

09/01843

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Reference No: MER-OU9-000059	Burghfield Intake Substation External Lighting Assessment	Issue No: Issue 01
		Issue Date: 09/09/2009

WEST BERKSHIRE DISTRICT
COUNCIL
14 SEP 2009
PLANNING AND TRADING
STANDARDS



**BURGHFIELD INTAKE SUBSTATION
EXTERNAL LIGHTING ASSESSMENT**

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Document Approval

	Name	Title	Signature	Date
Originator	D. Miller	Engineering Manager	<i>David Miller</i>	09/09/2009

Document Issue Record

Issue	Description Of Amendment	Date	Originator	Checked	Approved	Authorised
Issue 1	For Information	27/8/09	DM	-	-	-

Previous issues of this document are to be destroyed or marked **Superseded**

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Lighting Assessment

1 Introduction

A new intake substation shall be constructed at the AWE Burghfield site in close proximity to the Pingewood Gate.

This assessment provides an indication of the lighting levels that are to be expected at the perimeter of and adjacent to the substation building.

2 Analysis & Results

The analysis work was undertaken using lighting software package DIALux version 4.7.0.0.

The lighting scheme provides a uniform lighting level (lux) around the building perimeter footpath and to minimise the light spill away from the building.

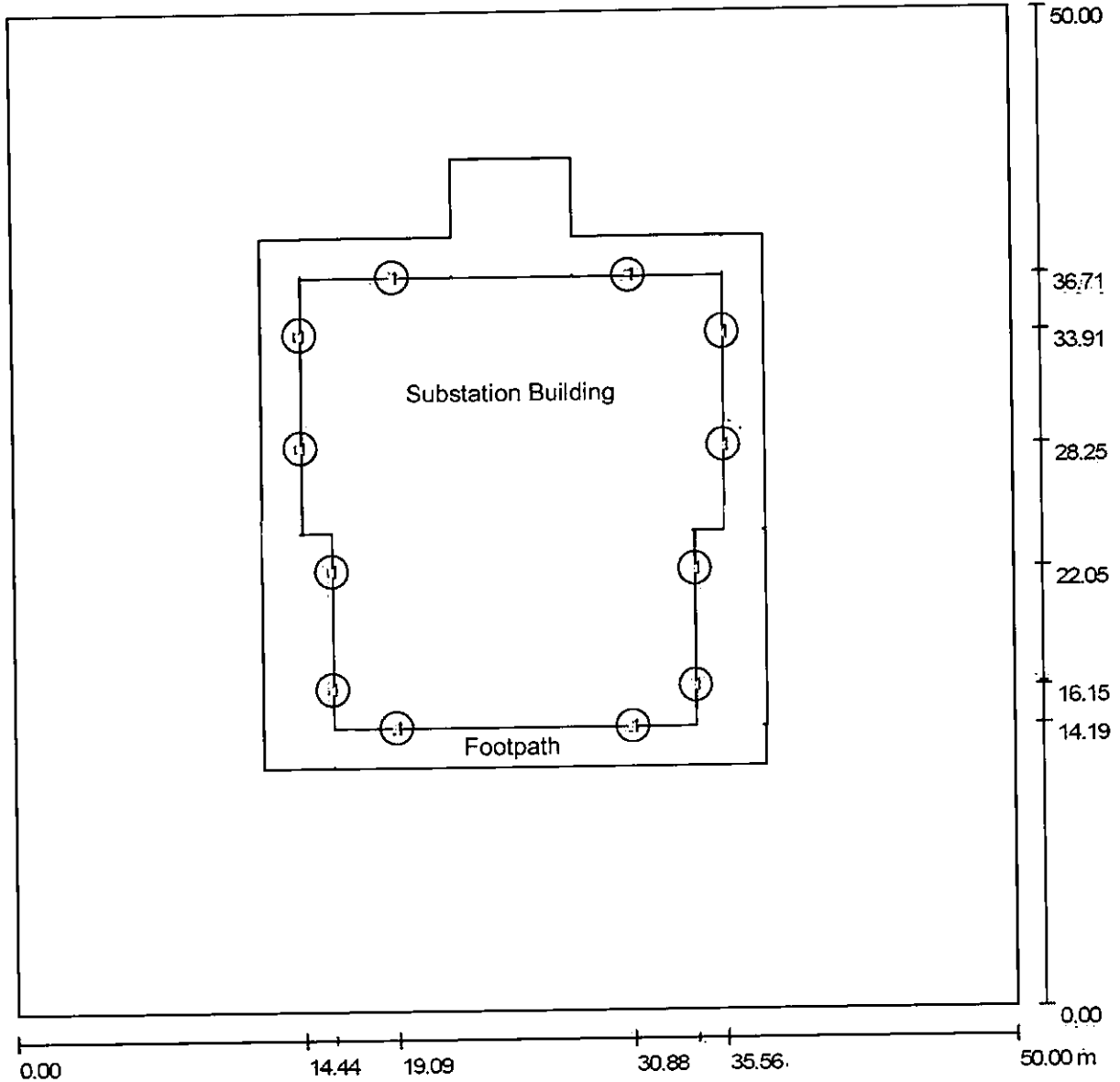
Appendix A identifies the location of the lighting fixtures which are fixed to the exterior of the substation building.

