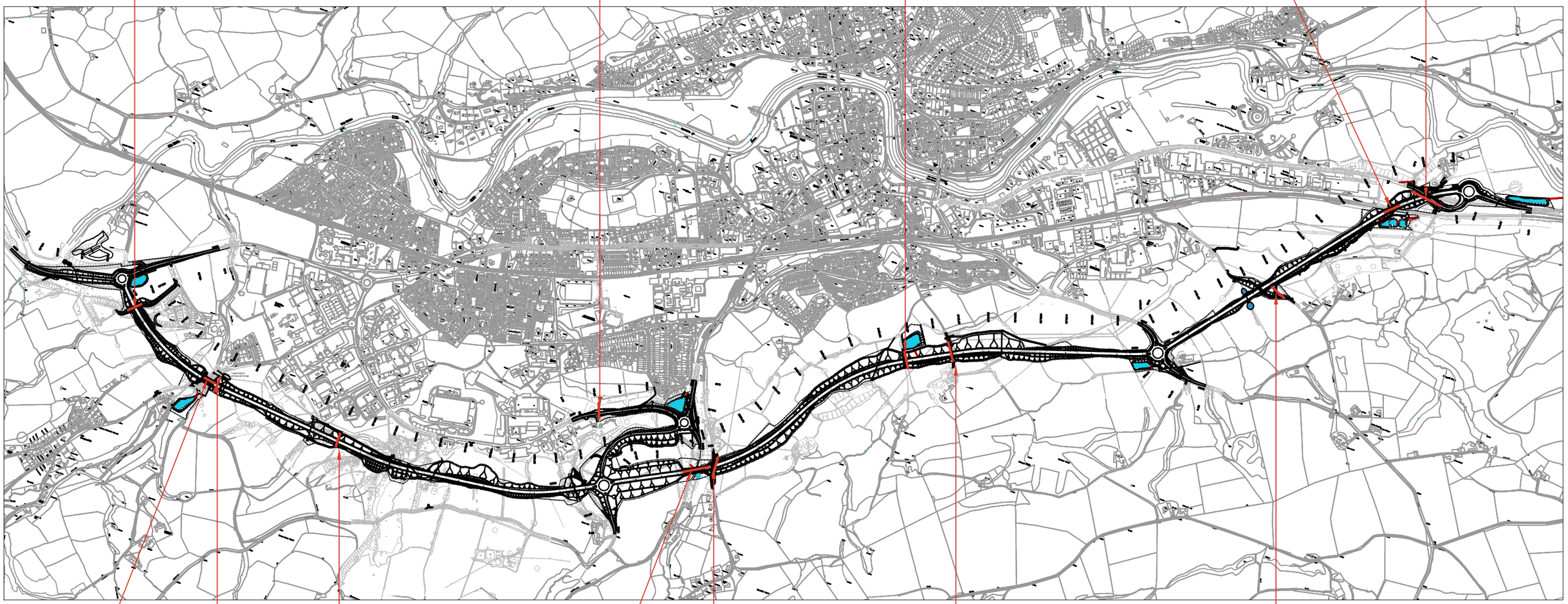
S1
Glandulas
Overbridge
Structure Type 1

S4
Culvert

S7
Brimmon Farm
Underpass
Structure Type 3

S10
Railway Bridge
Structure Type 5

S11
Pool Road
Underbridge
Structure Type 6



S2
Mochdre Bridge
Structure Type 2

S2A
Coleg Powys
Underpass
Structure Type 3

S3
Bridleway
Underpass
Structure Type 3

S5
Dolfor
Underbridge
Structure Type 4

S6
Upper Dolfor
Overbridge
Structure Type 1

S8
Brimmon Lane
Underpass
Structure Type 3

S9
Wern - ddu
Overbridge
Structure Type 1

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ATKINS
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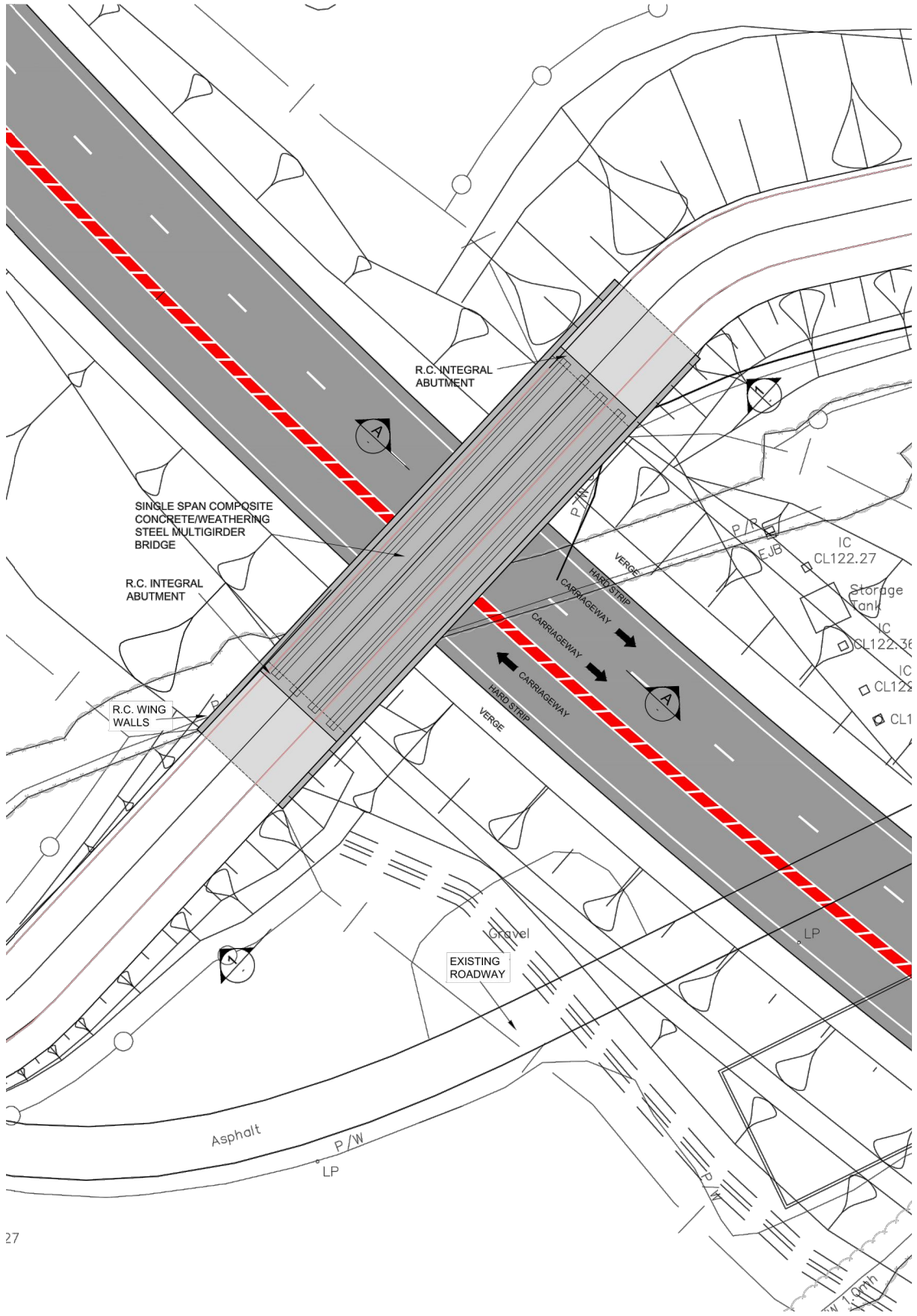
Job Title

