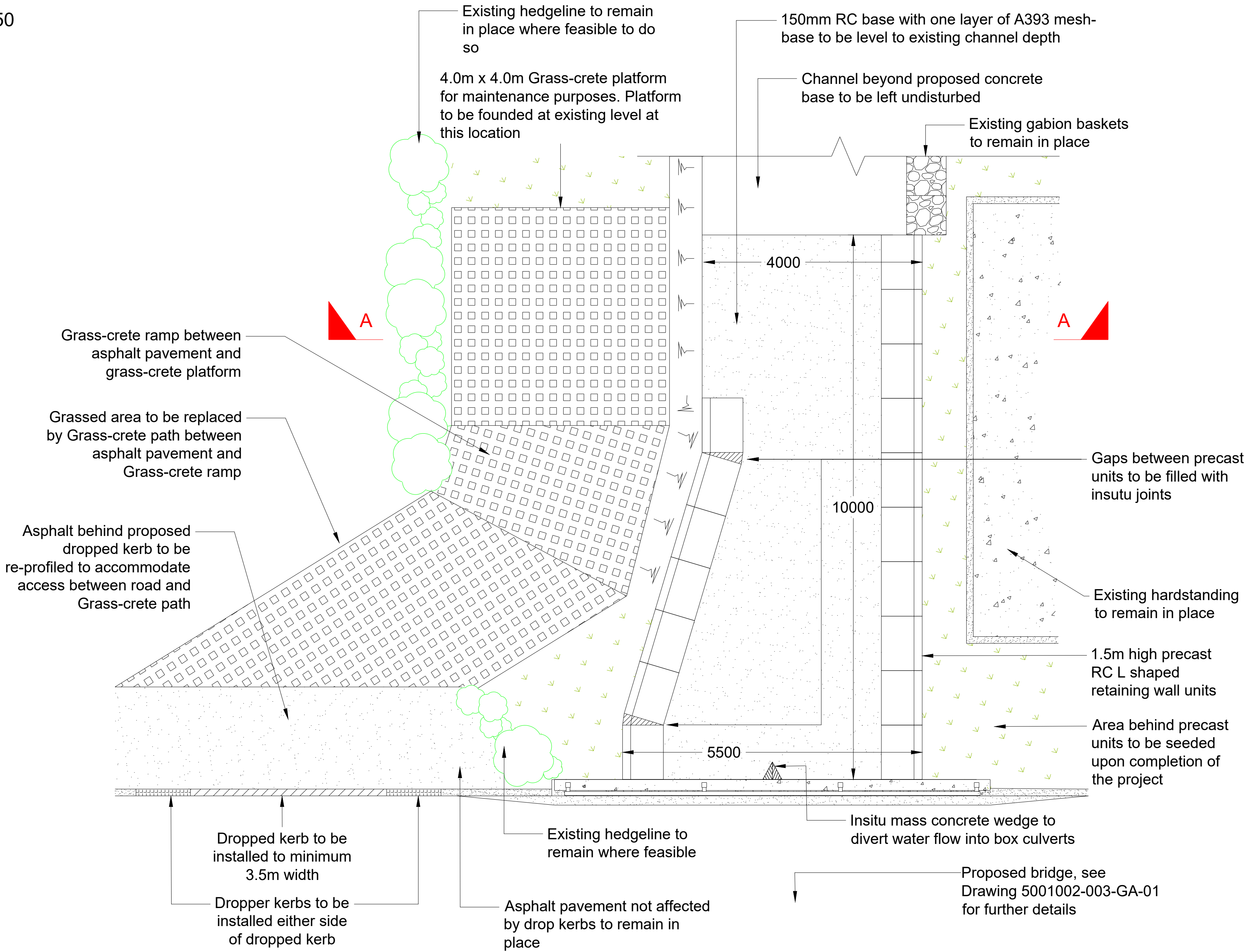


Upstream Watercourse Plan

Scale@A1 1:50



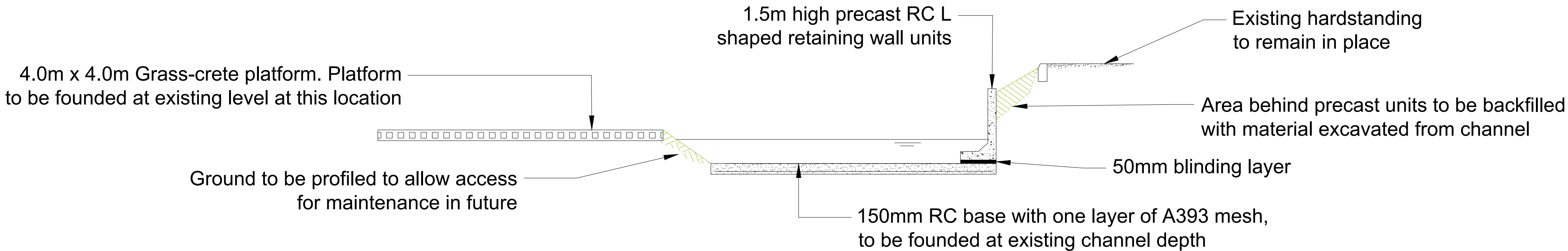
- SUB-BASE**
- The sub-base shall be constructed by Type 1 compacted in layers. Sub-base shall be placed and compacted in layers in accordance with Series 800 of Specification of Highway Works.
 - Any trimming of the sub-base shall leave the sub-base homogenous and well compacted.
 - The finished surface of the sub base should be within +0,-15mm tolerance.
 - Sub-base finished levels should be surveyed on completion by the contractor.
- BLINDING CONCRETE**
- Use ST2/C10 concrete mix with 10 Newton/28 day strength as blinding concrete layer.
- EXPANSION JOINT**
- 20mm compressible filler board and sealed with polysulphide flexible sealant (waterproof sealant) or equivalent.
- CONCRETE**
- Proposed concrete is C40/50. Class of concrete for the work based on 28 days minimum compressive strength. Concrete exposure class to be XC3/4, XD3, XF4, AC 2.
 - Maximum water cement ratio (W/C) shall be 0.45.
 - Slump test to be performed on all concrete batches at point of discharge from delivery truck.
 - Slump shall be measured in accordance with BS EN 12350-2/relevant standards. Flow shall be measured in accordance with BS EN 12350-5. Slump flow shall be measured in accordance with BS EN 12350-8.
 - Number of Slump tests to taken shall be determined by the contractor.
 - The sampling and testing of concrete shall comply with requirement given in Annex B of BS EN 206-1 and Annex B of BS 8500-1.
 - Aggregates - (1) Use coarse natural maximum 20mm size aggregate; (2) Freeze-thaw resisting aggregate to be used; (3) Aggregates to be free from impurities.
 - Prior to the supply of concrete, the contractor and the concrete supplier should agree the admixture type, admixture addition time and method, concrete mixing and checking procedure. No site mixing of admixture shall be allowed. No water to be added to concrete on site.
 - Concrete to be transported in compliance with Clause 14 of BS 8500-2: 2015.
