Alpha
Consulting Engineers Pte Ltd

PROJECT QUALITY PLAN

MEADOWS @ PEIRCE

For

UOL DEVELOPMENT PTE LTD

Copy No.	1

Prepared By: Kevin Kee / Chim Heng Leong

Authorised By: Loh Fook Yuen

Date: 10 January 2011

TABLE OF CONTENTS

SECTION	DESCRIPTION
-	**TITLE PAGE**
-	**TABLE OF CONTENTS**
1	**QUALITY PLAN CONTROL AND DISTRIBUTION**
1.1	List of Copy Holders
1.2	Revision Record
2	**PROJECT INFORMATION**
2.1	Project Description
2.2	Project Cost
2.3	Scope of Works
3	**ORGANISATION**
3.1	Organisation Chart
3.2	ACEPL's Project Team Member
3.3	Client/Client's Representative
3.4	Other Consultants - Local - Overseas – Not Used
3.5	Contractor/Sub-Contractors
3.6	Authorities
4	**PROGRAMME**
4.1	Overall Programme
4.2	Authority Submission Status for M&E Services – 1st Submission
4.3	Authority Submission Status for M&E Services (Amendment) – 2nd Submission – Not Used
5	**PROJECT RECORDS**
5.1	List of Internal Files
5.2	Filing of Drawings

TABLE OF CONTENTS

SECTION	DESCRIPTION
6	**INTERFACING**
6.1	Method of Interface
6.2	Internal Design Interface – Not Used
6.3	Circulation of Documents to External Parties
7	**WORK AUTHORISATION**
8	**DESIGN INPUT AND METHODOLOGY**
8.1	List of Client's Standards, Reference Documents or Brief – Not Used
8.2	List of Applicable Code of Practice and Regulations
8.3	List of Design Guide or Handbook Used
8.4	List of Applicable Quality System Procedures
8.5	List of Software Used for Design/Analysis – Not Used
9	**ENVIRONMENTAL CONSIDERATIONS**
9.1	Sustainable Design Features / Criteria
9.2	Site PPE Requirement
9.3	Site Emergency Preparedness
9.4	Reporting of Environmental Non-conformances
9.5	List of Applicable Environmental Management System Procedures
10	**CLIENT'S REQUIREMENTS**
10.1	List of Output Required by Client
10.2	Specific Procedures Required by Client – Not Used
11	**LIST OF SUB-JOB**
11.1	List of Sub-Job Numbers – Not Used

SECTION 1

QUALITY PLAN CONTROL AND DISTRIBUTION

1.1 List of Copy Holders

Copy No.	Copy Holder	Date of Issue
1	6065-PQP	10 Jan 2011

1.2 Revision Record

Revision	Date of Issue	Section Reference	Page(s)	Remarks
0	30 May 2008	1 to 11	29	+ 2 pgs (Section 4.1 – Overall Programme)
1	26 June 2009	1 to 11	28	+ 2 pgs (Section 4.1 – Overall Programme)
2	28 April 2010	1 to 11	28	+ 19 pgs (Section 4.1 – Master Construction Program)
3	10 January 2011	1 to 11	28	+ 19 pgs (Section 4.1 – Master Construction Program)

SECTION 2

PROJECT INFORMATION

2.1 Project Description

Type of Development	Residential

Statistics of Development	
Site Area, m²	42,826.70
Nett Floor Area, m²	-
Gross Floor Area, m²	59,959.76
Covered Carpark, m²	-
No. of Covered Carpark Lots	451
No. of Apartments/Houses	479
No. of Beds (for Hospitals)	-
No. of Guestroom (for Hotels)	-
No. of Blocks / No. of Storeys	1 Block of 14-Storey and 3Blocks of 5-Storey
No. of Phases	1

2.2 Project Cost

M&E Services Cost Plan (S$ x 1M)						
Services	EI	ACVI	LEI	FFAI	PSI	SPFI
Estimate	-	-	-	-	-	-
Awarded	13.5	8.0	5.984	1.4	9.05	0.877

Total Project Construction Cost (S$ x1M)			
	Site Clearance	Piling Works	Main Contract
Estimate	-	-	-
Awarded	-	-	202

