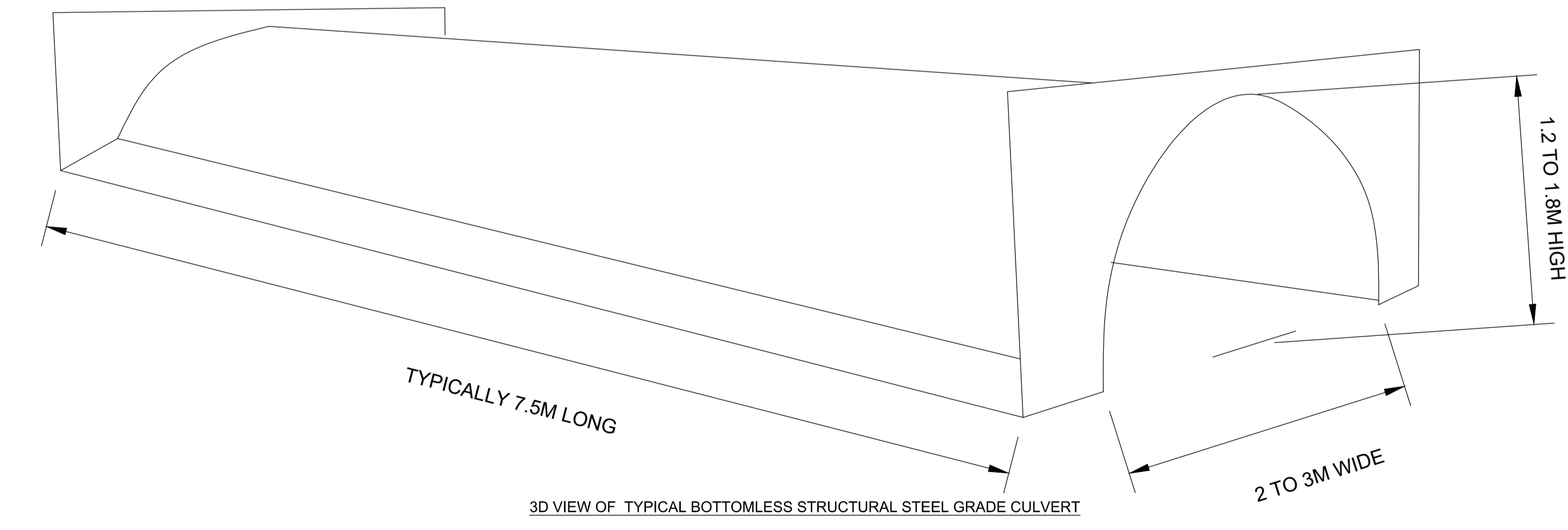
