



Clifton Scannell Emerson
Associates

Kilkenny Northern Ring Road Extension – (Freshford Road to Castlecomer Road)

Environmental Impact Statement Volume 3: Figures



Client: Kilkenny County Council

Date: 15th November 2013

Job Number: 07_088

CONSULTING ENGINEERS

Civil
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Health
and Safety



Document Control Sheet

Project Name: Kilkenny Northern Ring Road Extension – (Freshford Road to Castlecomer Road)

Project Number: 07_088

Report Title: Environmental Impact Statement - Volume 3: Figures

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Issue No.	Issue Status	Date	Prepared by	Checked by
1 st	DRAFT	31/05/13	CAB	GE
2 nd	DRAFT	15/11/13	CAB	GE



PREFACE

THIS ENVIRONMENTAL IMPACT STATEMENT CONSISTS OF THE FOLLOWING FOUR DOCUMENTS:

VOLUME 1
NON-TECHNICAL SUMMARY

VOLUME 2
MAIN REPORT

VOLUME 3
FIGURES

VOLUME 4
APPENDICES

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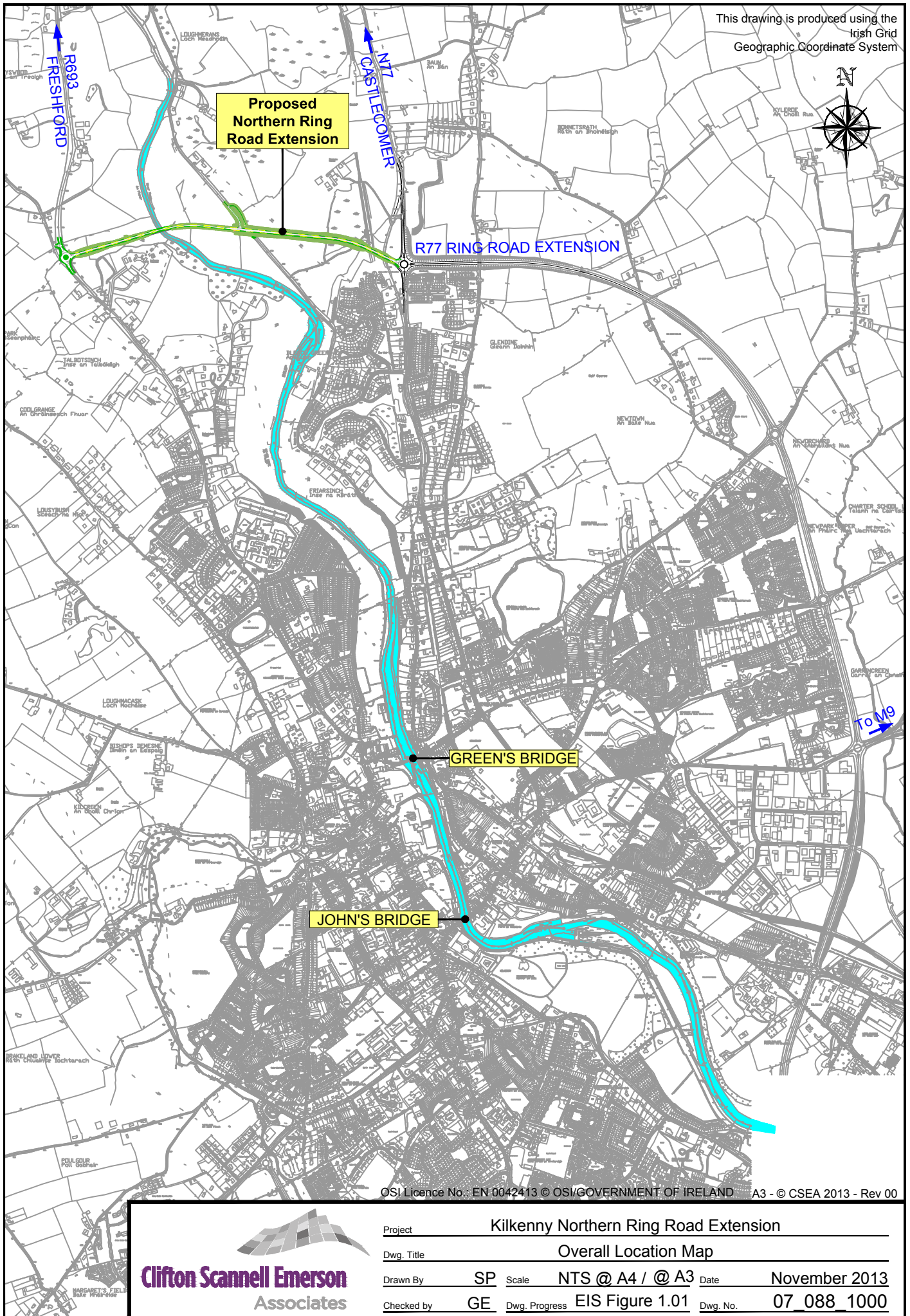
FIGURE 1.01

Overall Location Map

&

FIGURE 1.02

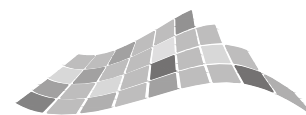
Overall Layout



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Project	Kilkenny Northern Ring Road Extension				
Dwg. Title	Overall Location Map				
Drawn By	SP	Scale	NTS @ A4 / @ A3	Date	November 2013
Checked by	GE	Dwg. Progress	EIS Figure 1.01	Dwg. No.	07 088 1000



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Project	Kilkenny Northern Ring Road Extension				
Dwg. Title	Overall Layout				
Drawn By	SP	Scale	1:5000 @ A3	Date	November 2013
Checked by	GE	Dwg. Progress	EIS Figure 1.02	Dwg. No.	07_088_1001

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FIGURE 2.01

Projected Traffic Flows

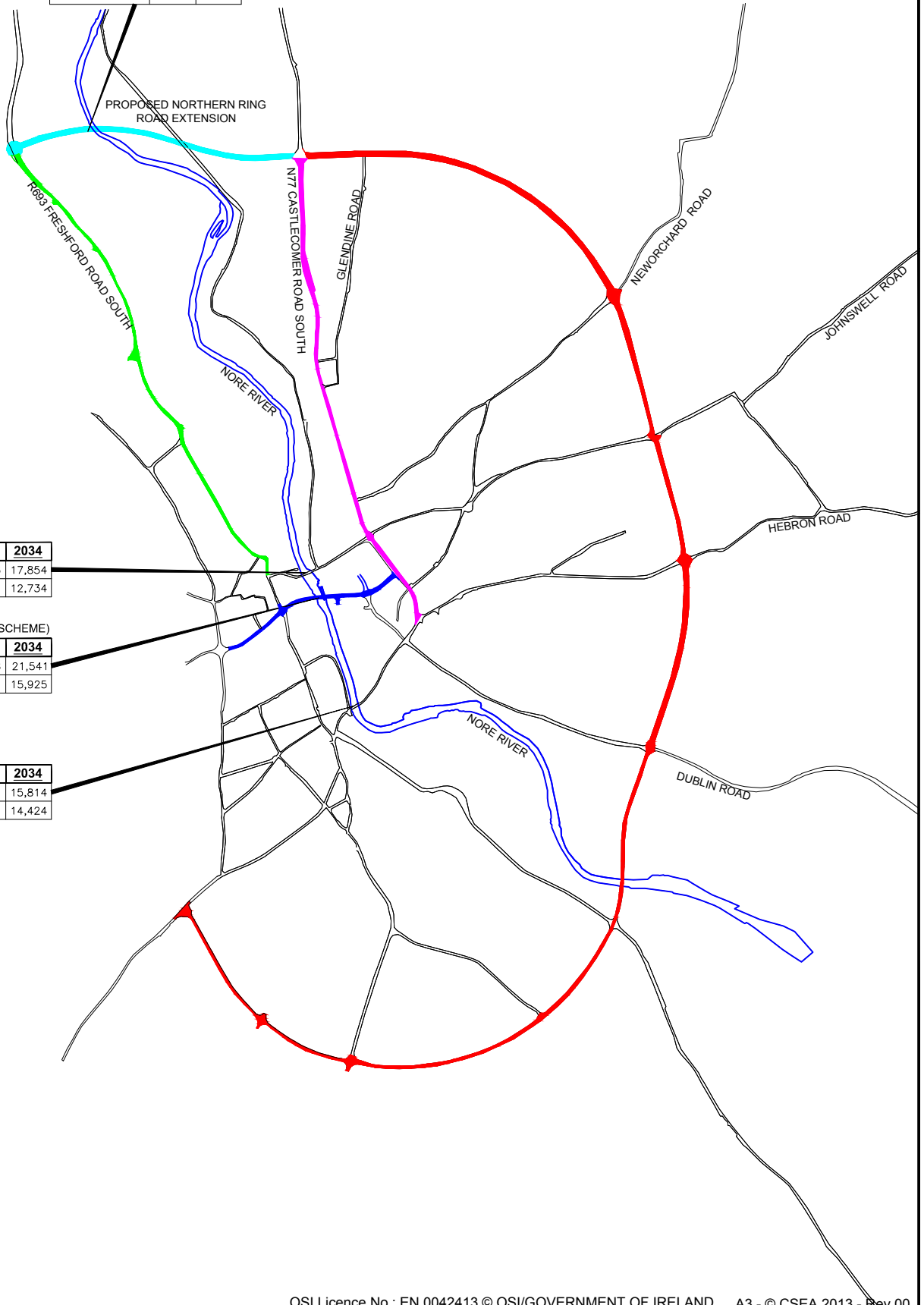
&

FIGURE 2.02

Scheme Identified on Kilkenny City & Environs Development Plan



SCENARIO	2019	2034
DO SOMETHING	7,705	15,925



GREEN'S BRIDGE

SCENARIO	2019	2034
DO NOTHING	11,956	17,854
DO SOMETHING	9,383	12,734

CSA (CENTRAL ACCESS SCHEME)

SCENARIO	2019	2034
DO NOTHING	10,388	21,541
DO SOMETHING	7,350	15,925

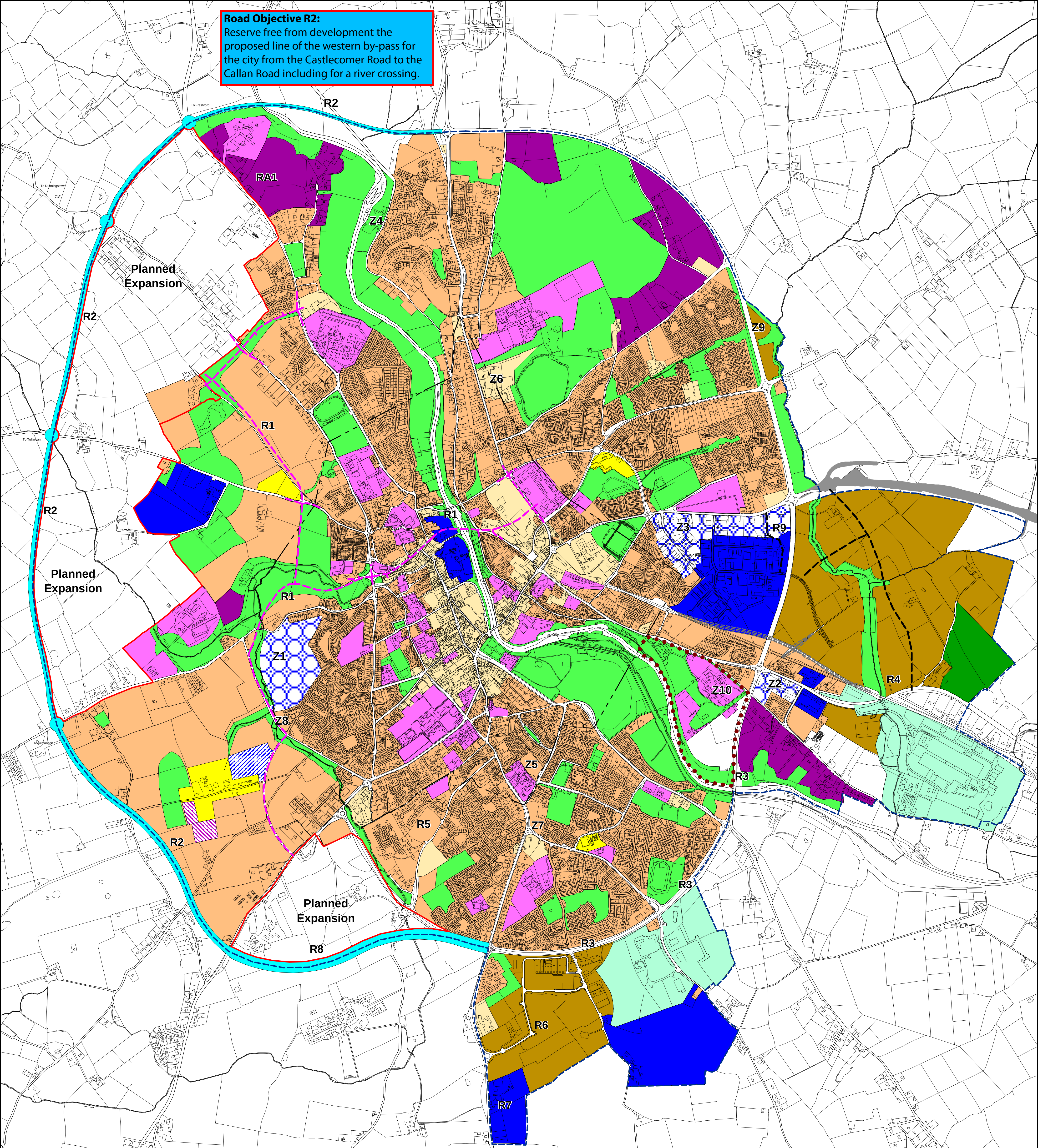
JOHN'S BRIDGE

SCENARIO	2019	2034
DO NOTHING	7,049	15,814
DO SOMETHING	6,988	14,424

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Project	Kilkenny Northern Ring Road Extension				
Dwg. Title	Projected Traffic Flows AADT with/without Proposed Scheme				
Drawn By	SP	Scale	NTS @ A4 / @ A3	Date	November 2013
Checked by	GE	Dwg. Progress	EIS Figure 2.01	Dwg. No.	07_088_1002



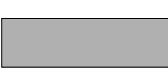
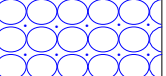
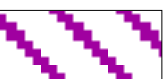
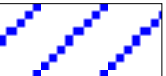
Road Objective R2:
Reserve free from development the proposed line of the western by-pass for the city from the Castlecomer Road to the Callan Road including for a river crossing.