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

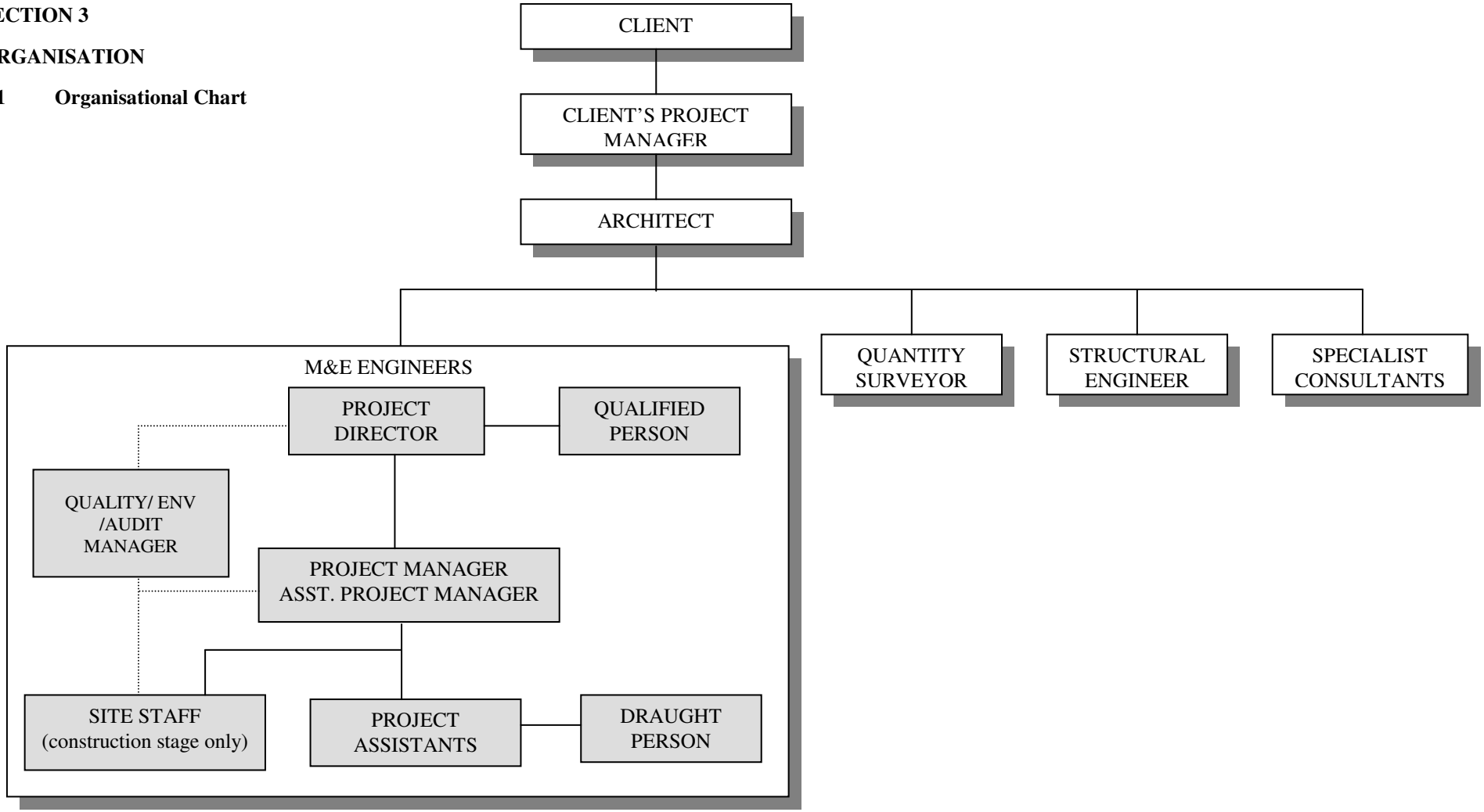
EJECTOR & DIVERTER		SUMP PUMP		FUEL OIL TANK		LIFT & ~~ESCALATOR~~	✓	PRESSURE VESSEL		HOISTS		FOAM	

(✓*where applicable*)

SECTION 3

ORGANISATION

3.1 Organisational Chart



SECTION 3

ORGANISATION

3.2 ACEPL's Project Team Member

TITLE		NAME
Project Director		Loh Fook Yuen (LFY)
Qualified Person	Mechanical	Loh Chew Thong (LCT)
	Electrical	Loh Fook Yuen (LFY)
Project Manager		Chim Heng Leong (CHL)
Assistant Project Manager		Lim Chai Hoon (LCY)
Project Assistant (Mech)		Kevin Kee (KK)
Project Assistant (Elect)		Vivien Tan (VT)
Draughtsperson		Common Pool
Resident Engineer (M&E)		-

