Signals
- Route Option
- Priority Junction
- Red Route
- Speed Limit Change Point

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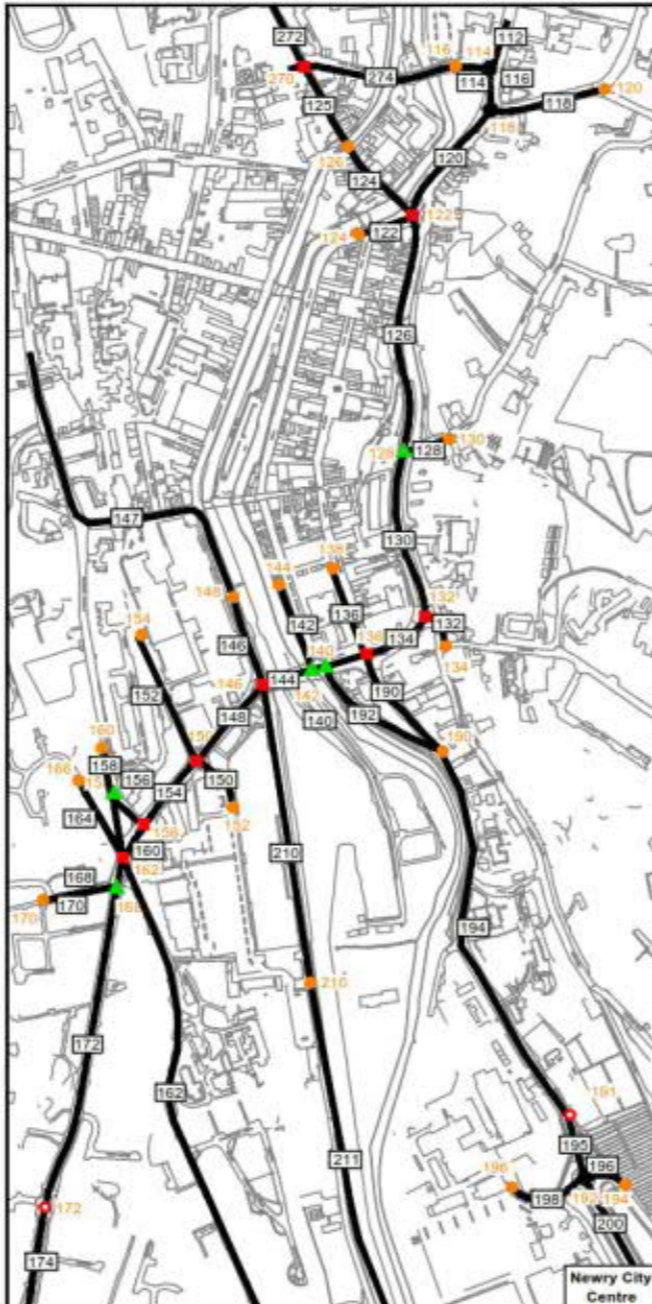
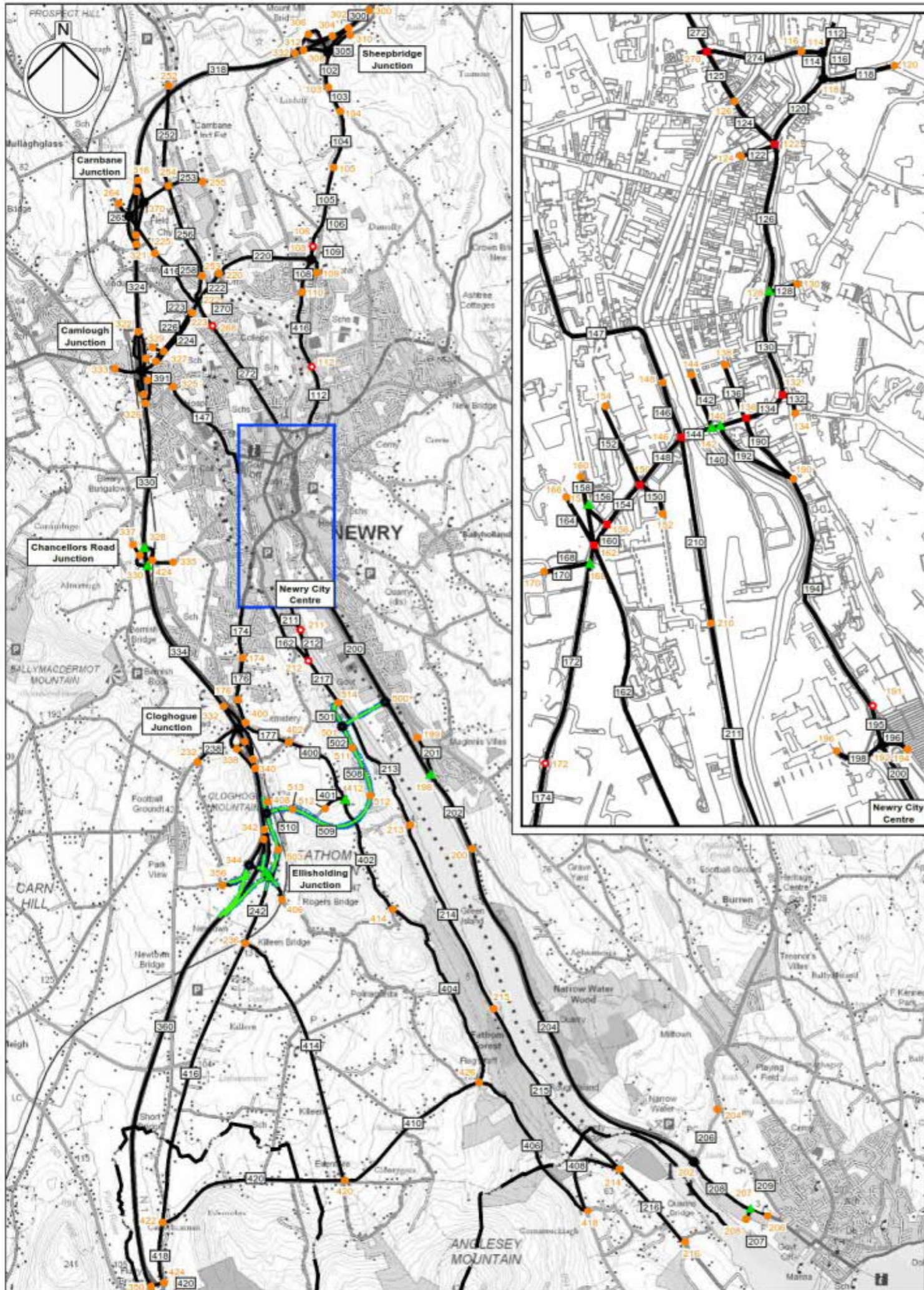
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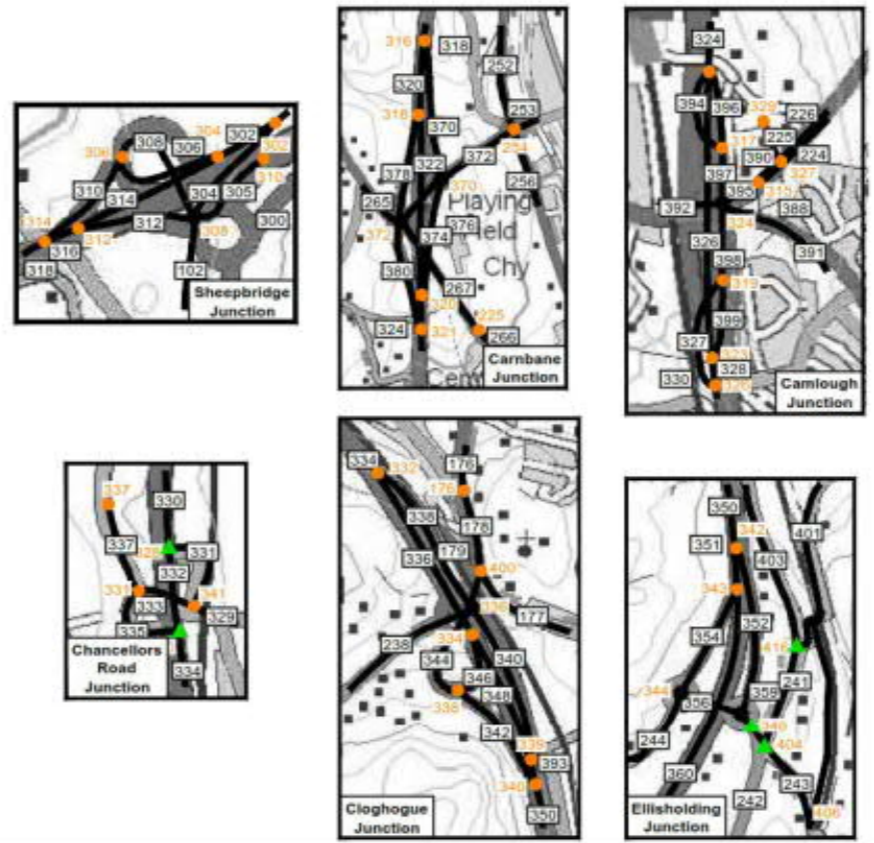
**FIGURE 5.2.3**

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Link	Do Some 24hr flow-AADT	Do Some Ave Speed	Peak Hourly Speed	Link	Do Some 24hr flow-AADT	Do Some Ave Speed	Peak Hourly Speed
116	25474.5	27.66	20.3	328	25646.1	104.28	103.21
120	28576.24	26.22	17.96	330	29431.67	103.95	102.66
126	21552.17	26.98	20.75	332	29431.67	103.95	102.66
130	23373.99	28.63	21.88	334	29431.67	103.95	102.66
134	17173.09	20.27	15.3	336	25959.62	104.26	103.16
138	18437.53	22.54	18.98	340	2726.28	76.13	74.75
140	22685	21.22	16.85	342	2503.07	89.31	88.24
144	19606.48	19.14	15	344	5637.06	86.37	85.08
148	12535.97	18.8	15	348	22825.63	104.53	103.62
154	12436.62	19.81	15	350	28054.98	104.07	102.86
160	12694.67	19.63	15	351	25029.37	104.34	103.3
168	13581.05	19.03	15	356	6258.95	83.87	82.36
172	13581.05	19.03	15	357	20851.57	100.16	99.29
174	13193.99	53.13	47.89	358	8796.86	45	45
176	13193.99	53.13	47.89	500	5257.73	88.14	86.98
178	12805.63	50.31	43.32	501	129.02	74.86	74.98
179	12805.63	50.31	43.32	502	5386.75	93.2	92.08
190	14421.01	24.84	16.51	503	5448.68	91.29	90.12
192	4226.83	35.57	33.13	504	1741.82	89.87	89.25
194	18998.78	40.84	29.86	505	5448.68	82.29	81
195	19348.44	45	45	506	1741.82	84.71	84.01
203	13168.19	99.1	98.7	507	2491.45	93.29	92.99
217	3221.73	64.99	64.12	508	5386.75	93.2	92.08
244	749.63	45.88	45.68	509	5386.75	86.01	84.79
324	28203.36	91	89.74	510	5386.75	90.48	89.31
326	21398.63	104.66	103.82				



Project Title  
**NEWRY SOUTHERN RELIEF ROAD**

Co-financed by the European Union  
Trans-European Transport Network (TEN-T)

Client  
**Infrastructure Bonnégair**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
AIR QUALITY  
ROAD NETWORK  
DO-SOMETHING BLUE ROUTE OPTION 1**

**KEY**

- Link
- Node Point
- Node Number
- Roundabout
- Link Number
- Traffic Signals
- Route Option
- Priority Junction
- Blue Route Option 1
- Speed Limit Change Point

Scale @ A3  
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AECOM Internal Project Number  
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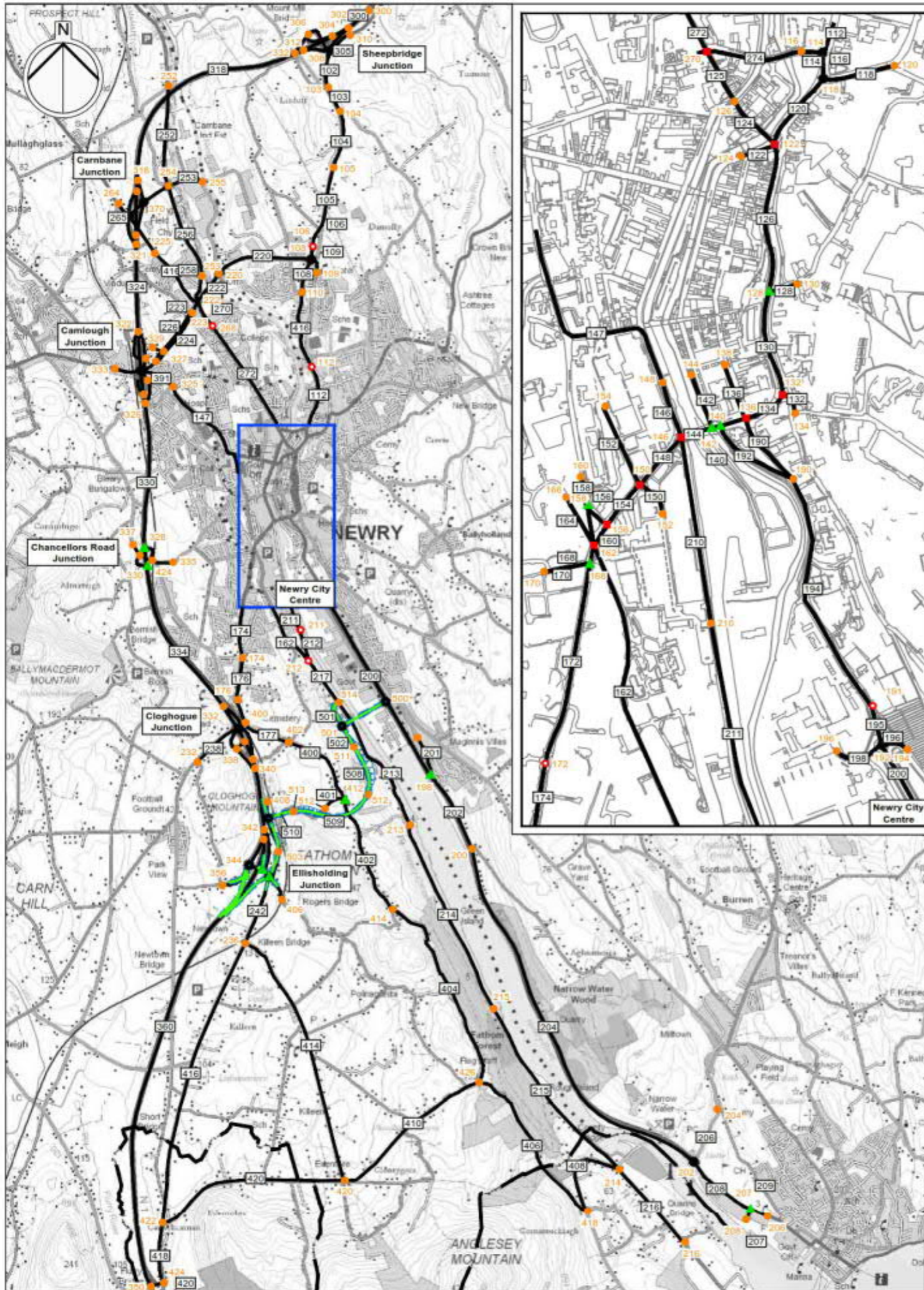
**FIGURE 5.2.4**

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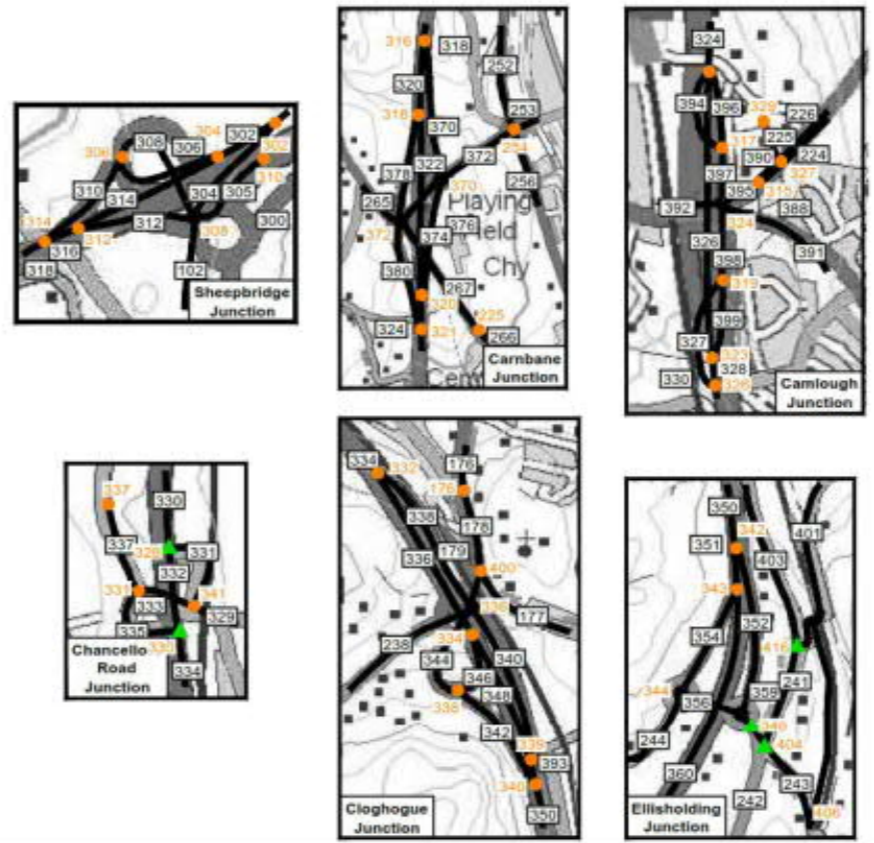
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Link	Do Some 24hr flow-AADT	Do Some Ave Speed	Peak Hourly Speed	Link	Do Some 24hr flow-AADT	Do Some Ave Speed	Peak Hourly Speed
116	25474.5	27.66	20.3	328	25646.1	104.28	103.21
120	28576.24	26.22	17.96	330	29431.67	103.95	102.66
126	21552.17	26.98	20.75	332	29431.67	103.95	102.66
130	23373.99	28.63	21.88	334	29431.67	103.95	102.66
134	17173.09	20.27	15.3	336	25959.62	104.26	103.16
138	18437.53	22.54	18.98	340	2726.28	76.13	74.75
140	22685	21.22	16.85	342	2503.07	89.31	88.24
144	19606.48	19.14	15	344	5637.06	86.37	85.08
148	12535.97	18.8	15	348	22825.63	104.53	103.62
154	12436.62	19.81	15	350	28054.98	104.07	102.86
160	12694.67	19.63	15	351	25029.37	104.34	103.3
168	13581.06	19.03	15	356	6258.95	83.87	82.36
172	13581.06	19.03	15	357	20851.57	100.16	99.29
174	13193.99	53.13	47.89	358	8796.86	45	45
176	13193.99	53.13	47.89	500	5257.73	88.14	86.98
178	12805.63	50.31	43.32	501	129.02	74.86	74.98
179	12805.63	50.31	43.32	502	5386.75	93.2	92.08
190	14421.01	24.84	16.51	503	5448.68	91.29	90.12
192	4226.83	35.57	33.13	504	1741.82	89.87	89.25
194	18998.78	40.84	29.86	505	5448.68	82.29	81
195	19348.44	45	45	506	1741.82	84.71	84.01
203	13168.19	99.1	98.7	507	2491.45	93.29	92.99
217	3221.73	64.99	64.12	508	5386.75	87.39	86.19
244	749.63	45.88	45.68	509	5386.75	87.27	86.06
324	28203.36	91	89.74	510	5386.75	93.2	92.08
326	21398.63	104.66	103.82				



Project Title  
**NEWRY SOUTHERN RELIEF ROAD**

Co-financed by the European Union  
Trans-European Transport Network (TEN-T)

Client  
**Infrastructure Bonnair**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
AIR QUALITY  
ROAD NETWORK  
DO-SOMETHING BLUE ROUTE OPTION 2**

**KEY**

- Link
- Node Point
- Node Number
- Roundabout
- Link Number
- Traffic Signals
- Route Option
- Priority Junction
- Blue Route Option 2
- Speed Limit Change Point

