

# Stage 1 Road Safety Audit – Designers Response (Newgate Lane/Newgate Lane East, Proposed Single Lane Dualling Priority Junction (JTN OP3)

**REF:** BRS.4989

**DATE:** APRIL 2020

---

1. This designer's response has been prepared by Pegasus Group in response to the Stage 1 Road Safety Audit (RSA1) prepared by Andy Paul, Road Safety and Highway Engineering Consultant and Kevin Seymour, Road Safety Consulting Ltd, to support planning application references: P/19/0460/OA and P/18/1118/OA for up to a total of 190 residential dwellings at land off Newgate Lane, Fareham.
2. The RSA1 assessed the option of a single lane dualling priority junction at the Newgate Lane/Newgate Lane East junction. The following documentation was provided to the auditors ahead of the audit:
  - i. Drawing No. BRS 4989 Option 3 – Swept Path Analysis;
  - ii. Drawing No. BRS 4989 Option 3 – Geometric Design;
  - iii. Drawing No. BRS 4989 Option 3 – Visibility Splays;
  - iv. Transport Assessment; and
  - v. Location Plan.

**Problem 2.1 – Location – Farm accesses onto Gosport Road, to the south of the junction**

3. The RSA1 only identified one problem and recommendation as follows:

Problem
4. Potential collisions between vehicles on Gosport Road and farm vehicles.
5. To the south of the Gosport Road / Newgate Lane junction, there are two gated farm accesses (one onto the southbound carriageway and one onto the northbound

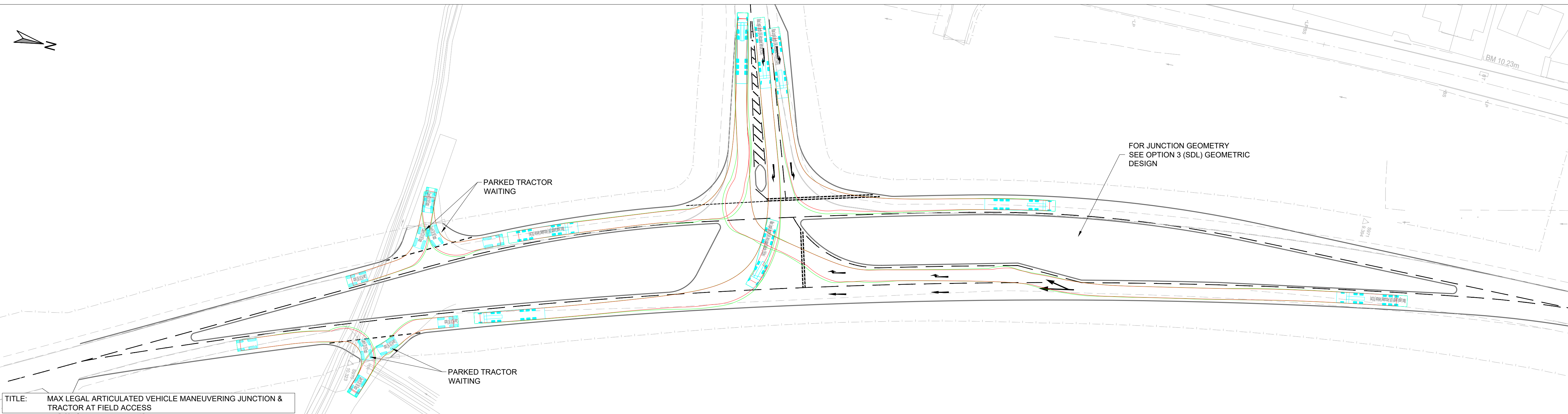
carriageway). It is unclear at this stage if the distance between the carriageway and the gates is sufficient to accommodate the length of farm vehicles that may use the accesses. If the offset of the field gate from the carriageway is insufficient to accommodate a farm vehicle, collisions between vehicles on Gosport Road and the tail-end of a right turning farm vehicle could occur.

#### **Recommendation to Problem 2.1**

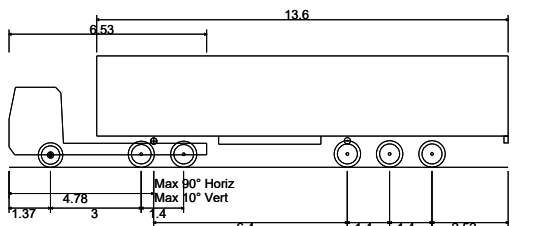
6. The distance between the farm access gates and the Gosport Road carriageway should be sufficient to ensure that the largest farm vehicle that will use them can be accommodated.