A483/A489
Newtown Bypass

Drawing Title

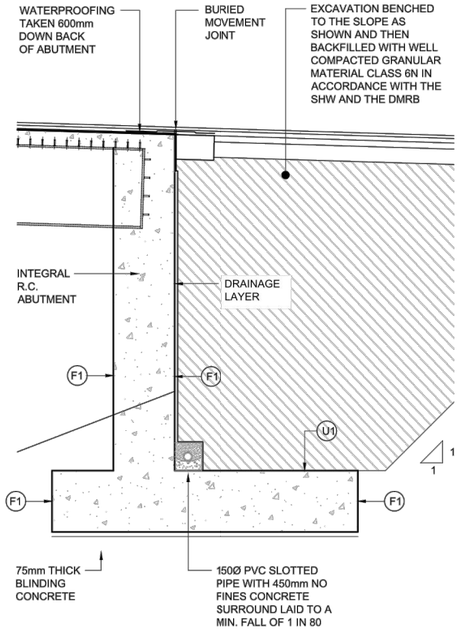
Environmental Statement
The Project - Structures
Structures - Key Plan
Sheet 1 of 7

Date OCT 2014		Drawn by DAS	
Scale at A3 Not to Scale		Checked AT	
Drawing Status **FINAL**		Approved JW	
Job No 60597	Figure No 2.5a	Issue -	



PLAN - GLANDULAS BRIDGE

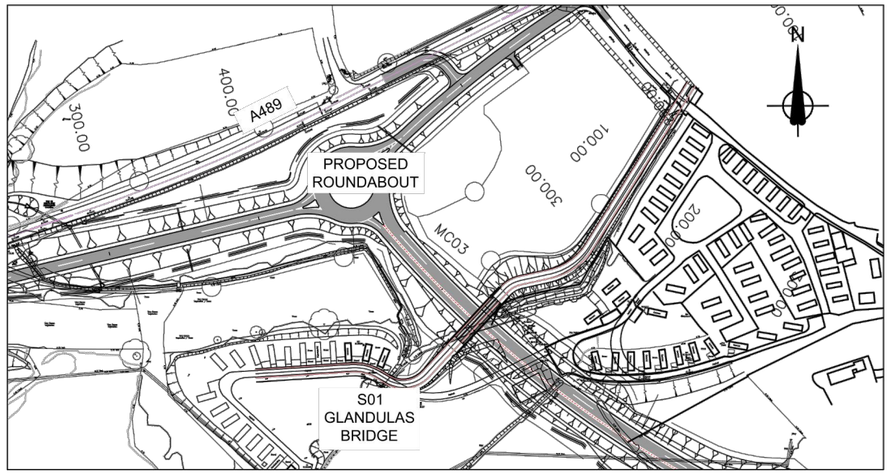
SCALE 1:250



TYPICAL SECTION THROUGH ABUTMENT

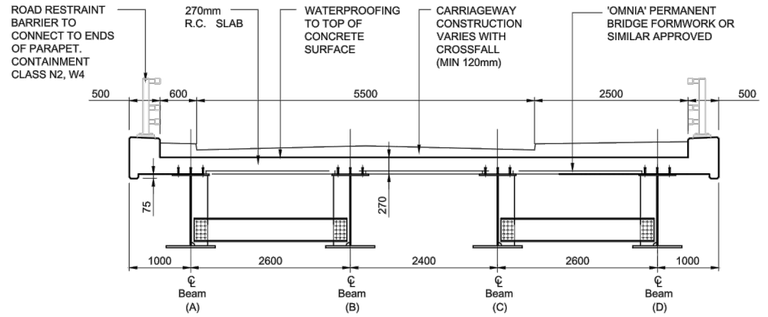
SCALE 1:50

NOTE FOR FOUNDATION DESIGN THICKNESS AND NATURE OF THE FAN DEPOSITS AT THE EASTERN ABUTMENT LOCATION WILL NEED TO BE CONFIRMED PRIOR TO SELECTION OF THE FOUNDATION TYPE AND DETAILED DESIGN



