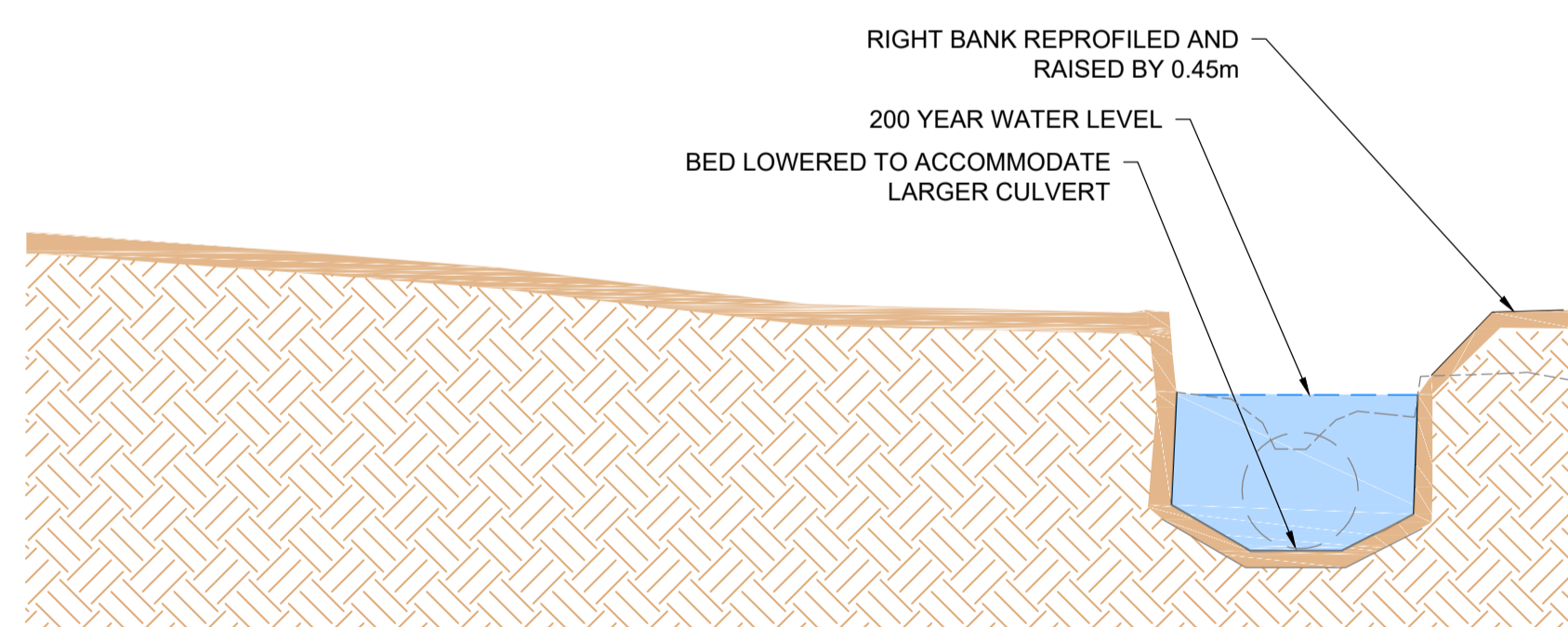


PLAN
1:2000

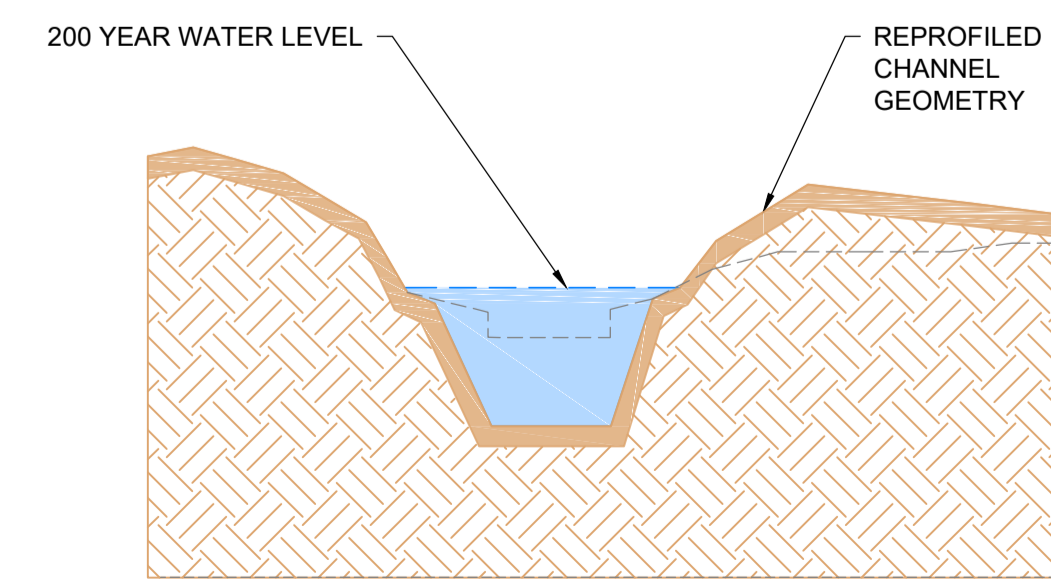
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Innerleithen Option 3: Chapmans Burn 200 Year Culvert Upgrade & Improved Channel Conveyance

REPLACEMENT CULVERTS		
Manhole	Existing Culverts	Proposed Culverts
ID Number	Diameter (mm)	Diameter (mm)
NT32368901	280	850
Inlet_0000	300	1200
XXX1	300	900
XXX3	450	900
XXX4	450	900
XXX5	450	900
XXX6	450	900
XXX7	600	900
XXX8	600	900
XXX9 UTR	600	1200
XX10	600	1350
XX11 UTR	600	1350
XX12 UTR	600	1350
XX13 UTR	600	1350
XX14 UTR	600	1350
XX15	600	1350
XX16	600	1500
XX17	600	1500
XX18	600	1500
XX19 UTR	675	1500
XX20	675	1500
XX21	675	1500



SECTION A-A
1:50



SECTION B-B
1:50

OPTION SUMMARY. Improve conveyance of open channel and upgrade existing FPS culvert to provide a 1 in 200 year standard.
In this case the small culvert under St Ronans Terrace needs to be upgraded to a 850 mm culvert.
Upper headwall (St Ronans Terrace) could be raised slightly to 170.77 mAOD + freeboard from 170.51 mAOD and low section on right and left bank filled to the same level.
