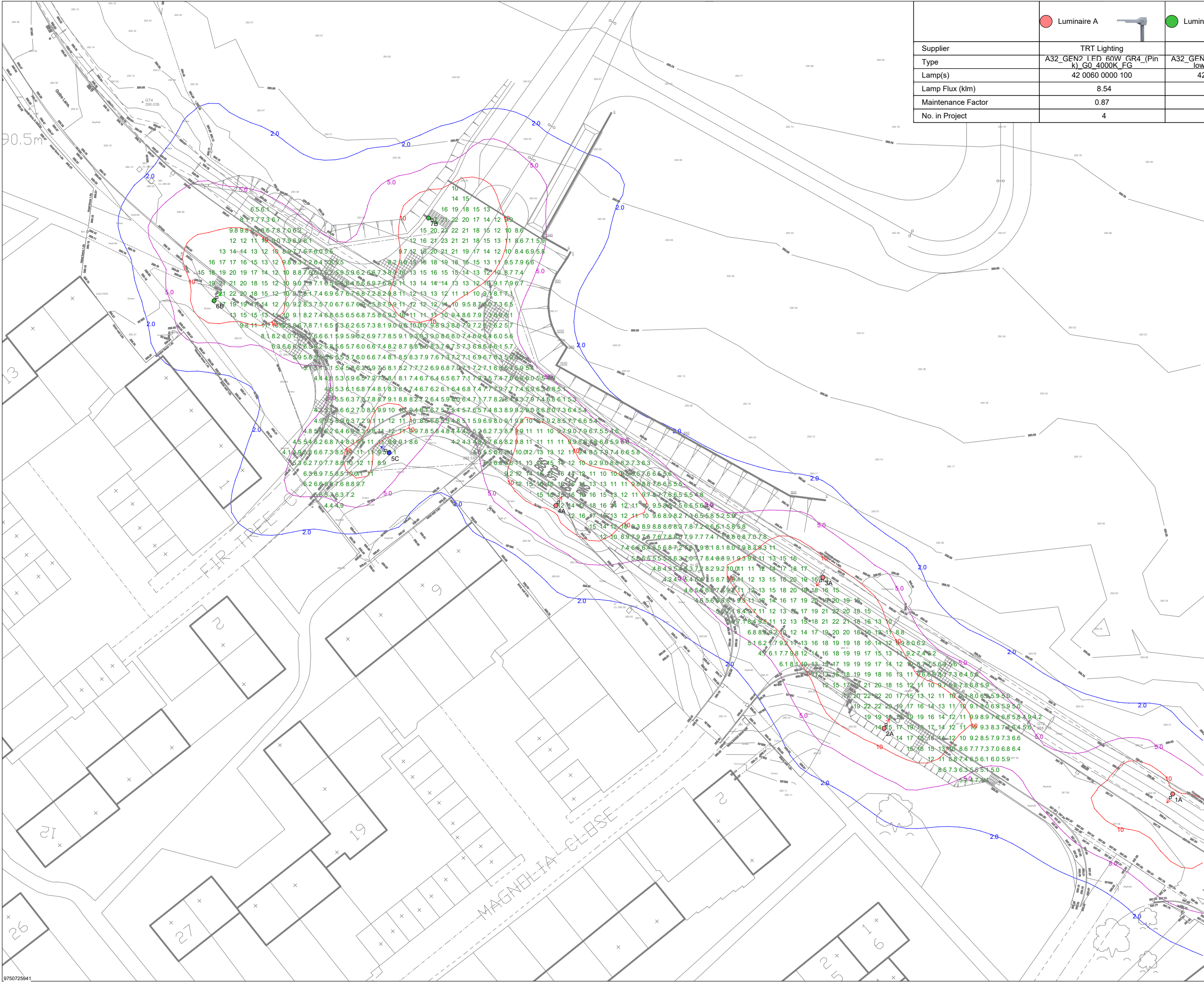




	Luminaire A	Luminaire B	Luminaire C
Supplier	TRT Lighting		
Type	A32_GEN2_LED_60W_GR4_(Pin k)_G0_4000K_FG	A32_GEN2_LED_60W_GA2_(Yel low)_G1_4000K_FG	A32_GEN2_LED_38W_GR4_(Pin k)_G0_4000K_FG
Lamp(s)	42 0060 0000 100	42 0060 0000 100	42 0038 0000 100
Lamp Flux (klm)	8.54	9.02	5.81
Maintenance Factor	0.87	0.87	0.87
No. in Project	4	2	1

PROJECT NAME:

Goetre Lane, Gurnos, Merthyr

PROJECT No:

Design Check (R0)

SCALE:

1:500

DATE:

10 September 2025

CALCULATION:

Horizontal Illuminance (lux)

DESIGNER:

Pete Harris

Lighting of Conflict Areas - Designed in Accordance with BS5489-1 2020

Conflict areas are typically junctions, intersections, roundabouts and pedestrian crossings, where significant streams of motorized traffic intersect with each other or with other road users such as pedestrians and cyclists. At conflict areas, the visual task is generally more difficult than on straight roads, and a higher luminance or illuminance class may be selected at the conflict area.

C4 – Eav = 10 Lux, Uo 0.40

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

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 implementation of the design. This lighting design proposal should be considered only as guidance and not as a final design and for the purposes of Construction Design and Management Regs 2015.

PREPARED BY:

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Results Grid 1

Eav	10.18
Emin	4.10
Emax	23.49
Emin/Emax	0.17
Emin/Eav	0.40