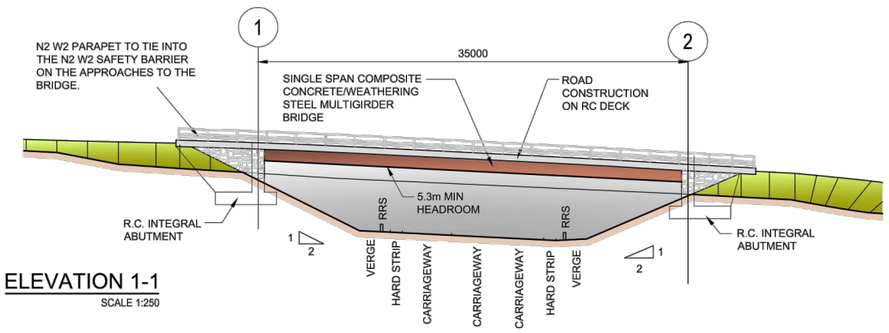
LOCATION PLAN

SCALE 1:2000



SECTION A-A

SCALE 1:50



ELEVATION 1-1

SCALE 1:250

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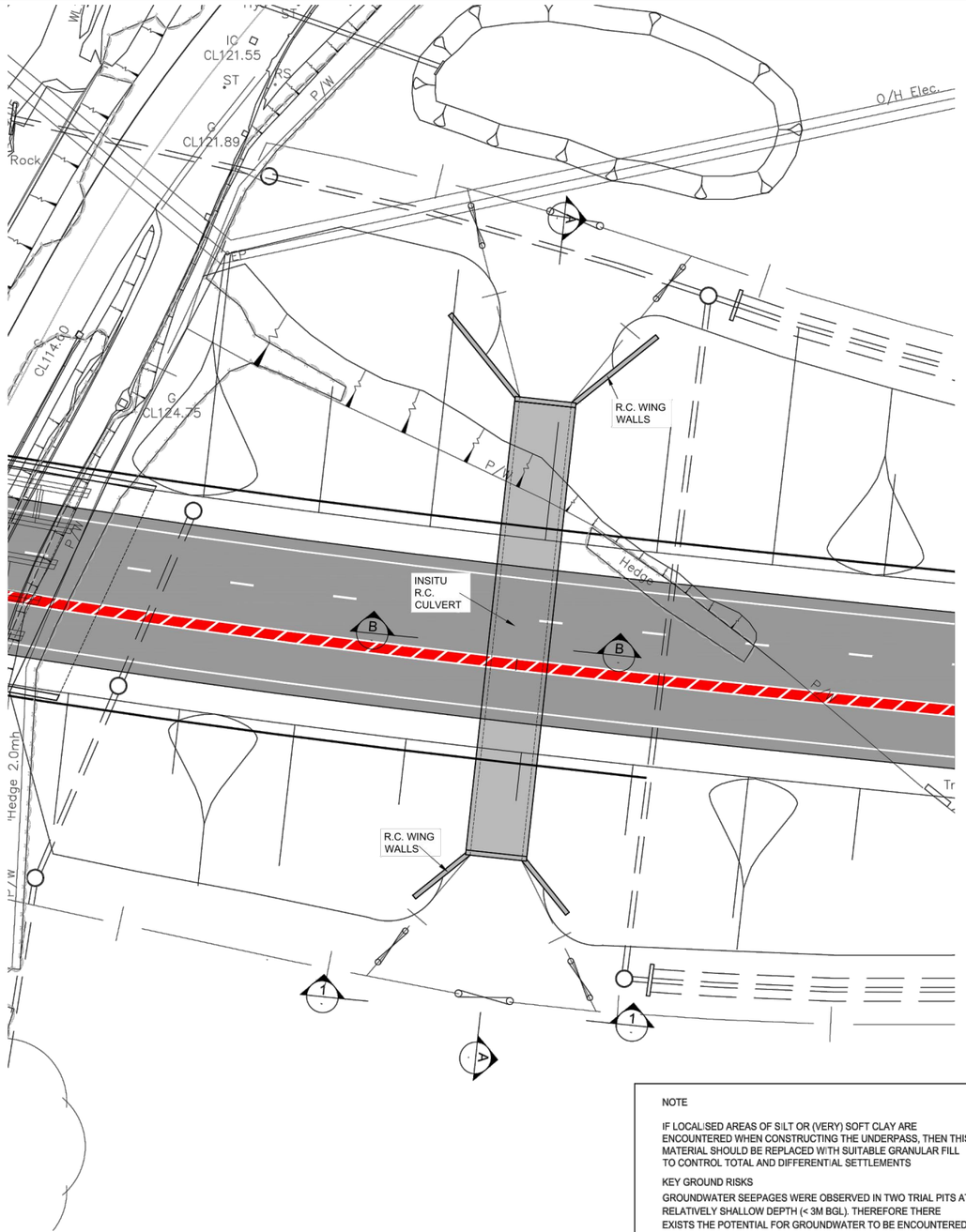
Newtown Bypass

Drawing Title

Environmental Statement
The Project - Structures
S01 - Preliminary Bridge Option - Type 1
Sheet 2 of 7

Date OCT 2014		Drawn by	DAS
Scale at A3 Not to Scale		Checked	AT
Drawing Status **FINAL**		Approved	JW
Job No 60597	Figure No 2.5b	Issue	-



PLAN - COLEG POWYS UNDERPASS

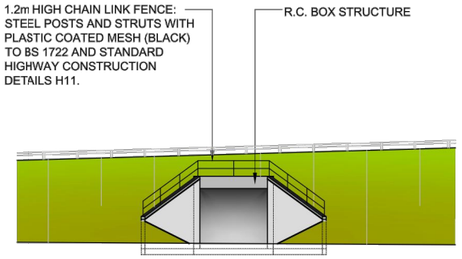
SCALE 1:250

NOTE

IF LOCALISED AREAS OF SILT OR (VERY) SOFT CLAY ARE ENCOUNTERED WHEN CONSTRUCTING THE UNDERPASS, THEN THIS MATERIAL SHOULD BE REPLACED WITH SUITABLE GRANULAR FILL TO CONTROL TOTAL AND DIFFERENTIAL SETTLEMENTS

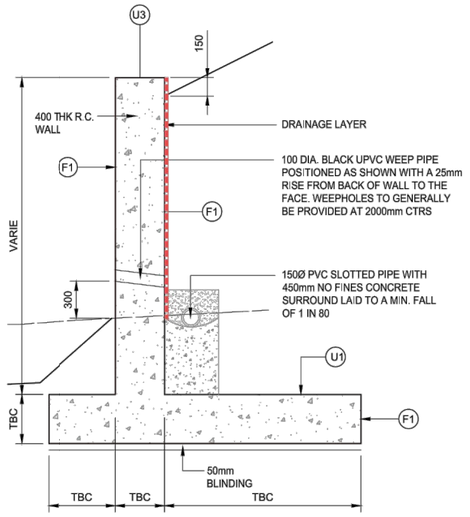
KEY GROUND RISKS

GROUNDWATER SEEPAGES WERE OBSERVED IN TWO TRIAL PITS AT RELATIVELY SHALLOW DEPTH (< 3M BGL). THEREFORE THERE EXISTS THE POTENTIAL FOR GROUNDWATER TO BE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION OF THE BOX STRUCTURE AND THE WINGWALLS. THIS MAY LEAD TO INSTABILITY OF THE SIDES OF TEMPORARY EXCAVATIONS WHICH SHOULD BE DESIGNED ACCORDINGLY.



