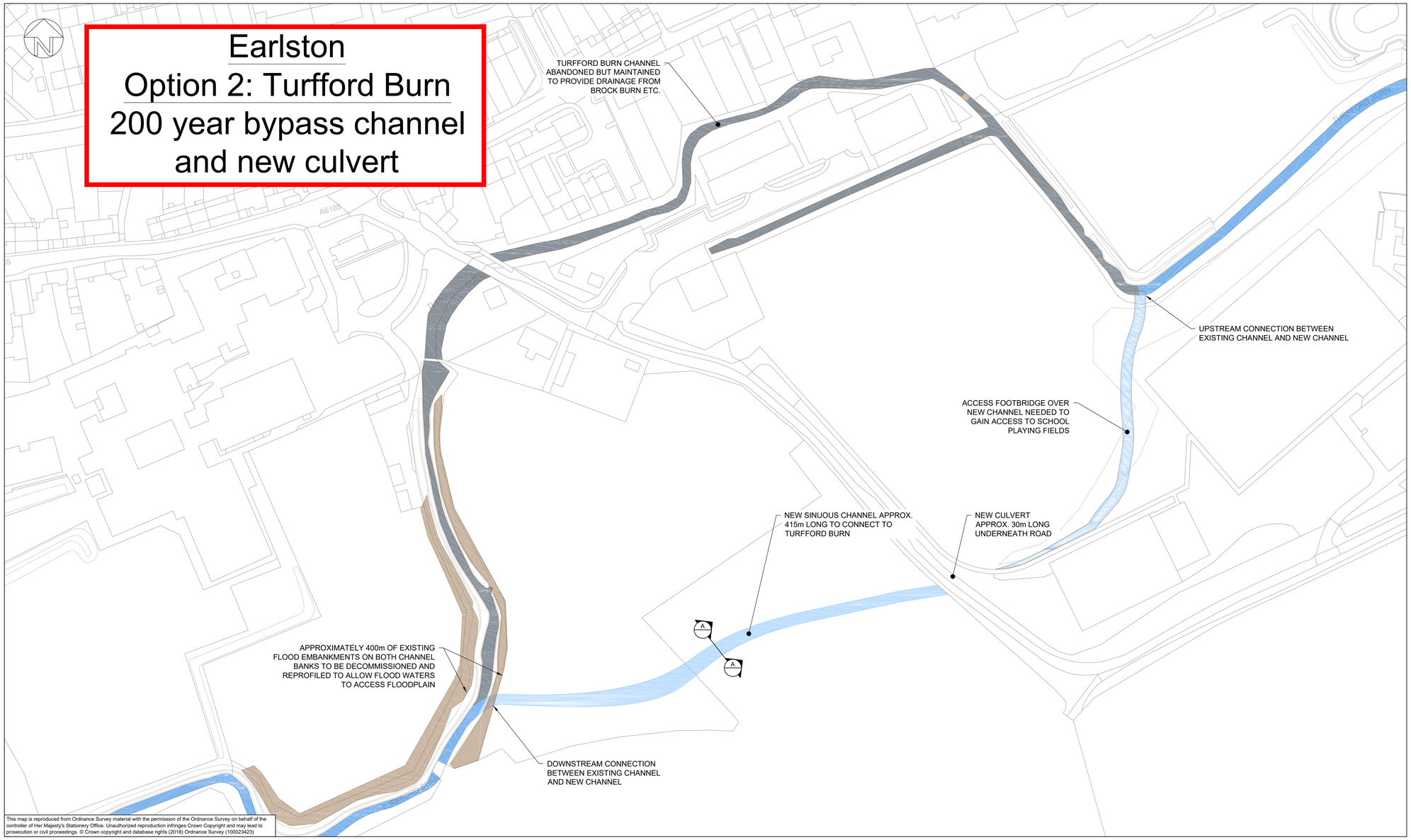
Earlston
Option 2: Turfford Burn
200 year bypass channel and new culvert



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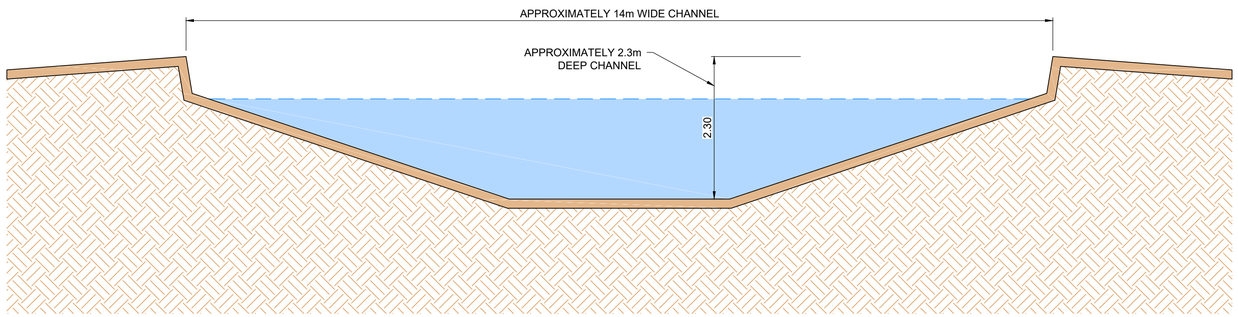
PLAN
1:1000



SECTION A-A
1:200

OPTOIN SUMMARY. This option aims to provide a high standard of protection through the installation of an approximately 415m long replacement channel positioned around the High School athletics pitch to allow all of the burns' flow to bypass the main channel and the current FPS channel. The work includes the following:
1. Excavate a 415m long channel to a maximum depth of 2.3m, bottom width of 3m, side slope of 1 in 3, channel slope of 1:200 and a Manning's n roughness value of 0.035.
2. Lower the left bank of the Turfford Burn at the entrance to the new channel by approximately 1.8m.
3. Block the current Turfford Burn and FPS channels at the entrance to the new channel.

LEGEND
- 200 YEAR FLOOD LEVEL
- EXISTING WATERCOURSE
- DIVERSION WATERCOURSE
- ABANDONED CHANNEL

Rev.:	Comments	Date	Drawn	Designed	Checked	Approved

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: Earlston
Turfford Burn: Option 2
200 Year Total Bypass Channel
for

Client: MOTT MACDONALD; Scottish Borders Council

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Scale: As Shown @ A1

Drawn:	A Coad	13/02/18
Designed:	B Bedford	12/02/18
Checked:	A Pettit	12/07/18
Approved:		

Project Number: 2017s5526

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Revision: P02