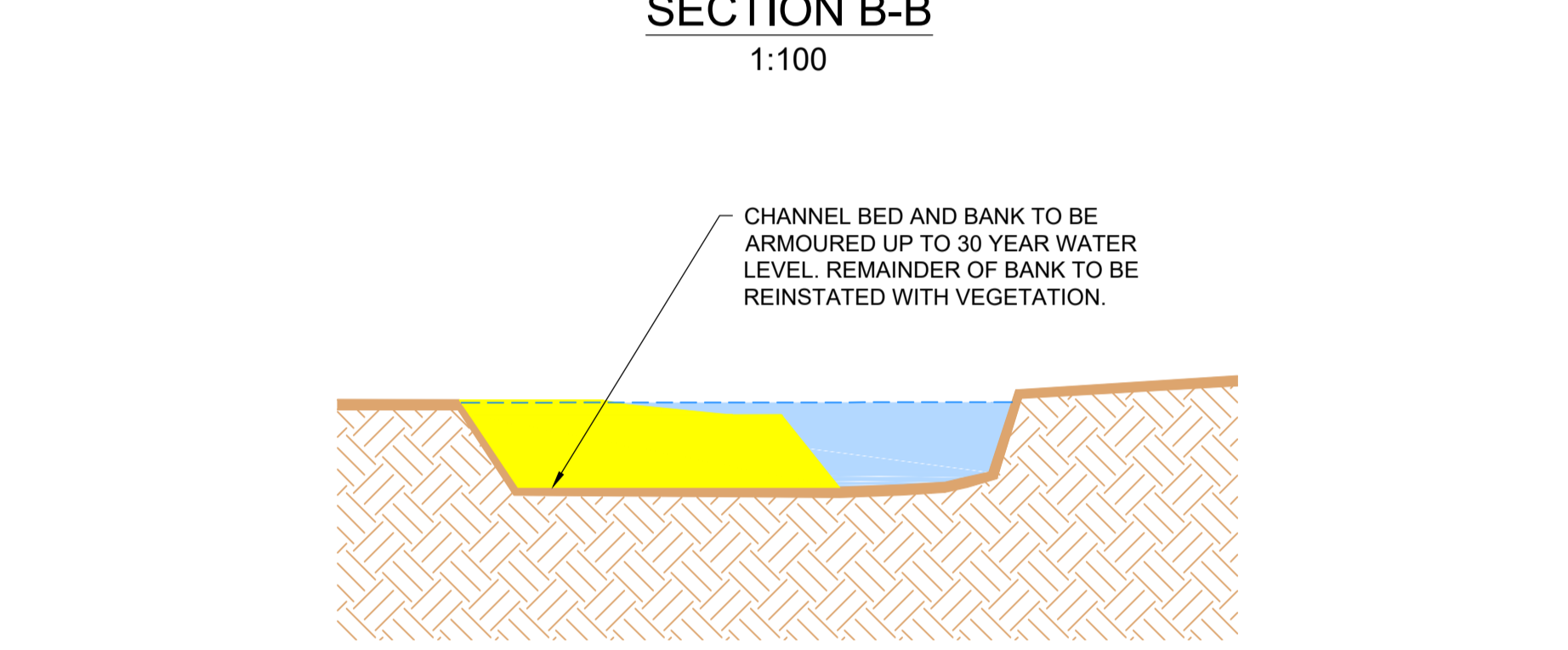
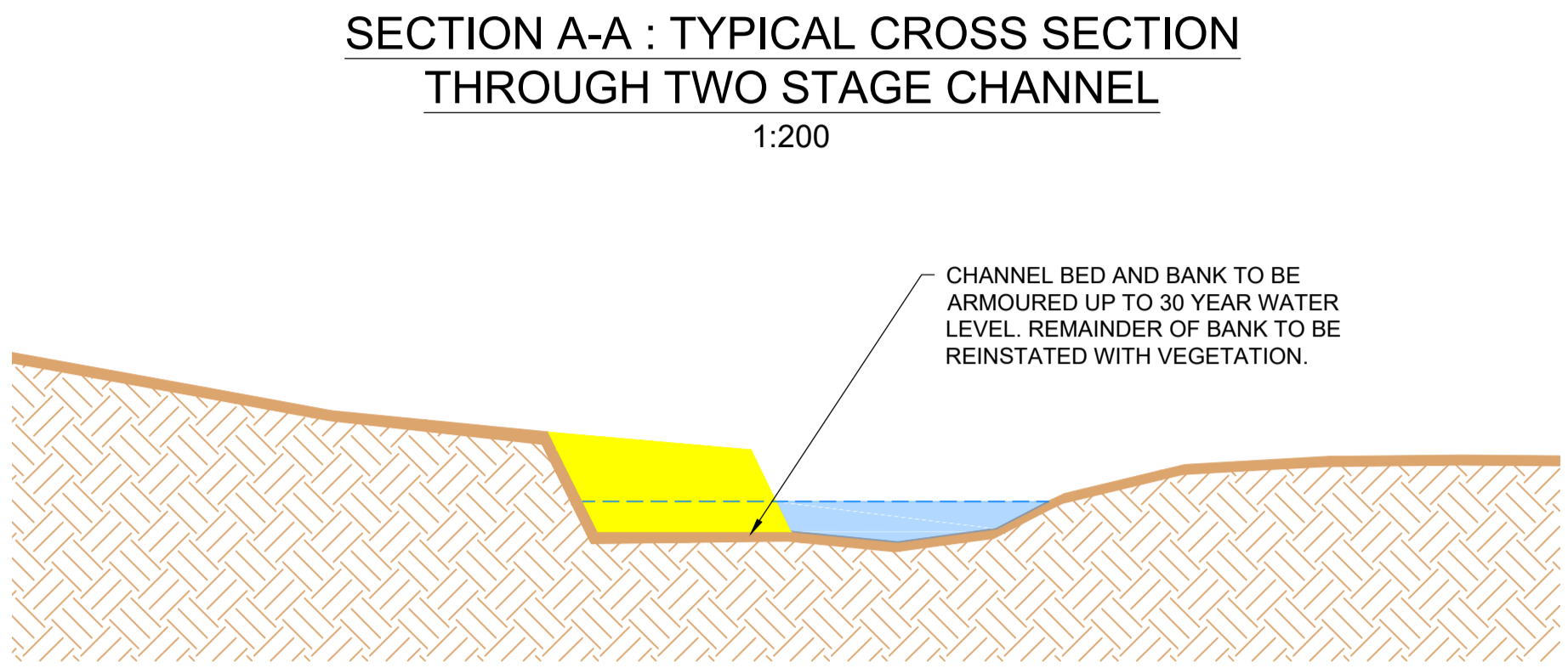