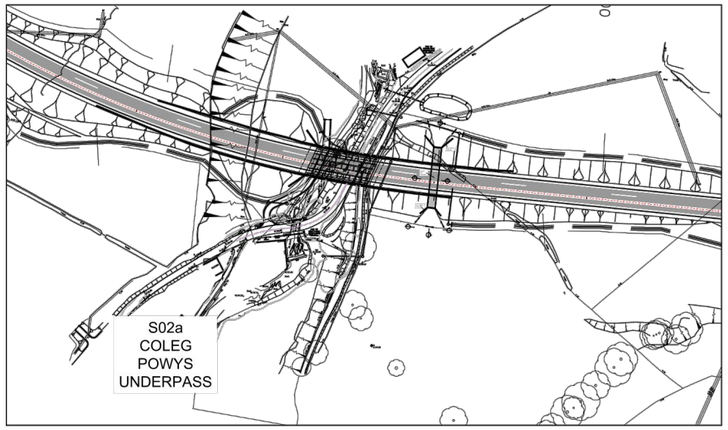
SECTION 1-1

SCALE 1:250



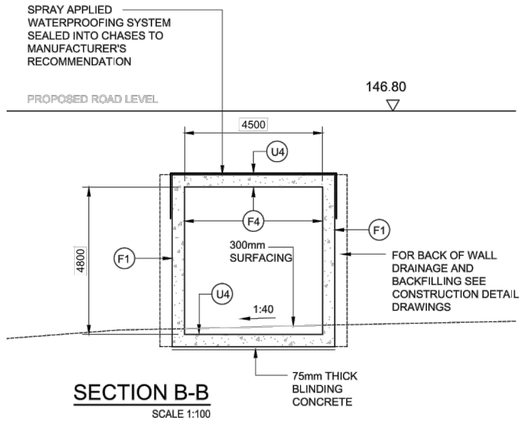
TYPICAL WING WALL CROSS SECTION

SCALE 1:25



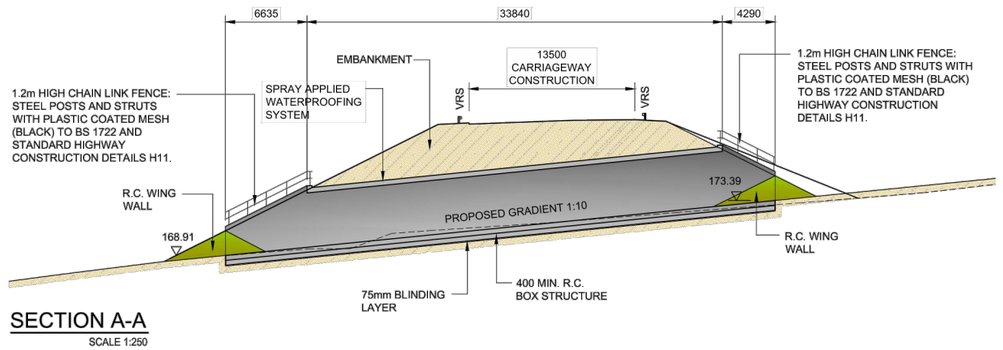
LOCATION PLAN

SCALE 1:2000



SECTION B-B

SCALE 1:100



SECTION A-A

SCALE 1:250

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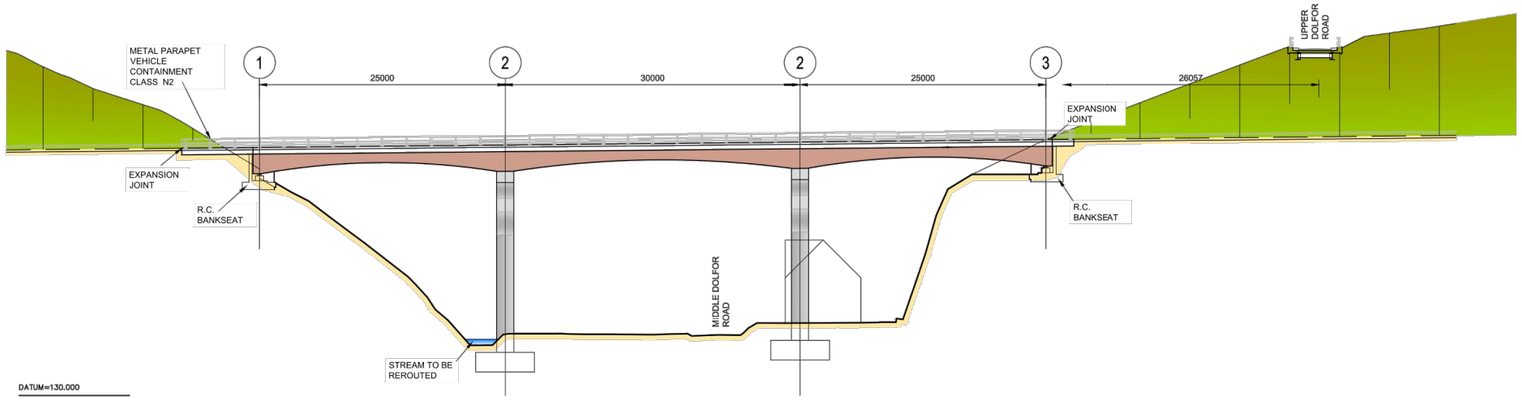
Environmental Statement
The Project - Structures
S02A - Preliminary Bridge Option - Type 3
Sheet 3 of 7

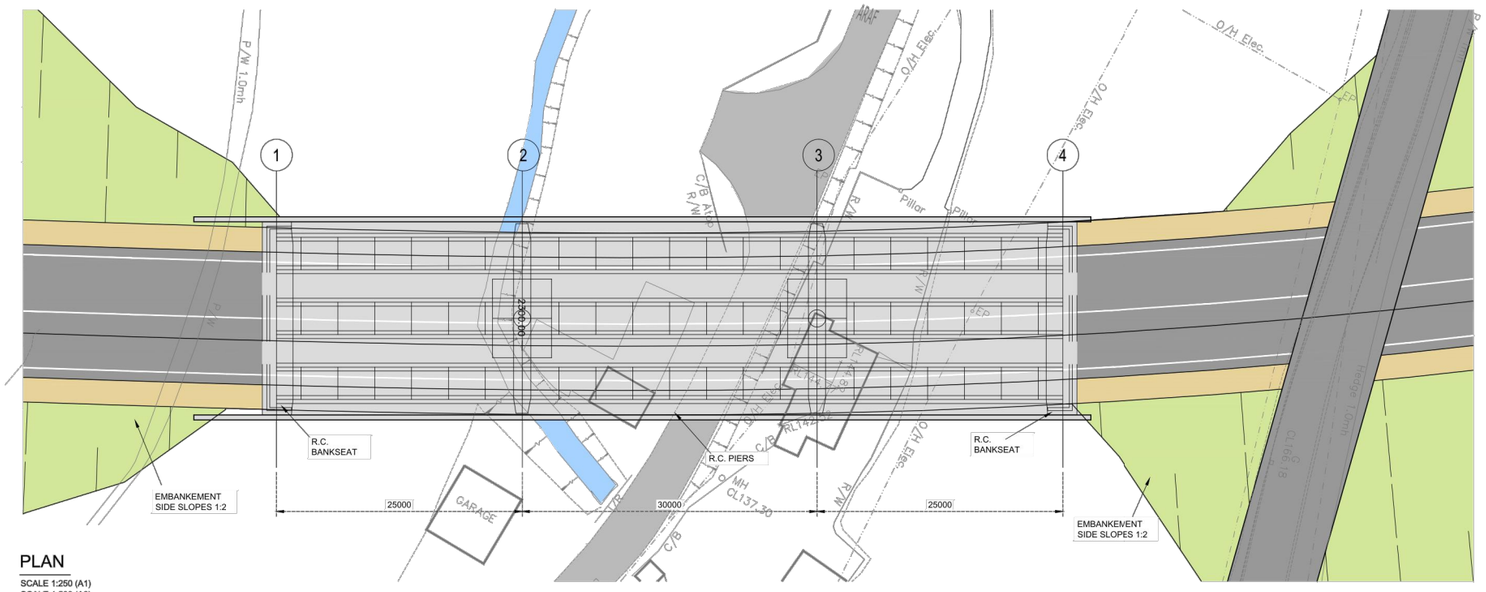
Date: OCT 2014		Drawn by: DAS	
Scale at A3: Not to Scale		Checked: AT	
Drawing Status: FINAL		Approved: JW	
Job No: 60597	Figure No: 2.5c		Issue: -