Kilkenny City & Environs Development Plan 2008-2014

Figure 9.1: Zoning Objectives Map



	Residential		Business Park		N9 Corridor
	Residential (Low Density)		Agritrade		Proposed Ring Road
	Neighbourhood/Village Centre		Agriculture		Indicative Road Lines
	Industrial/Warehousing		General Business		Indicative Line Of Central Access Scheme
	Community Facilities		Mixed Use		Development Boundary
	Recreation, Amenity and Open Space		Reserved Site		Borough Boundary
	Industrial Technology Park		New School Campus		Proposed Master Plan Area
					Planned Expansion
					R1 Road Objectives
					Z1 Zoning Objective

Scale 1:10,000

Based on Ordnance Survey of Ireland Map,
Licence No. "Kilkenny/CCMA/08/12"



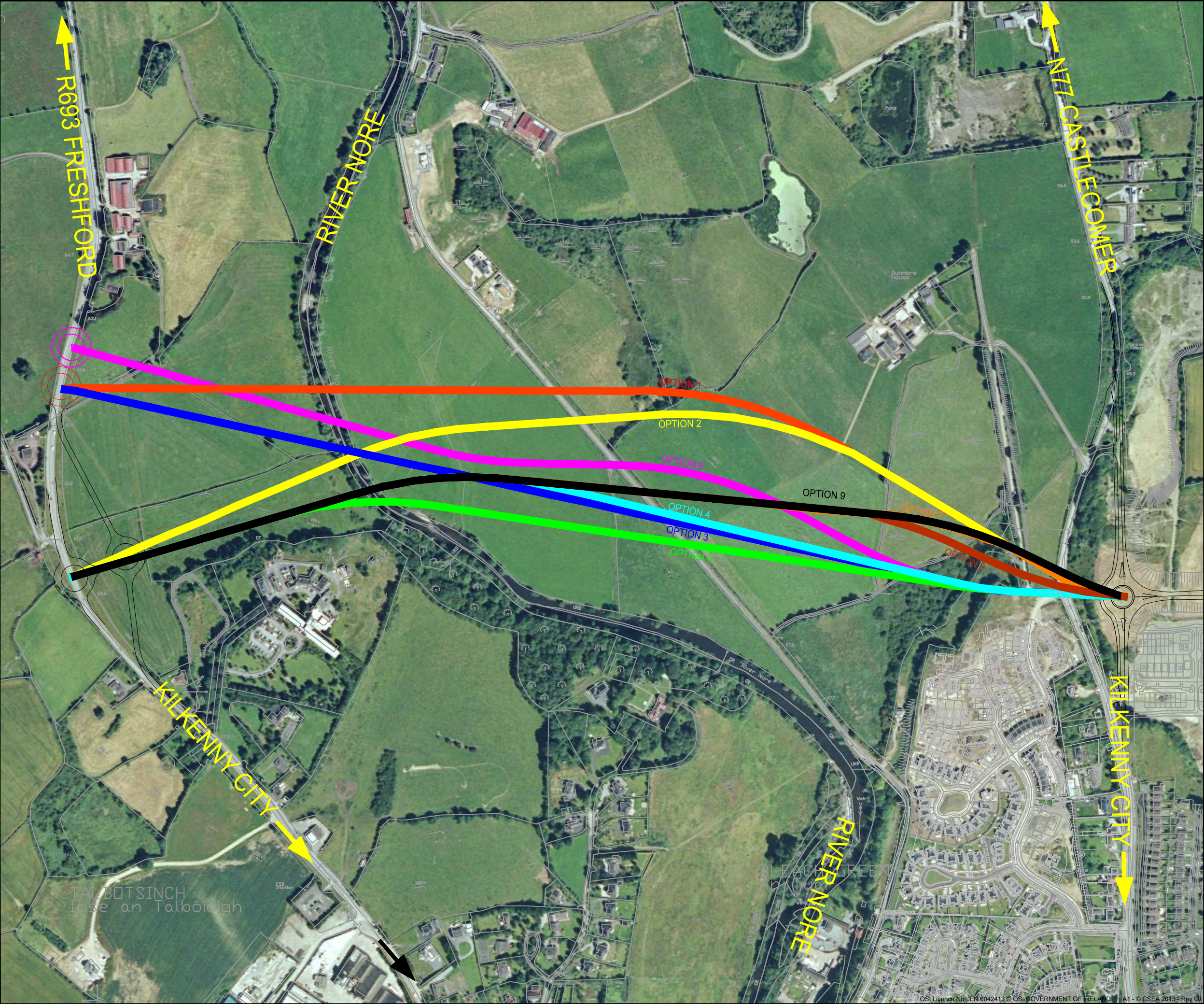
FIGURE 3.01

Route Options

&

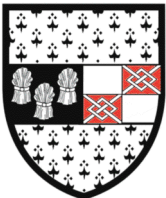
FIGURE 3.02

Profile Options



This drawing is produced using the
Irish Grid
Geographic Coordinate System

A1



COMHAIRLE CONTAE CILL CHAINNIGH
KILKENNY COUNTY COUNCIL



LEGEND:

- OPTION 1
- OPTION 2
- OPTION 3
- OPTION 4
- OPTION 5
- OPTION 6
- OPTION 7
- OPTION 8
- OPTION 9

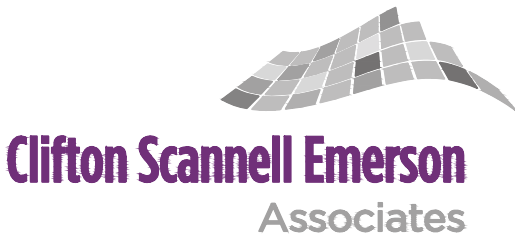
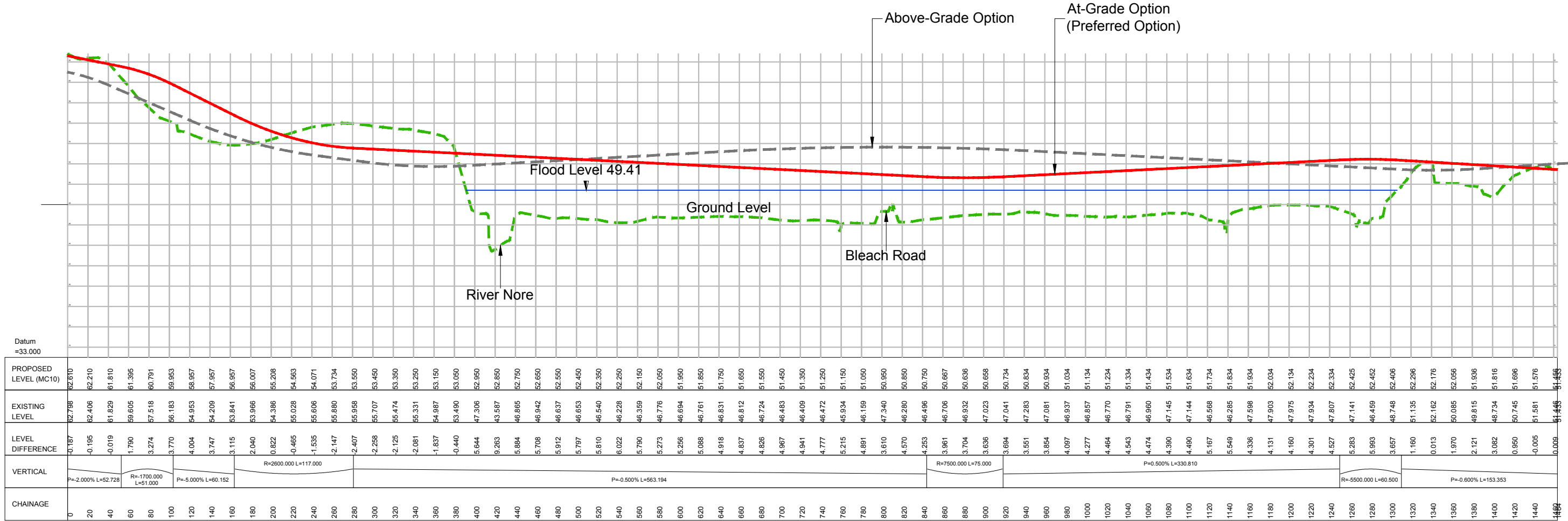


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Client	Kilkenny County Council		
Project	Kilkenny Northern Ring Road Extension Castlecomer Rd to Freshford Rd		
Dwg. Title	Route Options		
Drawn By	SP	Date	November 2013
Checked by	GE	Scale	1:5000 @ A3/1:2500 @ A1
Dwg. Progress	EIS Figure 3.01		
Dwg. No.	07_088_1003		



Project	Kilkenny Northern Ring Road Extension			
Dwg. Title	Profile Options			
Drawn By	SP	Scale	As Shown @ A3	Date November 2013
Checked by	GE	Dwg. Progress	EIS Figure 3.02	Dwg. No. 07_088_1004



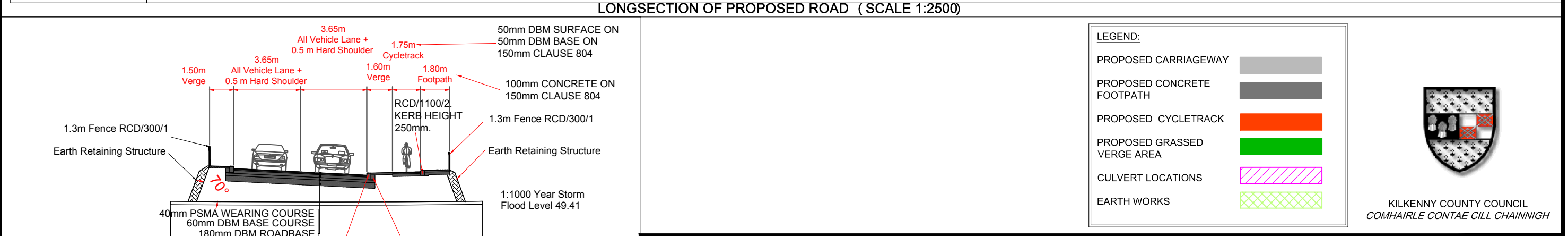
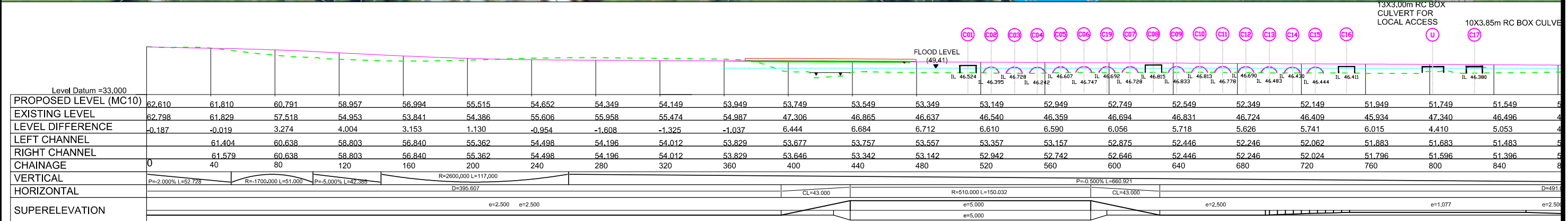
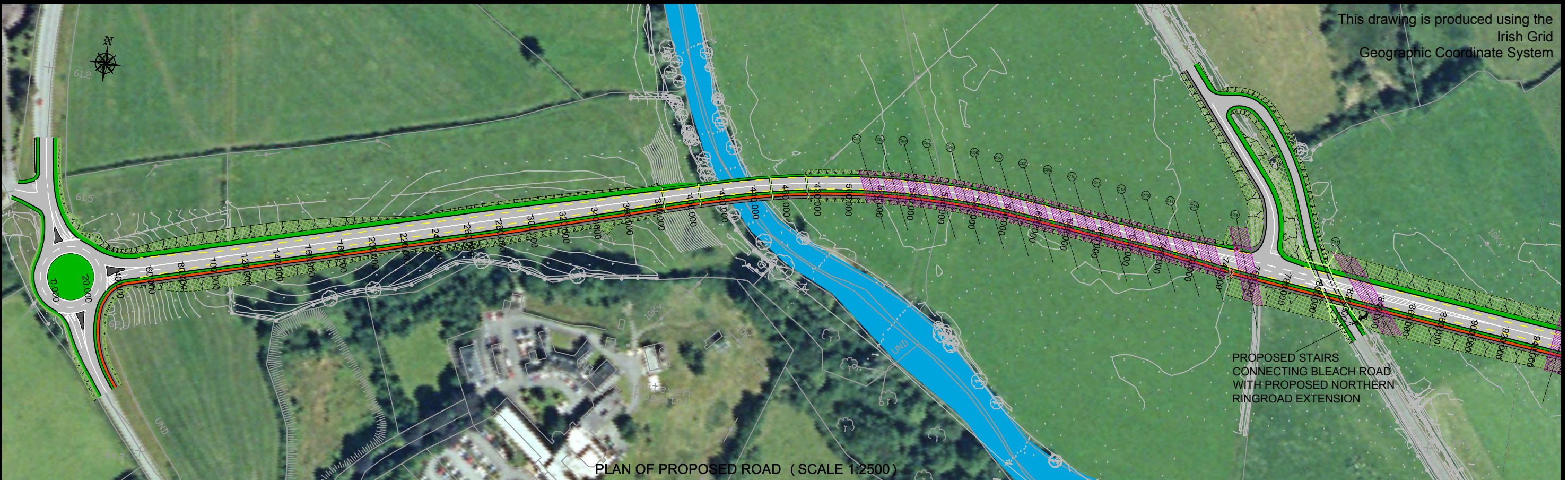
FIGURE 4.01 & 4.02

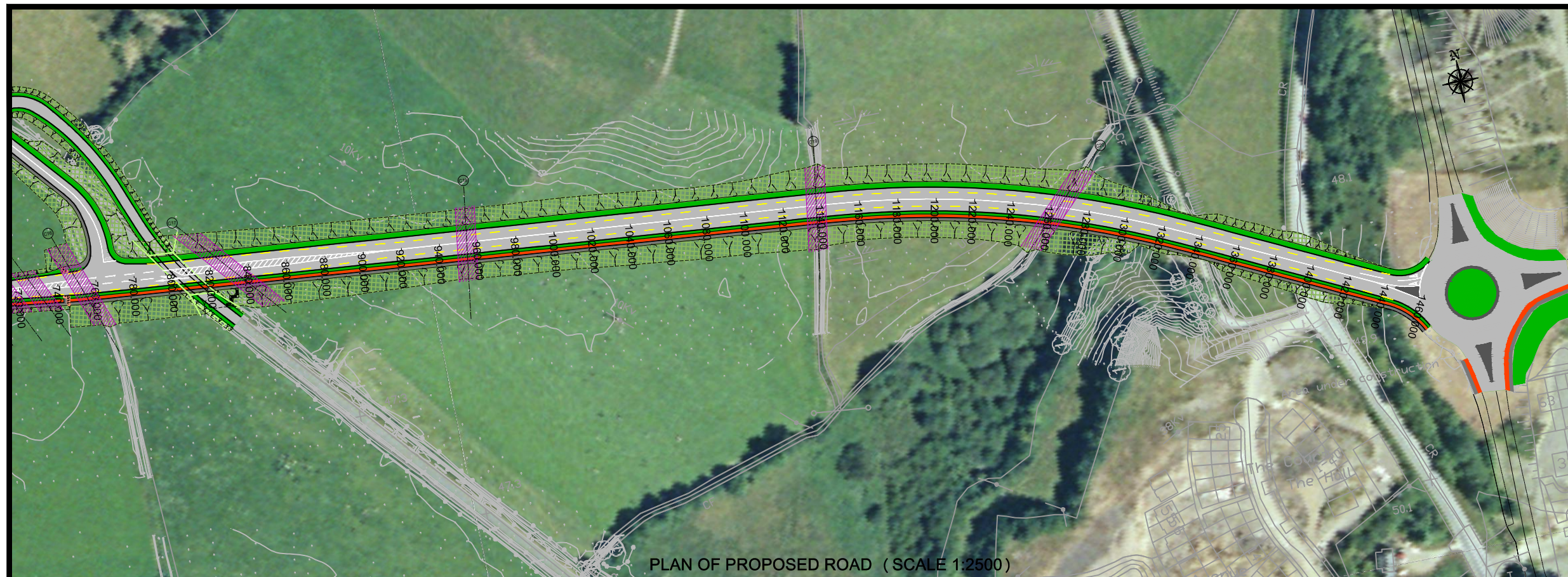
Proposed Road Layout: Plan, Long Section and Cross Section,

