Alpha
Engineering Consultant

PROJECT QUALITY PLAN

AMANINDA CONDOMINIUM AT 329 THOMSON ROAD

For

M/S HO BEE DEVELOPMENTS PTE LTD

Copy No.	

Prepared By: Goh Soon Huat

Authorised By: Richard Teo

Date: 19 April 2004

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SECTION 1

QUALITY PLAN CONTROL AND DISTRIBUTION

1.1 List of Copy Holders

Copy No.	Copy Holder	Date of Issue
1	1347-PQP File	17 June 2003
2	Goh Soon Huat	17 June 2003

1.2 Revision Record

Revision	Date of Issue	Section Reference	Page(s)	Remarks
0	17 June 2003	1 to 10	29	
1	19 April 2004	1 to 10	29	

SECTION 2

PROJECT INFORMATION

2.1 Project Description

Type of Development	Residential

Statistics of Development	
Site Area, m²	4860.10 m²
Nett Floor Area, m²	-
Gross Floor Area, m²	6804.14 m²
Covered Carpark, m²	2330.65 m²
No. of Covered Carpark Lots	75
No. of Apartments/Houses	70 Units
No. of Beds (for Hospitals)	Not Applicable
No. of Guestroom (for Hotels)	Not Applicable
No. of Blocks / No. of Storeys	3 blocks of 4/5 storey
No. of Phases	3 / 1 phase

2.2 Project Cost

M&E Services Cost Plan (S$ x 1M)											
Services	EI	ACVI	LEI	FFAI	PSI	SPFI					
Estimate											
Awarded	0.5595										

Total Project Construction Cost (S$ x1M)			
	Site Clearance	Piling Works	Main Contract
Estimate	-	-	-
Awarded	Included	Included	9.5

Site Clearance shall include earth work, soil improvement, service diversion and termination.

2.3 Scope of Works

2.3.1 Scope of Consultancy Services

Conceptual/Schematic Design	✓
Detailed Design	
Tender Documentation	
Tender Evaluation	
Contract Supervision	✓
M&E Costing	
Submissions to Authority	✓

(✓ *where applicable*)

2.3.2 Scope of M&E Services

ELECTRICAL	✓	AIR CONDITIONING	✓	SPRINKLER		SANITARY	✓	SWIMMING POOL	✓
LIFT	✓	MECHANICAL VENTILATION	✓	FIRE ALARM	✓	COLD WATER	✓	STEAM BOILER	
ESCALATOR		MECHANICAL SMOKE EXTRACT		HOSEREEL	✓	HOT WATER	✓	FUEL STORAGE	
PABX		COMPUTER A/C		WET RISER		TOWN GAS	✓		
SECURITY	✓	BST CARPARK EXH	✓	DRY RISER	✓	LPG GAS			
TELELIFT		HEATING				MEDICAL GAS			
DATA COMM.									
FLUSHFLOOR TRUNKING									

(✓ *where applicable*)

2.3.3 Submission to Relevant Authorities by Others

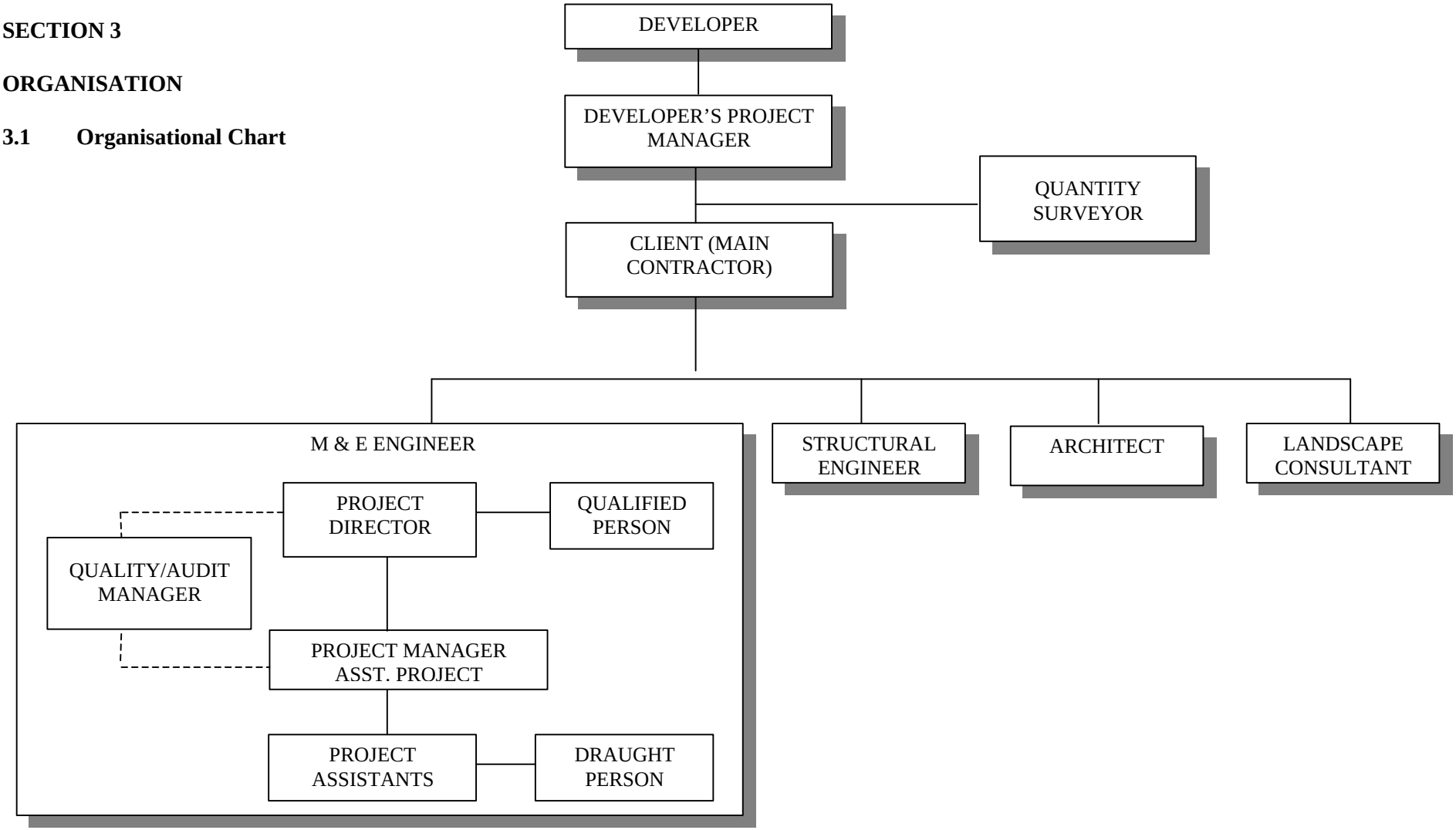
EJECTOR & DIVERTER		SUMP PUMP		FUEL OIL TANK		LIFT & ESCALATOR	✓	PRESSURE VESSEL		HOISTS		FOAM	

