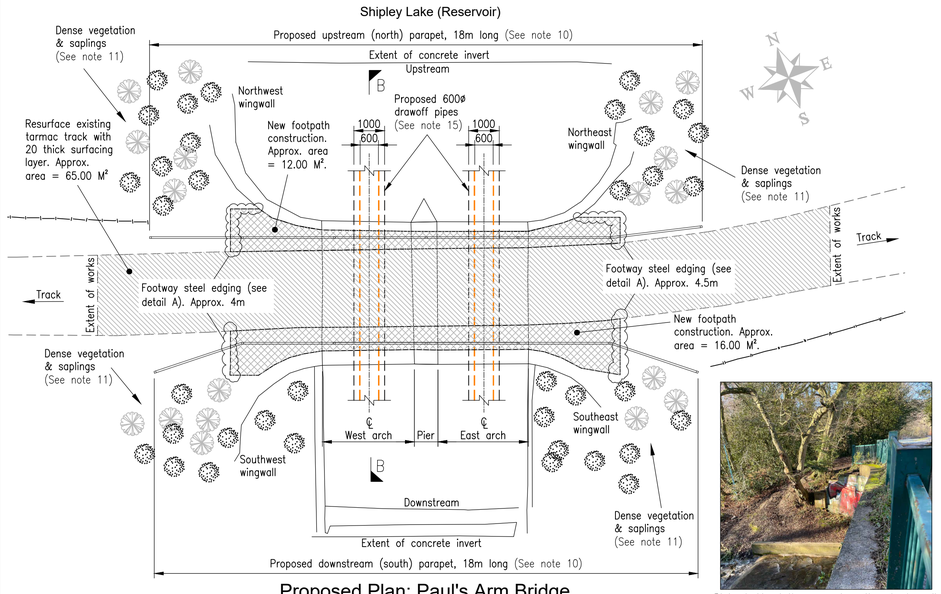
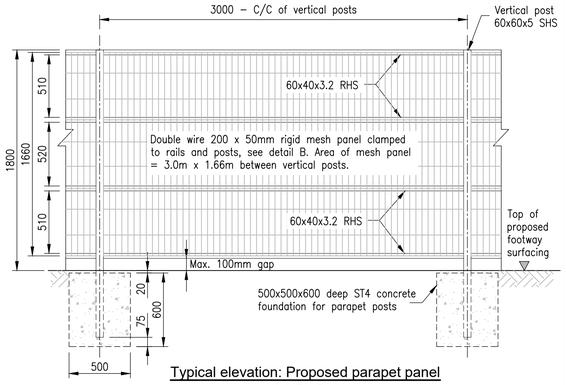


Proposed Plan: Paul's Arm Bridge

Scale 1:100

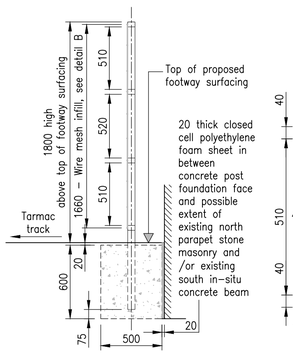
Plate 1: Vegetation around southwest wingwall

Defect & Repair Schedule			
Defect Location	**Defect**	**Quantity (approx.)**	**Repair**
West abutment	Graffiti	5.70 m²	Remove graffiti
West abutment	Repointing	4.00 m²	Repoint
East abutment	White staining	5.50 m²	Remove staining
East abutment	Repointing	4.50 m²	Repoint
Central pier downstream face	Graffiti	0.70 m²	Remove graffiti
Central pier downstream face	Repointing	0.20 m²	Repoint
Central pier upstream face	Repointing	0.10 m²	Repoint
Central pier east arch face	Graffiti + White staining	5.50 m²	Remove graffiti & staining
Central pier east arch face	Repointing	4.50 m²	Repoint
Central pier west arch face	White staining	5.00 m²	Remove staining
Central pier west arch face	Repointing	4.50 m²	Repoint
West arch barrel	White & green staining	19.00 m²	Remove staining
West arch barrel	Repointing	18.00 m²	Repoint
East arch barrel	Graffiti	6.00 m²	Remove graffiti
East arch barrel	White & green staining	13.50 m²	Remove staining
East arch barrel	Repointing	18.00 m²	Repoint
All wingwalls (3m proximity) & over the structure	Dense vegetation & saplings	200.00 m²	De-veg and remove saplings
North & south elevations including wingwalls, end finials, upstream parapet trackside face & south elevation in-situ concrete beam	Minor vegetation growth	15.00 m²	De-veg
	Cleaning of brick & stone masonry	50.00 m²	Clean
Downstream (southeast & southwest) wingwalls and end finials	Missing stone masonry	2.50 m³	Reconstruct with matching ashlar stone masonry