Scale @ A3  
**NOT TO SCALE**  
AECOM Internal Project Number  
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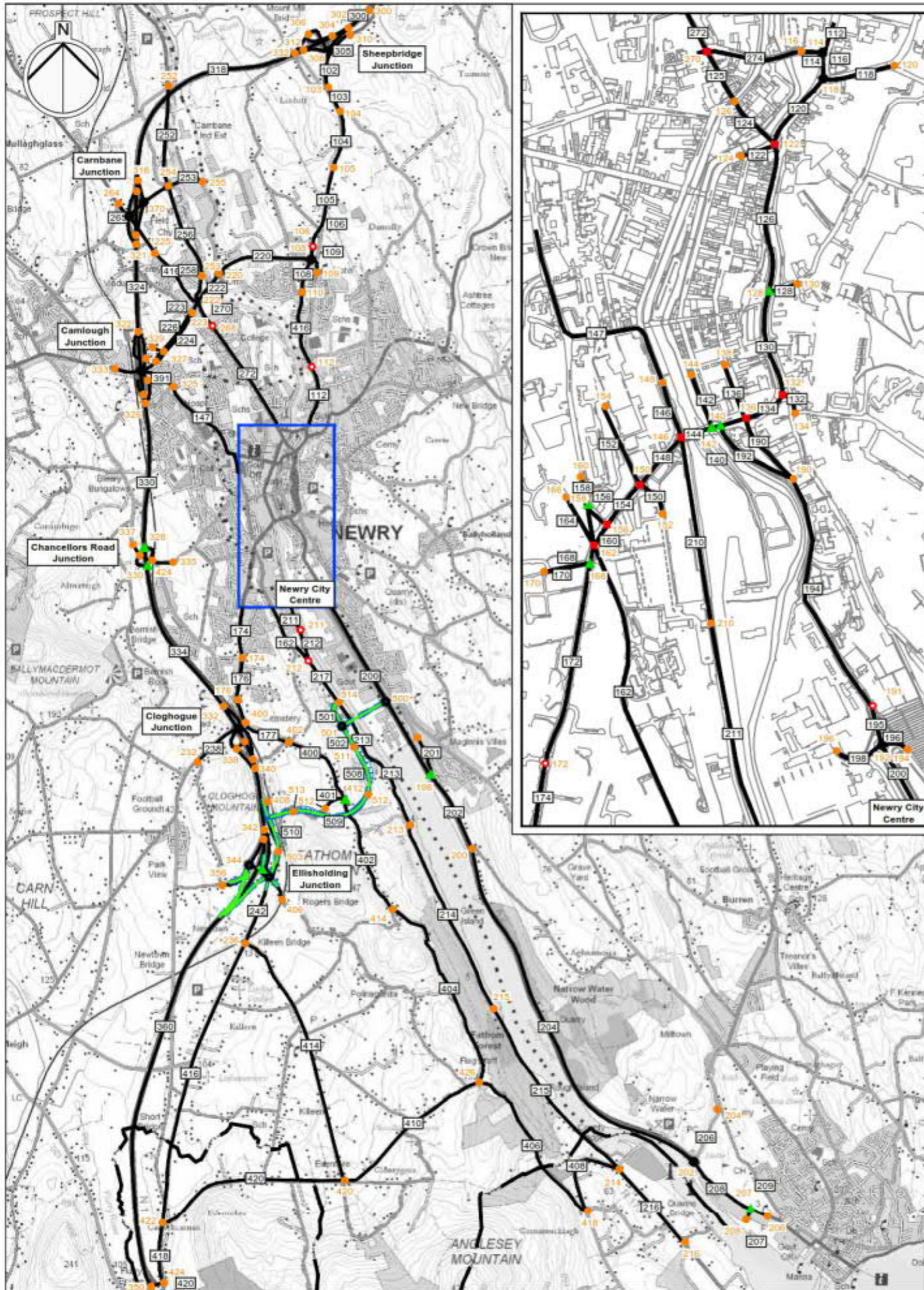
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**FIGURE 5.2.5**

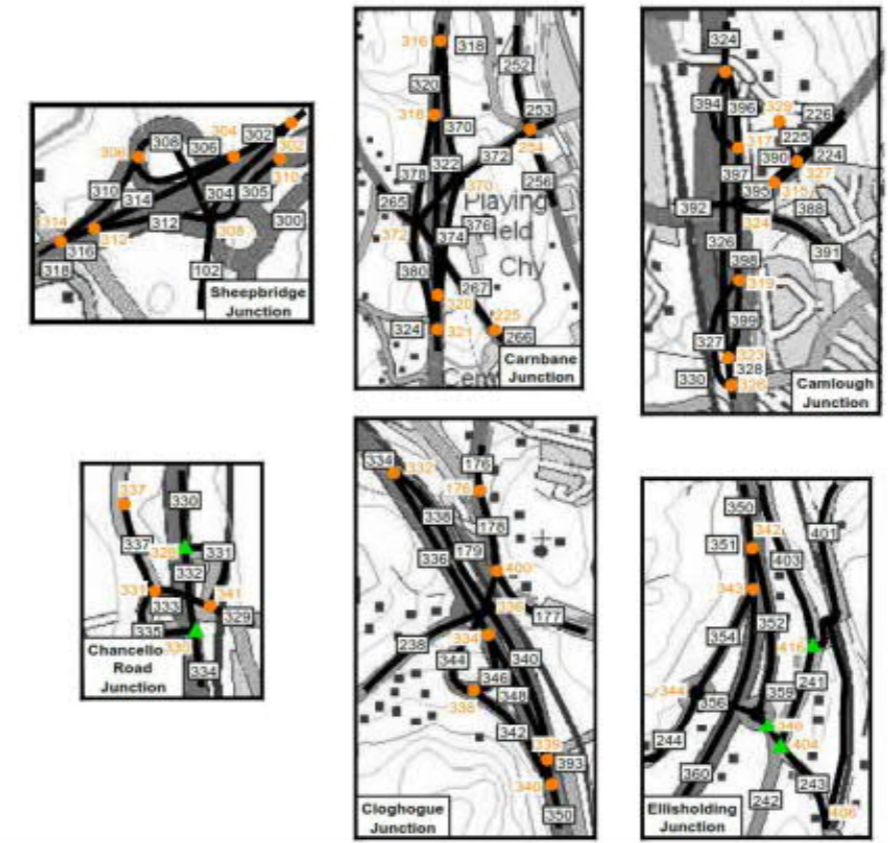
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Link	Do Some 24hr flow-AADT	Do Some Ave Speed	Peak Hourly Speed	Link	Do Some 24hr flow-AADT	Do Some Ave Speed	Peak Hourly Speed
116	25474.5	27.66	20.3	328	25646.1	104.28	103.21
120	28576.24	26.22	17.96	330	29431.67	103.95	102.66
126	21552.17	26.98	20.75	332	29431.67	103.95	102.66
130	23373.99	28.63	21.88	334	29431.67	103.95	102.66
134	17173.09	20.27	15.3	336	25959.62	104.26	103.16
138	18437.53	22.54	18.98	340	2726.28	76.13	74.75
140	22685	21.22	16.85	342	2503.07	89.31	88.24
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168	13581.06	19.03	15	356	6258.95	83.87	82.36
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244	749.63	45.88	45.68	509	5386.75	87.53	86.32
324	28203.36	91	89.74	510	5386.75	93.2	92.08
326	21398.63	104.66	103.82				



Project Title  
**NEWRY SOUTHERN RELIEF ROAD**

Co-financed by the European Union  
Trans-European Transport Network (TEN-T)

Client  
**Infrastructure Bonnégair**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
AIR QUALITY  
ROAD NETWORK  
DO-SOMETHING BLUE ROUTE OPTION 3**

**KEY**

- Link
- Node Point
- Node Number
- Roundabout
- Link Number
- Traffic Signals
- Route Option
- Priority Junction
- Blue Route Option 3
- Speed Limit Change Point

Scale @ A3  
**NOT TO SCALE**  
AECOM Internal Project Number  
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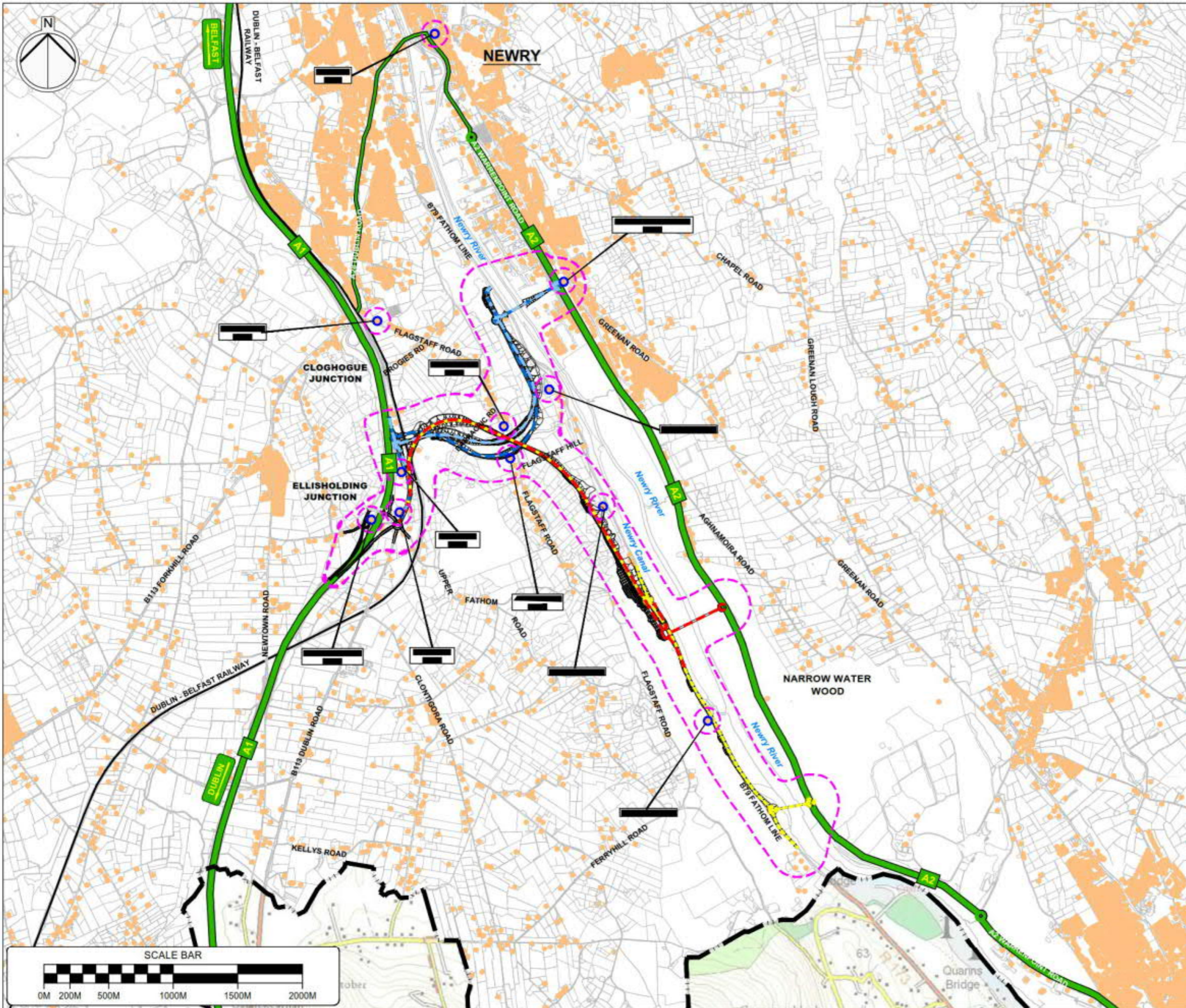
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**FIGURE 5.2.6**

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**Co-financed by the European Union**  
Trans-European Transport Network (TEN-T)

**Client**  
Department for Infrastructure  
An tAire  
Infrastructure Bonnégair

**Drawing Title**  
STAGE 2 SCHEME ASSESSMENT REPORT  
AIR QUALITY  
SENSITIVE RECEPTORS AND RECEPTOR LOCATIONS

**KEY**

- Sensitive Receptors
- Assessment Receptor
- 200 Meter Buffer Zone

**Route Options**

- Yellow Route
- Red Route
- Blue Route Option 1
- Blue Route Options 2 & 3
- Indicative Ellisholding Junction Arrangement (coincident with all routes)
- A Class Road
- Railway
- International Border

Scale @ A3  
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AECOM Internal Project Number 60472927

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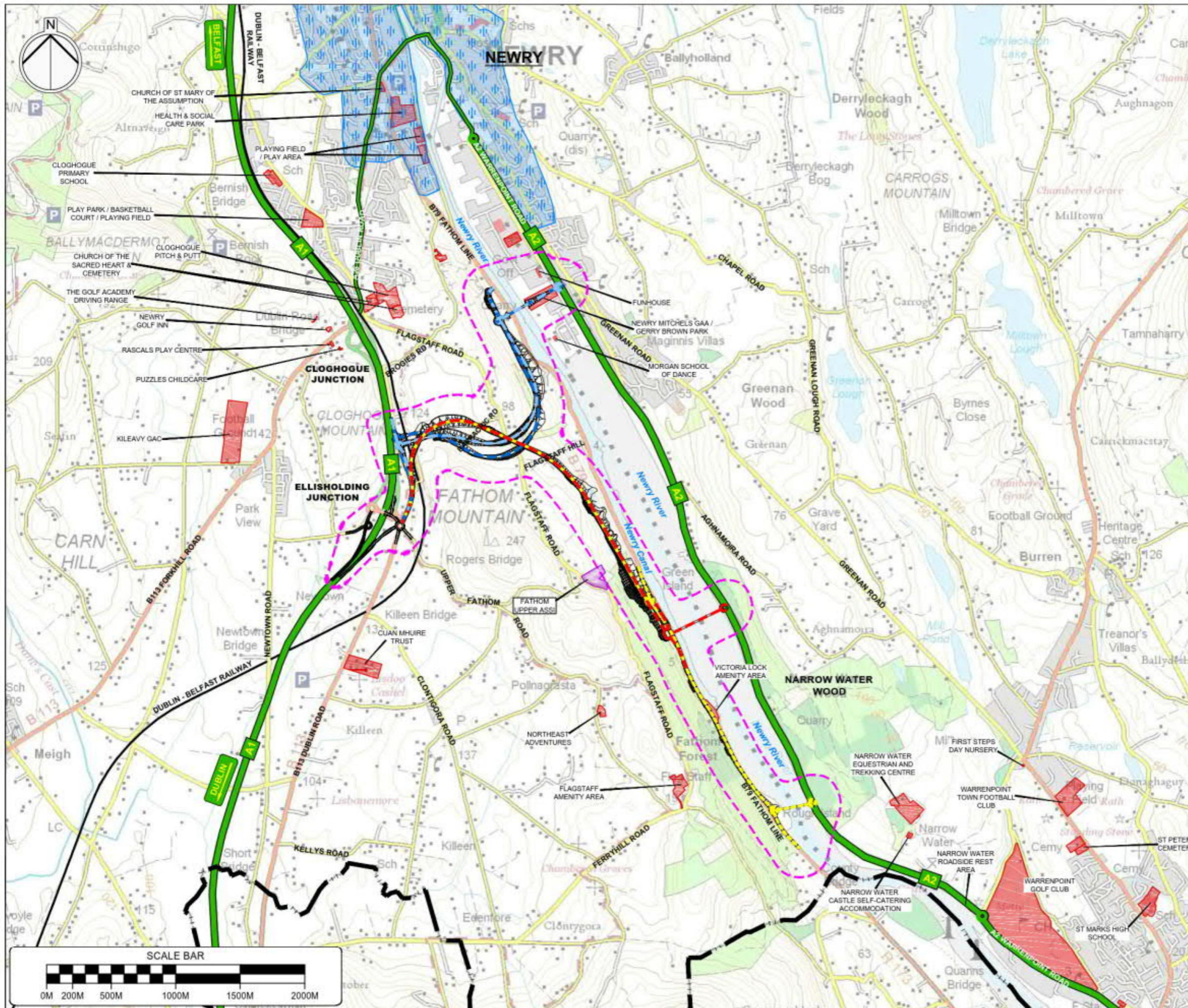
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**FIGURE 5.2.7**

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**Client**  
Department for Infrastructure  
An tAire  
Infrastructure Bonnacair

**Drawing Title**  
STAGE 2 SCHEME ASSESSMENT REPORT  
AIR QUALITY  
COMMUNITY FACILITIES AND AIR QUALITY  
MANAGEMENT AREA (AQMA)

**KEY**

- Sensitive Area / Facility
- Newry (Urban Centre) AQMA
- Fathom Upper ASSI
- 200 Meter Buffer Zone

**Route Options**

- Yellow Route
- Red Route
- Blue Route Option 1
- Blue Route Options 2 & 3
- Indicative Ellisholding Junction Arrangement (coincident with all routes)
- A Class Road
- Railway
- International Border

**Scale @ A3**  
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AECOM Internal Project Number  
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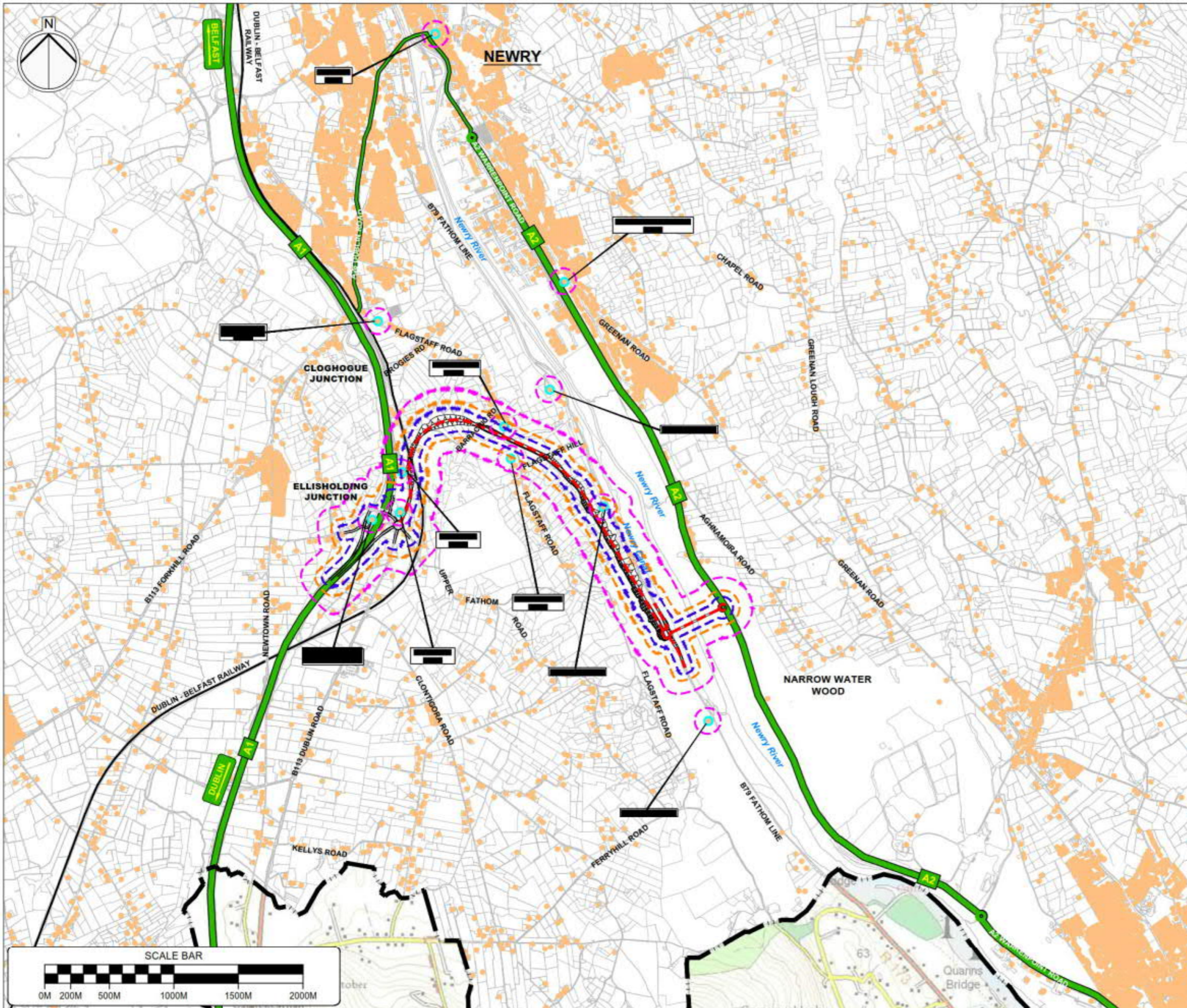
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**FIGURE 5.2.8**

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**Client**  
Department for Infrastructure  
**As Built**  
Bonnacair

**Drawing Title**  
STAGE 2 SCHEME ASSESSMENT REPORT  
AIR QUALITY  
RED ROUTE CONSTRUCTION DISRUPTION  
SENSITIVE RECEPTORS

**KEY**

- Sensitive Receptors
- Assessment Receptor
- 50 Meter Buffer Zone
- 100 Meter Buffer Zone
- 200 Meter Buffer Zone

**Route Option**

- Red Route
- Indicative Ellisholding Junction Arrangement (coincident with all routes)
- A Class Road
- Railway
- International Border

**Scale @ A3**  
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AECOM Internal Project Number  
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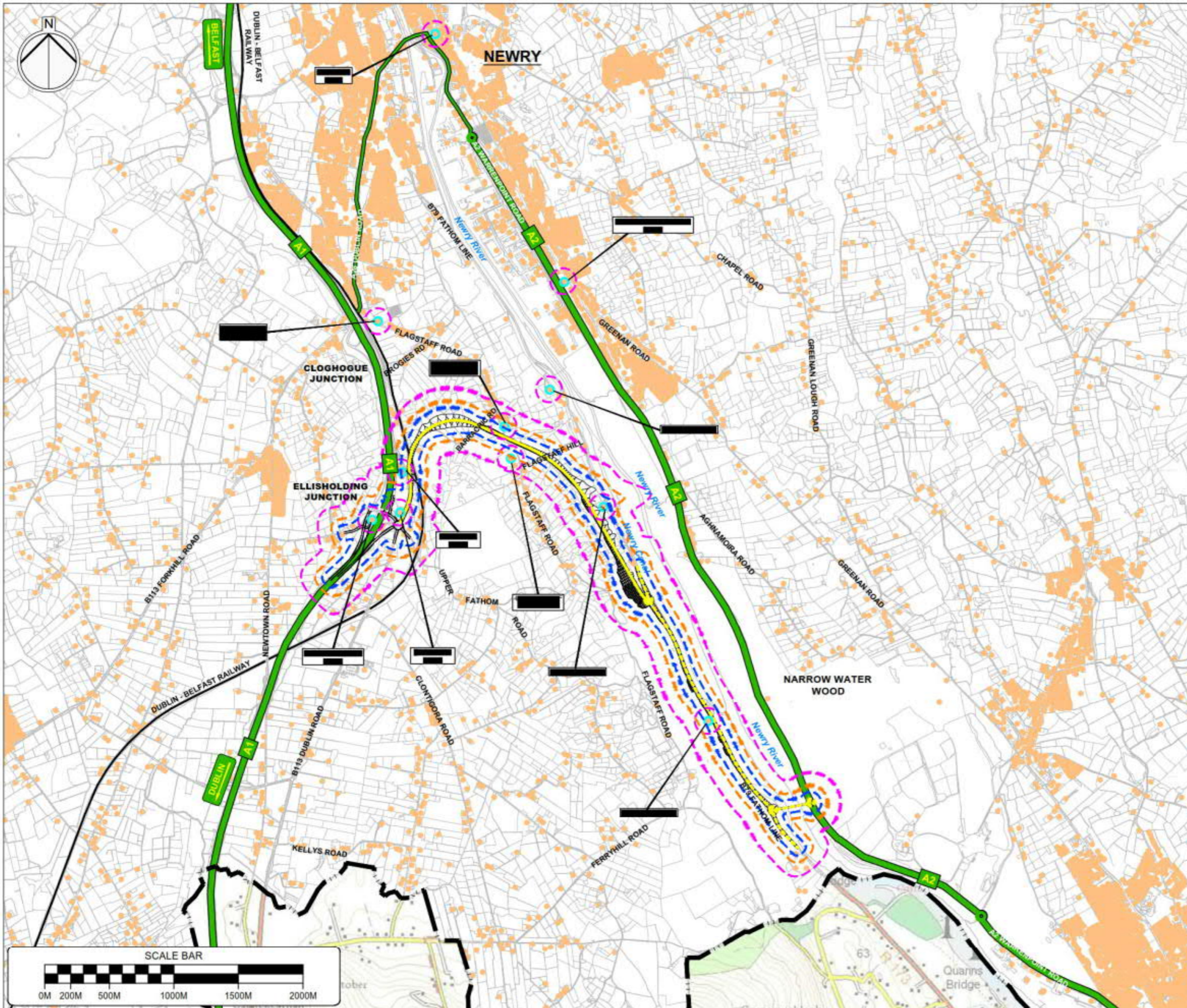
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**FIGURE 5.2.11**

