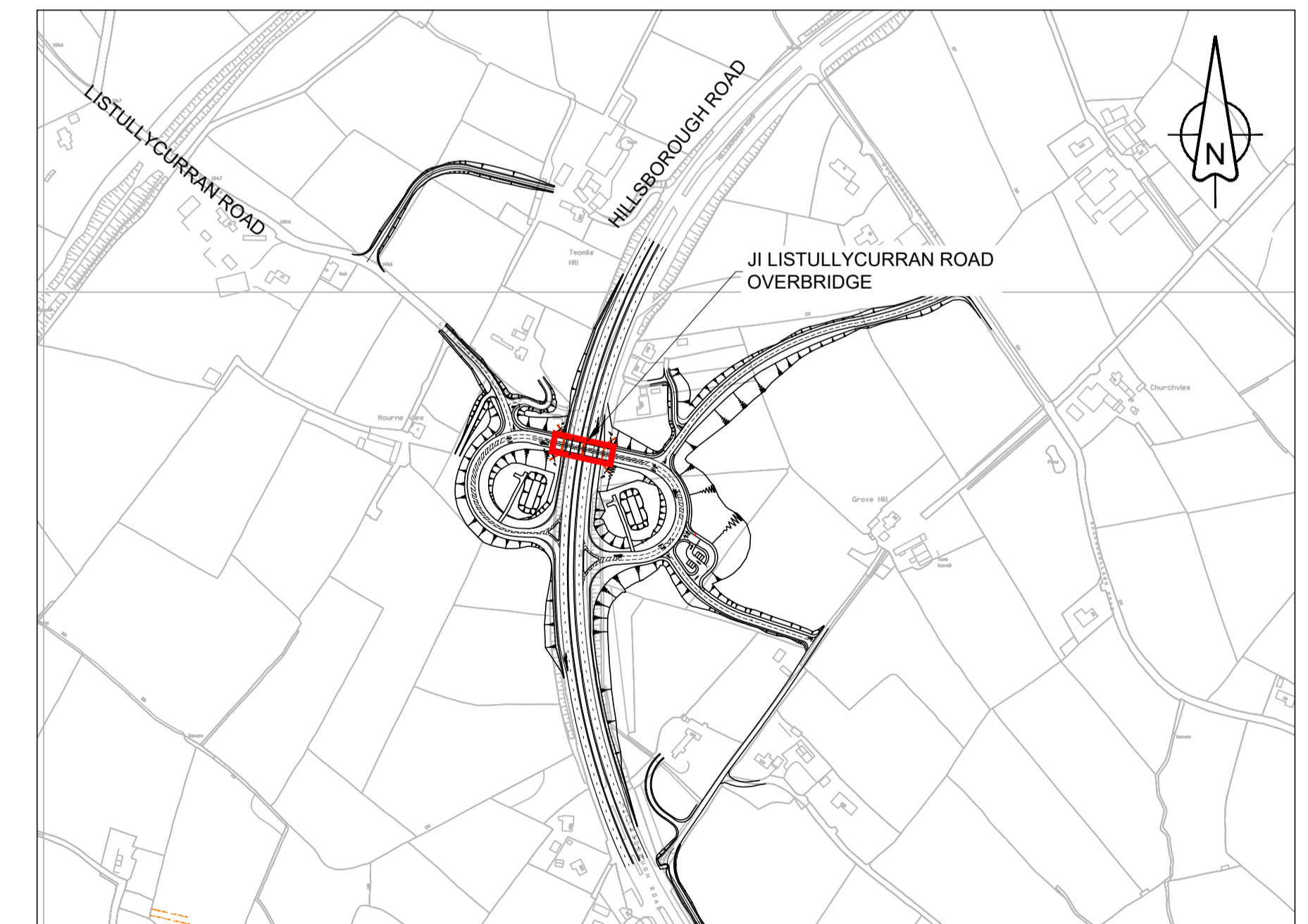
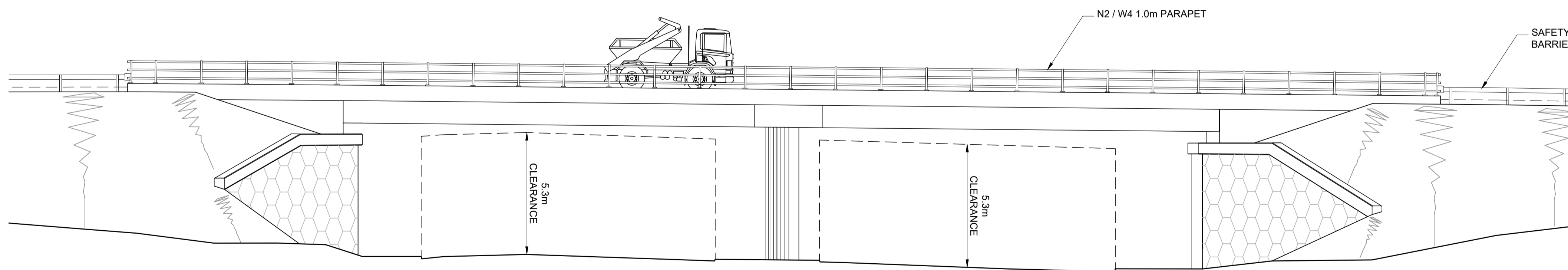
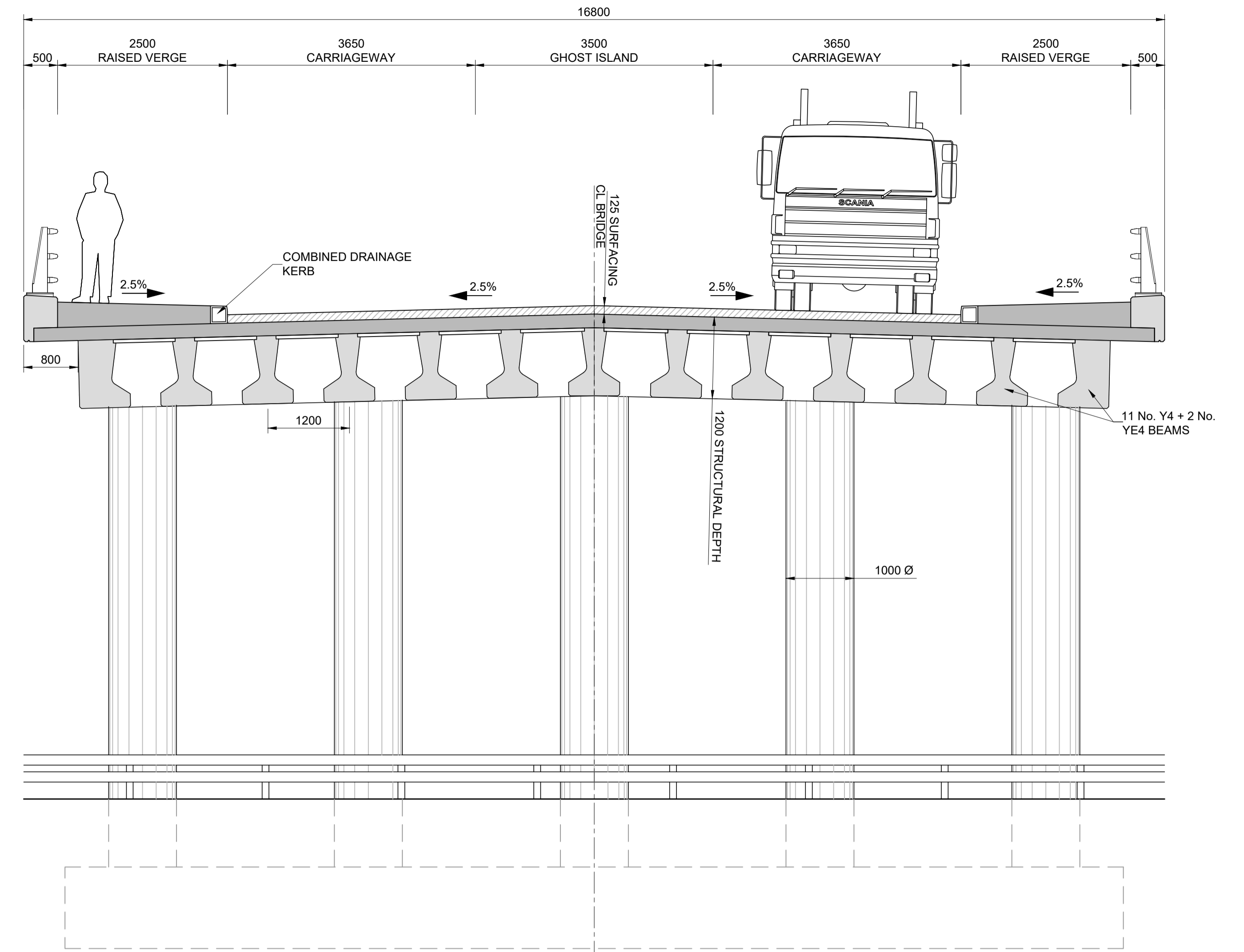
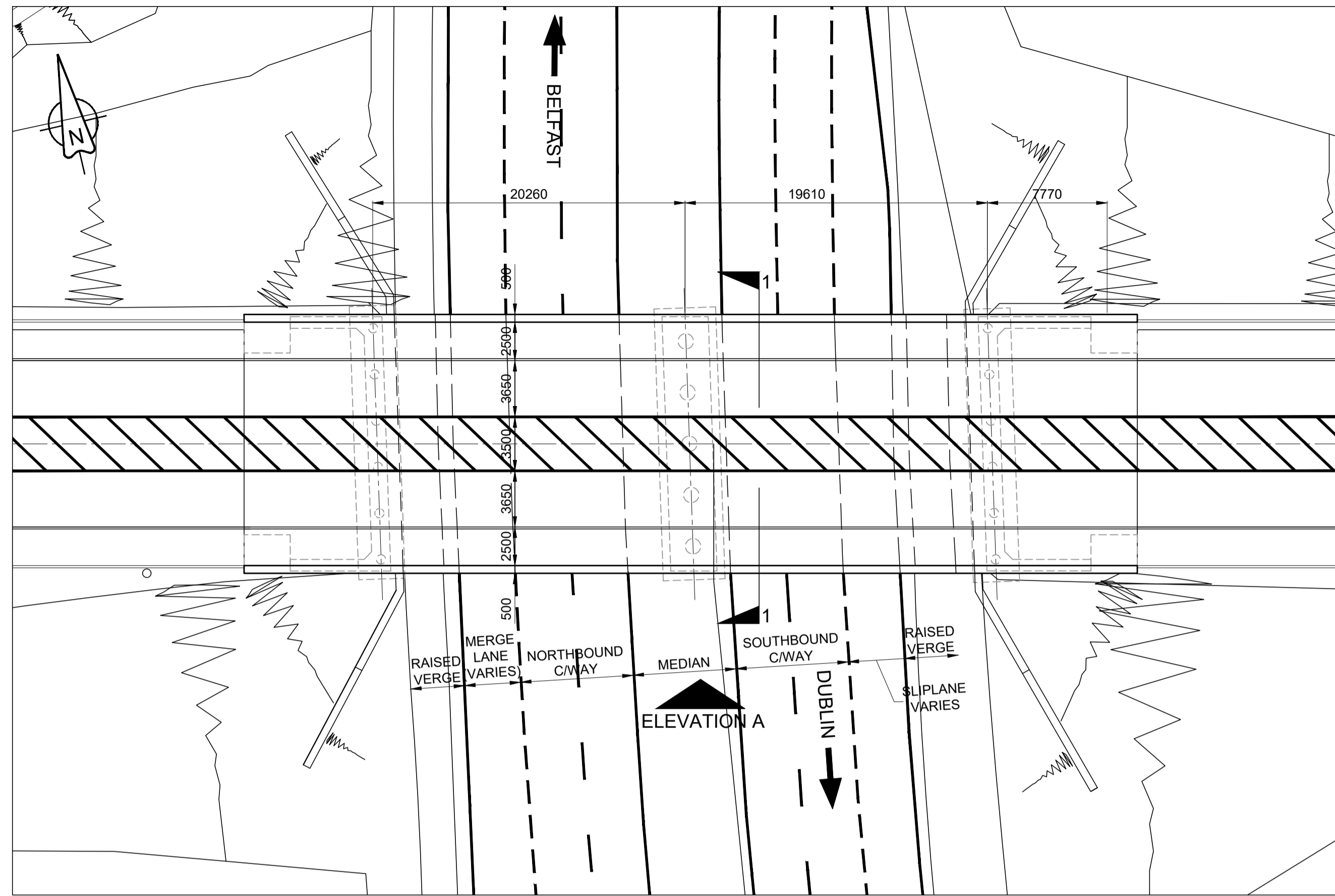


APPENDIX F
Structures Drawings



This is based upon Crown Copyright and is reproduced with the permission of Land & Property Services under delegated authority from the Controller of Her Majesty's Stationery Office, © Crown copyright and database right [2018] EMOU [206.2]

Drawing Title	
BRIDGE GENERAL ARRANGEMENT - J1	
Drawing Number	Rev
TNI Ref Originator Volume Location Type Discipline Classification Number	P1.0
168014-RPSD-SBR-J1-DR-S-1700-00001	

Drawing Status	Suitability	Project Ref No.
S2	ISSUE FOR INFORMATION	IBH0488
Scale	Designed	Drawn By
AS SHOWN	MN	PH
Original Size	Date	Date
A1	14.12.18	14.12.18
		14.12.18
		19.02.19
Checked	Authorised	
MN	MC	

Client

Department for Infrastructure
An Roinn Bonneagair
www.infrastructure-ni.gov.uk

Project

Consultant

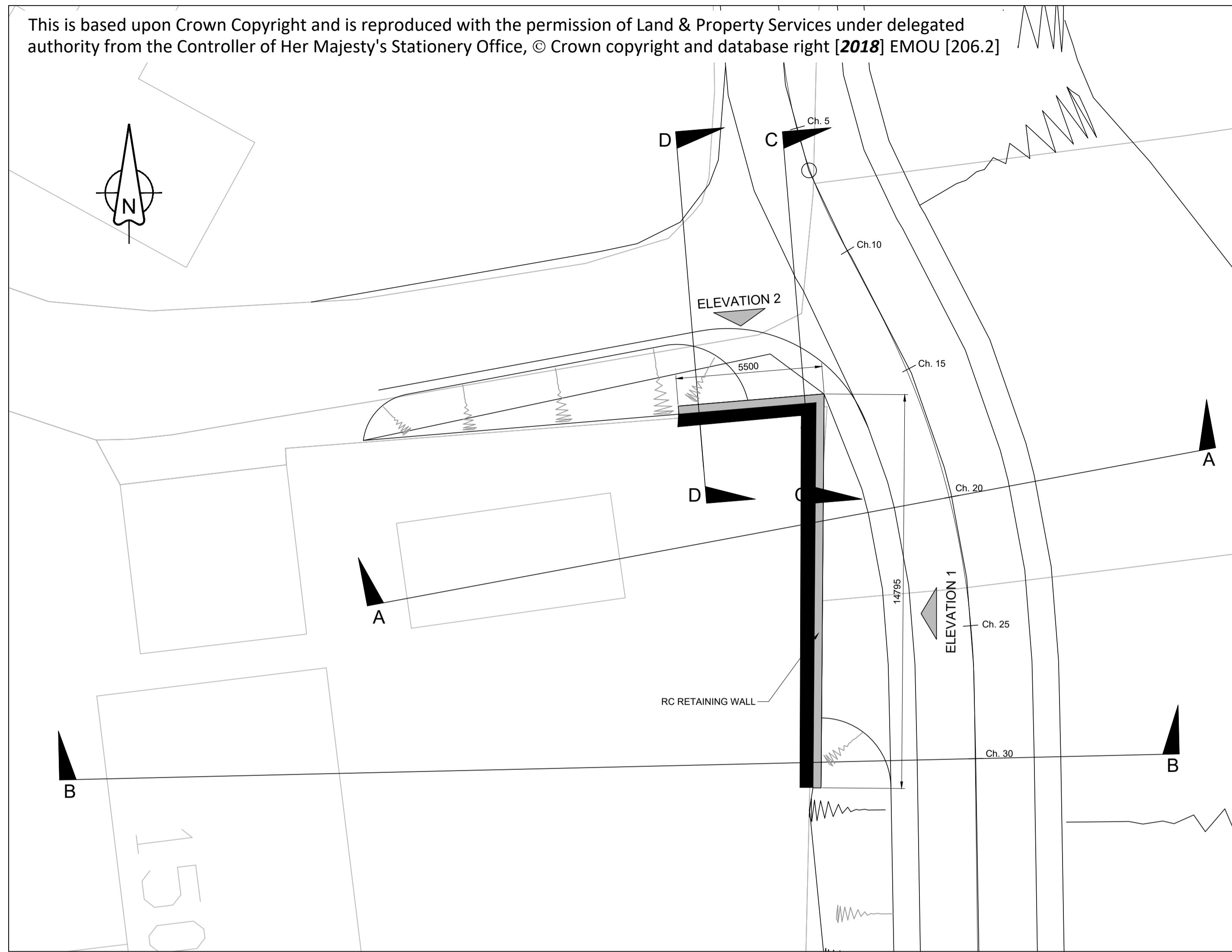
Einwood House
74 Boucher Road
Belfast
BT12 6RZ

T +44 (0) 28 90 667914
F +44 (0) 28 90 668286
W www.rpsgroup.com/ireland
E ireland@rpsgroup.com

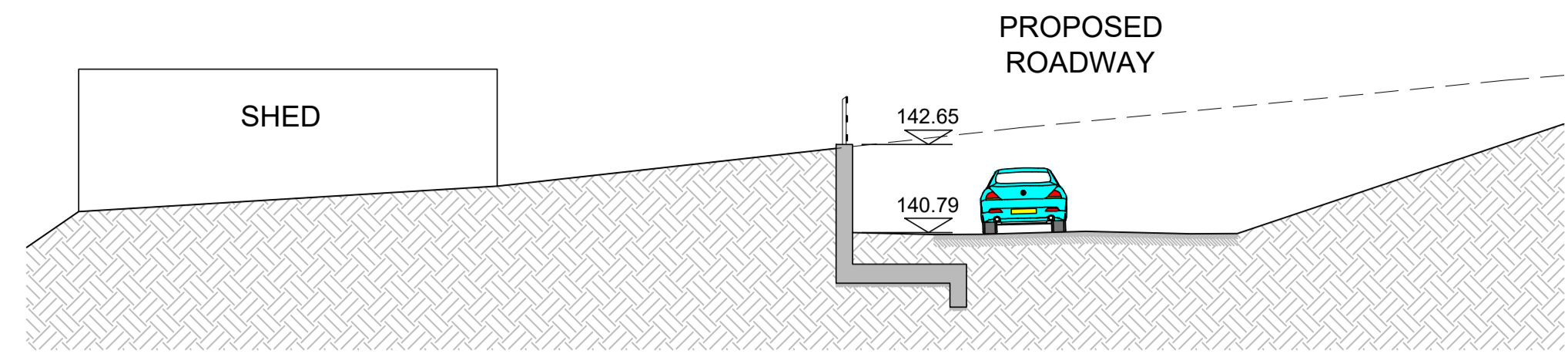
This drawing may only be used for the purpose intended and only written dimensions should be used.

