

VOLUME 0

COVERING PAGES

All rights reserved. No part of this document may be reproduced in any form or by any means without the prior written permission of FAC Project Services.

Covering Pages

Prepared by: E Hii
 Approved by: G Mitchell

Authorisation: Date:.....

Reason and Nature of Change: Issue 6.0
 Volume 0 - Some amendments
 Volume 1 - Some amendments

DISTRIBUTION OF CONTROLLED COPIES

CONTROL STATUS

CONTROLLED COPY NO:.....

ISSUED TO:.....

DATE:.....

<u>COPY NO.</u>	<u>PROJECT</u>	<u>NAME</u>	<u>POSITION/COMPANY</u>	<u>VOLUMES</u>
1.	SYSTEM MGT.	E HII	FAC SYDNEY	VOL I - VOL IV
2.	MAINTENANCE OF SIT LEASE MASTER & INTERNAL DETAILS	F PARKER	LAND INFORMATION	VOL I , VOL IV
3.	PROJECT SERVICES DRAFTING		CADD USERS	VOL I - VOL IV
4.	----- THIS COPY LOST BY AUSLIG -----			
5.	VARIOUS PROJECTS	ROY NG	AIRPLAN	VOL I,VOL II
6.	NEW SOUTHERN RAILWAY	P ASHTON	TRANSFIELD BOUYGUES	VOL I, II, IV
7.	QANTAS DOMESTIC APRONS & TAXIWAYS	R PEYTON	FAC FOR CONTRACT LIBRARY	VOL I, II, III
8.	MAGS 2	B TAAFFE	DNT-EUROPHANE	VOL I, II, III
9.	QANTAS DOMESTIC APRONS & TAXIWAYS	P WALTON	ABI GROUP	VOL I, II, III
10.	SITOFs .	G STUART	FAC SYDNEY	VOL I - VOL IV
11.	AIRSIDE PERIMETER ROAD WIDENING	B WHITE	SMEC	VOL I, VOL II
12.	MAINTENANCE OF CIVIL DATA BASE	J WHITLEY	LAND INFORMATION	VOL I - VOL IV

Covering Pages

<u>COPY NO.</u>	<u>PROJECT</u>	<u>NAME</u>	<u>POSITION/COMPANY</u>	<u>VOLUMES</u>
13.	ELEVATED ROAD	M MULLENS	LINKE & LINKE	VOL I - VOL II
14.	ANSETT SEAMLESS TRANSFER		ST HILLIERS	VOL I, VOL IV
15.	VARIOUS SURVEY PROJECTS	R LEMON	LAND INFORMATION	VOL I - VOL IV
16. - VOL IV	TAXIWAY ENHANCEMENTS	B COX	CONNELL WAGNER	VOL I
17.	ADDITIONAL LATERALS	L ENGER	A P MORLING	VOL I, VOL IV
18.	TENDERERS LIBRARY SHOALHAVEN ROOM LEVEL 10	K HENDY	COMMERCIAL DEVELOPMENT	VOL I - VOL IV
19.	ADDITIONAL LATERALS	R VAN DYK	4C TECHNOLOGY	VOL I, VOL IV
20.	ELEVATED ROADWAY	LEK	FAC SYDNEY	VOL I - VOL IV
21.	SITEFS	H KASAM	CIVIL & CIVIC	VOL I - VOL IV
22.	DOMESTIC TERMINAL ELEVATED ROADWAY	J ILOTT	TRANSFIELD CONSTRUCTIONS	VOL I - VOL IV

Covering Pages

AMENDMENT CHECK-LIST NO: 1/97

FOR JULY 1997

VOLUME 0 (pp 4 - 5)	replace with issue 30.07.97
VOLUME 1 (pp 5)	replace with issue 30.07.97
VOLUME 2 (pp 1 - 16)	no change.
VOLUME 3 (pp 1 - 7)	no change.
VOLUME 4 (pp 1- 26)	no change.
Appendix 1 (pp 3)	no change.
Appendix 2 (pp 1 - 4)	no change.

**PLEASE DESTROY ALL COPIES OF VOLUMES 0 & 1 ISSUE 5.0 (12.07.97), IF YOU
HAVE ANY IN YOUR POSSESSION.**

Covering Pages

AMENDMENT RECORD

AMENDMENT LIST NO.	DATE OF AMENDMENT	SECTIONS AFFECTED
1/97	JULY 1997	<u>VOL 1 - Brief for Surveyors</u> 1.8.2 – Global Origin