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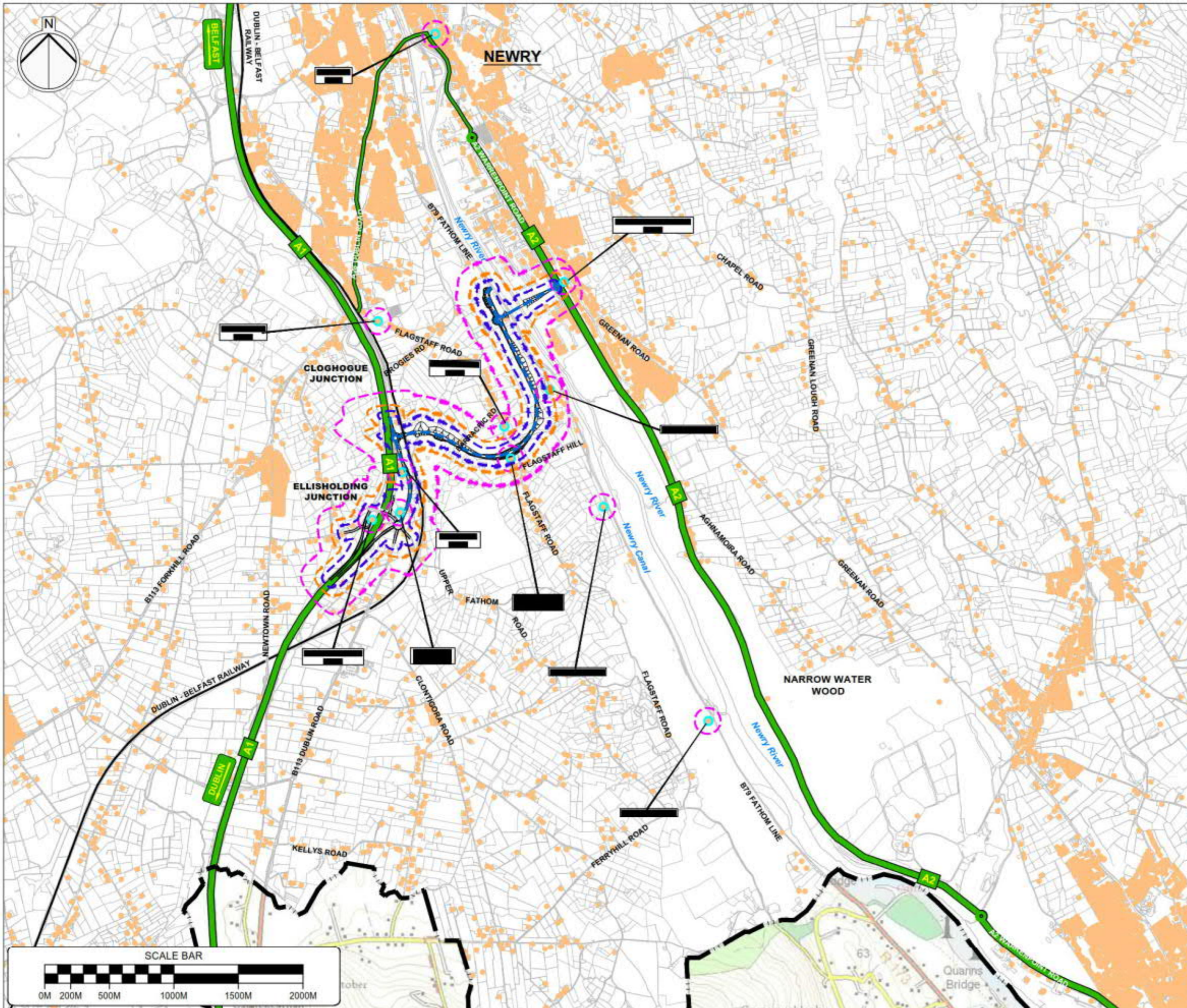
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Client			
Drawing Title		STAGE 2 SCHEME ASSESSMENT REPORT AIR QUALITY YELLOW ROUTE CONSTRUCTION DISRUPTION SENSITIVE RECEPTORS	
<b>KEY</b>			
	Sensitive Receptors		
	Assessment Receptor		
	50 Meter Buffer Zone		
	100 Meter Buffer Zone		
	200 Meter Buffer Zone		
<b>Route Options</b>			
	Yellow Route		
	Indicative Ellisholding Junction Arrangement (coincident with all routes)		
	A Class Road		
	Railway		
	International Border		
Scale @ A3 NOT TO SCALE AECOM Internal Project Number 60472927			
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<b>FIGURE 5.2.12</b>			
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**Project Title**  
NEWRY SOUTHERN RELIEF ROAD

**Co-financed by the European Union**  
Trans-European Transport Network (TEN-T)

**Client**  
Department for Infrastructure  
**As Páirc**  
An Bord  
**Bonnacair**

**Drawing Title**  
STAGE 2 SCHEME ASSESSMENT REPORT  
AIR QUALITY  
BLUE ROUTE 1 CONSTRUCTION DISRUPTION  
SENSITIVE RECEPTORS

**KEY**

- Sensitive Receptors
- Assessment Receptor
- 50 Meter Buffer Zone
- 100 Meter Buffer Zone
- 200 Meter Buffer Zone

**Route Option**

- Blue Route Option 1
- Indicative Ellisholding Junction Arrangement (coincident with all routes)
- A Class Road
- Railway
- International Border

**Scale @ A3**  
NOT TO SCALE  
AECOM Internal Project Number  
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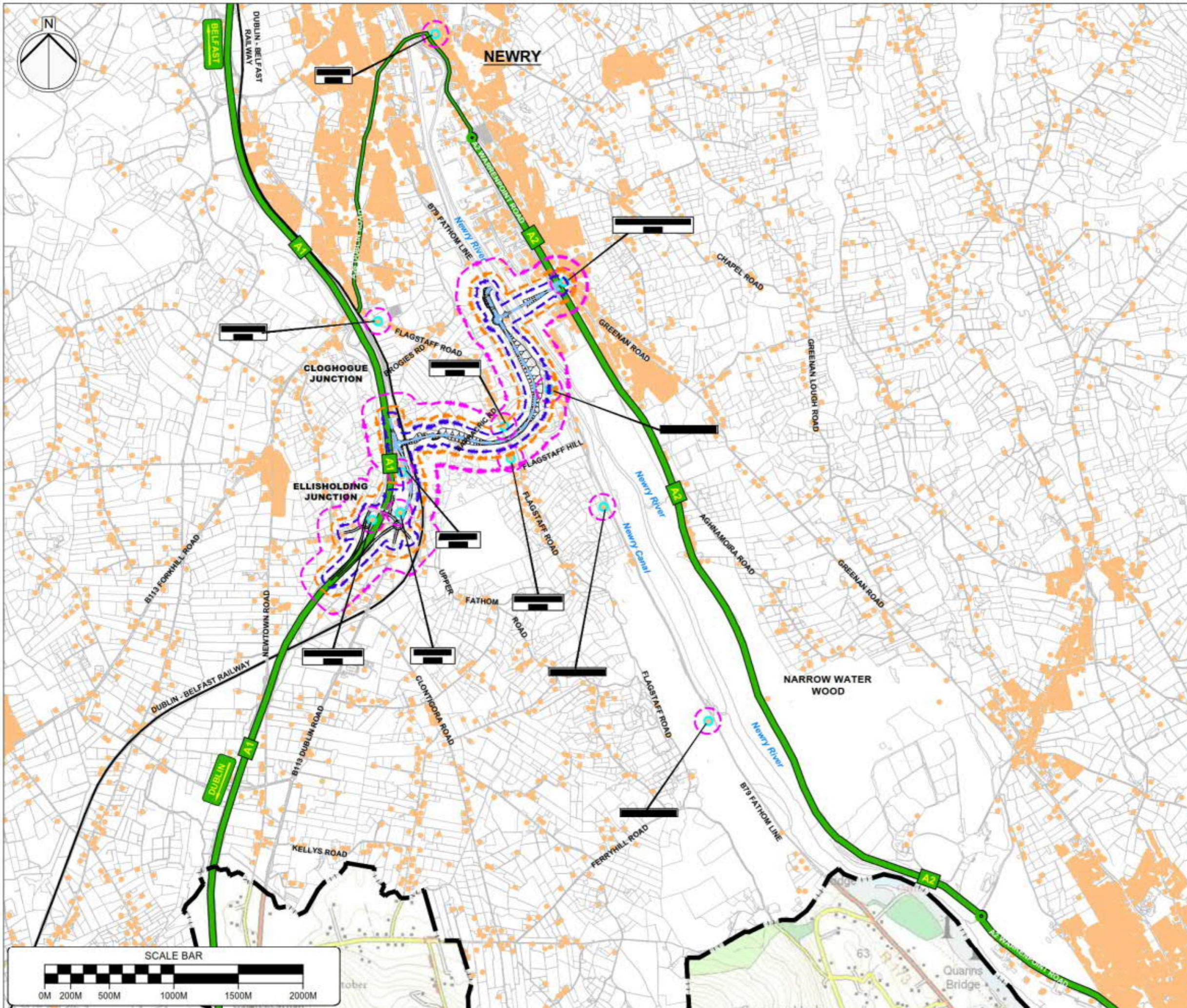
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**FIGURE 5.2.13**

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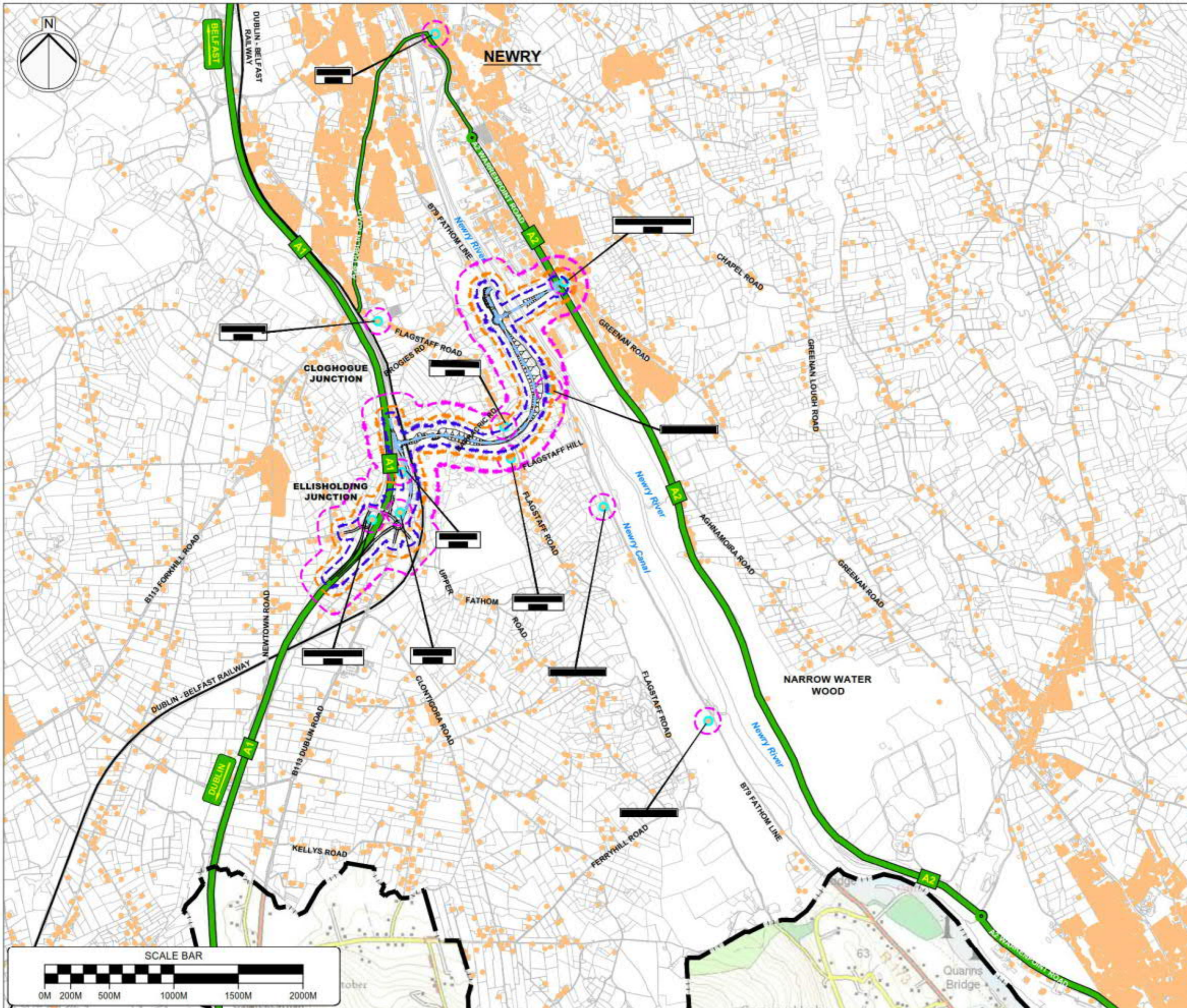
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Co-financed by the European Union Trans-European Transport Network (TEN-T)	
Client	Department for Infrastructure An tAire Bonnacair
Drawing Title	STAGE 2 SCHEME ASSESSMENT REPORT AIR QUALITY BLUE ROUTE 2 CONSTRUCTION DISRUPTION SENSITIVE RECEPTORS
KEY	<ul style="list-style-type: none"> <li> Sensitive Receptors</li> <li> Assessment Receptor</li> <li> 50 Meter Buffer Zone</li> <li> 100 Meter Buffer Zone</li> <li> 200 Meter Buffer Zone</li> </ul>
Route Option	<ul style="list-style-type: none"> <li> Blue Route Option 2</li> <li> Indicative Ellisholding Junction Arrangement (coincident with all routes)</li> <li> A Class Road</li> <li> Railway</li> <li> International Border</li> </ul>
Scale @ A3	NOT TO SCALE
AECOM Internal Project Number	60472927
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<b>FIGURE 5.2.14</b>	
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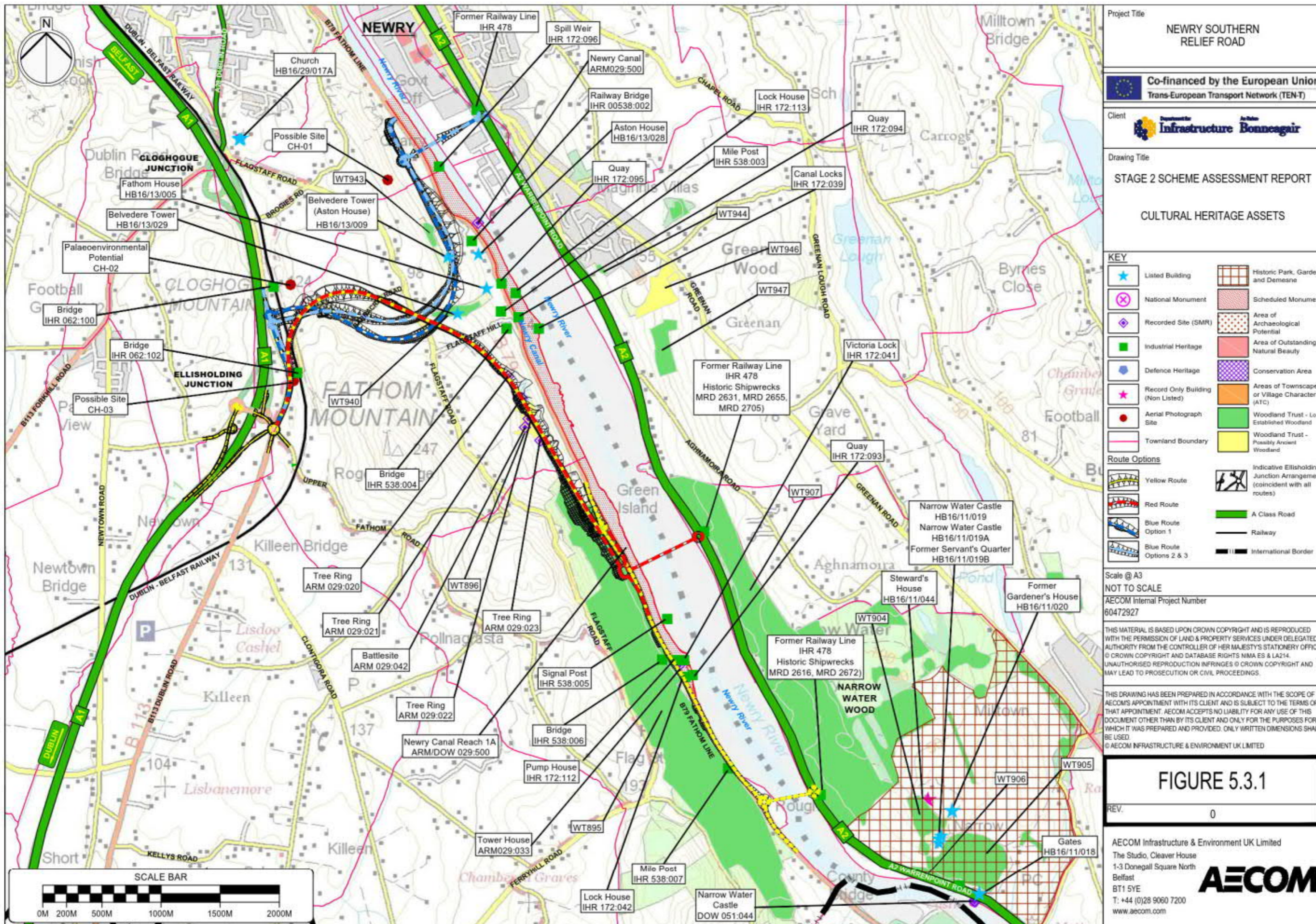


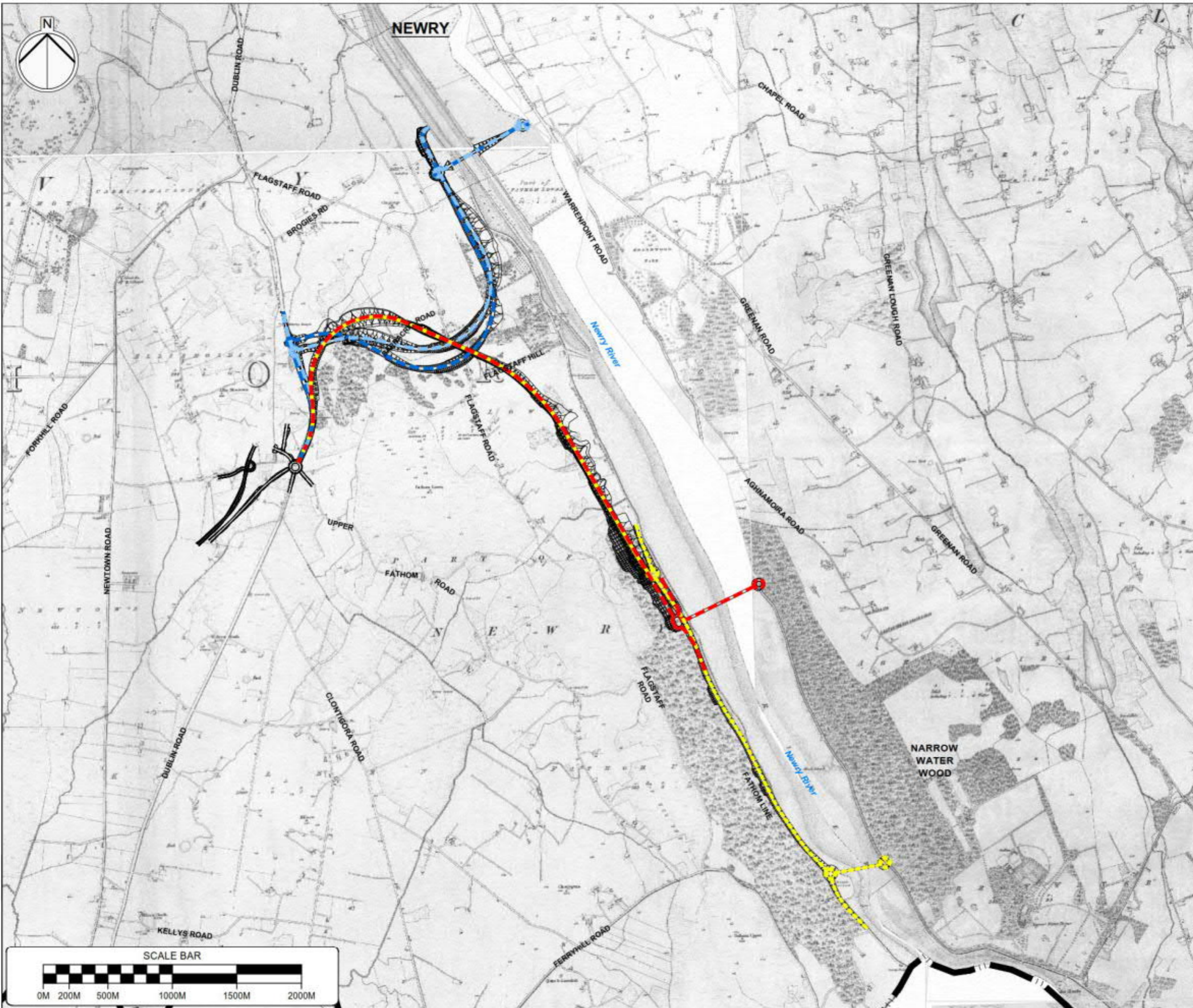




Project Title	NEWRY SOUTHERN RELIEF ROAD
Co-financed by the European Union Trans-European Transport Network (TEN-T)	
Client	Department for Infrastructure An tAire Bonnecair
Drawing Title	STAGE 2 SCHEME ASSESSMENT REPORT AIR QUALITY BLUE ROUTE 3 CONSTRUCTION DISRUPTION SENSITIVE RECEPTORS
KEY	<ul style="list-style-type: none"> <li> Sensitive Receptors</li> <li> Assessment Receptor</li> <li> 50 Meter Buffer Zone</li> <li> 100 Meter Buffer Zone</li> <li> 200 Meter Buffer Zone</li> </ul>
Route Option	<ul style="list-style-type: none"> <li> Blue Route Option 3</li> <li> Indicative Ellisholding Junction Arrangement (coincident with all routes)</li> <li> A Class Road</li> <li> Railway</li> <li> International Border</li> </ul>
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AECOM Internal Project Number	60472927
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<b>FIGURE 5.2.15</b>	
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Co-financed by the European Union  
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Client  
Department for Infrastructure **As Páirc**  
**Infrastructure Bonnecair**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
CULTURAL HERITAGE  
HISTORIC MAPPING  
1:6 INCH COUNTY SERIES 1st EDITION**

