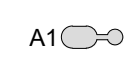
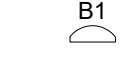




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- External Lighting Notes**
- This layout shall be read in conjunction with all other services, architectural and structural information, project specifications and contract documentation.
  - The electrical installation shall be installed in accordance with the 18th Edition of IET Wiring Regulations BS 7671 (Requirements for Electrical Installations) including all amendments.
  - The Electrical Contractor shall be responsible for the design, supply, coordination, installation, testing, commissioning and setting to work of a complete external lighting system.
  - All in ground services to be installed at depths to meet NUG guidelines.
  - Lighting shall be provided in accordance with -
    - CIBSE Lighting Guide 6 The Outdoor Environment.
    - BS 12464-2 Outdoor Work Places.
    - BS 5489 Design of Road Lighting.
  - Lighting shall achieve an average of 10 lux at ground level on road ways and 5 lux on walk ways.
  - Lighting shall be provided and located in line with the requirements of the Institution of Lighting Engineers guidance notes on the reduction of obtrusive light.
  - Final setting out and site coordination to be completed by the Main Contractor or their nominated subcontractor.
  - Final locations of lighting columns shall be coordinated with proposed below ground services by the Main Contractor or their nominated subcontractor.
  - External lighting control equipment shall incorporate manual override switch, time switch, photocell and contactors to restrict energisation of external lighting when ambient lighting levels are sufficient.
  - Draw pit chambers and below ground ducts to be provided and installed by the Main Contractor.
  - Draw pit chambers shall be provided where required and at all changes of direction.
  - Carriage way grade draw pit chambers shall be provided where required.
  - All cable ducts shall be provided with draw ropes.
  - Power cabling to external equipment such as luminaires, CCTV cameras and powered gates shall be carried out in suitably sized multi core XLPE/SW/LSF cabling.

- External Lighting Legend**
- A1  Single top type LED luminaire on 6m column.  
34W 457lm.  
As Whitecroft Lighting Sirocco MIDI.
- B1  Bulkhead LED luminaire wall mounted at 3.5m.  
9W 1119lm.  
As Whitecroft Lighting Spectre WX.

|                                            |    |      |             |  |
|--------------------------------------------|----|------|-------------|--|
| P02 NT 17.05.23 Architects Layout Updated. |    |      |             |  |
| P01 NT 10.05.23 Stage 3 Issue.             |    |      |             |  |
| Rev                                        | By | Date | Description |  |
|                                            |    |      |             |  |



**TACE**  
THE ASSOCIATED CONSULTING ENGINEERS  
Principal Engineer  
Sally Green  
Consultant Engineer  
Sally Green  
1. Civil and Structural  
2. Mechanical  
3. Electrical  
4. Environmental  
5. Sustainability  
6. Health and Safety

Client:  
**Tilbury Douglas**

Project:  
**Sandilands Primary School**

Drawing Title:  
**Proposed External Lighting Layout**

|          |        |              |                            |              |             |      |          |              |                                |
|----------|--------|--------------|----------------------------|--------------|-------------|------|----------|--------------|--------------------------------|
| Drawn    | SM     | Date         | 10.05.23                   | Check        | SM          | Date | 10.05.23 | Project      | SRP1034-TAC-ZZ-XX-D-E-9006 P02 |
| Checked  | NT     | Date         | 10.05.23                   | External Ref | -           |      |          |              |                                |
| Approved | NT     | Date         | 10.05.23                   | Scale        | 1:200 at A0 |      |          | Issue Status | --                             |
| Job      | PA1681 | Drawing Name | SRP1034-TAC-ZZ-XX-D-E-9006 | Rev          |             |      |          | Rev          | P02                            |