DO NOT SCALE



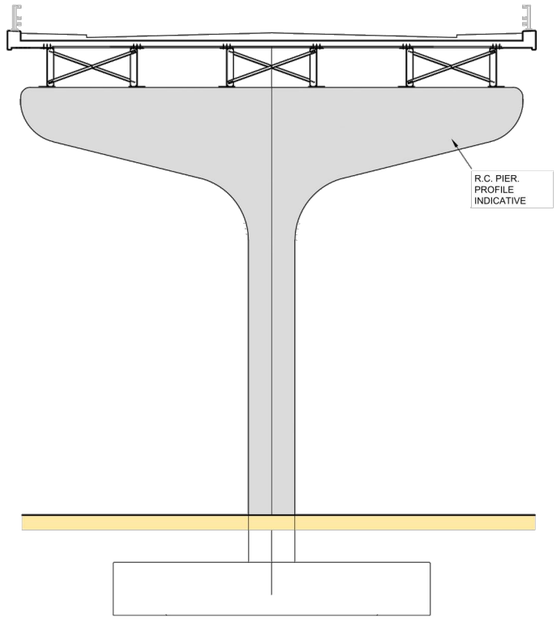
PROPOSED ELEVATION

SCALE 1:250 (A1)
SCALE 1:500 (A3)



PLAN

SCALE 1:250 (A1)
SCALE 1:500 (A3)



TYPICAL CROSS SECTION

SCALE 1:50 (A1)
SCALE 1:100 (A3)

PLAN - DOLFOR UNDERBRIDGE

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Environmental Statement
The Project - Structures
S05 - Preliminary Bridge Option - Type 4
Sheet 4 of 7

Date: OCT 2014		Drawn by: DAS	
Scale at A3: Not to Scale		Checked: AT	
Drawing Status: FINAL		Approved: JW	
Job No: 60597	Figure No: 2.5d		Issue: -

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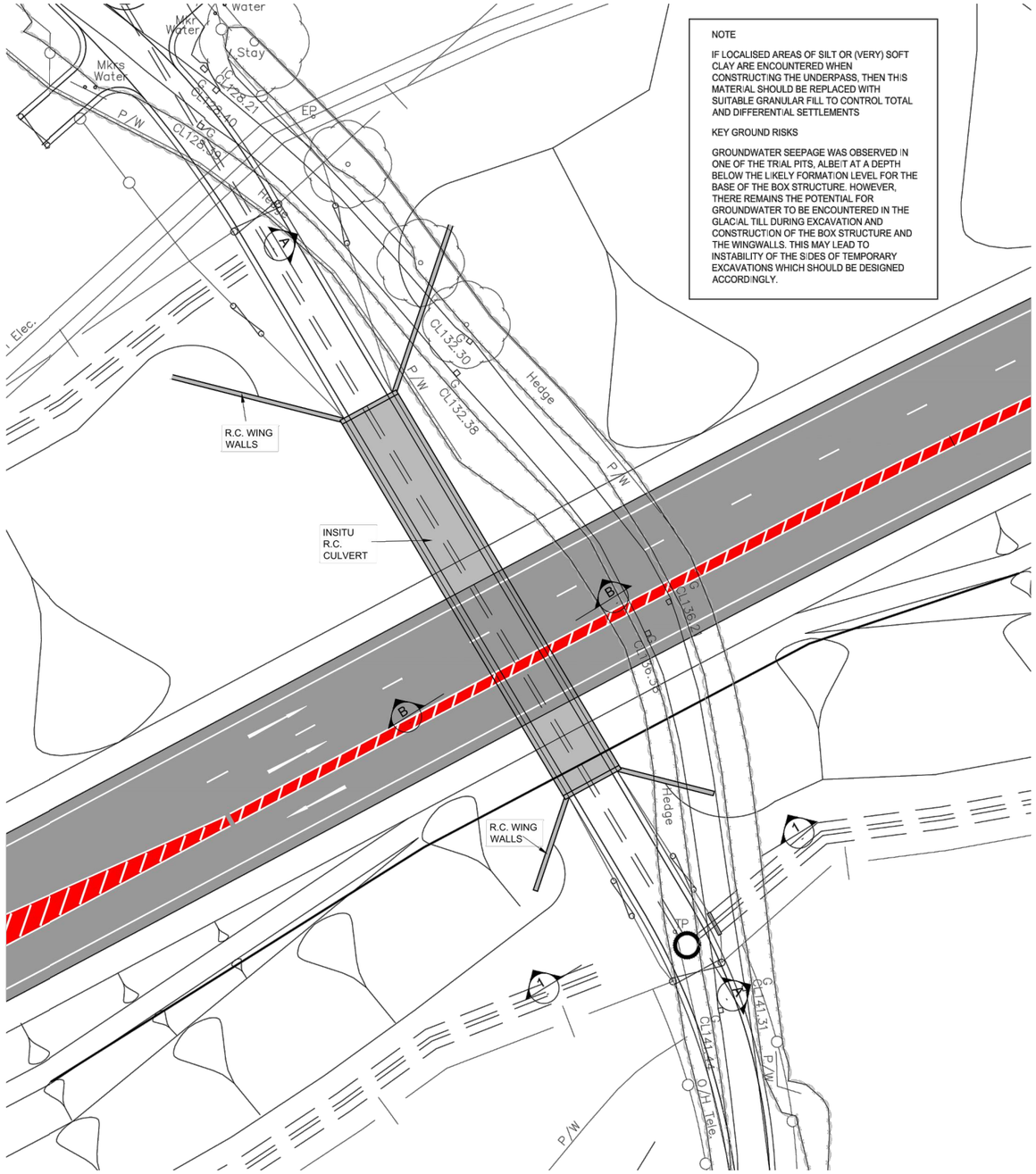
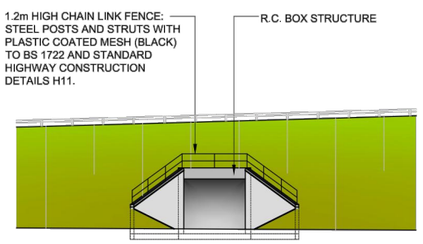


