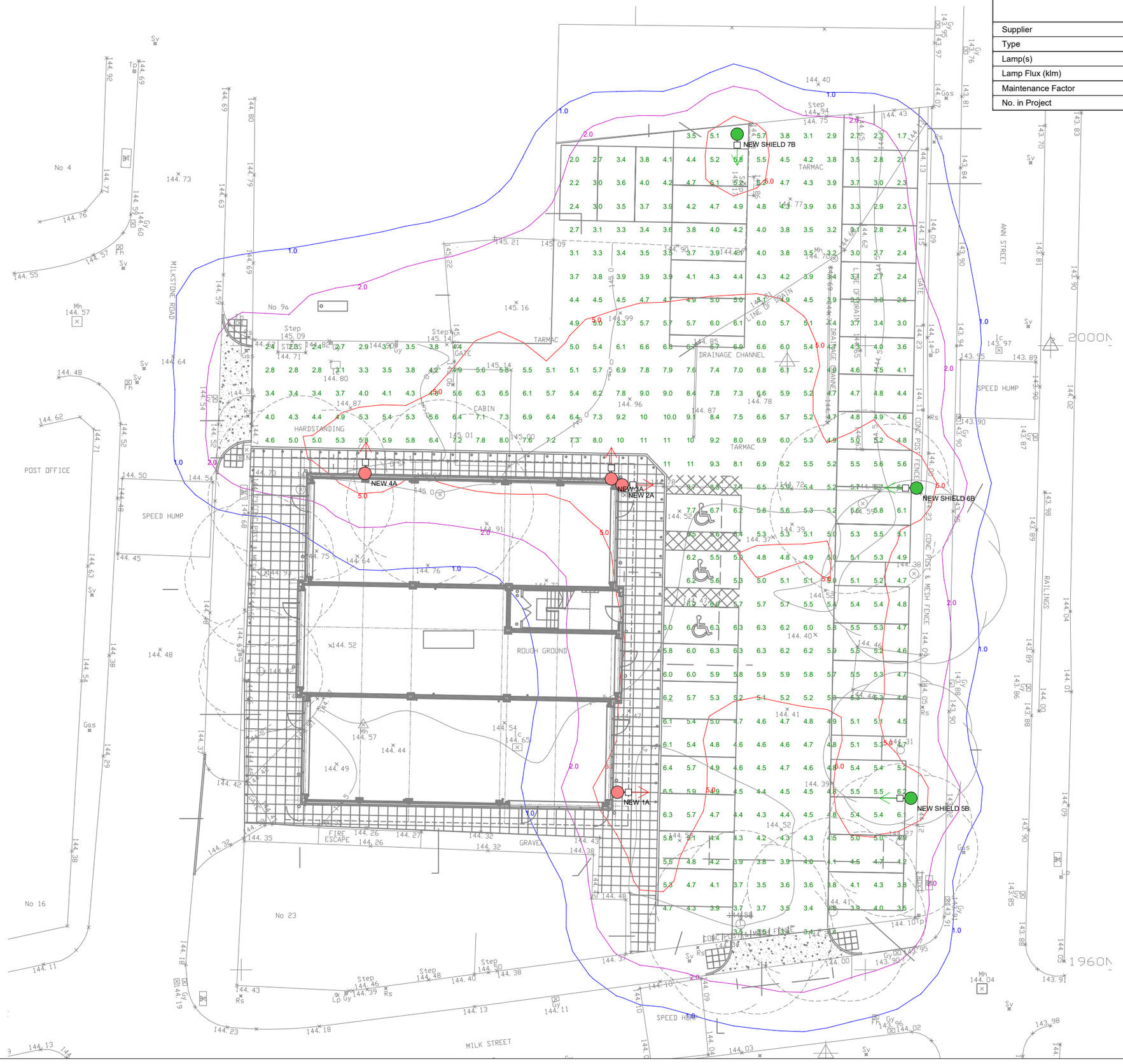

	Luminaire A	Luminaire B
Supplier		
Type	ASM4_LED_14W_CLO_GA2_4000K_EXP	ASM4_LED_14W_CLO_GA2_BS4000K_EXP
Lamp(s)	42 0014 0000 100	42 0014 0000 100
Lamp Flux (klm)	1.66	1.55
Maintenance Factor	0.82	0.82
No. in Project	4	3

TRTLIGHTING
ROAD & TUNNEL SYSTEMS

PROJECT NAME:
Milkstone Road, Rochdale

PROJECT No:
Design Check (R1)

SCALE:
1:250

DATE:
9 May 2022

CALCULATION:
Horizontal Illuminance (lux)

DESIGNER:
Pete Harris

Lighting of Exterior Car Parks - Designed in Accordance with BS5489-1 2020

Exterior car parks are covered under the guidance of British Standards BS EN 12464 and BS 5489: 2020. Exterior car parks have three levels of lighting depending on usage, and range from Low, Medium and High. This lighting design is based on the anticipated vehicle, pedestrian, crime and type of use to determine the lighting category.

Low usage (Light Traffic) – Eav = 5 Lux, Uo 0.25
Where low use would be based on, parking areas of shops, terraced and apartment houses, cycle parks

=6.00m in environmental zones E3 or E4 from BS5489 LMF = 0.84
Maintenance factor = LLMF x LMF x LSF = 1 x 0.84 x 0.98 = 0.82

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 for the purposes of Construction Design and Management Regs 2015.

PREPARED BY:

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Washford Ind Est | Redditch | B98 0FH

Results Grid 1	
Eav	5.05
Emin	1.75
Emax	11.37
Emin/Emax	0.15
Emin/Eav	0.35

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