

# Bridge Inspection Pro Forma

Based on Volume 2 Addendum: August 2004

Name: **ARTHUR'S BRIDGE**

Ref No: **B9103/20**

<b>General Inspection CSS</b>		Inspector:	<b>Form 1 of 3 for this structure</b>	
Bridge Name: ARTHUR'S BRIDGE			Date: 21/06/2023	
Bridge Ref/No: B9103/20		Span Width: 8.20 m		Map Ref: 325332,867212
BCI Span Number: 1	BCI Span Total	Length of Span: 7.62 m		Primary Deck Form: 04 Beam / Girder - At Or Below Deck Surface
Span description:				Primary Deck Material: A Reinforced Concrete
All above ground elements inspected:			Photographs:	Secondary Deck Form: 24 Slab - No Transverse Beams
Number of construction forms in Bridge/Span: 1				Secondary Deck Material: B Plain / Mass Concrete

Condition Indicator and Scores									
Average Score for structure					Span Score				
BCI av	76.38	BCS av	2.11	BCI av	80.52	BCS av	2.02		
BCI crit	9.72	BCS crit		BCI crit	9.72	BCS crit	4.70		

Set	No	Element Description	S	Ex	Def	W	P	Cost	M	Comments
Deck Elements	1	Primary Deck Element (Table 2)	4	C	2.1	RM	H	99		No obvious deterioration from last inspection.
	2	Secondary Deck Element/S - Transverse Beams								
	3	Secondary Deck Element/S - Element From Table 3	6	F	0.0	?	?	0		
	4	Half Joints	4	E	2.1	RM	H	99		No obvious deterioration since the last inspection.
	5	Tie Beam/Rods								
	6	Parapet Beam Or Cantilever	1	A	2.2	?	?	0		
	7	Deck Bracing								

Load Bearing Sub Structure	8	Foundations	1	A	6.1	?	?	0		
	9	Abutments (Incl. Arch Springing)	2	B	2.4	RM	L	99		Small rust patches just bellow the bearing plinth.
	10	Spandrel Wall/Head Wall								
	11	Pier/Column	1	A	2.1	?	?	0		
	12	Cross-head/Capping Beam								
	13	Bearings	1	A	12.4	N	?	0		
	14	Bearing Plinth/Shelf	1	A	2.1	?	?	0		

Durability Elements	15	Superstructure Drainage								
	16	Substructure Drainage	3	D	8.1	DB	M	99		Stains and efflorescence present .
	17	Waterproofing	1	A	14.1	?	?	0		
	18	Movement/Expansion Joints								
	19	Painting: Deck Elements								
	20	Painting: Substructure Elements								
	21	Painting: Parapets/Safety Fences	5	C	4.1	4	H	99		Remove rust and treat.

Safety Elements	22	Access/Walkways/Gantries								
	23	Handrail/Parapets/Safety Fences	3	C	1.1	4	M	99		Remove rust or replace element.
	24	Carriageway Surfacing	1	A	9.1	?	?	0		
	25	Footway/Verge/Footbridge Surfacing	1	A	9.1	?	?	0		

Other Bridge Elements	26	Invert/River Bed	1	A	7.1	?	?	0		
	27	Aprons								
	28	Fenders/Cutwaters/Collision Protection								
	29	River Training Works								
	30	Revetment/Batter Paving								
	31	Wing Walls	1	A	2.1	?	?	0		
	32	Retaining Walls								
	33	Embankments	1	A	2.1	?	?	0		
	34	Machinery								

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Ancillary Elements	35	Approach Rails/Barriers/Walls	1	A	3.1	?	?	0		
	36	Signs	1	A	1.1	?	?	0		
	37	Lighting	1	A	1.1	?	?	0		
	38	Services								

Other	39	Extra Element 1								
	40	Extra Element 2								
	41	Extra Element 3								
	42	Extra Element 4								

**Multiple Defects**

No multiple defects recorded

**Inspector's Comments**

There is no obvious deterioration from the last inspection.