(✓ *where applicable*)

SECTION 3

ORGANISATION

3.1 Organisational Chart



SECTION 3

ORGANISATION

3.2 AEC's Project Team Member

TITLE		NAME
Project Director		Richard Teo (RT)
Qualified Person	Mechanical	Andrew Loh (LCT)
	Electrical	Richard Teo (RT)
Project Manager		Goh Soon Huat (GSH)
Assistant Project Manager		Chong Lai Meng (CLM)
Project Assistant (Mech)		Sam Chong (SC)
Project Assistant (Elect)		Alvin Ong (AO)
Draughtsperson		Common Pool
Resident Engineer (M&E)		-
Assistant Resident Engineer (M&E)		-
Clerk-of-Work (M&E) ** Under Developer		Ron Tan

3.3 Developer

Developer:- Ho Bee Investment Ltd

Address:- 2 Tannery Road #10-01
HB Centre
Singapore 347722

Tel:- 6748 7522 / 6749 0833

Fax:- 6745 9167

Developer's Representatives:-

Name of Firm	Contact Person	Contact
Ho Bee Investment Ltd	Name: Mr Soh Hwee Cheow Position: Director	Tel: 6748 7522 / 6749 0833 Fax: 6745 9167 Handphone: - Email: hcsoh@hobee.com
Ho Bee Investment Ltd	Name: Mr Lum Hon Chew Position: Project Manager	Tel: 6748 7522 / 6749 0833 Fax: 6745 9167 Handphone: - Email: lumhc@hobee.com
	Name: Position:	Tel: Fax: Handphone: Email:
	Name: Position:	Tel: Fax: Handphone: Email:
	Name: Position:	Tel: Fax: Handphone: Email:

3.4 Other Consultants (Local)

Function / Name of Firm	Contact Person	Contact
Architect P&T Consultants Pte Ltd	Name: Mr Richard Soon Position: Senior Associate	Tel: 6439 9097 Fax: 6535 1283 Handphone: - Email: rsoon@ptcon.com.sg
Quantity Surveyor Davis Langdon & Seah Singapore Pte Ltd	Name: Ms Helen See Position:	Tel: 6222 3888 Fax: 6224 7089 Handphone: - Email: mailqs@dls.com.sg
Structural Engineer P&T Consultants Pte Ltd	Name: Mr Tan Chee Hean Position: Associate	Tel: 6439 9073 Fax: 6534 5496 Handphone: - Email: chtan@ptcon.com.sg
Landscape Consultant Peridian Asia Pte Ltd	Name: Mr Nakagawa Takehito Position: Landscape Architect	Tel: 6227 7998 Fax: 6227 0509 Handphone: - Email: peridianasia@pacific.net.sg
Interior Designer NA	Name: Position:	Tel: Fax: Handphone: Email:
Lighting Consultant NA	Name: Position:	Tel: Fax: Handphone: Email:
Acoustic Consultant NA	Name: Position:	Tel: Fax: Handphone: Email:
_____	Name: Position:	Tel: Fax: Handphone: Email:

3.4 **Other Consultants** (Overseas) – **Not Used**

Function / Name of Firm	Contact Person	Contact
Architect	Name: Position:	Tel: Fax: Handphone: Email:
M&E Consultant	Name: Position:	Tel: Fax: Handphone: Email:
Quantity Surveyor	Name: Position:	Tel: Fax: Handphone: Email:
Structural Engineer	Name: Position:	Tel: Fax: Handphone: Email:
Interior Designer	Name: Position:	Tel: Fax: Handphone: Email:
Lighting Consultant	Name: Position:	Tel: Fax: Handphone: Email:
Acoustic Consultant	Name: Position:	Tel: Fax: Handphone: Email:
_____	Name: Position:	Tel: Fax: Handphone: Email:

3.5 Contractors/Sub-Contractors

Function / Name of Firm	Contract *	Contact Person	Contact
Main Contractor (Client) Nakano Singapore (Pte) Ltd	DC	Name: H. Nakamura Position:	Tel: 6333 4933 Fax: 6338 8568 Pager: - Handphone: - Email: nakamura@nakano.com.sg
Air Conditioning & Ventilation Installation Sub-Contractor Design Aire Engineering (S) Pte Ltd	DSC	Name: Francis Tham Position: Project Manager	Tel: 6746 9611 / 6252 4981 Fax: 6747 4922 Handphone: 9003 0742 Email: deaire@mbox3.singnet.com.sg
Plumbing & Sanitary Installation Sub-Contractor WTC Engineering Pte Ltd	DSC	Name: Joanna Pang Position: Designer / Project Coordinator	Tel: 6745 9733 Fax: 6745 6806 Handphone: - Email: wtc97@mbox2.singnet.com.sg
Electrical Installation Sub-Contractor Wah Loon electrical Engineering Pte Ltd	DSC	Name: Ken Lee Position: Senior Project Engineer	Tel: 6747 3773 Fax: 6741 3773 Handphone: 9100 6348 Email: wahloon@pacific.net.sg
Lift & Escalator Installation Sub-Contractor Hitachi Elevator Engineer (S) Pte Ltd	DSC	Name: Ng Yong Yi Position: Assistant Engineer	Tel: 6416 1827 Fax: 6561 0766 Handphone: - Email: yongyi.ng@hees.hitachi.co.sg
Fire Fighting & Alarm Installation Sub-Contractor Wah Loon electrical Engineering Pte Ltd (Fire alarm)	DSC	Name: Ken Lee Position: Senior Project Engineer	Tel: 6747 3773 Fax: 6741 3773 Handphone: 9100 6348 Email: wahloon@pacific.net.sg
Swimming Pool Filtration Plant Installation Sub-Contractor Hydrotech M&E Services Pte Ltd	DSC	Name: Lai Heng Tong Position:	Tel: 6748 4779 Fax: 6748 8016 Handphone: 9026 1457 Email: hydrotech3@yahoo.com.sg
Carpark System Installation Sub-Contractor NA	DSC	Name: Position:	Tel: - Fax: - Handphone: - Email: -
_____		Name: Position:	Tel: - Fax: - Handphone: - Email: -

** Type of Contract*
- *NSC (Nominated Sub-Contract)*
- *DSC (Domesticated Sub-Contract)*
- *DC (Direct Contract)*
- *NS (Nominated Supplier)*

3.6 Authorities

Authorities/Department	Contact Person	Tel/Fax Nos./E-mail
SP PowerGrid:		
(a) Sub-Station	Mr Francis Chang / Mr Joseph Samy	6823 8555 / 6240 9268
(b) Diversion		
SP Services:		
(a) Customer Supply	Mr Rick Lim	6823 8008
(b) Installation		
(c) Meter Section		
(d) Road Lighting		
TFCC:		
(a) SCV	Ms Jane Peh / Mr Eddie Chee	Tel: 6825 6366 / 6825 6361 Fax: 6821 7000
(b) SingTel	Mr Lim Kwee Peng	Tel: 6848 5705 / Pg: 9300 3276
(c) IDA		
BCD:		
(a) Building Plan		
FSSD:		
(a) Building Plan		
(b) M&E Section		
PUB (Water)		
(a) Water Conservation		
(b) Plumbing Plan		
(c) Diversion		
PUB (Sewerage):		
(a) Building Plan		
(b) M&E Section		
(c) Diversion		
CityGas:		
(a) Planning/Submission		
(b) Installation/Inspection		
PowerGas:		
(a) Diversion		
NEA (Pollution Control)		
(a) Planning/Submission		
(b) Inspection		

