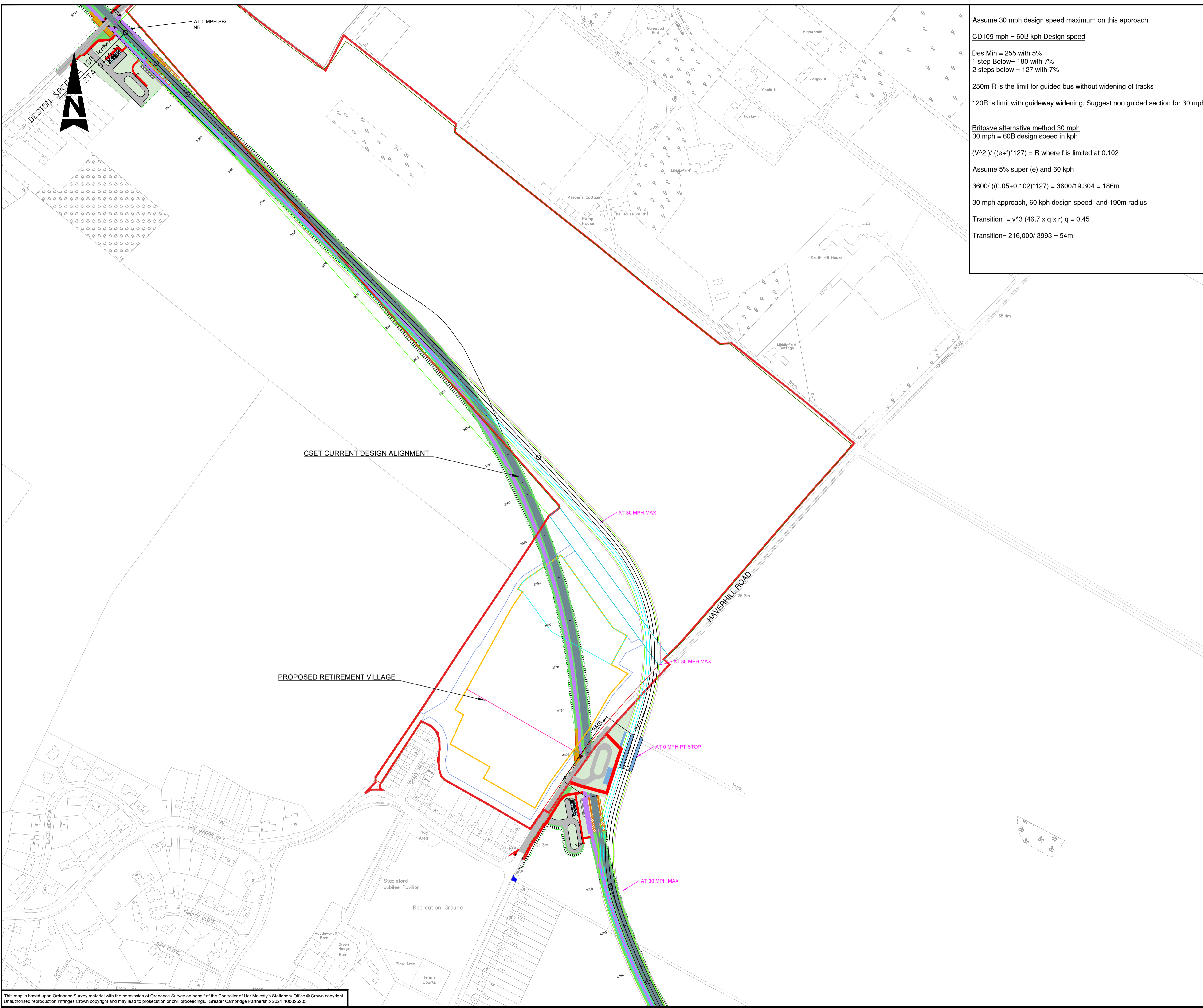


DO NOT SCALE

100  
0 10  
Millimetres



Assume 30 mph design speed maximum on this approach  
**CD109 mph = 60B kph Design speed**  
 Des Min = 255 with 5%  
 1 step Below = 180 with 7%  
 2 steps below = 127 with 7%

250m R is the limit for guided bus without widening of tracks  
 120R is limit with guideway widening. Suggest non guided section for 30 mph

Britpave alternative method 30 mph  
 30 mph = 60B design speed in kph

$(V^2) / ((e+f)*127) = R$  where f is limited at 0.102  
 Assume 5% super (e) and 60 kph  
 $3600 / ((0.05+0.102)*127) = 3600/19.304 = 186m$   
 30 mph approach, 60 kph design speed and 190m radius  
 Transition =  $v^3 (46.7 \times q \times r) q = 0.45$   
 Transition =  $216,000 / 3993 = 54m$

- Notes:**
- THIS DRAWING IS A DRAFT WORK IN PROGRESS AND REQUIRES RAW SOURCE FILES TO VERIFY IMPACT FROM ADJACENT PLANNING APPLICATIONS.
  - THIS DRAWING IS NOT TO BE SCALED. THE CONTRACTOR IS TO VERIFY DIMENSIONS ON SITE AND ADVISE OF ANY INFORMATION DISCREPANCIES.
  - THIS DRAWING IS BASED AROUND SCALED AND TRACED PDF FILES FOR THE PROPOSED DEVELOPMENT. THE ACCURACY OF THESE CANNOT BE RELIED UPON
  - ALL DIMENSION REFERENCED ARE IN METRES
  - DRAWING IS TO BE PRINTED IN COLOUR.
  - THE AERIAL EXTRACT IS TAKEN FROM THE ILLUSTRATIVE MASTERPLAN FROM THE PLANNING APPLICATION

**KEY:**

- PLANNING APPLICATION BOUNDARY
- VERGE
- INDICATIVE EARTHWORKS (TBC)
- 3.5m ATC

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).

Construction	TRUNK WATER MAIN AND MEDIUM PRESSURE GAS MAIN IN VICINITY
Maintenance/ Cleaning	NONE
Use	NONE
Decommissioning / Demolition	NONE

Rev.	Date	Description	By	Chk'd	App'd

Drawing Status	WORK IN PROGRESS- DRAFT	Suitability	S0
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**GREATER CAMBRIDGE PARTNERSHIP**

GREATER CAMBRIDGE PARTNERSHIP

Project Title  
 CAMBRIDGE SOUTH EAST TRANSPORTATION PHASE 2

Drawing Title  
 STAPLEFORD RESIDENTIAL DEVELOPMENT 30MPH VERSION 1 (OPTION 1)

Scale	1:2000	Designed / Drawn	JS	Checked	AH	Approved	AH	Authorised	PG
Original Size	A1	Date	06/04/22	Date	06/04/22	Date	06/04/22	Date	
Drawing Number	Project	Originator	Volume	Project Ref. No.	Revision				
		5210174-ATK-HGN-							P01.1
Location	Type	Role	Number						

Plotted by: HAYE9221 Date: May 12, 2022 - 9:49am

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