

Checked

BY Lskelton DATE 28/1/2021

Verified

BY h.murphy DATE 28/1/2021

Based on:  
Architect's Drawings  
Structural Drawings  
Services Drawings  
Other Drawings

Notes  
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL AND ENGINEERING SERVICES DRAWINGS, SPECIFICATIONS, SCHEDULES AND PROJECT SPECIFIC DOCUMENTS.  
2. ALL DIMENSIONS IN mm UNLESS OTHERWISE STATED.  
3. DO NOT SCALE FROM THIS DRAWING.

LIGHTING CONTROL  
4. ALL LUMINAIRES ARE TO BE CONTROLLED VIA PHOTOCELL SENSORS WITH 24HR TIME CLOCK.  
5. THE HOURS OF OPERATION ARE AS FOLLOWS - 0600 TO 2200 HOURS

KING'S ROAD

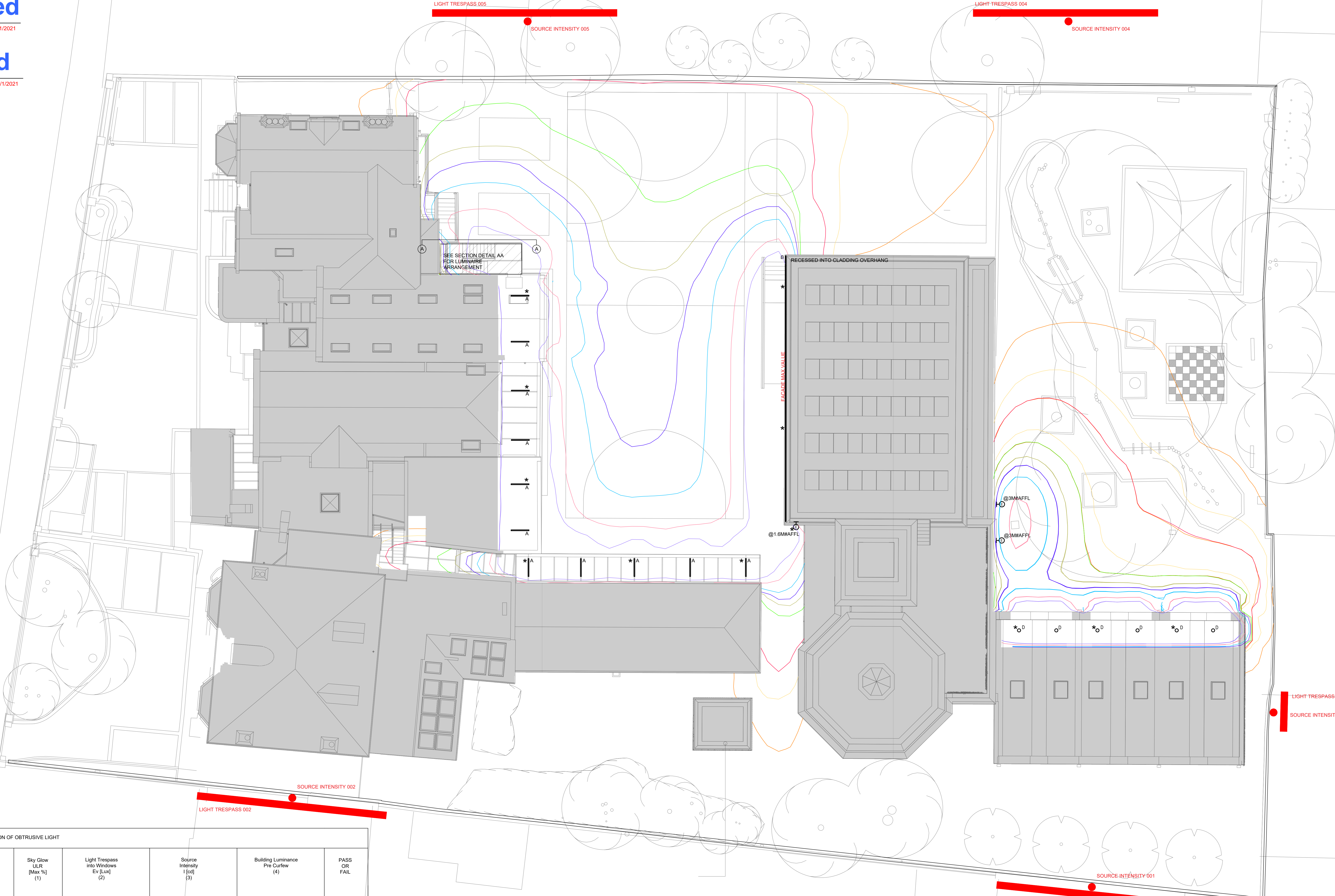
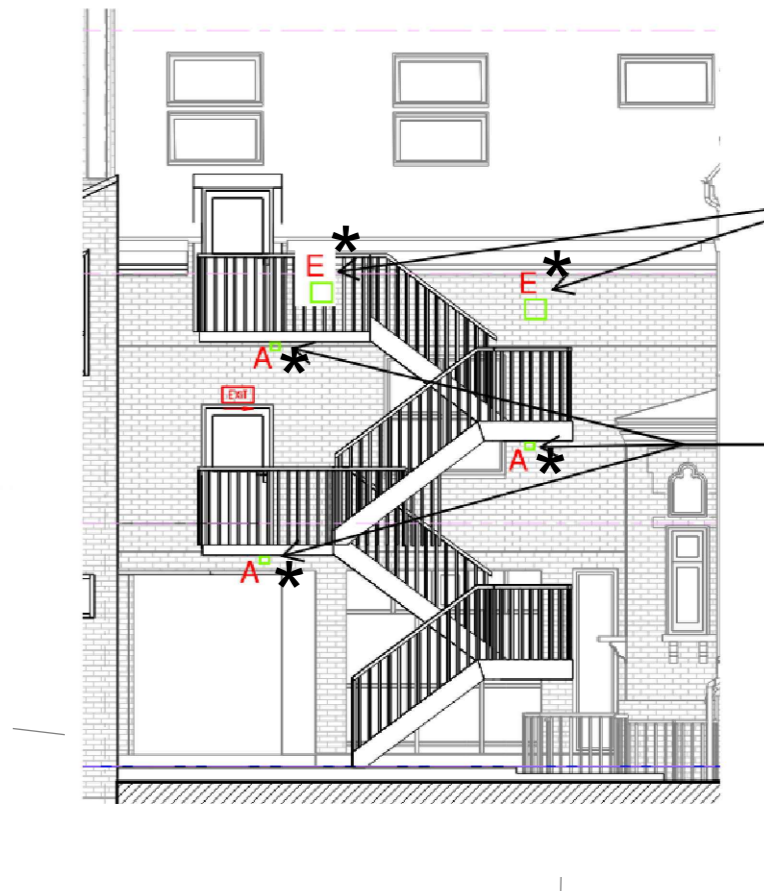
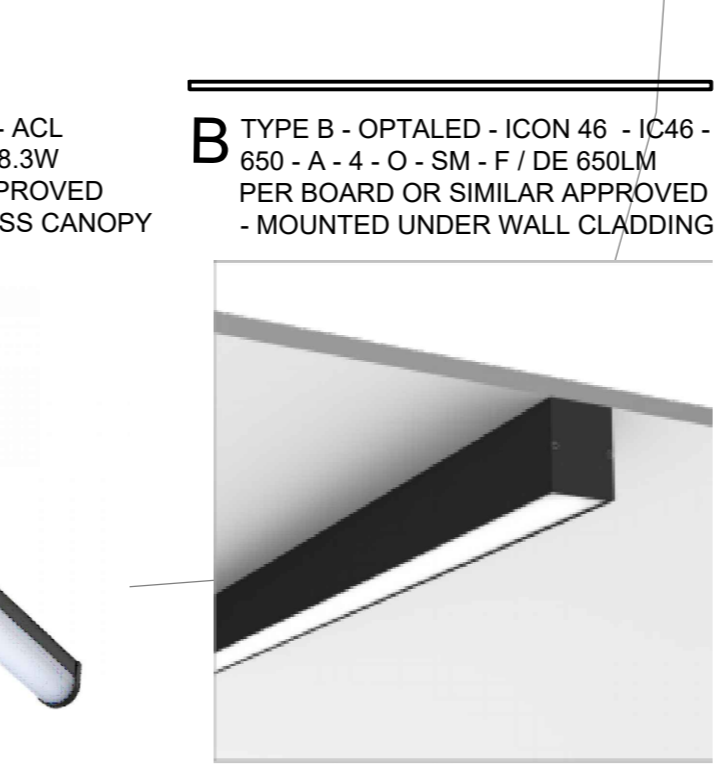