&

FIGURE 4.03

Proposed Bridge: Long Section and Cross Section

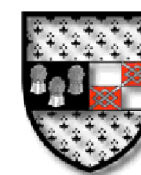




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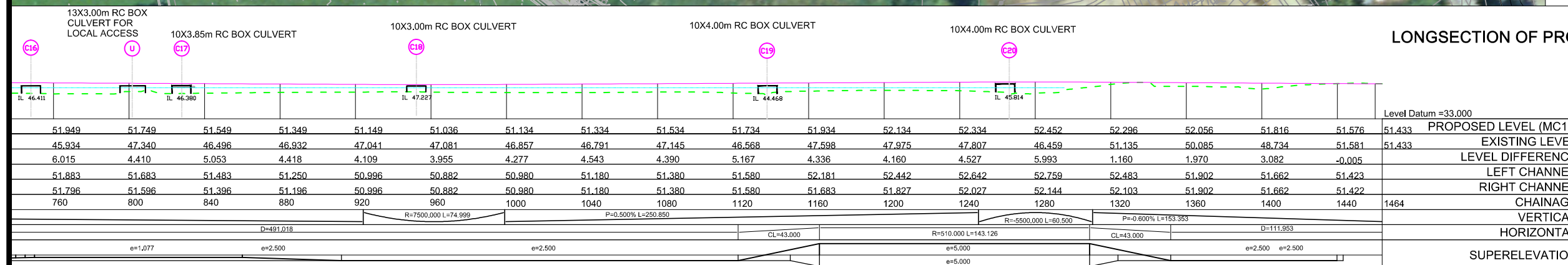
LEGEND:

- PROPOSED CARRIAGEWAY
- PROPOSED CONCRETE FOOTPATH
- PROPOSED CYCLETRACK
- PROPOSED GRASSED VERGE AREA
- CULVERT LOCATIONS
- EARTH WORKS

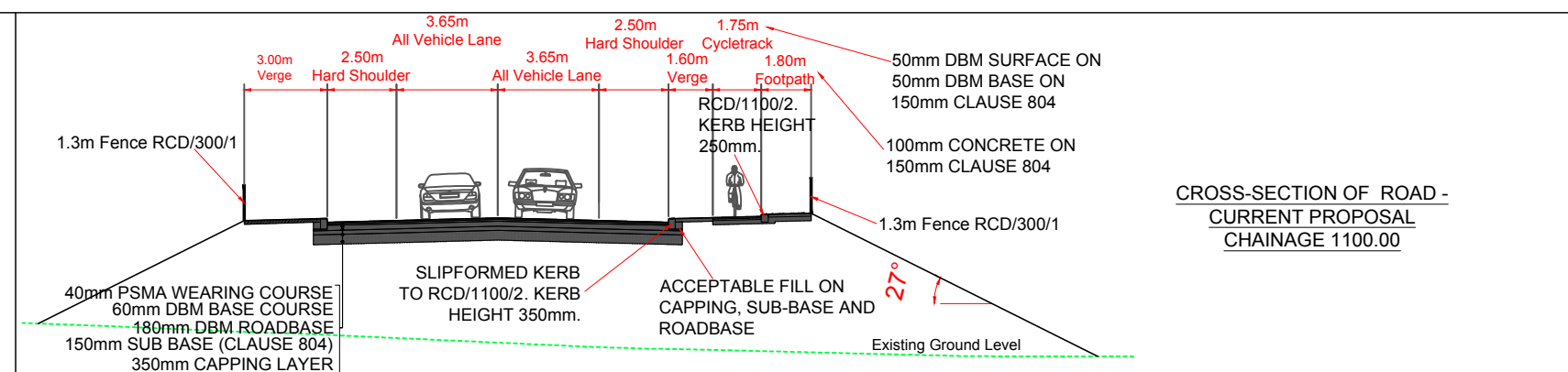
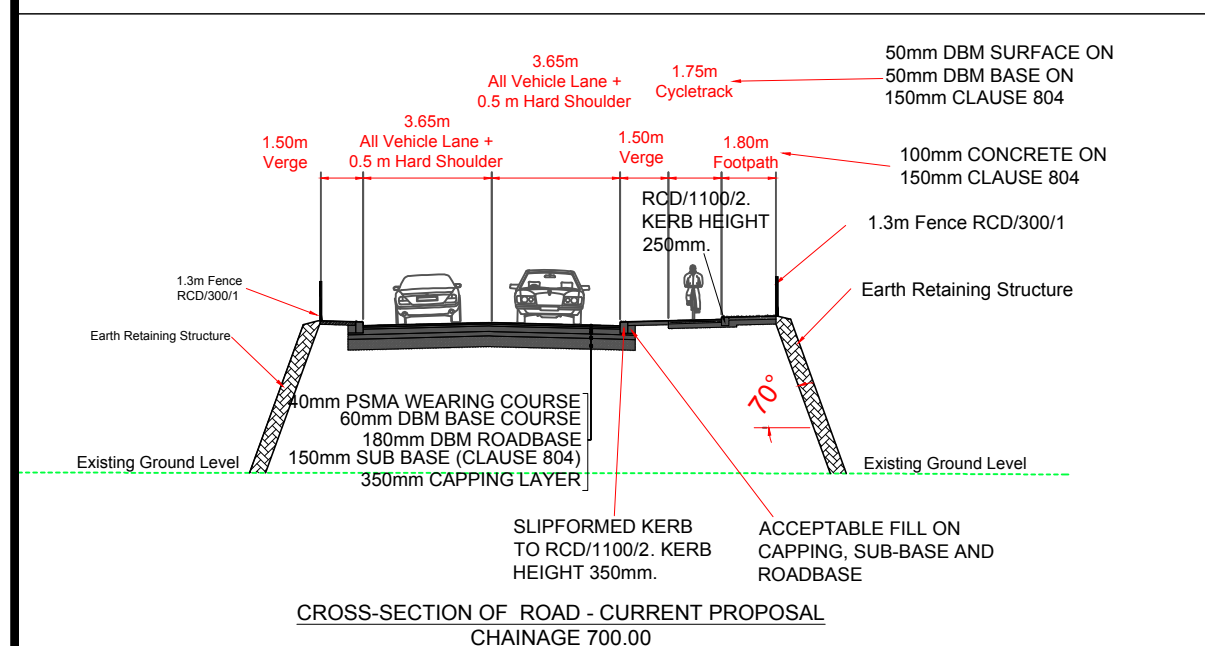


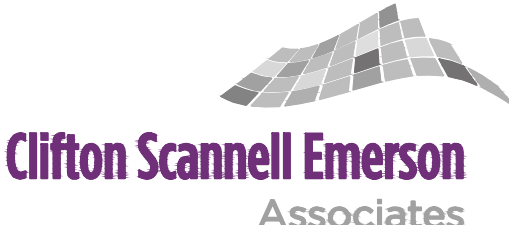
KILKENNY COUNTY COUNCIL
COMHAIRLE CONTAE CILL CHAINNIGH

PLAN OF PROPOSED ROAD (SCALE 1:2500)



LONGSECTION OF PROPOSED ROAD (SCALE 1:2500)





Kilkenny Northern Ring Road Ext., Freshford Rd. to Castlecomer Rd.
Project

Dwg. Title Proposed Road Layout, Sheet 2 of 2

Drawn By **KT** Scale **As Shown @ A3** Date **November 2013**

Checked by **CAB** Dwg. Progress **Figure 4.02** Dwg. No. **07_088_1014**

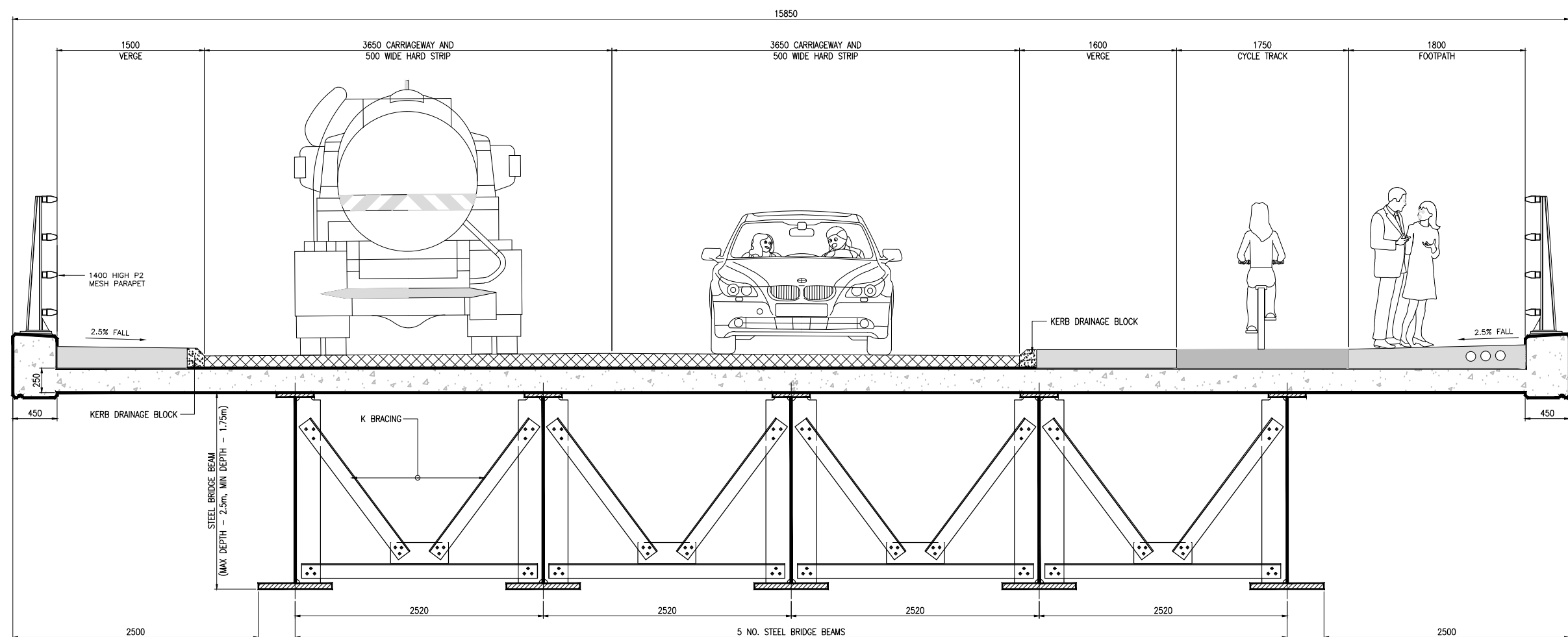
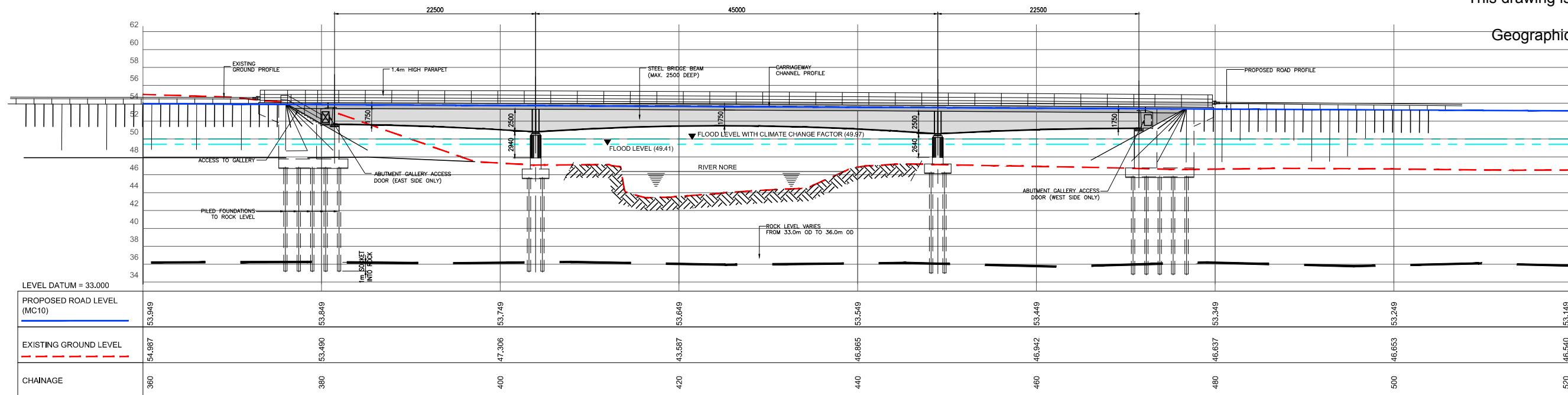


FIGURE 5.01, 5.02 & 5.03

Modelled Road Network,

FIGURE 5.04

Kilkenny and Environs Development Plan,

FIGURE 5.05, 5.06 & 5.07

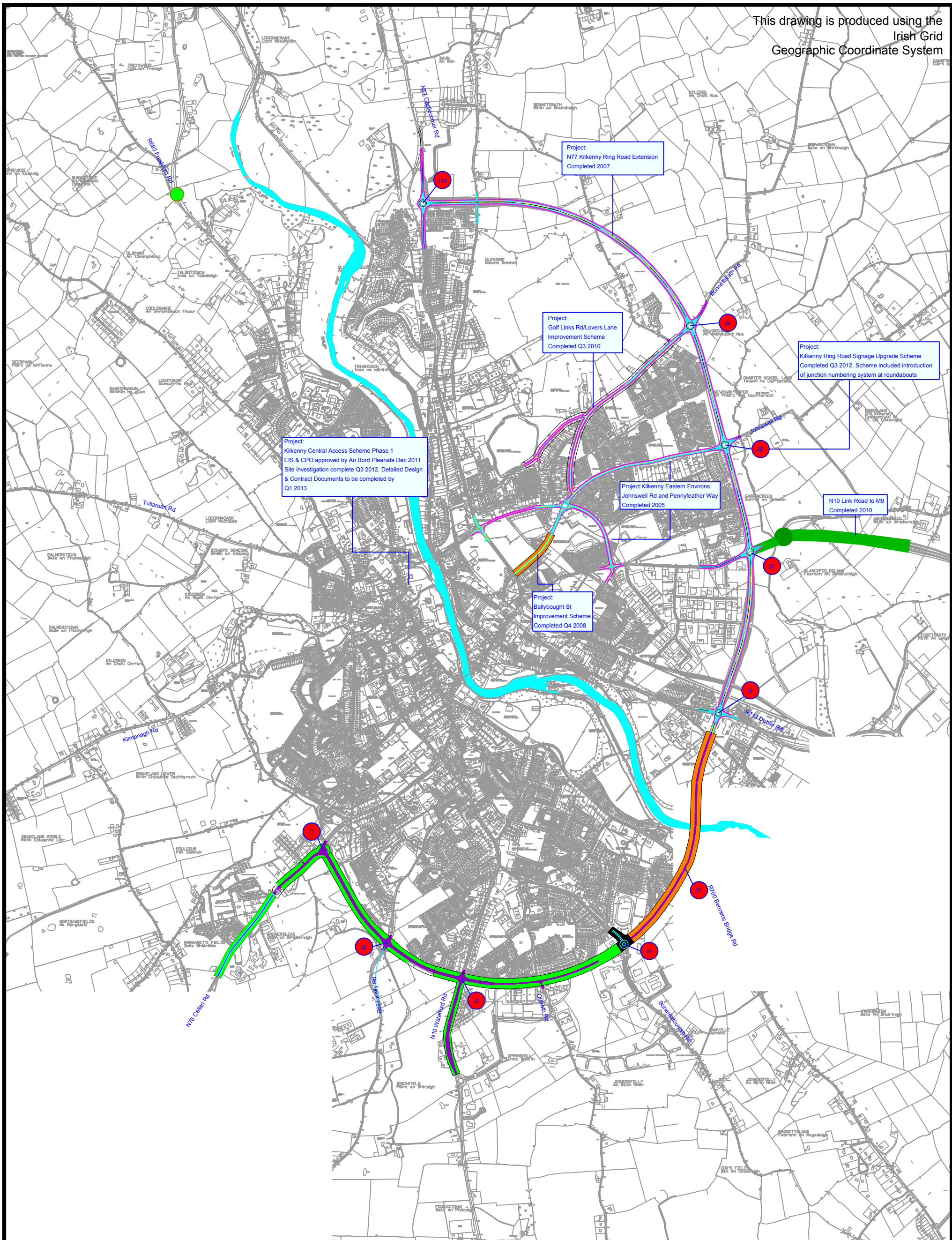
Traffic Model Zones

&

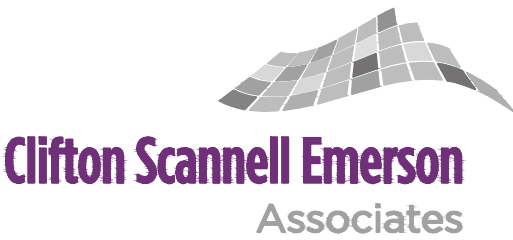
FIGURE 5.08

Future Traffic Flows

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Geographic Coordinate System