Drop channel over 10m on approach to FPS culvert inlet, raise right bank by approximately 150mm + freeboard in the region of section Chap_009.
Upgrade FPS culvert as shown in the table provided.

- LEGEND**
- EXISTING GROUND LEVEL
 - FINISHED GROUND LEVEL
 - 200 YEAR FLOOD LEVEL
 - UPGRADED CULVERT
 - RAISED EMBANKMENT
 - STORM WATER SEWER
 - EXISTING WATERCOURSE
 - ⊕ MANHOLE / CULVERT INLET

Rev.:	Date	Drawn	BH	Designed	JG	Checked	AP	Approved
P02								

Comments: Background mapping transparency reduced and manhole / culvert inlets altered

Client Approval:
A - Approved
B - Approved with Revisions
C - Do Not Use

Purpose of Issue: Suitable for Coordination Status: S1

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Project: **Borders Flood Studies**

Title: **Innerleithen: Option 3 Chapman's Burn
200 Year Culvert upgrade with improved channel conveyance**

Client: **MOTT MACDONALD** for **Scottish Borders COUNCIL**

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Scale: As Shown @ A1	Drawn: A Coad	13/02/18
	Designed: J Garrett	12/02/18
	Checked: A Pettit	12/07/18
	Approved:	

Project Number: 2017s5526	Revision: P02
Drawing Number: AEM-JBAU-IL-CB-IM-C-1100	