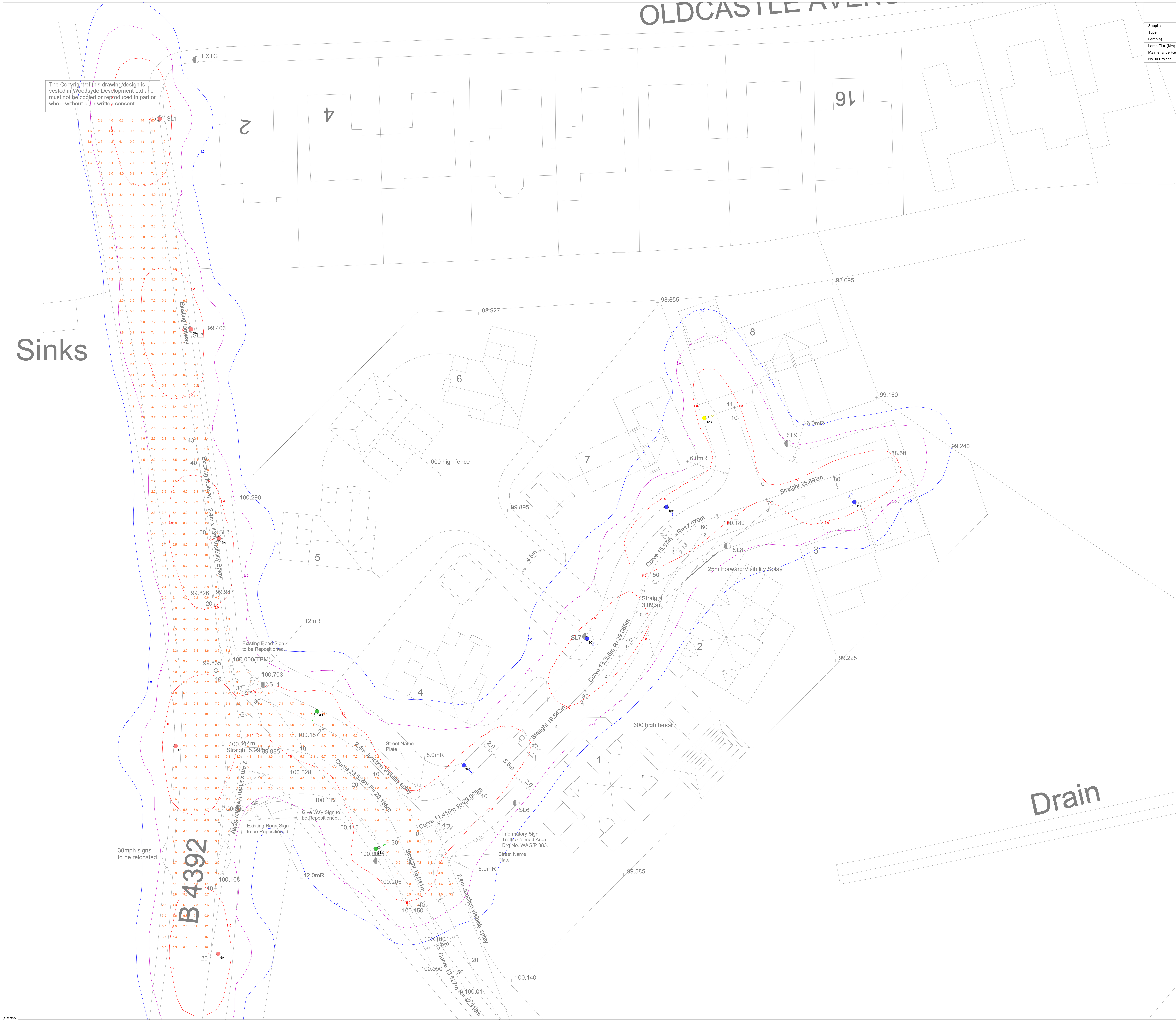

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	Luminaire A	Luminaire B	Luminaire C	Luminaire D
Supplier	TRT Lighting	TRT Lighting	TRT Lighting	TRT Lighting
Type	OPM4_LED_23W_GR5 (Blue)_3000K_FG	OPM4_LED_23W_GA2 (Yellow)_3000K_FG	OPM4_LED_19W_GR5 (Blue)_3000K_FG	OPM4_LED_14W_GR5 (Blue)_3000K_FG
Lamp(s)	42 0023 0000 100	42 0023 0000 100	42 0019 0000 100	42 0014 0000 100
Lamp Flux (klm)	2.68	2.53	2.29	1.66
Maintenance Factor	0.87	0.87	0.87	0.87
No. in Project	5	2	4	1

