

**LEGEND**

— PROPOSED SCHEME

**KEYPLAN**

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County Hall,  
Carrigrohane Road  
Co. Cork

E. Flynn B.Eng., C.Eng., F. I. E. I.  
County Engineer

Issue	by	chkd.	app.	date	
T1	GP	FL	TC	JAN 07	FIRST ISSUE
T2	GP	FL	TC	MAY 08	SECOND ISSUE
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Design:	C. CURTIN	Check:	F. LAGAN
Drawn:	J. BOWEN	Approved:	T. CARRIER
FILE NAME:	V501-NE02426-NED-14		

**PROJECT**  
N22 BAILE BHUIRNE - MACROOM  
(BAILE BHUIRNE TO COOLCOURCEY)

**DRAWING TITLE**  
FIGURE 5.1 GENERAL HORIZONTAL  
LAYOUT - PRELIMINARY DESIGN  
(SHEET 1 OF 2)

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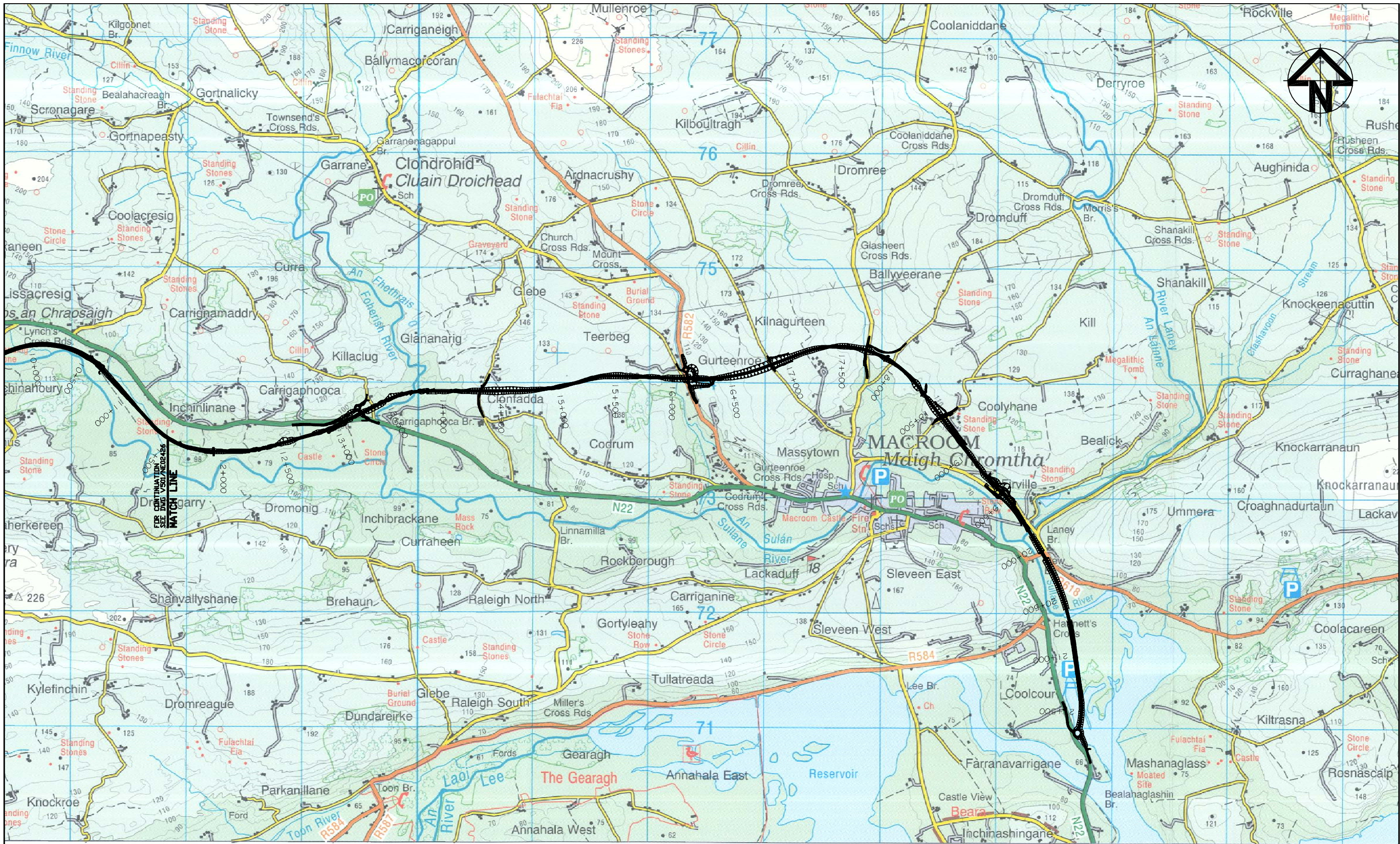
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DRAWING NO: V501-NE02426-NED-01  
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**LEGEND**

— PROPOSED SCHEME

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Design	C. CURTIN	Checked	F. LAGAN
Drawn	J. BOWEN	Approved	T. CARTER
FILE NAME	V502-NE02426-NED-14		

**PROJECT**  
N22 BAILE BHUIRNE - MACROOM  
(BAILE BHUIRNE TO COOLCOUR)

**DRAWING TITLE**  
FIGURE 5.1 GENERAL HORIZONTAL  
LAYOUT - PRELIMINARY DESIGN  
(SHEET 2 OF 2)

DATE: NOV 08  
SCALE: 1:30000 (A3)

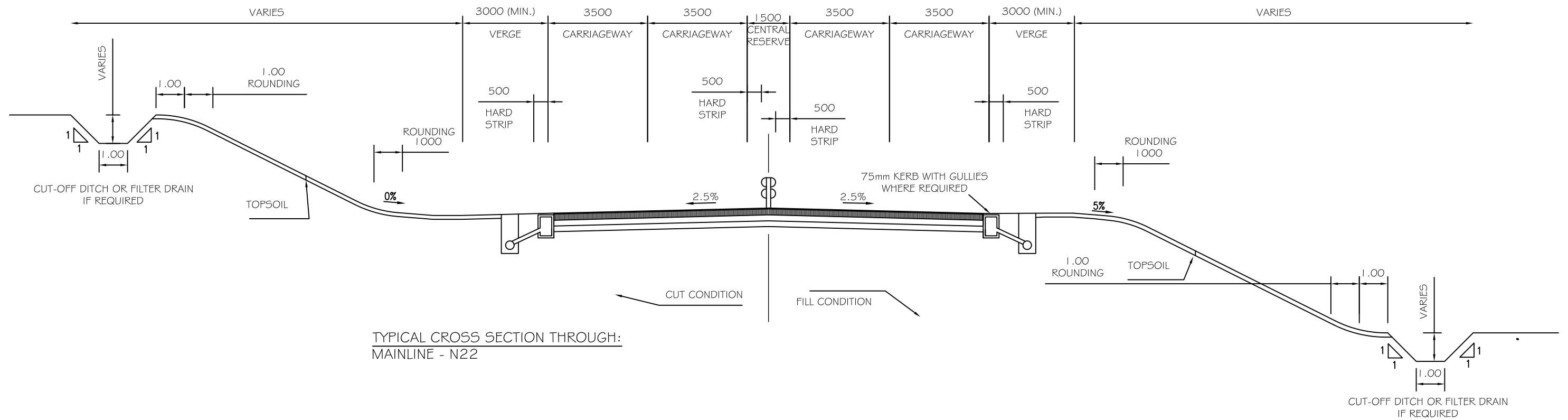
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TYPICAL CROSS SECTION THROUGH:  
MAINLINE - N22

### TYPE 2 DUAL CARRIAGEWAY

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Design	F. LAGAN	Checked	F. LAGAN
Drawn	J. BOWEN	Approved	T. CARTER
FILE NAME	V503-NE02426-T4		

PROJECT  
N22 BAILE BHUIRNE - MACROOM  
[BAILE BHUIRNE TO COOLCOUR]

DRAWING TITLE  
FIGURE 5.2  
TYPICAL TYPE 2 DUAL CARRIAGEWAY  
CROSS SECTION

DATE  
NOV 08

SCALES  
NOT TO SCALE

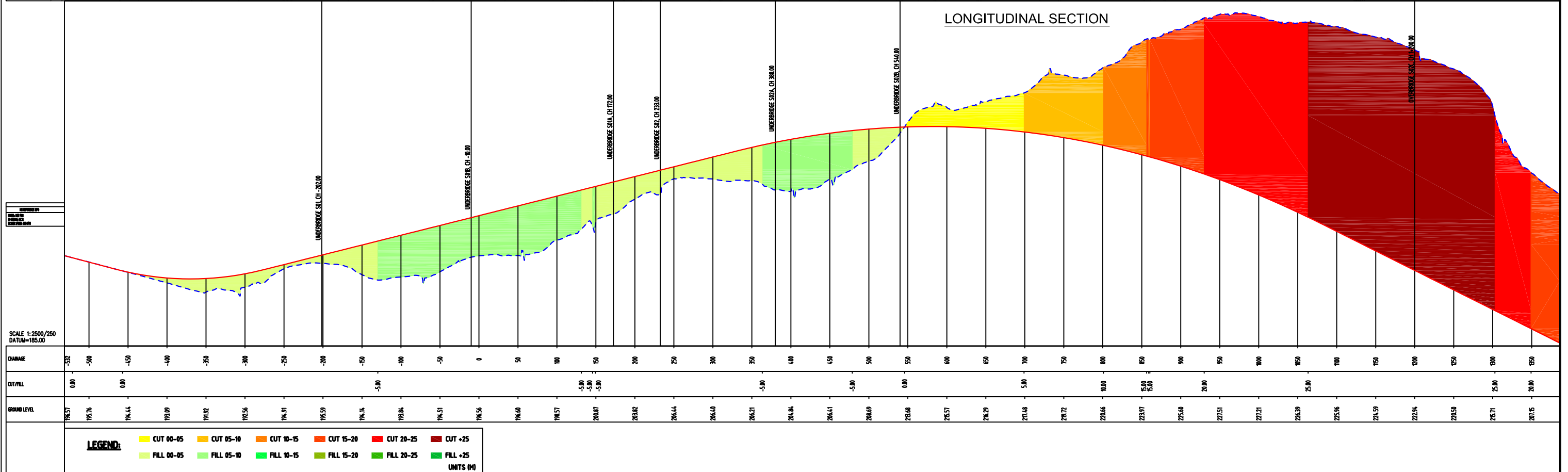
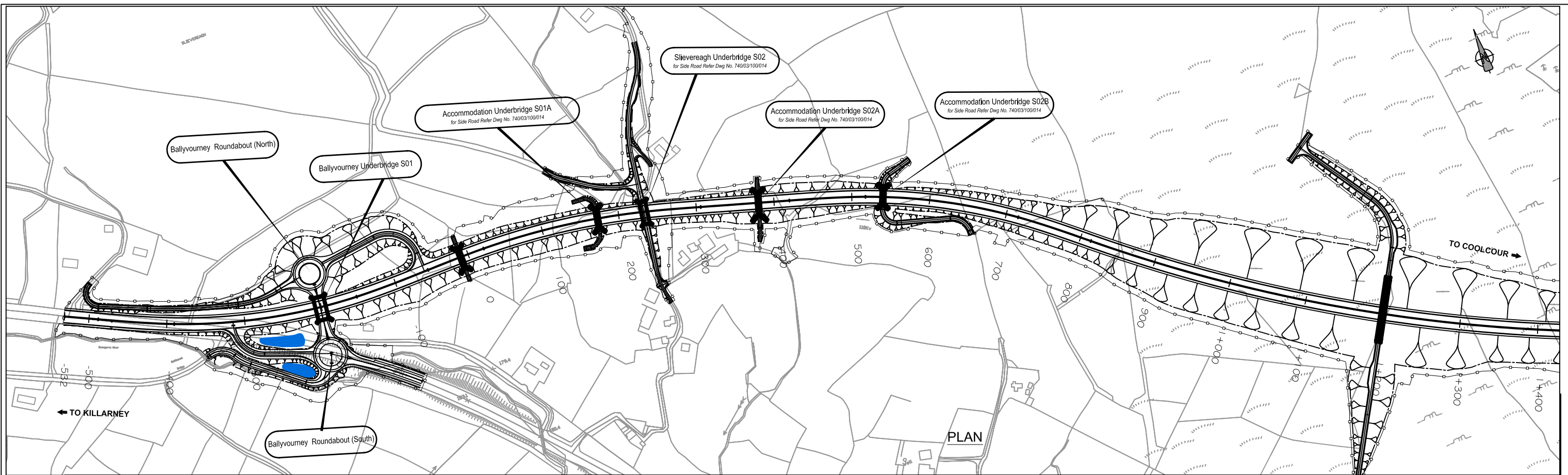
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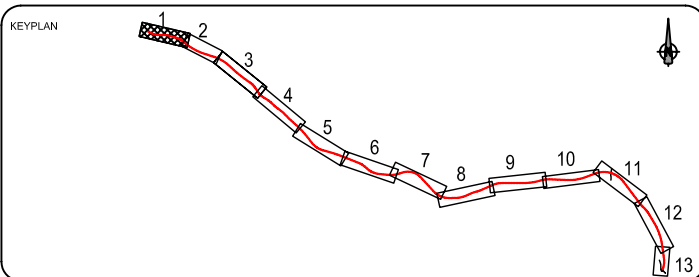
LEGEND

FENCE LINE

LONGITUDINAL PROFILE LEGEND

CONCEPTUAL DESIGN

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Design	SR	Checked	DD
Drawn	SR	Approved	DD

FILE NAME

V512-NEO2426-T4.dwg

PROJECT

N22 BAILE BHUIRNE - MACROOM  
[BAILE BHUIRNE TO COOLCOUR]

DRAWING TITLE

Figure 5.3  
Mainline Geometric Plan & Profile  
Ch. Km. -532 to Km. +350  
Sheet 1 of 13

DATE

SEPT 2008

SCALE

Horizontal 1:2500 @ A1  
Vertical 2500/250 @ A1

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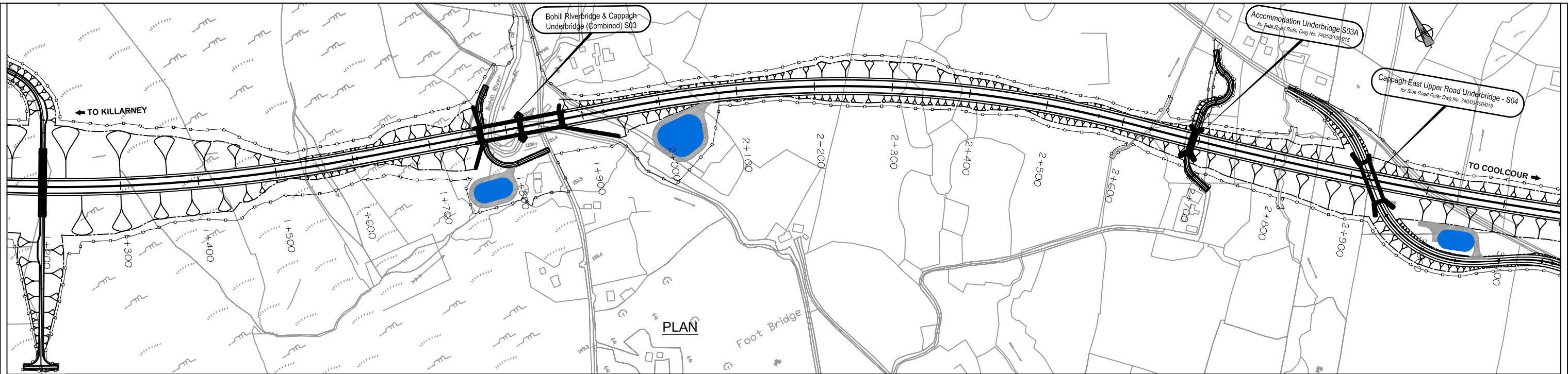
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T5