SECTION 4

PROGRAMME

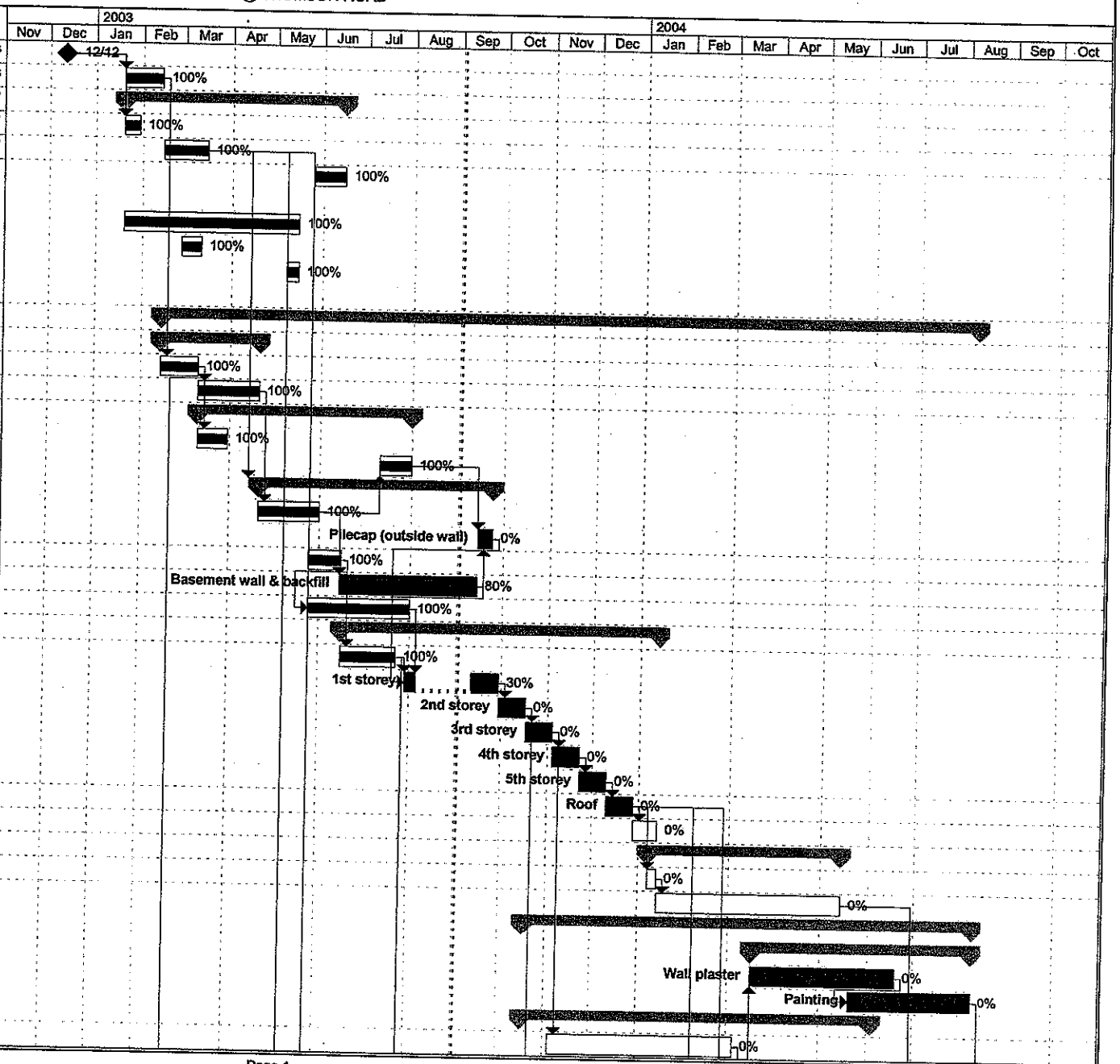
4.1 Overall Programme

SEE ATTACHED MASTER PROGRAMME

Tracking

Master Network Schedule
THE AMANINDA @ THOMSON ROAD

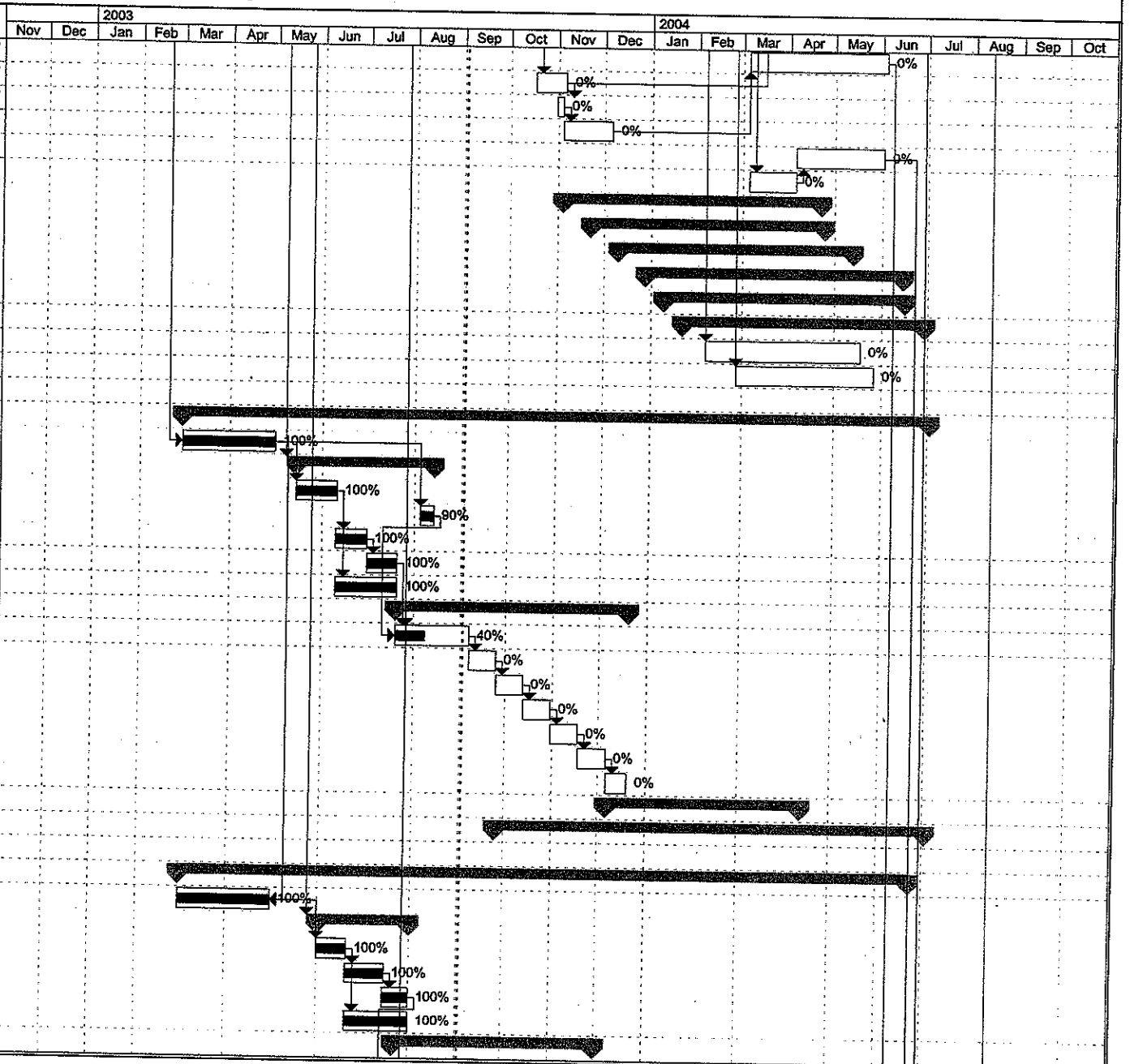
ID	Task Name	Duration
1	Site Possession	0 days
2	Delay 25 days due to SLA & URA issues	25 days
3	**AUTHORITY SUBMISSION**	**147 days?**
4	Piling	10 days?
5	Substructure	29 days?
6	Superstructure	21 days?
7		
8	TEMPORARY WORKS	116 days?
9	Soldierpile (1st)	13 days?
10	Soldierpile (2nd)	8 days?
11		
12	**BLOCK 3**	**541.2 days?**
13	**Piling works**	**66 days?**
14	Working pile 1	25 days?
15	Working pile 2	41 days?
16	**Earthwork**	**143 days?**
17	Cutting soil	20 days?
18	Backfill	21 days?
19	**Substructure**	**156 days?**
20	Pilecap	41 days?
21	Pilecap (outside wall)	10 days
22	Basement EL=107.00	22 days?
23	Basement wall & backfill	91 days?
24	U/g pipework, IC & rain water sumps	68 days
25	**Superstructure**	**211.2 days?**
26	Transfer beam / column	37 days?
27	1st storey	26 days?
28	2nd storey	18 days?
29	3rd storey	18 days?
30	4th storey	18 days?
31	5th storey	18 days?
32	Roof	18 days?
33	Parapet wall	16 days?
34	**Lift shaft**	**128 days?**
35	Lift shaft hand-over	6 days?
36	Lift installation & testings	122 days?
37	**External & Finishing**	**296 days?**
38	**External**	**145 days**
39	Wall plaster	95 days
40	Painting	80 days
41	**Basement**	**231 days?**
42	M&E 1st fix (piping, cable support, ductwork,etc)	122 days?