**KEY**

Route Options

- Yellow Route
- Red Route
- Blue Route Option 1
- Blue Route Options 2 & 3
- Indicative Ellisholding Junction Arrangement (coincident with all routes)
- International Border

Scale @ A3  
**NOT TO SCALE**  
AECOM Internal Project Number  
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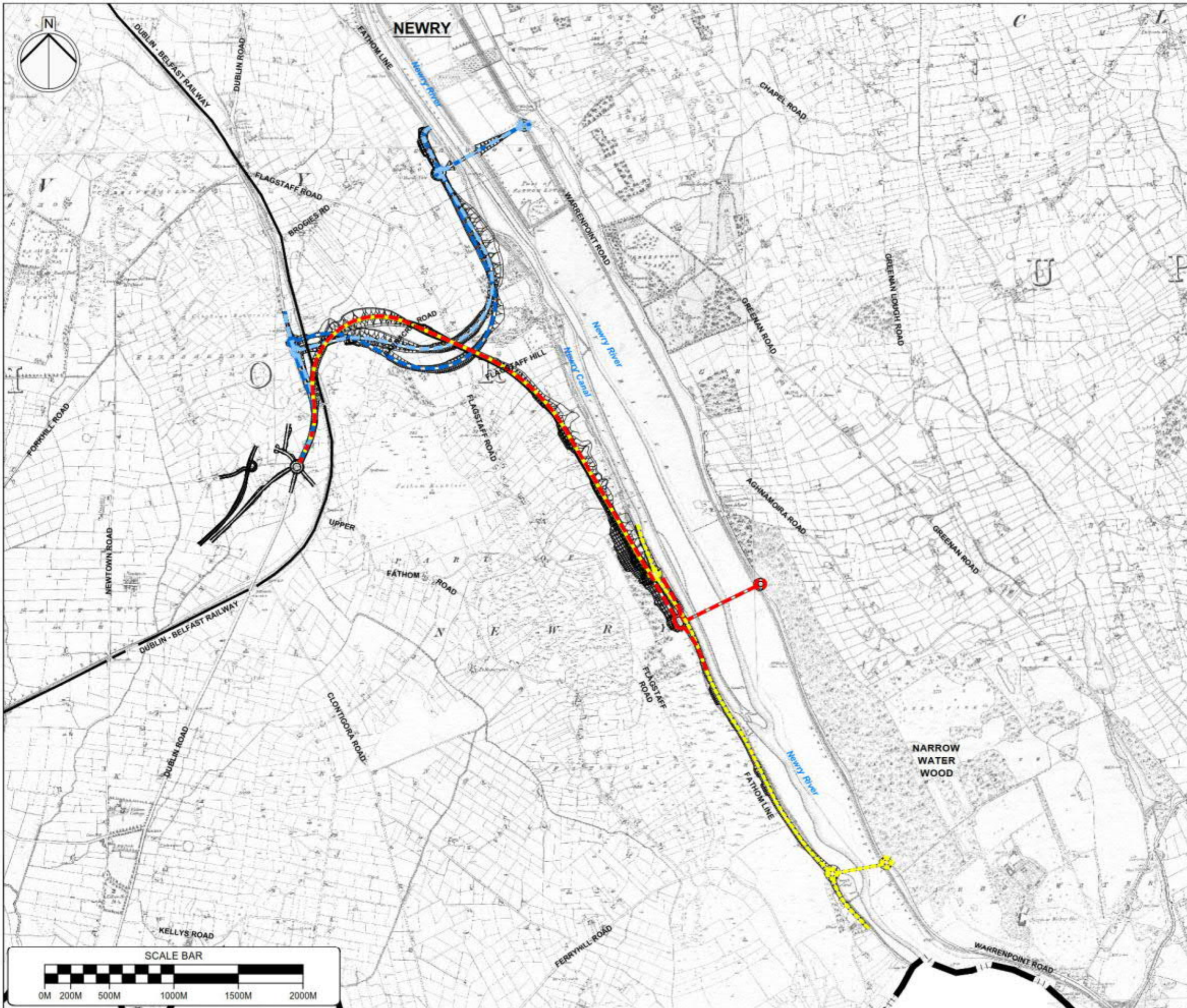
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**FIGURE 5.3.2**

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Project Title  
**NEWRY SOUTHERN RELIEF ROAD**

Co-financed by the European Union  
 Trans-European Transport Network (TEN-T)

Client  
 Department for Infrastructure  
**Infrastructure Bonnecair**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
 CULTURAL HERITAGE  
 HISTORIC MAPPING  
 1:6 INCH COUNTY SERIES 2nd EDITION**

**KEY**

Route Options

- Yellow Route
- Red Route
- Blue Route Option 1
- Blue Route Options 2 & 3
- Indicative Ellisholding Junction Arrangement (coincident with all routes)
- Railway
- International Border

Scale @ A3  
**NOT TO SCALE**  
 AECOM Internal Project Number  
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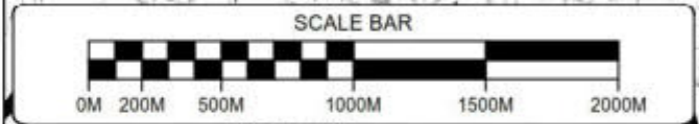
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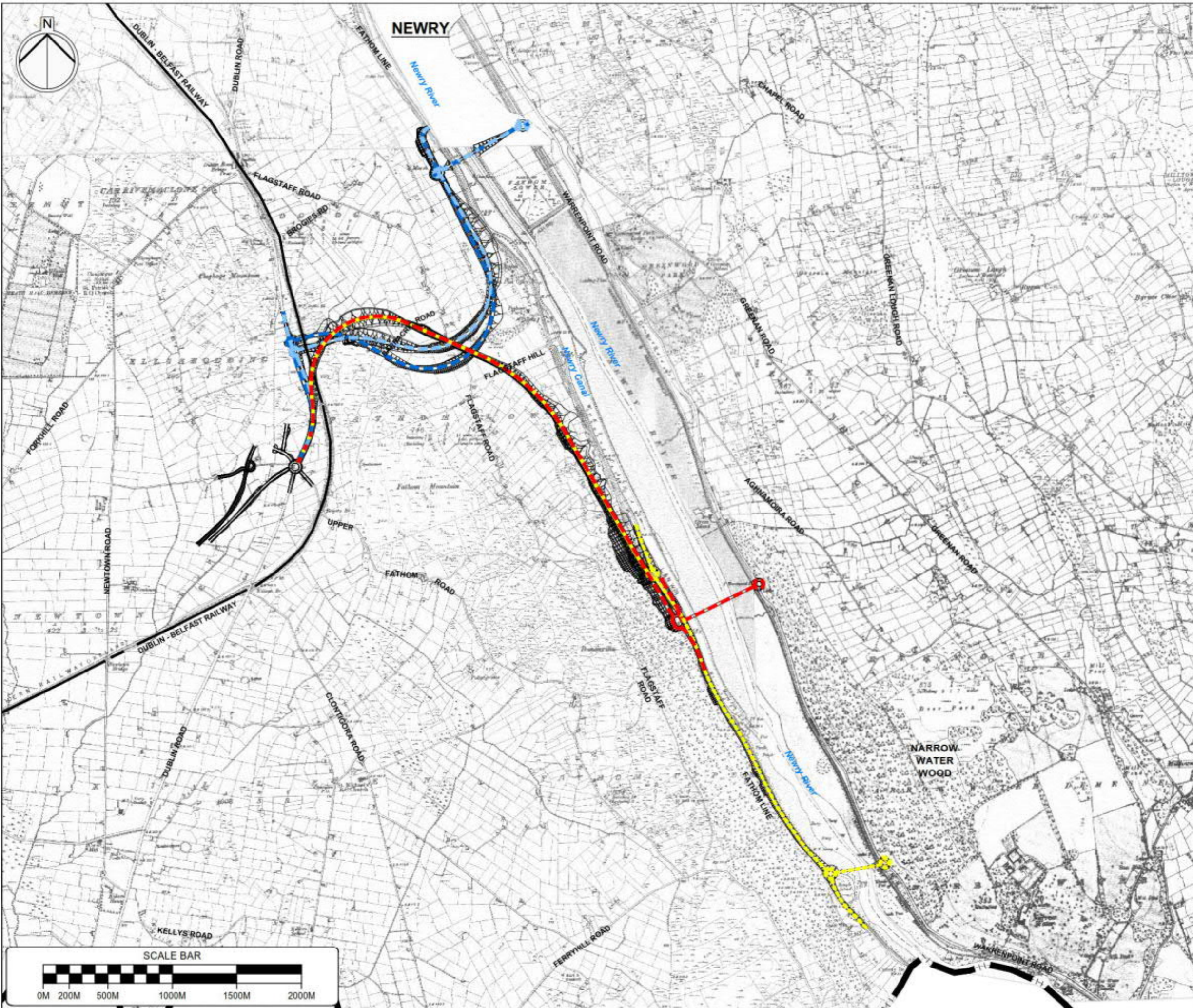
**FIGURE 5.3.3**

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Trans-European Transport Network (TEN-T)

**Client**  
Department for Infrastructure **As Built** **Bonnacair**

**Drawing Title**  
STAGE 2 SCHEME ASSESSMENT REPORT  
CULTURAL HERITAGE  
HISTORIC MAPPING  
1:6 INCH COUNTY SERIES 3rd EDITION

**KEY**

**Route Options**

- Yellow Route
- Red Route
- Blue Route Option 1
- Blue Route Options 2 & 3
- Indicative Ellisholding Junction Arrangement (coincident with all routes)
- Railway
- International Border

Scale @ A3  
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AECOM Internal Project Number  
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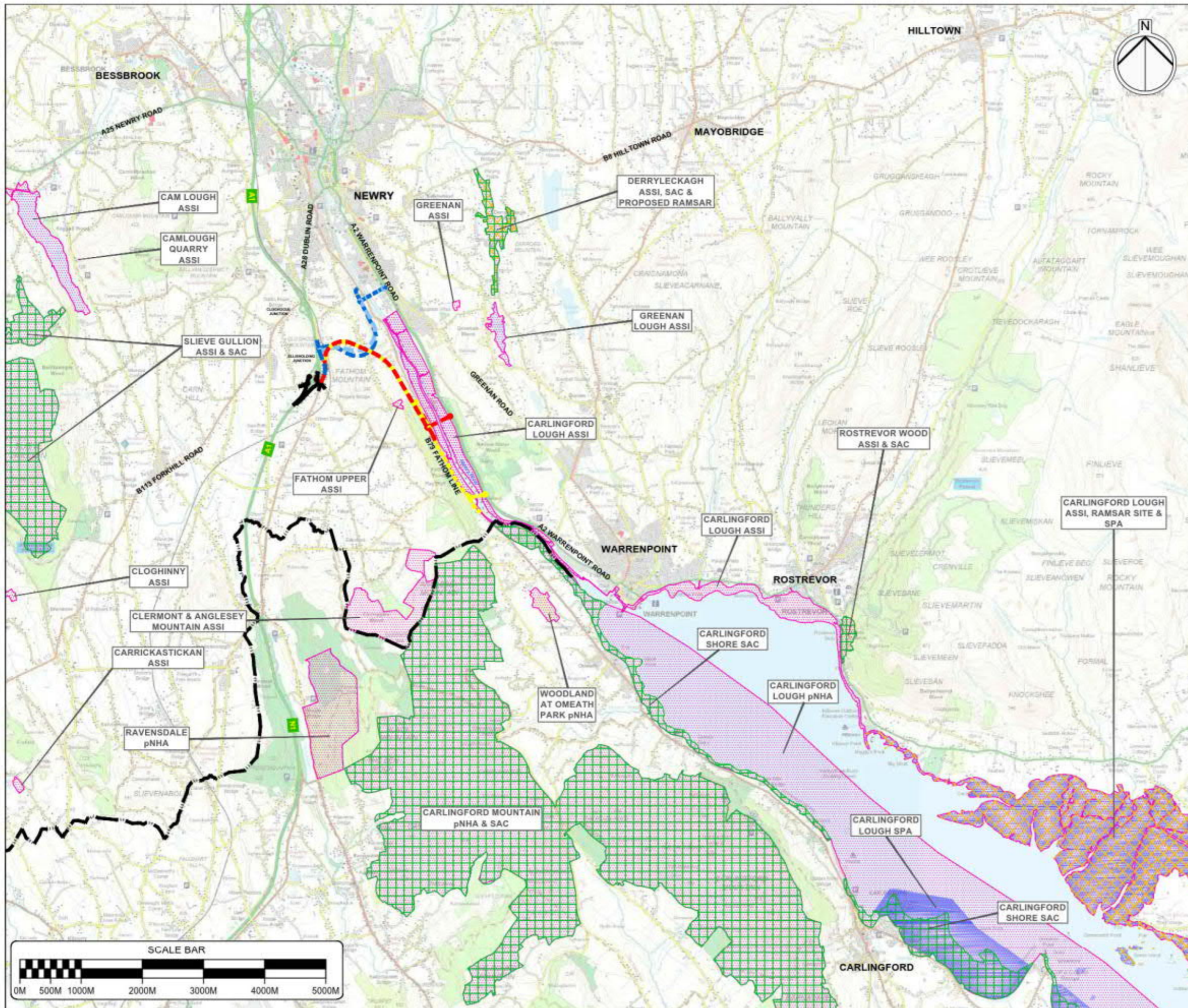
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**FIGURE 5.3.4**

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Co-financed by the European Union  
 Trans-European Transport Network (TEN-T)

Client  
 Department for Infrastructure  
**Infrastructure Bonnair**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
 ECOLOGY & NATURE CONSERVATION  
 STATUTORY DESIGNATED SITES**

**KEY**

- Yellow Route
- Red Route
- Blue Route Option 1
- Blue Route Options 2 & 3
- All Routes
- Special Protection Area (SPA)
- Special Area of Conservation (SAC)
- Ramsar Site
- Area of Special Scientific Interest (ASSI) or proposed Natural Heritage Area (pNHA)
- International Border

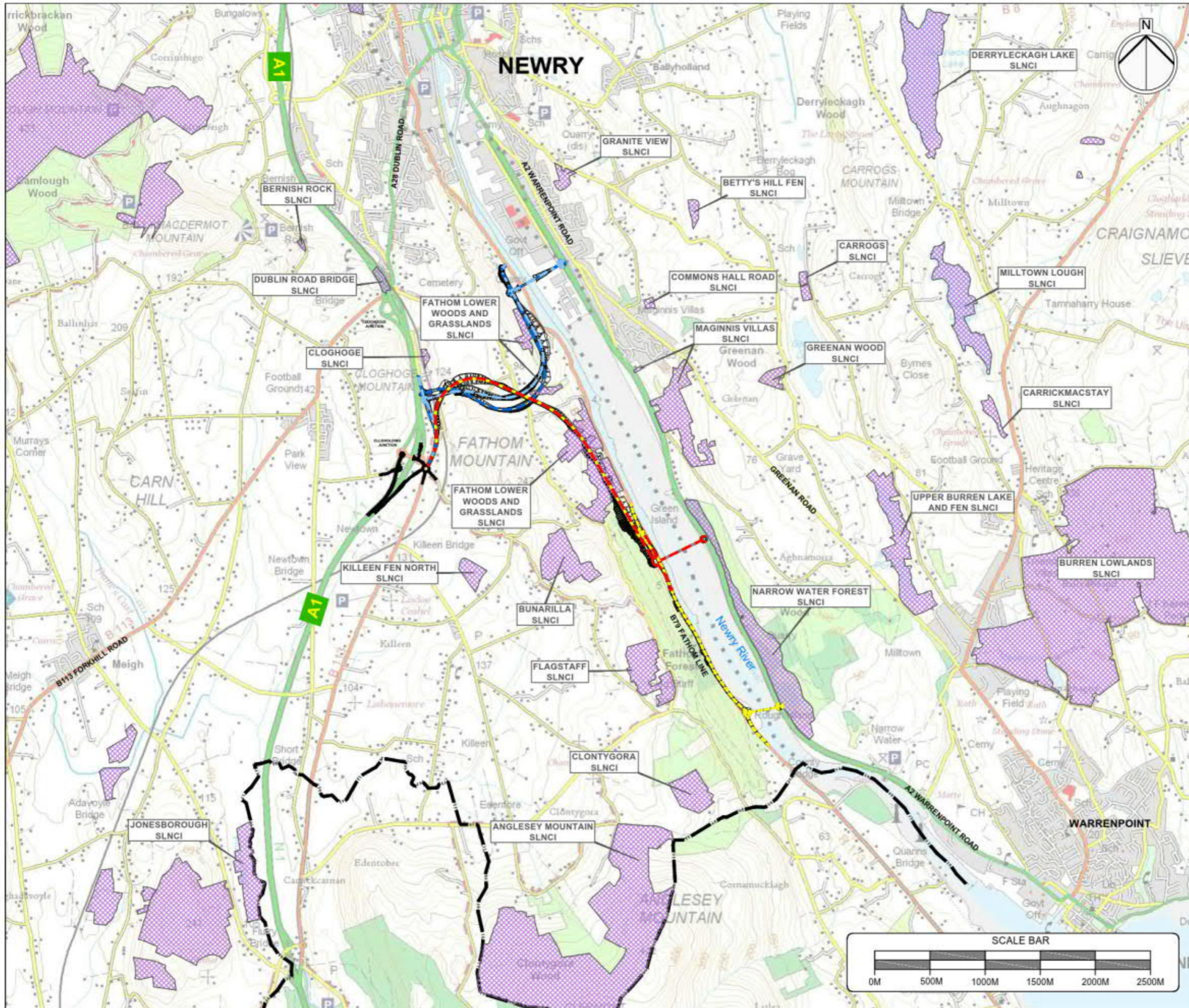
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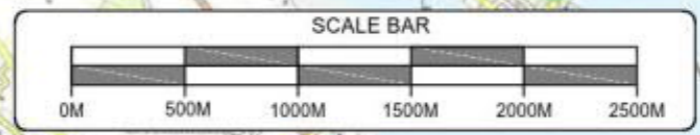
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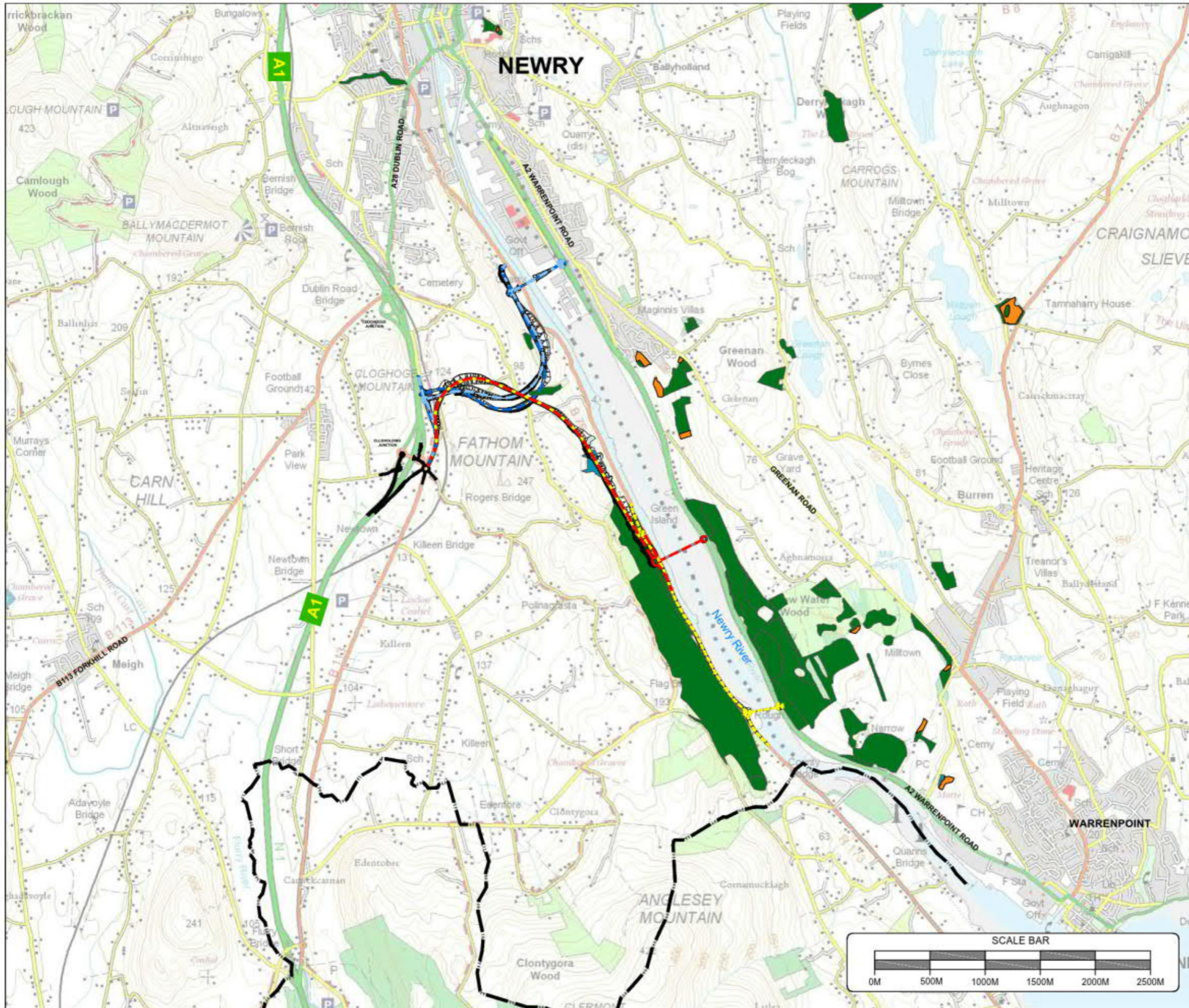
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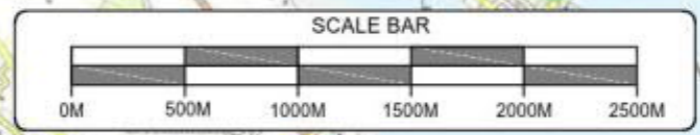