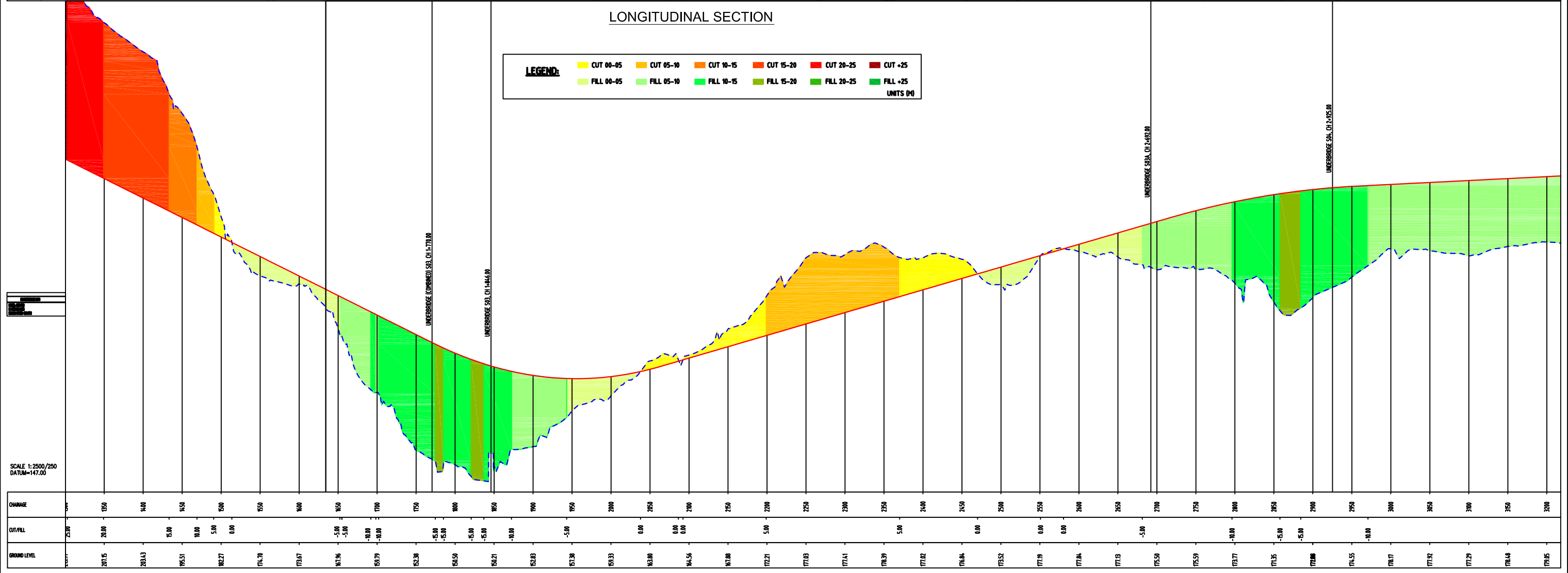


### LONGITUDINAL SECTION

**LEGEND:**

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FILL 00-05	FILL 05-10	FILL 10-15	FILL 15-20	FILL 20-25	FILL +25

UNITS (M)



**LEGEND**

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LONGITUDINAL PROFILE LEGEND

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T5	CLM	FL	TC	JUN 09	FIFTH ISSUE

Design	SW	Checked	DD
Draw	SR	Approved	DD
FILE NAME	V5 I2-NE02426-T4.dwg		

PROJECT  
N22 BAILE BHUIRNE - MACROOM  
[BAILE BHUIRNE TO COOLCOUR]

DRAWING TITLE  
Figure 5.3  
Mainline Geometric Plan & Profile  
Ch. Km. 1+350 to Km. 3+100  
Sheet 2 of 13

DATE  
SEPT 2008

SCALE  
Horizontal 1:2500 @ A1  
Vertical 2500/250 @ A1

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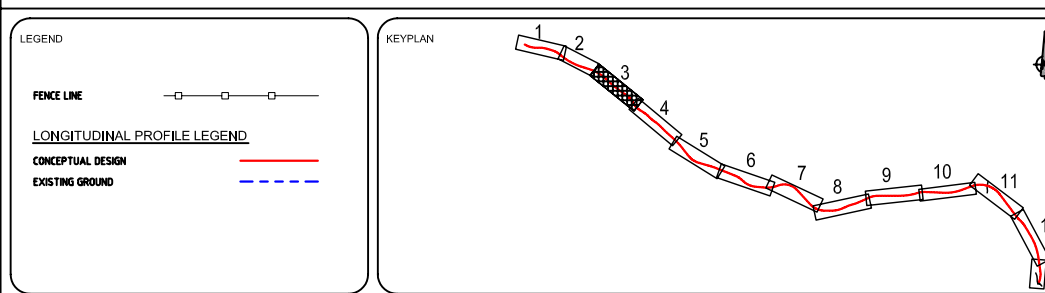
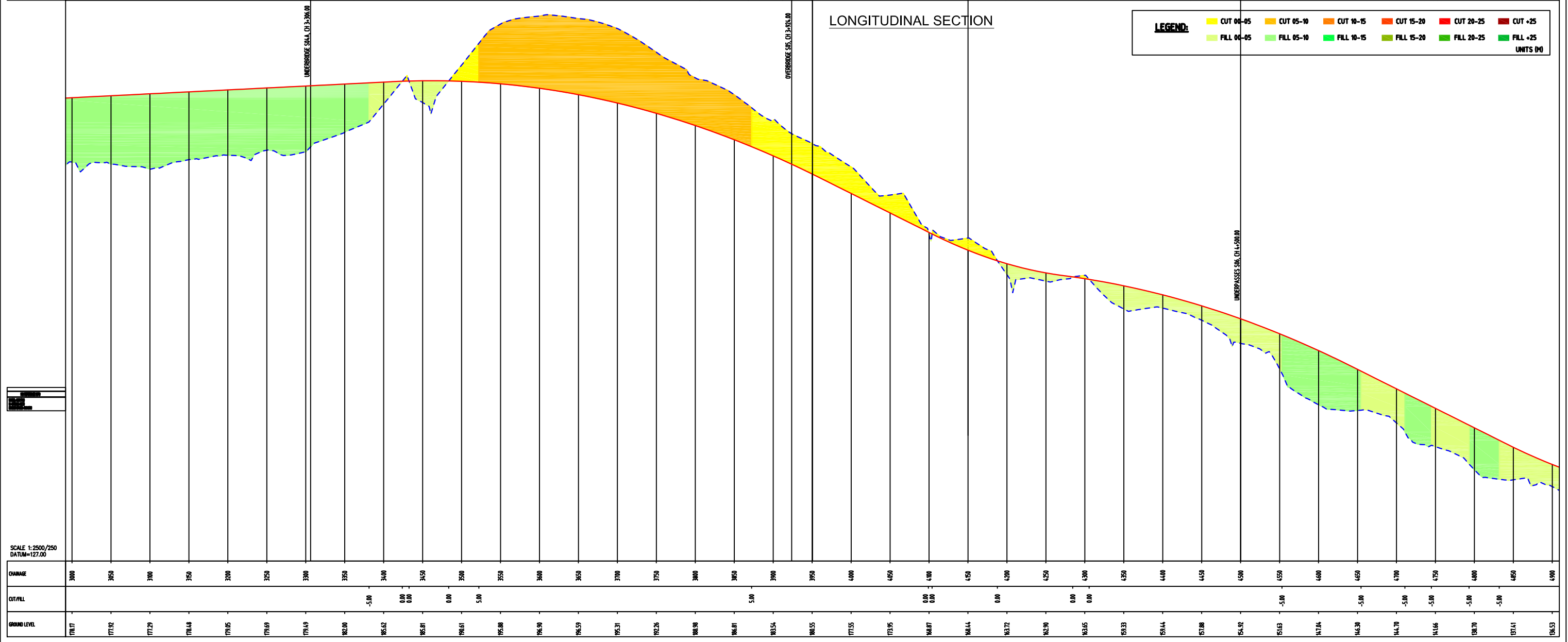
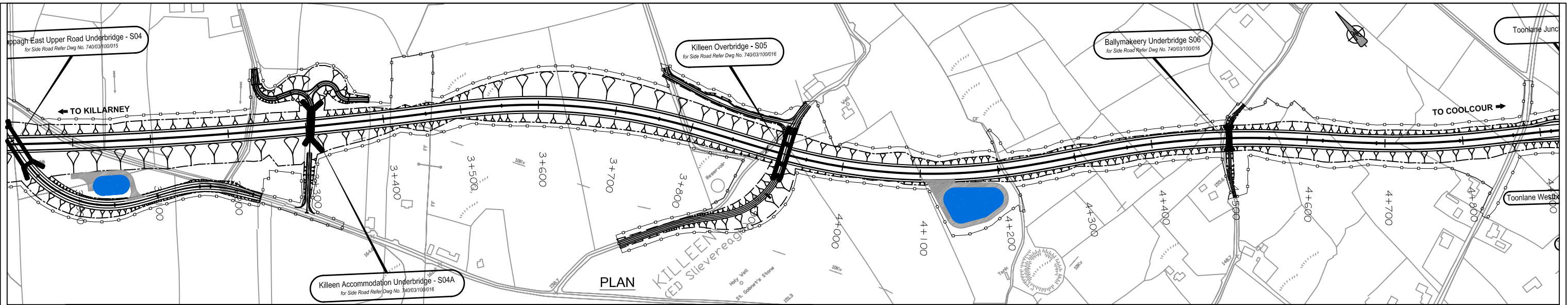
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An Roinn Iompair

progress in motion

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T5	CLM	FL	TC	JUN 09	FIFTH ISSUE

**PROJECT**

N22 BAILE BHUIRNE - MACROOM  
[BAILE BHUIRNE TO COOLCOUR]

**DRAWING TITLE**

Figure 5.3  
Mainline Geometric Plan & Profile  
Ch. Km. 3+100 to Km. 4+800  
Sheet 3 of 13

**DATE**

SEPT 2008

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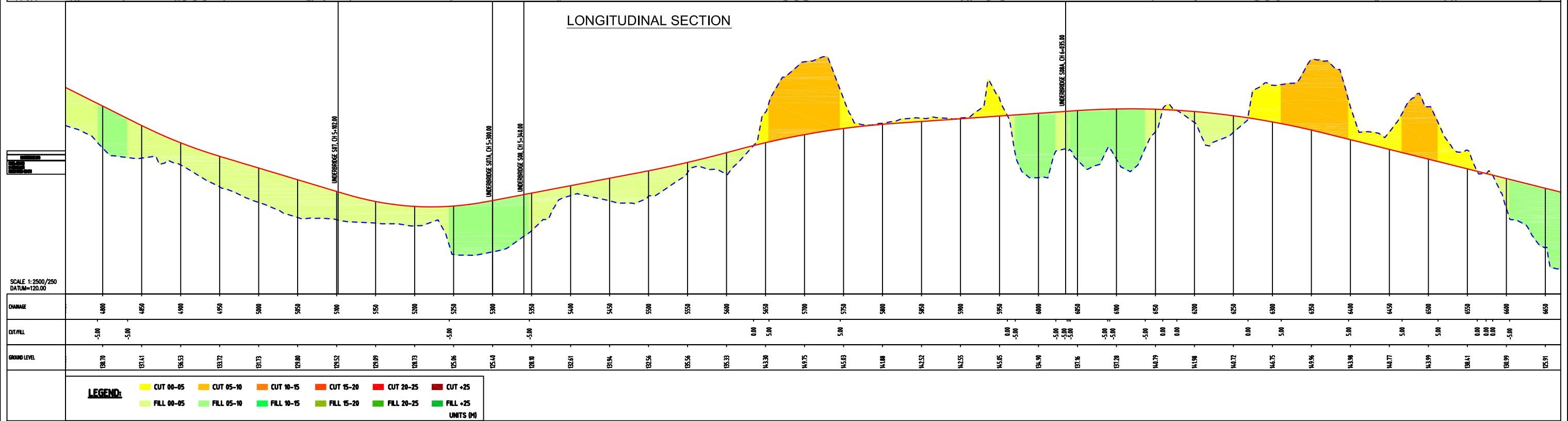
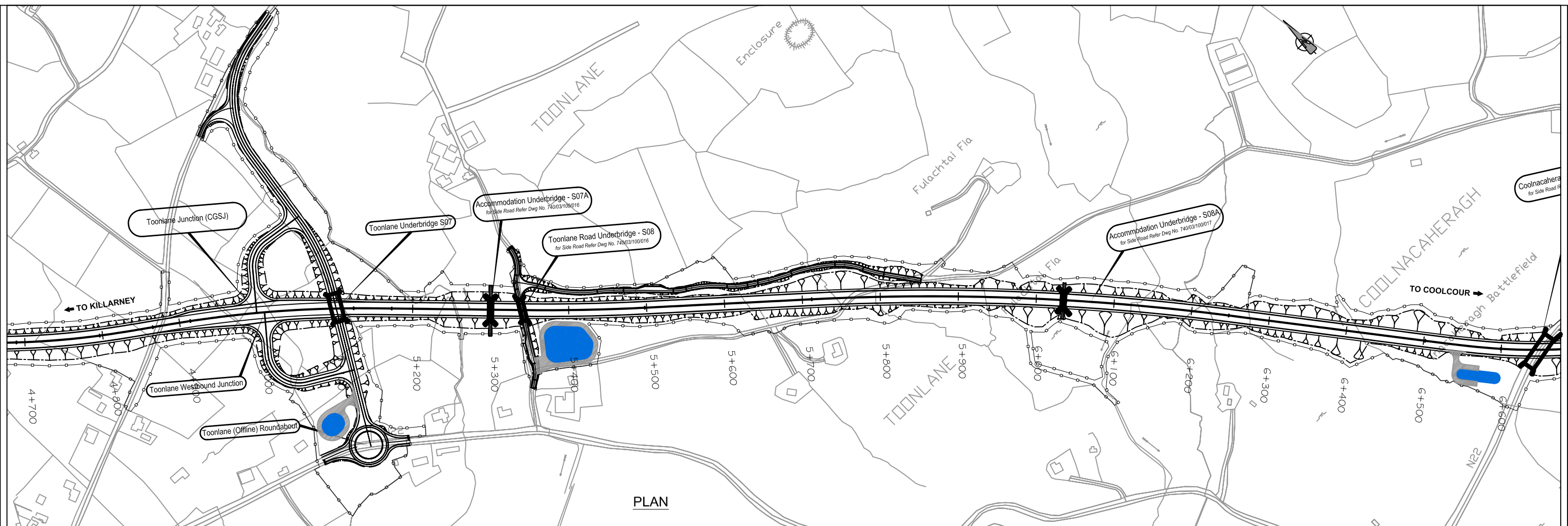
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V5 I2-NEO2426-NED-01

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T5



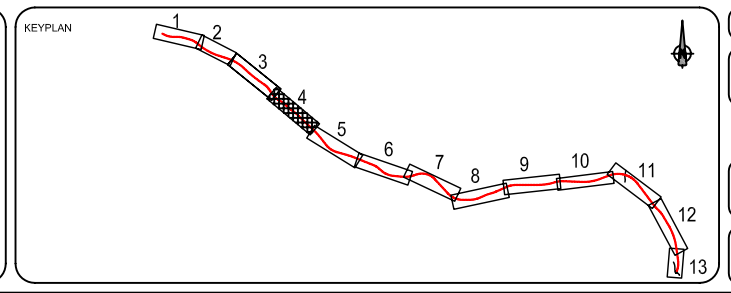
**LEGEND**

FENCE LINE:

**LONGITUDINAL PROFILE LEGEND**

CONCEPTUAL DESIGN:

EXISTING GROUND:



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Design	SW	Checked	DD
Drawn	SR	Approved	DD