Name:

Signed:

Date: 21/06/2023

**Engineer's Comments**

Name:

Signed:

Date: 01/01/1970

**Work Required**

Reference No.	Suggested Remedial Work	Priority	Estimated Cost
13	N No Action Monitor Only	?	£0
1	R Repair / Maintain	High	£99
4	R Repair / Maintain	High	£99
16	REMOVE DEBRIS	Medium	£99
21	4 Remedy Corrosion	High	£99
23	4 Remedy Corrosion	Medium	£99
9	R Repair / Maintain	Low	£99

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Based on Volume 2 Addendum: August 2004

Name: **ARTHUR'S BRIDGE**

Ref No: **B9103/20**

<b>General Inspection CSS</b>		Inspector:	<b>Form 2 of 3 for this structure</b>	
Bridge Name: ARTHUR'S BRIDGE			Date: 21/06/2023	
Bridge Ref/No: B9103/20		Span Width: 8.20 m	Map Ref: 325332,867212	
BCI Span Number: 2	BCI Span Total	Length of Span: 21.34 m	Primary Deck Form: 04 Beam / Girder - At Or Below Deck Surface	
Span description:			Primary Deck Material: C Post-tensioned Concrete	
All above ground elements inspected:		Photographs:	Secondary Deck Form: 24 Slab - No Transverse Beams	
Number of construction forms in Bridge/Span: 1			Secondary Deck Material: B Plain / Mass Concrete	

Condition Indicator and Scores											
Average Score for structure					Span Score						
BCI av		76.38	BCS av		2.11	BCI av		72.59	BCS av		2.39
BCI crit		9.72	BCS crit			BCI crit		9.72	BCS crit		4.70

Set	No	Element Description	S	Ex	Def	W	P	Cost	M	Comments
Deck Elements	1	Primary Deck Element (Table 2)	4	D	2.1	RM	H	99		Repair & maintain
	2	Secondary Deck Element/S - Transverse Beams								
	3	Secondary Deck Element/S - Element From Table 3	6	F	0.0	?	?	0		
	4	Half Joints	4	E	2.1	RM	H	99		Investigate spalling.
	5	Tie Beam/Rods								
	6	Parapet Beam Or Cantilever	1	A	2.2	?	?	0		
	7	Deck Bracing								
Load Bearing Sub Structure	8	Foundations	1	A	6.1	?	?	0		
	9	Abutments (Incl. Arch Springing)	1	A	2.1	?	?	0		
	10	Spandrel Wall/Head Wall								
	11	Pier/Column								
	12	Cross-head/Capping Beam								
	13	Bearings								
	14	Bearing Plinth/Shelf								
Durability Elements	15	Superstructure Drainage								
	16	Substructure Drainage								
	17	Waterproofing	1	A	14.1	?	?	0		
	18	Movement/Expansion Joints	3	C	10.6	RM	H	99		
	19	Painting: Deck Elements								
	20	Painting: Substructure Elements								
Safety Elements	21	Painting: Parapets/Safety Fences	5	C	4.1	4	M	99		Remove corrosion and treat.
	22	Access/Walkways/Gantries								
	23	Handrail/Parapets/Safety Fences	3	C	1.1	4	M	99		Remove rust or replace elements.
	24	Carriageway Surfacing	1	A	9.1	?	?	0		
	25	Footway/Verge/Footbridge Surfacing	1	A	9.1	?	?	0		
Other Bridge Elements	26	Invert/River Bed	1	A	7.1	?	?	0		
	27	Aprons								
	28	Fenders/Cutwaters/Collision Protection								
	29	River Training Works								
	30	Revetment/Batter Paving								
	31	Wing Walls								
	32	Retaining Walls								
	33	Embankments								
	34	Machinery								

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Ref No: **B9103/20**

Ancillary Elements	35	Approach Rails/Barriers/Walls								
	36	Signs								
	37	Lighting								
	38	Services								

Other	39	Extra Element 1								
	40	Extra Element 2								
	41	Extra Element 3								
	42	Extra Element 4								

**Multiple Defects**

No multiple defects recorded

**Inspector's Comments**

Name:

Signed:

Date: 21/06/2023

**Engineer's Comments**

Name:

Signed:

Date: 01/01/1970

**Work Required**

Reference No.	Suggested Remedial Work	Priority	Estimated Cost
1	R Repair / Maintain	High	£99
4	R Repair / Maintain	High	£99
18	R Repair / Maintain	High	£99
21	4 Remedy Corrosion	Medium	£99
23	4 Remedy Corrosion	Medium	£99