3.3 Client/Client's Representatives

Client: (Developer)	UOL Development Pte Ltd	Client: (Main Contractor)	Poh Lian Construction Pte Ltd
Address:	101 Thomson Road #33-00 United Square Singapore 307591	Address:	103 Defu Lane 10, 2nd Floor Poh Lian Building 1 Singapore 539223
Tel:	6255 0233	Tel:	6284 7622
Fax:	6252 9822	Fax:	6284 1353

Client's Representatives:-

Name of Company	Contact Person	Contact
UOL Development Pte Ltd	Name: Ms See Wai-Ming Position: Project Manager	Tel: 6354 9635 Fax: 6252 9822 Handphone: - Email: see.waiming@uol.com.sg
Poh Lian Construction Pte Ltd	Name: Mr Robert Han Position: Project Manager	Tel: 6284 7622 Fax: 6284 1353 Handphone: 9236 3287 Email: roberthan@pohlian.com.sg
	Name: Mr Kwoh Chien Huat Position: Deputy Project Manager	Tel: 6284 7622 Fax: 6284 1353 Handphone: 9101 5858 Email: chkwoh@pohlian.com.sg
	Name: Mr William Chin Position: Senior M&E Coordinator	Tel: 6284 7622 Fax: 6284 1353 Handphone: 9455 9031 Email: williamchin@pohlian.com.sg

3.4 **Other Consultants** (Local)

Function / Name of Company	Contact Person	Contact
Architect Ong & Ong Architects	Name: Mr Fan Wyman Position: Associate	Tel: 6258 8666 Fax: 6259 8648 Handphone: - Email: fan.wyman@ong-ong.com
Quantity Surveyor Rider Levett Bucknall	Name: Ms Lee Ming Chin Position: -	Tel: 6339 1500 Fax: 6339 1521 Handphone: - Email: mc.lee@sg.rlb.com
Structural Engineer TEP Consultants Pte Ltd	Name: Mr Pok Ming Wee Position: Director	Tel: 6339 7277 Fax: 6338 8362 Handphone: - Email: pok_ming_wee@tepc.com.sg
Interior Designer	Name: Position:	Tel: Fax: Handphone: Email:
Lighting Consultant	Name: Position:	Tel: Fax: Handphone: Email:
Acoustic Consultant	Name: Position:	Tel: Fax: Handphone: Email:
Landscape Architect Salad Dressing	Name: Mr Amos Position: -	Tel: 6223 7300 Fax: 6220 0021 Handphone: - Email: makamos@saladlandscape.com
_____	Name: Position:	Tel: Fax: Handphone: Email:

3.4 **Other Consultants** (Overseas) – **NOT USED**

Function / Name of Company	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 Company	Contract *	Contact Person	Contact
Main Contractor Poh Lian Construction Pte Ltd	DC	Name: Mr Robert Han Position: Project Manager	Tel: 6284 7622 Fax: 6284 1353 Handphone: 9236 3287 Email: roberthan@pohlian.com.sg
Air Conditioning & Ventilation Installation Sub-Contractor Leong Hum Engineering (S) Pte Ltd	DSC	Name: Mr Andy Chan Position: Project Manager	Tel: 6296 8473 Fax: 6296 0213 Handphone: - Email: andy@leonghum.com.sg
Plumbing & Sanitary Installation Sub-Contractor Zheng Keng Engineering & Construction Pte Ltd	DSC	Name: Mr Dickson Chan Position:	Tel: 6756 8610 Fax: 6753 4718 Handphone: 8201 3399 Email: enquiry@zhengkeng.com.sg
Electrical Installation Sub-Contractor Koyo Engineering Pte Ltd	DSC	Name: Mr Donald Wong Position:	Tel: 6744 9388 Fax: 6744 0788 Handphone: - Email: koyoengrg@koyotech.com
Lift & Escalator Installation Sub-Contractor Hitachi Elevator Engineering (S) Pte Ltd	DSC	Name: Mr Tony Lee Position:	Tel: 6416 1711 Fax: 6561 0766/6561 0991 Handphone: - Email:
Fire Fighting & Alarm Installation Sub-Contractor Rico Engineering Works Pte Ltd	DSC	Name: Mr Peter Yeo Position:	Tel: 6482 0153 Fax: 6482 0553 Handphone: - Email: rewpl@ricoeng.com.sg
Swimming Pool Filtration Plant Installation Sub-Contractor Hydrotech M&E Services Pte Ltd	DSC	Name: Mr Louis Lai Position: Project Manager	Tel: 6748 4779 Fax: 6748 8016 Handphone: 9695 0969 Email: project@hydrotechme.com.sg
Carpark System Installation Sub-Contractor NA		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		
(b) Diversion	Mr Lee Say Teck	6279 9568
SP Services: (a) Customer Supply	Mr Rick Lim	6822 8008
(b) Installation		
(c) Meter Section		
(d) Road Lighting		
TFCC: (a) SCV		
(b) SingTel		
(c) IDA		
BCA: (a) Building Plan		
FSSD: (a) Building Plan		
(b) M&E Plan		
PUB (Water Supply) Network Dept: (a) Water Conservation		
(b) Plumbing Plan	Ms Cheng Kia Yin	6731 3688/ 6731 3023 cheng_kia_yin@pub.gov.sg
(c) Diversion		
PUB Water Reclamation (Network) Dept: (a) Building Plan/CBPU	Mrs Alison Liew/ Mr Abdul Razak Bin Abdul Majid	6731 9155/ 6731 9385
(b) M&E Plan		
(c) Diversion		
City Gas Pte Ltd: (a) Planning/Submission	Mr Liew Khee Boon	6586 8846
(b) Installation/Inspection		
PowerGas Pte Ltd (a) Diversion		
NEA (Pollution Control) (a) Planning/Submission		
(b) Inspection		