Project Title		NEWRY SOUTHERN RELIEF ROAD	
		Co-financed by the European Union Trans-European Transport Network (TEN-T)	
Client			
Drawing Title		STAGE 2 SCHEME ASSESSMENT REPORT ECOLOGY & NATURE CONSERVATION NON-STATUTORY DESIGNATED SITES SITES OF LOCAL NATURE CONSERVATION IMPORTANCE	
<b>KEY</b> Route Options Yellow Route Red Route Blue Route Option 1 Blue Route Options 2 & 3 Indicative Eilsholding Junction Arrangement (coincident with all routes) Sites of Local Nature Conservation Importance (SLNCIs) International Border			
Scale @ A3 1:30,000			
AECOM Internal Project Number 60472927			
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<b>FIGURE 5.4.2</b>		REV. 0	
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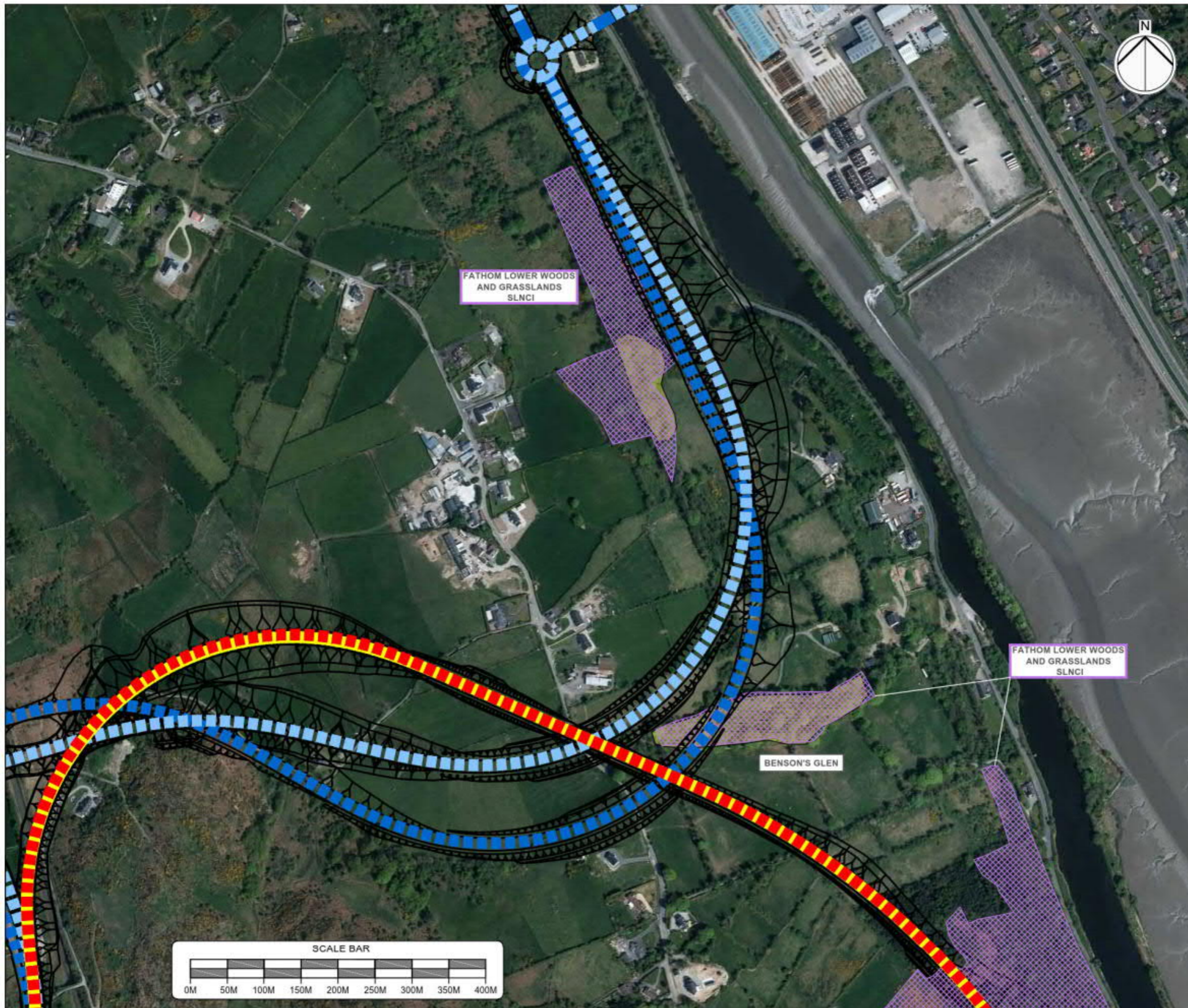




Project Title		NEWRY SOUTHERN RELIEF ROAD	
		Co-financed by the European Union Trans-European Transport Network (TEN-T)	
Client			
Drawing Title		STAGE 2 SCHEME ASSESSMENT REPORT ECOLOGY & NATURE CONSERVATION WOODLANDS	
<b>KEY</b>			
	Long-established Woodland		
	Ancient Woodland		
	Lost Woodland		
<b>Route Options</b>			
	Yellow Route		
	Red Route		
	Blue Route Option 1		
	Blue Route Options 2 & 3		
	Indicative Ellisholding Junction Arrangement (coincident with all routes)		
	International Border		
Scale @ A3 1:30,000			
AECOM Internal Project Number 60472927			
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Project Title  
**NEWRY SOUTHERN RELIEF ROAD**

Co-financed by the European Union  
 Trans-European Transport Network (TEN-T)

Client  


Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
 ECOLOGY & NATURE CONSERVATION  
 NON-STATUTORY DESIGNATED SITES  
 FATHOM LOWER & GRASSLAND SLNCI**

**KEY**

-  Site of Local Nature Conservation Importance (SLNCI)
-  Long-established Woodland

**Route Options**

-  Yellow Route
-  Red Route
-  Blue Route Option 1
-  Blue Route Options 2 & 3

Scale @ A3  
 1:5,000  
 AECOM Internal Project Number  
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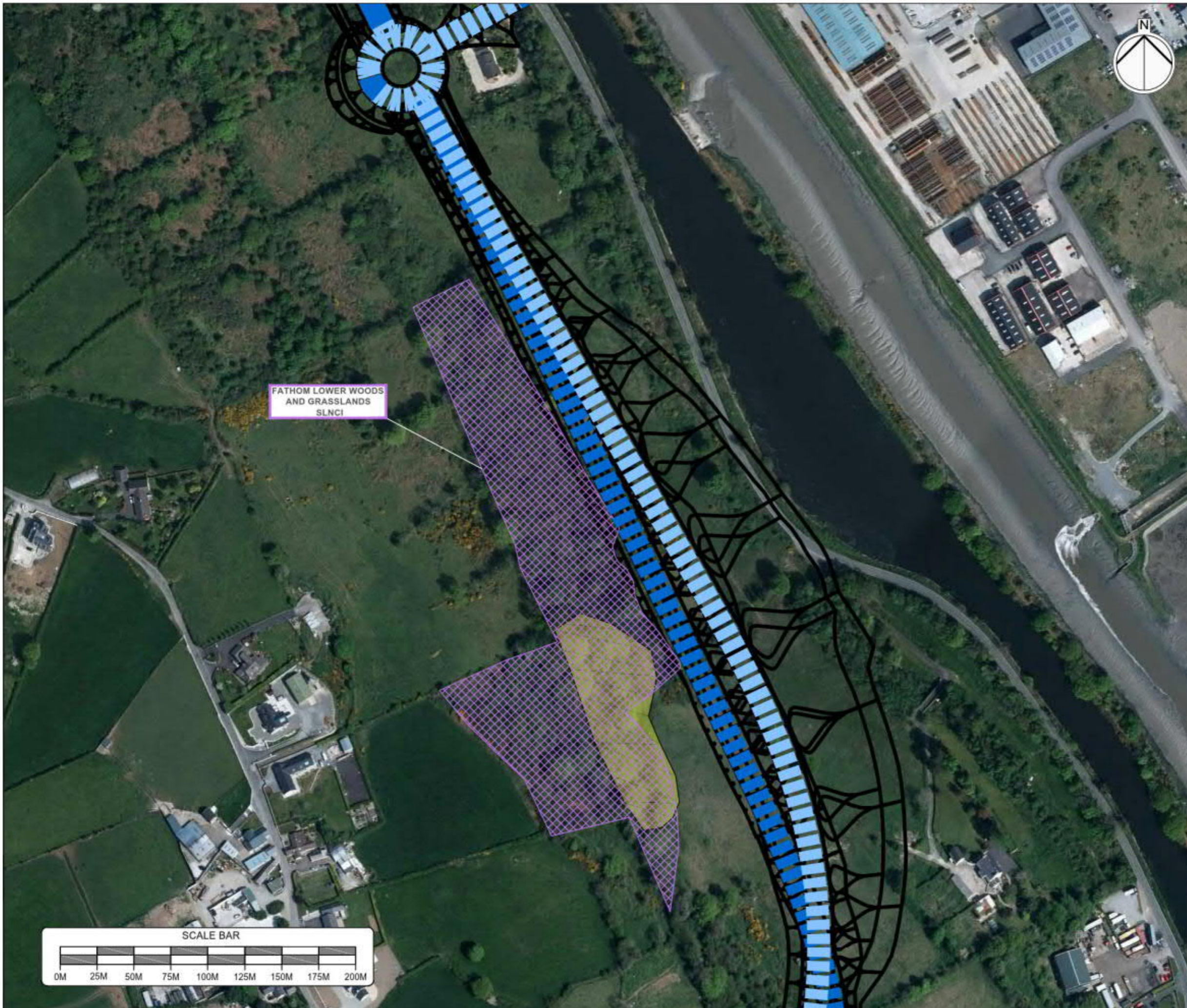
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FATHOM LOWER WOODS AND GRASSLANDS SLNCI

Project Title  
NEWRY SOUTHERN RELIEF ROAD

Co-financed by the European Union  
Trans-European Transport Network (TEN-T)

Client  
Department for Infrastructure An tAire  
Infrastructure Bonnegair

Drawing Title  
STAGE 2 SCHEME ASSESSMENT REPORT  
ECOLOGY & NATURE CONSERVATION  
NON-STATUTORY DESIGNATED SITES  
FATHOM LOWER & GRASSLAND SLNCI (NORTH)

KEY

-  Site of Local Nature Conservation Importance (SLNCI)
-  Long-established Woodland

Route Options

-  Blue Route Option 1
-  Blue Route Options 2 & 3

Scale @ A3  
1:2,500  
AECOM Internal Project Number  
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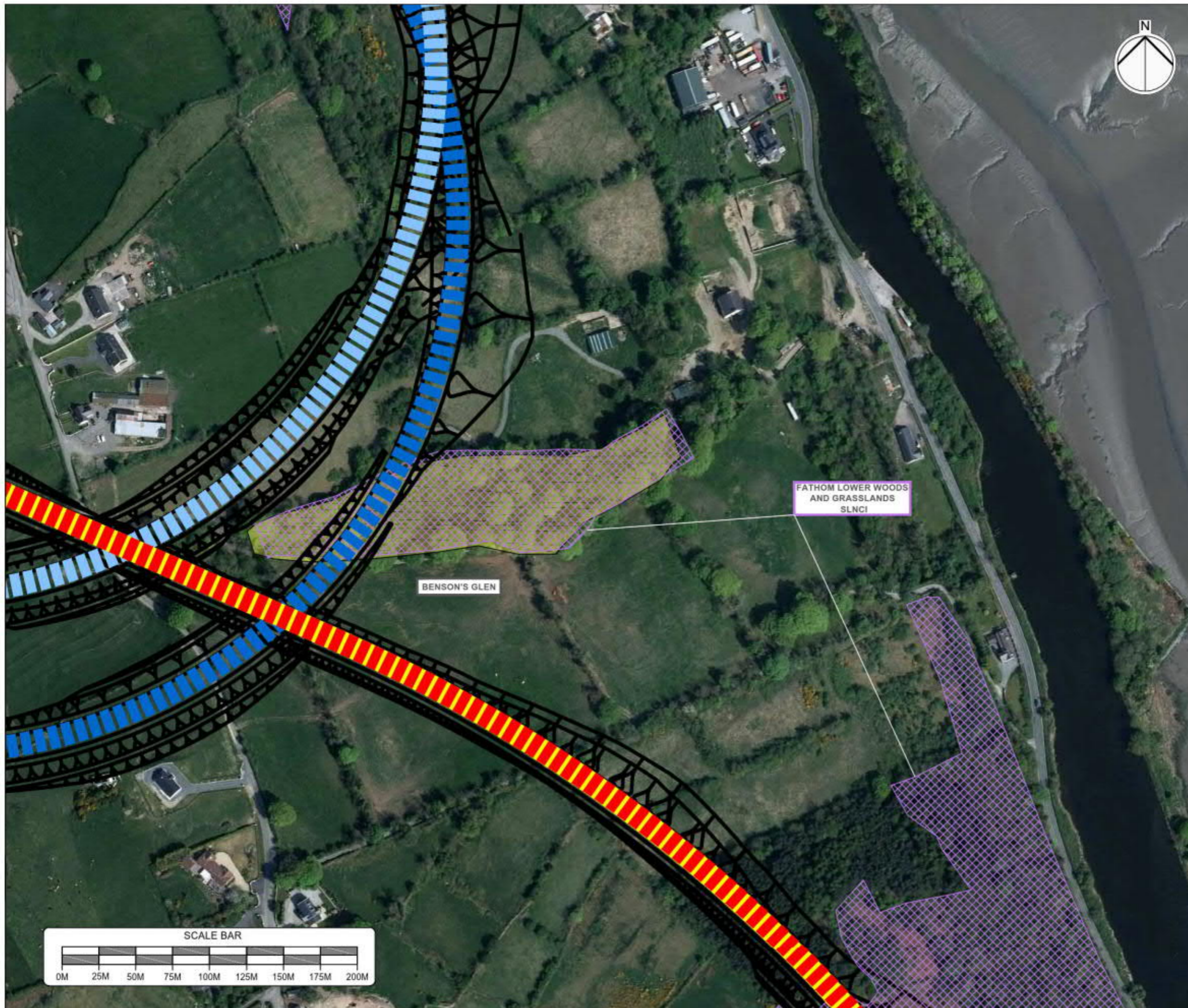
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FIGURE 5.4.5


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
Project Title  
**NEWRY SOUTHERN RELIEF ROAD**

 **Co-financed by the European Union**  
 Trans-European Transport Network (TEN-T)





Client  
 **Infrastructure**  **Bonnecair**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT**  
**ECOLOGY & NATURE CONSERVATION**  
**NON-STATUTORY DESIGNATED SITES**  
**FATHOM LOWER & GRASSLAND SLNCI (BENSON'S GLEN)**

**KEY**

-  Site of Local Nature Conservation Importance (SLNCI)
-  Long-established Woodland

**Route Options**

-  Yellow Route
-  Red Route
-  Blue Route Option 1
-  Blue Route Options 2 & 3

Scale @ A3  
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 AECOM Internal Project Number  
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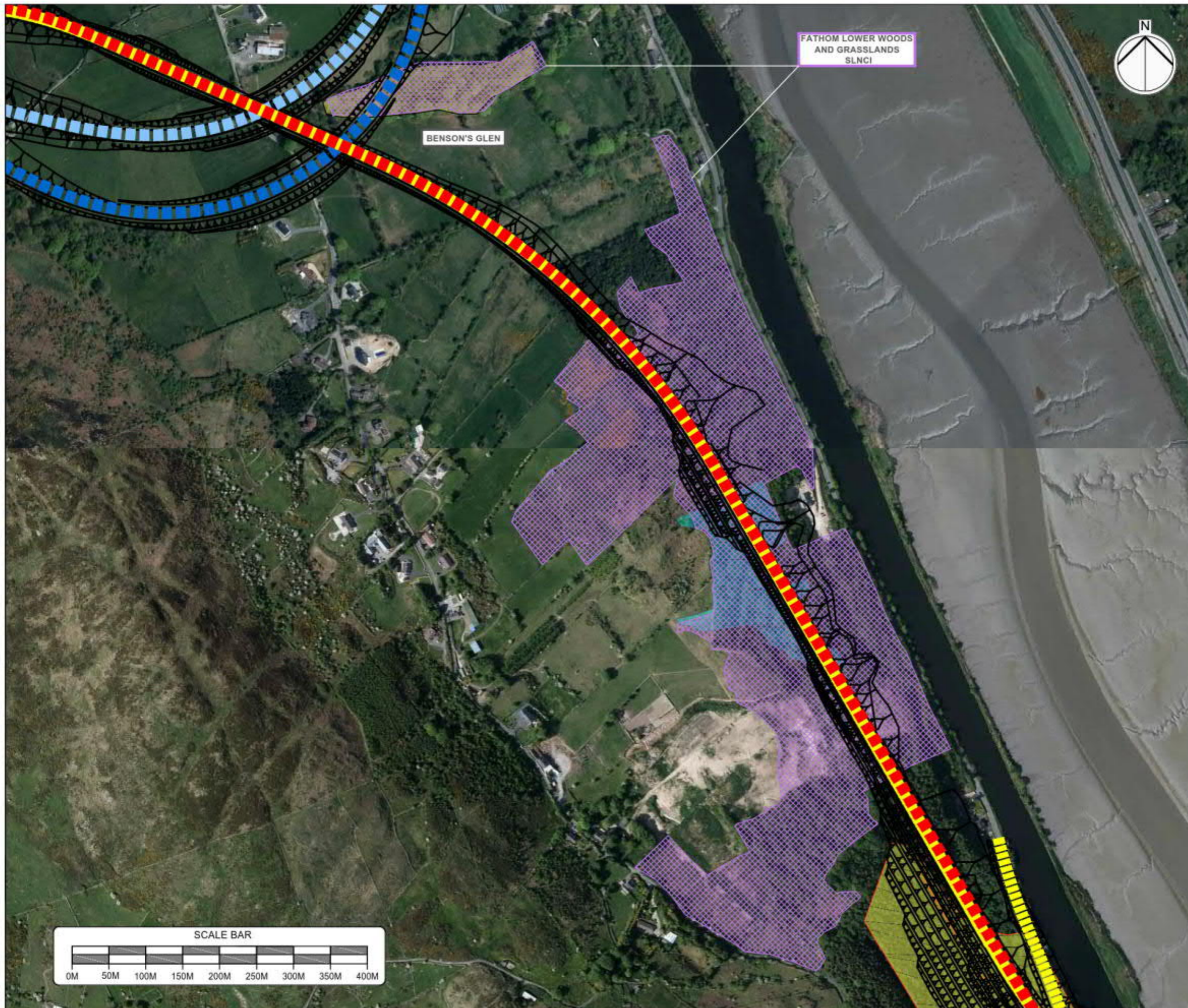
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Project Title  
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Co-financed by the European Union  
Trans-European Transport Network (TEN-T)

Client  
**Department for Infrastructure** **An tAire**  
**Infrastructure** **Bonnacair**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
ECOLOGY & NATURE CONSERVATION  
NON-STATUTORY DESIGNATED SITES  
FATHOM LOWER & GRASSLAND SLNCI (SOUTH)**

**KEY**

- Site of Local Nature Conservation Importance (SLNCI)
- Long-established Woodland
- Ancient Woodland