Tracking

Master Network Schedule
THE AMANINDA @ THOMSON ROAD

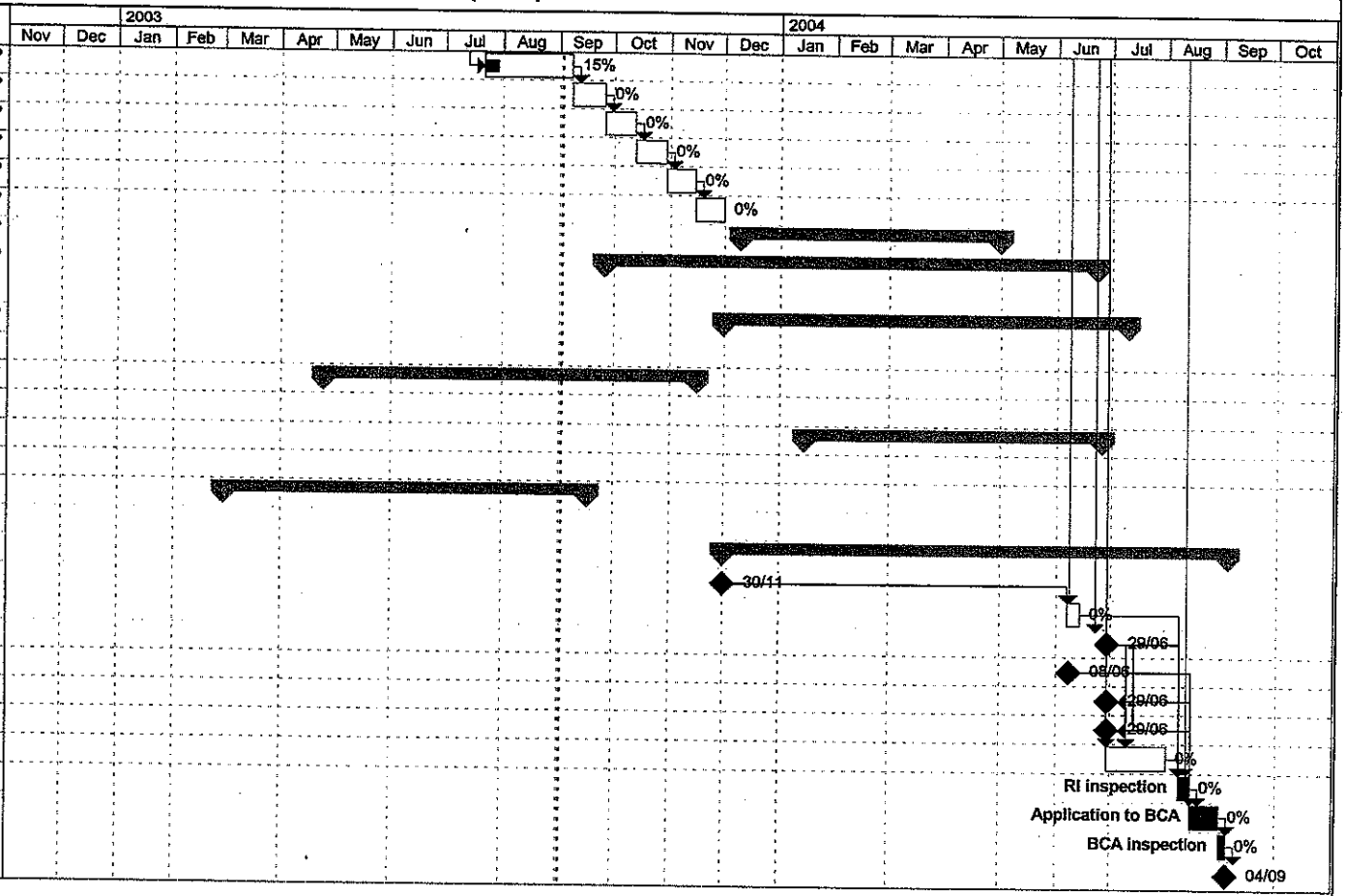
ID	Task Name	Duration
43	M&E final fix (DBs, mv fans, lighting, etc.)	91 days?
44	Brickwork	20 days?
45	Door frame	4 days?
46	Plaster	32 days?
47	Tile / marble	58 days?
48	False ceiling	31 days?
49	**1st storey**	**170 days**
66	**2nd storey**	**154 days?**
83	**3rd storey**	**155 days?**
100	**4th storey**	**170 days?**
117	**5th storey**	**159 days?**
134	**Roof**	**160 days?**
151	Pitch Roof	102 days?
152	Terrace area, w/proof,screed,etc	91 days?
153		
154	**BLOCK 2**	**490 days?**
155	Piling works	61 days
156	**Substructure**	**91 days?**
157	Pilecap (inside wall)	27 days?
158	Pilecap (outside wall)	9 days?
159	Basement EL=107.00	21 days?
160	Basement wall	20 days?
161	U/g pipework, IC & rain water sumps	41 days?
162	**Superstructure**	**153 days?**
163	1st storey	49 days?
164	2nd storey	18 days?
165	3rd storey	18 days?
166	4th storey	18 days?
167	5th storey	18 days?
168	Roof	18 days?
169	Parapet wall	14 days?
170	**Lift shaft**	**128 days?**
173	**External & Finishing**	**282 days?**
289		
290	**BLOCK 1**	**480 days?**
291	Piling works	61 days
292	**Substructure**	**61 days?**
293	Pilecap	20 days?
294	Basement	26 days?
295	Basement wall	17 days?
296	U/g pipework, IC & rain water sumps	42 days?
297	**Superstructure**	**132 days?**



Tracking

Master Network Schedule
THE AMANINDA @ THOMSON ROAD

ID	Task Name	Duration
298	1st storey	48 days?
299	2nd storey	18 days?
300	3rd storey	17 days?
301	4th storey	17 days?
302	Roof	16 days?
303	Parapet Wall	16 days?
304	**Lift shaft**	**143 days?**
307	**External & Finishing**	**271 days?**
406		
407	**Swimming pool**	**222 days?**
421		
422	**PUB Substation**	**205 days?**
425		
426	**External Works**	**163 days?**
435		
436	**M&E SHOP DRAWINGS**	**200 days**
439		
440	**Authority Inspection & Clearance**	**278.2 days?**
441	Substation hand-over to PowerGrid	0 days
442	Electrical turn-on to MainSwitch board	7 days
443	Water turn-on	0 days
444	Ready for Gas turn-on	0 days
445	ENV (Sew) clearance	0 days
446	EHD clearance	0 days
447	Pre-completion inspection	33 days
448	RI inspection	7 days?
449	Application to BCA	16 days
450	BCA inspection	4 days
451	Practical completion & handover	0 days