Covering Pages

AMENDMENT RECORD

AMENDMENT LIST NO.	DATE OF AMENDMENT	SECTIONS AFFECTED
1/96	JULY 1996	<u>VOL 1 - Brief for Surveyors</u> - Title changed from General to Brief for Surveyors - Definition page added - Section on aerial photography removed 1.2 CADD software - minor amendments 1.8.3 Working units 1.9 - 6.0 All new Appendix 1 - level map - add <u>VOL 2 - External Survey and Services</u> - All sections revised. - The following sections have been removed: 2.3.2 Cadastral 2.3.3 Grids 2.3.5 Marking 2.3.7 Obstacle Limitation Surfaces 2.3.8 Parking Restrictions 2.3.12 Traverse 2.4.1 Borders 2.4.2 Noise <u>VOL 4 - Building Services</u> 4.2.2 lv 1 4.2.3 lv 46, 49, 50, 51, 59, 61 4.3.3 Baggage Handling System - new

Covering Pages

AMENDMENT RECORD

AMENDMENT LIST NO.	DATE OF AMENDMENT	SECTIONS AFFECTED
2/94	NOVEMBER 94	Vol 4 has been restructured with headers & footers to meet QA guidelines. <u>VOL 4 - Building Services</u> 4.1.1 Filenaming for architectural plans 4.2.2 lv 1 - 63 4.2.3 New 4.2.4 lv 1 - 63 4.2.5 New 4.2.6 lv 1 - 63

Covering Pages

AMENDMENT RECORD

AMENDMENT LIST NO.	DATE OF AMENDMENT	SECTIONS AFFECTED
1/94	OCTOBER 94	All sections. The CADD manual has been restructured with headers & footers to meet QA guidelines. <u>VOL 1 - General</u> 1.9.2 Global origin 1.9.10 Survey Data <u>VOL 2 - External Survey and Services</u> 2.3.1 lv 45, 47, 48, 53 2.3.5 lv 5, 6, 7, 37, 45 2.3.6 lv 35 - 39 2.3.7 New 2.3.7.1 New 2.3.7.2 New 2.3.7.3 New 2.3.7.4 New 2.3.10 lv 50 - 53 2.4.1 Numbering changed lv 50 2.4.2 New

Covering Pages

AMENDMENT LIST NO.	DATE OF AMENDMENT	SECTIONS AFFECTED
1/93	AUGUST 1993	<p>All sections. The CADD manual is restructured into Volumes now.</p> <p>Vol 1 - General</p> <p>Vol 2 - External Survey and Services</p> <p>Vol 3 - Airport Lighting</p> <p>Vol 4 - Building Services</p> <p><u>Vol 1 - General</u></p> <p>1.8.1 Cell Libraries</p> <p>1.8.2 Pattern Libraries</p> <p>1.9.1 Microstation Design Files</p> <p><u>Vol 2 - External Survey and Services</u></p> <p>2.2.2 lv 6, 11</p> <p>2.2.3 lv 10</p> <p>2.2.4 lv 1, 5</p> <p>2.2.6 lv 19</p> <p>2.3.3 lv, 1-3, 10-12, 30-32, 35, 40, 55, 56, 60 Notes</p> <p>2.3.4 lv 31-36 deleted</p> <p>2.3.5 lv 4, 9-10, 22, 36, 60</p> <p>2.3.6 lv 17</p> <p>2.3.8 New</p> <p>2.3.9 lv 14 - deleted lv 19, 20, 41-47, 60, Notes</p> <p>2.3.10 lv 2, 3, 7, 12, 14, 15 lv 50, 51 - deleted</p> <p><u>Vol 3 - Airport Lighting</u></p> <p>3.1 New</p> <p><u>Vol 4 - Building Services</u></p> <p>4.1.1 New</p> <p>4.1.2 New</p> <p>4.1.3 New</p> <p>4.2.1 New</p> <p>4.2.2 Major Amendments</p> <p>4.2.3 New</p> <p>4.2.4 New</p> <p>4.4.1 New</p> <p>4.4.2 New</p>

Covering Pages

AMENDMENT LIST NO.	DATE OF AMENDMENT	SECTIONS AFFECTED
1/92	SEPTEMBER 92	Contents, Section 1, Section 2 2.1.1 - 1v 29, Notes 2.1.2 - 1v 34, Notes 2.1.3 - 1v 47-50, Notes 2.1.4 - 1v 7-26,30, Notes 2.1.5 - 1v 24, Notes 2.1.6 - 1v 11,20,41, Notes 2.1.7 - 1v 8,14,29,40,45, Notes 2.2.1 - 1v 27,34,45,54-59 2.2.3 - 1v 4-51 2.2.4 - 1v 44-48,50,51,55 2.2.6 - 1v 30-32,38,Notes 2.2.7 - 1v 22,29-32,54 2.2.8 - 1v 25,43,50-53 2.2.9 - 1v 10,11,13 2.2.10 - 1v 10, 15-19,40-44 2.2.11 - 1v 3,4,7,11,13,14, 27,29,31,35,40,41,63 2.4.1 - 1v 1-63,Notes 2.4.2 - 1v 1-63 2.4.3 - 1v 1-63, Notes Section 4

NOTICES

NOTE TO CONSULTANTS ON USE OF CADD MANUAL

All consultants issued with the CADD Manual will be on the distribution list. All amendments to the CADD Manual will be issued to registered holders only.