**Route Options**

- Yellow Route
- Red Route
- Blue Route Option 1
- Blue Route Options 2 & 3

Scale @ A3  
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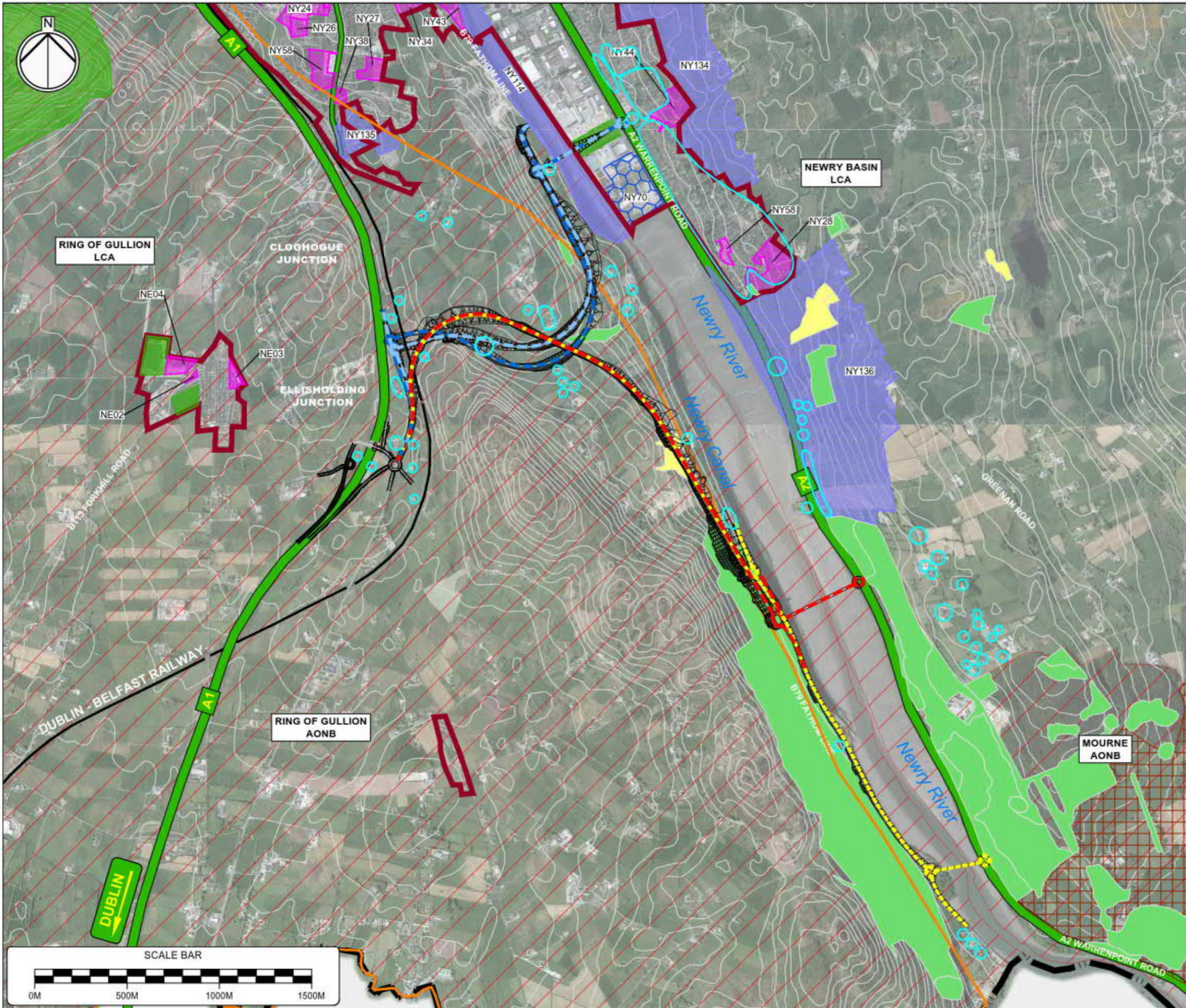
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**FIGURE 5.4.7**

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Co-financed by the European Union  
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Client  
 Department for Infrastructure  
**Infrastructure Bonnair**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
 LANDSCAPE & VISUAL EFFECTS  
 LANDSCAPE CHARACTER AND  
 DESIGNATIONS**

**KEY**

Local Landscape Policy Area (LLPA)	Long Established Woodland
Land Zoned for Housing	Ancient Woodland
Historic Park, Garden and Demesne	
Major Area of Existing Open Space	
Area of Outstanding Natural Beauty (AONB)	
Land Zoned for Economic Development	
Landscape Character Area (LCA)	
Settlement Boundary	
Areas of residential properties with potential for substantial visual impact	

**Route Options**

Yellow Route	Indicative Ellisholding Junction Arrangement (coincident with all routes)
Red Route	A Class Road
Blue Route Option 1	Railway
Blue Route Options 2 & 3	International Border

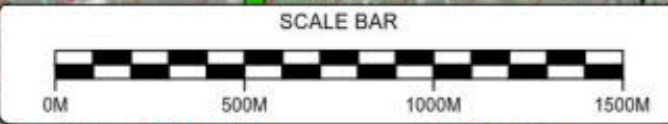
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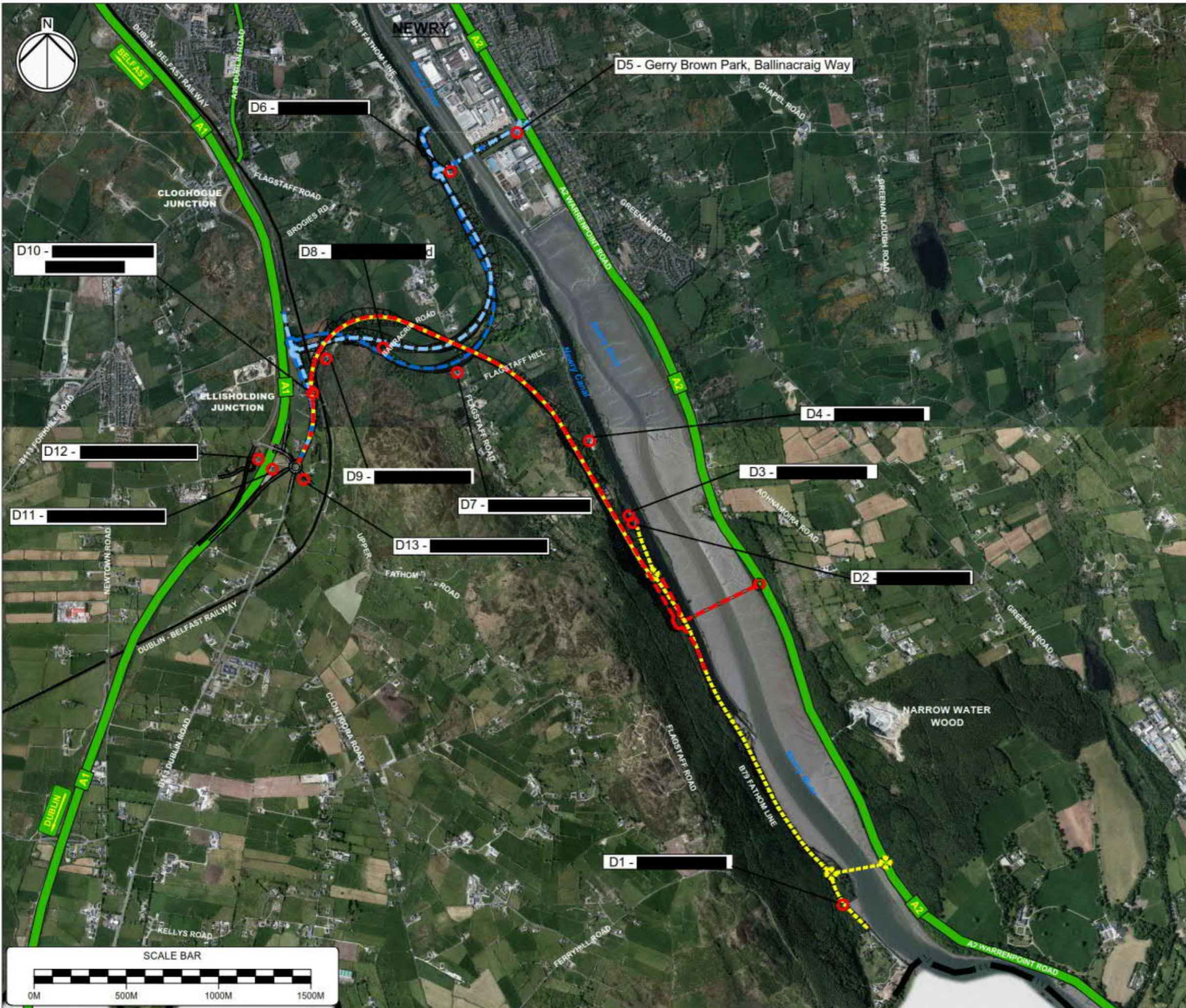
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Co-financed by the European Union  
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Client  
**Infrastructure Bonnacair**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
 LAND USE  
 PROPERTIES AT RISK OF  
 DEMOLITION AND ASSOCIATED LANDTAKE**

KEY  
 Properties at Risk of Demolition and Associated Landtake

Route Options  
 Yellow Route  
 Red Route  
 Blue Route Option 1  
 Blue Route Options 2 & 3  
 Indicative Ellisholding Junction Arrangement (coincident with all routes)  
 A Class Road  
 Railway  
 International Border

Scale @ A3  
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 AECOM Internal Project Number  
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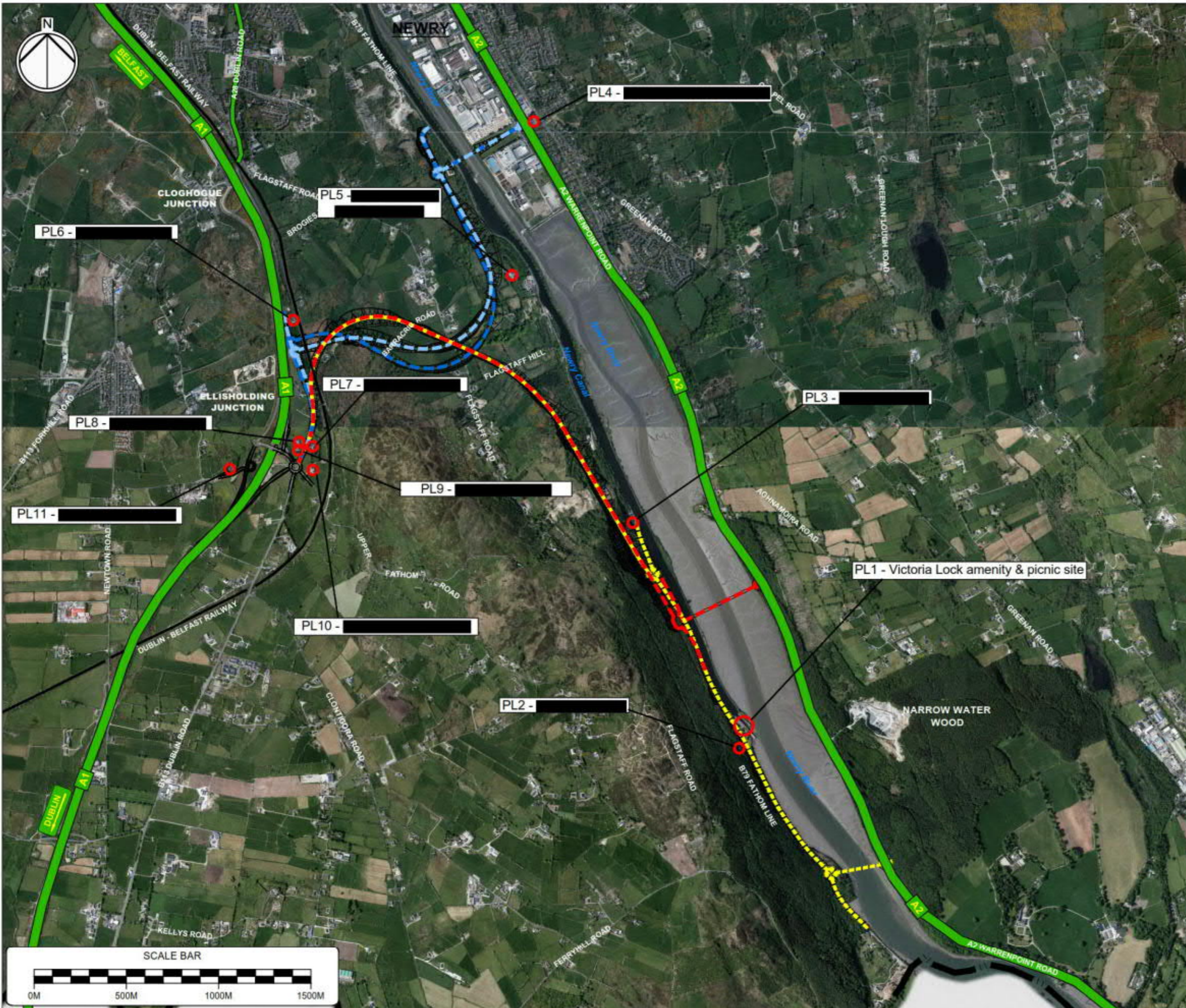
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**FIGURE 5.6.1**

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Co-financed by the European Union  
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Client  
**Infrastructure Bonnacair**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
LAND USE  
PROPERTIES AT RISK OF  
PRIVATE LAND LOSS**

**KEY**  
 Properties at Risk of Demolition and Associated Landtake

**Route Options**  
 Yellow Route  
 Red Route  
 Blue Route Option 1  
 Blue Route Options 2 & 3  
 Indicative Ellisholding Junction Arrangement (coincident with all routes)  
 A Class Road  
 Railway  
 International Border

Scale @ A3  
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AECOM Internal Project Number 60472927

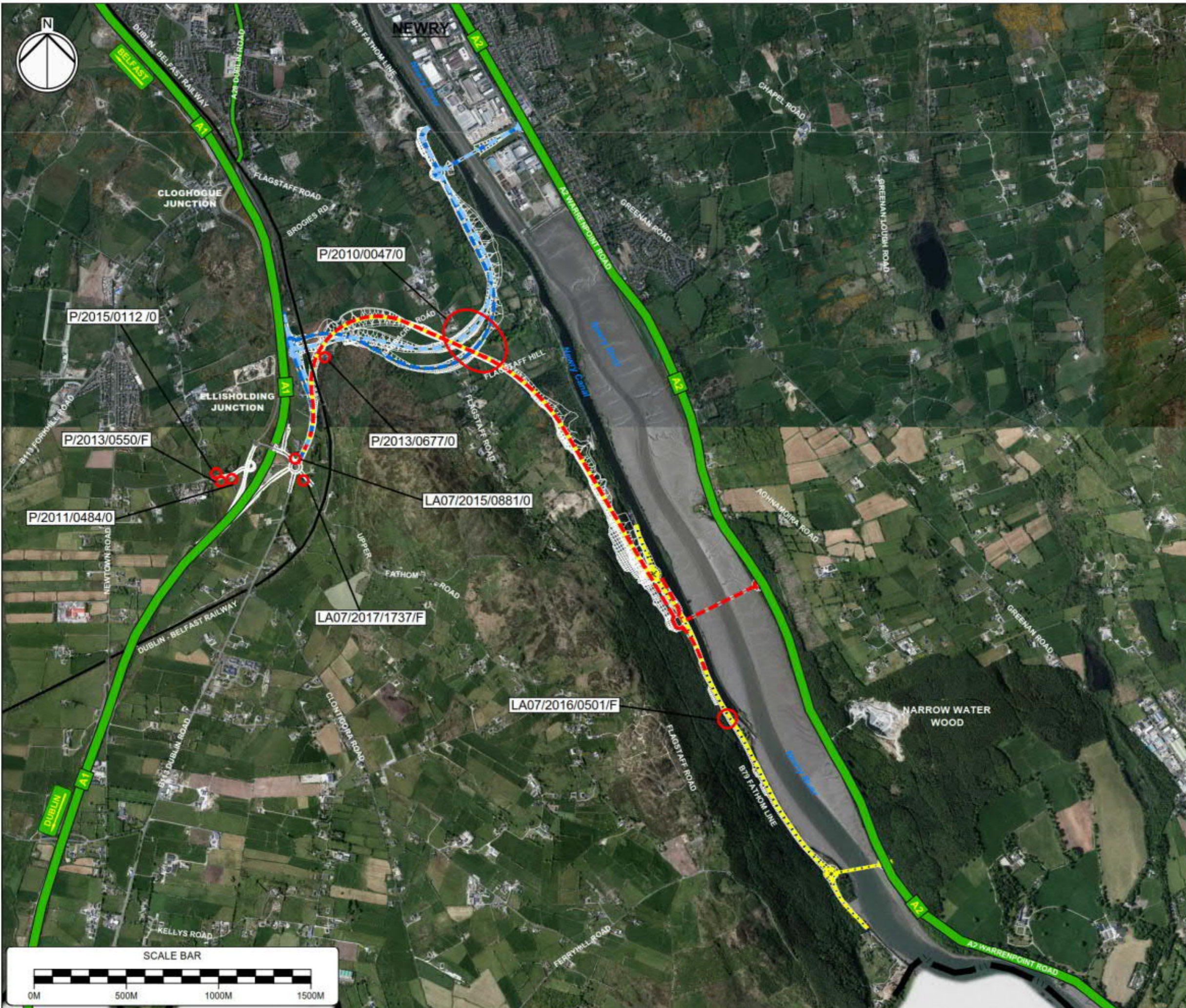
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**FIGURE 5.6.2**

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Project Title  
**NEWRY SOUTHERN RELIEF ROAD**

Co-financed by the European Union  
 Trans-European Transport Network (TEN-T)

Client  
**Infrastructure Bonnecair**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
 LAND USE  
 PLANNING APPLICATIONS  
 AT RISK OF DIRECT IMPACT**

**KEY**  
 Planning Application at Risk

Source: 'Public Access for Planning' Website May 2018

**Route Options**

	Yellow Route		Indicative Ellisholding Junction Arrangement (coincident with all routes)
	Red Route		A Class Road
	Blue Route Option 1		Railway
	Blue Route Options 2 & 3		International Border

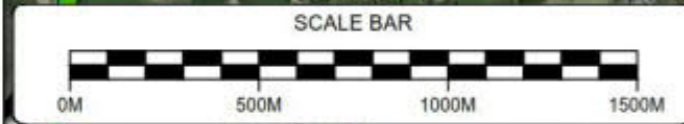
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**PLANNING APPLICATIONS**

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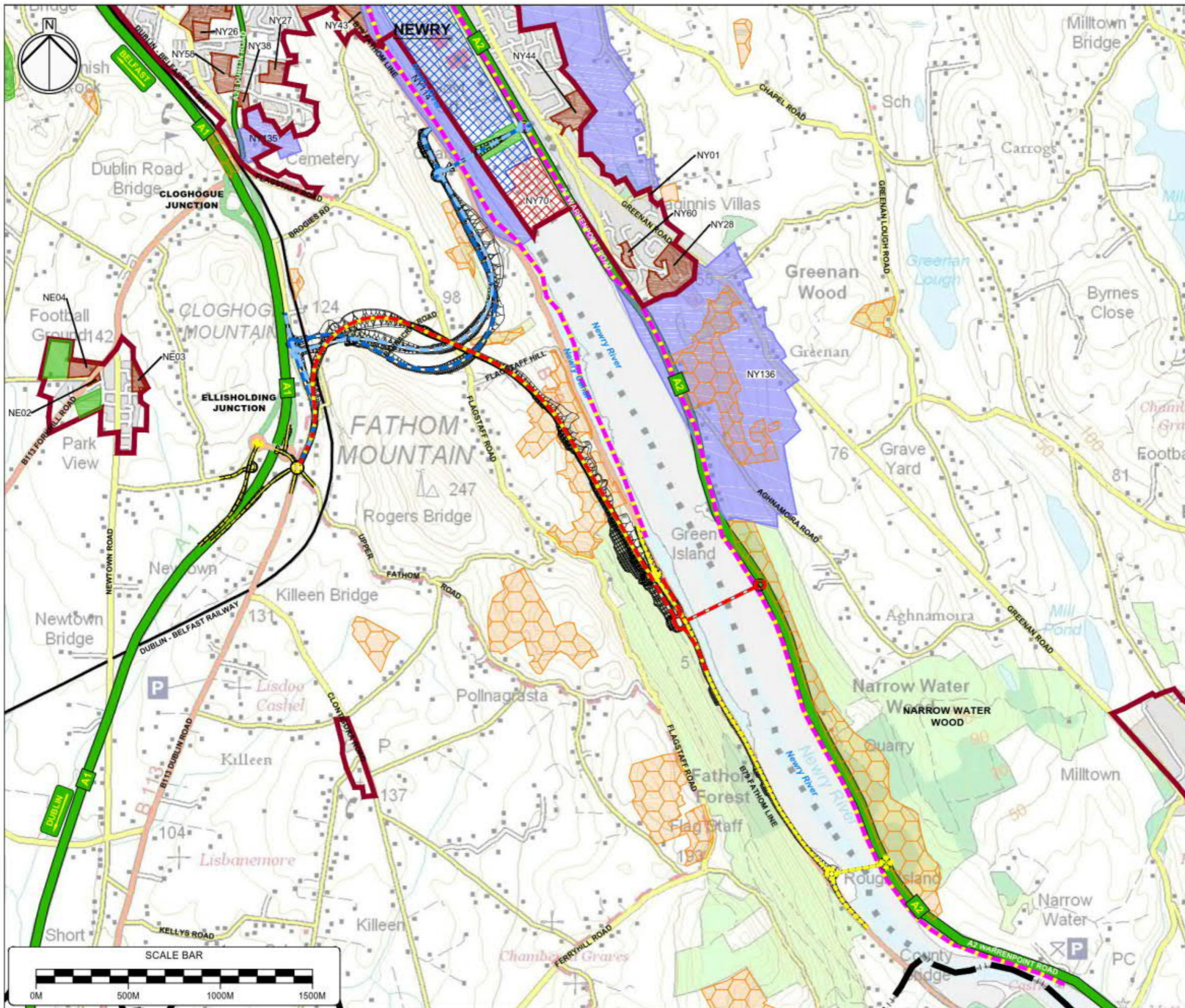
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**FIGURE 5.6.3**  
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Trans-European Transport Network (TEN-T)