D3	ISSUE FOR REVIEW	PH	250718
D2	ISSUE FOR REVIEW	PH	050218
D1	ISSUE FOR REVIEW	PH	210317

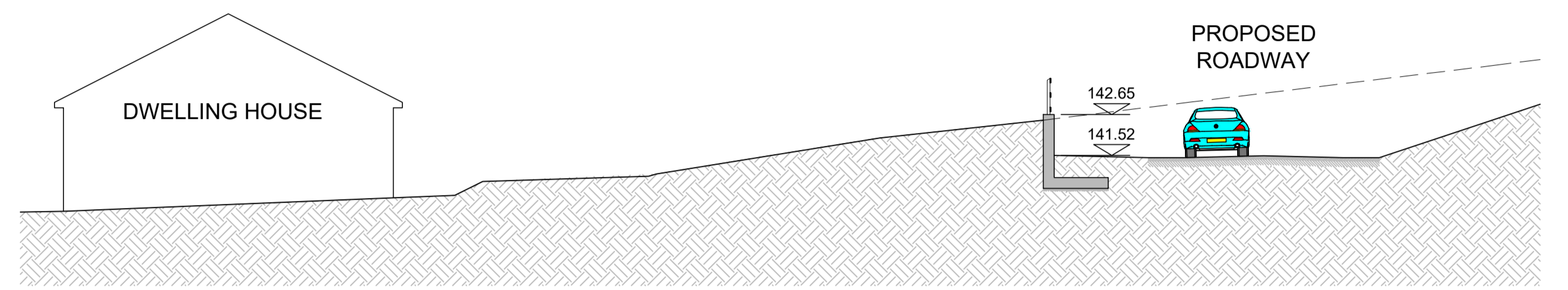
This is based upon Crown Copyright and is reproduced with the permission of Land & Property Services under delegated authority from the Controller of Her Majesty's Stationery Office, © Crown copyright and database right [2018] EMOU [206.2]



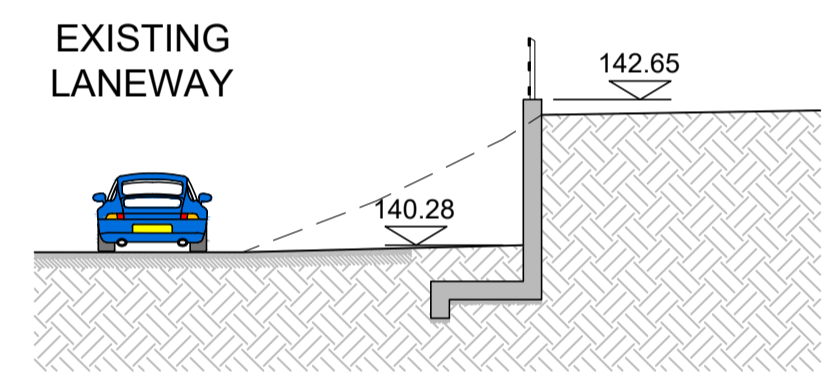
PLAN
Scale: 1/100 @ A1, 1/200 @ A3



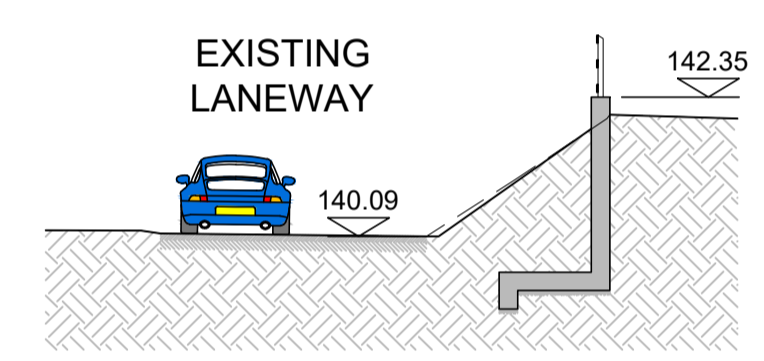
SECTION A-A
Scale: 1/125 @ A1, 1/250 @ A3



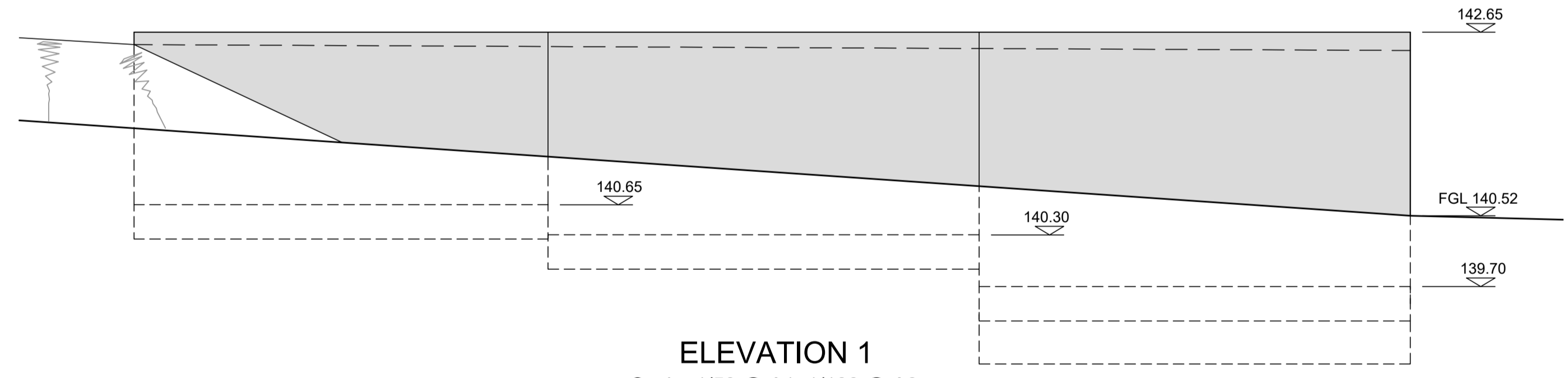
SECTION B-B
Scale: 1/125 @ A1, 1/250 @ A3



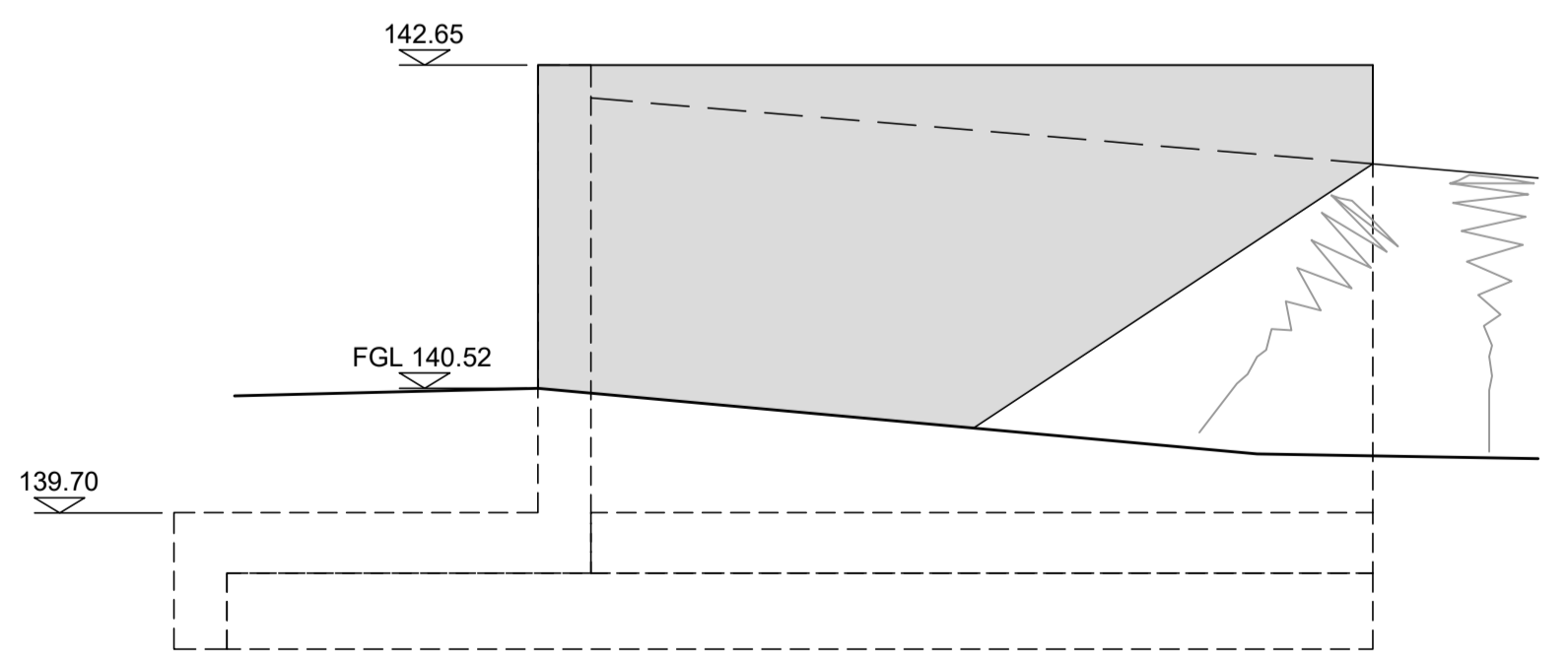
SECTION C-C
Scale: 1/125 @ A1, 1/250 @ A3



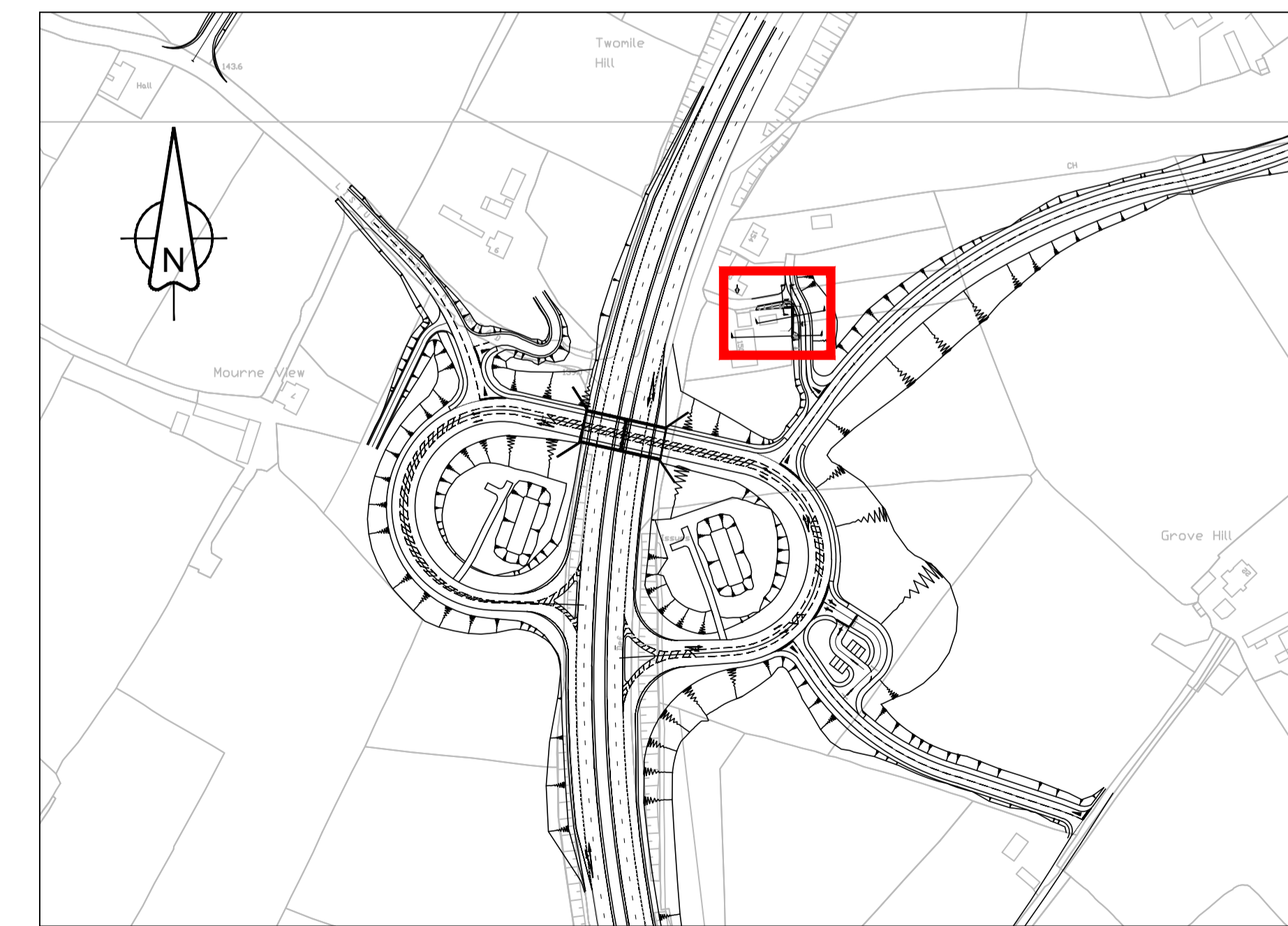
SECTION D-D
Scale: 1/125 @ A1, 1/250 @ A3



ELEVATION 1
Scale: 1/50 @ A1, 1/100 @ A3



ELEVATION 2
Scale: 1/50 @ A1, 1/100 @ A3



LOCATION PLAN
Scale: 1/2500 @ A1, 1/5000 @ A3

Drawing Title
**RETAINING WALL
GENERAL ARRANGEMENT - J1**

Drawing Number
TNI Ref | Originator | Volume | Location | Type | Discipline | Classification | Number
168014-RPSD-SBR-J1-DR-S-1700-00002

Rev
P1.0

Drawing Status S2	Suitability ISSUE FOR INFORMATION	Project Ref No. IBH0488
Scale AS SHOWN	Designed MN	Drawn By PH
Original Size A1	Checked PB	Authorised MC
Date 14.12.18	Date 14.12.18	Date 19.02.19