FILE NAME: V512-NE02426-T4.dwg

**PROJECT**  
N22 BAILE BHUIRNE - MACROOM  
[BAILE BHUIRNE TO COOLCOUR]

**DRAWING TITLE**  
Figure 5.3  
Mainline Geometric Plan & Profile  
Ch. Km. 4+800 to Km. 6+600  
Sheet 4 of 13

DATE: SEPT 2008

SCALES: Horizontal 1:2500 @ A1  
Vertical 2500/250 @ A1

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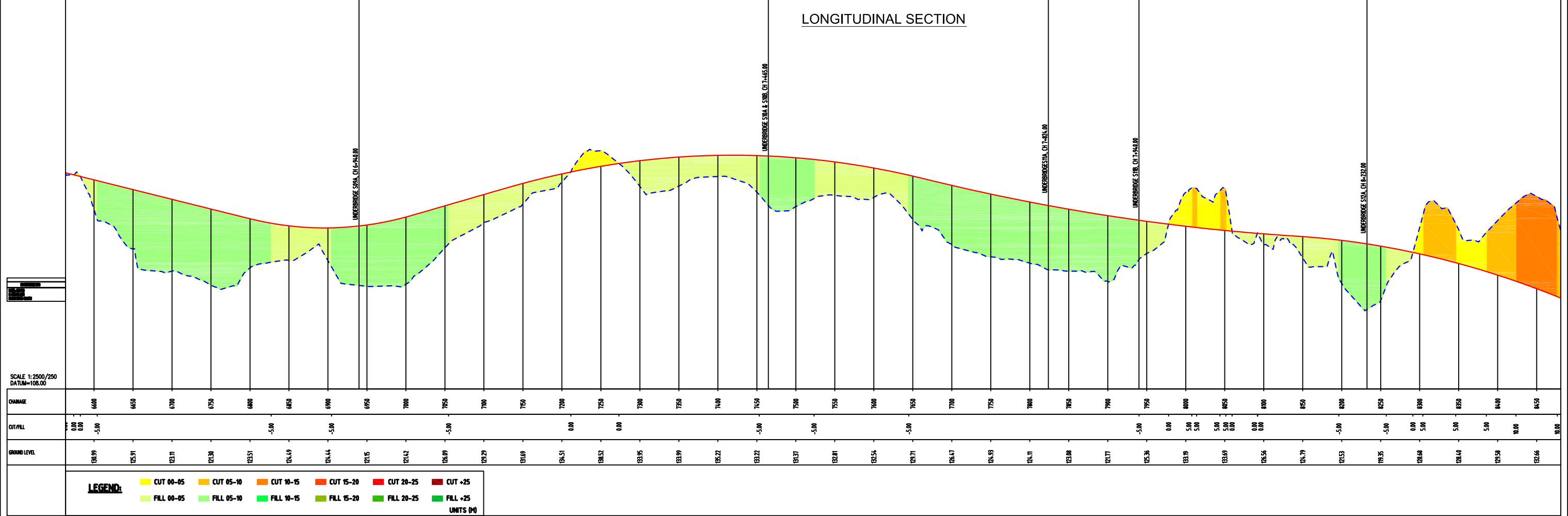
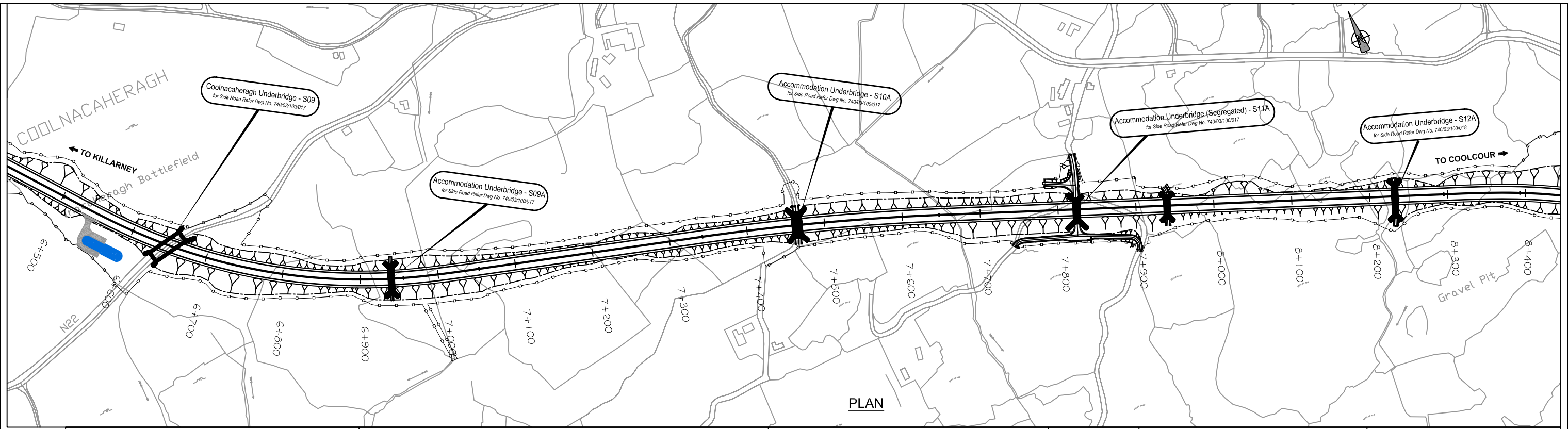
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ISSUE T5



**LEGEND**

FENCE LINE

**LONGITUDINAL PROFILE LEGEND**

CONCEPTUAL DESIGN

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**KEYPLAN**

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Design	SW	Checked	DD
Drawn	SR	Approved	DD

FILE NAME  
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PROJECT  
**N22 BAILE BHUIRNE - MACROOM**  
[BAILE BHUIRNE TO COOLCOUR]

DRAWING TITLE  
**Figure 5.3**  
**Mainline Geometric Plan & Profile**  
Ch. Km. 6+600 to Km. 8+300  
Sheet 5 of 13

DATE  
SEPT 2008

SCALES  
Horizontal 1:2500 @ A1  
Vertical 2500/250 @ A1

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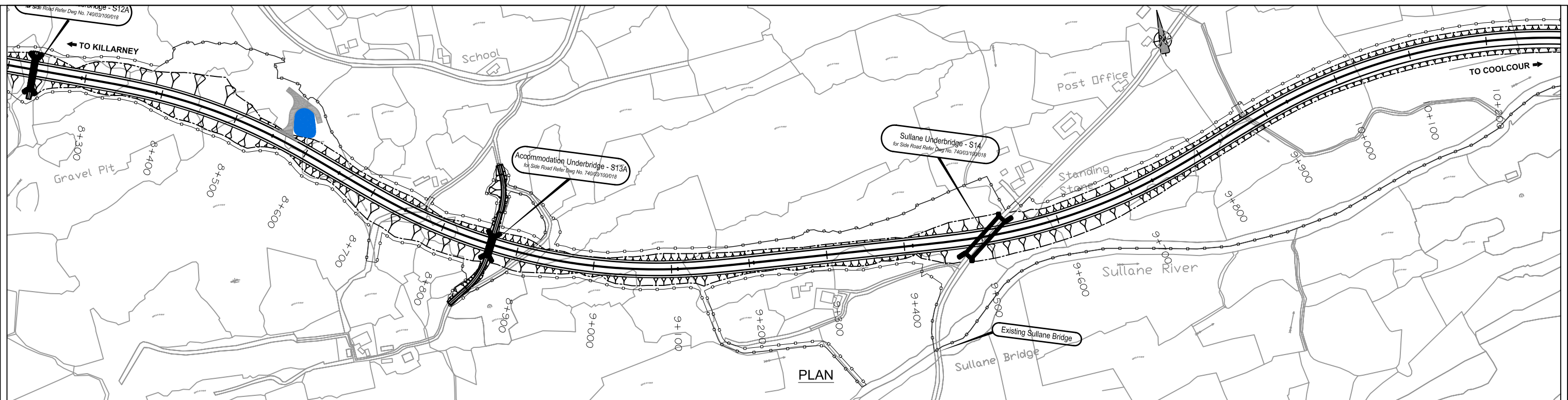
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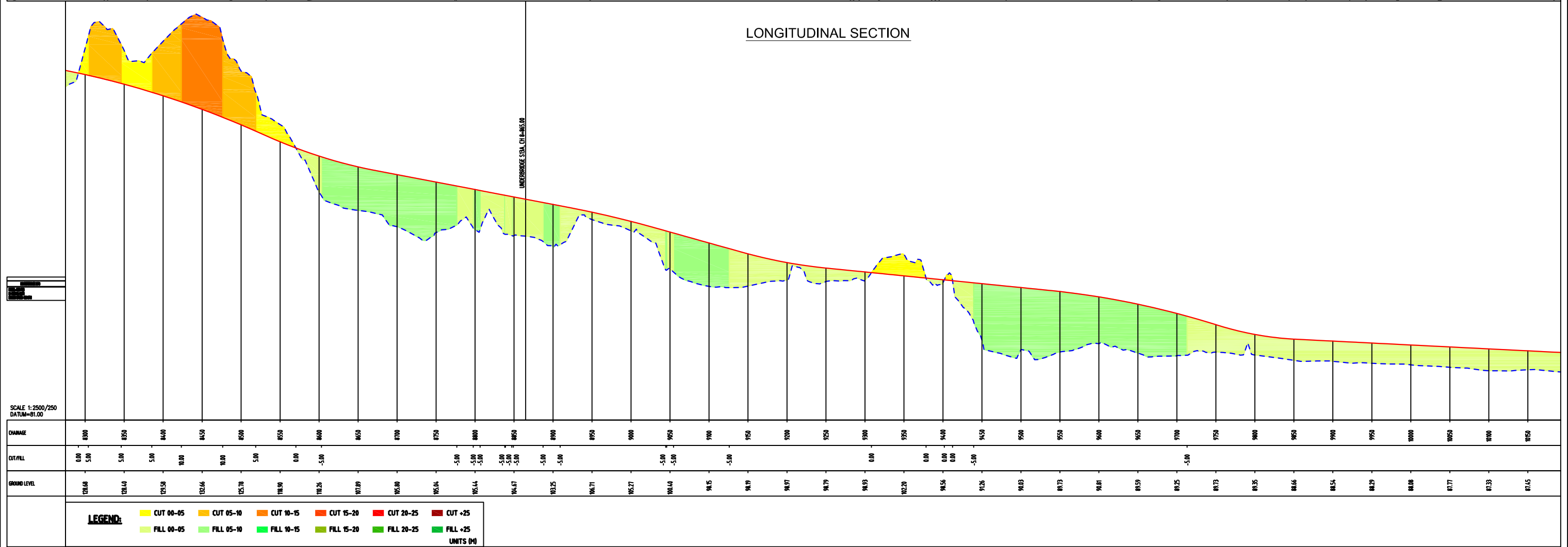
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**V512-NE02426-NED-01**

ISSUE  
**T5**





LONGITUDINAL SECTION



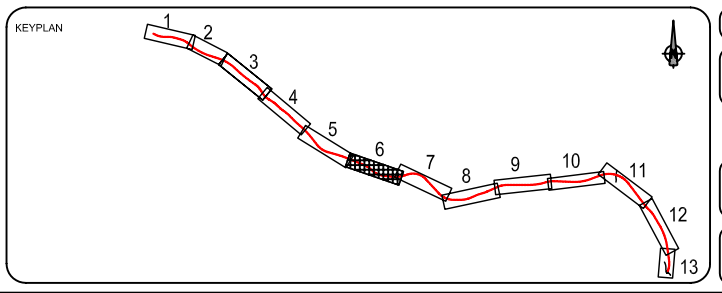
**LEGEND**

FENCE LINE

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CONCEPTUAL DESIGN

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Design	SW	Checked	DD
Draw	SR	Approved	DD

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**PROJECT**  
N22 BAILE BHUIRNE - MACROOM  
[BAILE BHUIRNE TO COOLCOUR]

**DRAWING TITLE**  
Figure 5.3  
Mainline Geometric Plan & Profile  
Ch. Km. 8+300 to Km. 10+100  
Sheet 6 of 13

DATE: SEPT 2008

SCALE: Horizontal 1:2500 @ A1  
Vertical 2500/250 @ A1

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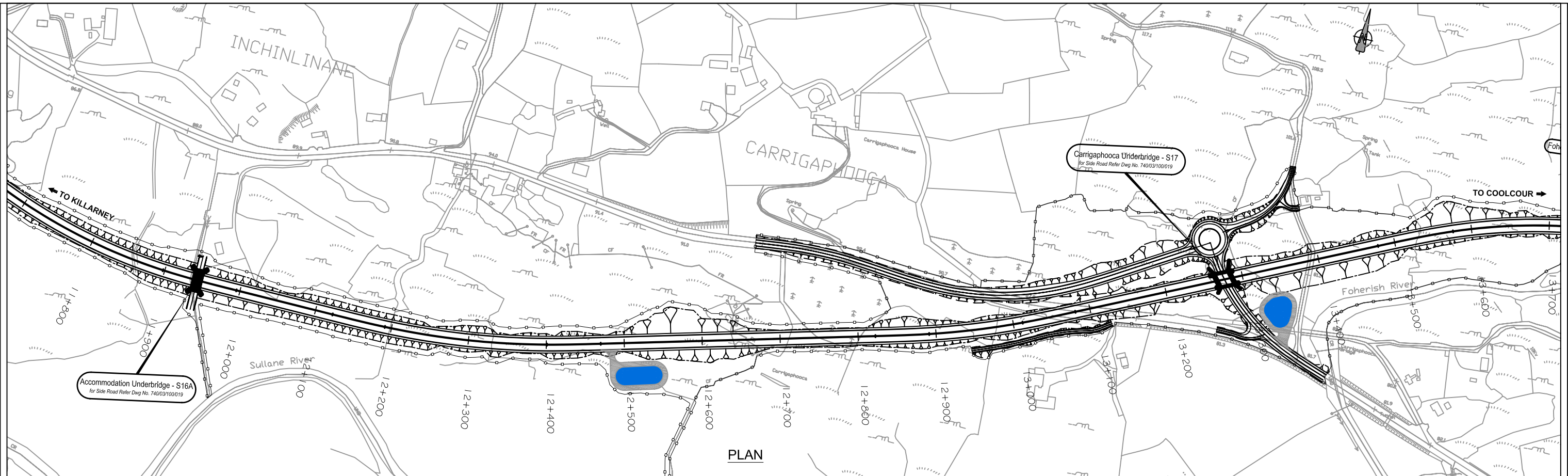
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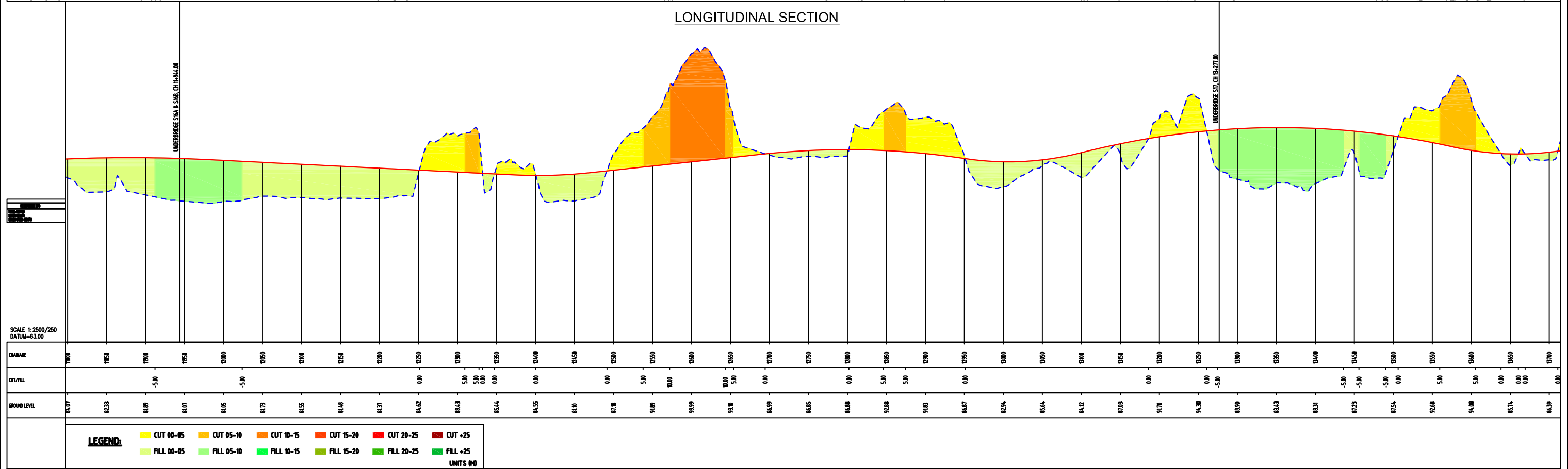
ISSUE T5





PLAN

LONGITUDINAL SECTION



**LEGEND:**

CUT 00-05	CUT 05-10	CUT 10-15	CUT 15-20	CUT 20-25	CUT +25
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UNITS (M)

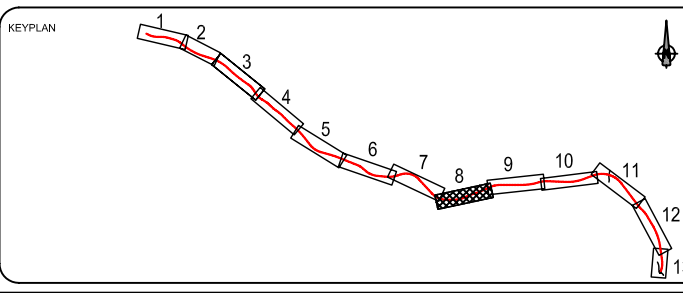
**LEGEND**

FENCE LINE

LONGITUDINAL PROFILE LEGEND

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T5	CLM	FL	TC	JUN 09	FIFTH ISSUE