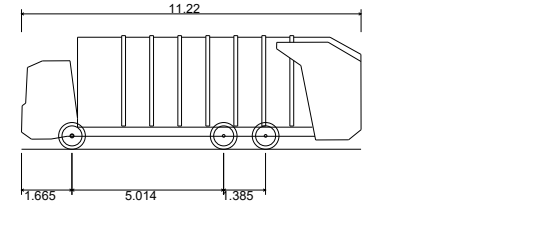
#### **Designers Response to Problem 2.1**


7. The recommendation to this issue is agreed.
8. Swept path analysis at JTN OP3 SPA REVA demonstrates that a 4.8 metre tractor can safely wait between the carriageway and the gate for each of the field accesses. However, in accordance with DMRB CD123 paragraph 4.3 and the subsequent 'NOTE' it is considered that the gate alignment at each of the agricultural accesses can, in principle, be amended where necessary to accommodate the largest vehicle frequently using the accesses (which could be a tractor and trailer).
9. It is considered that the eastern field access falls within the proposed HA2 land boundary, to which Bargate Homes (applicant of P/18/1118/OA) has a stake in and the western field access falls within the land ownership of the farmer who has control of the land parcels proposed for development. It is considered that if ultimately necessary, this can be addressed as part of the detailed design proposals.

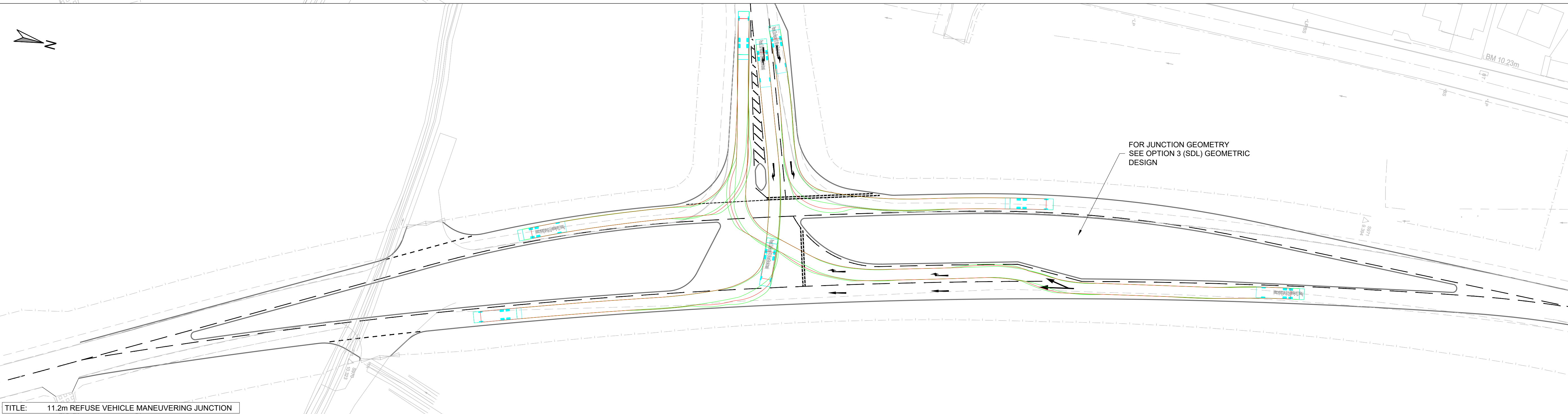


TITLE: MAX LEGAL ARTICULATED VEHICLE MANEUVERING JUNCTION & TRACTOR AT FIELD ACCESS

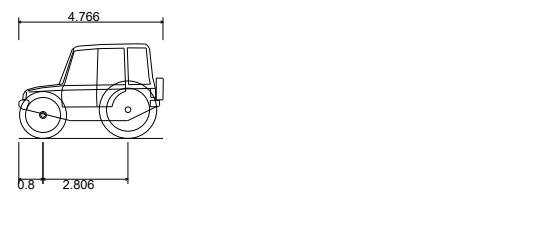
	Max Legal Length (UK) Articulated Vehicle (16.5m)	16.500m
	Overall Length	11.220m
	Overall Width	2.550m
	Overall Body Height	3.881m
	Min Body Ground Clearance	0.411m
	Max Track Width	2.500m
	Lock to lock time	6.00s
	Kerb to Kerb Turning Radius	6.530m