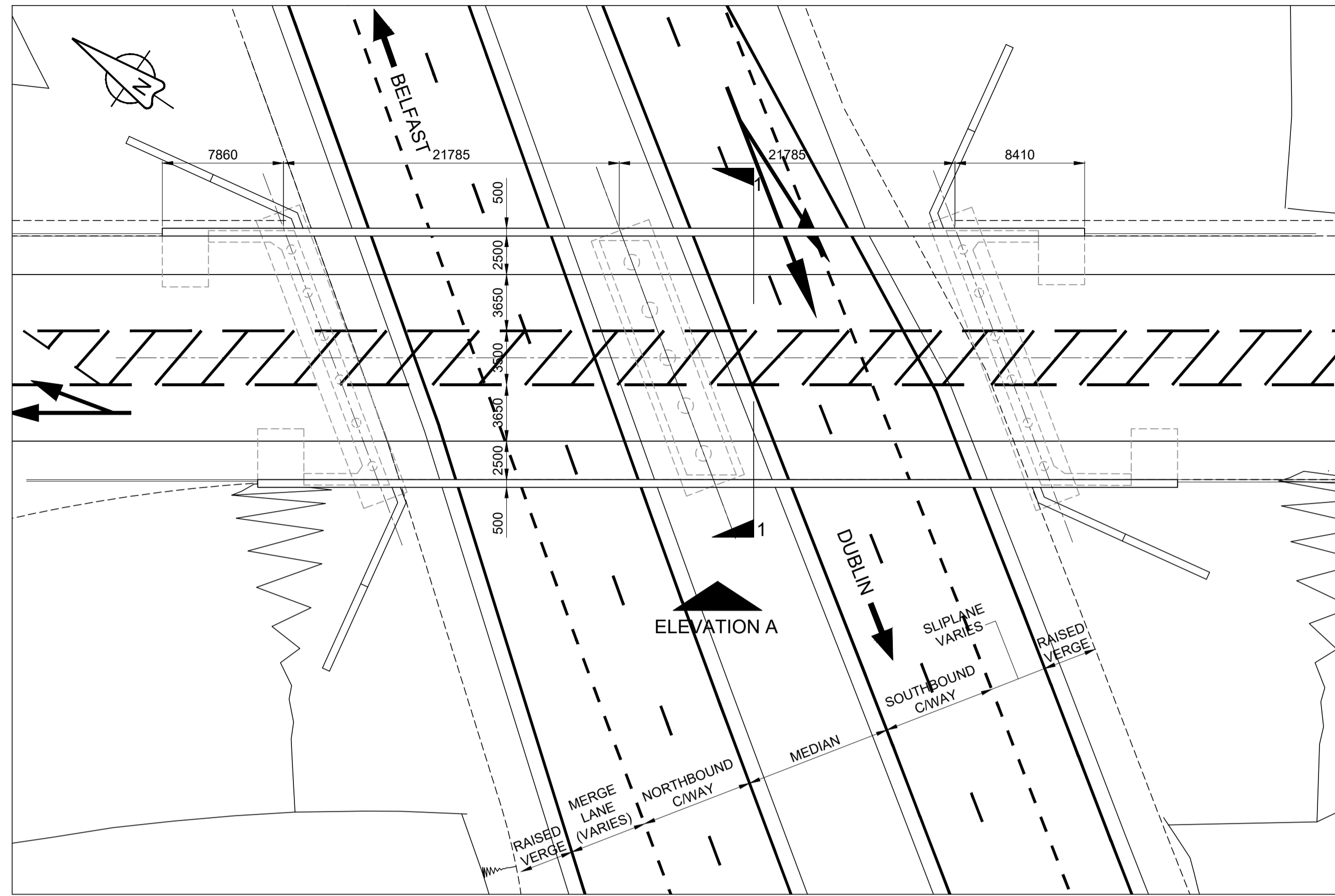


Elmwood House
74 Boucher Road
Belfast
BT12 6RZ

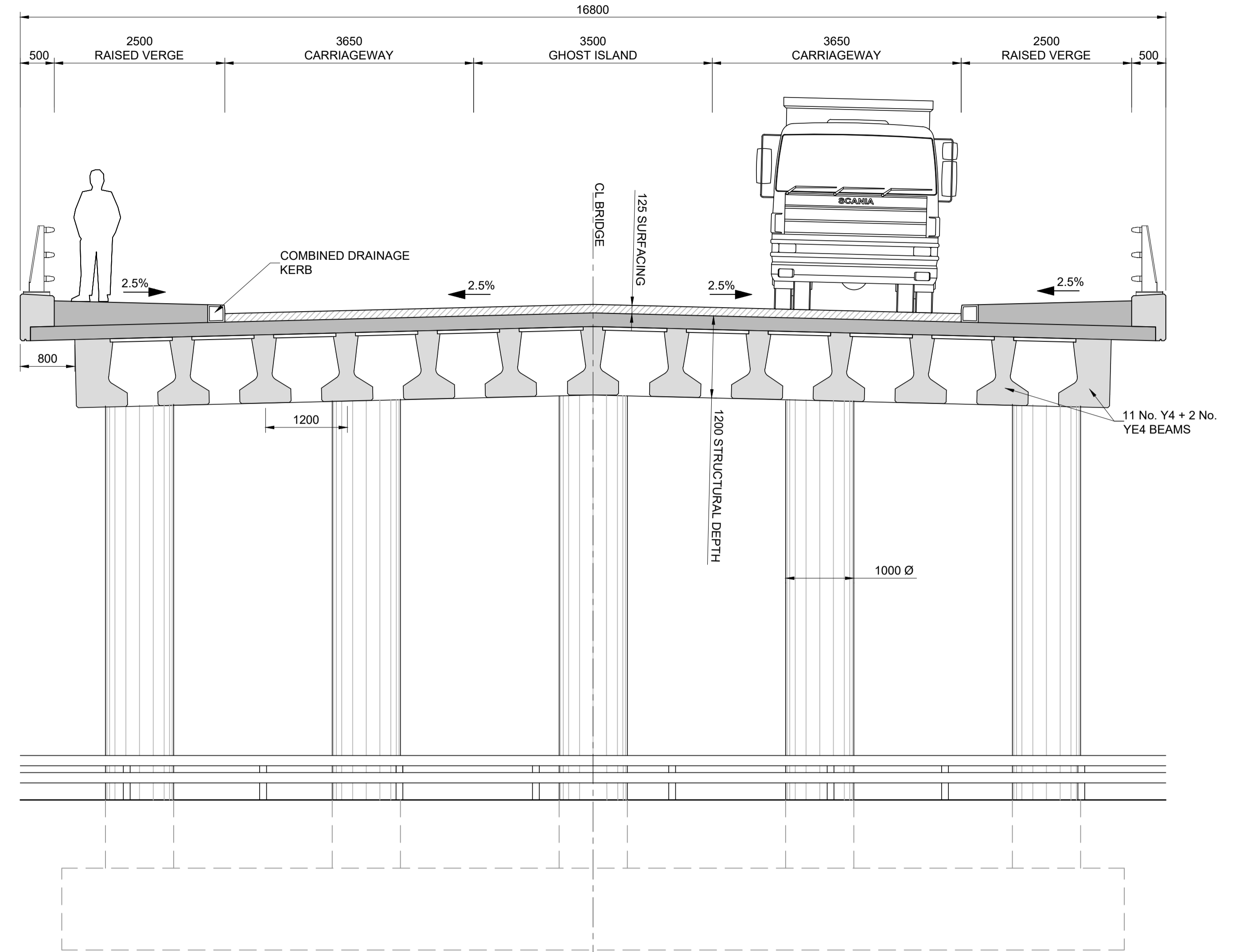
T +44 (0) 28 90 667914
F +44 (0) 28 90 668286
W www.rpsgroup.com/ireland
E ireland@rpsgroup.com

This drawing may only be used for the purpose intended and only written dimensions should be used.

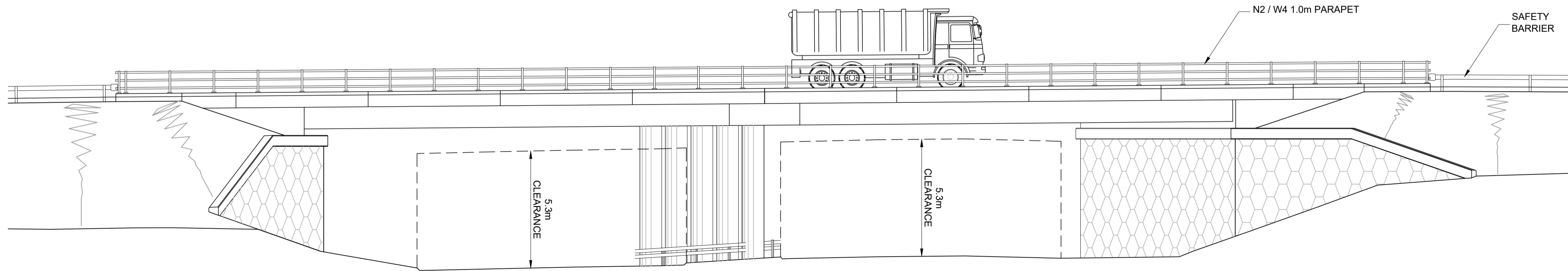
D1	ISSUE FOR REVIEW	PH	250718
----	------------------	----	--------



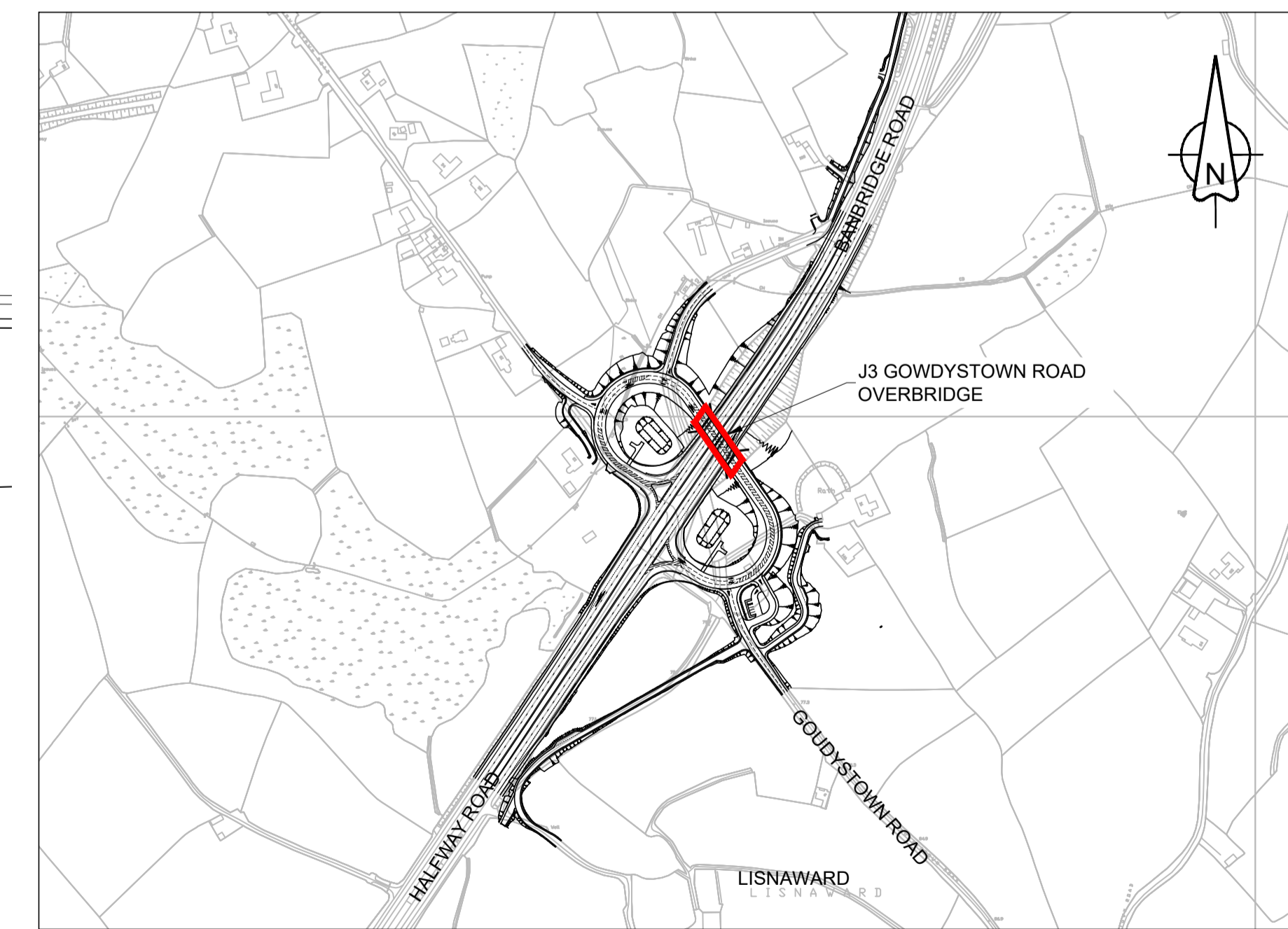
PLAN
Scale: 1/250 @ A1, 1/500 @ A3



SECTION 1-1
Scale: 1/50 @ A1, 1/100 @ A3



ELEVATION A
Scale: 1/125 @ A1, 1/250 @ A3



LOCATION PLAN
Scale: 1/5000 @ A1, 1/10000 @ A3

Drawing Title
BRIDGE GENERAL ARRANGEMENT - J3

Drawing Number
TNI Ref | Originator | Volume | Location | Type | Discipline | Classification | Number
168014-RPSD-SBR-J3-DR-S-1700-00001

Rev
P1.0

Drawing Status S2		Suitability ISSUE FOR INFORMATION		Project Ref No. IBH0488	
Scale AS SHOWN	Designed MN	Drawn By PH	Checked MN	Authorised MC	
Original Size A1	Date 14.12.18	Date 14.12.18	Date 14.12.18	Date 19.02.19	

Client
Department for Infrastructure
An Roinn
Bonneagair
www.infrastructure-ni.gov.uk

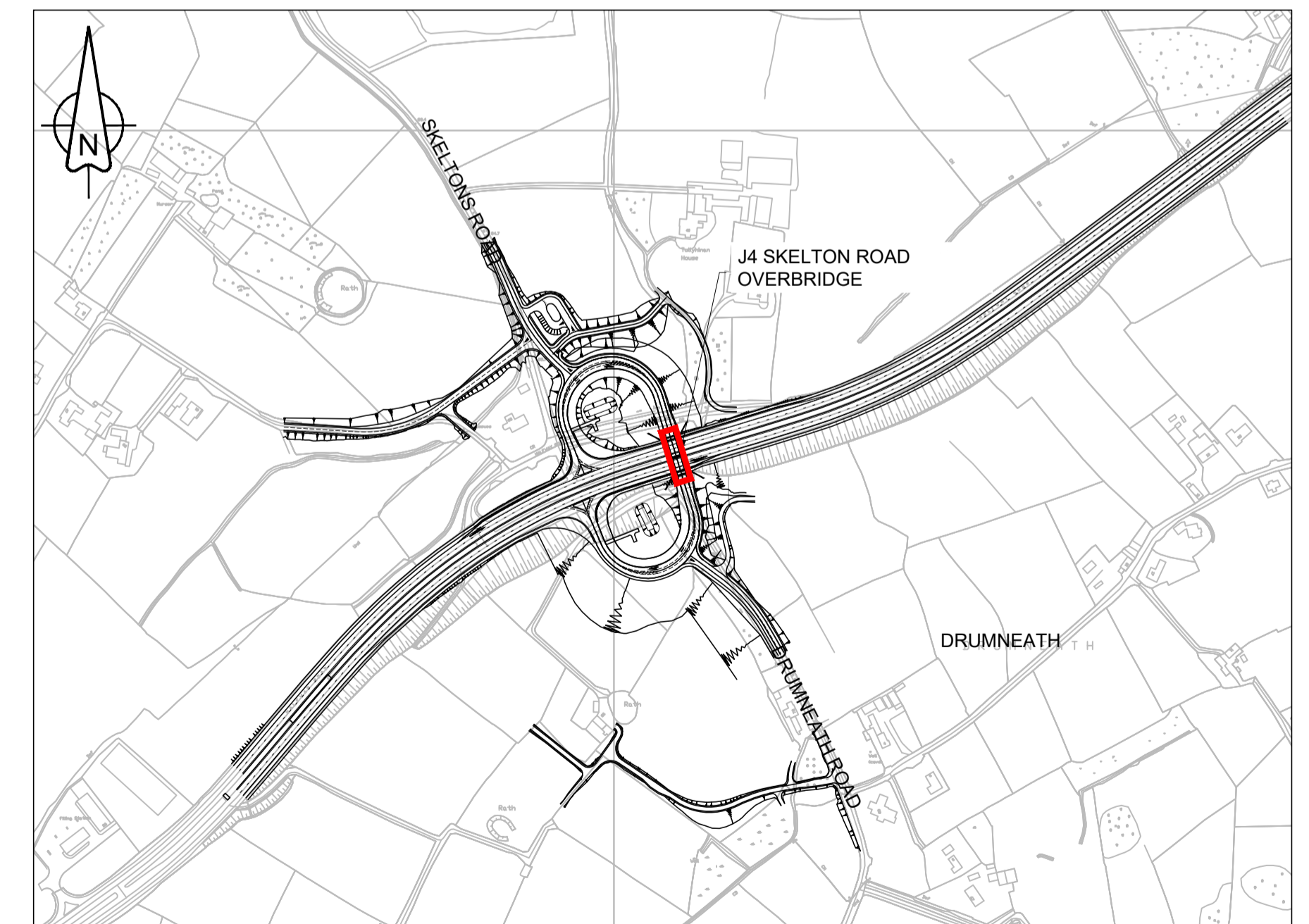
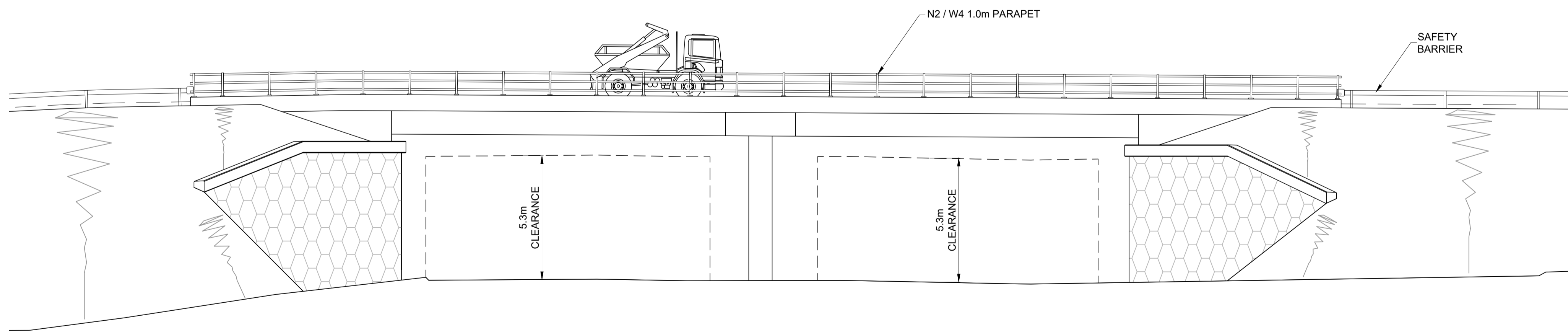
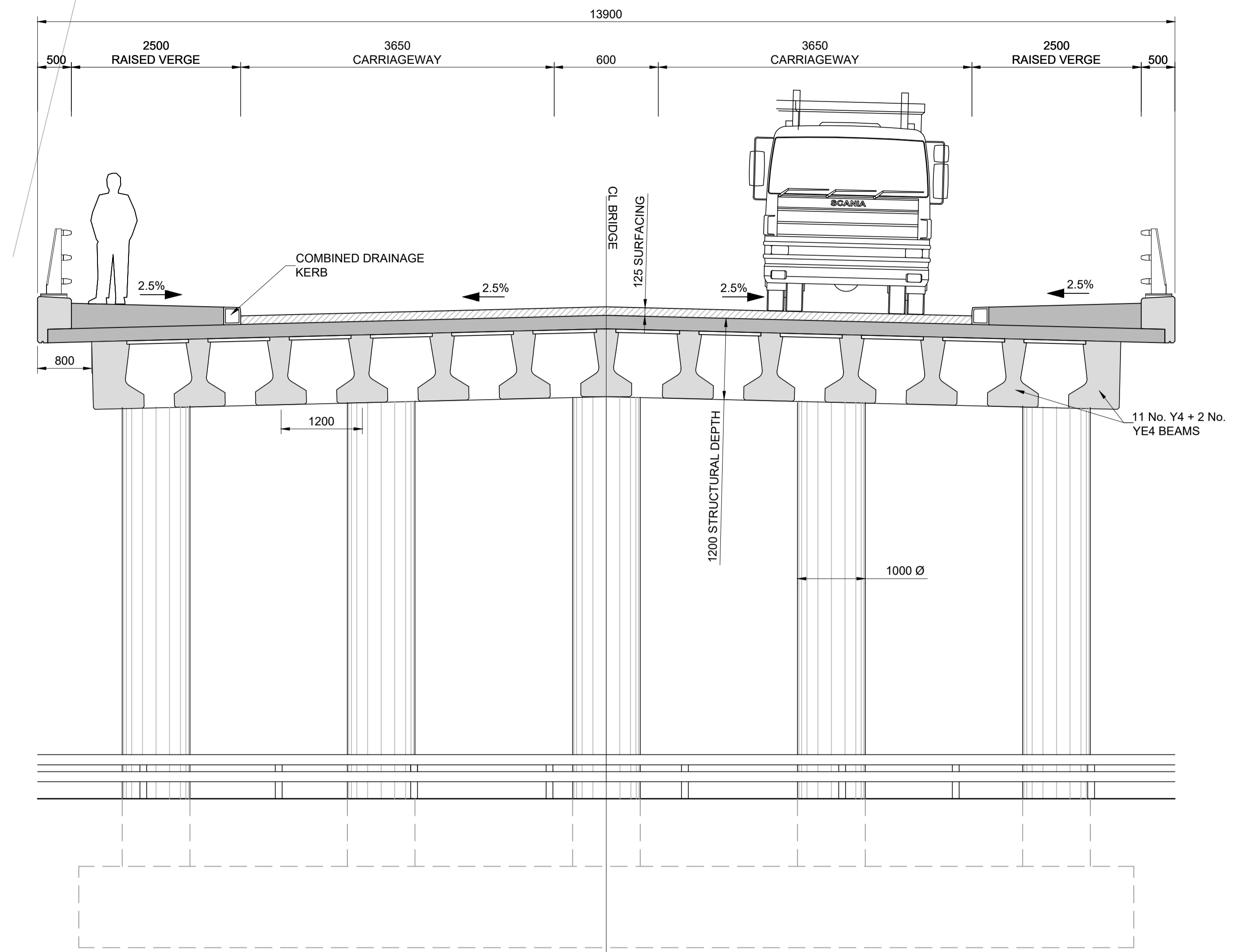
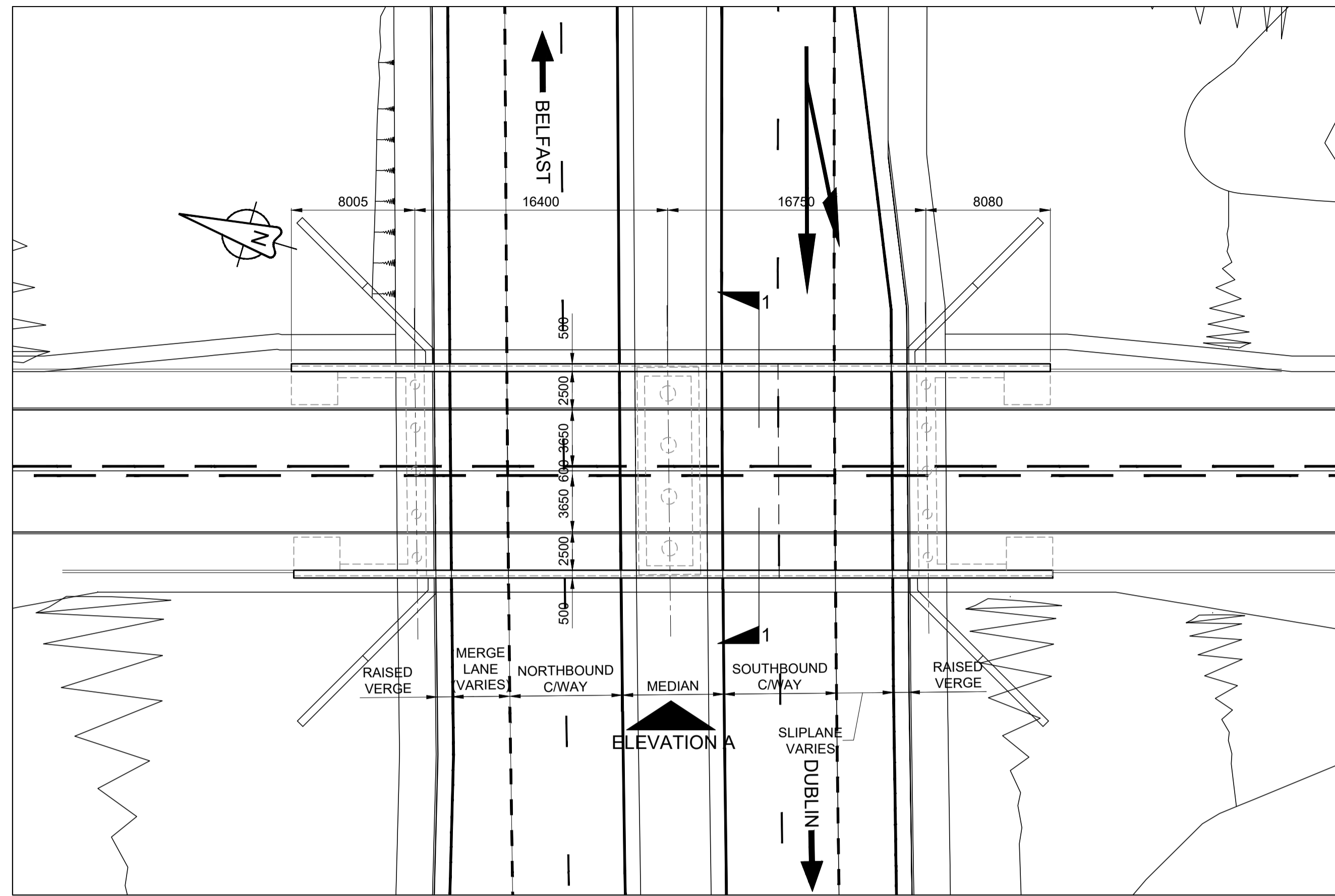
Project
A1 Junctions Phase 2