Design	SW	Checked	DD
Drawn	SR	Approved	DD

FILE NAME  
V5 I2-NE02426-T4.dwg

PROJECT  
N22 BAILE BHUIRNE - MACROOM  
[BAILE BHUIRNE TO COOLCOUR]

DRAWING TITLE  
Figure 5.3  
Mainline Geometric Plan & Profile  
Ch. Km. 11+850 to Km. 13+650  
Sheet 8 of 13

DATE  
SEPT 2008

SCALES  
Horizontal 1:2500 @ A1  
Vertical 2500/250 @ A1

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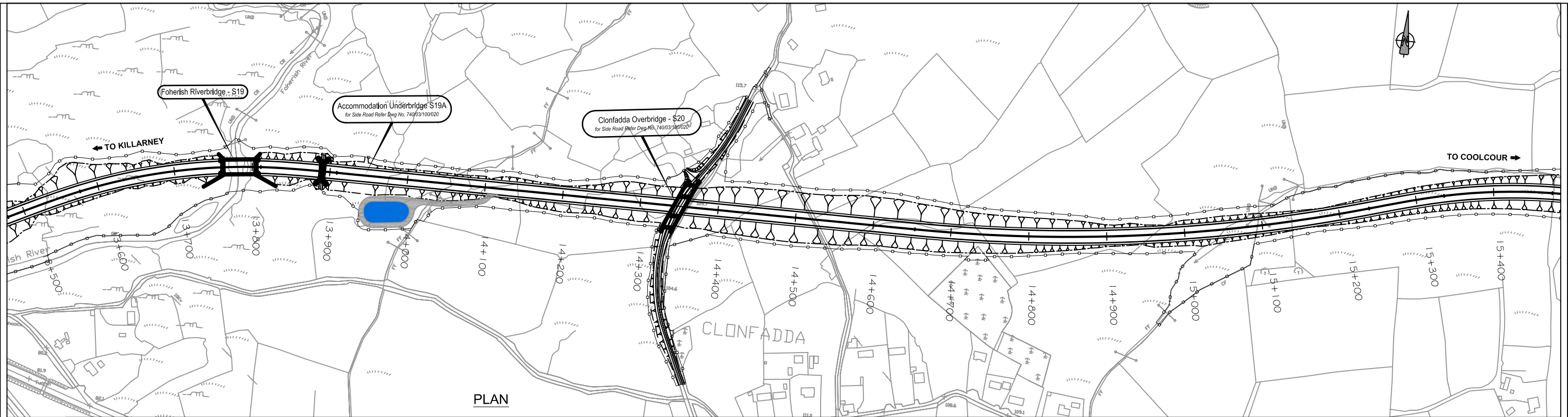
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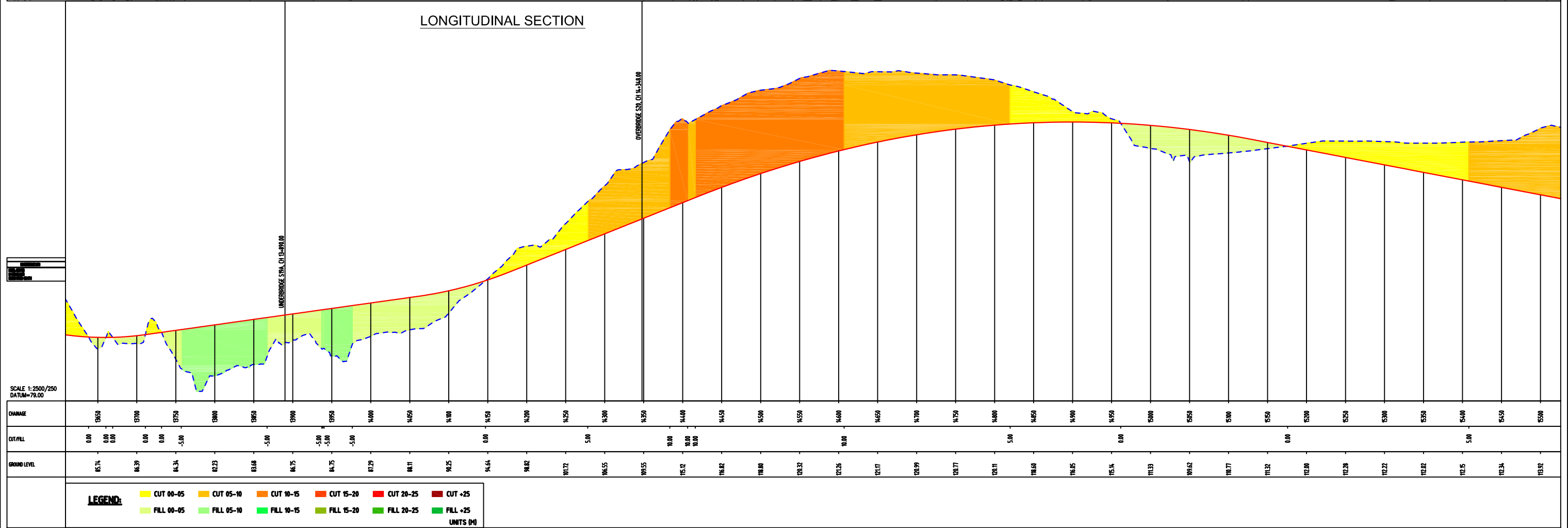
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LONGITUDINAL SECTION



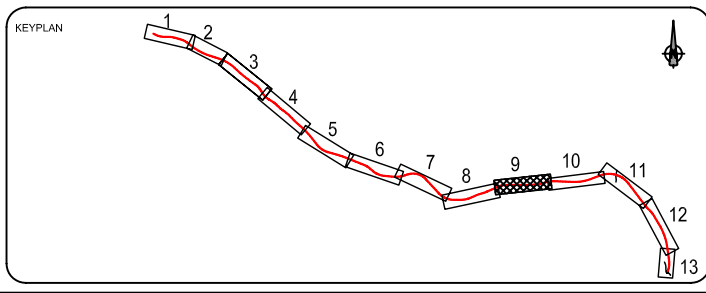
LEGEND

FENCE LINE

LONGITUDINAL PROFILE LEGEND

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T4	PS	FL	TC	NOV 08	FOURTH ISSUE
T5	CLM	FL	TC	JUN 09	FIFTH ISSUE

Design	SW	Checked	DD
Draw	SR	Approved	DD

FILE NAME  
V512-NE02426-T4.dwg

PROJECT  
N22 BAILE BHUIRNE - MACROOM  
[BAILE BHUIRNE TO COOLCOUR]

DRAWING TITLE  
Figure 5.3  
Mainline Geometric Plan & Profile  
Ch. Km. 13+650 to Km. 15+400  
Sheet 9 of 13

DATE  
SEPT 2008

SCALE  
Horizontal 1:2500 @ A1  
Vertical 2500/250 @ A1

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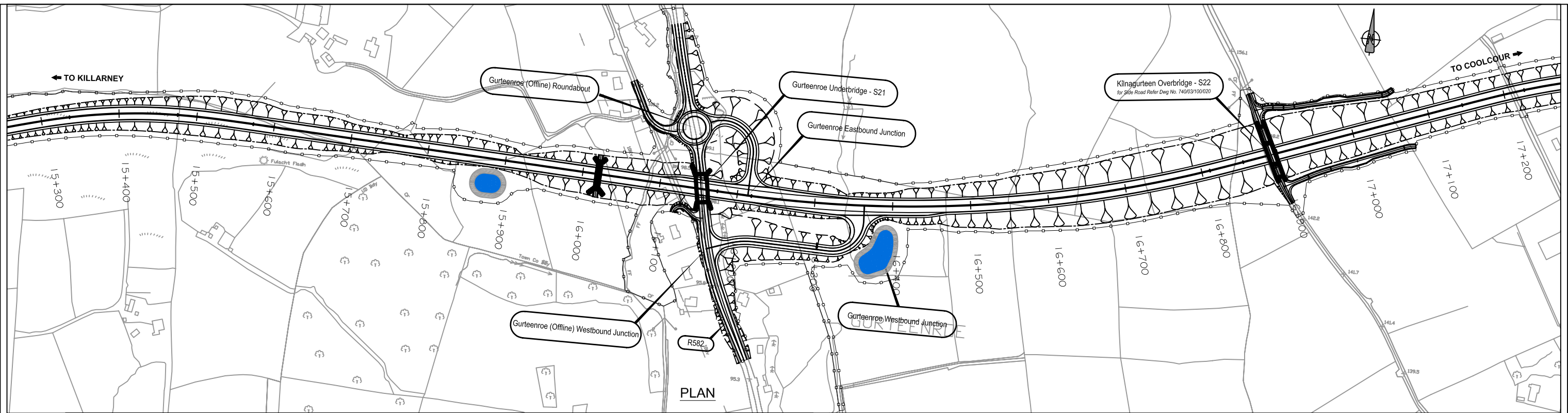
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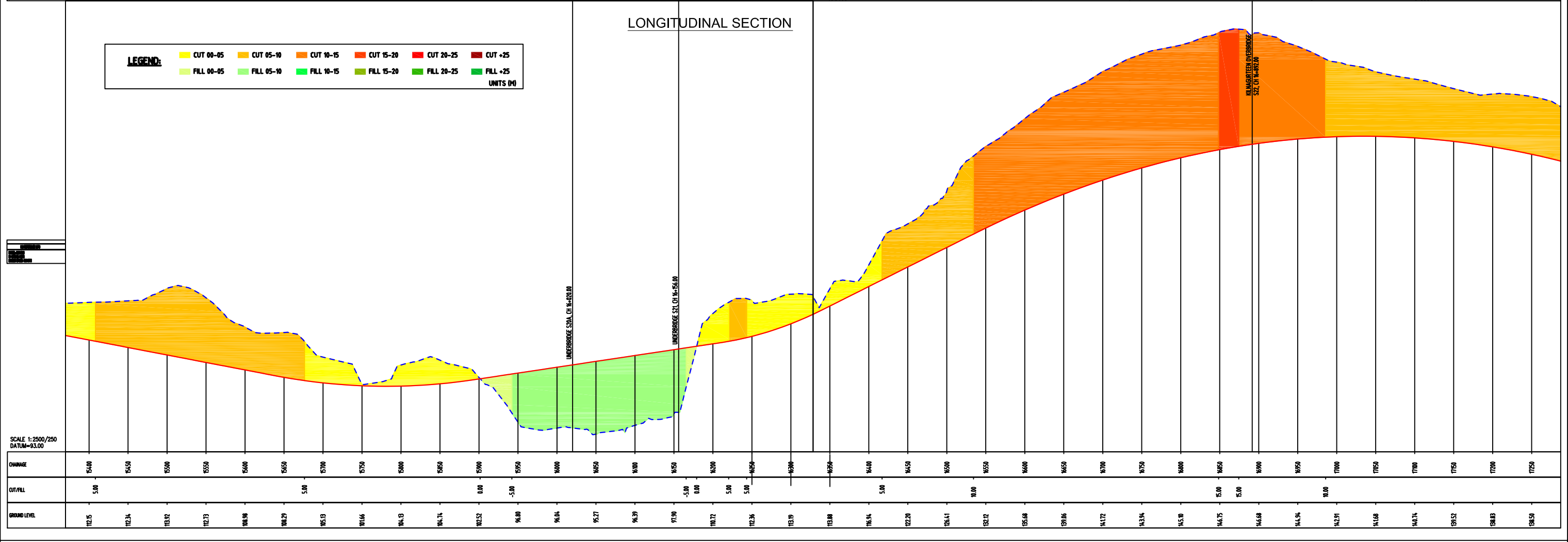


LONGITUDINAL SECTION

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UNITS (M)



SCALE 1:2500/250  
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CUT/FILL	5.08				5.08				0.00	-5.00	-5.00	-5.00	-5.00	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
GROUND LEVEL	112.15	112.34	113.32	112.73	114.98	114.29	115.13	114.66	114.13	114.74	112.52	114.08	114.14	115.27	114.39	117.90	118.72	112.36	113.19	113.08	116.94	122.20	126.41	132.12	135.68	139.06	144.72	143.94	145.10	144.75	144.68	144.44	143.71	144.68	144.74	148.52	148.83	148.51

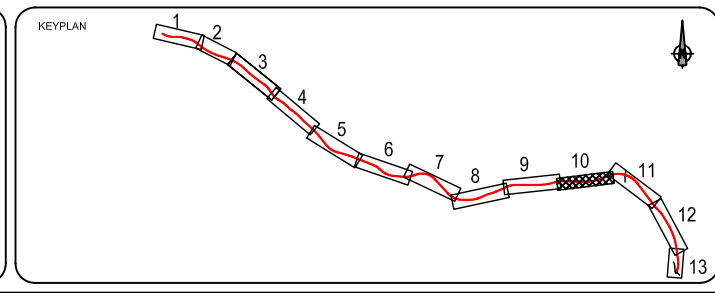
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**LONGITUDINAL PROFILE LEGEND**

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T4	PS	FL	TC	NOV 08	FOURTH ISSUE
T5	CLM	FL	TC	JUN 09	FIFTH ISSUE

Design	SW	Checked	DD
Draw	SR	Approved	DD

FILE NAME: V512-NE02426-T4.dwg

PROJECT  
**N22 BAILE BHUIRNE - MACROOM**  
[BAILE BHUIRNE TO COOLCOUR]

DRAWING TITLE  
Figure 5.3  
Mainline Geometric Plan & Profile  
Ch. Km. 15+400 to Km. 17+200  
Sheet 10 of 13

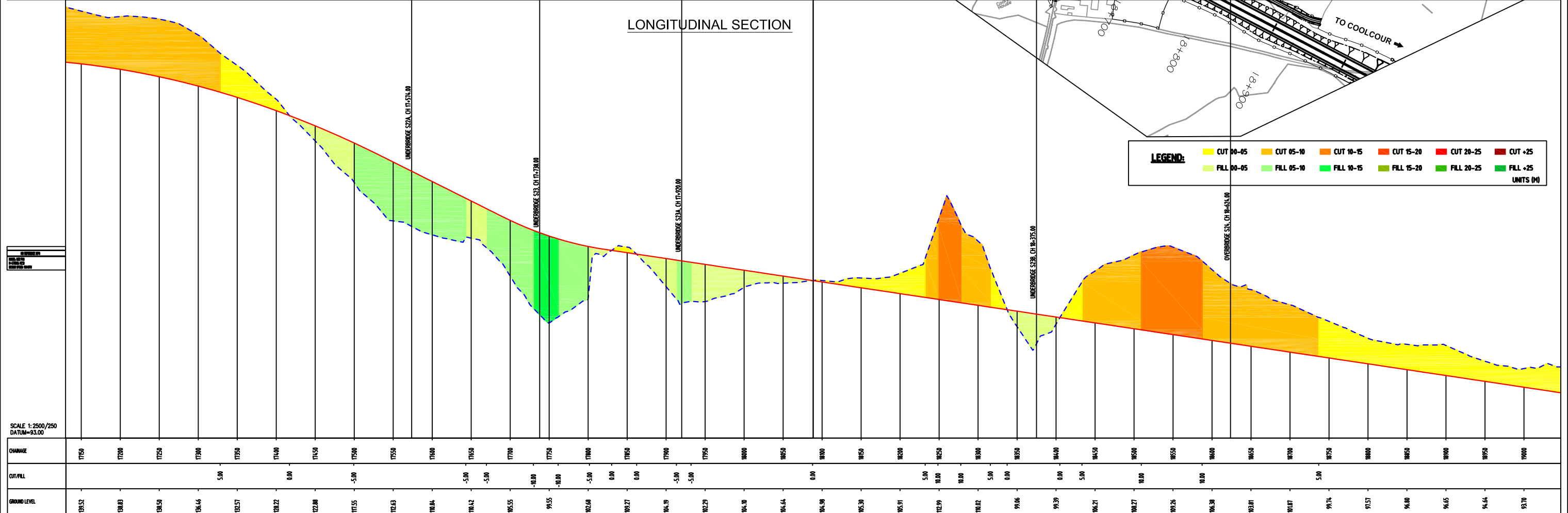
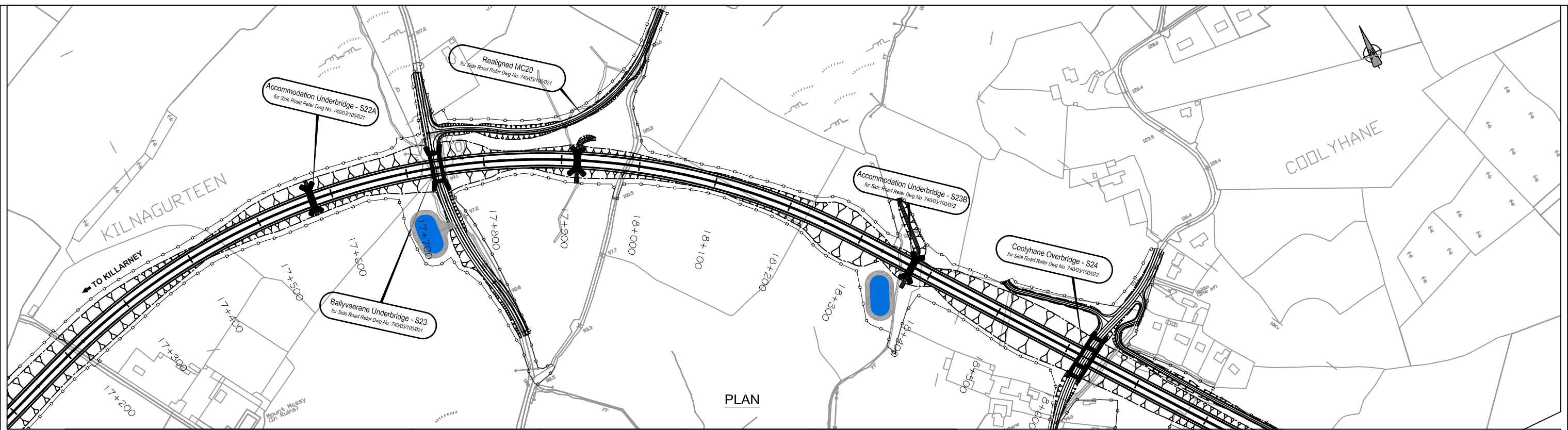
DATE: SEPT 2008