SECTION 4

PROGRAMME

4.1 Overall Programme (refer to attach master programme)

ID	TASK NAME	MONTHS	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
1.	Preliminary Planning																									
2.	Planning Submission																									
3.	Detail Design																									
4.	BP Submission																									
5.	BP Submission (Amendments)																									
6.	Tender Period for Piling																									
7.	Tender Period for Sub-Structure																									
8.	Tender Period for Super-Structure																									
9.	Piling Period																									
10.	Sub-Structure Construction Period																									
11.	Super-Structure Construction Period																									
12.	TOP																									
13.	CSC																									

MEADOWS @ PEIRCE
MASTER CONSTRUCTION PROGRAM
REVISION 7(R)

PREPARED BY: VOON KIM LOON
APPROVED BY: LEONG CHEE KENG
DATE: 23 OCTOBER 2009

ID	Task Name	Duration	Start	Finish	Late Start	Late Finish	Finish Slack
1	**GENERAL**	**1278 days**	**01/04/08**	**30/09/11**	**01/04/08**	**30/09/11**	**0 days**
2	Phase 1 Contract Period	1278 days	01/04/08	30/09/11	01/04/08	30/09/11	0 days
3	Phase 2A Contract Period	638 days	01/01/10	30/09/11	01/01/10	30/09/11	0 days
4	Phase 2B Contract period	548 days	01/04/10	30/09/11	01/04/10	30/09/11	0 days
5							
6	**AUTHORITY SUBMISSION APPROVAL**	**378 days**	**01/04/08**	**13/04/09**	**11/08/08**	**30/10/09**	**200 days**
7	Application of permit for demolition	30 days	01/04/08	30/04/08	31/08/08	29/09/08	152 days
8	Obtain Permit to commence Piling (Tower 2 & 3)	1 day	11/08/08	11/08/08	11/08/08	11/08/08	0 days
9	Obtain Permit to commence Piling (Tower 4 & 5)	1 day	30/09/08	30/09/08	30/09/08	30/09/08	0 days
10	Obtain Permit to commence Substructure	1 day	13/04/09	13/04/09	30/10/09	30/10/09	200 days
11	TERS submission & approval	14 days	29/09/08	12/10/08	29/09/08	12/10/08	0 days
12							
13	**PHASE 1 - Revised As Per Supplementary Agreement**	**1048 days?**	**30/07/08**	**12/06/11**	**28/09/08**	**12/06/11**	**0 days?**
14	Confirmation of Mix Unit Type Changes Design	13 days	18/04/09	30/04/09	31/05/10	12/06/10	408 days
15							
16	**AUTHORITY SUBMISSION AND APPROVAL**	**518 days?**	**30/07/08**	**29/12/09**	**10/07/09**	**24/02/10**	**57 days?**
17	**Structural Authority Submission & Approval**	**505 days?**	**30/07/08**	**16/12/09**	**10/07/09**	**17/12/09**	**1 day?**
18	ST 01 Piling Works Tower 2&3	17 days	30/07/08	15/08/08	10/07/09	26/07/09	345 days
19	ST 02 Piling Works Tower 4	16 days	20/10/08	04/11/08	27/07/09	11/08/09	280 days
20	ST 03 Substructure Tower 2,3 &4 & Column wall	16 days	11/12/08	26/12/08	21/07/09	05/08/09	222 days
21	ST 03 Household Shelter Wall	16 days	11/12/08	26/12/08	21/07/09	05/08/09	222 days
22	CS 02 HouseHold Shelter	45 days	02/03/09	15/04/09	06/08/09	19/09/09	157 days
23	ST 04 Superstructure - 1st & Typical sty Tower 2&3	21 days	26/02/09	18/03/09	30/08/09	19/09/09	185 days
24	ST 05 Environmental Deck Tower 2& 3	16 days	05/03/09	20/03/09	04/09/09	19/09/09	183 days
25	ST 06 Piling amendment to ST01 & ST02	5 days	23/04/09	27/04/09	20/09/09	24/09/09	150 days