SECTION 4

PROGRAMME

4.2 Authority Submission Status for M&E Services

Department	Action by	Targeted Submission Date		Actual Submission Date	Advice Received			Target Resubmission Date	Actual Resubmission Date			Approval			Remark
												Expected		Actual	
		Original	Revised		1st	2nd	3rd		1st	2nd	3rd	1st	2nd		
1. Fire Protection - FSB	Alpha	28/04/2003	7/11/2003	2/03/2004								30/09/2003		4/03/2004	
2. AC & M/V - FSB	Alpha	21/04/2003	31/10/2003	27/02/2004								30/09/2003		2/03/2004	
3. Electrical (Power Supply)	Alpha	N.A.		26/09/2002								10/10/2002		2/10/2002	
4. Sub-station (Power Grid)	Alpha	15/12/2002	-	13/12/2002	19/12/2002	-	-	30/01/2003	30/01/2003	-	-	15/02/2003		17/02/2003	Revised layout submission approved 20/11/03
5. Elect. Single Line Dwgs (P.S)	Alpha	30/06/2003	Submission not required based on revised regulation									30/08/2003		(N.A.)	
6. Water Service (PUB)	Alpha	7/04/2003	1/09/2003	9/10/2003								30/09/2003		6/02/2004	
7. MDF Layout (Telecom)	Alpha	28/02/2003	-	19/12/2002	-	-	-	-	-	-	-	15/04/2003		28/01/2003	
8. Sewer - Sanitary Plumbing	Alpha	28/03/2003	23/05/2003	1/07/2003								6/06/2003		24/09/2003	
9. Sewer - Permit	LP														
10.Gas (Power Gas)	Alpha	14/04/2003	1/09/2003	16/10/2003								30/09/2003		26/11/2003	
11. SCV	Alpha	30/06/2003		8/5/2003								7/09/2003		4/06/2003	

SECTION 4

PROGRAMME

4.3 Authority Submission Status for M&E Services (Amendments) - Not Used

SECTION 5

PROJECT RECORDS

5.1 List of Internal Files

Standard Files

File Ref:		File Ref:	
-AE	✓	-AM	✓
-BD	✓	-CC	✓
-CM/SM	✓	-GC	✓
-PC	✓		

Project Files to be initiated by PM as and when required

File Ref:		File Ref:		File Ref:	
-AA	✓				
-CO/SQ	✓				
-SR	✓				
-ET/MT	✓				
-EC/MC	✓				
-PQP	✓				

Service Files to be initiated by PM as and when required

	Service										
File Ref:	ACVI	FFAI	PSI	EI	LI	SPFP					
-G	✓	✓	✓	✓	✓	✓					

SECTION 5

PROJECT RECORDS

5.2 Filing of Drawings

The following team members shall take charge of filing of drawings, stamping "SUPERSEDED" drawings, etc.

Description	Team Member
Incoming Architectural Floor Plans	AO
Incoming Architectural Sketches/Details	AO
Incoming Structural Drawings	AO
M&E Drawings	
- Electrical Installation	AO
- Lift & Escalator Installation	AO
- Air Conditioning & Ventilation Installation	SC
- Fire Fighting & Alarm Installation	SC
- Plumbing & Sanitary Installation	SC
- Swimming Pool & Filtration Installation	SC
Other Drawings	-

SECTION 6

INTERFACING

6.1 Method of Interface

Description	Method of Interface	
Client's Review & Approval	M&E Design Report	✓
	Pre-planned meeting at fixed intervals	✓
	Telefax, letter and telephone	✓
	Email	✓
Interface With External Design Teams	M&E Design Report	✓
	Pre-planned meeting at fixed intervals	✓
	Telefax, letter and telephone	✓
	Email	✓
Interface Between Internal Design Teams	Telephone	✓
	Email	✓
	Internal Project Team Meeting	✓
	Circulation of Information	✓

(✓ *where applicable*)

SECTION 6

INTERFACING

6.2 Internal Design Interface – Not Used

Item No.	Description*	Required From	Required By	Date Required	Remarks

** Information required by INTERNAL DESIGN TEAM MEMBERS*

SECTION 6

INTERFACING

6.3 Circulation of Documents to External Parties

	Code: A - Approval Required C - For Comments I - For Information Only	Client/ Client Rep.	Client's Project Manager	Architect	Structural Engineer	Quantity Surveyor	
1.	**Letters/Fax:**						
a.	Project Design	A	C	C	C	-	
b.	Project Administration	-	-	-	-	-	
c.	Project Cost Estimate/Contract Cost	-	-	-	-	-	
2.	**Drawings**						
a.	Outline Design Drgs.	C	C	C	C	-	
b.	Sketch Design Drgs.	C	C	C	C	-	
c.	Final Design Drgs.	A	C	C	C	-	
d.	Shop Drawings	-	-	A/C	C	-	
e.	As Built Drgs.	I	-	-	-	-	
3.	**Other Document**						
a.	Specification	-	-	-	-	-	
b.	Tender Document	-	-	-	-	-	
c.	Tender Evaluation Report	-	-	-	-	-	
d.	Design Report	C	C	I	-	-	
e.	Progress Report	-	-	-	-	-	
f.	Financial Report	-	-	-	-	-	
g.	Minutes of Meeting	I	I	I	I	-	
h.	Inspection Report	-	-	-	-	-	
i.	Testing & Comm. Report	-	-	-	-	-	
j.	O & M Manual	-	-	-	-	-	