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Project	Kilkenny Northern Ring Road Extension				
Dwg. Title	Modelled Existing Road Network				
Drawn By	SP	Scale	NTS @ A3	Date	November 2013
Checked by	GE	Dwg. Progress	EIS Figure 5.01	Dwg. No.	07_088_1007

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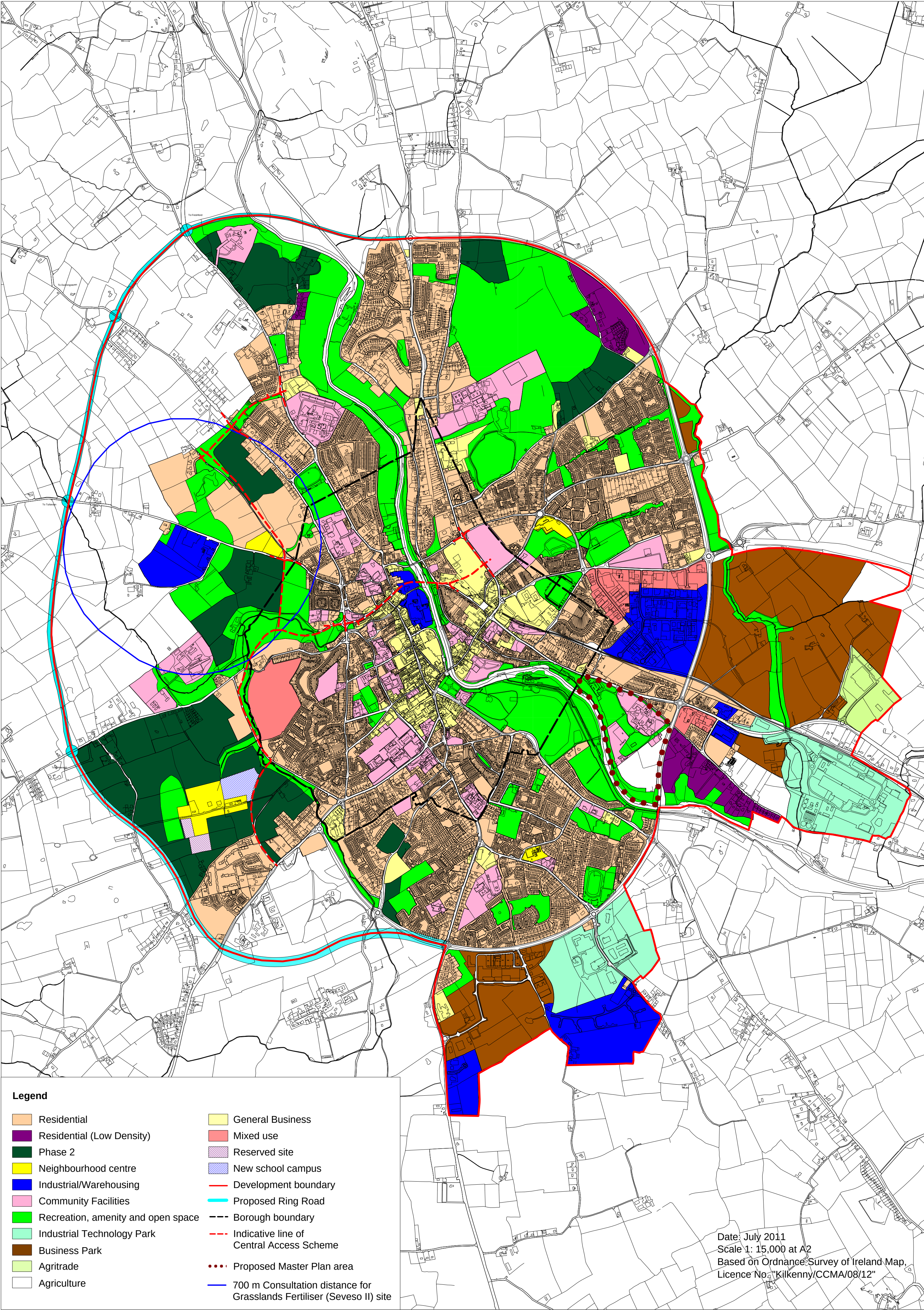


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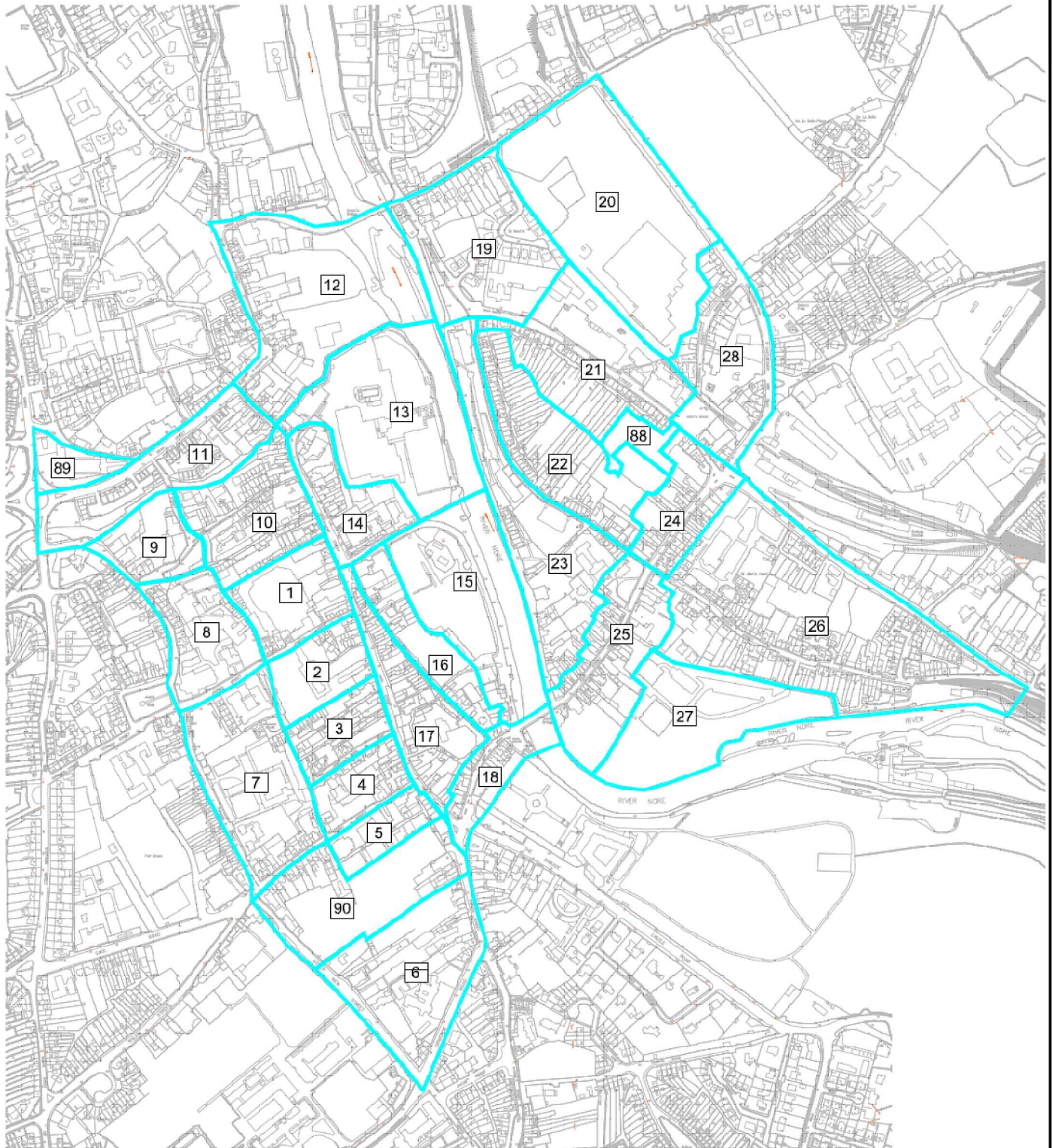
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Kilkenny City & Environs Development Plan 2008-2014 Variation 1: Zoning Objectives Map



LEGEND

TRAFFIC MODEL
ZONE BOUNDARY



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Project	Kilkenny Northern Ring Road Extension				
Dwg. Title	Traffic Model Zones – Central Area Zone Plan				
Drawn By	SP	Scale	NTS @ A4 / @ A3	Date	November 2013
Checked by	GE	Dwg. Progress	EIS Figure 5.05	Dwg. No.	07 088 1010