Woodsyde Developments Limited

Project:
Proposed Residential Development on Land Adjacent to Oldcastle Avenue, Guilsfield.

Client:
Richarl Limited

Drawing Title:
General Arrangements and Road Geometry

Scale: 1:250 @ A1

Date: April 2021

Drawing No:
GD-GA-200: Rev C

The Poppies, Lower Road, Harmer Hill, Shropshire. SY4 3QX.
Tel: 01939 290483 Mob 07527 352084
email: andrew@awgough.co.uk

Rev A: Drawing updated to LHA comments	AG	20.06.202
Rev B: Drawing updated to LHA comments	AG	27.07.202
Rev C: Drawing updated to LHA comments	AG	17.09.202

Notes:
1. The contractor should check all heights, dimensions and sizes on-site before works commence a errors reported to Woodsyde Development Ltd.
2. Figured dimensions shall take preference to scaling, with any errors reported to Woodsyde Deve Ltd.
3.———— Shows extent of footway widening for 25m forward visibility splay.
4. Given the length of access road and the bend at chainage 60 it is suggested that no further traffic should be required.
5. All driveways to be provided with a permeable finish.
6. All existing road signs at junction of B4392 shall be repositioned within the highway verges.
7. Visibility splay of 2.4m x 43m has been shown to the north of the junction, which complies with th as provided in Manual for Streets based on the speed limit being 30mph. In addition visibility splays been shown to the south of 2.4m x 215m, which complies with the guidance as provided in Manual based on the national speed limit of 60mph.

TRT LIGHTING ROAD & TUNNEL SYSTEMS

PROJECT NAME:
Land Adjacent Oldcastle Avenue, Guilsfield

PROJECT No:
S278 Design Check (R0)

SCALE: **1:250**

DATE: **12 July 2023**

CALCULATION:
Horizontal Illuminance (lux)

DESIGNER:
Pete Harris

Lighting Residential Roads - Designed in Accordance with BS5489-1 2020

The main purpose of lighting for subsidiary roads, namely access roads, residential roads and associated pedestrian areas, footpaths and cycle tracks and areas associated with those roads is to enable pedestrians and cyclists to orientate themselves and detect vehicular and other hazards, and to discourage crime against people and property. The lighting on such roads can provide some guidance for motorists, but is unlikely to be sufficient for revealing objects on the road without the use of headlights.

P4 - Eav = 5.00-7.50 Lux, Emin 1.00 Lux

=6.00m in environmental zones E1 or E2 from BS5489 LMF = 0.92
Maintenance factor = LLMF x LMF = 0.95 x 0.92 = 0.87

Dimming to 50% between Midnight and 05.00am (Labelled PN50)

No account is taken for the blocking effect caused by buildings, trees etc. The calculation shown by this drawing assumes that the whole area being considered is in the same plane, i.e. there are no changes in gradient or elevation.

This lighting design proposal is a suggested lighting layout to present how TRT products could be used to meet the design criteria. No design risk assessment has been conducted for the lighting layout and TRT may not have undertaken a site survey. The lighting design has been based entirely on information supplied by others and therefore TRT cannot be held responsible for any risk associated with the implementation of the design. This lighting design proposal should be considered only as guidance and not as a final design for the purposes of Construction Design and Management Regs 2015.

PREPARED BY:

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FILE NAME
C:\Users\Pete.Harris\Desktop\Land Adjacent Oldcastle Avenue, Guilsfield\S278 Land Adjacent Oldcastle Avenue, Guilsfield.rtma

Results Grid 1	
Eav	5.95
Emin	1.17
Emax	20.44
Emin/Emax	0.06
Emin/Eav	0.20