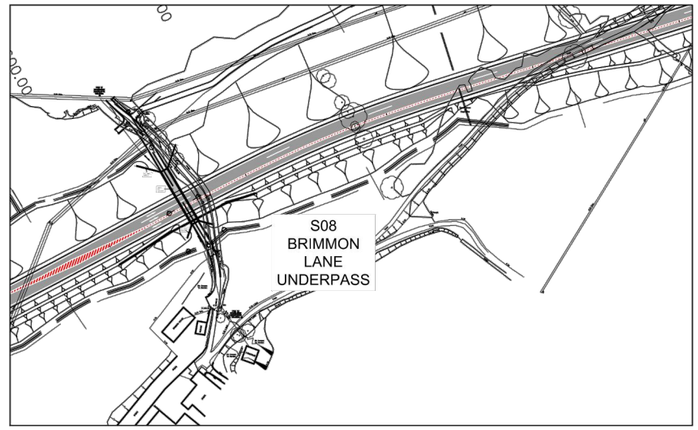
PLAN - BRIMMON LANE UNDERPASS

SCALE 1:250



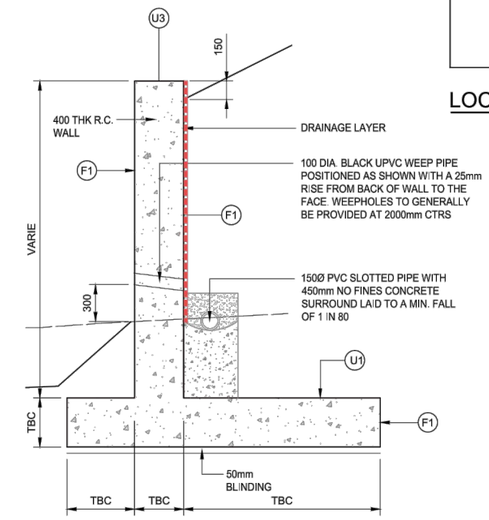
SECTION 1-1

SCALE 1:250



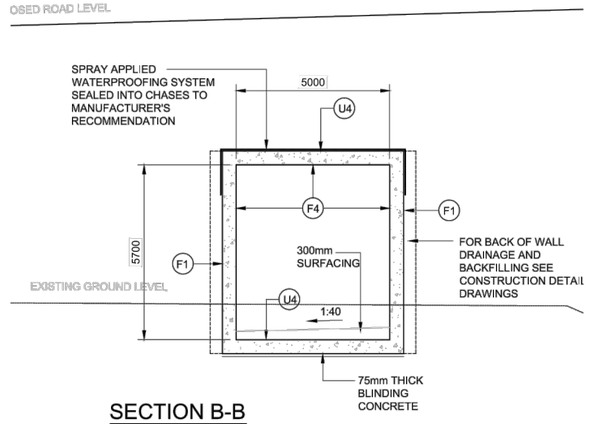
LOCATION PLAN

SCALE 1:2000



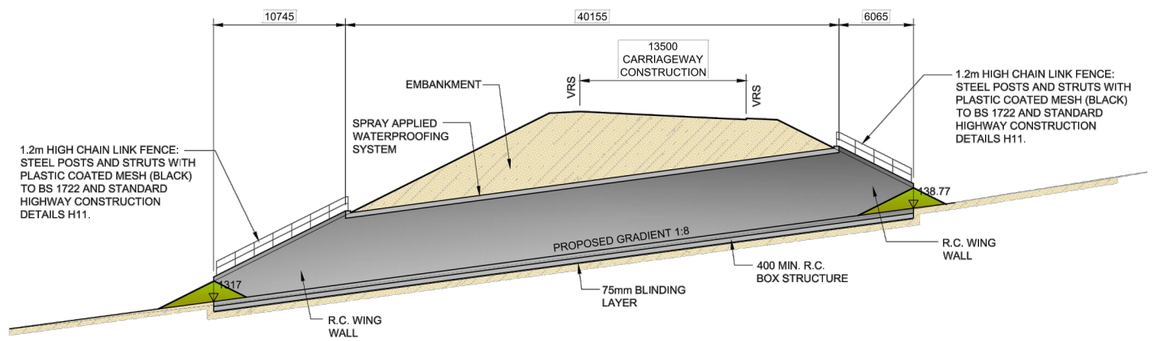
TYPICAL WING WALL CROSS SECTION

SCALE 1:25



SECTION B-B

SCALE 1:100



SECTION A-A

SCALE 1:250

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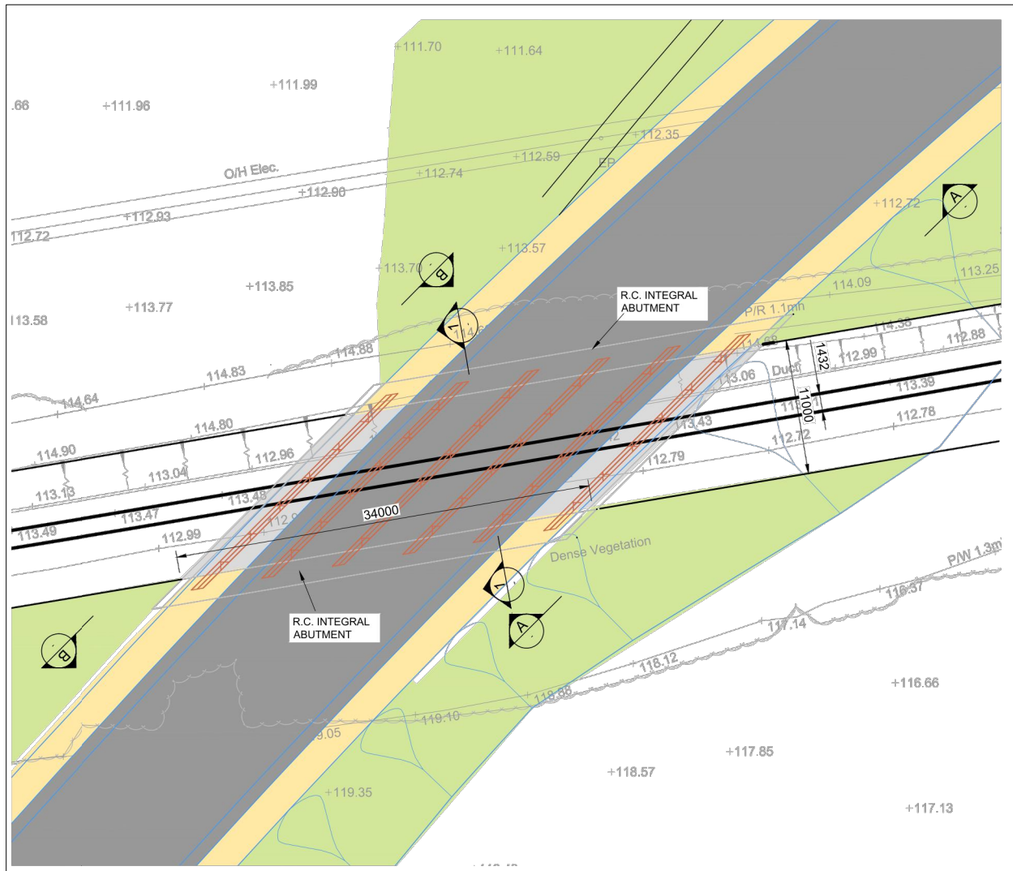
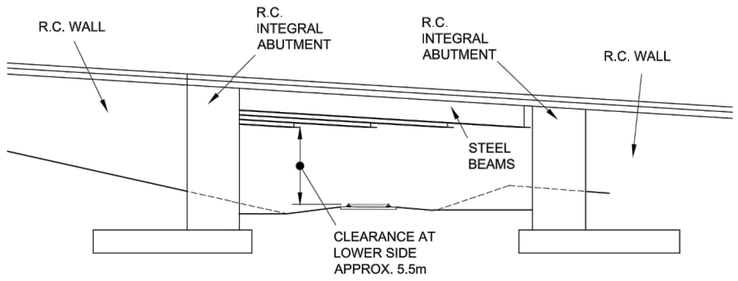
Environmental Statement
The Project - Structures
S08 - Preliminary Bridge Option - Type 3
Sheet 5 of 7