26	ST 07 Substructure amendment to ST03	14 days	30/06/09	13/07/09	11/09/09	24/09/09	73 days
27	ST 08 Superstructure 1st sty Tower 4A,4B, 5A & 5B	23 days	06/08/09	28/08/09	25/09/09	17/10/09	50 days
28	ST 08 Superstructure typical sty Tower 4A, 4B, 5A & 5B	23 days	06/08/09	28/08/09	25/09/09	17/10/09	50 days
29	ST 09 Environmental Deck Tower 4& 5	13 days	18/09/09	30/09/09	18/10/09	30/10/09	30 days
30	ST10 HS Wall /Lift core (Tower 3B, 4&5)	14 days	13/10/09	26/10/09	04/12/09	17/12/09	52 days
31	ST11 Superstructure -PH Attic & Roof (Tower 2&#) and staircase (All Blks)	7 days	18/09/09	24/09/09	24/10/09	30/10/09	36 days
32	ST 12 Tower 1 A& A & Underpinning works	15 days	30/10/09	13/11/09	31/10/09	14/11/09	1 day
33	CS 03 HS wall Tower 3B, 4 &5 amendement to CS 02	7 days	18/09/09	24/09/09	24/10/09	30/10/09	36 days
34	ST 13 Roof and Attic Level	14 days	30/10/09	12/11/09	31/10/09	13/11/09	1 day
35	ST 14 Steel Roof	15 days	16/11/09	30/11/09	17/11/09	01/12/09	1 day
36	ST 15 Electrical Substation & Guard House	15 days	02/12/09	16/12/09	03/12/09	17/12/09	1 day
37	ST 16 Aluminium Railing & Guard House	1 day?	16/11/09	16/11/09	17/12/09	17/12/09	31 days?
38							
39	**M&E Authority Submissions & Approval**	**188 days**	**25/06/09**	**29/12/09**	**14/09/09**	**24/02/10**	**57 days**
40	Power Grid Substation	13 days	25/06/09	07/07/09	14/09/09	26/09/09	81 days
41	MDF(TFCC/IDA)	22 days	22/07/09	12/08/09	27/09/09	18/10/09	67 days
42	FSSD(AC & M/V)	30 days	15/11/09	14/12/09	26/01/10	24/02/10	72 days
43	FSSD (Fire Protection)	15 days	15/12/09	29/12/09	10/02/10	24/02/10	57 days
44	BCA basement car park ventilation system	33 days	13/07/09	14/08/09	08/10/09	09/11/09	87 days
45	Gas Services	30 days	30/10/09	28/11/09	26/01/10	24/02/10	88 days
46	PUB Water services	30 days	30/10/09	28/11/09	01/11/09	30/11/09	2 days
47	CBPU (Sanitary)	30 days	30/10/09	28/11/09	26/01/10	24/02/10	88 days
48							
49	**CONFIRMATION OF NOMINATED CONTRACTS**	**502 days**	**28/04/09**	**11/09/10**	**17/08/09**	**09/12/10**	**89 days**
50	Testing Specialist contractor on Tower 1	7 days	28/04/09	04/05/09	17/08/09	23/08/09	111 days
51	Repair Specialist contractor on Tower 1	14 days	18/12/09	31/12/09	18/12/09	31/12/09	0 days
52	Softscape works	30 days	20/05/10	18/06/10	13/06/10	12/07/10	24 days
53	Gym equipment	30 days	13/08/10	11/09/10	10/11/10	09/12/10	89 days
54							
55	**Excavation Works**	**392.5 days**	**11/10/08**	**07/11/09**	**03/11/08**	**30/11/09**	**23.5 days**
56	Excavation to basement level (Tower 2, 3 & carparK area)	365 days	11/10/08	10/10/09	03/11/08	03/11/09	23.5 days
57	Excavation to basement level (Tower 4, 5 & carpark area)	210 days	11/04/09	07/11/09	05/05/09	30/11/09	23.5 days
58							
59	**Piling Works**	**539 days**	**11/09/08**	**03/03/10**	**03/10/08**	**03/03/10**	**0 days**
60	**Tower 2**	107 days	11/09/08	26/12/08	08/02/09	25/05/09	150 days
61	**Tower 3**	120 days	11/10/08	07/02/09	28/12/08	26/04/09	78 days
62	**Tower 4**	90 days	01/10/08	29/12/08	03/10/08	31/12/08	2 days
63	**Between Tower 2 & 3**	120 days	23/10/08	19/02/09	26/01/09	25/05/09	95 days