TABLE OF CONFORMITY

| ENVIRONMENTAL ZONE E3 | Sky Glow ULR (Max %) (1) | Light Trespass into Windows Ev (Lux) (2) |              | Source Intensity (fc) (3) |              | Building Luminance Pre Curfew (4) | PASS OR FAIL |
|-----------------------|--------------------------|--|--------------|---------------------------|--------------|-----------------------------------|--------------|
|                       |                          | Pre Curfew                               | After Curfew | Pre Curfew                | After Curfew |                                   |              |
| ENVIRONMENTAL ZONE E3 | 0.5%                     | 10                                       | 2            | 10,000                    | 1,000        | Average 10                        | TARGET       |
| SKY GLOW              | 1%                       |  |              |                           |              |                                   | PASS         |
| LIGHT TRESPASS 1      |                          | 0.03                                     | 0.03         |                           |              |                                   | PASS         |
| LIGHT TRESPASS 2      |                          | 0.02                                     | 0.02         |                           |              |                                   | PASS         |
| LIGHT TRESPASS 3      |                          | 0.08                                     | 0.08         |                           |              |                                   | PASS         |
| LIGHT TRESPASS 4      |                          | 0.33                                     | 0.33         |                           |              |                                   | PASS         |
| LIGHT TRESPASS 5      |                          | 1.46                                     | 1.46         |                           |              |                                   | PASS         |
| SOURCE INTENSITY 1    |                          |  |              | 0.00                      | 0.00         |                                   | PASS         |
| SOURCE INTENSITY 2    |                          |  |              | 0.00                      | 0.00         |                                   | PASS         |
| SOURCE INTENSITY 3    |                          |  |              | 0.00                      | 0.00         |                                   | PASS         |
| SOURCE INTENSITY 4    |                          |  |              | 188                       | 188          |                                   | PASS         |
| SOURCE INTENSITY 5    |                          |  |              | 182                       | 182          |                                   | PASS         |
| FACADE AVERAGE VALUE  |                          |  |              |                           |              | 10                                | PASS         |

**LUX LEVEL ISOLINE PLOT**  
INTRODUCTION  
THE LIGHTING CALCULATION HAS BEEN BASED ON THE FOLLOWING ARCHITECTURAL DRAWING ISSUED BY LUC.  
REFERENCE DRAWING  
11158-LD-PLN-061120 KHS R01  
LIGHTING DESIGN NOTES  
THE EXTERNAL LIGHTING DESIGN HAS BEEN ASSESSED AGAINST ENVIRONMENTAL ZONE E3 WHICH IS DESCRIBED AS MEDIUM DISTRICT BRIGHTNESS AREAS I.E. WELL INHABITED RURAL SETTLEMENTS. THIS INFORMATION IS INDICATED IN TABLE 2 DESIGN GUIDANCE IN THE ILP GUIDANCE NOTES FOR THE REDUCTION OF OBTRUSIVE LIGHT GN01-2020  
LIGHTING STANDARDS  
THE EXTERNAL LIGHTING DESIGN HAS BEEN DESIGNED IN LINE WITH THE FOLLOWING STANDARDS:  
• ILP THE INSTITUTION OF LIGHTING ENGINEERS GUIDANCE NOTES FOR THE REDUCTION OF OBTRUSIVE LIGHT GN01-2020  
• BS EN 12464-2:2014 LIGHTING OF WORKPLACES - OUTDOOR WORKPLACES PART 2  
• BS EN 5489-1:2020 DESIGN OF ROAD LIGHTING PART 1  
• BS EN 13201-2:2015 ROAD LIGHTING - PERFORMANCE REQUIREMENTS  
CONCLUSIONS  
1. THE CALCULATION RESULTS INDICATE THAT THE EXTERNAL LIGHTING SCHEME DOES COMPLY FULLY WITH BOTH THE PRE AND POST CURFEW CRITERIA FOR ENVIRONMENTAL ZONE E3  
2. NO TREES HAVE BEEN INCLUDED IN THE LIGHTING CALCULATIONS  
FURTHER NOTES  
\* DENOTES EMERGENCY VERSION/SECTION

- ISOLINES
- 0.2 lx
  - 0.5 lx
  - 1.0 lx
  - 5.0 lx
  - 10.0 lx
  - 15.0 lx
  - 25.0 lx
  - 50.0 lx
  - 75.0 lx



|              |                       |             |    |      |      |
|--------------|-----------------------|-------------|----|------|------|
| P03 28/01/21 | FOR INFORMATION       | MT          | LS | HM   |      |
| P02 18/12/20 | FOR INFORMATION       | MT          | LS | HM   |      |
| P01 15/12/20 | DRAFT FOR INFORMATION | MT          | LS | HM   |      |
| Issue        | Date                  | Description | By | Chkd | Verd |

Project  
King's House School  
Client  
King's House School  
Architect  
David Miller Architects

Title  
LIGHTING LAYOUT ISOLINE PLOT EXTERNAL  
Drawing No.  
BSXX(63)4002  
Drawing Status  
S2 - ISSUED FOR INFORMATION  
Job No.  
1018236  
Scale  
1:100

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