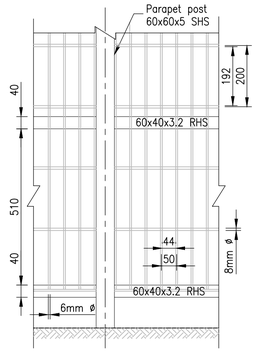
Typical elevation: Proposed parapet panel

Not To Scale



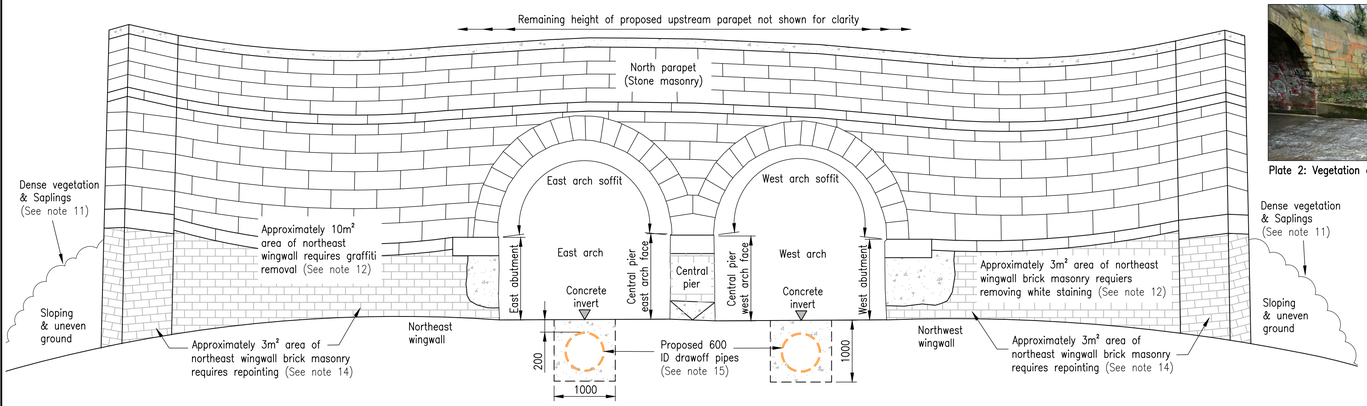
Typical section Proposed parapet panel

Scale 1:25



Detail B: Double wire 200x50mm rigid mesh panel

Scale 1:10



Proposed Upstream (North) Elevation

Scale 1:50



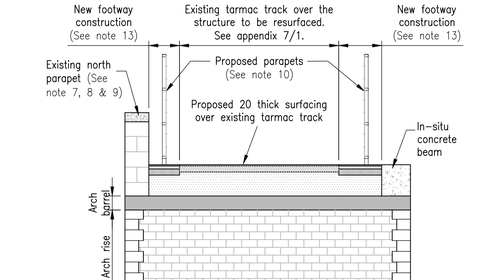
Plate 2: Vegetation around southeast wingwall