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Based on Volume 2 Addendum: August 2004

Name: **ARTHUR'S BRIDGE**

Ref No: **B9103/20**

<b>General Inspection CSS</b>		Inspector:	<b>Form 3 of 3 for this structure</b>	
Bridge Name: ARTHUR'S BRIDGE			Date: 21/06/2023	
Bridge Ref/No: B9103/20		Span Width: 8.20 m	Map Ref: 325332,867212	
BCI Span Number: 3	BCI Span Total	Length of Span: 7.62 m	Primary Deck Form: 04 Beam / Girder - At Or Below Deck Surface	
Span description:			Primary Deck Material: A Reinforced Concrete	
All above ground elements inspected:		Photographs:	Secondary Deck Form: 24 Slab - No Transverse Beams	
Number of construction forms in Bridge/Span: 1			Secondary Deck Material: B Plain / Mass Concrete	

Condition Indicator and Scores							
Average Score for structure				Span Score			
BCI av	76.38	BCS av	2.11	BCI av	82.82	BCS av	1.91
BCI crit	9.72	BCS crit		BCI crit	9.72	BCS crit	4.70

Set	No	Element Description	S	Ex	Def	W	P	Cost	M	Comments
Deck Elements	1	Primary Deck Element (Table 2)	4	C	2.1	RM	H	99		Repair and maintain
	2	Secondary Deck Element/S - Transverse Beams								
	3	Secondary Deck Element/S - Element From Table 3	6	F	0.0	?	?	0		
	4	Half Joints	4	E	2.1	RM	H	99		No difference from last inspection.
	5	Tie Beam/Rods								
	6	Parapet Beam Or Cantilever	1	A	2.2	?	?	0		
	7	Deck Bracing								
Load Bearing Sub Structure	8	Foundations	1	A	6.1	?	?	0		
	9	Abutments (Incl. Arch Springing)	1	A	2.1	?	?	0		
	10	Spandrel Wall/Head Wall								
	11	Pier/Column	1	A	2.1	?	?	0		
	12	Cross-head/Capping Beam								
	13	Bearings	1	A	12.4	?	?	0		
	14	Bearing Plinth/Shelf	1	A	2.1	?	?	0		
Durability Elements	15	Superstructure Drainage								
	16	Substructure Drainage	2	B	8.1	N	?	0		
	17	Waterproofing	1	A	14.1	?	?	0		
	18	Movement/Expansion Joints								
	19	Painting: Deck Elements								
	20	Painting: Substructure Elements								
	21	Painting: Parapets/Safety Fences	5	C	4.1	4	M	99		Remove rust and treat.
Safety Elements	22	Access/Walkways/Gantries								
	23	Handrail/Parapets/Safety Fences	3	C	1.1	4	M	99		Remove corrosion or replace element.
	24	Carriageway Surfacing	1	A	9.1	?	?	0		
	25	Footway/Verge/Footbridge Surfacing	1	A	9.1	?	?	0		
Other Bridge Elements	26	Invert/River Bed	1	A	7.1	?	?	0		
	27	Aprons								
	28	Fenders/Cutwaters/Collision Protection								
	29	River Training Works								
	30	Revetment/Batter Paving								
	31	Wing Walls	1	A	2.2	?	?	0		
	32	Retaining Walls								
	33	Embankments	1	A	11.1	?	?	0		
	34	Machinery								

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Ancillary Elements	35	Approach Rails/Barriers/Walls	1	A	3.1	?	?	0		
	36	Signs	1	A	1.1	?	?	0		
	37	Lighting	1	A	1.1	?	?	0		
	38	Services								

Other	39	Extra Element 1								
	40	Extra Element 2								
	41	Extra Element 3								
	42	Extra Element 4								

### Multiple Defects

No multiple defects recorded

### Inspector's Comments

Name:	Signed:	Date: 21/06/2023
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### Engineer's Comments

Name:	Signed:	Date: 01/01/1970
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### Work Required

Reference No.	Suggested Remedial Work	Priority	Estimated Cost
1	R Repair / Maintain	High	£99
4	R Repair / Maintain	High	£99
16	N No Action Monitor Only	?	£0
21	4 Remedy Corrosion	Medium	£99
23	4 Remedy Corrosion	Medium	£99