SCALE: Horizontal 1:2500 @ A1  
Vertical 2500/250 @ A1

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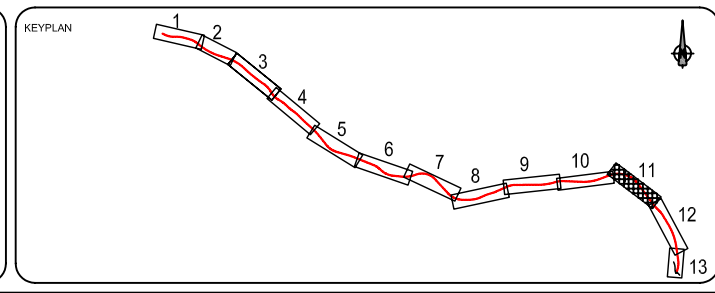
**LEGEND**

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LONGITUDINAL PROFILE LEGEND

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T1	SR	DD	DD	05/2007
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T5	CLM	FL	TC	JUN 09

Design	SW	Checked	DD
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FILE NAME: V512-NE02426-T4.dwg

PROJECT  
N22 BAILE BHUIRNE - MACROOM  
[BAILE BHUIRNE TO COOLCOUR]

DRAWING TITLE  
Figure 5.3  
Mainline Geometric Plan & Profile  
Ch. Km. 17+200 to Km. 18+900  
Sheet 11 of 13

DATE  
SEPT 2008

SCALE  
Horizontal 1:2500 @ A1  
Vertical 2500/250 @ A1

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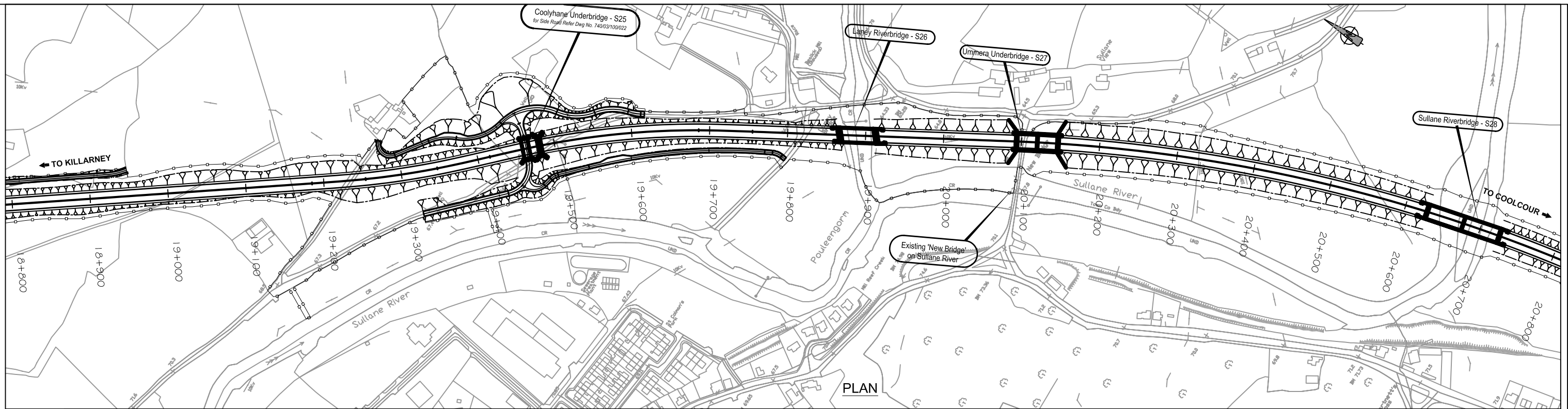
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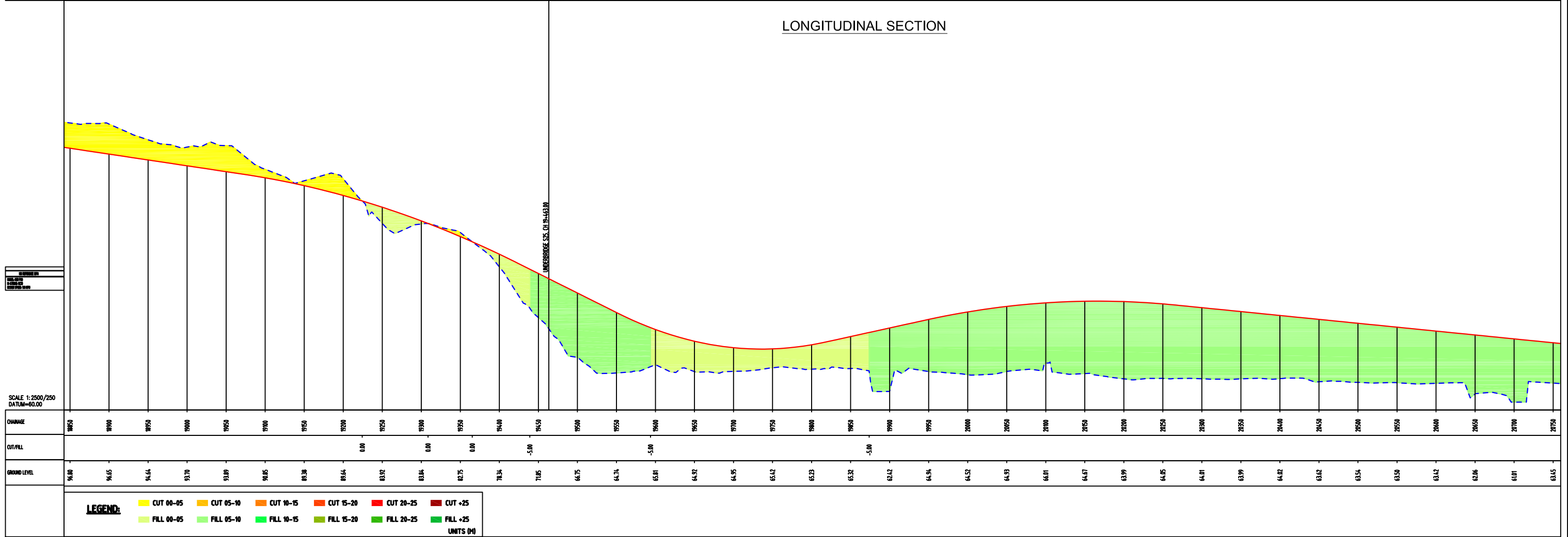
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LONGITUDINAL SECTION



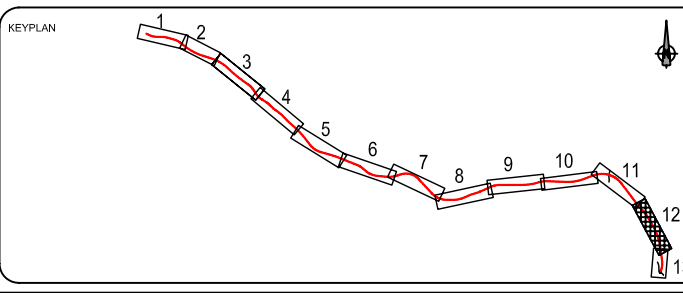
LEGEND

FENCE LINE

LONGITUDINAL PROFILE LEGEND

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Design	SW	Checked	DD
Drawn	SR	Approved	DD

FILE NAME  
V512-NE02426-T4.dwg

PROJECT  
N22 BAILE BHUIRNE - MACROOM  
[BAILE BHUIRNE TO COOLCOUR]

DRAWING TITLE  
Figure 5.3  
Mainline Geometric Plan & Profile  
Ch. Km. 18+900 to Km. 20+700  
Sheet 12 of 13

DATE  
SEPT 2008

SCALES  
Horizontal 1:2500 @ A1  
Vertical 2500/250 @ A1

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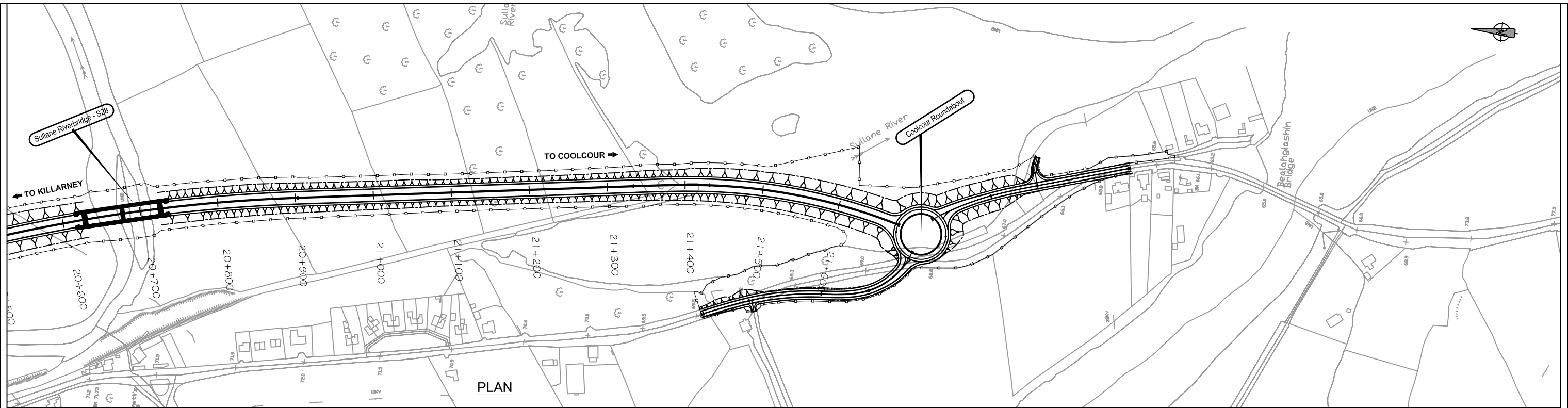
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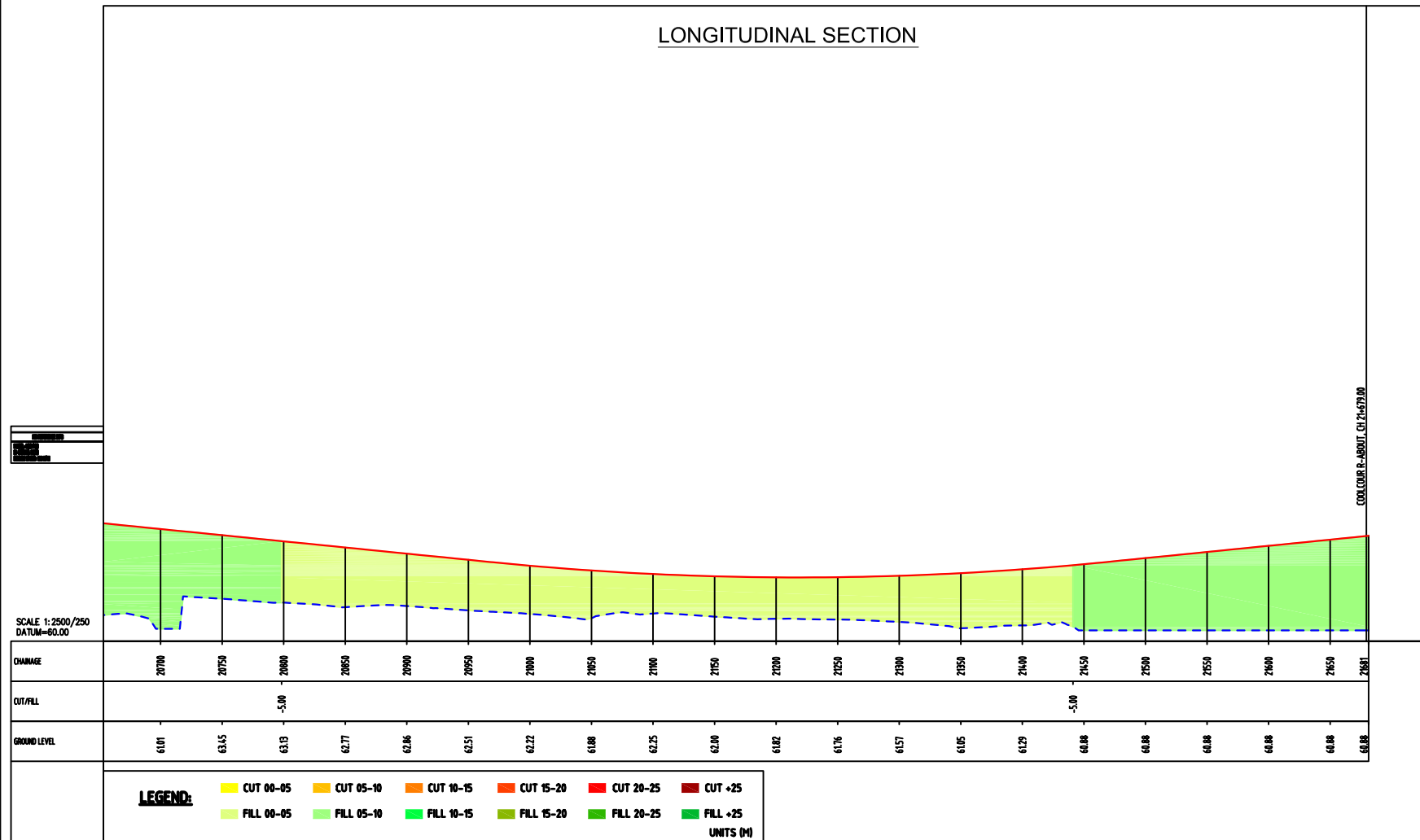
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**LONGITUDINAL SECTION**



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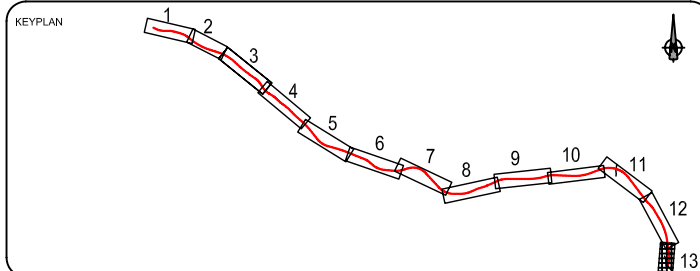
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Design	SW	Checked	DD
Draw	SR	Approved	DD