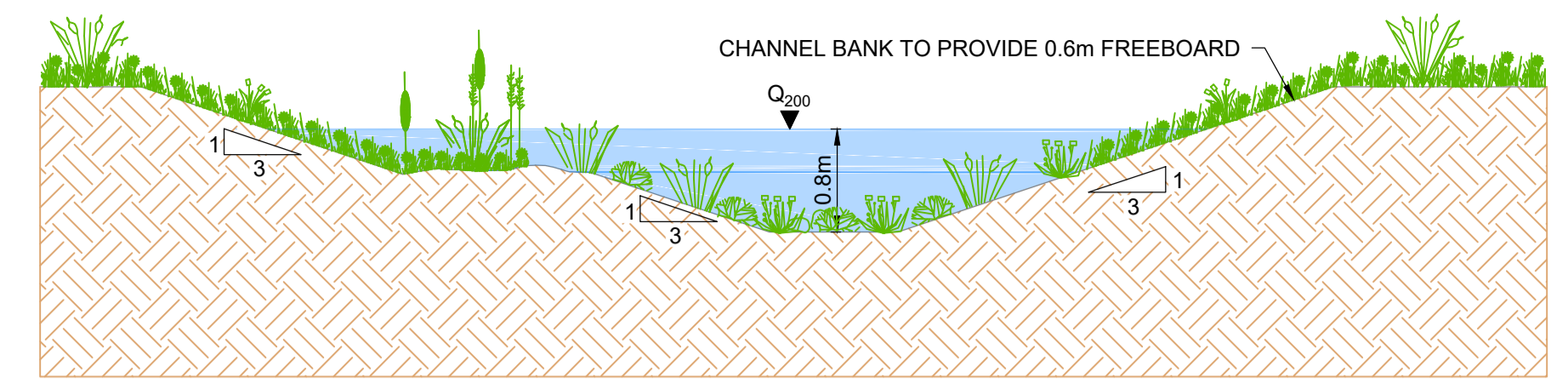
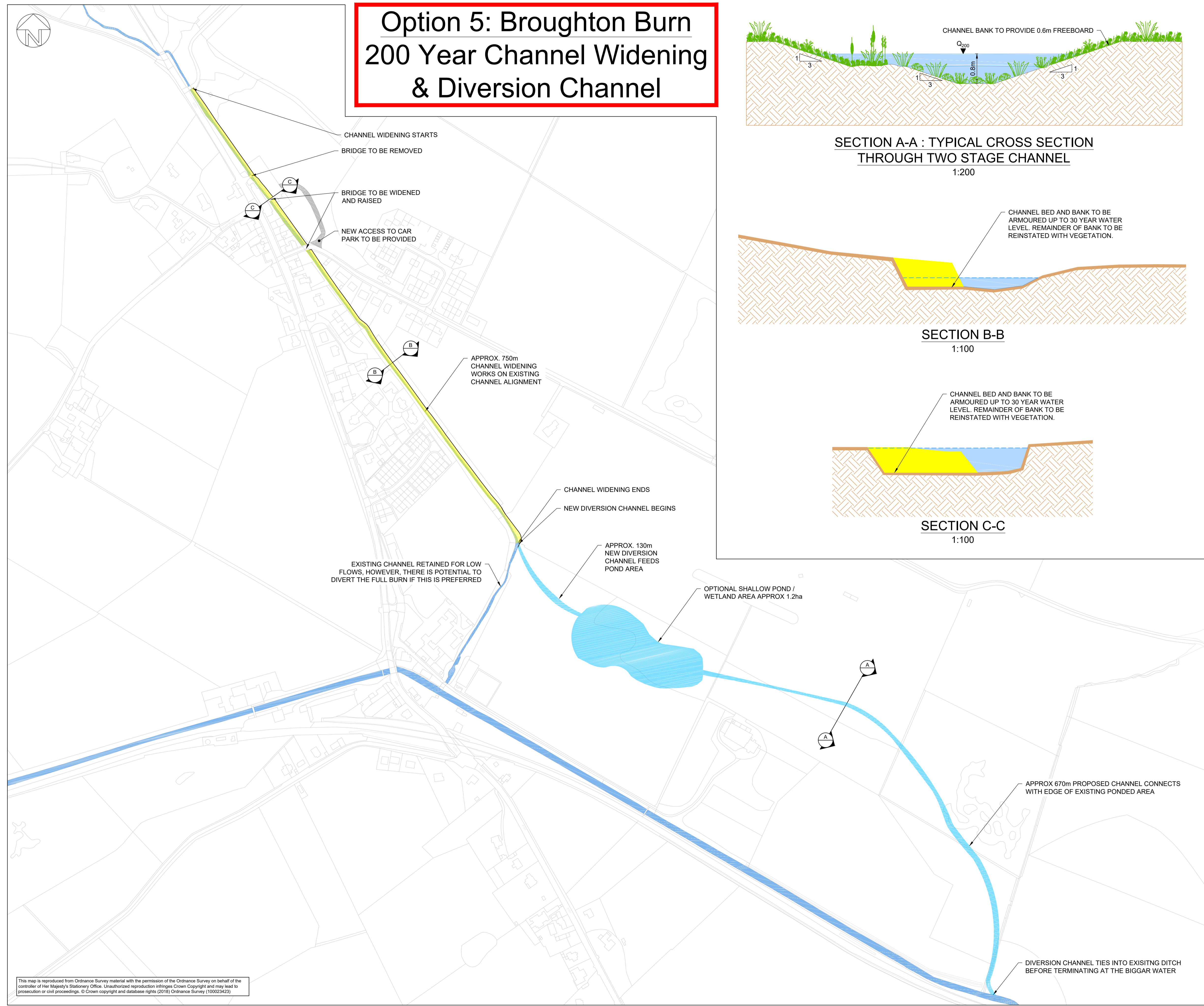