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LEGEND

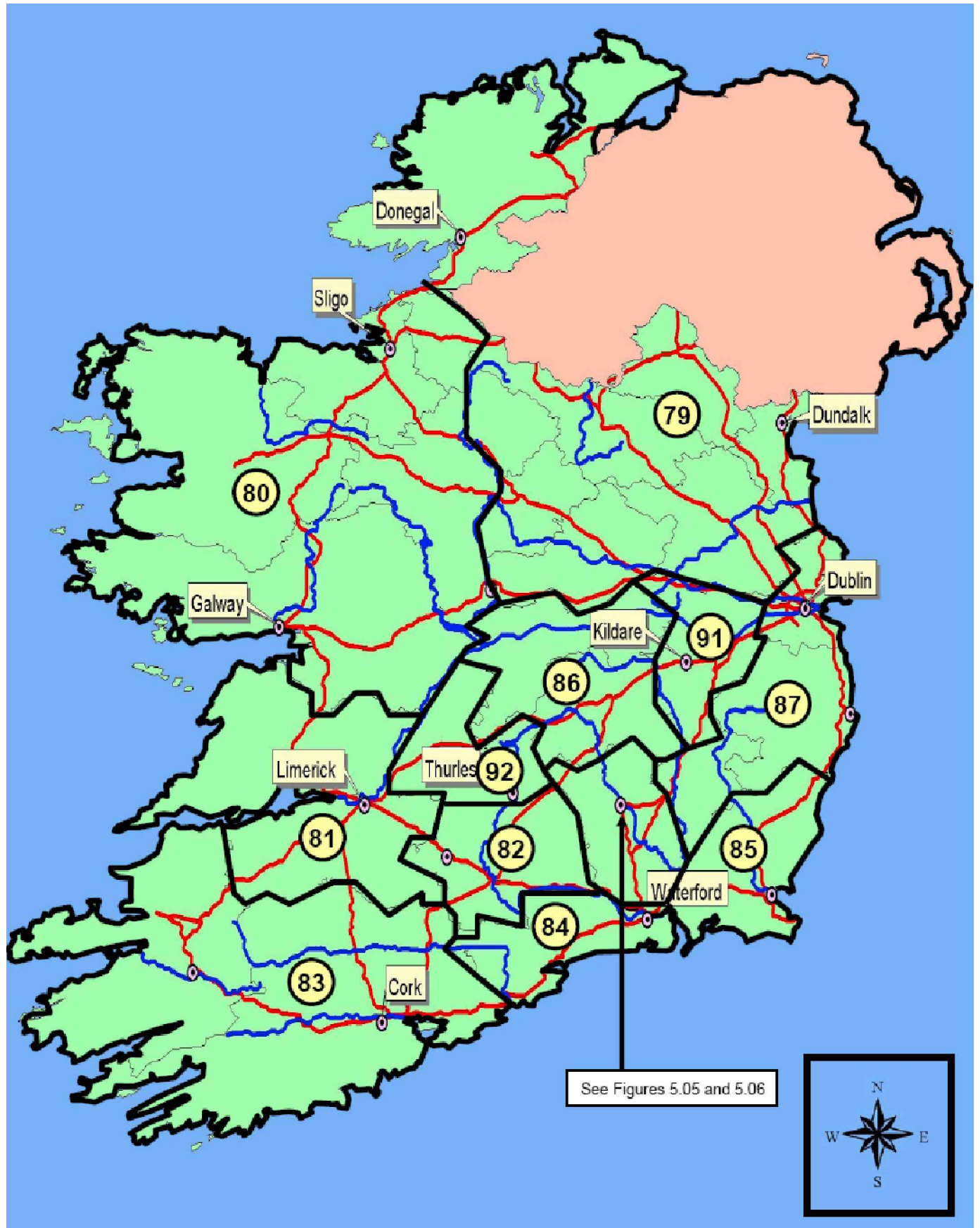
TRAFFIC MODEL
ZONE BOUNDARY



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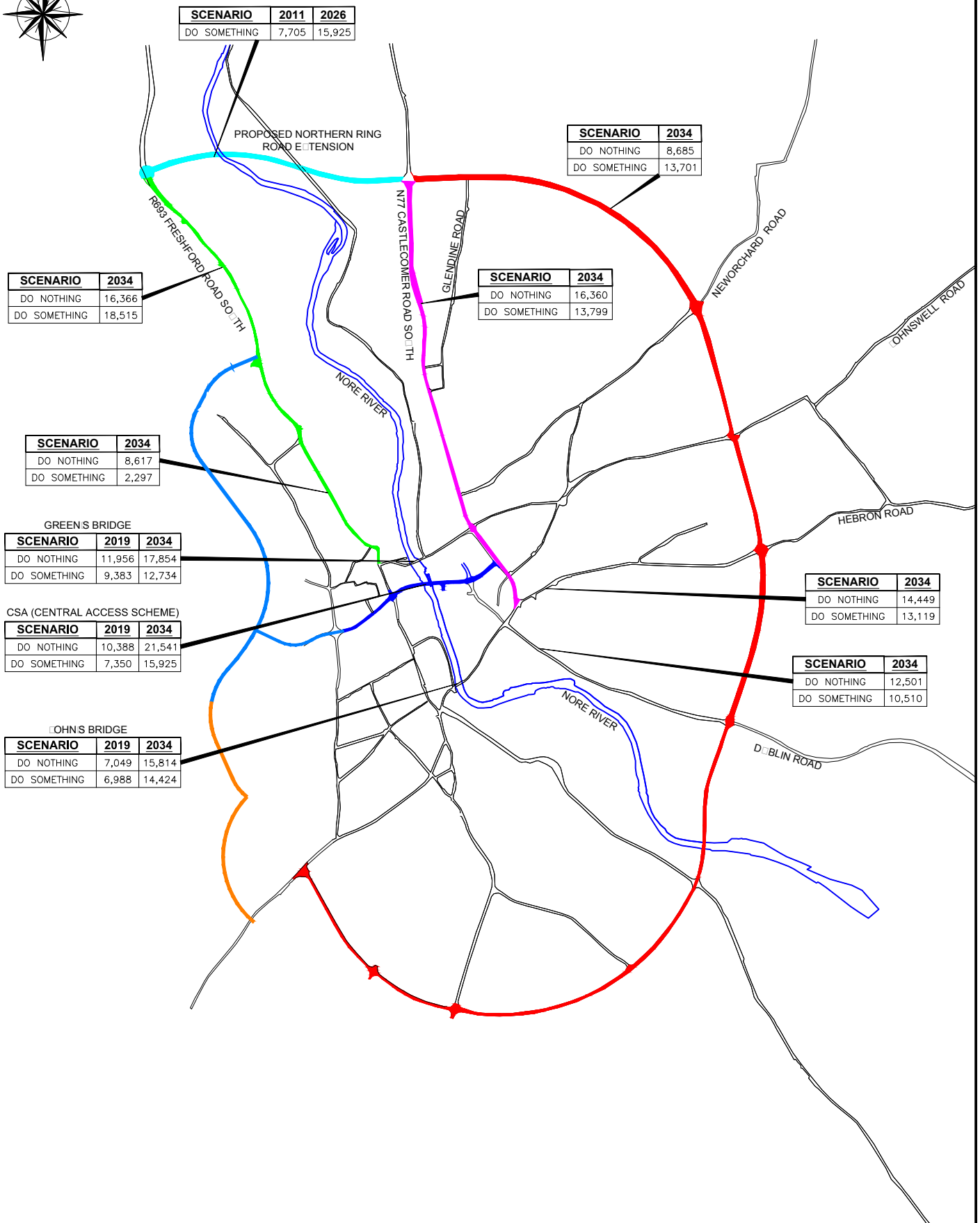
Project	Kilkenny Northern Ring Road Extension				
Dwg. Title	Traffic Model Zones – External Area Zone Plan				
Drawn By	SP	Scale	NTS @ A4 / @ A3	Date	November 2013
Checked by	GE	Dwg. Progress	EIS Figure 5.06	Dwg. No.	07 088 1011



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Project	Kilkenny Northern Ring Road Extension				
Dwg. Title	Traffic Model Zones - National/ Regional One Plan				
Drawn By	SP	Scale	NTS @ A4 / @ A3	Date	November 2013
Checked by	GE	Dwg. Progress	EIS Figure 5.07	Dwg. No.	07 088 1012



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Project **Kilkenny Northern Ring Road Extension**

Dwg. Title **Projected Traffic Flow AADT for Design Year 2034 with/without Proposed Scheme**

Drawn By **SP** **Scale** **N.T.S. @ A4 / @ A3** **Date** **November 2013**

Checked by **GE** **Dwg. Progress** **EIS Figure 5.08** **Dwg. No.** **07_088_1005**



FIGURE 8.01

Location of Electronic Gauges for Recording Flood Levels and Modelled River Reach

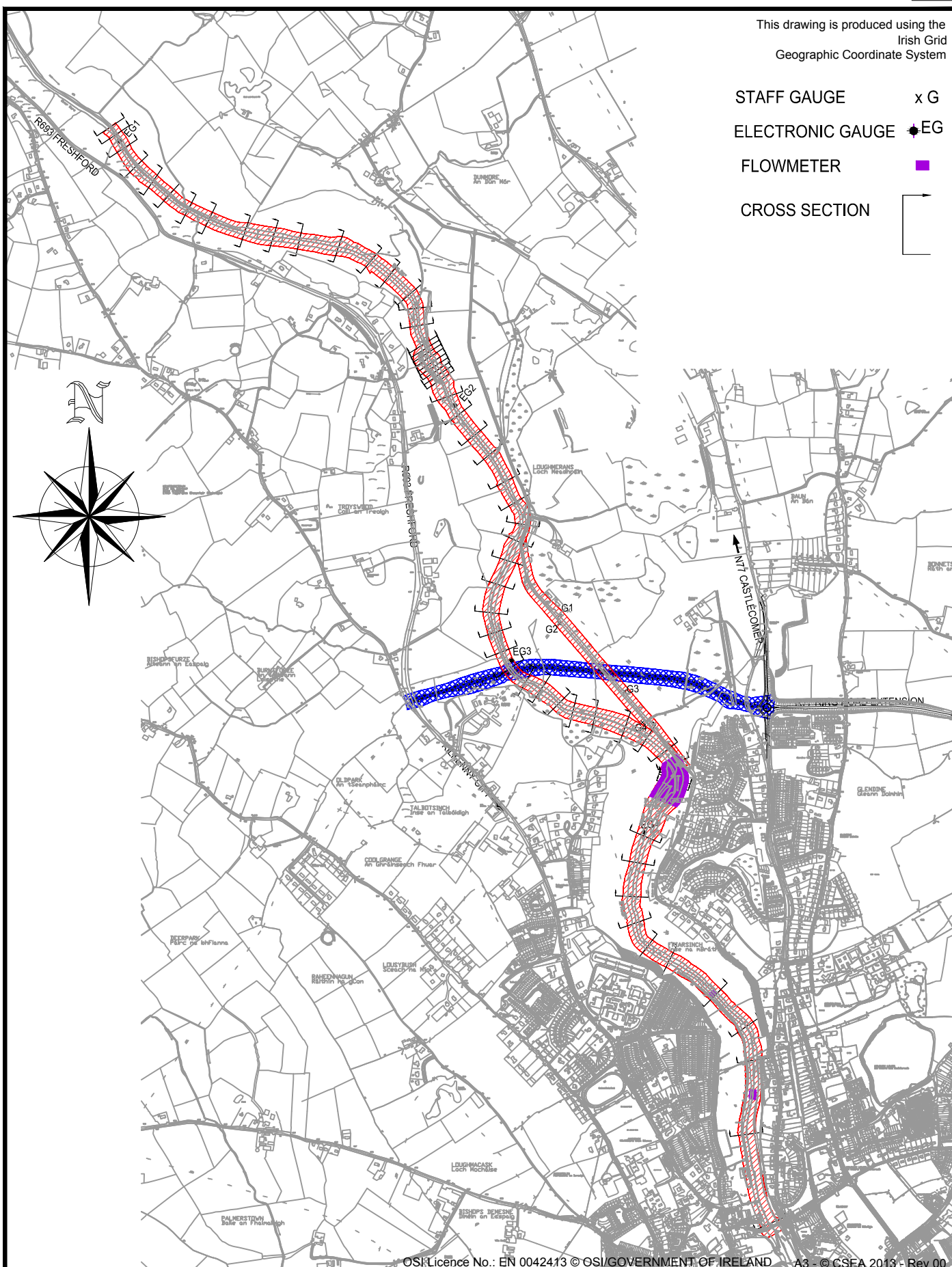
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STAFF GAUGE x G

ELECTRONIC GAUGE EG

FLOWMETER

CROSS SECTION



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Associates

Project **Kilkenny Northern Ring Road Extension**

Dwg. Title	Gauge and Cross Section Locations
------------	-----------------------------------

Drawn By **CAB** Scale **NTS @ A4 / @ A3** Date **November 2013**

Checked by GE Dwg. Progress EIS Figure 8.01 Dwg. No. 07_088_1016

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FIGURE 9.01, 9.02 & 9.03

Bedrock Geology, Subsoils and Soils,

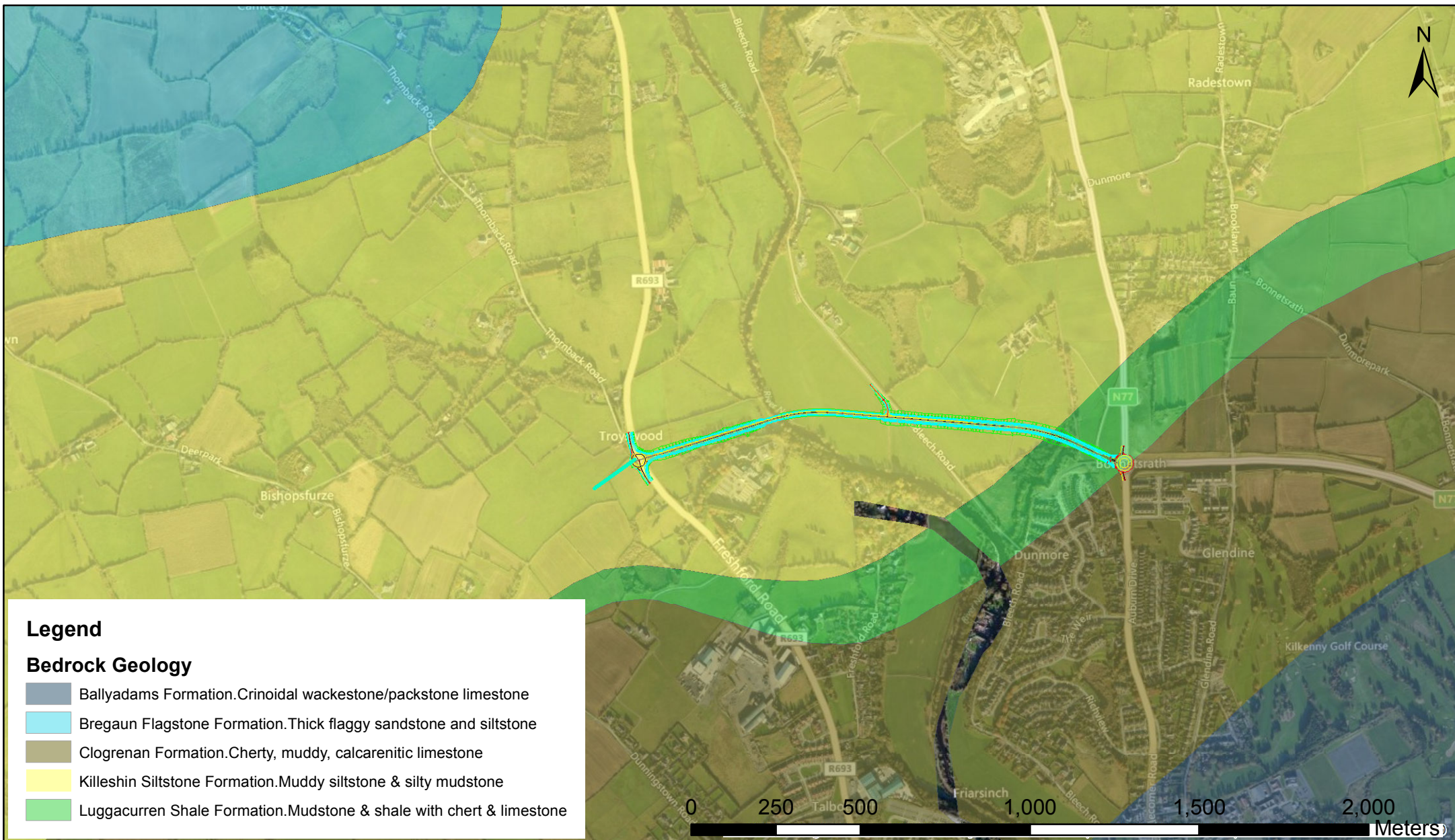
FIGURE 9.04a, 9.04b & 9.05

Gravel Aquifer, Bedrock Aquifer and Aquifer Vulnerability

&

FIGURE 9.07

EPA Licensed Facilities



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Fax: + 353 1 847 4257

CLIENT:

Clifton Scannell
Emerson Associates

PROJECT:

N77 Kilkenny Ring
Rd Extension

DRAWING TITLE:

Bedrock Geology

REVISION DESCRIPTION

DRAWN

D.C

CHECKED

D.B

APPROVED

D.B

APPD DATE

01/02/2013

Figure 9.01

No. of Shts

1

SIZE

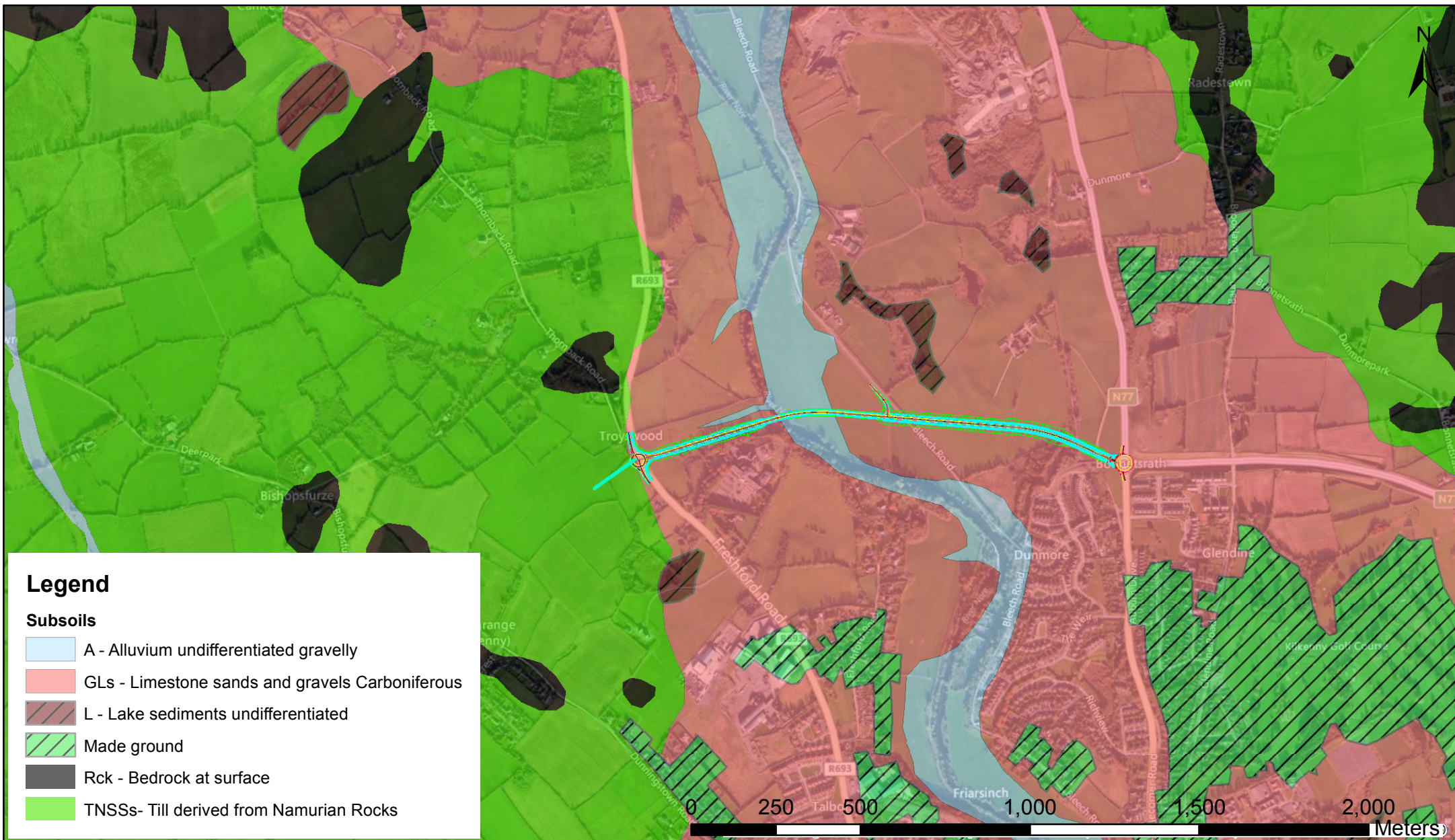
A4

SCALE

1:15,000

DRAWING NUMBER

SHEET REV



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CLIENT:

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Emerson Associates

PROJECT:

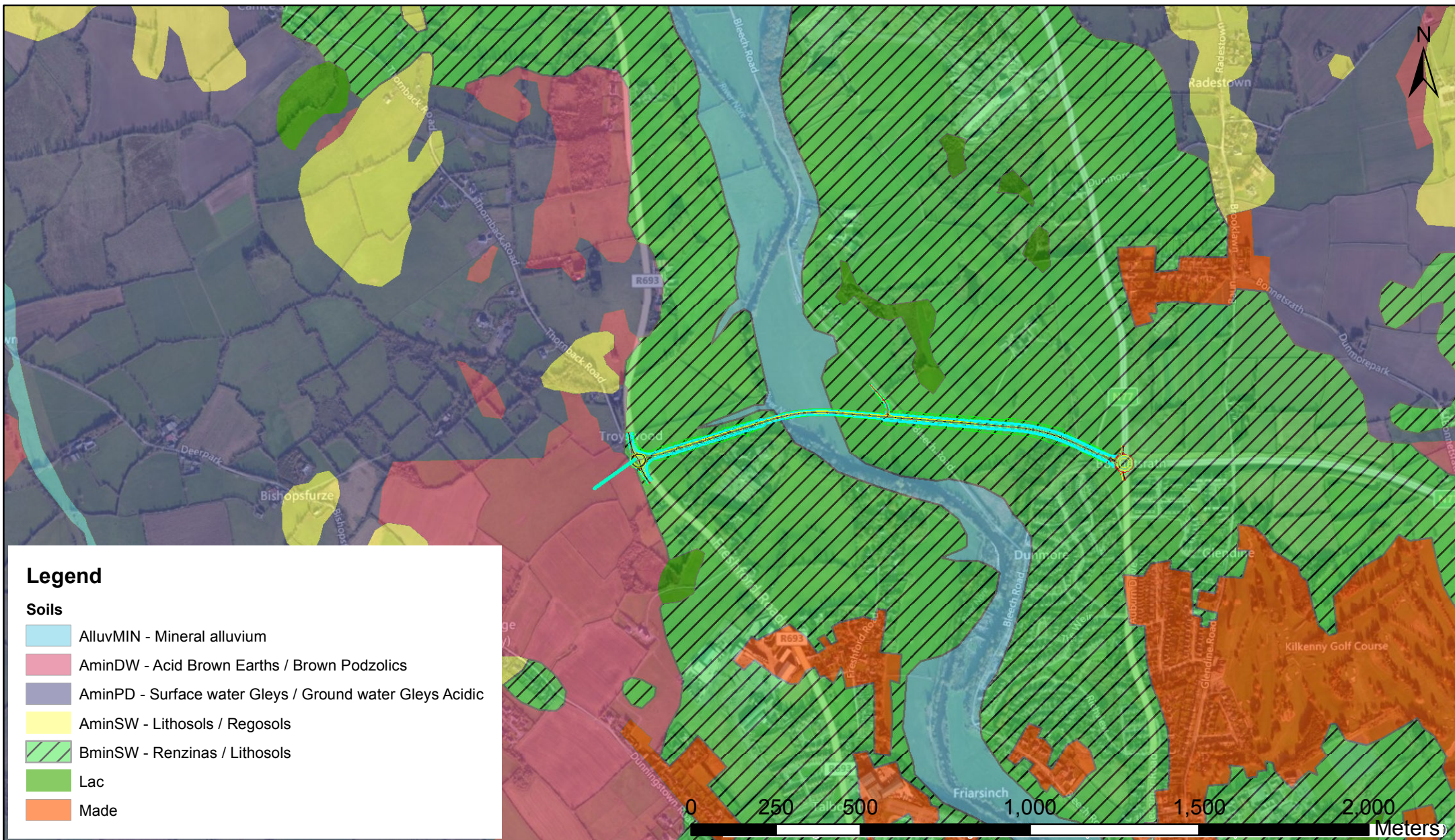
N77 Kilkenny Ring
Rd Extension

DRAWING TITLE:

Subsoils

REVISION DESCRIPTION

DRAWN	CHECKED	APPROVED	APPD DATE
D.C	D.B	D.B	01/02/2013
Figure 9.02		No. of Shs	SCALE
		1	1:15,000
DRAWING NUMBER		SHEET	REV



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Emerson Associates

PROJECT:

N77 Kilkenny Ring
Rd Extension

DRAWING TITLE:

Soils

REVISION DESCRIPTION

DRAWN

D.C

CHECKED

D.B

APPROVED

D.B

APPD DATE

01/02/2013

Figure 9.03

No. of Shts

1

SIZE

A4

SCALE

1:15,000

DRAWING NUMBER

SHEET REV



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Emerson Associates

PROJECT:

N77 Kilkenny Ring
Rd Extension

DRAWING TITLE:

Gravel Aquifer

REVISION DESCRIPTION

DRAWN	CHECKED	APPROVED	APPD DATE
D.C	D.B	D.B	01/02/2013
Figure 9.04a		No. of Shts	SCALE
		1	A4 1:15,000
DRAWING NUMBER		SHEET	REV



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CLIENT:

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Emerson Associates

PROJECT:

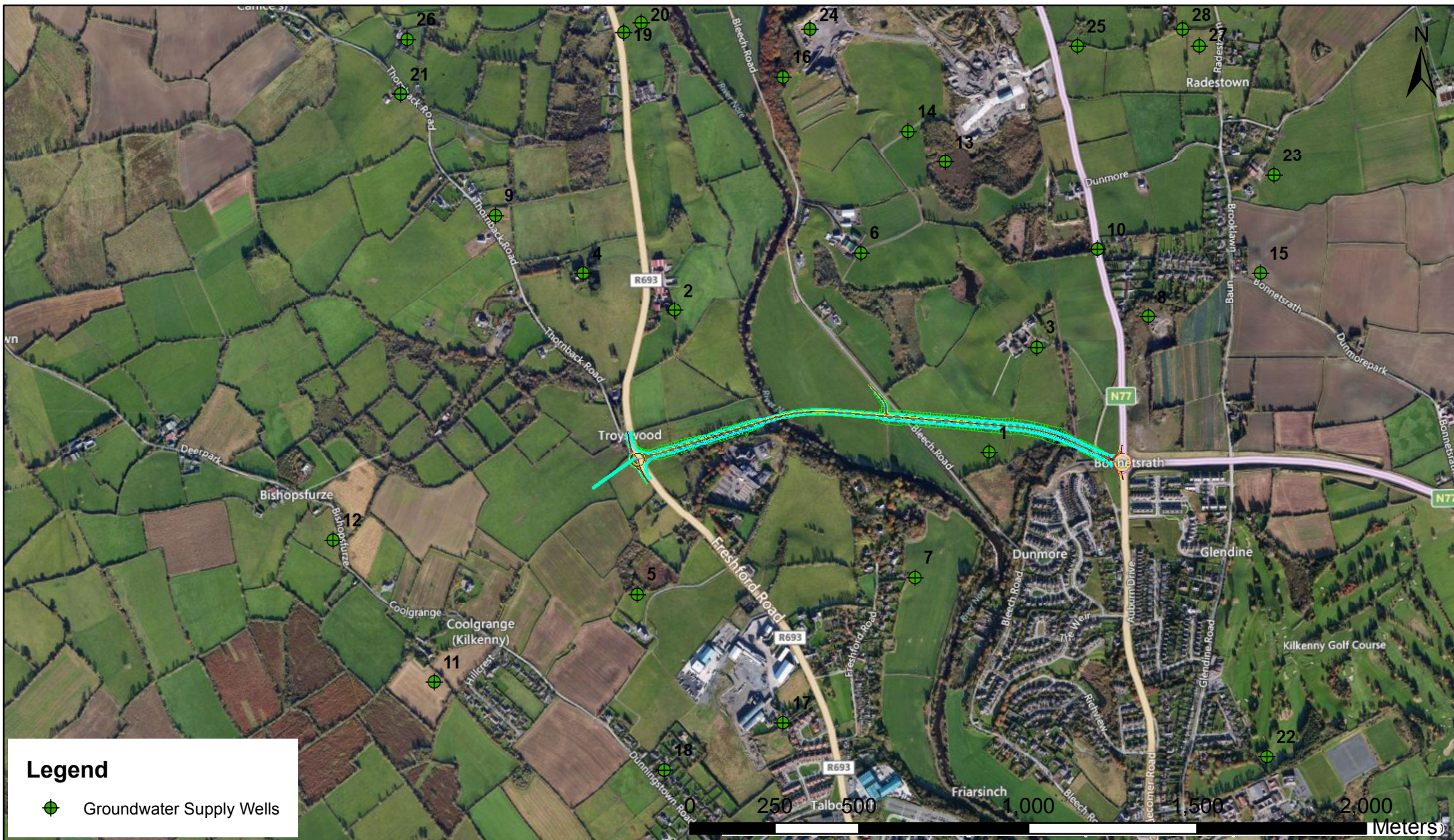
N77 Kilkenny Ring
Rd Extension

DRAWING TITLE:

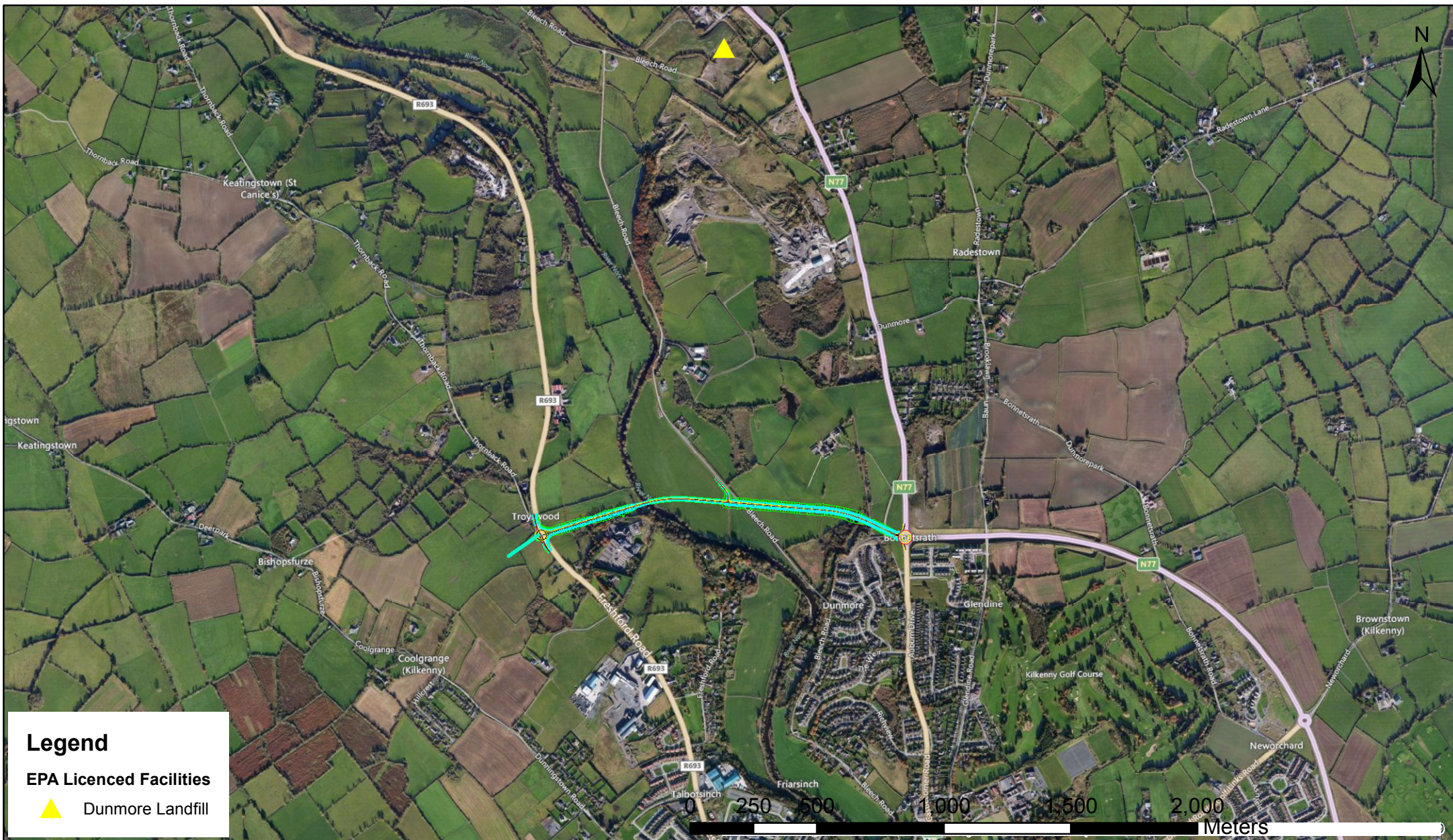
Aquifer Vulnerability

REVISION DESCRIPTION

DRAWN	CHECKED	APPROVED	APPD DATE
D.C	D.B	D.B	01/02/2013
Figure 9.05		No. of Shts	SCALE
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		PROJECT: N77 Kilkenny Ring Rd Extension		Figure 9.06		No. of Shts 1	SIZE A4
		REVISION DESCRIPTION	DRAWING NUMBER		SHEET	REV	



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PROJECT:

N77 Kilkenny Ring
Rd Extension

DRAWING TITLE:

EPA Licensed Facilities

REVISION DESCRIPTION

DRAWN	CHECKED	APPROVED	APPD DATE
D.C	D.B	D.B	01/02/2013
Figure 9.07		No. of ShTs	SCALE
		1	A4 1:20,000
DRAWING NUMBER		SHEET	REV