FILE NAME  
V512-NE02426-T4.dwg

**PROJECT**  
N22 BAILE BHUIRNE - MACROOM  
[BAILE BHUIRNE TO COOLCOUR]

**DRAWING TITLE**  
Figure 5.3  
Mainline Geometric Plan & Profile  
Ch. Km. 20+700 to Km. 21+681  
Sheet 13 of 13

DATE  
SEPT 2008

SCALE  
Horizontal 1:2500 @ A1  
Vertical 2500/250 @ A1

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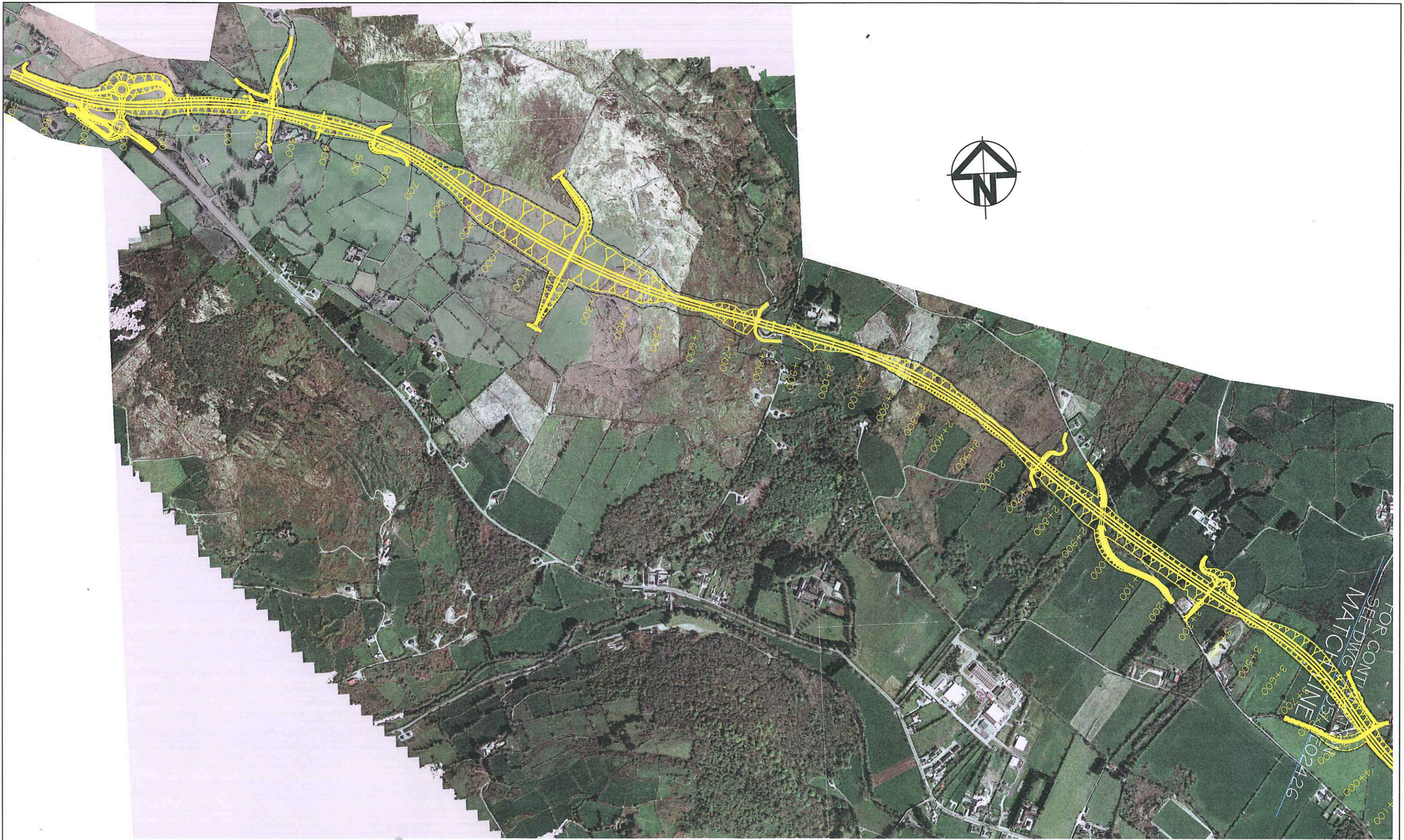
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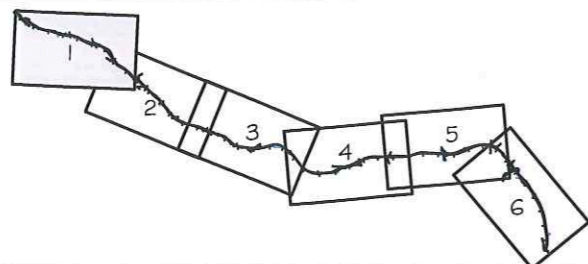
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Designed	F.LAGAN	Checked	F.LAGAN
Drawn	J.BOWEN	Approved	T.CARTER
FILE NAME	V504-NE02426-T4		

PROJECT  
**N22 BAILE BHUIRNE - MACROOM**  
 [BAILE BHUIRNE TO COOLCOUR]

DRAWING TITLE  
**FIGURE 5.4 AERIAL PHOTOGRAPHY  
 OF PRELIMINARY DESIGN**  
 (SHEET 1 OF 6)

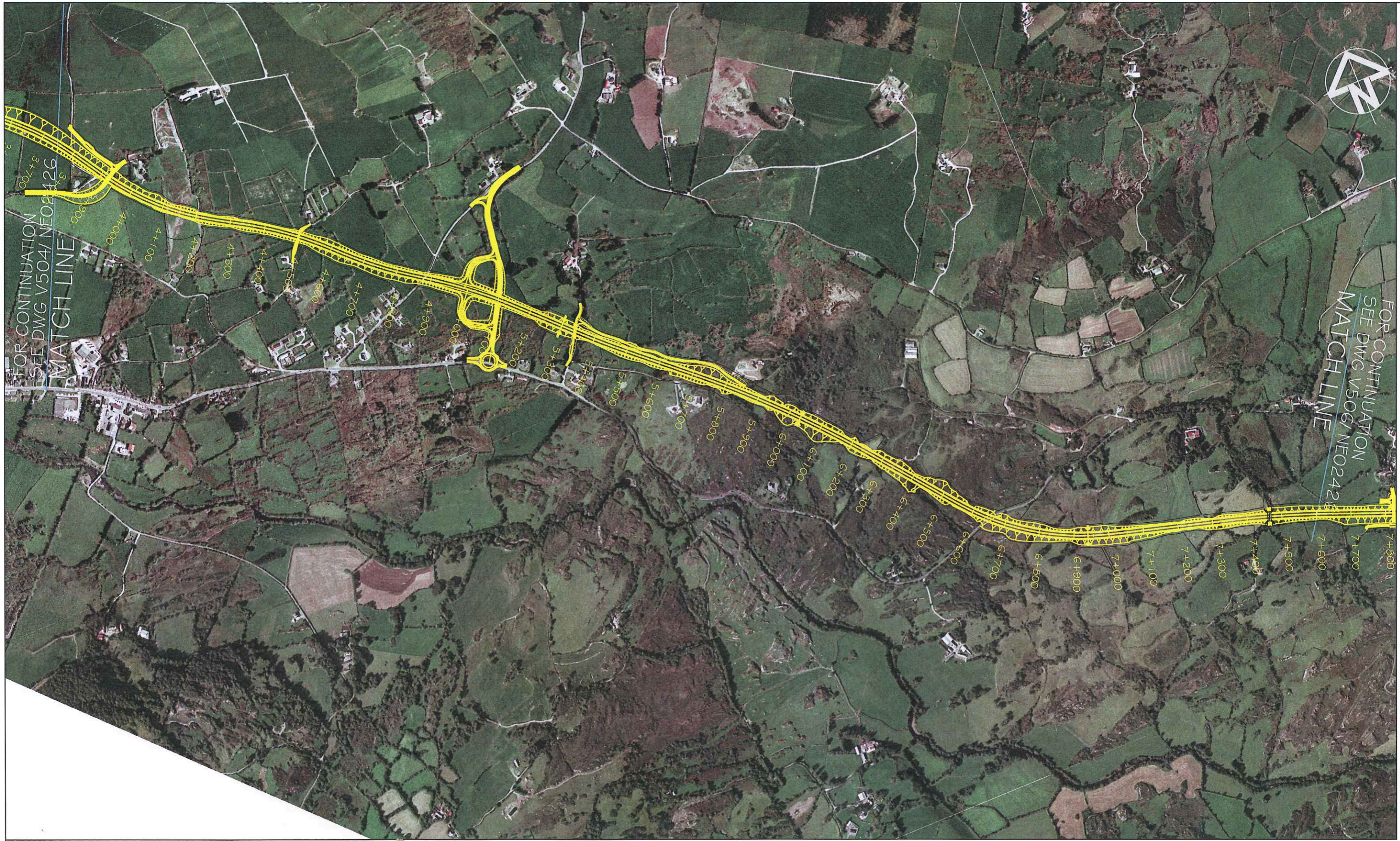
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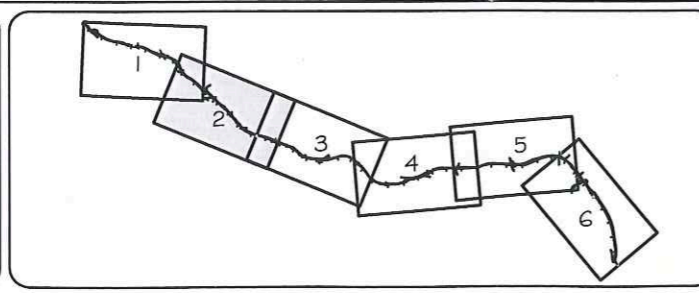


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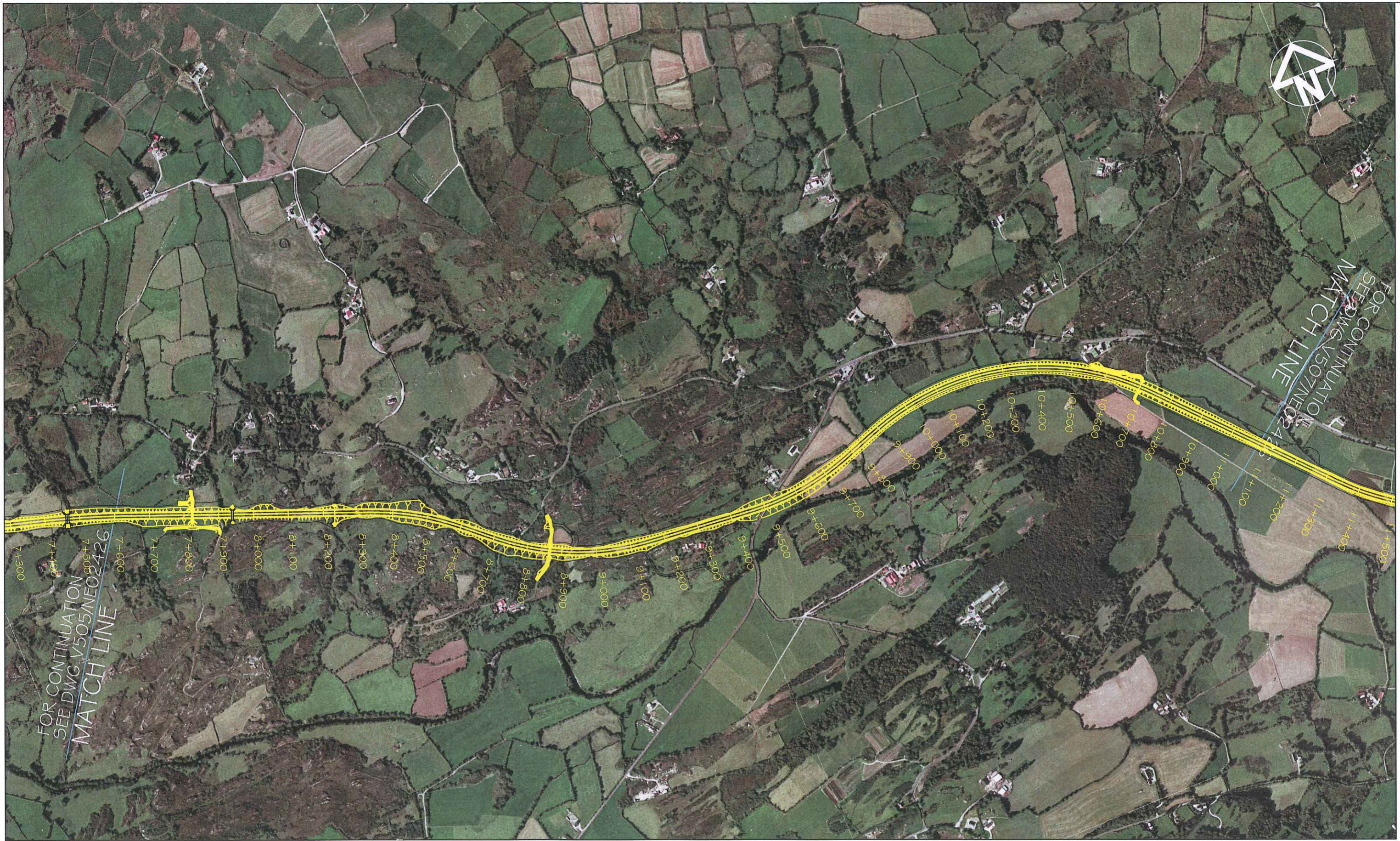
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Drawn	J.BOWEN	Approved	T.CARTER
FILE NAME	V505-NE02426-T4		



PROJECT  
**N22 BAILE BHUIRNE - MACROOM**  
 (BAILE BHUIRNE TO COOLCOUR)  
 DRAWING TITLE  
**FIGURE 5.4 AERIAL PHOTOGRAPHY OF PRELIMINARY DESIGN**  
 (SHEET 2 OF 6)  
 DATE: NOV 08      SCALE: 1:10000 (A3)

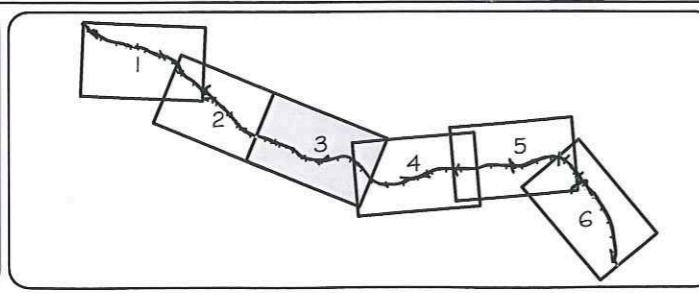
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T4	GP	FL	TC	NOV 08	FOURTH ISSUE

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Drawn	J.BOWEN	Approved	T.CARTER
FILE NAME	V506-NEO2426-T4		



PROJECT  
**N22 BAILE BHUIRNE - MACROOM**  
 (BAILE BHUIRNE TO COOLCOUR)  
 DRAWING TITLE  
**FIGURE 5.4 AERIAL PHOTOGRAPHY OF PRELIMINARY DESIGN**  
 (SHEET 3 OF 6)  
 DATE NOV 08      SCALES 1:10000 (A3)

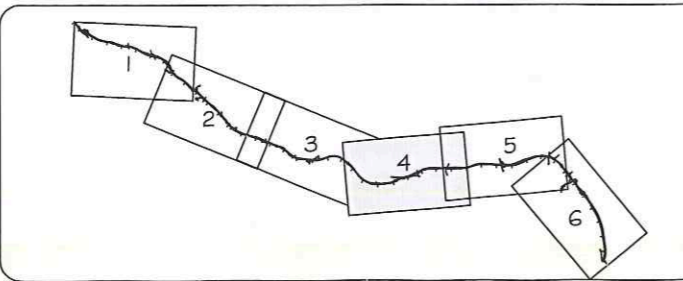
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 F.I.E.L., M.I.C.E., A County Engineer  
 County Engineer