Plate 4: Northwest corner



Plate 5: West arch soffit



Proposed section B-B at Arch Crown Level

Scale 1:50



Plate 3: Northeast corner



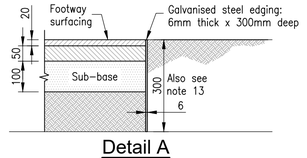
Plate 6: West arch soffit



Plate 7: East arch soffit

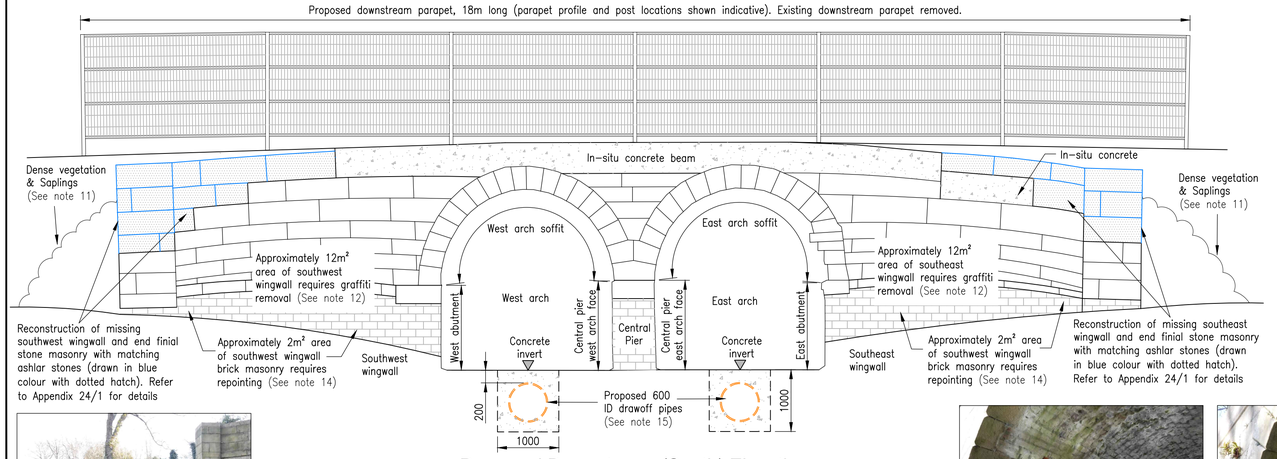


Plate 8: East arch soffit



Detail A Galvanised steel footway edging

Scale 1:10



Proposed Downstream (South) Elevation

Scale 1:50

NOTES:

(1) ALL DIMENSIONS ARE IN MILLIMETERS (mm) AND LEVELS IN METERS (M) UNLESS STATED OTHERWISE.
(2) NO DIMENSIONS ARE TO BE SCALED FROM THIS DRAWING. ANY DISCREPANCIES, ERRORS OR OMISSIONS TO BE BROUGHT TO THE ATTENTION OF THE DESIGNER.
(3) LIST OF CONSTRAINTS: REFER SECTION 4 OF "SCOPE". ALL APPENDICES TO WORKS ARE INCLUDED IN "SCOPE".
(4) THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATION APPENDICES AS MENTIONED IN "SCOPE".
(5) THE TRACK ABOVE THE STRUCTURE TO REMAIN OPEN TO THE PUBLIC THROUGHOUT THE WORKS. REFER SECTION 4 OF "SCOPE".
(6) EXISTING DOWNSTREAM (SOUTH) PARAPET TO BE REMOVED AND REPLACED WITH NEW.
(7) EXISTING HERAS FENCING PANELS IN-LINE WITH EXISTING UPSTREAM (NORTH) PARAPET TRACKSIDE FACE TO BE REMOVED.
(8) ALL STEEL ANGLES AND OTHER FIXTURES (IF ANY) ATTACHED TO TRACKSIDE FACE OF EXISTING NORTH PARAPET TO BE REMOVED. ATTACHED BARBED WIRE FENCE ATTACHED TO TOP OF ANGLES SHALL ALSO BE REMOVED.
(9) EXISTING WIRE MESH FENCING AT THE APPROACH AND DEPARTURE ENDS OF NORTH PARAPET (ADJOINING TO HERAS FENCING PANELS) TO BE REMOVED AS NECESSARY FOR THE INSTALLATION OF PROPOSED UPSTREAM PARAPET.
(10) PROPOSED UPSTREAM AND DOWNSTREAM PARAPETS TO BE CONTRACTOR DESIGNED. THE PARAPET FINISH TO BE IN ACCORDANCE WITH THE SPECIFICATION APPENDIX SERIES 1900. SEE APPENDIX 19/1, 19/3 AND 19/5 OF SCOPE. SEE APPENDIX 4/1 OF SCOPE FOR PARAPET SPECIFICATION AND FABRICATION. THE CONTRACTOR TO SUBMIT DIMENSIONAL AND LEVEL SKETCH OF PROPOSED PARAPET FOR CLIENT'S APPROVAL PRIOR TO FABRICATION.
(11) ALL SAPLINGS AND DENSE VEGETATION TO BE GRUB UP WITHIN 3M PROXIMITY TO ALL FOUR WINGWALLS. ACTUAL QUANTITIES TO BE AGREED ON-SITE.
(12) ALL AREAS OF EXISTING GRAFFITI AND ANY OTHER STAINING TO BE REMOVED EXPOSING RELEVANT STRUCTURE FASCIA AS OUTLINED IN THE DRAWINGS AND IN ACCORDANCE WITH THE SPECIFICATION APPENDIX SERIES 24/70. CONTRACTOR TO MAKE AN ALLOWANCE, EXACT AREAS TO BE AGREED AND CONFIRMED ON SITE.
(13) REFER TO APPENDIX 11/1 FOR NEW FOOTWAY CONSTRUCTION OVER EXISTING UNPAVED NORTH AND SOUTH VERGES.
(14) REFER TO APPENDIX 24/1 FOR "PREPARATIONS, CLEANING OF BRICKWORK / STONEWORK AND REPOINTING" OF LOCATIONS AND AREAS AS MENTIONED IN THIS DRAWING.
(15) PROPOSED 600 ID (INTERNAL DIAMETER) DRAWOFF PIPE ENCASED IN CONCRETE AT THE CENTER OF EAST AND WEST ARCH SPAN.
(16) THE SCOPE OF THIS MAINTENANCE WORKS EXCLUDES THE WORKS RELATED TO PROPOSED DRAWOFF PIPES AS PER NOTE 15.

AMENDMENT DETAILS	By	Chkd	Appd	Date	No.
• Detail A.1 and Reference to Detail A.1 removed where applicable. • Typical elevation: Proposed parapet panel revised. • Typical section: Proposed parapet panel revised. • Proposed downstream (south) elevation revised. • Detail B revised. • Note 10 revised.	PD	LJ	LJ	02/09/24	C
• Proposed downstream (south) elevation amended to show missing in-situ concrete to southeast wingwall.	PD	LJ	LJ	18/07/24	B
• Amendments following AVBC Heritage Consultants recommendations. • Solid infill panels replaced with mesh infill panels to proposed parapets. • Works related to reconstruction of missing parts of downstream wingwalls and end finials with matching ashlar stones added. • Footway concrete edging detail replaced with steel.	PD	LJ	LJ	24/05/24	A

DRAWN BY	CHECKED BY	APPROVED BY	SCALE @ A1
PD	LJ	LJ	AS SHOWN
Date 05 / 02 / 2024	Date 05 / 02 / 2024	Date 05 / 02 / 2024	

DRAWING STATUS: FOR PLANNING
CLASSIFICATION: CONTROLLED

ORIGINAL DRAWING SIZE 841 x 594 (A1)

DERBYSHIRE County Council
Chris Henning
Executive Director - Place

PLACE
STRUCTURES DESIGN SECTION
HIGHWAYS DIVISION
bsi. ISO 9001 Quality Management
FM641223 / FM641224

PROJECT TITLE
MAINTENANCE WORKS TO PAUL'S ARM BRIDGE SHIPLEY LAKE RESERVOIR, HEANOR

DRAWING TITLE
PROPOSED WORKS

DCC Project Reference Number: 4646.04

Drawing Number: E44015 / 4646.04 / 02 / Rev C

File Location: \\D-fs01\ES Departmental\Consulting-and-Contracting\Structures-temp\Assessments\Various Assessments 2020\E44015 Paul's Arm\Repair Works 2023\Drawings\E44015-4646.04-02_Rev C.dwg
Date printed: January 5, 2026