

Ref:	NR/L2/SIG/30004
Issue:	2
Date:	05 June 2010
Compliance date:	05 June 2010



Level 2

CAD Cell Library

Endorsement and Authorisation

Endorsed by:

 PP

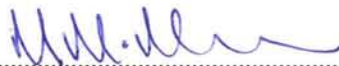
Tim Franks, Working Group Chair

Authorised by:



Steve Hailes, Steering Group Chair

Accepted for issue by:



Mick McManus, National Standards Manager

This document is the property of Network Rail. It shall not be reproduced in whole or part nor disclosed to a third party without the written permission of Network Rail.

© Copyright 2010 Network Rail.

Uncontrolled copy once printed from its electronic source.

Published and Issued by Network Rail, Kings Place, 90 York Way, London. N1 9AG.

Ref:	NR/L2/SIG/30004
Issue:	2
Date:	05 June 2010
Compliance date:	05 June 2010

Issue record

Issue	Date	Comments
1	Dec 2007	1st issue
2	June 2010	2nd issue

Compliance

This Network Rail standard is mandatory and shall be complied with by Network Rail and its contractors if applicable from 05 June 2010

When this standard is implemented, it is permissible for all projects that have formally completed GRIP Stage 4 to continue to comply with the Issue of any relevant Network Rail Standards current when GRIP Stage 4 was reached and not to comply with requirements contained herein, unless the designated Standard Owner has stipulated otherwise in the accompanying Briefing Note.

Disclaimer

In issuing this document for its stated purpose, Network Rail makes no warranties, express or implied, that compliance with all or any documents it issues is sufficient on its own to ensure safe systems of work or operation. Users are reminded of their own duties under health and safety legislation.

Supply

Copies of documents are available electronically, within Network Rail's organisation. Hard copies of this document may be available to Network Rail people on request to the relevant controlled publication distributor. Other organisations may obtain copies of this document from IHS. Tel: 01344 328039.

Ref:	NR/L2/SIG/30004
Issue:	2
Date:	05 June 2010
Compliance date:	05 June 2010

Contents

1 Purpose 4

2 Scope 4

3 Definitions 4

4 The Cell Libraries 5

5 Library Symbols Structure 6

6 CAD Configuration 7

7 Maintenance of the CAD Cell Libraries 8

8 CAD Cell Dictionary Page Definition 9

Appendix A - CAD Cell Change / Additonal Request Form 11

.....

Ref:	NR/L2/SIG/30004
Issue:	2
Date:	05 June 2010
Compliance date:	05 June 2010

1 Purpose

This document, in support of Company Standard NR/SP/SIG/11201, Signalling Design: Production, defines the symbols, nomenclature and presentation for use on all CAD signalling circuit diagrams to ensure that the correct information is always conveyed without ambiguity.

This document has been developed to support the Circuit Symbol Components (CSC) and Circuit Symbol Equipment (CSE) signalling CAD Cell Libraries. It specifies the characteristics of all cells in the CSC and CSE libraries and will be used as an aid to designers. It also specifies the process for requesting additions or changes to the library. It is expected that this document will expand and evolve as additional cells are created.

The Cell Attributes specified in this document provide information regarding the generic properties of the cells, MicroStation settings and constraints that are to be used when drawing a cell.

The Cell Attributes also identifies the structure of the Signalling CSC CAD Cell Library, requirements and process for the revision of existing cells within the library and the introduction of new cells into the library.

The CSC CAD Cell Dictionary pages specified in this document show each individual cell within the CSC library.

Issue of the CSC CAD Cell Library is in electronic form and will comprise of the Cell Library (.cel), pdf versions of the Cell Index and Cell Dictionary in addition to this document.

2 Scope

The CAD cells specified in this document will be used in the production of all new records for Network Rail infrastructure.

3 Definitions

MicroStation - Computer Aided Design software package produced by Bentley.

GWire - Graphical Wiring - Software application as an add-on to Bentley MicroStation for electrical design purposes.

CAD - Computer Aided Design.

Cell - A predefined CAD drawing which can be used multiple times.

Palette - A collection of thumbnails shown on a floatable tool bar.

NRG - Network Records Group

Cell Library - A collection of cells grouped together and saved in a single file.

Cell Dictionary - Collections of cells represented individually on a page defining all the properties of the cell.