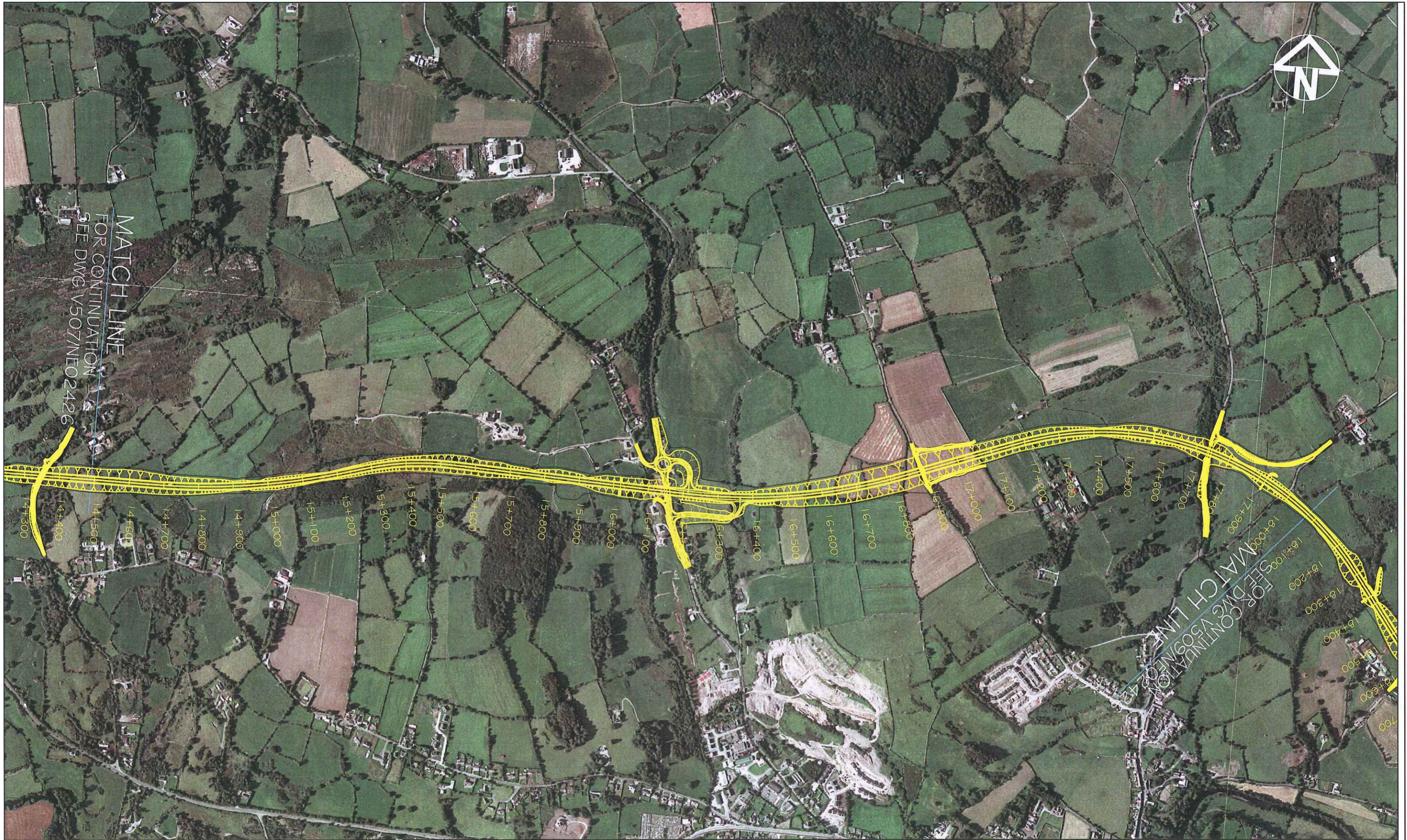
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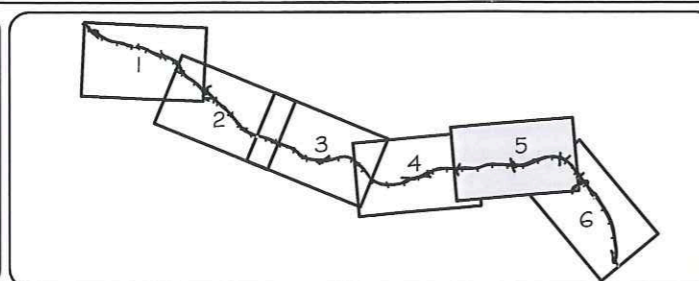
Designed	F.LAGAN	Drafted	F.LAGAN
Drawn	J.BOWEN	Approved	T.CARTER
FILE NAME	V507-NEO2426-T4		

PROJECT  
**N22 BAILE BHUIRNE - MACROOM**  
 (BAILE BHUIRNE TO COOLCOUR)  
 DRAWING TITLE  
**FIGURE 5.4 AERIAL PHOTOGRAPHY**  
**OF PRELIMINARY DESIGN**  
 (SHEET 4 OF 6)  
 DATE NOV 08      SCALE 1:1 000 (A3)

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 PROPOSED SCHEME  
 PERMANENT FENCELINE



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 National Development Plan 2007 - 2013  
 YOUR PLAN - YOUR FUTURE  
 National Roads Authority  
 An tAidíonn um Beithne Nólíonta

 **CORK COUNTY COUNCIL**  
 COMHARLE CHONTAE CHORCAI  
 County Hall  
 Cork  
 Noel O'Keefe B.E., C.Eng., Eur. Ing., F.I.E.I., M.I.C.E., A/Country Engineer  
 County Engineer

 Department of Transport  
 An tAidíonn Iompair

 **transport21**  
 progress in motion



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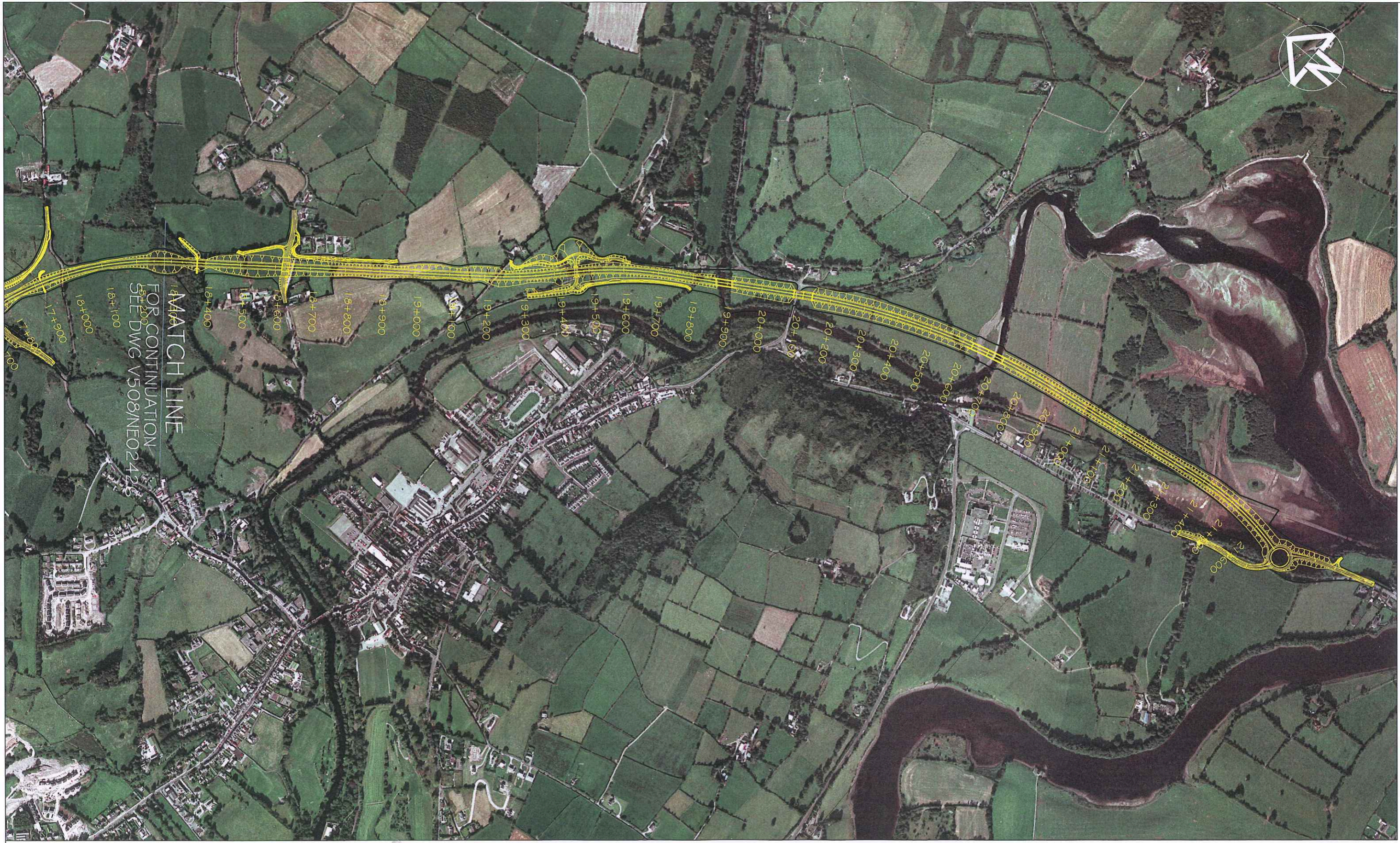
Design	F.LAGAN	Checked	F.LAGAN
Drawn	J.BOWEN	Approved	T.CARTER
FILE NAME	V508-NEO2426-T4		

PROJECT  
**N22 BAILE BHUIRNE - MACROOM**  
 (BAILE BHUIRNE TO COOLCOUR)  
 DRAWING TITLE  
**FIGURE 5.4 AERIAL PHOTOGRAPHY OF PRELIMINARY DESIGN**  
 (SHEET 5 OF 6)  
 DATE NOV 08  
 SCALES 1:10000 (A3)

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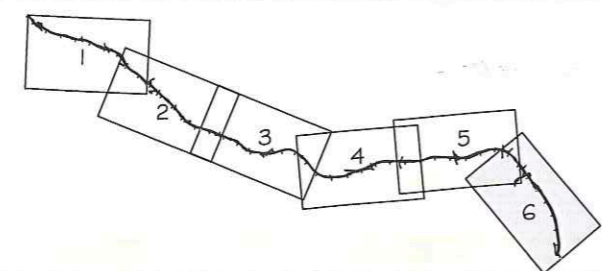
   
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MATCH LINE  
FOR CONTINUATION  
SEE DWG V508/NE02426

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PERMANENT FENCELINE



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Department of Transport  
An Roinn Iompair

transport21  
progress in motion

NDP National Development Plan 2007 - 2013  
YOUR PLAN - YOUR FUTURE

NRA National Roads Authority  
An tArdstailín um Bóithre Náisiúnta

CORK COUNTY COUNCIL  
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County Hall  
Cork

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F.I.E.I., M.I.C.E., A/County Engineer  
County Engineer

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Drawn	J.BOWEN	Approved	T.CARTER
FILE NAME	V509-NE02426-T4		

PROJECT  
N22 BAILE BHUIRNE - MACROOM  
[BAILE BHUIRNE TO COOLCOUR]

DRAWING TITLE  
FIGURE 5.4 AERIAL PHOTOGRAPHY  
OF PRELIMINARY DESIGN  
(SHEET 6 OF 6)

DATE NOV 08

SCALE 1:10000 (A3)

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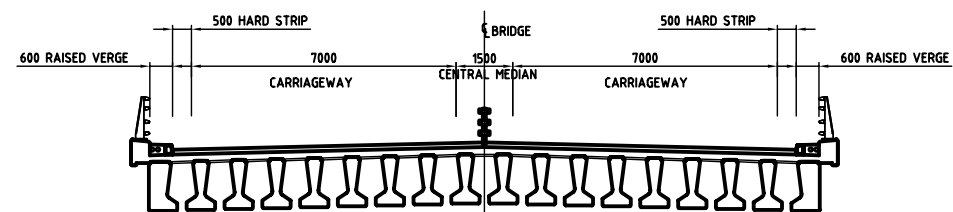
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CONSULTING ENGINEERS

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Partners of Power & Co. Ltd.

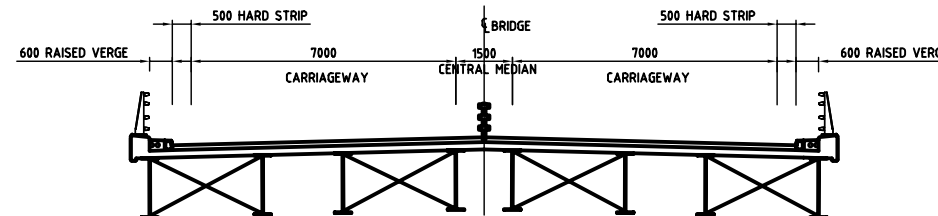
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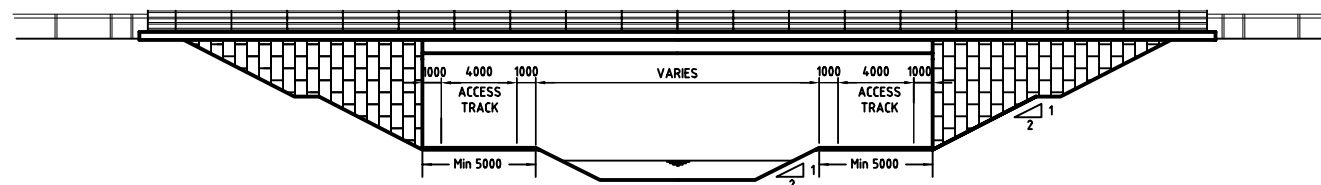
ISSUE T4



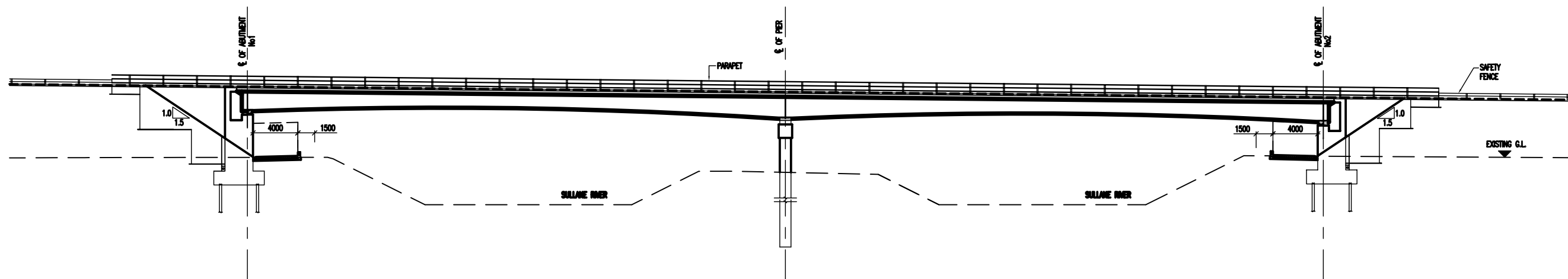
DECK SECTION  
SCALE 1:100 @ A1  
SCALE 1:200 @ A3



TYPICAL STEEL DECK SECTION  
SCALE 1:100 @ A1  
SCALE 1:200 @ A3



DEVELOPED ELEVATION  
SCALE 1:200 @A1  
SCALE 1:400 @A3  
(DIMESION ARE SHOWN SQUARE TO THE RIVER)



DEVELOPED 2 SPAN ELEVATION

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Noel O'Keefe B.E., C.Eng., Eur. Ing., F.I.E.L., M.I.C.E., A'County Engineer

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Designed	V. THOMAS	Checked	F. LAGAN
Drawn	G. E. PHILLIPS	Approved	T. CARTER
FILE NAME	V1710-NE02426-T3		

PROJECT  
N22 BAILE BHUIRNE - MACROOM  
[BAILE BHUIRNE TO COOLCOUR]