MEADOWS @ PEIRCE
MASTER CONSTRUCTION PROGRAM
REVISION 7(R)

PREPARED BY: VOON KIM LOON
APPROVED BY: LEONG CHEE KENG
DATE: 23 OCTOBER 2009

ID	Task Name	Duration	Start	Finish	Late Start	Late Finish	Finish Slack
64	Tower 5B GL 66/4-88/4	120 days	30/03/09	27/07/09	26/05/09	22/09/09	57 days
65	Tower 5A (Pile raft) GL 40/4/-66/4	55 days	12/08/09	05/10/09	12/08/09	05/10/09	0 days
66	Between Tower 4 & 5	324 days	09/01/09	28/11/09	11/01/09	30/11/09	2 days
67	Outside Tower 2 pile raft	20 days	31/07/09	19/08/09	26/09/09	15/10/09	57 days
68	Outside Tower 3A pile raft	20 days	11/07/09	30/07/09	26/09/09	15/10/09	77 days
69	Outside Tower 4A pile raft	43 days	20/08/09	01/10/09	19/10/09	30/11/09	60 days
70	Outside Tower 5B Pile raft	21 days	11/10/09	31/10/09	10/11/09	30/11/09	30 days
71	Outside Tower 5A Pile raft GL 40/4-66/4	86 days	01/12/09	24/02/10	01/12/09	24/02/10	0 days
72	Last Working Load Tests at Tower 5A	7 days	25/02/10	03/03/10	25/02/10	03/03/10	0 days
73							
74	SUBSTRUCTURE/PILE RAFT/BASEMENT SLAB	654 days	12/08/08	27/05/10	28/09/08	10/07/10	44 days
75	Anti-termite treatment	290 days	12/08/08	28/05/09	28/09/08	14/07/09	47 days
76	Tower 2	120 days	10/01/09	09/05/09	15/01/09	14/05/09	5 days
77	Tower 3A GL 9/3-27/3	120 days	08/02/09	07/06/09	27/04/09	24/08/09	78 days
78	Tower 5B GL 66/4-88/4	59 days	08/07/09	04/09/09	15/07/09	11/09/09	7 days
79	Tower 4A GL 23/4-38/4	29 days	27/07/09	24/08/09	03/08/09	31/08/09	7 days
80	Tower 3B GL 27/3-42/3	80 days	27/07/09	14/10/09	09/09/09	27/11/09	44 days
81	Tower 4B GL 1/4-23/4	75 days	02/09/09	15/11/09	16/10/09	29/12/09	44 days
82	Tower 5A (Pile Raft with retaining wall)) GL 40/5-66/4	56 days	06/10/09	30/11/09	06/10/09	30/11/09	0 days
83	Between Tower 2 & 3	60 days	09/01/10	09/03/10	24/01/10	24/03/10	15 days
84	Between Tower 4 & 5	60 days	15/03/10	13/05/10	22/03/10	20/05/10	7 days
85	Between Tower 3 & 4	60 days	29/03/10	27/05/10	12/05/10	10/07/10	44 days
86							
87	E DECK	245 days	10/03/10	09/11/10	25/03/10	19/11/10	10 days
88	E Deck between Tower 2 & 3	180 days	10/03/10	05/09/10	25/03/10	20/09/10	15 days
89	E Deck between Tower 4 & 5	180 days	14/05/10	09/11/10	21/05/10	16/11/10	7 days
90	E Deck between Tower 3 & 4	105 days	28/05/10	09/09/10	07/08/10	19/11/10	71 days
91							
92	SUPERSTRUCTURES	481 days	10/05/09	02/09/10	15/05/09	20/09/10	18 days
93	SUPERSTRUCTURAL - TOWER 2	244 days	10/05/09	08/01/10	15/05/09	23/01/10	15 days