All versions of the CADD Manual are to be returned to the Corporation at the end of a project.

ACKNOWLEDGEMENTS

This CADD manual has been compiled with input from the following persons:-

R. Bateman
P. Bleasdale
M. Calokerinos
A. Conte
S. Jones
K. Pope
J Skuja
I. Stewart
J. Shephard
T. Sheedy
G. Stevenson
B. Taylor
B. Warren
J. Whitley

TABLE OF CONTENTS	PAGE
VOLUME 1 - BRIEF FOR SURVEYORS	
1.0 <u>DIGITAL DATA SPECIFICS</u>	
1.1 CADD Hardware	3
1.2 CADD Software	3
1.3 Acceptable File Formats	3
1.4 File Delivery Media	3
1.5 Database Information	3
1.6 Documentation	3
1.7 Standard Libraries	4
1.7.1 Cell Libraries	4
1.7.2 Pattern Libraries	4
1.7.3 Font Library	4
1.8 Microstation Design Files	
1.8.1 File Structure	4
1.8.2 Global Origin	5
1.8.3 Working Units	5
1.8.4 Level Structure	5
1.9 Exactly Reproducible	6
1.10 Use of MicroStation Reference Files	6
1.11 Re-used as Standard	6
1.12 Survey Data	7
1.13 Data Integrity	7
1.14 Categories of Digital Data	7
2.0 <u>DETAIL FIELD SURVEY</u>	
2.1 Unit of Measurement	7
2.2 Accuracy of As-Installed Surveys	8

Covering Pages

2.3	Survey Control Network	8
2.4	As-installed Surveys	
2.4.1	Services and Utilities	9
2.4.2	Surface and Above Ground features	9
2.4.3	Buildings	10
2.4.4	Electrical	10
3.0	<u>PRESENTATION OF DIGITAL DATA</u>	
3.1	Presentation of As-installed Survey Data	11
3.2	Presentation of Architectural As-installed Drawings	11
3.3	Drawing Sign Off	
4.0	<u>BOMA SURVEY</u>	11
5.0	<u>DRAWING STANDARDS</u>	
5.1	Relevant Codes and Standards	12
5.2	Drawing Sheets	12
5.3	Drawing Scales	
5.3.1	Preferred Scales	12
5.3.2	Specific Scales	12
5.4	Layout	13
5.5	Text	13
5.6	Line Styles	13
5.7	Section Marks and Titles	13
5.8	Abbreviations	14
6.0	<u>SUBMISSION OF DRAWINGS AND DIGITAL DATA</u>	14
Appendix 1	General Symbols Level Map - Blank Form	

TABLE OF CONTENTS	PAGE
VOLUME 2 - EXTERNAL SURVEY AND SERVICES	
2.1 Filenaming	2
2.2 Level Specifications - External Services	
2.2.1 Air, Gas, Steam	3
2.2.2 Drainage	4
2.2.3 Electrical/Communications	5
2.2.4 Fuel	6
2.2.5 Sewerage	7
2.2.6 Telecom	8
2.2.7 Water	9
2.3 Level Specification - External Survey	
2.3.1 Airfield	10
2.3.2 Leases	12
2.3.3 Navigation	13
2.3.4 Roads	14
2.3.5 Structures	15
2.3.6 Topography	16
Appendix 2 Symbols for External Survey and Services	
VOLUME 3 - AIRPORT LIGHTING	
3.1 Filenaming	2
3.2 Level Specifications	
3.2.1 Cabling	3
3.2.2 Light Position and Orientation	4
3.2.3 Airport Lighting (True Position)	5

TABLE OF CONTENTS **PAGE**

VOLUME 4 - BUILDING SERVICES

4.1	Filenamings	
	Architectural	2
	Mechanical	4
	Electrical	4
4.2	Level Specifications - Architectural	
	4.2.1 Grid	5
	4.2.2 Floor Plans	6
	4.2.3 Floor Plans - Text	8
	4.2.4 Leases/Lease Master	9
	4.2.5 Leases/Lease Master - Text	10
	4.2.6 Sections	11
4.3	Level Specifications - Mechanical	
	4.3.1 Airconditioning	13
	4.3.2 Cold Water	15
	4.3.3 Baggage handling system	17
4.4	Level Specifications - Electrical	
	4.4.1 Electrical Installation	18
	4.4.2 Fire Alarm and Detector Locations	19
4.5	Level Specifications - Electrical/Mechanical	
	4.5.1 Fire Services	21
	4.5.2 Gas	22
	4.5.3 Steam and Hot Water	23
4.6	Level Specifications - Structural	
	4.6.1 Structural	25

Appendix 4 Symbols

Vol00.doc

FAC Sydney Airport 00:00	Section
CADD Manual for Data Exchange of 15	Page 16
Covering Pages	