Appendix B gives details of the lighting contours (lux levels) adjacent to the substation building. As can be seen from this drawing, the lighting levels at the footpath adjacent to the building are 20-25 lux which provides sufficient lighting levels for personnel. The level of lighting decays rapidly away from the building to 5 lux at approximately 5 meters from the building with zero lux less than 10 meters from the building.

Appendix C provides a visual representation of the lighting within the context of the building and the surrounding area.

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APPENDIX A - LUMINARIES LAYOUT

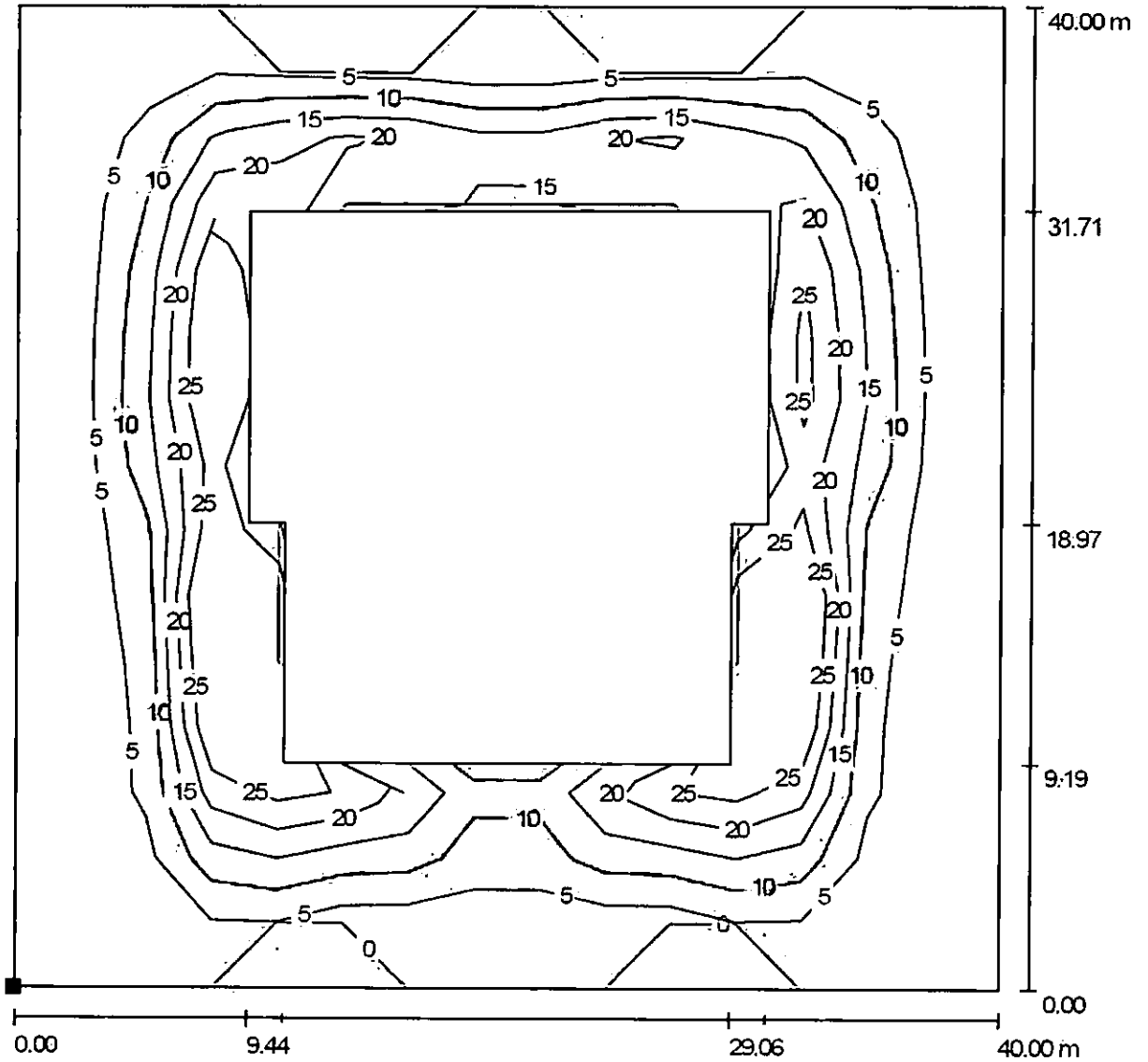


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APPENDIX B - LIGHTING CONTOUR PLAN

All values shown are in Lux



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APPENDIX C - EXTERNAL LIGHTING SCENE