94	1st storey slab	67 days	10/05/09	15/07/09	15/05/09	20/07/09	5 days
95	2nd storey slab	59 days	16/07/09	12/09/09	21/07/09	17/09/09	5 days
96	3rd storey slab	25 days	13/09/09	07/10/09	18/09/09	12/10/09	5 days
97	4th storey slab	21 days	08/10/09	28/10/09	13/10/09	02/11/09	5 days
98	5th storey slab	21 days	29/10/09	18/11/09	03/11/09	23/11/09	5 days
99	Attic level	21 days	19/11/09	09/12/09	24/11/09	14/12/09	5 days
100	Roof	30 days	10/12/09	08/01/10	25/12/09	23/01/10	15 days
101	SUPERSTRUCTURAL - TOWER 3A GL9/3 to 27/3	220 days	08/06/09	13/01/10	25/08/09	01/04/10	78 days
102	1st storey slab	60 days	08/06/09	06/08/09	25/08/09	23/10/09	78 days
103	2nd storey slab	46 days	07/08/09	21/09/09	24/10/09	08/12/09	78 days
104	3rd storey slab	21 days	22/09/09	12/10/09	09/12/09	29/12/09	78 days
105	4th storey slab	21 days	13/10/09	02/11/09	30/12/09	19/01/10	78 days
106	5th storey slab	21 days	03/11/09	23/11/09	20/01/10	09/02/10	78 days
107	Attic level	21 days	24/11/09	14/12/09	10/02/10	02/03/10	78 days
108	Roof	30 days	15/12/09	13/01/10	03/03/10	01/04/10	78 days
109	SUPERSTRUCTURAL - TOWER 5B GL 66/4-88/4	179 days	05/09/09	02/03/10	05/10/09	01/04/10	30 days
110	1st storey slab	44 days	05/09/09	18/10/09	05/10/09	17/11/09	30 days
111	2nd storey slab	21 days	19/10/09	08/11/09	18/11/09	08/12/09	30 days
112	3rd storey slab	21 days	09/11/09	29/11/09	09/12/09	29/12/09	30 days
113	4th storey slab	21 days	30/11/09	20/12/09	30/12/09	19/01/10	30 days
114	5th storey slab	21 days	21/12/09	10/01/10	20/01/10	09/02/10	30 days
115	Attic level	21 days	11/01/10	31/01/10	10/02/10	02/03/10	30 days
116	Roof	30 days	01/02/10	02/03/10	03/03/10	01/04/10	30 days
117	SUPERSTRUCTURAL - TOWER 4A GL 23/4-38/4	202 days	25/08/09	14/03/10	01/09/09	21/03/10	7 days
118	1st storey slab	67 days	25/08/09	30/10/09	01/09/09	06/11/09	7 days
119	2nd storey slab	21 days	31/10/09	20/11/09	07/11/09	27/11/09	7 days
120	3rd storey slab	21 days	21/11/09	11/12/09	28/11/09	18/12/09	7 days
121	4th storey slab	21 days	12/12/09	01/01/10	19/12/09	08/01/10	7 days
122	5th storey slab	21 days	02/01/10	22/01/10	09/01/10	29/01/10	7 days
123	Attic level	21 days	23/01/10	12/02/10	30/01/10	19/02/10	7 days
124	Roof	30 days	13/02/10	14/03/10	20/02/10	21/03/10	7 days
125	SUPERSTRUCTURAL - TOWER 3B 27/3-42/3	165 days	15/10/09	28/03/10	28/11/09	11/05/10	44 days
126	1st storey slab	30 days	15/10/09	13/11/09	28/11/09	27/12/09	44 days
127	2nd storey slab	21 days	14/11/09	04/12/09	28/12/09	17/01/10	44 days