Date OCT 2014		Drawn by DAS	
Scale at A3 Not to Scale		Checked AT	
Drawing Status FINAL		Approved JW	
Job No 60597	Figure No 2.5e	Issue -	

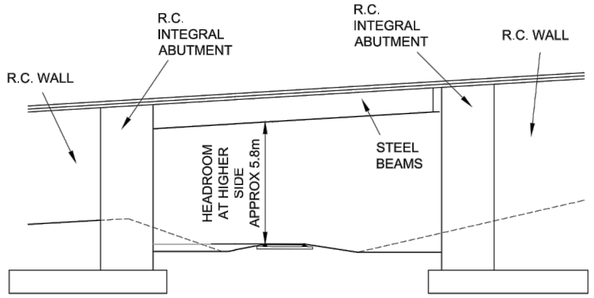
DO NOT SCALE



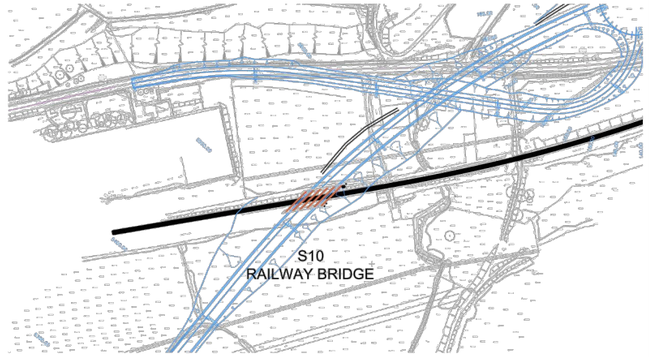
PLAN
SCALE 1:250



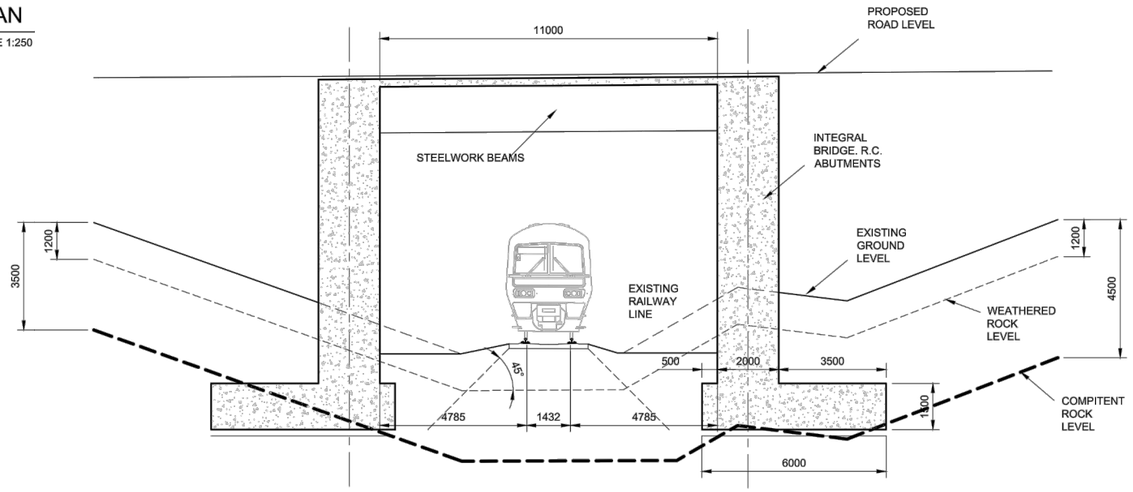
ELEVATION A-A
SCALE 1:200



ELEVATION B-B
SCALE 1:200

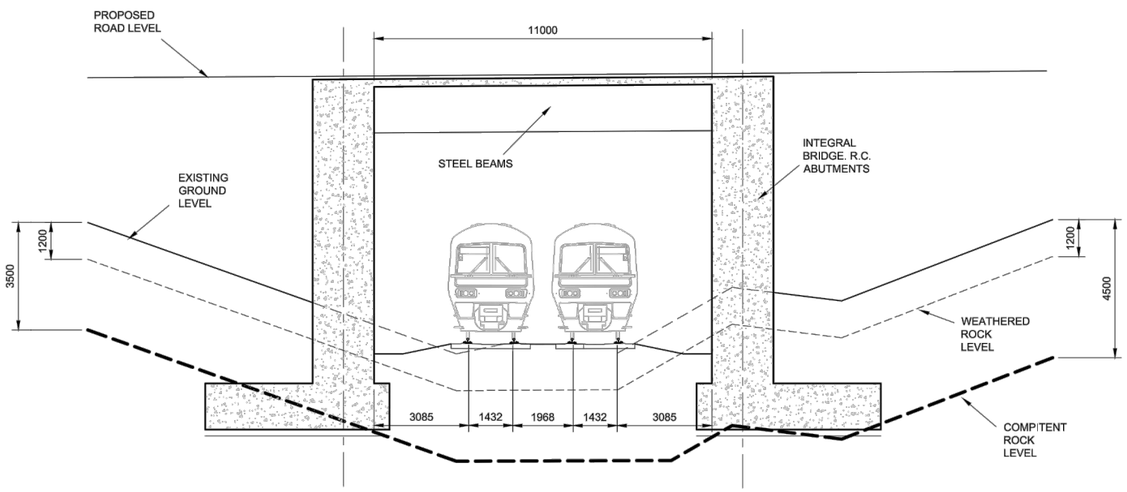


LOCATION PLAN
SCALE 1:2500



RAILWAY BRIDGE

SECTION 1-1 (SINGLE TRACK)
SCALE 1:100



SECTION 1-1 (DOUBLE TRACK)
SCALE 1:100

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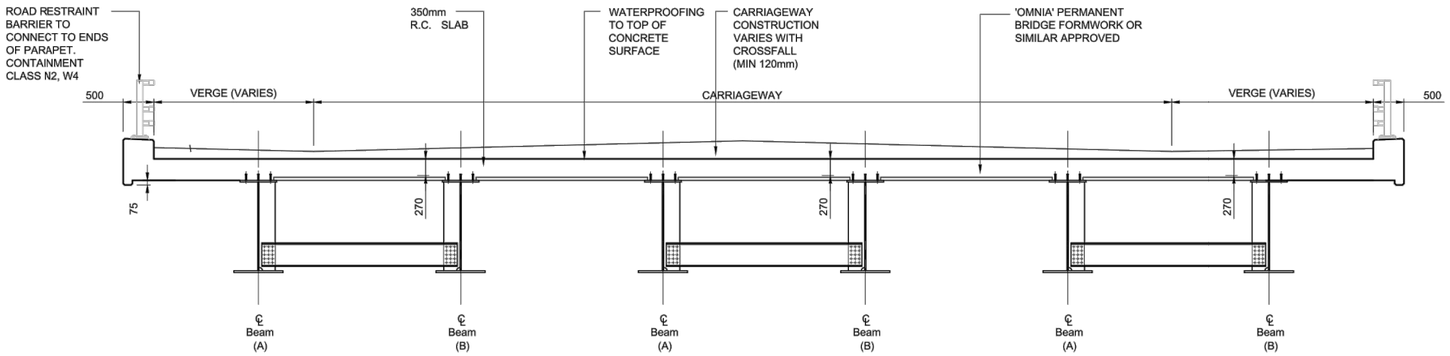
Drawing Title
Environmental Statement
The Project - Structures
S10 - Railway Bridge Option - Type 5
Sheet 6 of 7