FIGURE 11.1

Noise Survey Locations,

FIGURE 11.2

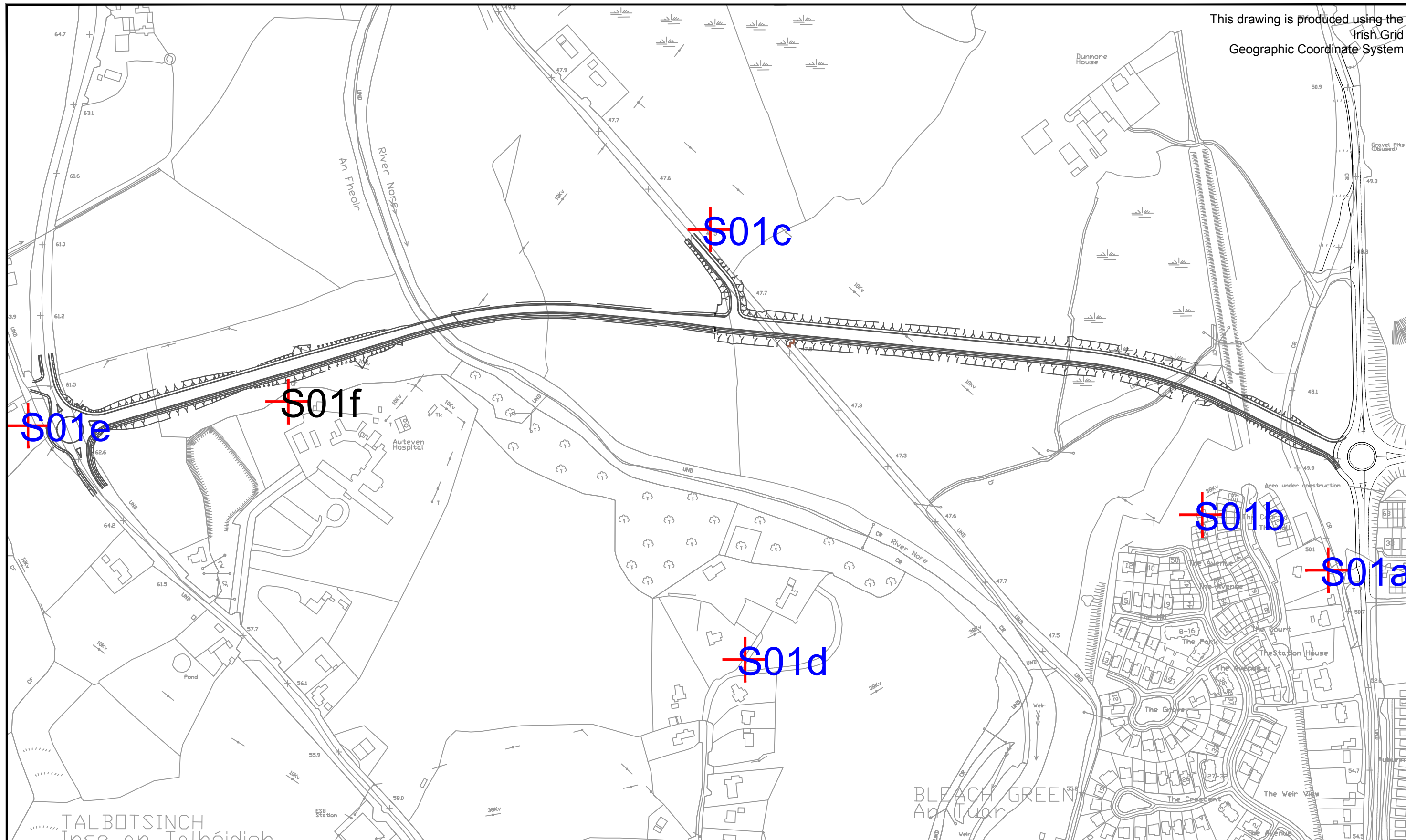
Assessment Receiver Locations

&

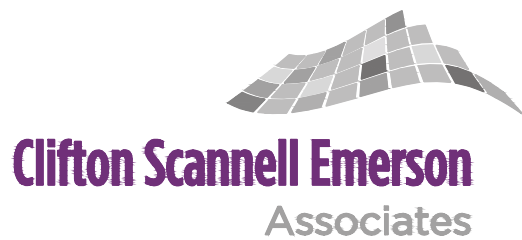
FIGURE 11.3

Noise Barrier Locations

This drawing is produced using the
Irish Grid
Geographic Coordinate System

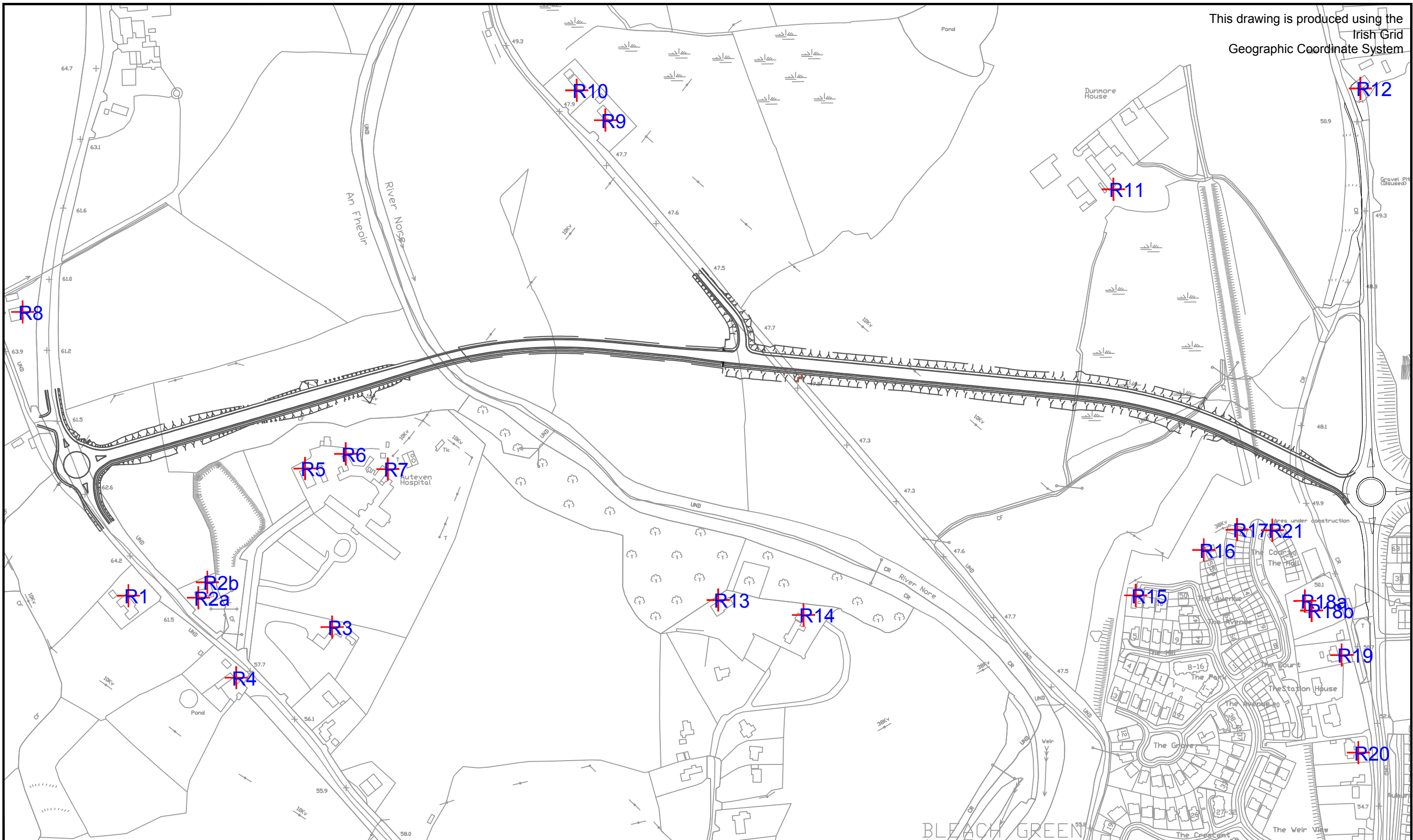


TALBOTSINCH
Inse an Talbóidigh



Project	Kilkenny Northern Ring Road Extension				
Dwg. Title	Noise Survey Locations				
Drawn By	SHP	Scale	1:4000 @ A3	Date	November 2013
Checked by	GE	Dwg. Progress	EIS Figure 11.1	Dwg. No.	07_088_051

This drawing is produced using the
Irish Grid
Geographic Coordinate System



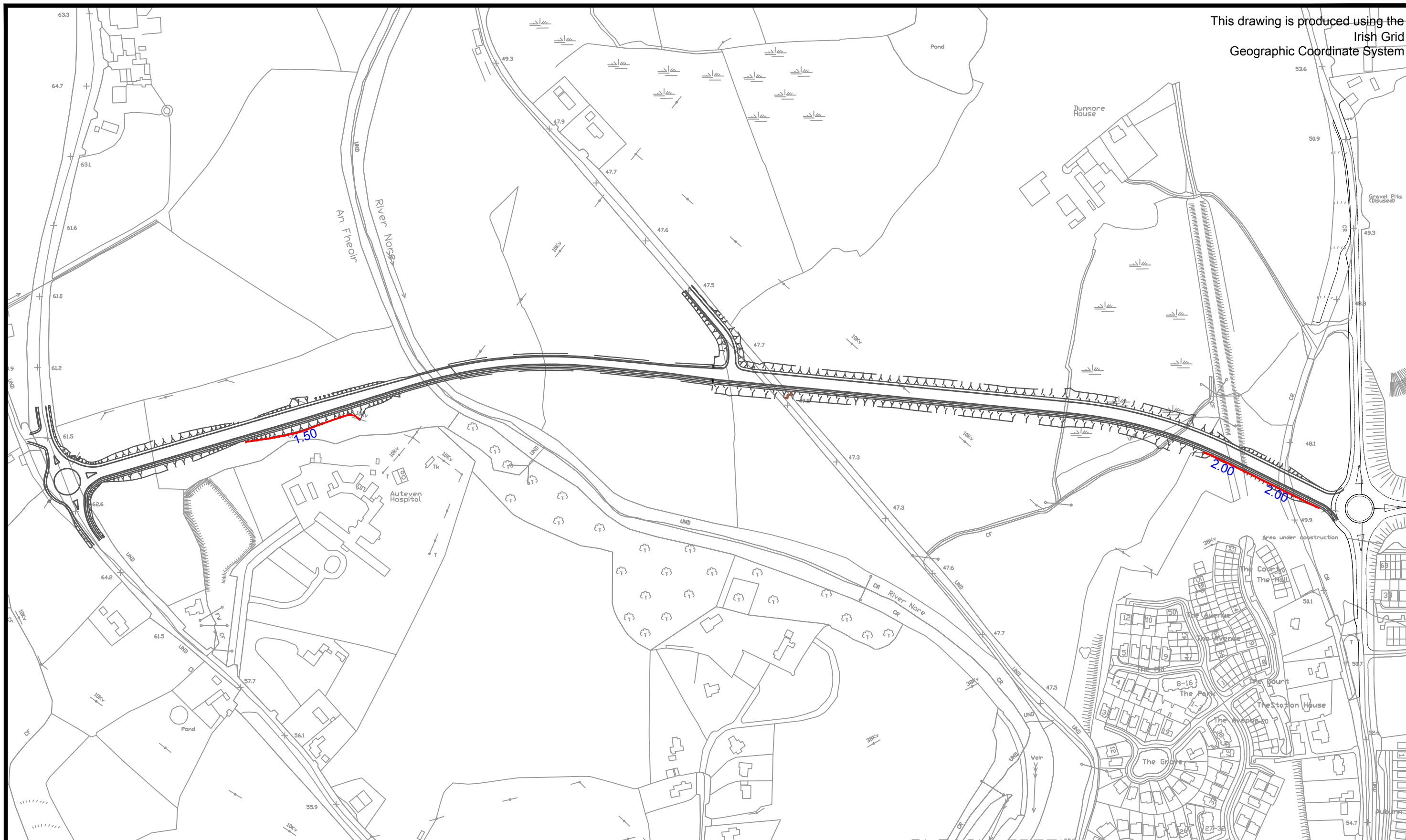


Clifton Scannell Emerson
Associates

Project	Kilkenny Northern Ring Road Extension				
Dwg. Title	Assessment Receiver Locations				
Drawn By	SP	Scale	1:4000 @ A3	Date	November 2013
Checked by	GE	Dwg. Progress	EIS Figure 11.2	Dwg. No.	07_088_052

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Inse an Talbóidigh



Project	Kilkenny Northern Ring Road Extension				
Dwg. Title	Noise Barrier Locations				
Drawn By	SP	Scale	1:4000 @ A3	Date	November 2013
Checked by	GE	Dwg. Progress	EIS Figure 11.3	Dwg. No.	07_088_053

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FIGURE 13.1

RMP Map for County Kilkenny,

FIGURE 13.2, 13.3 & 13.4

Extract of Survey Maps 1656, 1839 & 1900

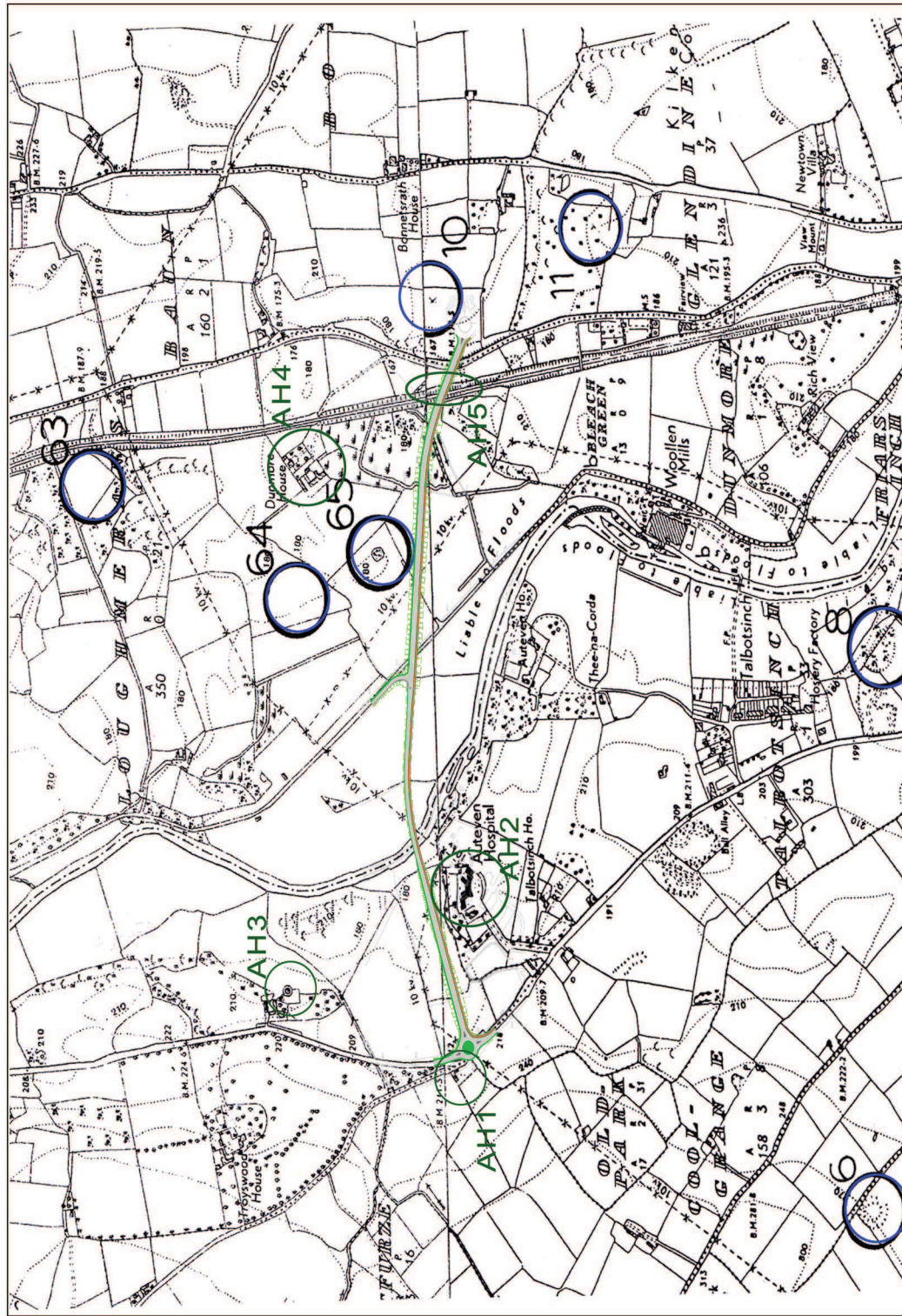
FIGURE 13.5

Aerial Photography showing proposed route

&

FIGURE 13.6

**Proposed route options for the Northern Ring
Road Extension**



Key:

Architectural Heritage
Features of Merit



AH3

Recorded
Archaeological
Monument (RMP Site)



KK014-065
Enclosure Site

COURTNEYDEERY
Heritage Consultancy

Project:

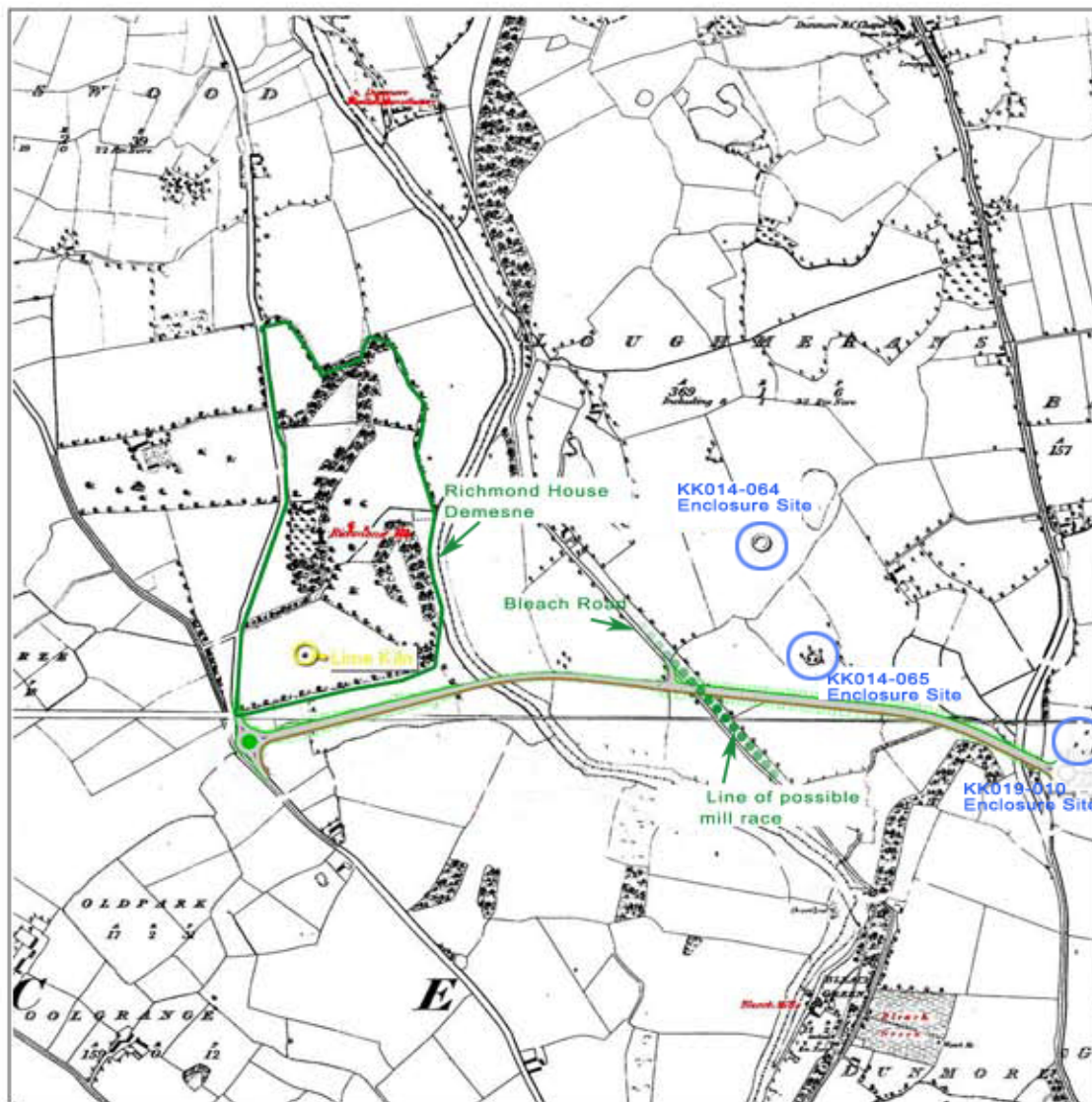
N77 Northern Ring Road Extension
Kilkenny, County Kilkenny

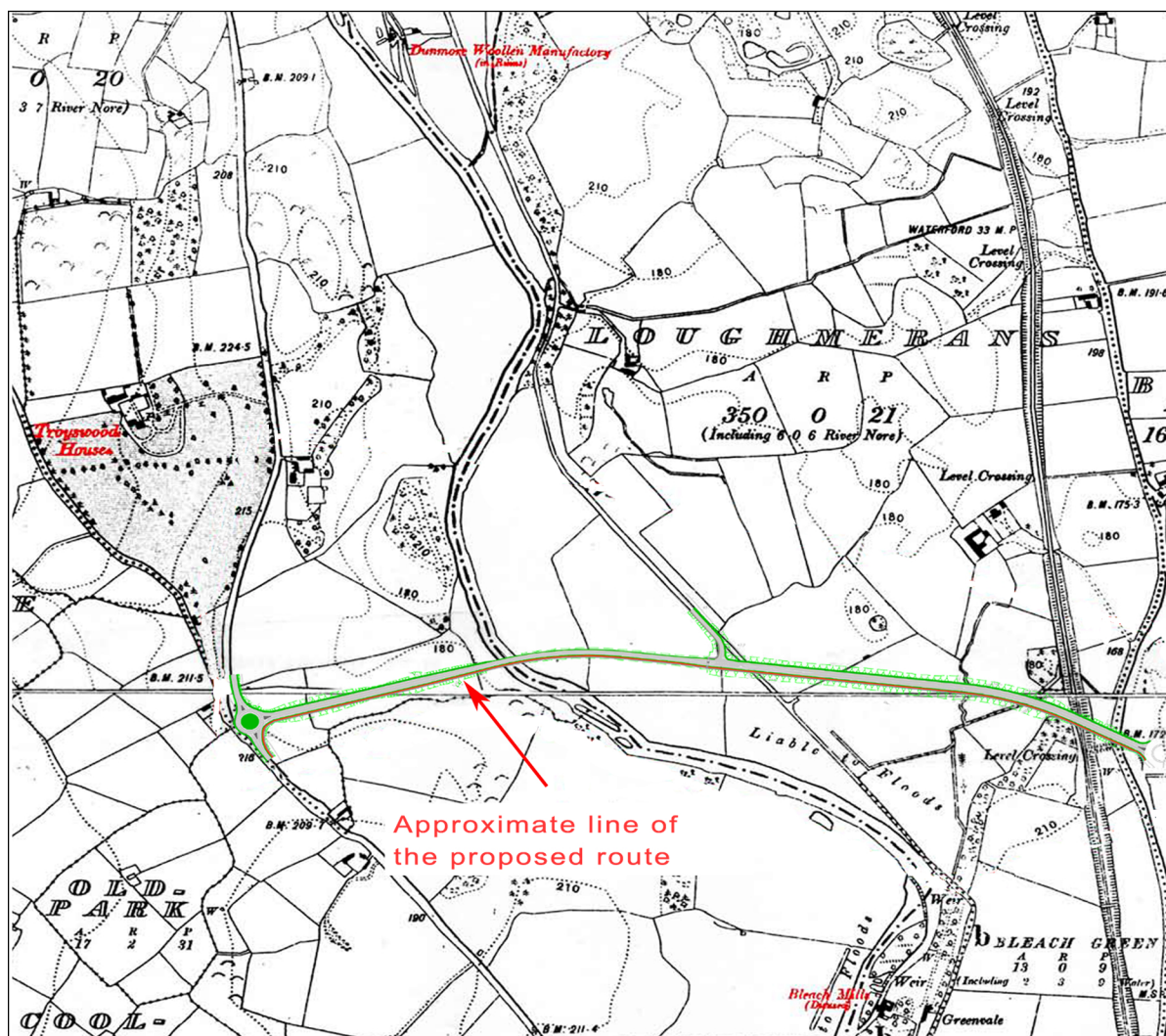
Date:

04-06-2013

Fig. 13.1:

RMP map for County Kilkenny, showing
site location and architectural heritage
features







Key:

Architectural
Heritage Feature

RMP Site

Field Number



AH3



KK014-065
Enclosure Site



Field
3

COURTNEYDEERY 
Heritage Consultancy

Project:

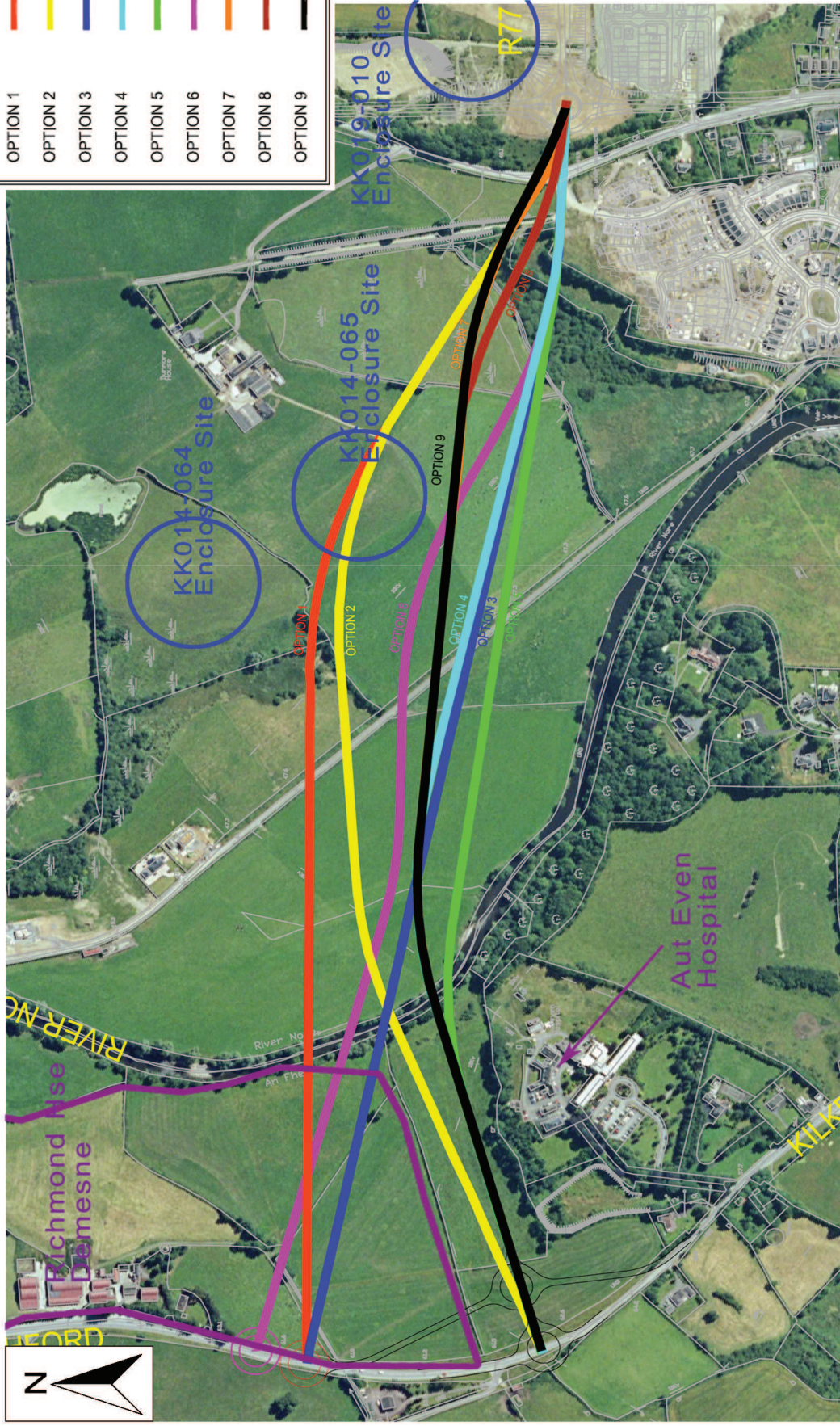
N77 Northern Ring Road Extension
Kilkenny, County Kilkenny

Date:

04-06-2013

Fig. 13.5:

Aerial photograph showing
the proposed route



LEGEND:

- OPTION 1
- OPTION 2
- OPTION 3
- OPTION 4
- OPTION 5
- OPTION 6
- OPTION 7
- OPTION 8
- OPTION 9

Project: N77 Northern Ring Road Extension
Kilkenny, County Kilkenny

Date: 04-06-2013

Fig. 13.6: Proposed route options for the
Northern Ring Road Extension

COURTNEYDEERY 
Heritage Consultancy



FIGURE 14.1

Proposed Land Take





PLATES 13.1 – 13.18

Architectural, Archaeological and Cultural Heritage Photographs



Plate 13.1 View east along the line of the proposed route through field 1 & 2 from the Freshford Road, with the former demesne boundary visible in foreground



Plate 13.2 View of the folly from field 2, looking north



Plate 13.3 View of River Nore from field 2, looking east



Plate 13.4 View of Auteven Hospital from the proposed route in field 2, looking south



Plate 13. 5 View of River Nore from the east bank in field 3



Plate 13.6 View along Bleach Road, looking south/southwest



Plate 13.7 View east along the proposed route through fields 3 & 4



Plate 13.8 View southeast along possible remains of mill-race in field 5



Plate 13.9 View of recorded enclosure site KK014-065 from proposed route in field 5, looking north/northeast



Plate 13.10 View west along the proposed route through fields 5 & 6, with recorded enclosure site KK014-065 on ridge at right side of photo



Plate 13.11 View of recorded enclosure site KK014-065 from proposed route in field 6, looking north/northwest



Plate 13.12 Farm complex AH 4 viewed from the proposed route



Plate 13.13 Laneway along the top of the railway embankment, looking north/northwest



Plate 13.14 View of surviving underpass of former GSWR railway at Dunmore House



Plate 13.15 Field 7, looking north from proposed route



Plate 13.16 Derelict cottage and outbuilding AH 1, looking west



Plate 13.17 Farm complex AH 4 – view of house from south



Plate 13.18 Farm complex AH 4 – view of farm buildings from southeast

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