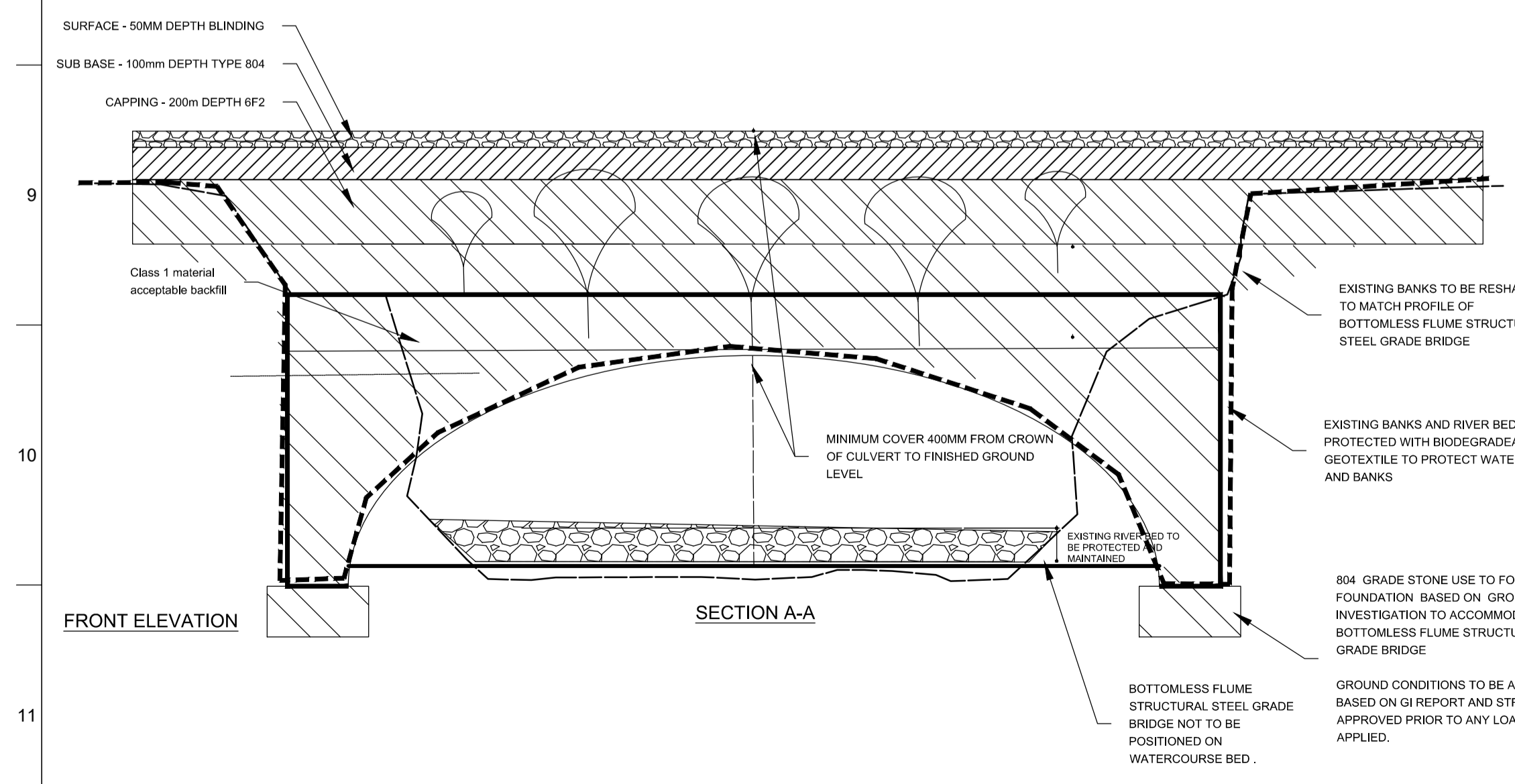
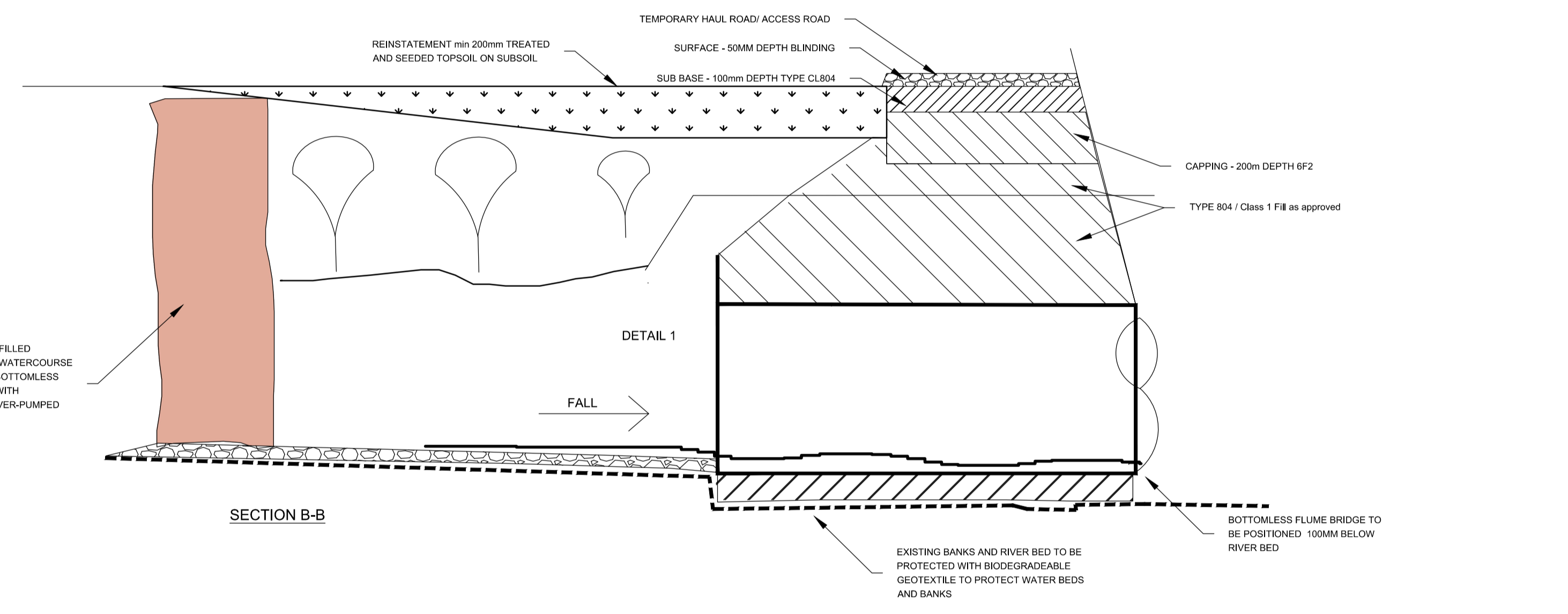