Consultant
RPS
SWECO

Elmwood House
74 Boucher Road
Belfast
BT12 6RZ
T +44 (0) 28 90 667914
F +44 (0) 28 90 668286
W www.rpsgroup.com/ireland
E ireland@rpsgroup.com

This drawing may only be used for the purpose intended and only written dimensions should be used.

D2	ISSUE FOR REVIEW	PH	250718
D1	ISSUE FOR REVIEW	PH	210317



Drawing Title
BRIDGE GENERAL ARRANGEMENT - J4

Drawing Number
TNI Ref | Originator | Volume | Location | Type | Discipline | Classification | Number
168014-RPSD-SBR-J4-DR-S-1700-00001

Rev
P1.0

Drawing Status S2	Suitability ISSUE FOR INFORMATION	Project Ref No. IBH0488
Scale AS SHOWN	Designed MN	Drawn By PH
Original Size A1	Date 14.12.18	Date 14.12.18
	Checked MN	Date 14.12.18
	Authorised MC	Date 19.02.19

Client
Department for
Infrastructure
An Roinn
Bonneagair
www.infrastructure-ni.gov.uk

Project
A1 Junctions
Phase 2

Consultant
RPS
SWECO

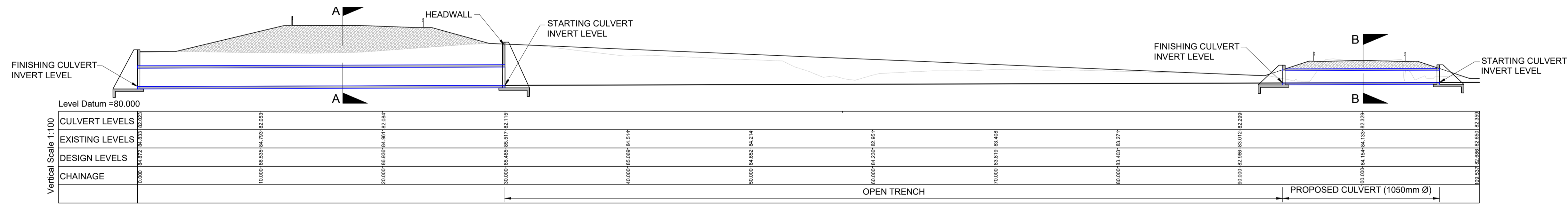
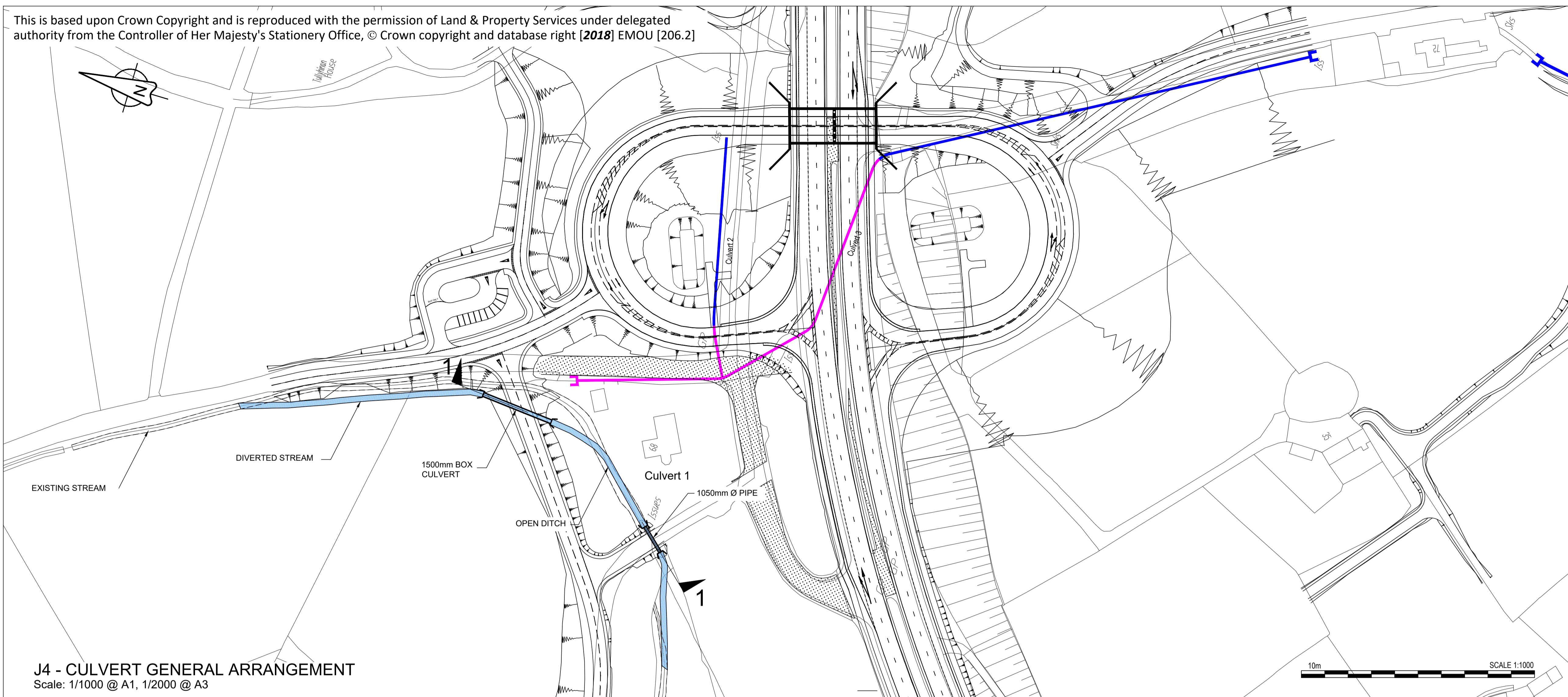
Einwood House
74 Boucher Road
Belfast
BT12 6RZ

T +44 (0) 28 90 667914
F +44 (0) 28 90 668286
W www.rpsgroup.com/ireland
E ireland@rpsgroup.com

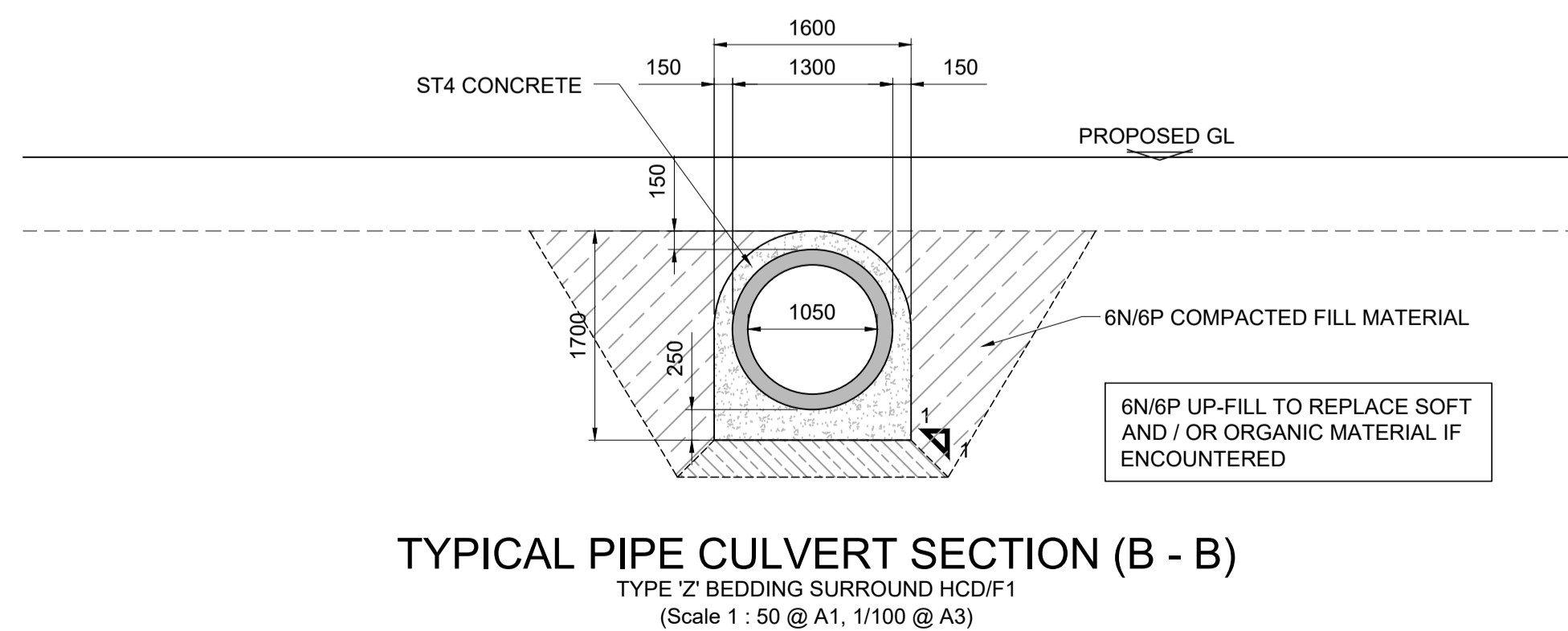
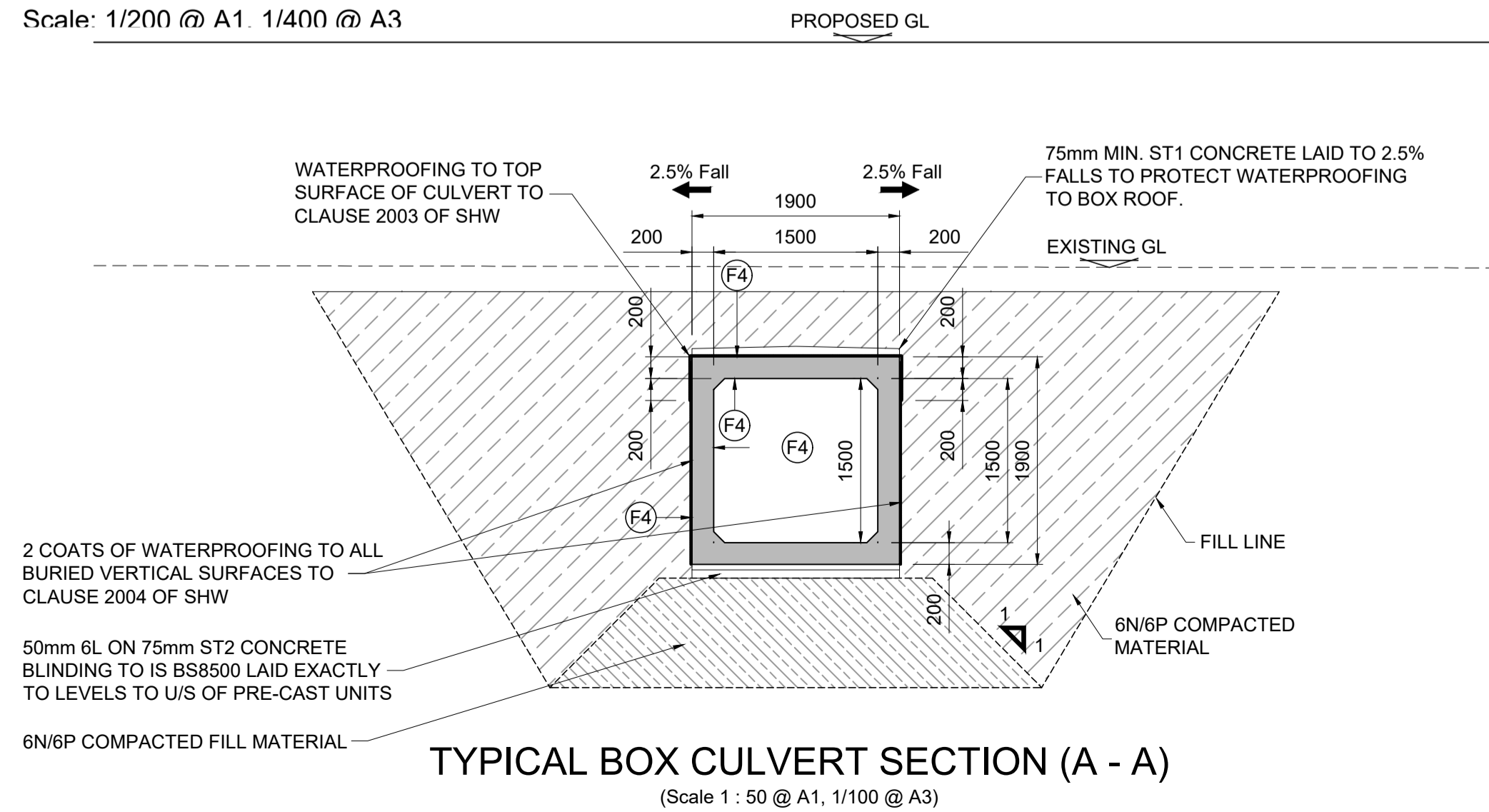
This drawing may only be used for the purpose intended and only written dimensions should be used.

D2	ISSUE FOR REVIEW	PH	250718
D1	ISSUE FOR REVIEW	PH	210317

This is based upon Crown Copyright and is reproduced with the permission of Land & Property Services under delegated authority from the Controller of Her Majesty's Stationery Office, © Crown copyright and database right [2018] EMOU [206.2]



CULVERT 1 - LONG SECTION 1-1
Scale: 1/200 @ A1, 1/400 @ A3



- NOTES**
- Verifying Dimensions.
The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.
 - Existing Services.
Any information concerning the location of existing services indicated on this drawing is intended for general guidance only. It shall be the responsibility of the contractor to determine and verify the exact horizontal and vertical alignment of all cables, pipes, etc. (both underground and overhead) before work commences.
 - Issue of Drawings.
Hard copies, dxf and pdf will form a controlled issue of the drawing. All other formats (dwg, dxf etc.) are deemed to be an uncontrolled issue and any work carried out based on these files is at the recipient's own risk. RPS will not accept any responsibility for any errors arising from the use of these files, either by human error by the recipient, listing of un-dimensioned measurements, compatibility issues with the recipient's software, and any errors arising when these files are used to aid the recipient's drawing production, or setting out on site.

