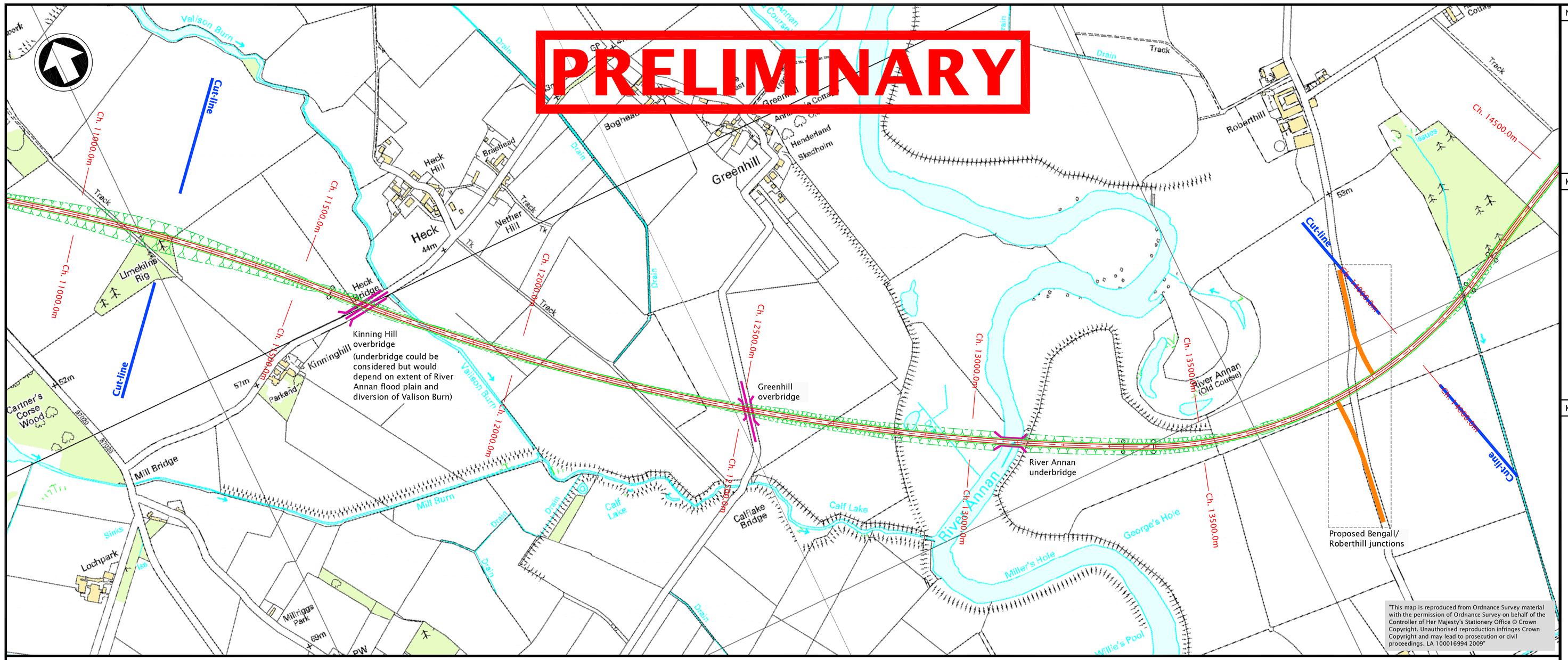

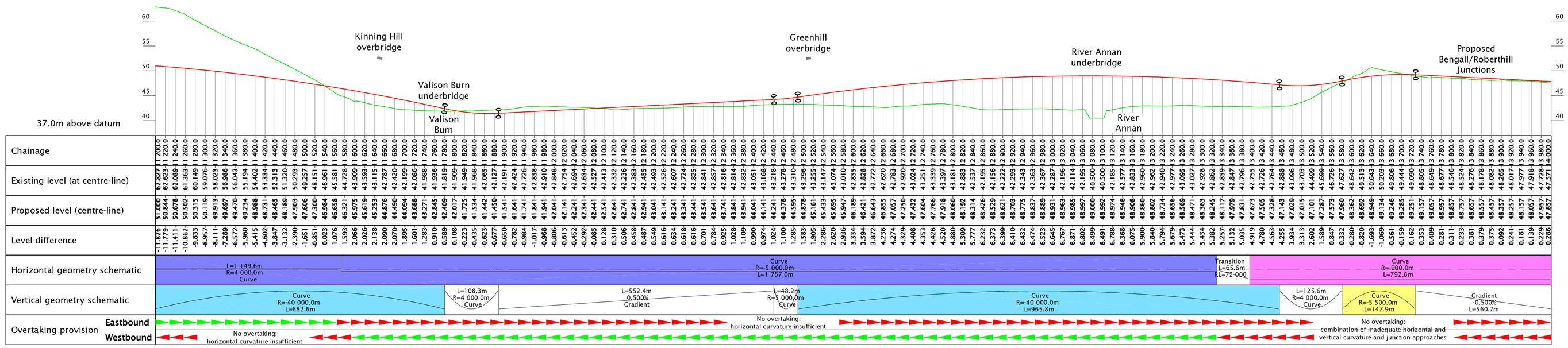

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Notes

1. Horizontal alignment based on Ordnance Survey MasterMap data supplied by Dumfries and Galloway Council - licence as shown on plan.
2. Vertical alignment and earthworks footprint based on NextMap Digital Terrain Model supplied by Dumfries and Galloway Council.

Key to Route Plan

- Proposed Main Line A709 alignment carriageway and earthworks footprint
- Proposed junction location, or existing junction to be retained
- Alternative junction layout/location
- Proposed overbridge/underbridge to maintain existing highway or provide accommodation crossing
- Existing highway to be stopped off

Key to Longitudinal Section and Schematics

Section profiles

- Proposed vertical alignment profile with tangent points and ordinates at 20m intervals
- Existing ground level profile along proposed centre-line

Compliance of alignment geometry elements with DMRB* standards
(listed in order of ascending severity)

- Minimum to provide overtaking in both directions**
- Sufficient to provide overtaking in one direction only**
- Above Desirable Minimum but not sufficient to provide overtaking
- Desirable Minimum (or Desirable Maximum gradient)
- 1 Step below Desirable Minimum***