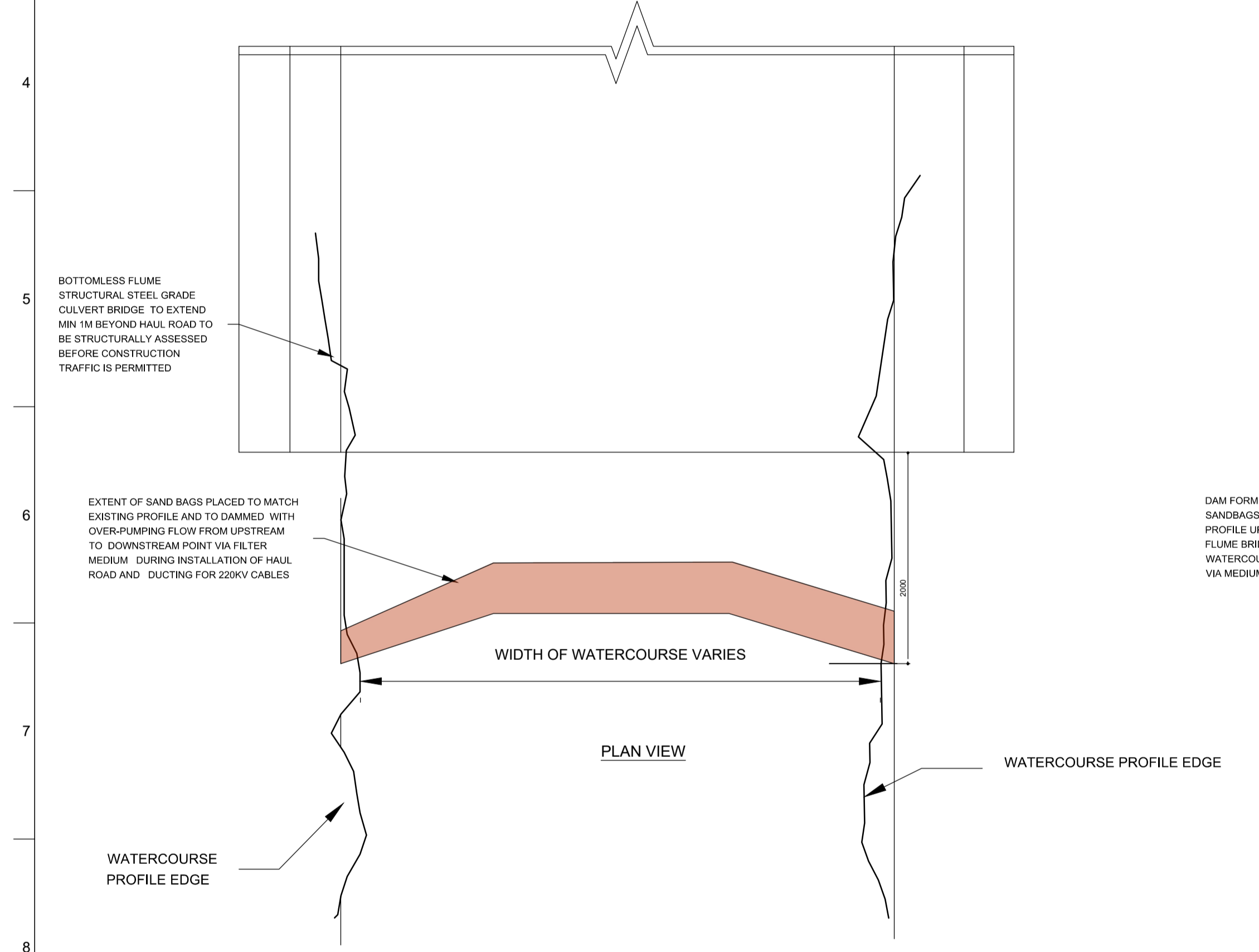