4. DATUM: Irish Grid

REV	COMMENT	DRAWN	CH	AP	DATE

RPS **SWECO**

Elmwood House
74 Boucher Road
Belfast
BT12 6RZ

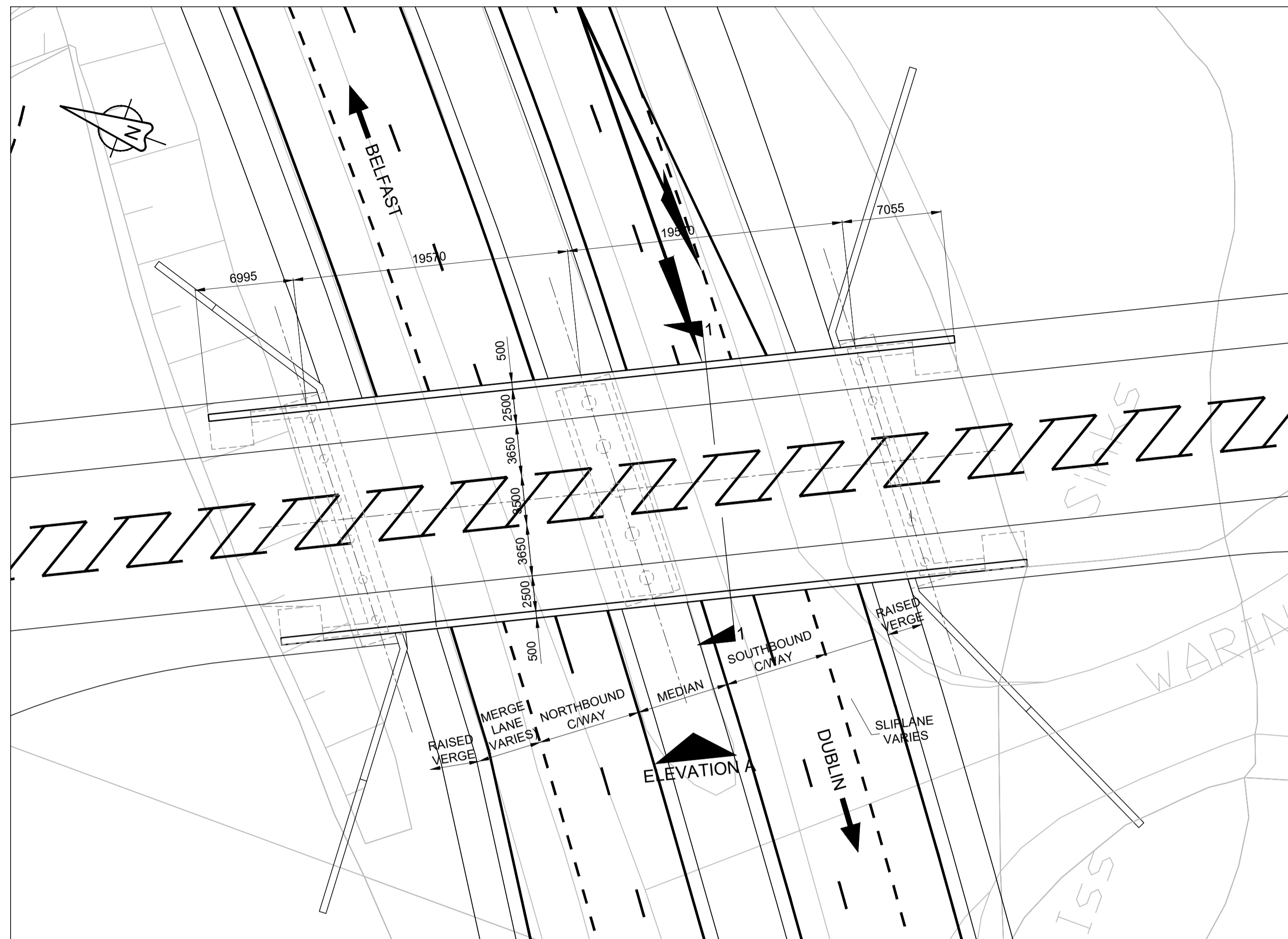
T +44 (0) 28 90 667914
F +44 (0) 28 90 666280
W www.rpsgroup.com/ireland
E ireland@rpsgroup.com

Client: Department for Infrastructure
An Roinn
Bonneagair
www.infrastructure-ni.gov.uk

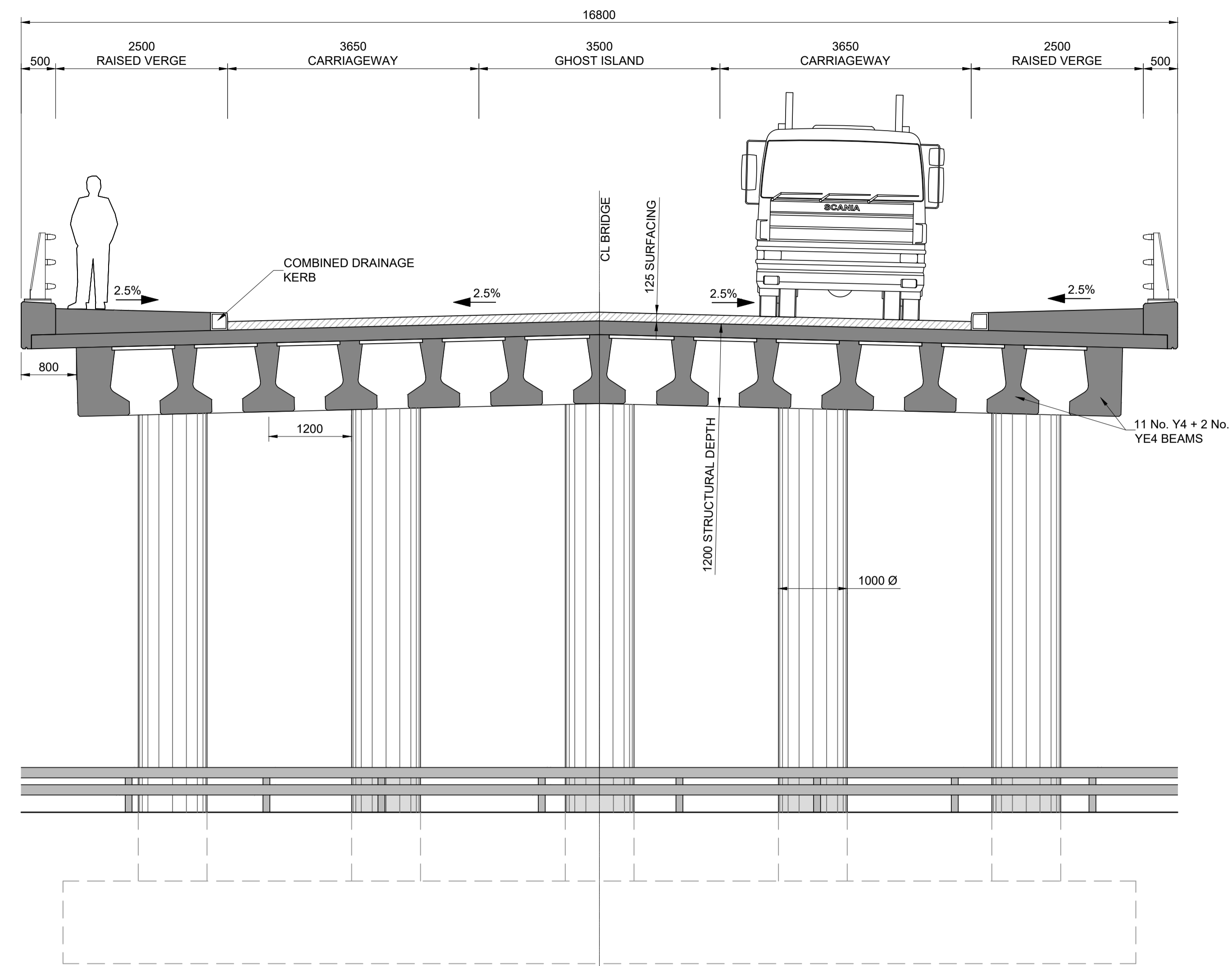
Project: **A1 Junctions Phase 2**

Title: **J4 - SKELTONS TYPICAL CULVERT OPTIONS**

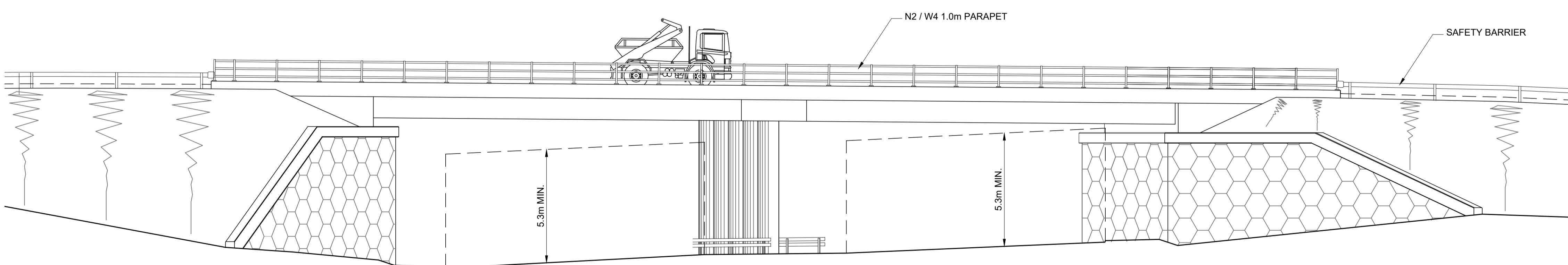
Drawing Status	Suitability	Project Ref No.		
S2	ISSUE FOR INFORMATION	IBH0488		
Scale	Designed	Drawn By	Checked	Authorised
A1	NT	PH	JB	MC
Original Size	Date	Date	Date	Date
A1	14.12.18	14.12.18	14.12.18	19.02.19
Drawing Number	Rev P1.0			
TNI Ref Originator Volume Location Type Discipline Classification Number				
168014-RPSD-SMN-J4-DR-D1700-00002				



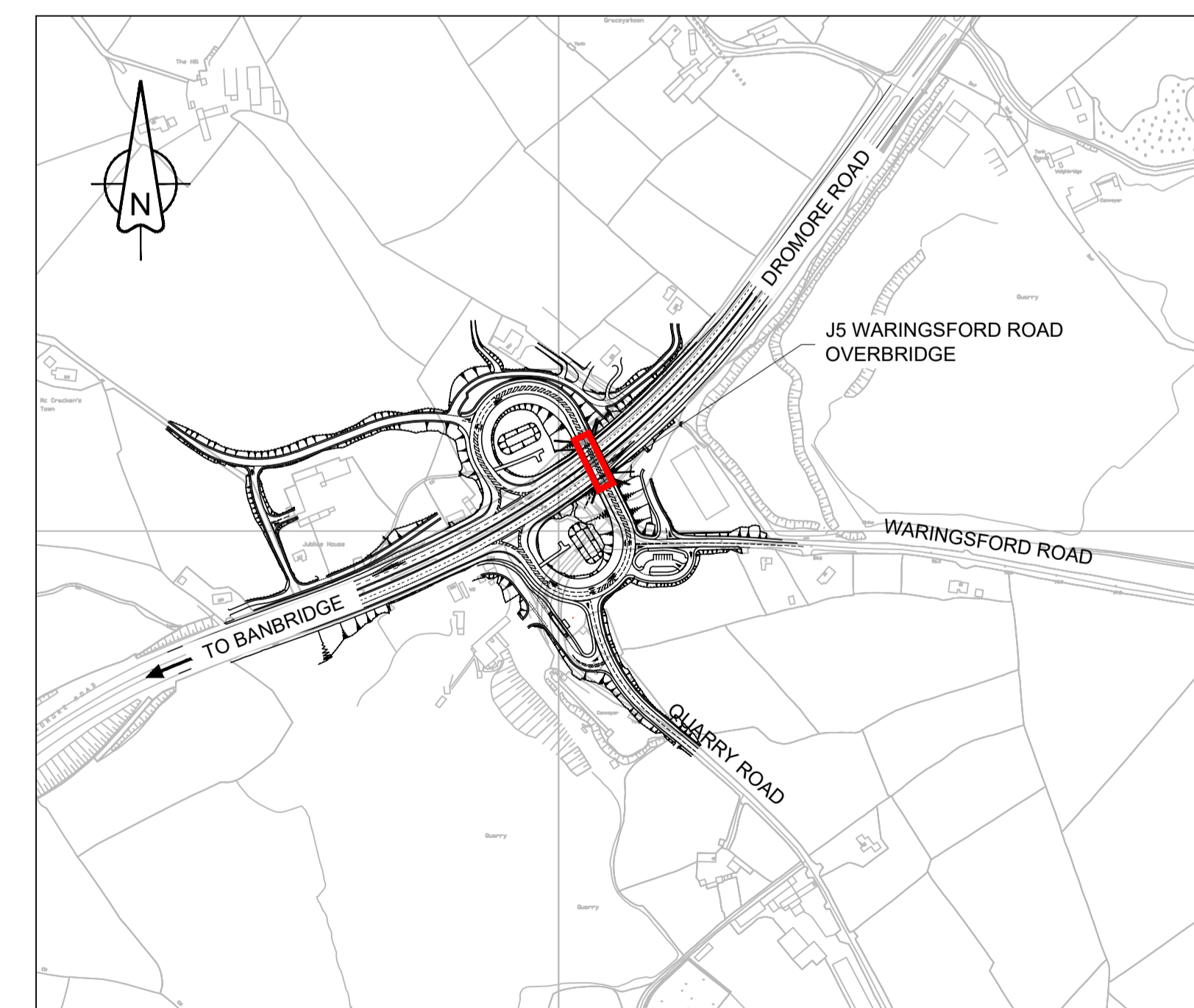
PLAN
Scale: 1/250 @ A1, 1/500 @ A3



SECTION 1-1
Scale: 1/50 @ A1, 1/100 @ A3



ELEVATION A
Scale: 1/125 @ A1, 1/250 @ A3



LOCATION PLAN
Scale: 1/5000 @ A1, 1/10000 @ A3

Drawing Title
BRIDGE GENERAL ARRANGEMENT - J5

Drawing Number
TNI Ref | Originator | Volume | Location | Type | Discipline | Classification | Number
168014-RPSD-SBR-J5-DR-S-1700-00001

Rev
P1.0

Drawing Status		Suitability				Project Ref No.
S2	AS SHOWN	MN	PH	MN	MC	IBH0488
Original Size	Date	Date	Date	Date	Date	
A1	14.12.18	14.12.18	14.12.18	19.02.19		

Client
Department for Infrastructure
An Roinn
Bonneagair
www.infrastructure-ni.gov.uk

Project
A1 Junctions Phase 2

Consultant
RPS
SWECO

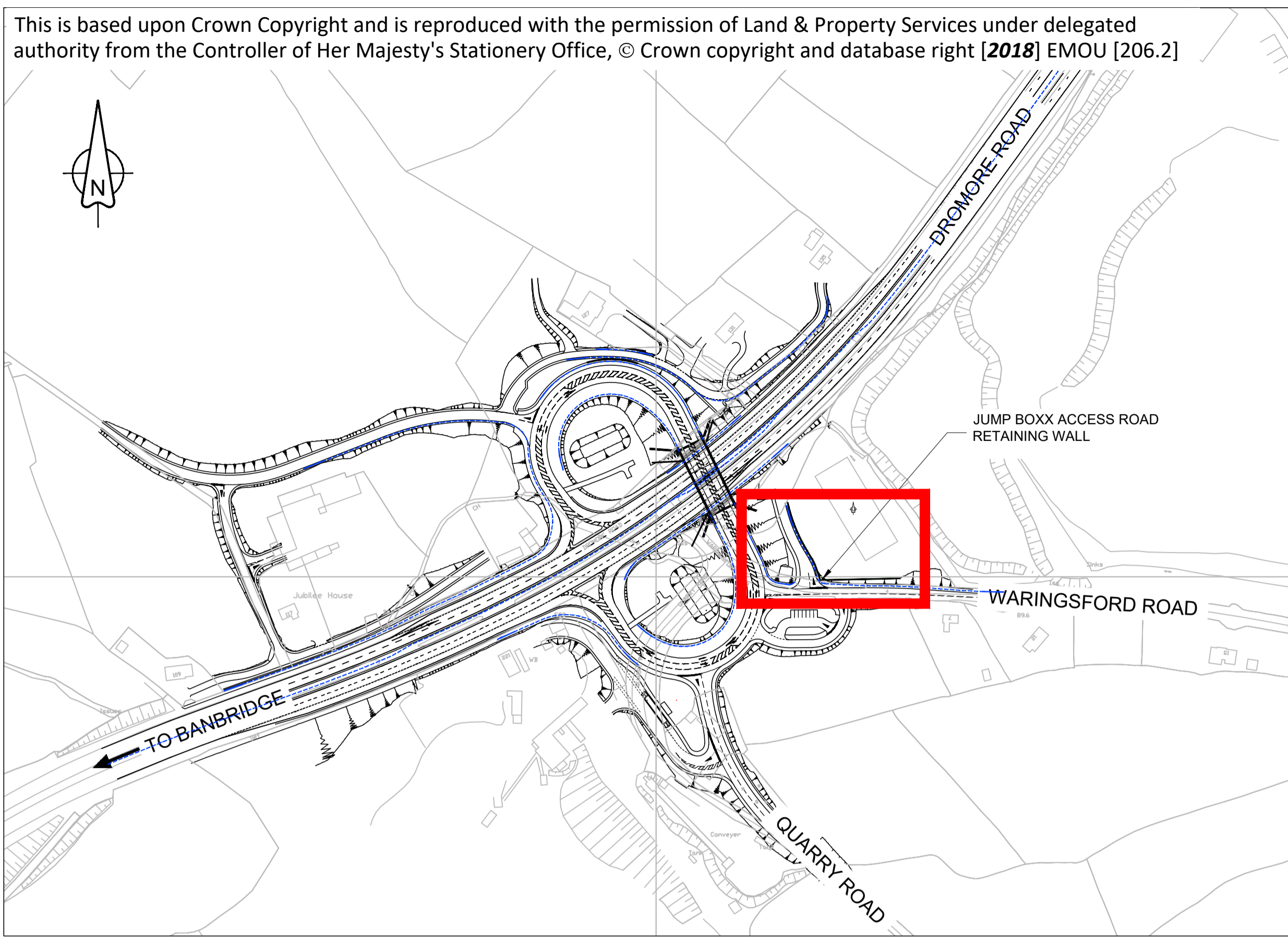
Einwood House
74 Boucher Road
Belfast
BT12 6RZ

T +44 (0) 28 90 667914
F +44 (0) 28 90 668286
W www.rpsgroup.com/ireland
E ireland@rpsgroup.com

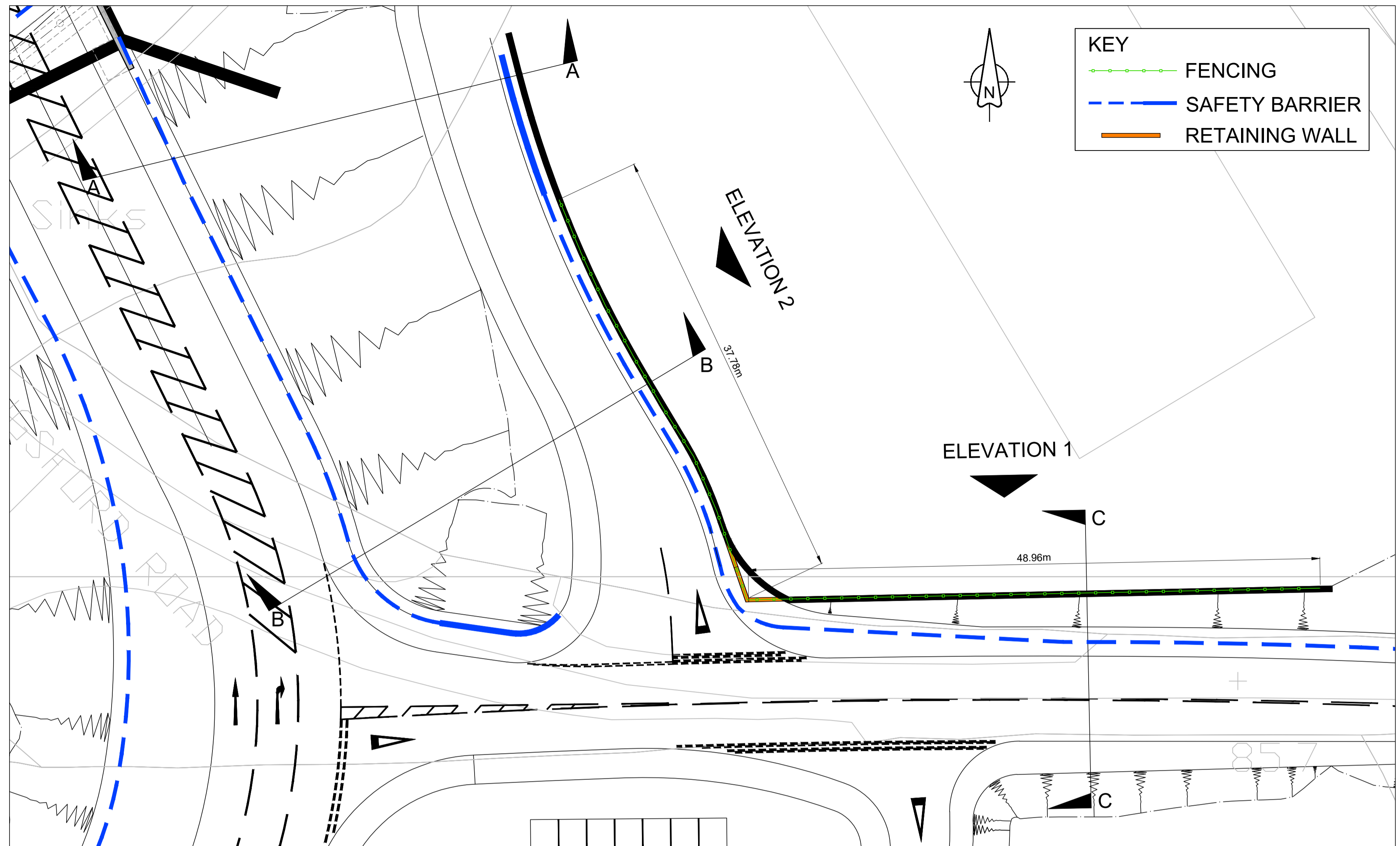
This drawing may only be used for the purpose intended and only written dimensions should be used.