SECTION 7

WORK AUTHORISATION

Activity \ Authorised Signatories	PD	QP	PM	AE	SS
General Correspondences with Client	✓	✓	✓		
General Correspondences with Other Consultants			✓	✓	
M&E Cost Estimate Report	✓		✓		
M&E Design Report	✓		✓		
Check Prints		✓			
Tender Drawing Approval					
Tender Specification Approval					
List of Tenderers					
Tender Questionnaires					
Tender Reports					
Draft Letter of Award					
Review of Contractor's Shop Drawing			✓	✓	
Review of Contractor's Technical Submittal			✓	✓	
Review of Contractor's Sample Submittal			✓	✓	
Contractor's Request for Deviation			✓		
Progress Payment Valuation Form					
Final Account Valuation					
Draft Variation Order					
Engineer/Architect's Instruction/Direction					
Site Instruction/Direction					
Correspondence/Submission to Authorities		✓	✓		

(✓ *where authorised*)

Key to abbreviations:-

PD : Project Director
QP : Qualified Person
PM : Project Manager/Assistant Project Manager
AE : Assistant Engineer
SS : AEC Site Staff

SECTION 8

DESIGN INPUT & METHODOLOGY

8.1 List of Client's Standards, Reference Documents or Brief

ITEM	KEPT BY
NA	NA

8.2 List of Applicable Code of Practice and Regulations

Electrical Wiring	~~BS~~	SS	~~IEE~~	~~NFPA~~	
Lightning Protection System	~~BS~~	SS			
Emergency Voice Communication System	~~BS~~	~~SS~~	~~NFPA~~		
Air Conditioning & Ventilation Installation	~~BS~~	~~AS~~	~~NFPA~~	SS	~~MS~~
Lift & Escalator Installation	~~BS~~	SS			
Automatic Fire Alarm System	~~BS~~	SS	~~NFPA~~	~~AS~~	~~MS~~
Sanitary System	~~BS~~	SS	~~NFPA~~	~~AS~~	~~MS~~
Plumbing System	~~BS~~	SS	~~NFPA~~	~~AS~~	~~MS~~
Town Gas/LPG Supply System	~~BS~~	SS	~~NFPA~~	~~AS~~	

(Delete where necessary)

SECTION 8

DESIGN INPUT & METHODOLOGY

8.3 List of Design Guide or Handbook Used

Carrier's Handbook of Air Conditioning System Design

ASHRAE Handbooks

Institute of Plumbing's Plumbing Services Design Guide

8.4 List of Applicable Quality System Procedures

Alpha Engineering Consultant's Quality Management System Procedures

Section	Title
M1	Preparation of Consultancy Offer
M2	Project Commissioning and Service Agreement
M3	Design Control
M4	Design Change Control
M5	Tender Process and Evaluation
M6	Authority Submission
M7	Construction Process Control
M8	Testing and Commissioning
S1	Document Control
S2	Documentation of Quality Management System Procedure
S3	Documentation of Project Quality Plan
S4	Specification Control
S5	Library Control
S6	Archive Control
S7	Filing Control
S8	Drawing Control
S9	Administration Control
S10	Purchasing Control
S11	Training Control
S12	Computer Control
Q1	Quality System Audit
Q2	Feedback Reporting
Q3	Clients Feedback
Q4	Management Review

8.5 List of Software Used For Design/Analysis

DESCRIPTION/ PACKAGE NAME	VERSION	SUPPLIER/ SOURCE	PURPOSE	
Calculux	2.30	Philips	Lighting design	
Cophos	3.31	Zumtobel	Lighting design	
Carrier E20-II	3.21	Carrier	Programme for determination of heat load, duct size and its losses, etc.	✓
Gensize 2	2.1	Onan	Generator sizing	✓
Lift Traffic	-	Alpha Engineering	Lift traffic calculation	✓
Econdial	2.5	Merlin Gerlin	Design for low voltage network	
Hyena	4.00.1	ACADS-BSG	Fire Sprinkler & Hydrant Analysis	
Fault Level Calculation	-	Alpha Engineering	Calculation of voltage drop and fault level	

(✓ *where applicable*)

SECTION 9

CLIENT'S REQUIREMENTS

9.1 List of Output Required by Client:-

Item	* Remarks
M&E Design Report	C
M&E Cost Estimate Report	NA
Pre-Qualification of Tenderers	NA
Tender Documents	NA
Tender Report	NA
Payment Valuation for QS	NA
Certificates of Supervision for TOP/CSC	Re

** Remarks*

A: for approval C: for comment I: for Information Re: for record

Other purposes and for action: please specify.

9.2 Specific Procedures Required By Client *(If applicable) – Not Used*

SECTION 10

LIST OF SUB-JOB

10.1 List of Sub-Job Numbers – Not Used

Sub Job No	Description	Allocation Details