**Client**  
Department for Infrastructure  
**As Built**  
Infrastructure **Bonnegair**

**Drawing Title**  
STAGE 2 SCHEME ASSESSMENT REPORT  
LAND USE  
AREA PLAN

**KEY**

Conservation Area	Development Opportunity Site
Land Zoned for Housing	Site of Local Nature Conservation Importance (SLNCI)
Area of Townscape Character	Settlement Development Limit
Major Area of Existing Open Space	Disused Transport Route
Existing Area of Economic Development	
Land Zoned for Economic Development	
Local Landscape Policy Area (LLPA)	

Source: Banbridge Newry and Mourne Area Plan 2015

**Route Options**

Yellow Route	Indicative Ellisholding Junction Arrangement (coincident with all routes)
Red Route	A Class Road
Blue Route Option 1	Railway
Blue Route Options 2 & 3	International Border

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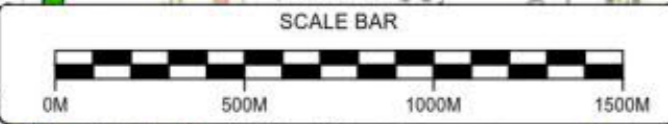
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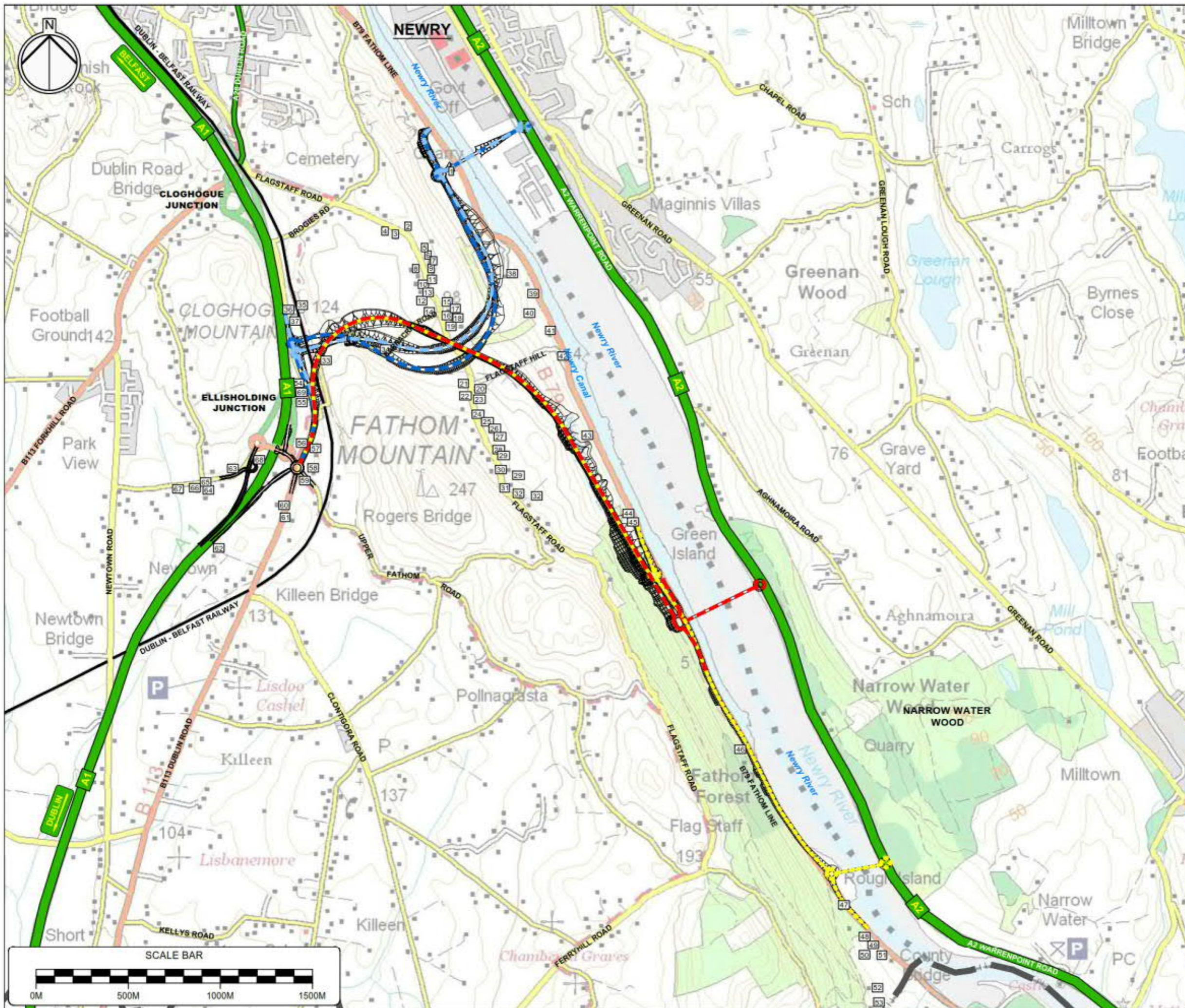
**FIGURE 5.6.4**

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**Infrastructure Bonnair**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
 NOISE & VIBRATION**

**SENSITIVE RECEPTOR**

**KEY**

11 Receptor Number

**Route Options**

- Yellow Route
- Red Route
- Blue Route Option 1
- Blue Route Options 2 & 3
- Indicative Ellisholding Junction Arrangement (coincident with all routes)
- A Class Road
- Railway
- International Border

Scale @ A3  
 1:20,000

AECOM Internal Project Number  
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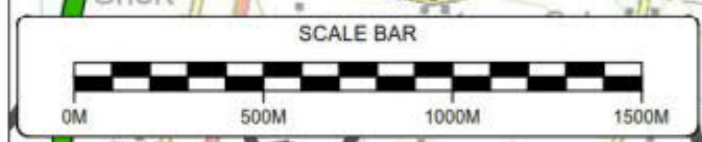
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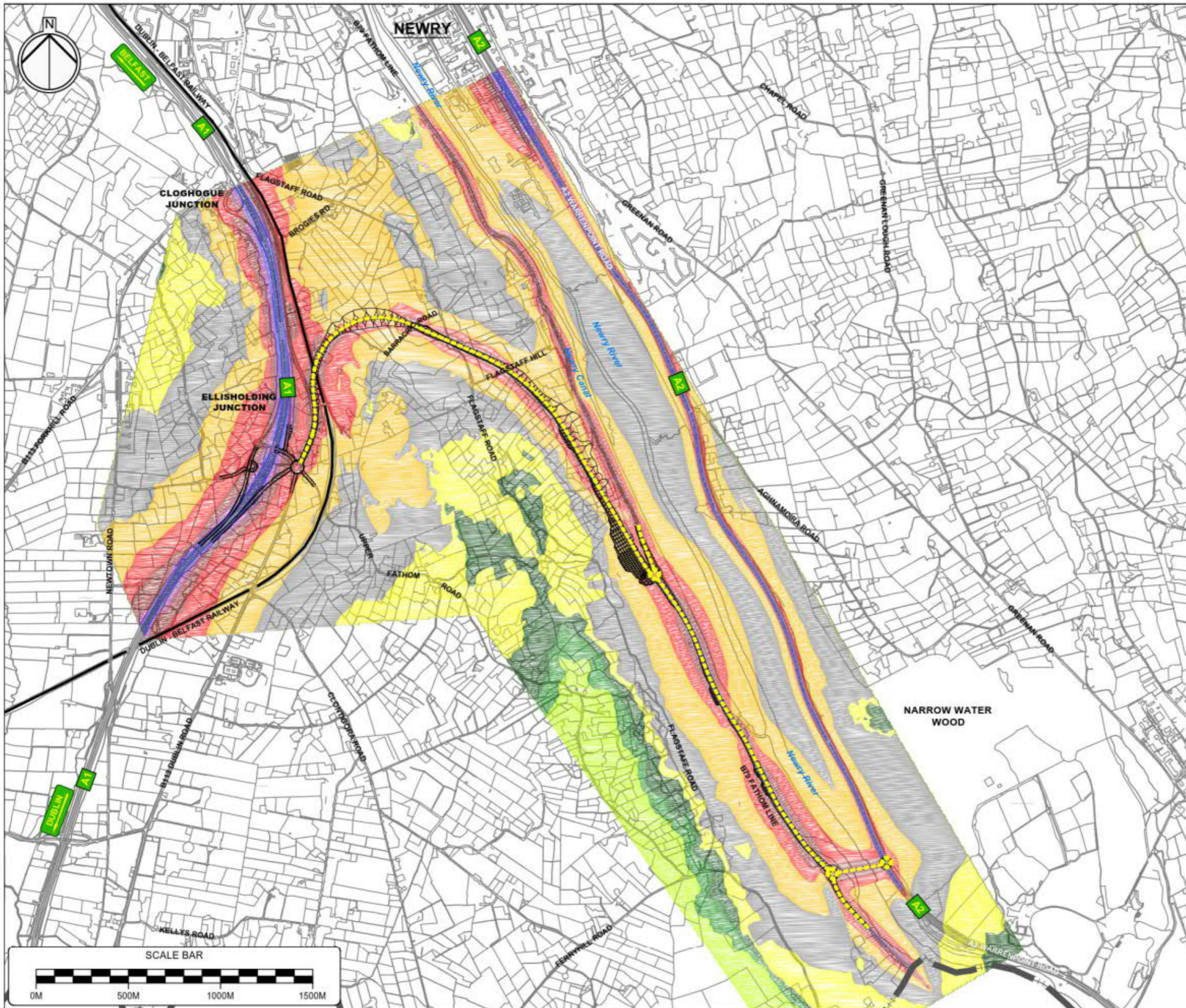
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**FIGURE 5.7.1**

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 Trans-European Transport Network (TEN-T)

Client  
 Department for Infrastructure  
**Infrastructure Bonnair**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
 NOISE & VIBRATION  
 NOISE MODELING  
 YELLOW ROUTE**

**KEY**

	> 39.0 dB		> 60.0 dB
	> 35.0 dB		> 65.0 dB
	> 40.0 dB		> 70.0 dB
	> 45.0 dB		> 75.0 dB
	> 50.0 dB		> 80.0 dB
	> 55.0 dB		> 85.0 dB

- Route Option**
- Yellow Route
  - Indicative Ellisholding Junction Arrangement (coincident with all routes)
  - Railway
  - International Border

Scale @ A3  
 1:20,000  
 AECOM Internal Project Number  
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Client  
 Department for Infrastructure  
**Infrastructure Bonnégair**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
 NOISE & VIBRATION  
 NOISE MODELING  
 RED ROUTE**

**KEY**

	> 35.0 dB		> 60.0 dB
	> 40.0 dB		> 65.0 dB
	> 45.0 dB		> 70.0 dB
	> 50.0 dB		> 75.0 dB
	> 55.0 dB		> 80.0 dB
			> 85.0 dB

- Route Options**
- Red Route
  - Indicative Ellisholding Junction Arrangement (coincident with all routes)
  - Railway
  - International Border

Scale @ A3  
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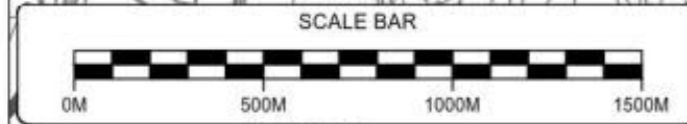
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**FIGURE 5.7.3**

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Client  
 Department for Infrastructure  
 An tAire  
**Infrastructure Bonnégair**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
 NOISE & VIBRATION  
 NOISE MODELING  
 BLUE ROUTE OPTION 1**

**KEY**

	> 35.0 dB		> 60.0 dB
	> 40.0 dB		> 65.0 dB
	> 45.0 dB		> 70.0 dB
	> 50.0 dB		> 75.0 dB
	> 55.0 dB		> 80.0 dB
			> 85.0 dB

- Route Options**
- Blue Route Option 1
  - Indicative Ellisholding Junction Arrangement (coincident with all routes)
  - Railway
  - International Border

Scale @ A3  
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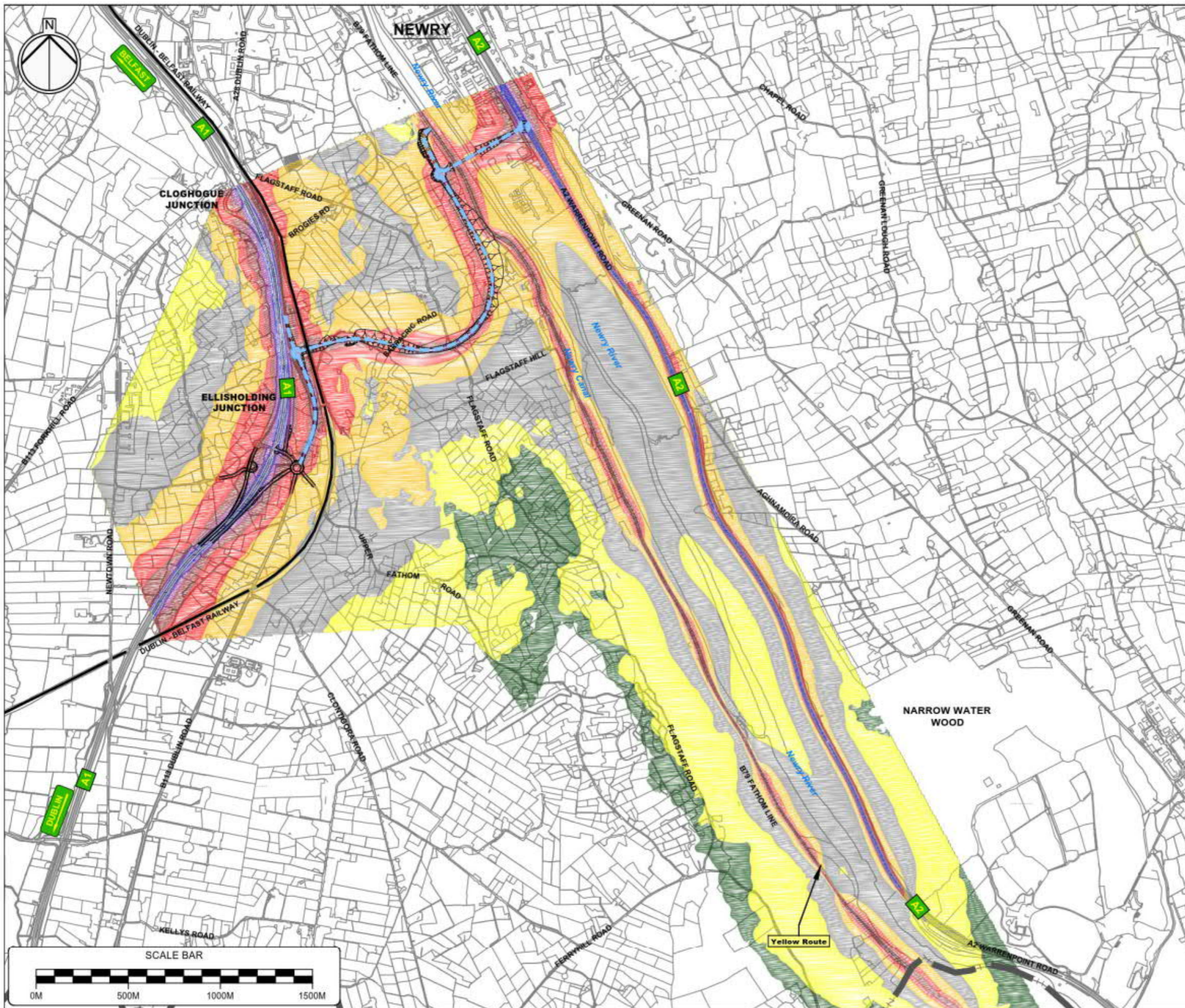
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**FIGURE 5.7.4**

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Client  
 Department for Infrastructure  
**Infrastructure Bonnégair**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
 NOISE & VIBRATION  
 NOISE MODELING  
 BLUE ROUTE OPTION 2**

**KEY**

	> 39.0 dB		> 60.0 dB
	> 35.0 dB		> 65.0 dB
	> 40.0 dB		> 70.0 dB
	> 45.0 dB		> 75.0 dB
	> 50.0 dB		> 80.0 dB
	> 55.0 dB		> 85.0 dB

- Route Options**
- Blue Route Option 2
  - Indicative Elisholding Junction Arrangement (coincident with all routes)
  - Railway
  - International Border

Scale @ A3  
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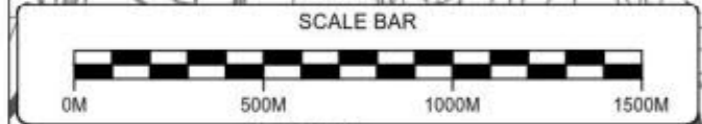
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**FIGURE 5.7.5**

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Client  
 Department for Infrastructure  
**Infrastructure Bonnemaier**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
 NOISE & VIBRATION  
 NOISE MODELING  
 BLUE ROUTE OPTION 3**

**KEY**

	> 39.0 dB		> 60.0 dB
	> 35.0 dB		> 65.0 dB
	> 40.0 dB		> 70.0 dB
	> 45.0 dB		> 75.0 dB
	> 50.0 dB		> 80.0 dB
	> 55.0 dB		> 85.0 dB

**Route Option**

Blue Route Option 3

Indicative Ellisholding Junction Arrangement (coincident with all routes)

Railway

International Border

Scale @ A3  
 1:20,000

AECOM Internal Project Number  
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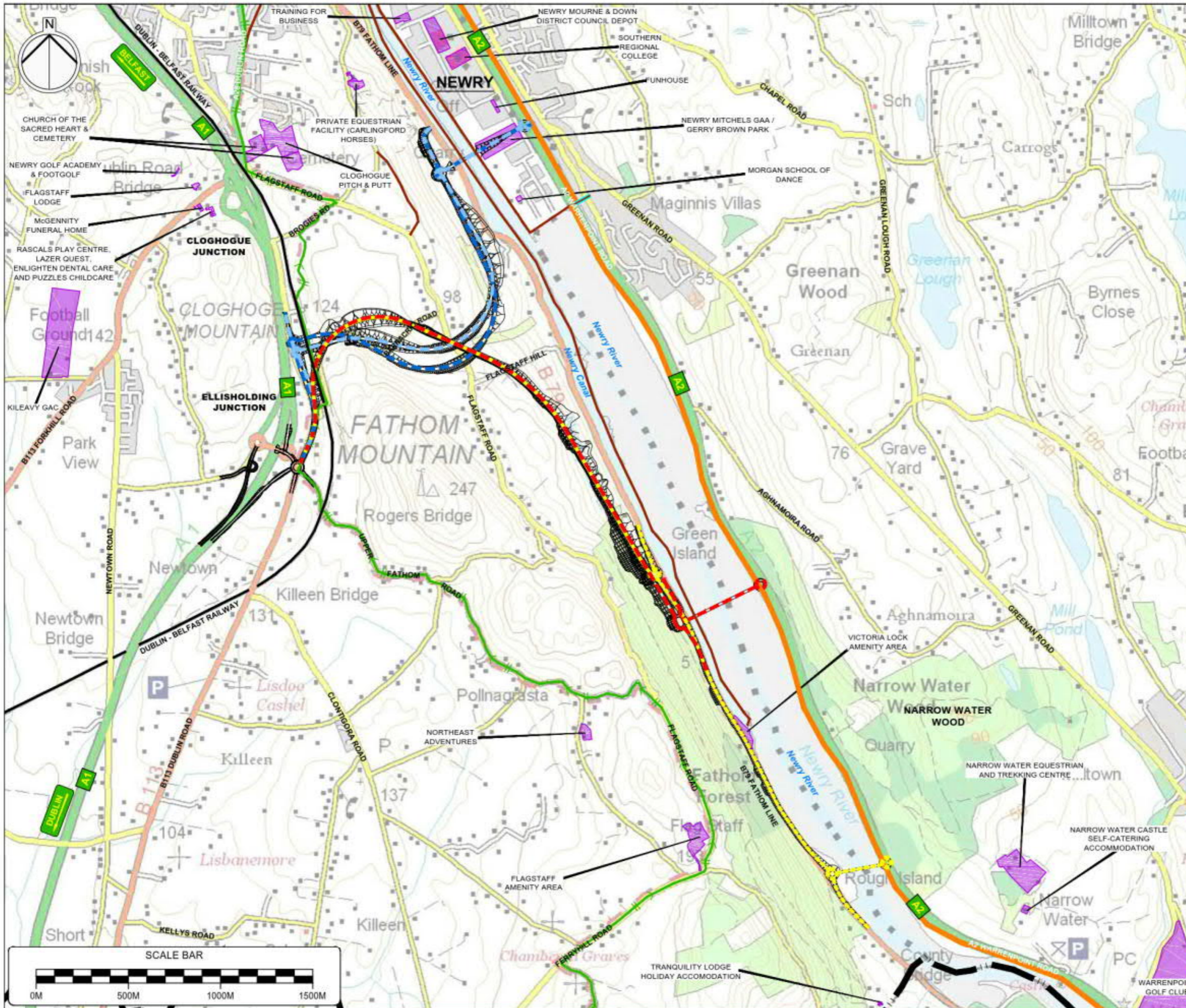
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**FIGURE 5.7.6**

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**Co-financed by the European Union**  
Trans-European Transport Network (TEN-T)

**Client**  
Department for Infrastructure  
An tAire  
Infrastructure Bonnégair

**Drawing Title**  
STAGE 2 SCHEME ASSESSMENT REPORT  
PEDESTRIAN, CYCLISTS, EQUESTRIAN  
& COMMUNITY EFFECTS  
COMMUNITY FACILITIES

**KEY**

**Community Facilities**

- Community Facility
- Public Right of Way (Asserted)
- Public Right of Way (Alleged)
- Ring of Gullion Way
- Existing Segregated Cycleway
- Railway

**Route Options**

- Yellow Route
- Red Route
- Blue Route Option 1
- Blue Route Options 2 & 3
- Indicative Ellisholding Junction Arrangement (coincident with all routes)
- A Class Road
- Railway
- International Border