Issue	Date	By	For
D6	ISSUE FOR REVIEW	PH	250718
D5	ISSUE FOR REVIEW	PH	210318
D4	ISSUE FOR REVIEW	PH	050218
D3	ISSUE FOR REVIEW	PH	130417
D2	ISSUE FOR REVIEW	PH	210317
D1	ISSUE FOR REVIEW	PH	160217

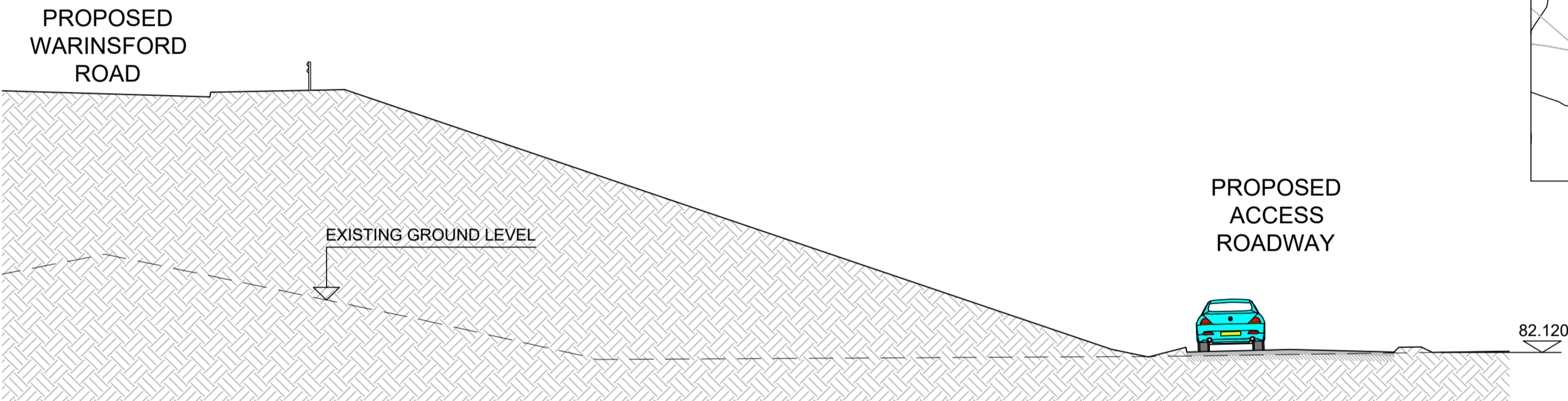
This is based upon Crown Copyright and is reproduced with the permission of Land & Property Services under delegated authority from the Controller of Her Majesty's Stationery Office, © Crown copyright and database right [2018] EMOU [206.2]



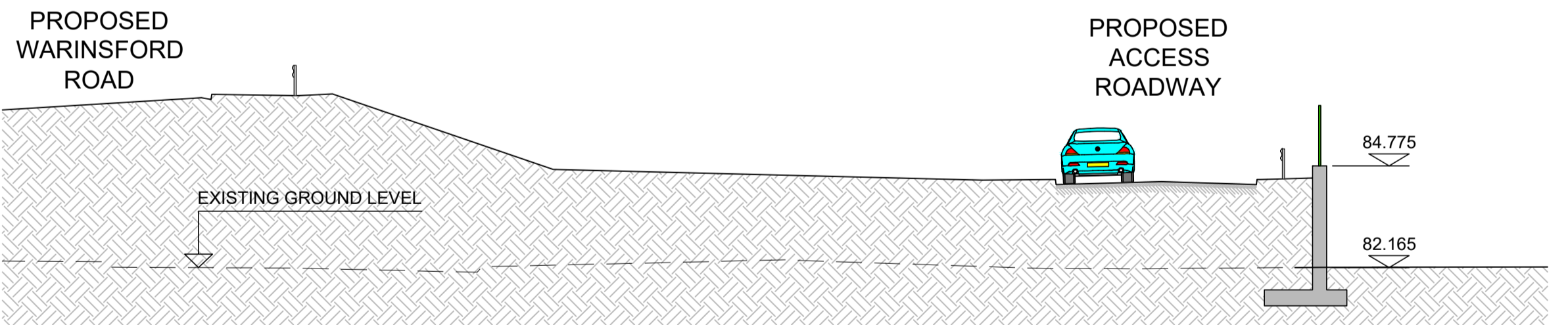
LOCATION PLAN
Scale: 1/2500 @ A1, 1/5000 @ A3



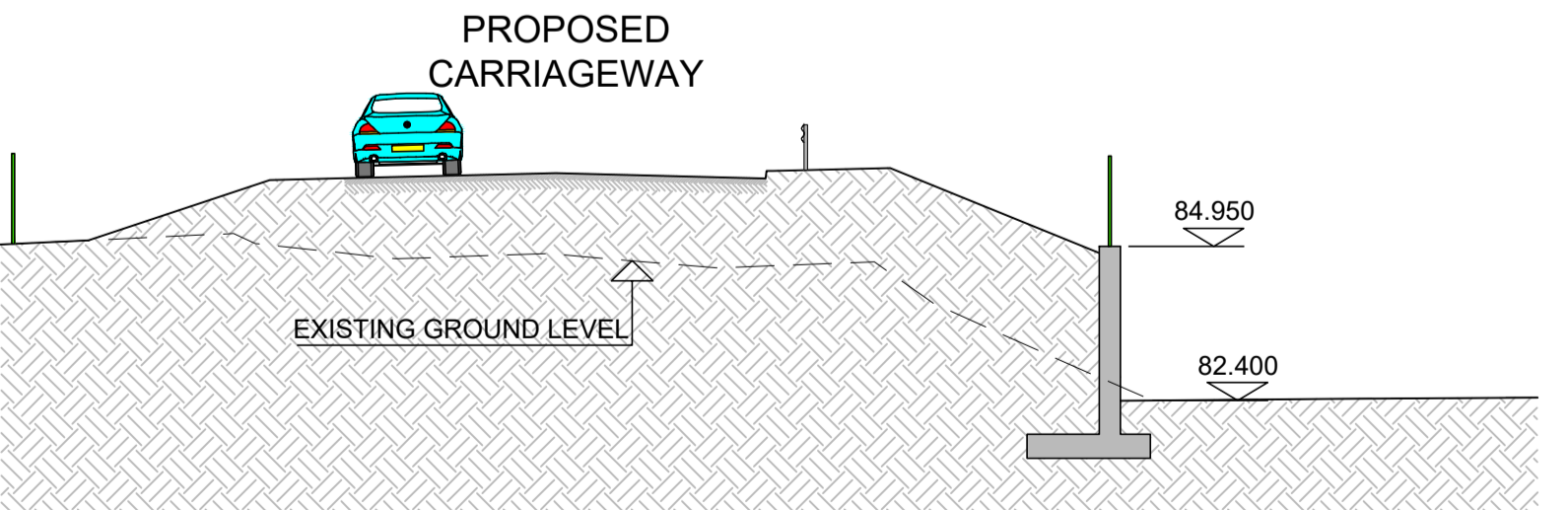
PLAN
Scale: 1/250 @ A1, 1/500 @ A3



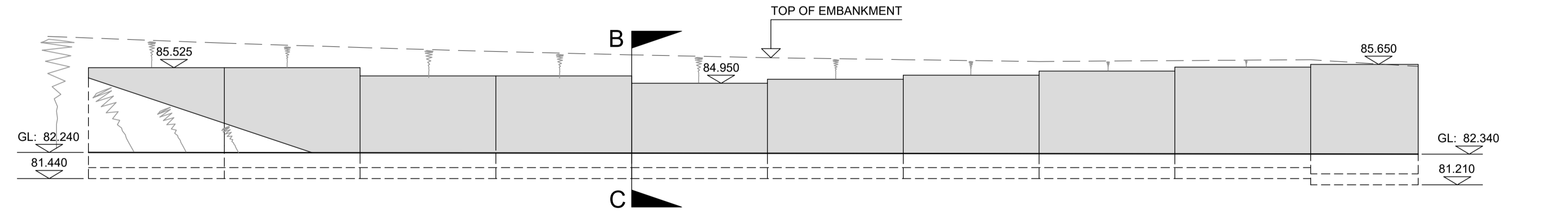
SECTION A-A
Scale: 1/125 @ A1, 1/250 @ A3



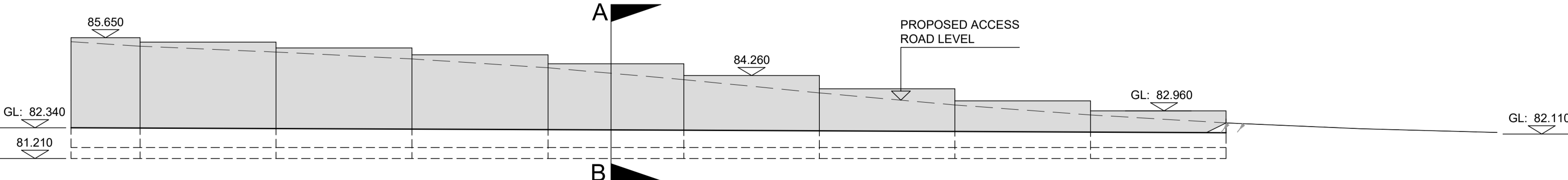
SECTION B-B
Scale: 1/125 @ A1, 1/250 @ A3



SECTION C-C
Scale: 1/125 @ A1, 1/250 @ A3



ELEVATION 1
Scale: 1/125 @ A1, 1/250 @ A3



ELEVATION 2
Scale: 1/125 @ A1, 1/250 @ A3

KEY

- FENCING
- SAFETY BARRIER
- RETAINING WALL

Drawing Title
**WARINGSFORD ROAD - J5
JUMP BOXX ACCESS ROAD RETAINING WALL
GENERAL ARRANGEMENT**

Drawing Number
168014-RPSD-SBR-J5-DR-S-1700-00002

Rev
P1.0

Drawing Status S2		Suitability ISSUE FOR INFORMATION			Project Ref No. IBH0488
Scale AS SHOWN	Designed MN	Drawn By PH	Checked MN	Authorised MC	
Original Size A1	Date 14.12.18	Date 14.12.18	Date 14.12.18	Date 19.02.19	

Client
Infrastructure
An Roinn
Bonneagair
www.infrastructure-ni.gov.uk

Project
A1 Junctions
Phase 2

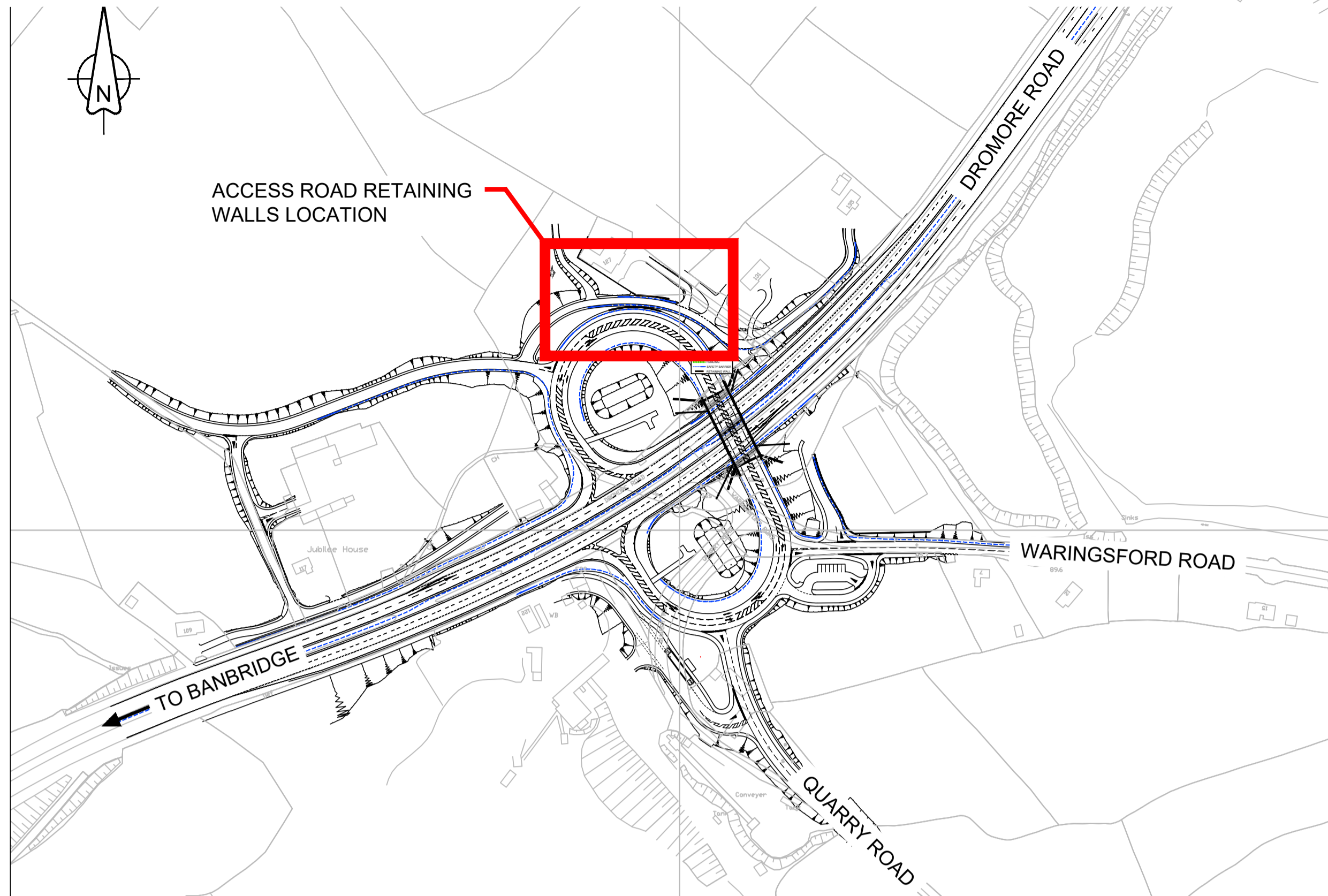
Consultant
RPS
SWECO

Einwood House
74 Boucher Road
Belfast
BT12 6RZ

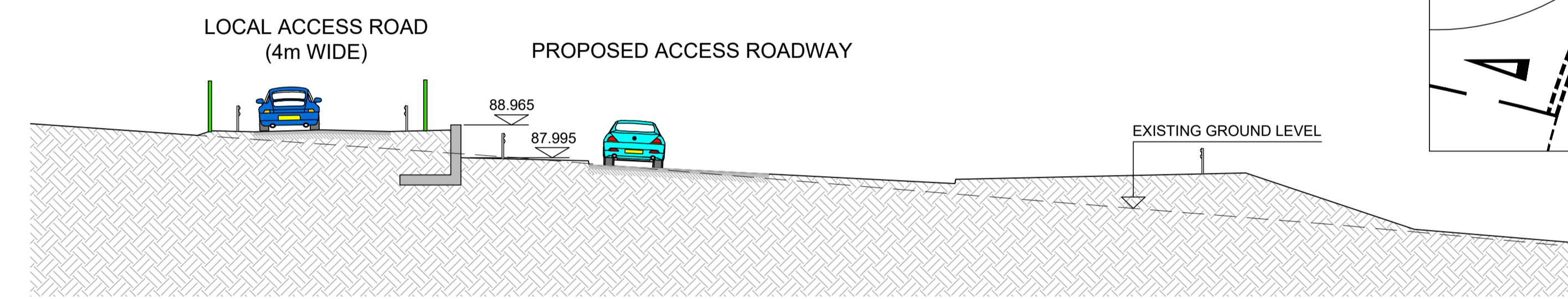
T +44 (0) 28 90 667914
F +44 (0) 28 90 668286
W www.rpsgroup.com/ireland
E ireland@rpsgroup.com

This drawing may only be used for the purpose intended and only written dimensions should be used.