TYPICAL TEMPORARY WATERCOURSE CROSSING - DAMMING / OVERPUMPING - CHAINAGE 3830 (WC 6)

SCHEDULE WATERCOURSE CULVERT / BRIDGE CROSSINGS FOR HV CABLE TRENCHES AND HAUL ROADS AND PERMANENT MAINTENANCE ROADS

Ref	Watercourse title	CH	Approx. Invert depth	PC CULVERT/ STEEL /UPVC FLUME BOTTOMLESS CULVERT Y/N	Approx. Culvert Pipe Dia.
OD1A	Open ditch	-435	1.9	Y	2m
WC 1	JOHNSTOWN NORTH	570	2.968	Y	2m
WC 2	JOHNSTOWN SOUTH	900	3.88	Y	900mm
OD1	Open ditch	1430	2.156	Y	2m
WC 3	TIKNOCK	1500	2.071	Y	2m
WC 4	COOLBOY	1940	3.068	N	N/A
WC 5	TEMPLERAINY	2700	2.771	N	N/A
WC 6	KILBRIDE	3830	4.189	Y	3m
WC 7	SHEEPWALK	4650/4460	1.610/1.610	N	N/A
WC 8	SHEEPWALK	4850	N/K	N	N/A
WC 9	Culvert at new Substation	5470	N/K	N	N/A

- Notes:
- Culvert / Bottomless Flume Pipe/Culvert sizes indicative and subject to structural / hydraulic design in relation to flow capacity of watercourse.
  - Inverts Depths and methods of works subject to trial pit & geotechnical investigation and soil types in relation to grading / trench box.
  - Silt Management plan to be provided for all crossings in advance of any relevant works
  - All works subject to permits and licences being approved by EPA, IFI, OPW and landowners in advance of any works.
  - All crossing points to facilitate for 2 number permanent 220 kv HV cable trenches (3nr 250mm OD dia) with earth bond + telecommunication cable (2nr 125mm OD dia.) Each trench with= 1.825m wide for flat formation and 800mm wide for trefoil formation).
  - All electrical works as per Electrical Engineers design.



PL1	22.03.21	SB	SO'S	MW
Rev	Date	By	Chkd	Appd

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Client  
**Sure Partners Limited**

Design Consultant  
**AECOM**

Project Title  
**Arklow Bank Wind Park  
Phase 2  
Onshore Grid Infrastructure**

Drawing Title  
**Typical Watercourse Crossing Details  
Sheet 2 of 2**

Scale at A1  
Plan NTS, Sections 1:25

Role  
Civil

Suitability  
Planning

Arup Job No  
**271715-00**

Rev  
**PL1**

Name  
**ONS-GEN-003b**