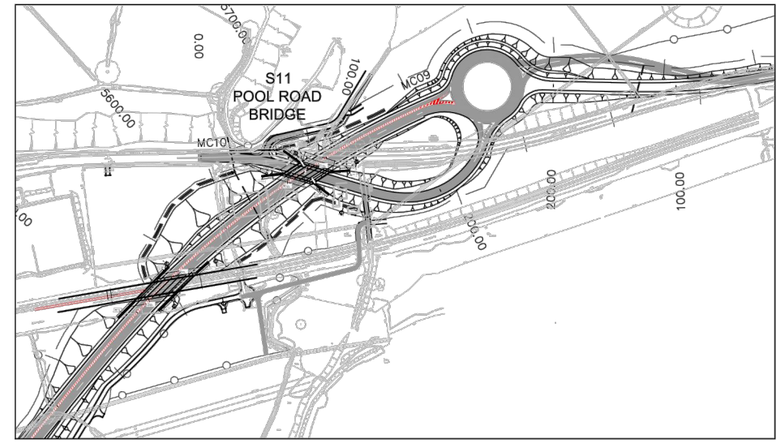
Date: OCT 2014		Drawn by: DAS	
Scale at A3: Not to Scale		Checked: AT	
Drawing Status: **FINAL**		Approved: JW	
Job No: 60597	Figure No: 2.5f	Issue: -	

DO NOT SCALE



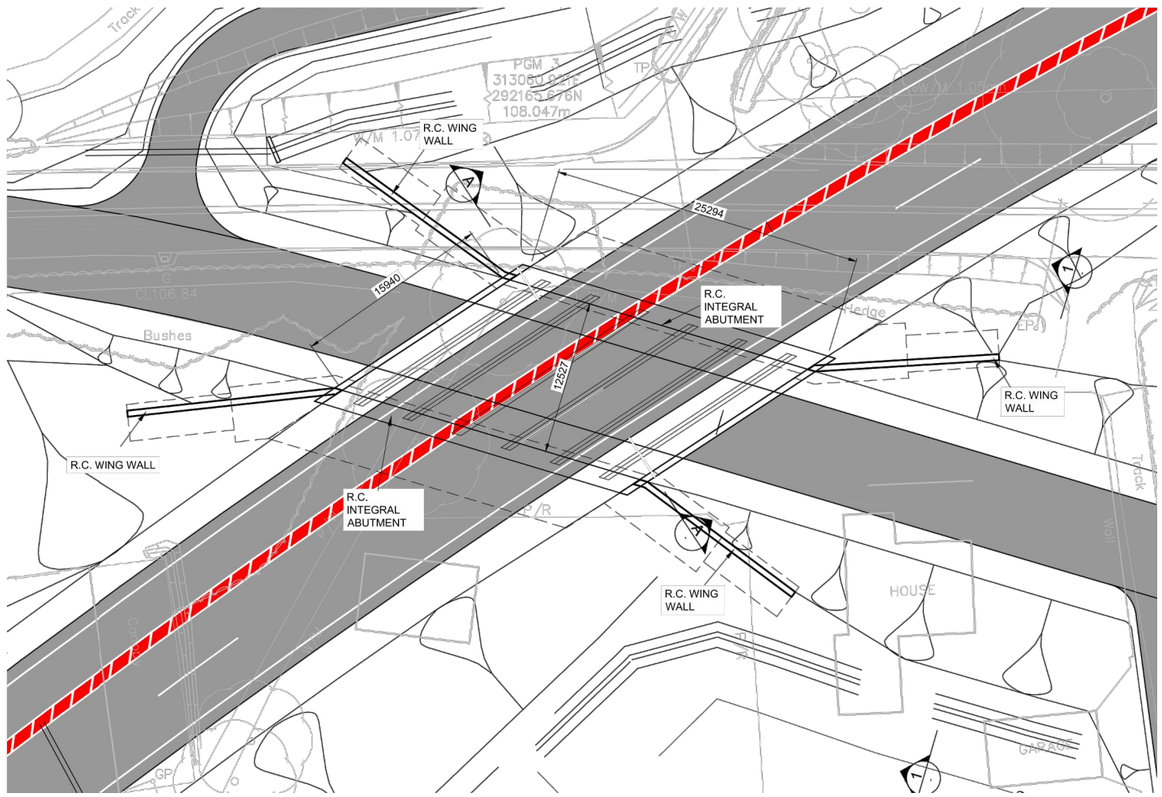
ELEVATION 1-1

SCALE 1:250



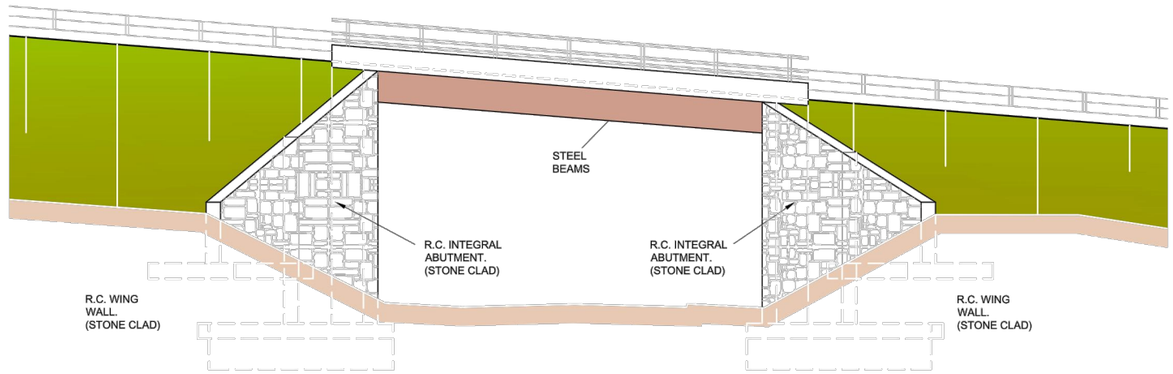
LOCATION PLAN

SCALE 1:2500



PLAN POOL ROAD UNDERBRIDGE

SCALE 1:250



SECTION A-A

SCALE 1:100

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Environmental Statement
The Project - Structures
S11 - Preliminary Bridge Option - Type 6
Sheet 7 of 7

Date: OCT 2014		Drawn by: DAS	
Scale at A3: Not to Scale		Checked: AT	
Drawing Status: **FINAL**		Approved: JW	
Job No: 60597	Figure No: 2.5g		Issue: -