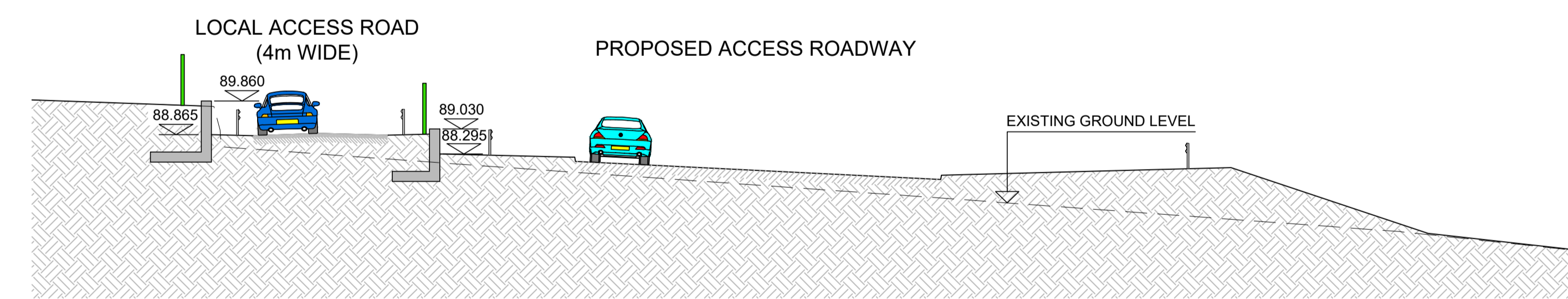
D1	ISSUE FOR REVIEW	PH	250718
----	------------------	----	--------



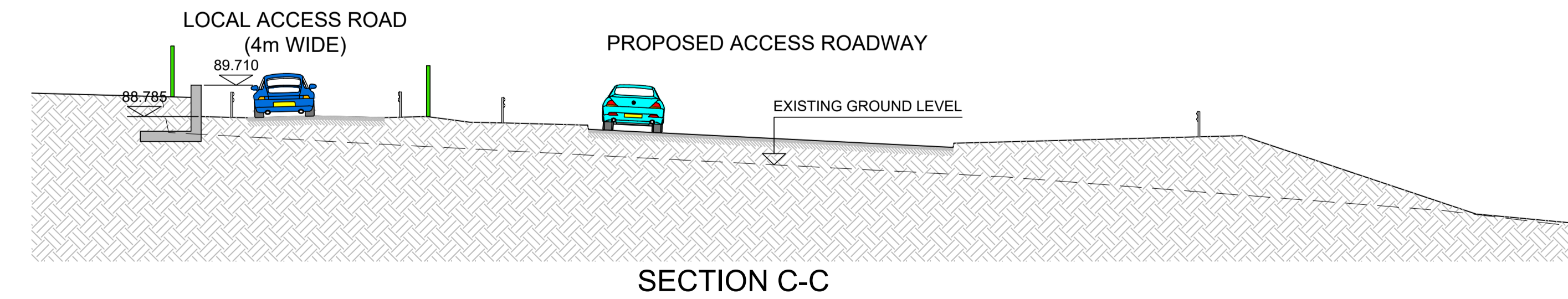
LOCATION PLAN
Scale: 1/2500 @ A1, 1/5000 @ A3



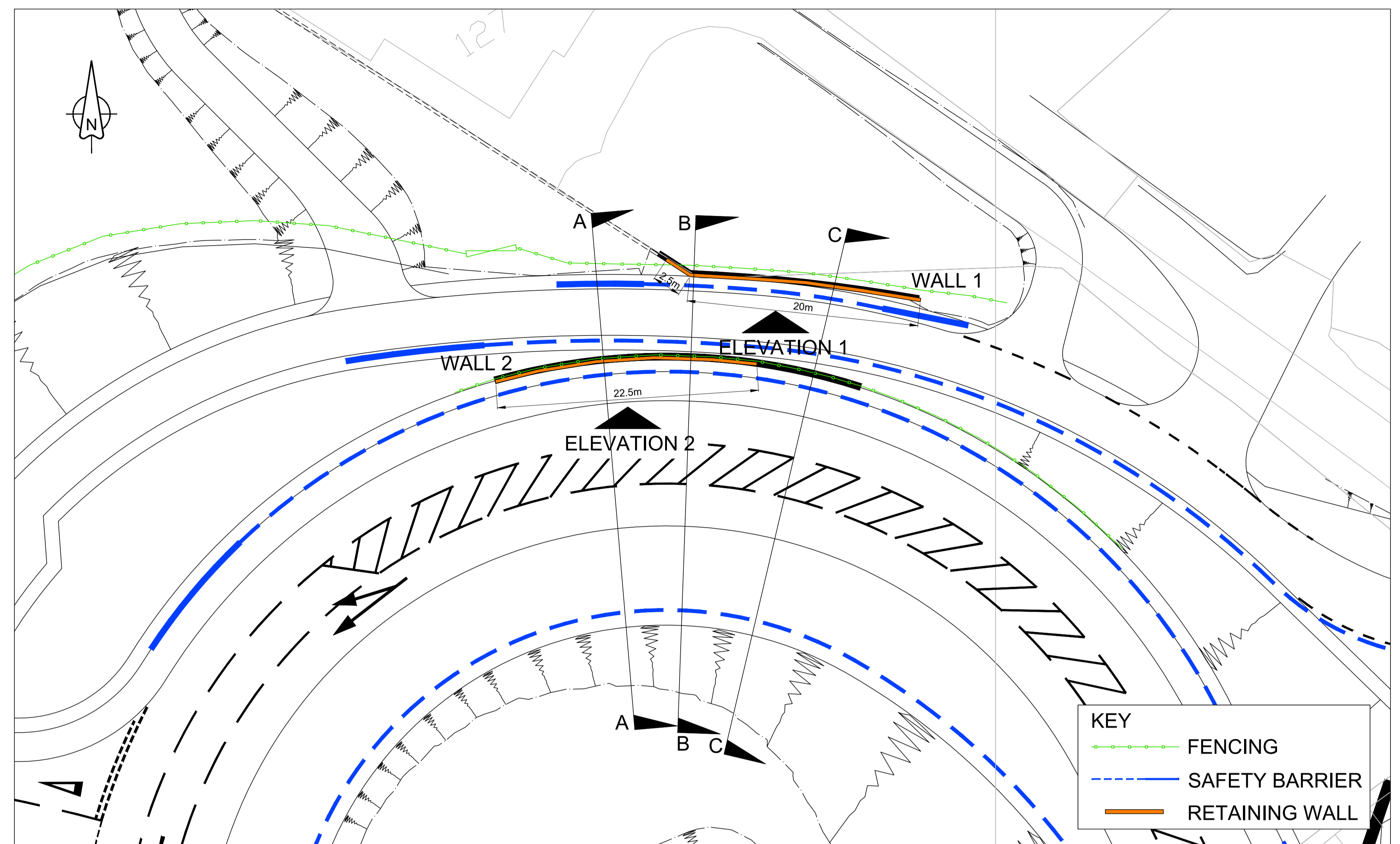
SECTION A-A
Scale: 1/125 @ A1, 1/250 @ A3



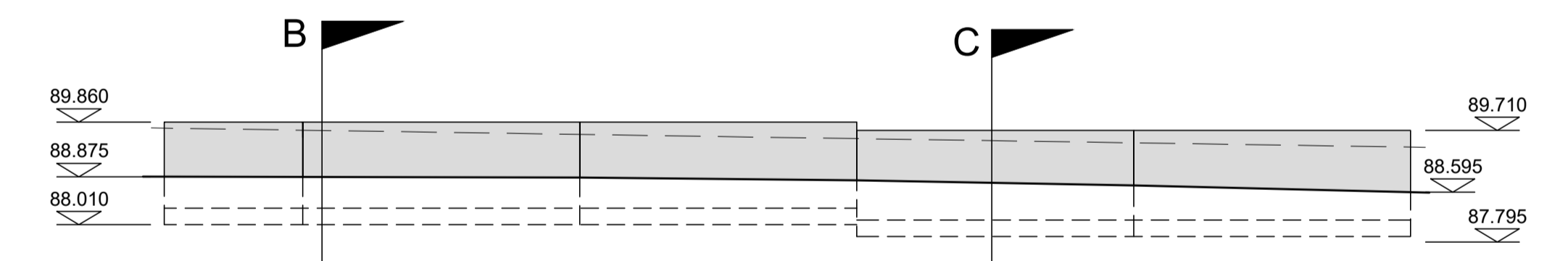
SECTION B-B
Scale: 1/125 @ A1, 1/250 @ A3



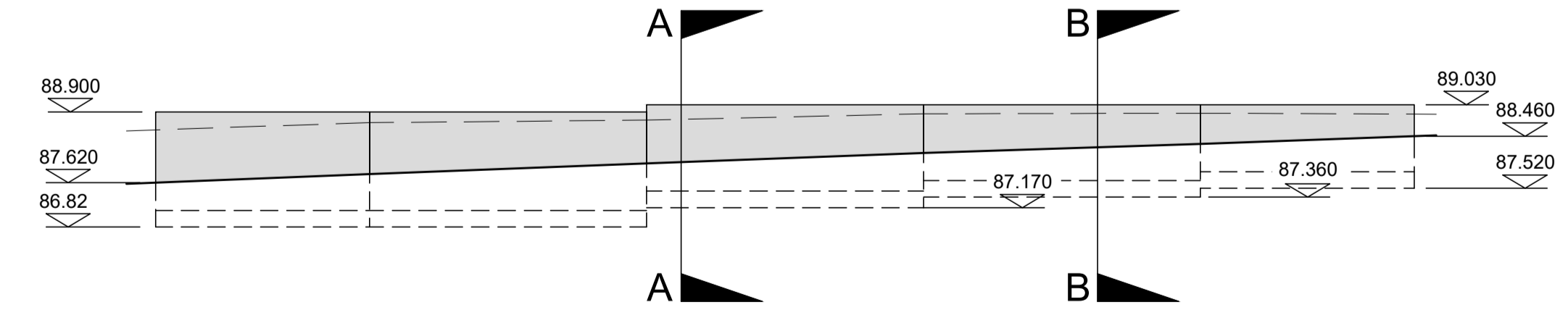
SECTION C-C
Scale: 1/125 @ A1, 1/250 @ A3



PLAN
Scale: 1/250 @ A1, 1/500 @ A3



ELEVATION 1 (WALL 1)
Scale: 1/100 @ A1, 1/200 @ A3



ELEVATION 2 (WALL 2)
Scale: 1/100 @ A1, 1/200 @ A3

Drawing Title		WARINGSFORD ROAD - J5 RESIDENTIAL ACCESS ROAD RETAINING WALL GENERAL ARRANGEMENT	
Drawing Number	Rev	168014-RPSD-SBR-J5-DR-S-1700-00003	
TNI Ref Originator Volume Location Type Discipline Classification Number		P1.0	

Drawing Status	Suitability	Project Ref No.	
S2	ISSUE FOR INFORMATION	IBH0488	
Scale	Designed	Drawn By	Checked
AS SHOWN	MN	PH	MN
Original Size	Date	Date	Date
A1	14.12.18	14.12.18	14.12.18
			19.02.19

Client

www.infrastructure-ni.gov.uk

Project

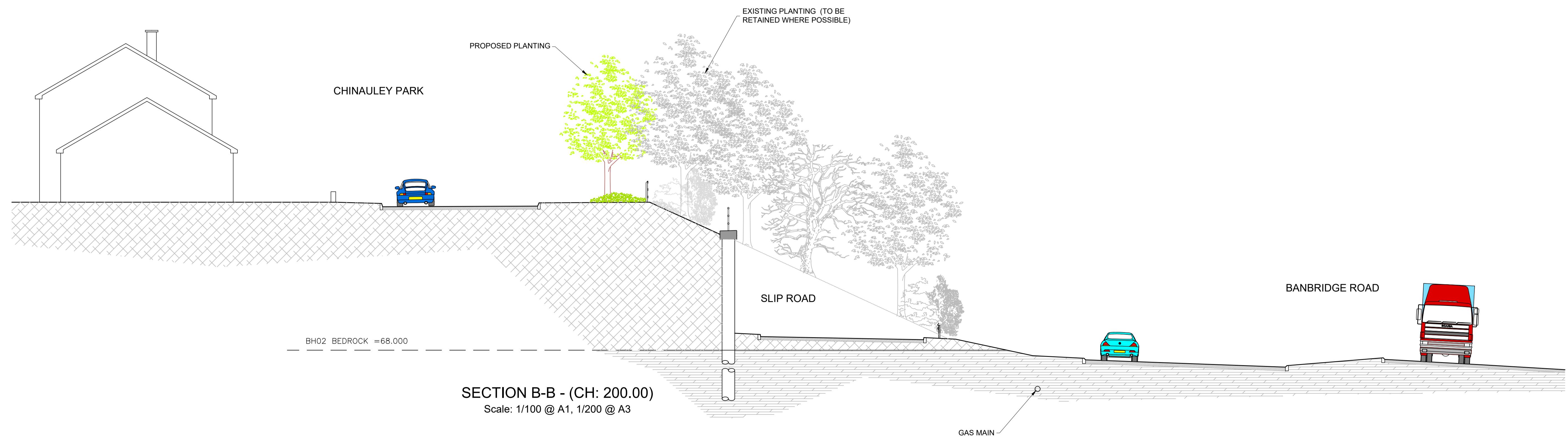
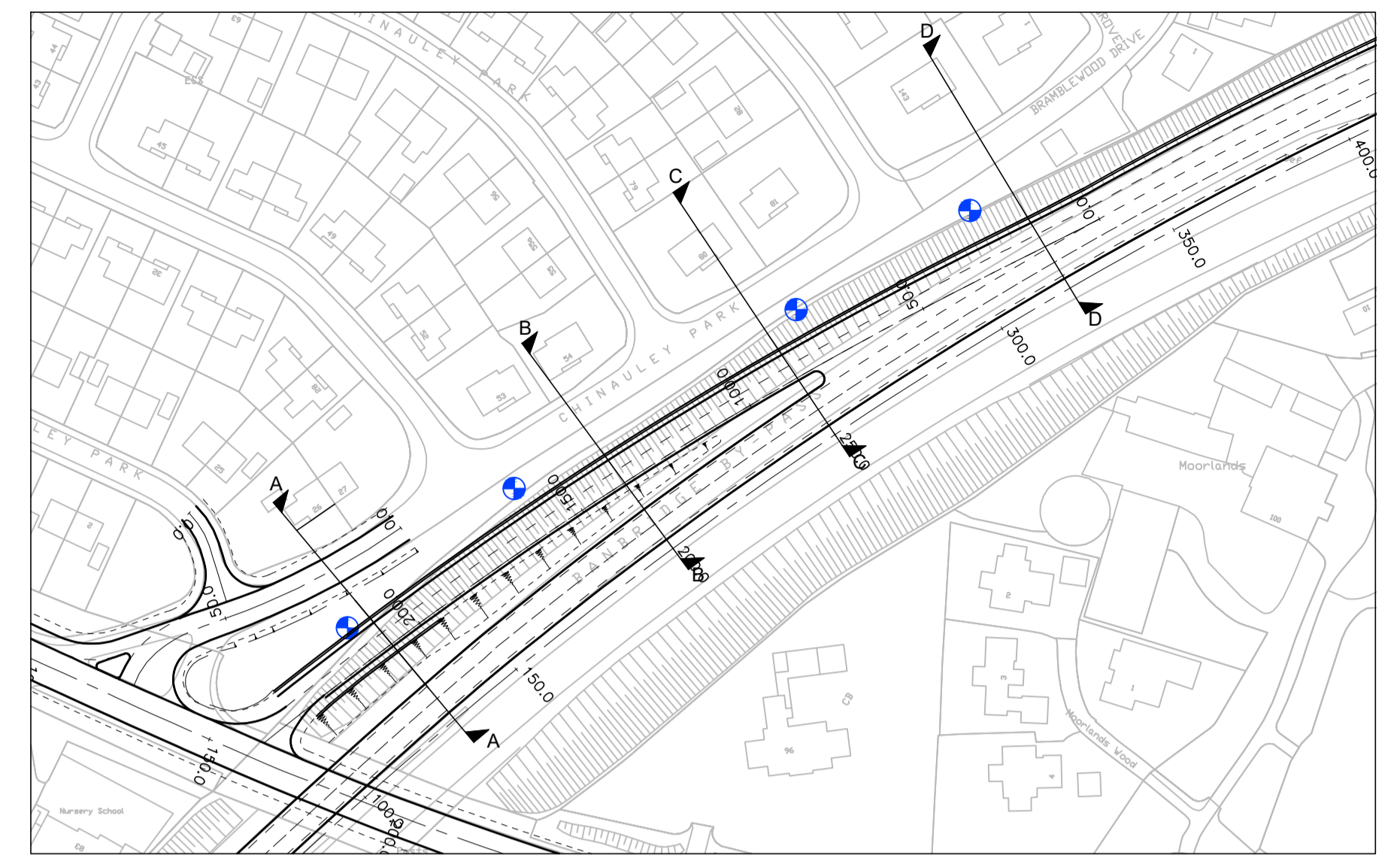
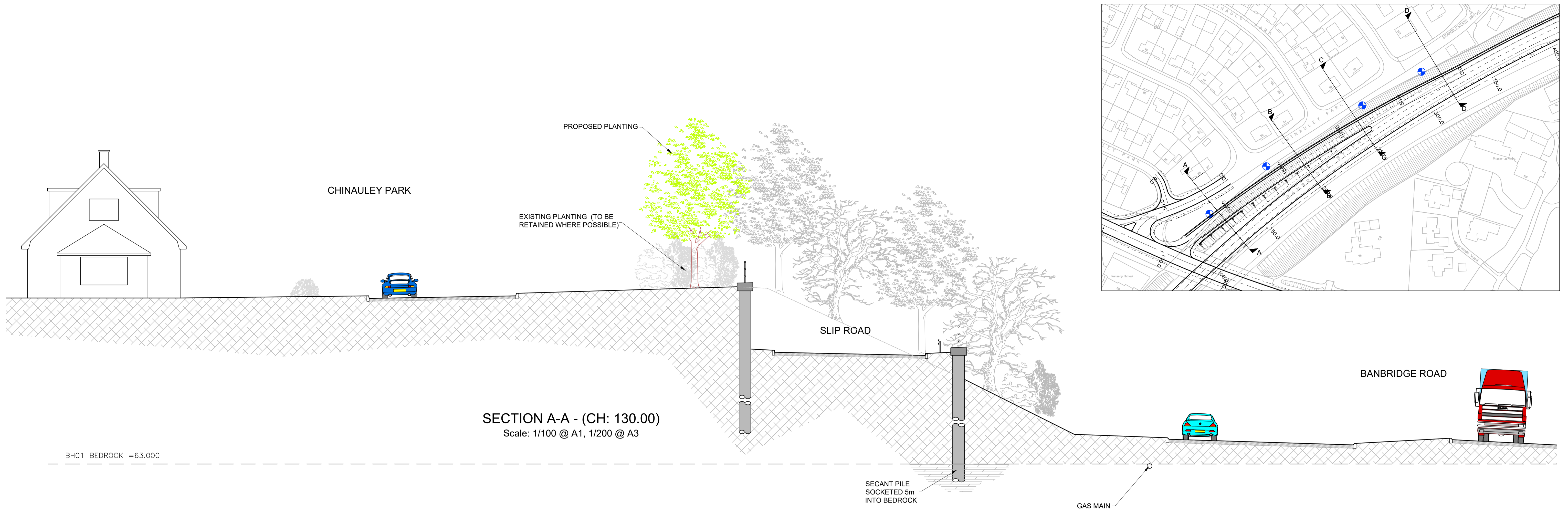
Consultant

Einwood House
74 Boucher Road
Belfast
BT12 6RZ

T +44 (0) 28 90 667914
F +44 (0) 28 90 668286
W www.rpsgroup.com/ireland
E ireland@rpsgroup.com

This drawing may only be used for the purpose intended and only written dimensions should be used.