DRAWING TITLE  
TYPICAL RIVER CROSSING  
FIGURE 5.5

DATE  
NOV 08

SCALE  
AS SHOWN @ A1 & A3

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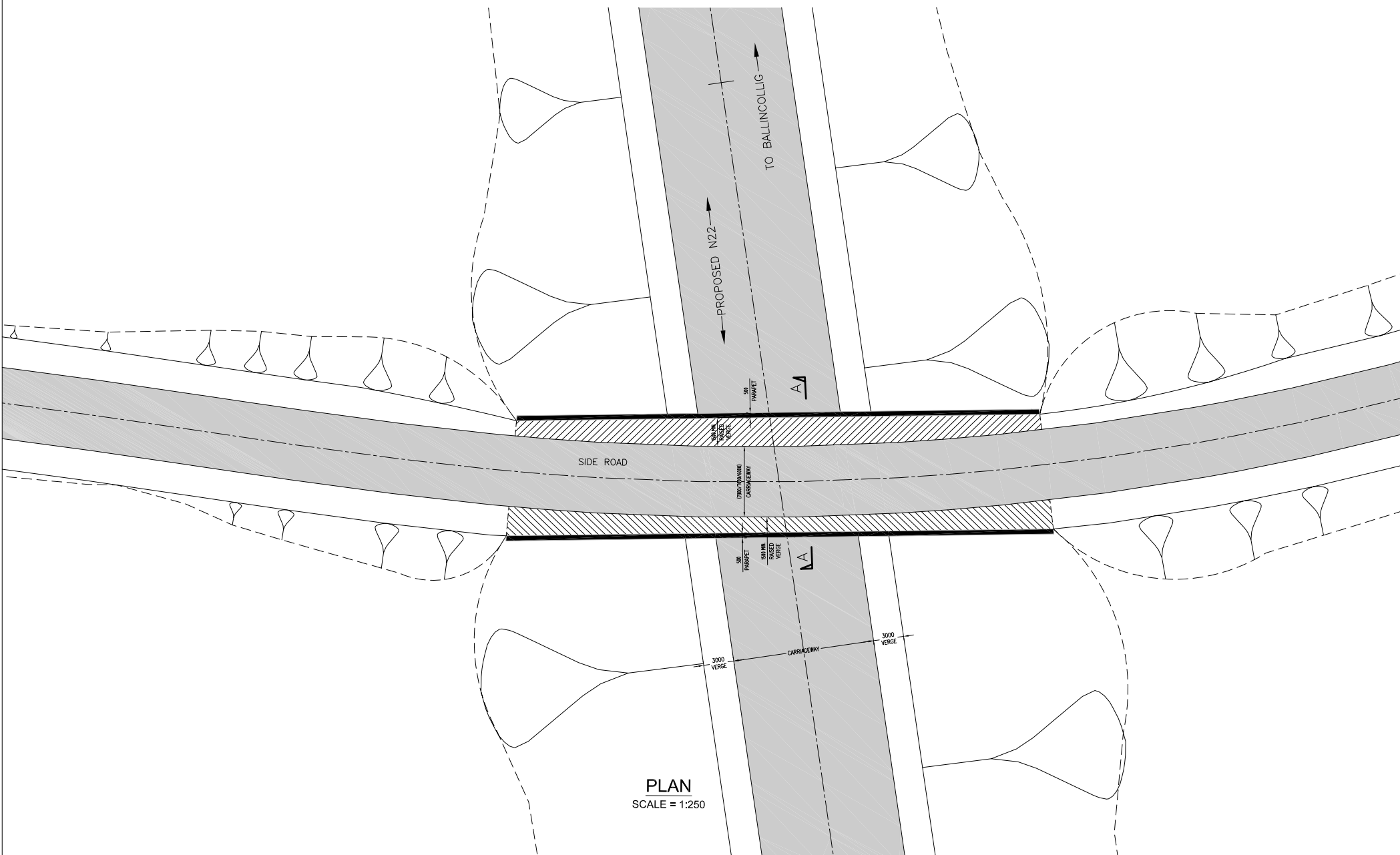
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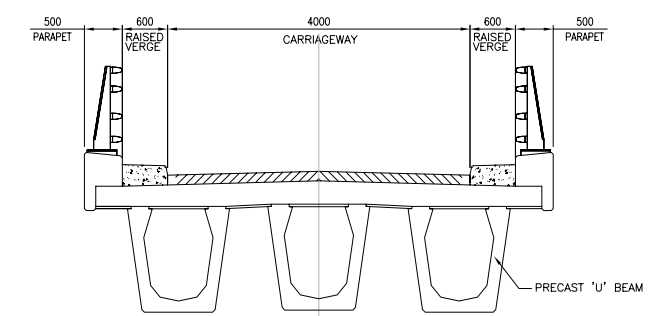
ISSUE  
T3

**DO NOT SCALE FROM DRAWING**

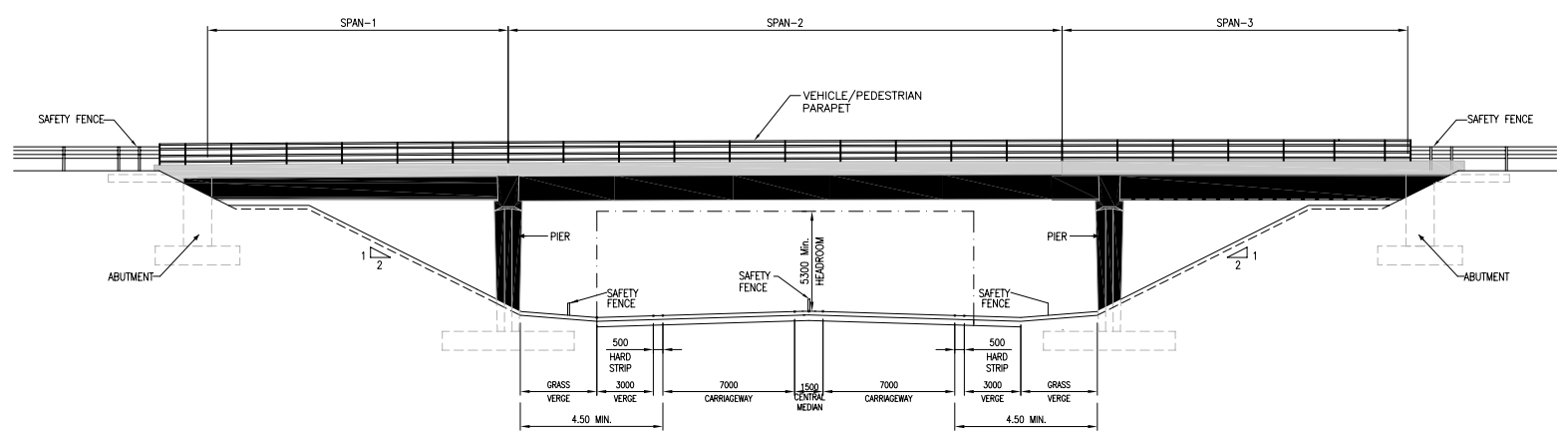
- NOTES:**
1. ALL DIMENSIONS ARE SQUARE DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
  2. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM.
  3. TYPICAL CROSS SECTIONS ARE WITHOUT ADDITIONAL WIDENING FOR VISIBILITY. VERGES MAY REQUIRE WIDENING TO ACHIEVE VISIBILITY IN CERTAIN LOCATIONS.



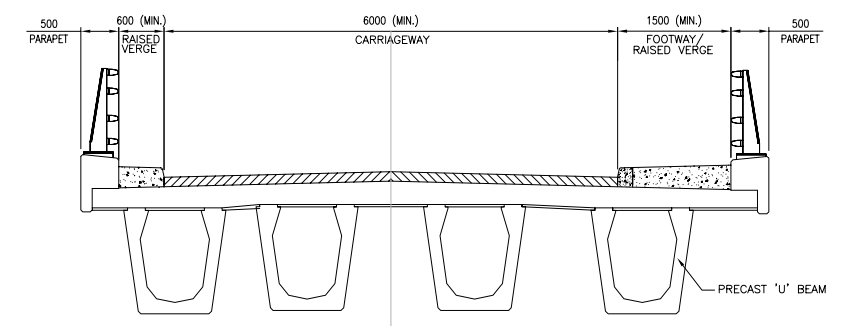
**PLAN**  
SCALE = 1:250



**SECTION A-A - TYPICAL ACCOMMODATION ROAD OVERBRIDGE**  
SCALE = 1:50



**ELEVATION**  
SCALE = 1:200



**SECTION A-A - TYPICAL LOCAL ROAD OVERBRIDGE**  
SCALE = 1:50

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Carrigrohane Road  
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E. Flynn B.E., C.Eng., F.I.E.I.  
County Engineer

Issue	by	chkd.	app.	date	
T1	DD	SC	DD	May 08	First Issue
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T3	DD	SC	DD	Nov 08	Third Issue
T4	DD	SC	DD	Nov 08	Fourth Issue

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Drawn	SRay	Approved	DD
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PROJECT  
**N22 BAILE BHUIRNE - MACROOM**  
[BAILE BHUIRNE TO COOLCOUR]

DRAWING TITLE  
**FIGURE 5.6**  
TYPICAL ROAD OVERBRIDGE  
GENERAL ARRANGEMENT

DATE  
DEC 2008

SCALE  
AS SHOWN

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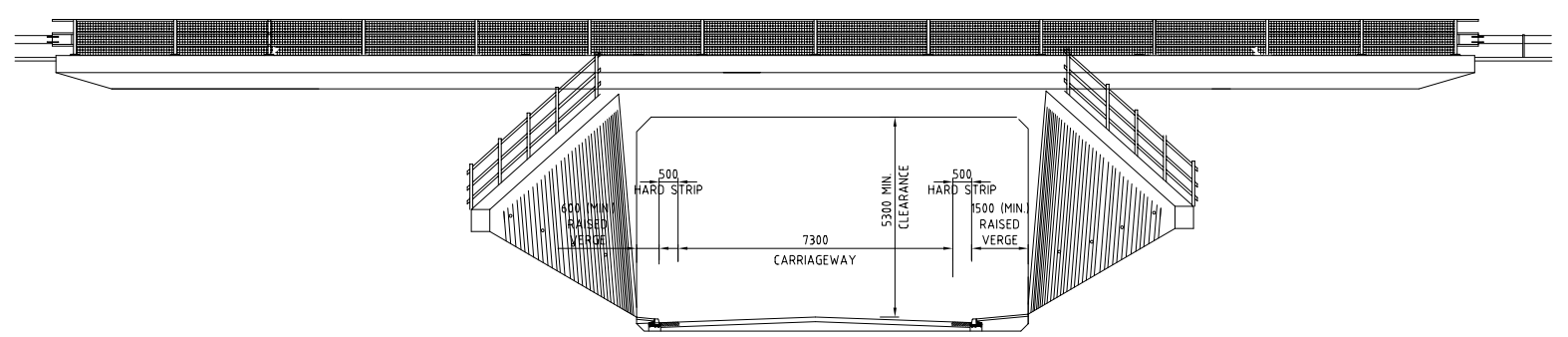
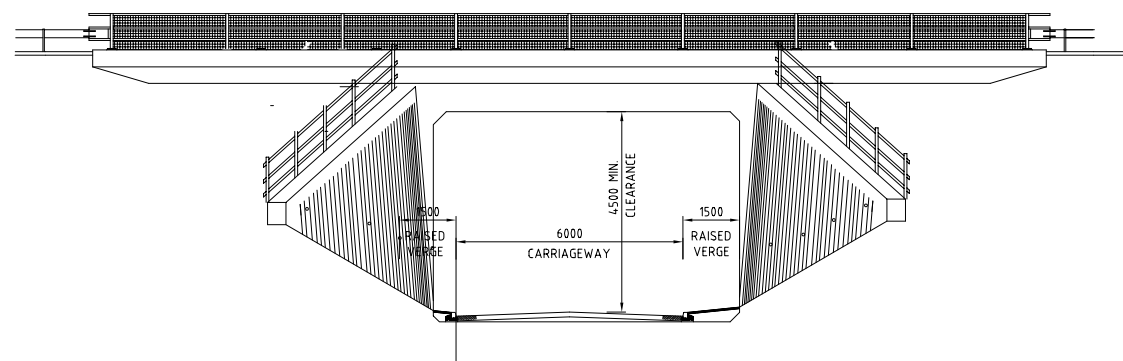
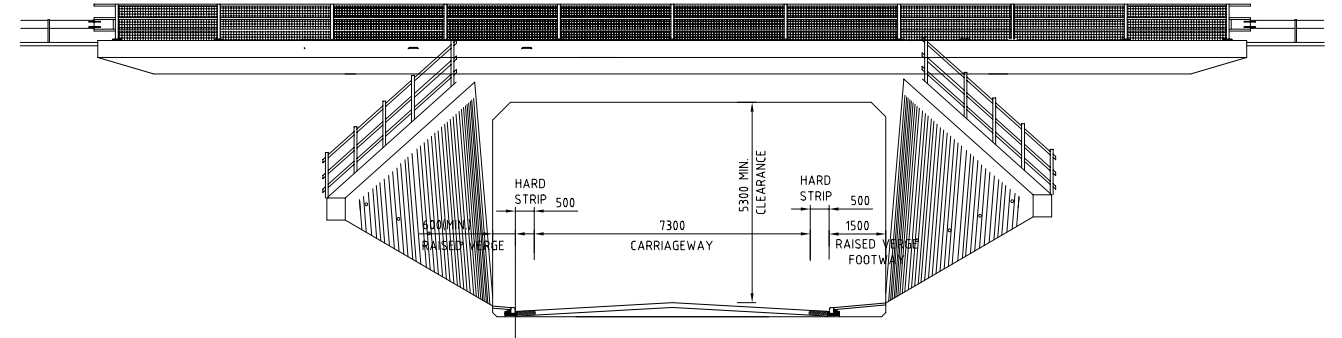
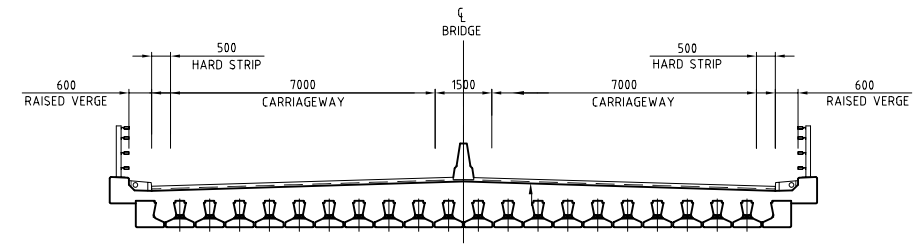
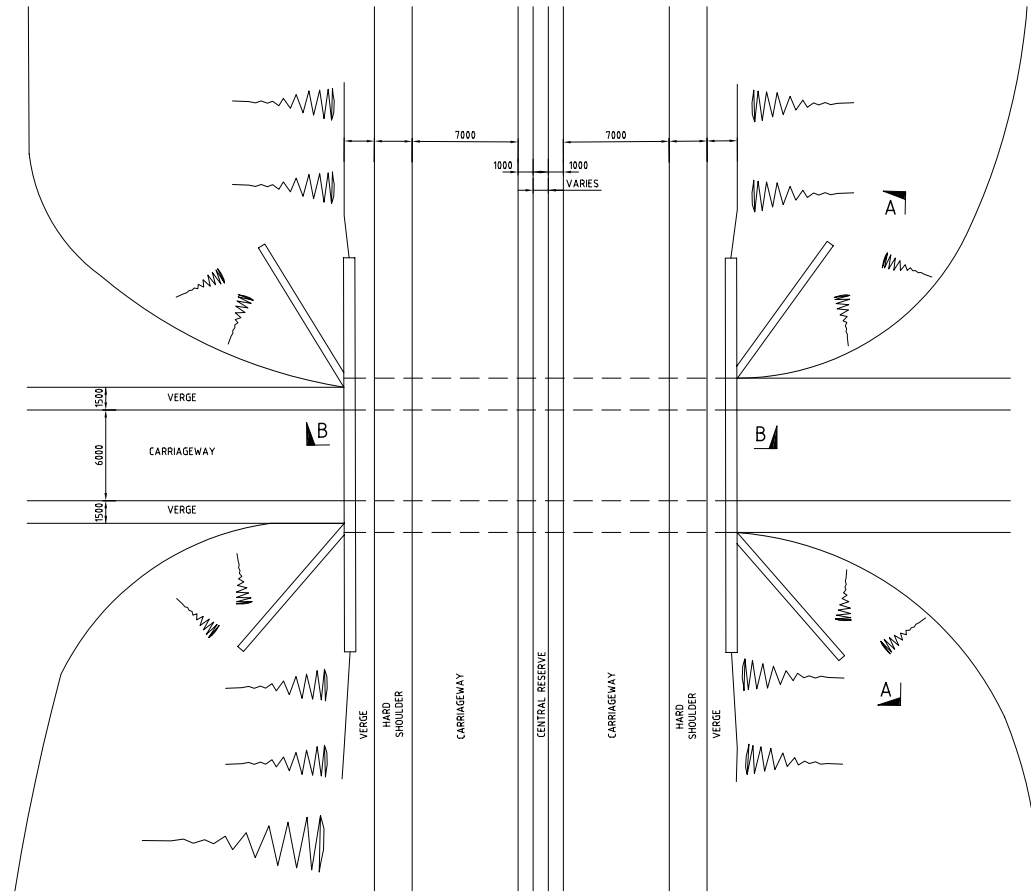
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F.I.E.I., M.I.C.E., A County Engineer  
County Engineer

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Designed	F.LAGAN	Checked	F.LAGAN
Drawn	J.BOWEN	Approved	T.CARTER
FILE NAME	V511-NE02426-T4		

PROJECT  
**N22 BAILE BHUIRNE - MACROOM**  
(BAILE BHUIRNE TO COOLCOUR)

DRAWING TITLE  
**FIGURE 5.7**  
**TYPICAL ROAD UNDERBRIDGE**  
**GENERAL ARRANGMENT**

DATE  
NOV 08

SCALE  
AS SHOWN

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