Option 5: Broughton Burn 200 Year Channel Widening & Diversion Channel



OPTION SUMMARY.
THIS IS A COMBINATION OF OPTIONS 3 AND 4.
Option 3. The natural topography would allow for the creation of a diversion channel on the Broughton Burn, from the first bend in the river upstream of Broughton Primary School across the low lying agricultural land and into the Biggar Water downstream of Easter Calzeat House. The swale would be approximately 5m wide by 0.6m deep. This option, combined with Option 4 omits the need for flood walls and may provide wider environmental benefits through the creation of new wetlands and community greenspace along the diversion channel.
Option 4. Channel widening aims to reduce flood levels and the need for flood defences. This option would work by widening the left bank of the channel by between 0.5m to 6m. Bridge modifications/replacement may also be required to ensure sufficient conveyance of flood flows through the structures.

LEGEND

- EXISTING GROUND LEVEL
- 200 YEAR LEVEL AFTER CHANNEL WIDENING
- EXISTING WATERCOURSE
- WIDENED WATERCOURSE
- DIVERSION WATERCOURSE

Rev.:	Date	Drawn	Designed	Checked	Approved
Client Approval					
A - Approved					
B - Approved with Revisions					
C - Do Not Use					
Purpose of Issue					Status
Suitable for Coordination					S1

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Project
Borders Flood Studies

Title
Broughton
Biggar Burn : Option 5
200 Year Channel Widening And Diversion Channel
for

Client
MOTT MACDONALD

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PLAN
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