**Scale @ A3**  
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AECOM Internal Project Number  
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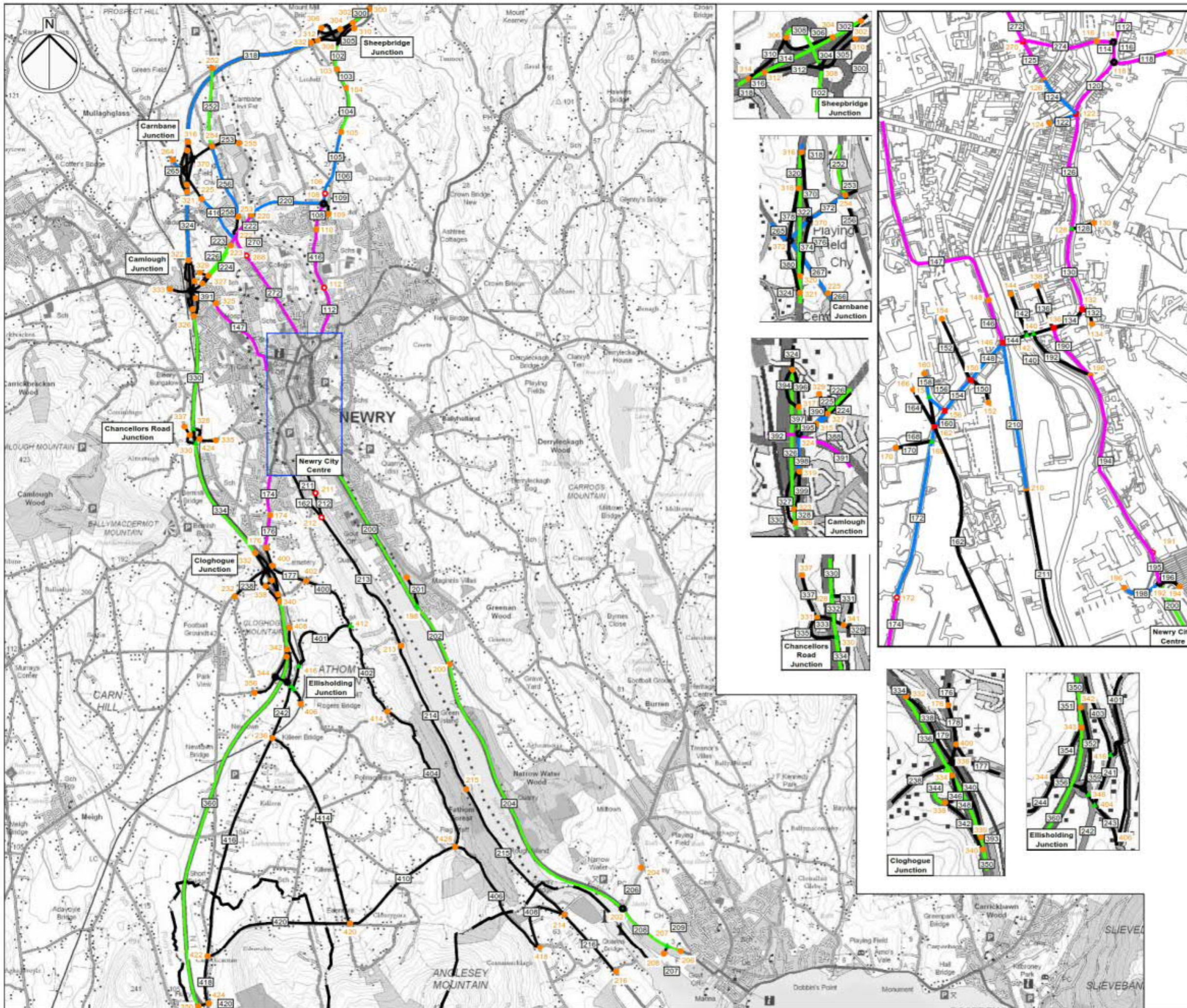
**FIGURE 5.8.1**

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Client  
**Infrastructure Bonnair**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
VEHICLE TRAVELLERS  
DRIVER STRESS  
BASE LINE**

**KEY**

Low Driver Stress	Node Point
Medium Driver Stress	Roundabout
High Driver Stress	Traffic Signals
Link	Priority Junction
Node Number	Speed Limit Change Point
Link Number	
International Border	

Scale @ A3  
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AECOM Internal Project Number  
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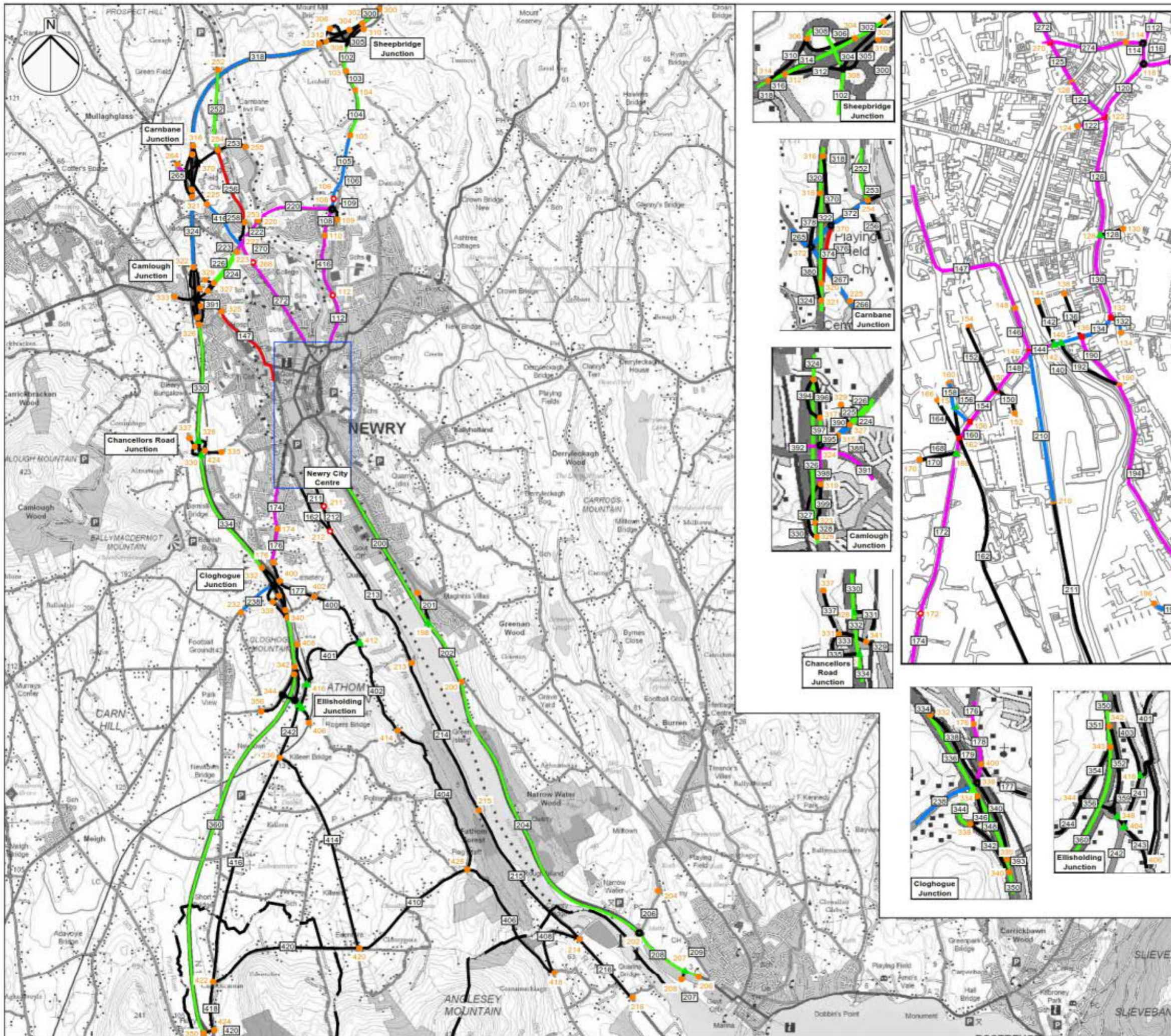
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**FIGURE 5.9.1**

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Client  
**Infrastructure Bonnair**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
VEHICLE TRAVELLERS  
DRIVER STRESS  
DO-MINIMUM**

**KEY**

Low Driver Stress	Node Point
Medium Driver Stress	Roundabout
High Driver Stress	Traffic Signals
Link	Priority Junction
Node Number	Speed Limit Change Point
Link Number	
International Border	

Scale @ A3  
NOT TO SCALE  
AECOM Internal Project Number  
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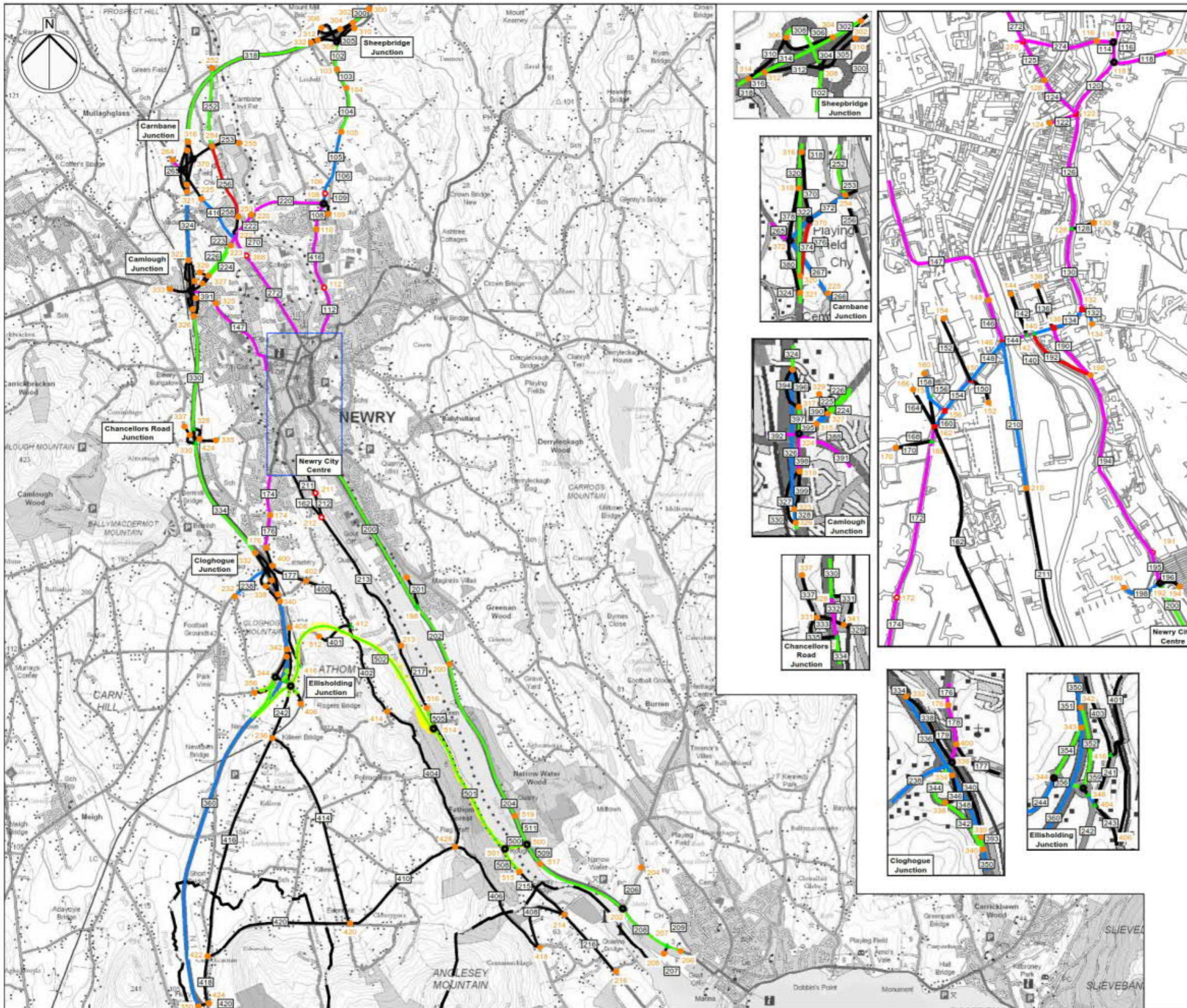
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Trans-European Transport Network (TEN-T)

**Client**  
Infrastructure **Bonnegair**

**Drawing Title**  
STAGE 2 SCHEME ASSESSMENT REPORT  
VEHICLE TRAVELLERS  
DRIVER STRESS  
DO-SOMETHING YELLOW ROUTE

**KEY**

Low Driver Stress	Node Point
Medium Driver Stress	Roundabout
High Driver Stress	Traffic Signals
Link	Priority Junction
134 Node Number	Speed Limit Change Point
190 Link Number	
International Border	

**Route Option**

Yellow Route

Scale @ A3  
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AECOM Internal Project Number 60472927

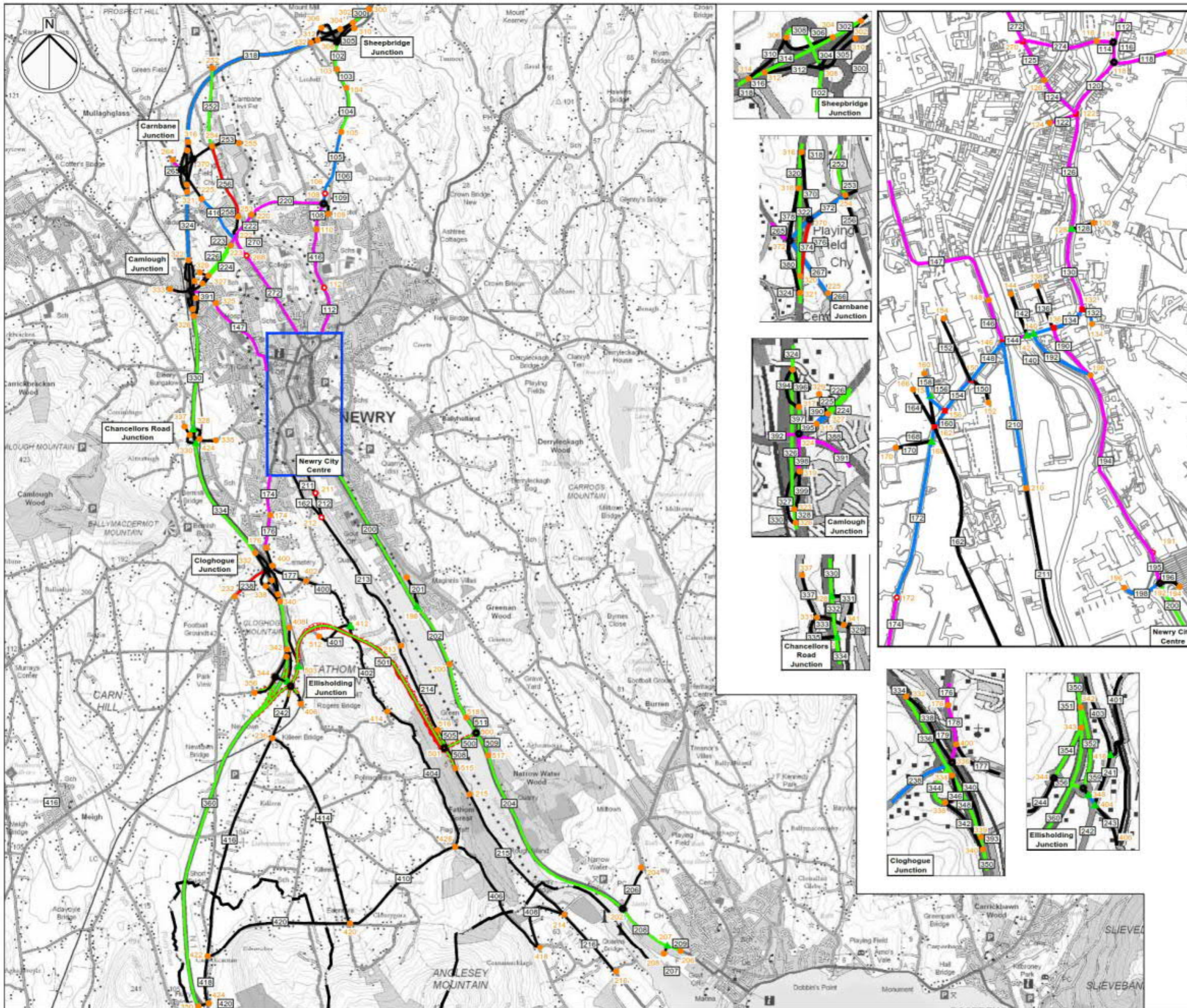
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**FIGURE 5.9.3**

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Project Title  
**NEWRY SOUTHERN RELIEF ROAD**

Co-financed by the European Union  
Trans-European Transport Network (TEN-T)

Client  
**Infrastructure Bonnair**

Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
VEHICLE TRAVELLERS  
DRIVER STRESS  
DO-SOMETHING RED ROUTE**

**KEY**

Low Driver Stress	Node Point
Medium Driver Stress	Roundabout
High Driver Stress	Traffic Signals
Link	Priority Junction
Node Number	Speed Limit Change Point
Link Number	
International Border	

**Route Option**

Red Route

Scale @ A3  
NOT TO SCALE  
AECOM Internal Project Number  
60472927

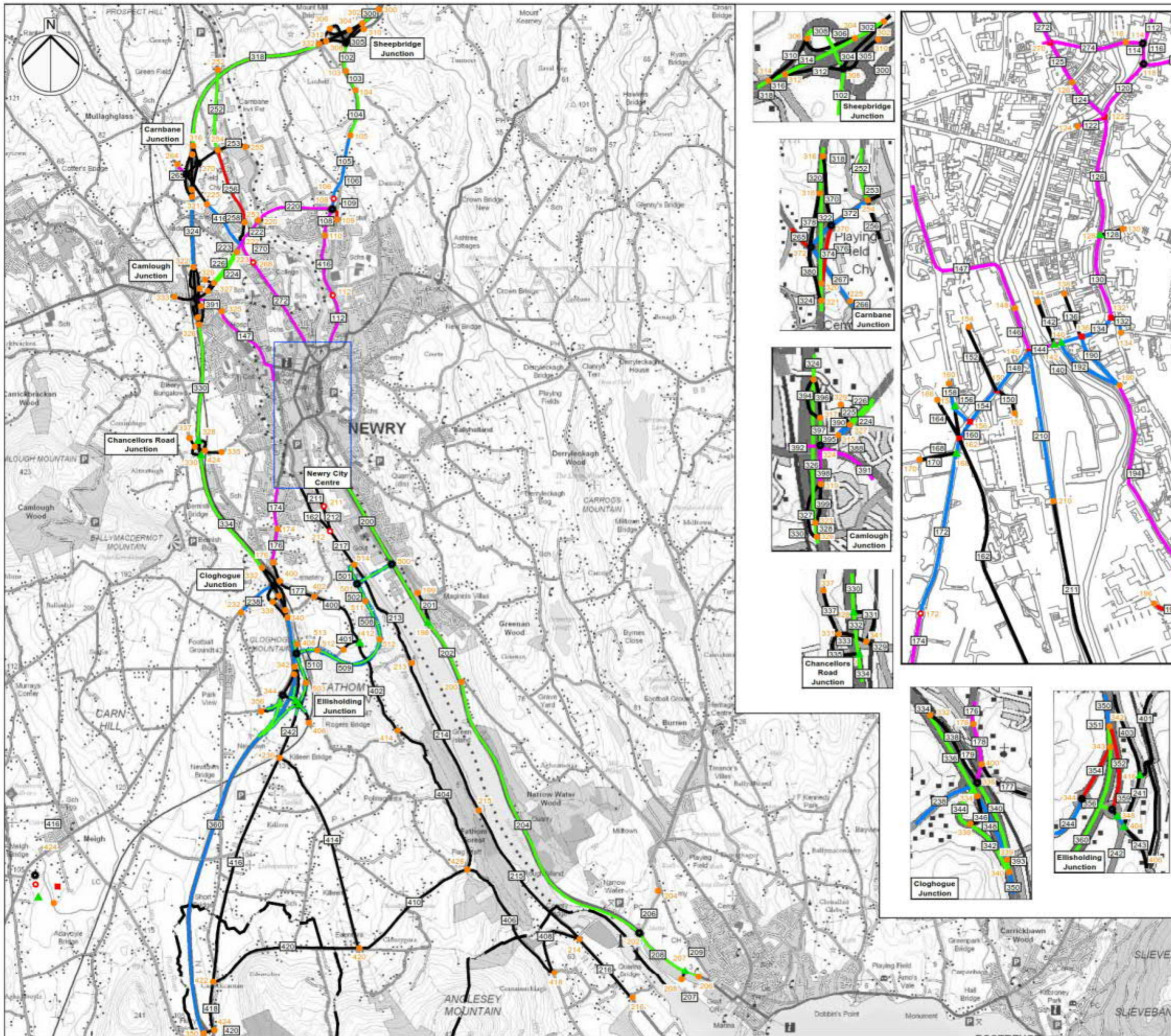
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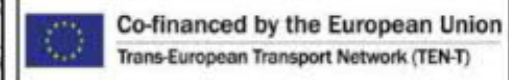
**FIGURE 5.9.4**

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Project Title  
**NEWRY SOUTHERN RELIEF ROAD**



Drawing Title  
**STAGE 2 SCHEME ASSESSMENT REPORT  
 VEHICLE TRAVELLERS  
 DRIVER STRESS  
 DO-SOMETHING BLUE ROUTE OPTION 1**

**KEY**

Low Driver Stress	Node Point
Medium Driver Stress	Roundabout
High Driver Stress	Traffic Signals
Link	Priority Junction
Node Number	Speed Limit Change Point
Link Number	
International Border	

**Route Option**  
 Blue Route Option 1

Scale @ A3  
 NOT TO SCALE  
 AECOM Internal Project Number  
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**FIGURE 5.9.5**

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