D1	ISSUE FOR REVIEW	PH	250718
----	------------------	----	--------



Drawing Title		CASTLEWELLAN ROAD - J6 SECANT PILED WALL Sheet 1 of 3	
Drawing Number	Rev	P1.0	
TNI Ref Originator Volume Location Type Discipline Classification Number			
168014-RPSD-SBR-J6-DR-S-1700-00009			

Drawing Status		Suitability		Project Ref No.	
S2		ISSUE FOR INFORMATION		IBH0488	
Scale	Designed	Drawn By	Checked	Authorised	
1:1250 UOS	MN	JO'G	DK	MC	
Original Size	Date	Date	Date	Date	
A1	14.12.18	14.12.18	14.12.18	19.02.19	

Client

www.infrastructure-ni.gov.uk

Project

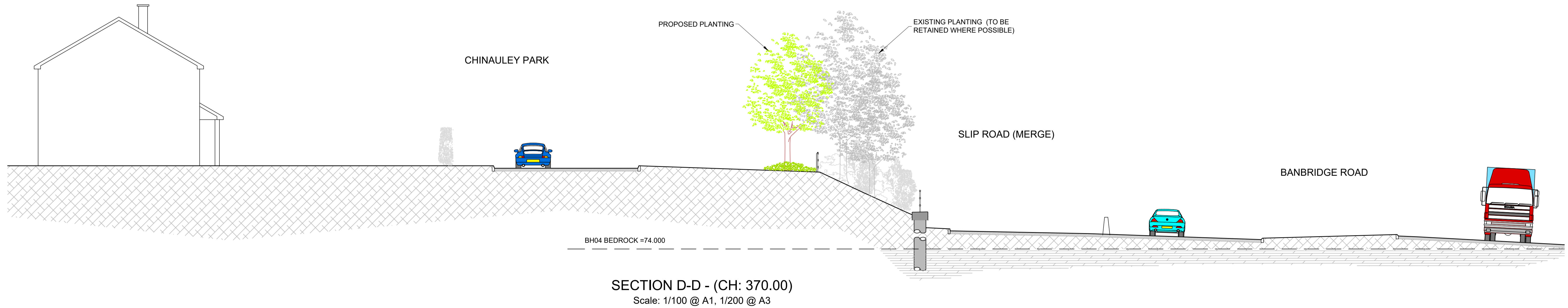
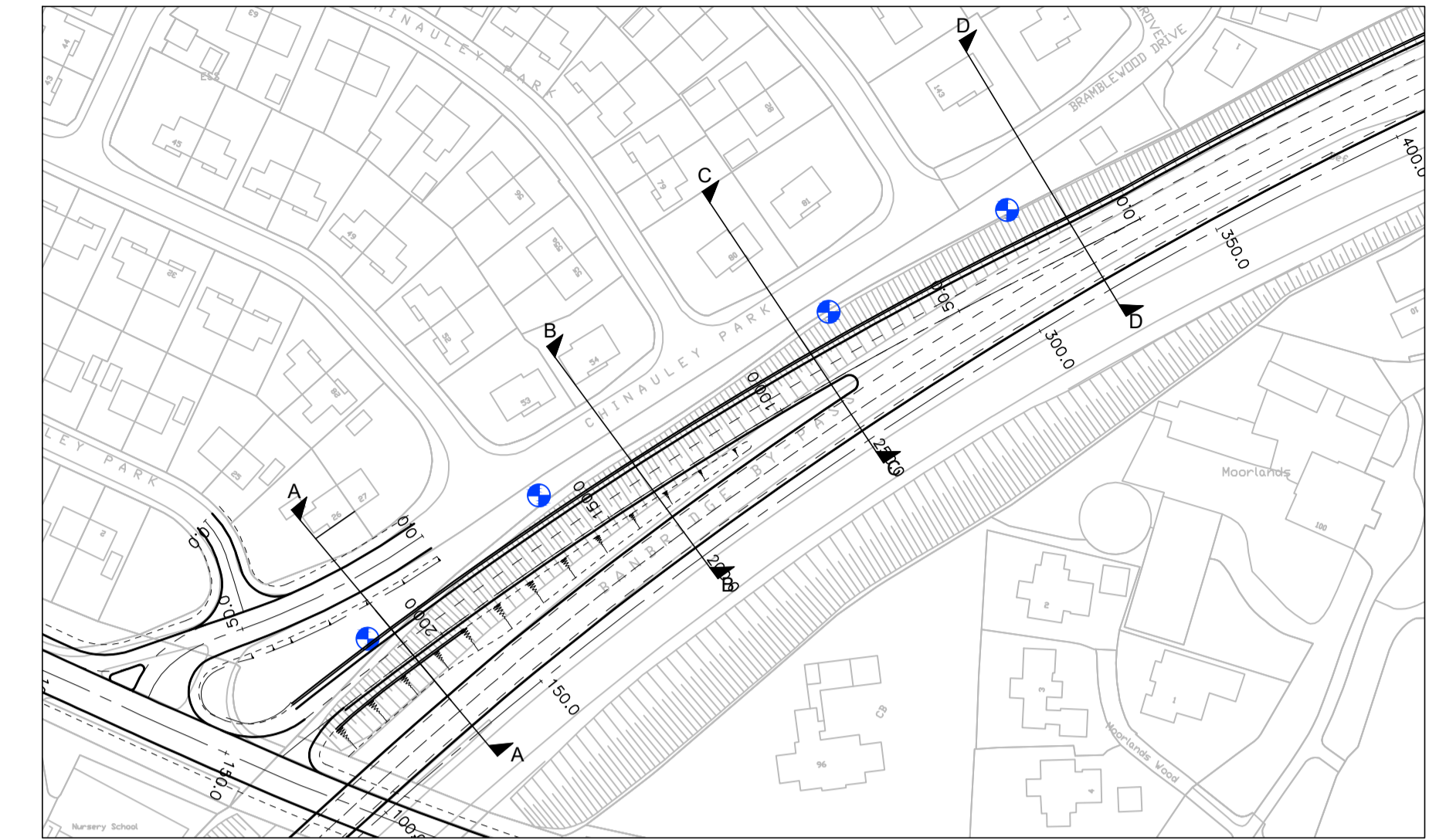
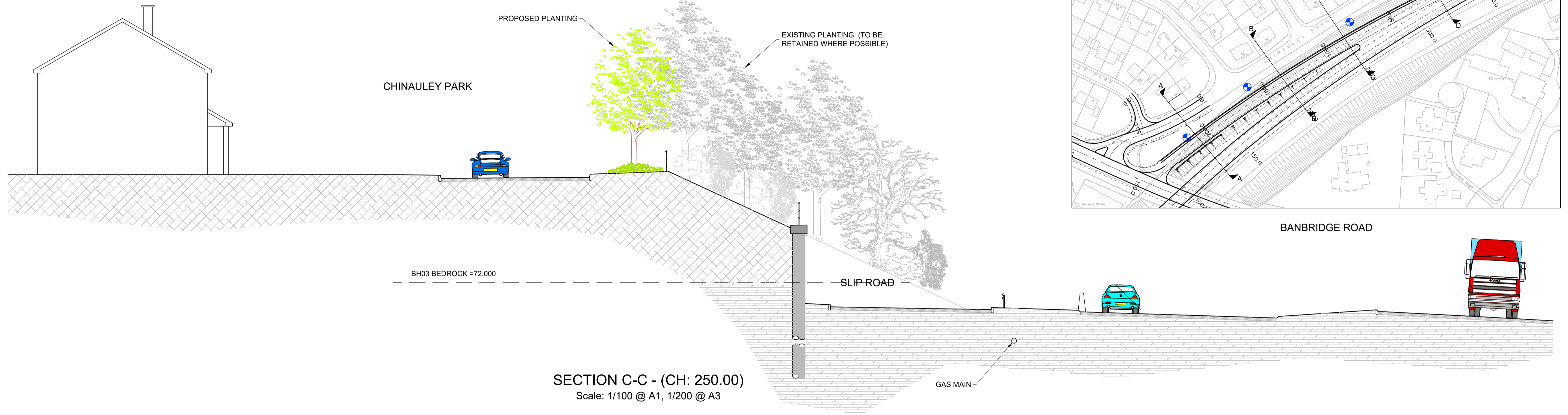
Consultant

Einwood House
74 Boucher Road
Belfast
BT12 6RZ

T +44 (0) 28 90 667914
F +44 (0) 28 90 665286
W www.rpsgroup.com/ireland
E ireland@rpsgroup.com

This drawing may only be used for the purpose intended and only written dimensions should be used.

D3	DRAFT	DK	25/07/18
D2	DRAFT	J.O'G	08/01/18
D1	DRAFT	J.O'G	29/11/17



Drawing Title
**CASTLEWELLAN ROAD - J6
SECANT PILED WALL**
Sheet 2 of 3

Drawing Number
TNI Ref | Originator | Volume | Location | Type | Discipline | Classification | Number | Rev
168014-RPSD-SBR-J6-DR-S-1700-00010 | P1.0

Drawing Status S2		Suitability ISSUE FOR INFORMATION		Project Ref No. IBH0488	
Scale 1:100	Designed MN	Drawn By JO'G	Checked DK	Authorised MC	
Original Size A1	Date 14.12.18	Date 14.12.18	Date 14.12.18	Date 19.02.19	

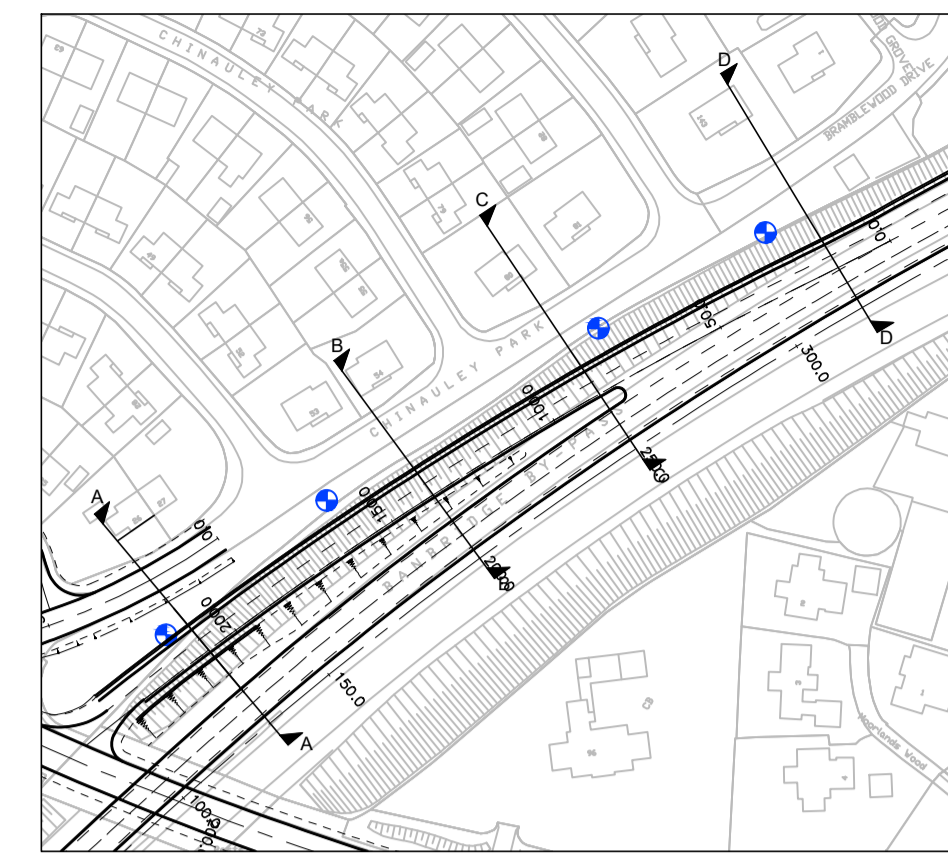
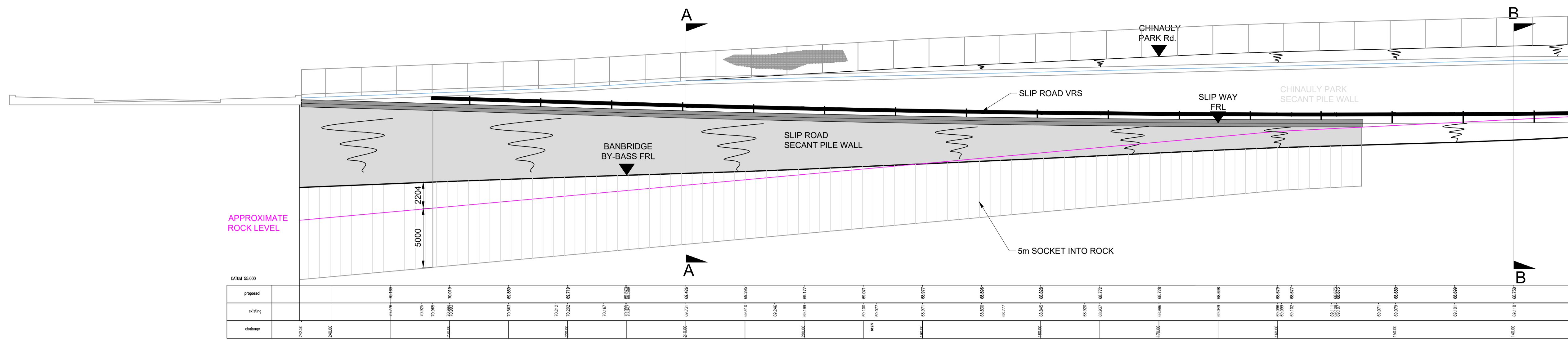


Einwood House
74 Boucher Road
Belfast
BT12 6RZ

T +44 (0) 28 90 667914
F +44 (0) 28 90 665286
W www.rpsgroup.com/ireland
E ireland@rpsgroup.com

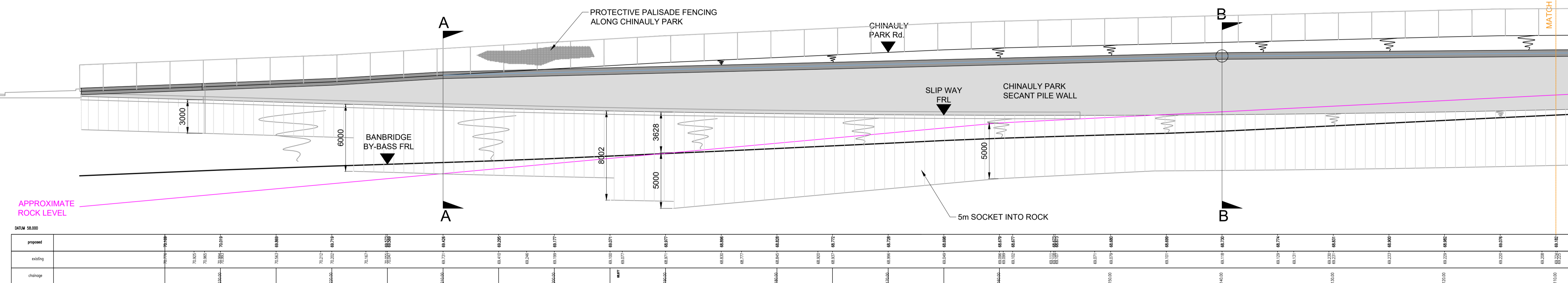
This drawing may only be used for the purpose intended and only written dimensions should be used.

D3	DRAFT	DK	25/07/18
D2	DRAFT	J.O'G	08/01/18
D1	DRAFT	J.O'G	29/11/17

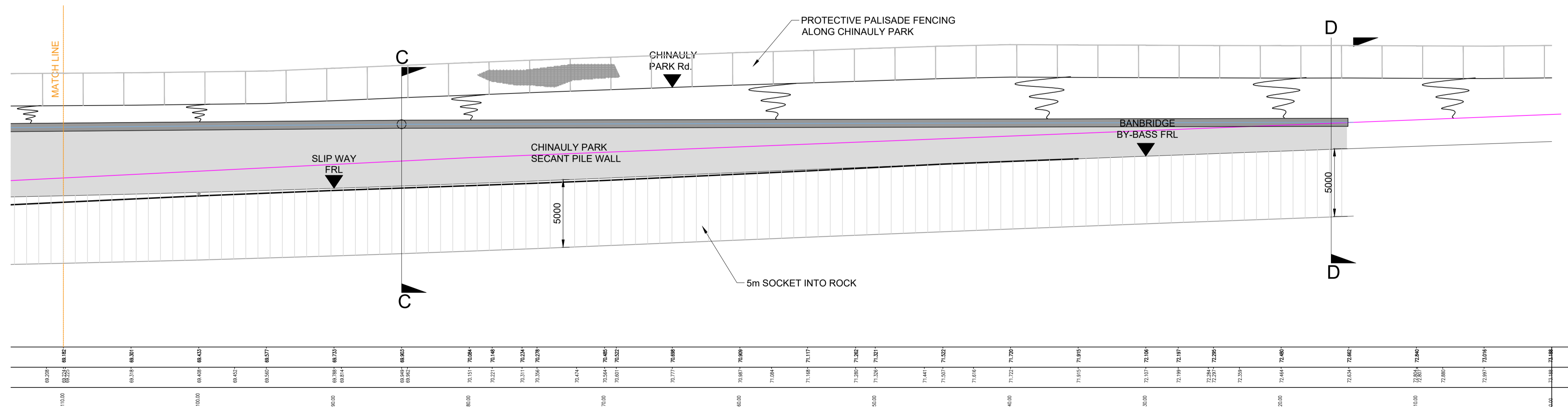


KEY PLAN
SCALE 1:2000 @ A1, 1:4000 @ A4

SLIP ROAD SECANT PILE WALL
(LOWER WALL)
SCALE 1:200 @ A1, 1:400 @ A4



CHINNAULY PARK SECANT PILE WALL
(UPPER WALL)
SCALE 1:200 @ A1, 1:400 @ A4



CHINNAULY PARK SECANT PILE WALL
(UPPER WALL)
SCALE 1:200 @ A1, 1:400 @ A4

NOTE:
5m SOCKET INTO
COMPETENT ROCK
UNLESS NOTED
OTHERWISE

Drawing Title CASTLEWELLAN ROAD - J6 SECANT PILED WALL Sheet 3 of 3	
Drawing Number TNI Ref Originator Volume Location Type Discipline Classification Number 168014-RPSD-SBR-J6-DR-S-1700-00011	Rev P1.0

Drawing Status S2	Suitability ISSUE FOR INFORMATION	Project Ref No. IBH0488
Scale 1:100	Designed MN	Drawn By JO'G
Original Size A1	Date 14.12.18	Date 14.12.18
	Checked DK	Authorised MC
	Date 14.12.18	Date 19.02.19



Einwood House 74 Boucher Road Belfast BT12 6RZ	T +44 (0) 28 90 667914 F +44 (0) 28 90 666286 W www.rpsgroup.com/ireland E ireland@rpsgroup.com
This drawing may only be used for the purpose intended and only written dimensions should be used.	

D1	DRAFT	DK	25/07/18
----	-------	----	----------