 - Fresh concrete shall not be placed against in situ concrete that has been position for more than 30 minutes, unless a construction joint is formed.
 - Concreting operations shall not displace reinforcement, or damage formwork where applicable.
 - Concrete shall be thoroughly compacted by vibration during the operation of placing, and thoroughly worked around the reinforcement and into corners of the formwork to form a solid mass free from voids. The placing and vibration of concrete including cold & hot weather work to be in accordance with relevant specifications.
- BOX CULVERT**
- Box culvert dimensions and type are subject to change based on manufacturer specification.
 - Box culvert used in drawing is based on box culvert specifications provided by FP McCann's Box Culvert brochure, available at fpmccann.co.uk/uk/box-culverts/.
 - Box culvert shown in drawing based on internal dimensions only, therefore some dimensions have been assumed. Box culvert used in drawing is based on 2400x800mm internal dimension product, with an assumed wall thickness of 150mm.

Rev.	Amendment	Date	Drawn	Ck'd

- GENERAL NOTES**
- This drawing is for information purposes only and is subject to change.
 - Do not scale from this drawing.
 - Should any discrepancies be encountered on the drawing, the engineer is to be informed immediately.
 - All dimensions and levels shown to be checked and confirmed on site prior to commencing fabrication/general works.
 - For notes on specific materials used within the drawing please see bottom left corner.

Upstream Watercourse Section

Scale@A1 1:40



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 Cynghor Bwrdeistref Sirol MERTHYR TYDFUL County Borough Council	MERTHYR TYDFIL COUNTY BOROUGH COUNCIL ENGINEERING DIVISION		
UNIT 5 TRIANGLE BUSINESS PARK PENTREBACH MERTHYR TYDFIL CF48 4TQ			
PROJECT TITLE: Maestaf Bridge Replacement Pentrebach Merthyr Tydfil			
DRAWING TITLE: Watercourse Works			
DRAWN: AP		APPROVED: GJ	
CHECKED: GJ		DATE: 2/2/22	SCALE: --
PROJECT NO.: 5001002		DRAWING NO.: 004-WW-01	REV.: 01