* Design Manual for Roads and Bridges, Volume 6, Section 1, Part 1: TD 9/93 Highway Link Design
** NB additional factors can influence overtaking provision, particularly junction locations - please refer to the overtaking provision schematic
*** Recommended for vertical crest curves in Non-overtaking sections - see DMRB, TD 9/93 Para. 7.30

Overtaking provision schematic

- Extent of Overtaking Section
- Extent of Non-overtaking Section with reason(s) for restriction

NB Overtaking schematic is generally divided into Eastbound and Westbound directions as indicated by the arrowheads

Rev	Date	Drawn	Description	Ch'k'd	App'd
P1	02/03/'09		Preliminary Issue.		

Mott MacDonald
Mott MacDonald House
111 St. Mary's Road
Sheffield S2 4AP
United Kingdom
T +44 (0)114 2761242
F +44 (0)114 2724699
W www.mottmac.com

Client
mvaconsultancy
7th Floor
78 St Vincent Street
Glasgow
G2 5UB

Title
Dumfries to A74(M) Link STAG2
A709 Single Carriageway Off-line Option

Alignment Route Plan and Longitudinal Section
Chainage 11200m to 14000m (Sheet 5 of 6)

Designed	G Broughton		Eng.Chk.	S Rotherham
Drawn	G Broughton		Coordination	.
Dwg.Chk.	G Sri-Pathmanathan		Approved	M A Staniland

Scale at A1: 1:5000 Hor./1:500 Ver.
Project: 254583
CAD file: P:\Sheffield\254583 Dumfries STAG2 Highway Advice-CDP\3.0 MM Drawings\3.4 Current Masters\1100 A709 S2 Align\1105 P1.dwg
Status: PRE
Drawing No: 254583 / SHF / 1105
Rev: P1