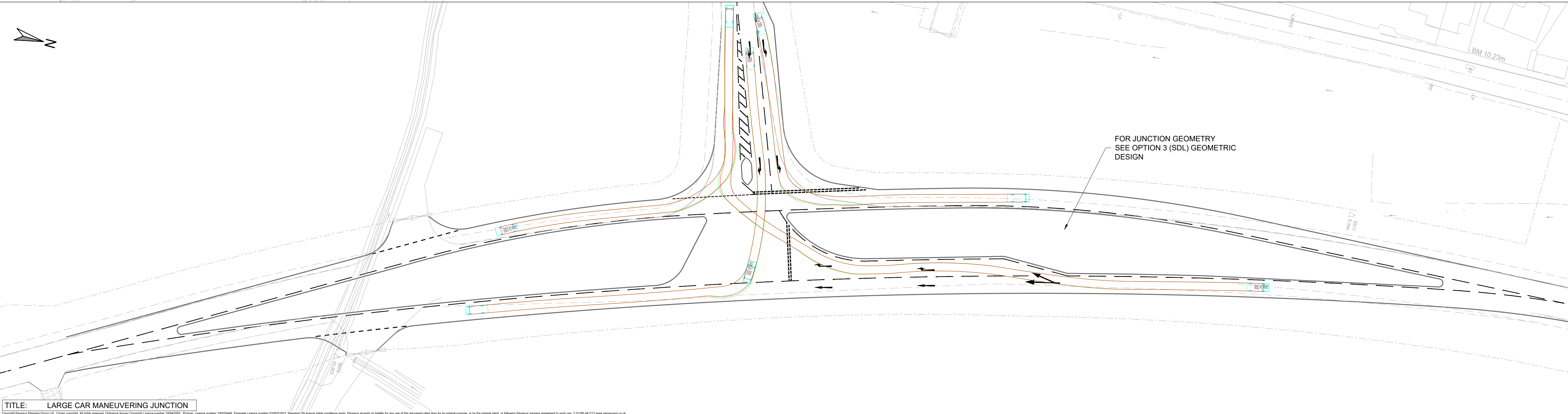
	Phoenix 2 Duo Recycler (P2-15W with Elite 6x4 chassis)	11.220m
	Overall Length	2.530m
	Overall Width	3.766m
	Overall Body Height	0.309m
	Track Width	2.550m
	Lock to lock time	4.00s
	Kerb to Kerb Turning Radius	11.500m

	Large Car (2006)	5.079m
	Overall Length	1.872m
	Overall Width	1.525m
	Overall Body Height	0.310m
	Min Body Ground Clearance	1.831m
	Max Track Width	4.00s
	Lock to lock time	5.900m
	Kerb to Kerb Turning Radius	



TITLE: 11.2m REFUSE VEHICLE MANEUVERING JUNCTION

	Case IH CVX 195 Tractor	4.769m
	Overall Length	2.550m
	Overall Width	3.129m
	Overall Body Height	0.288m
	Min Body Ground Clearance	2.520m
	Max Track Width	6.00s
	Lock to lock time	5.400m
	Kerb to Kerb Turning Radius	



TITLE: LARGE CAR MANEUVERING JUNCTION

REV	DATE	BY	DESCRIPTION	CHK	APP
A	20/04/20	ADS	PARKED TRACTORS ADDED	LB	AJ

First Floor: South Wing  
Equinox North  
Great Park Road  
Almondsbury  
Bristol  
BS32 4QL  
01454 625945  
www.pegasusgroup.co.uk  
Planning | Design | Environment | Economics

**Pegasus Group**

CLIENT:  
FAREHAM LAND LP & BARGATE HOMES LTD

PROJECT:  
LAND TO THE NORTH OF GOSPURT RD  
FAREHAM

TITLE:  
NLSRR/NEWGATE LANE  
JUNCTION PLAN – OPTION 3 (SLD)  
SWEEP PATH ANALYSIS

SCALE @ A1:	1:500	CHECKED:	ADS	APPROVED:	AJ
CAD FILE:	-	DESIGN DRAWN:	ADS	DATE:	08/04/20
PROJECT No:	BRS.4989	DRAWING No:	SPA OPTION 3	REV:	A