MEADOWS @ PEIRCE
MASTER CONSTRUCTION PROGRAM
REVISION 7(R)

PREPARED BY: VOON KIM LOON
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DATE: 23 OCTOBER 2009

ID	Task Name	Duration	Start	Finish	Late Start	Late Finish	Finish Slack
128	3rd storey slab	21 days	05/12/09	25/12/09	18/01/10	07/02/10	44 days
129	4th storey slab	21 days	26/12/09	15/01/10	08/02/10	28/02/10	44 days
130	5th storey slab	21 days	16/01/10	05/02/10	01/03/10	21/03/10	44 days
131	Attic level	21 days	06/02/10	26/02/10	22/03/10	11/04/10	44 days
132	Roof	30 days	27/02/10	28/03/10	12/04/10	11/05/10	44 days
133	**SUPERSTRUCTURAL - TOWER 4B GL 1/4-23/4**	179 days	16/11/09	13/05/10	30/12/09	12/06/10	30 days
134	1st storey slab	30 days	16/11/09	15/12/09	30/12/09	28/01/10	44 days
135	2nd storey slab	21 days	16/12/09	05/01/10	29/01/10	18/02/10	44 days
136	3rd storey slab	21 days	06/01/10	26/01/10	19/02/10	11/03/10	44 days
137	4th storey slab	21 days	27/01/10	16/02/10	12/03/10	01/04/10	44 days
138	5th storey slab	21 days	03/03/10	23/03/10	02/04/10	22/04/10	30 days
139	Attic level	21 days	24/03/10	13/04/10	23/04/10	13/05/10	30 days
140	Roof	30 days	14/04/10	13/05/10	14/05/10	12/06/10	30 days
141	**SUPERSTRUCTURAL - TOWER 5A GL 40/4-66/4**	183 days	04/03/10	02/09/10	04/03/10	20/09/10	18 days
142	Pile Cap	18 days	04/03/10	21/03/10	04/03/10	21/03/10	0 days
143	1st storey slab	30 days	22/03/10	20/04/10	22/03/10	20/04/10	0 days
144	2nd storey slab	21 days	21/04/10	11/05/10	21/04/10	11/05/10	0 days
145	3rd storey slab	21 days	12/05/10	01/06/10	12/05/10	01/06/10	0 days
146	4th storey slab	21 days	02/06/10	22/06/10	20/06/10	10/07/10	18 days
147	5th storey slab	21 days	23/06/10	13/07/10	11/07/10	31/07/10	18 days
148	Attic level	21 days	14/07/10	03/08/10	01/08/10	21/08/10	18 days
149	Roof	30 days	04/08/10	02/09/10	22/08/10	20/09/10	18 days
150							
151	**Mock UP Unit at Tower 2**	151 days?	15/12/09	14/05/10	20/12/09	31/05/10	17 days?
152	**Unit Type G1(#01-77)**	101 days	15/12/09	25/03/10	20/12/09	16/04/10	22 days
153	Ceiling Skimming	2 days	15/12/09	16/12/09	20/12/09	21/12/09	5 days
154	Brick/Dry Wall Partition Works	7 days	17/12/09	23/12/09	08/01/10	14/01/10	22 days
155	Door frame	5 days	31/12/09	04/01/10	22/01/10	26/01/10	22 days
156	Aluminum frames	5 days	05/01/10	09/01/10	29/01/10	02/02/10	24 days
157	M&E 1st fix	7 days	05/01/10	11/01/10	27/01/10	02/02/10	22 days
158	Internal Plastering	7 days	12/01/10	18/01/10	03/02/10	09/02/10	22 days
159	Painting 1st coat	5 days	19/01/10	23/01/10	10/02/10	14/02/10	22 days
160	Wet area water proofing	6 days	24/01/10	29/01/10	15/02/10	20/02/10	22 days
161	Wet area wall & floor finishes	7 days	30/01/10	05/02/10	21/02/10	27/02/10	22 days
162	False ceiling 1st fix	5 days	06/02/10	10/02/10	28/02/10	04/03/10	22 days
163	LR/DR/BR floor screed	2 days	30/01/10	31/01/10	10/03/10	11/03/10	39 days
164	Living/Dinning Floor finishes	7 days	18/02/10	24/02/10	12/03/10	18/03/10	22 days
165	Balcony Balustrade	4 days	11/02/10	14/02/10	15/03/10	18/03/10	32 days
166	Aluminum inner frame and Glazing works	2 days	25/02/10	26/02/10	19/03/10	20/03/10	22 days
167	Timber flooring	10 days	27/02/10	08/03/10	21/03/10	30/03/10	22 days
168	Door panels	5 days	30/01/10	03/02/10	20/03/10	24/03/10	49 days
169	Ironmongery	6 days	28/02/10	05/03/10	25/03/10	30/03/10	25 days
170	Wardrobe	3 days	09/03/10	11/03/10	31/03/10	02/04/10	22 days
171	Kitchen Cabinet	3 days	12/03/10	14/03/10	03/04/10	05/04/10	22 days
172	Kitchen Appliances	2 days	15/03/10	16/03/10	06/04/10	07/04/10	22 days
173	Vanity counter	2 days	17/03/10	18/03/10	10/04/10	11/04/10	24 days
174	Vanity cabinets	2 days	17/03/10	18/03/10	08/04/10	09/04/10	22 days
175	Mirror cabinets	2 days	19/03/10	20/03/10	12/04/10	13/04/10	24 days
176	Shower screen	1 day	21/03/10	21/03/10	14/04/10	14/04/10	24 days
177	Internal Painting final coat	2 days	17/03/10	18/03/10	13/04/10	14/04/10	27 days
178	Sanitary wares, fittings and accessories	2 days	19/03/10	20/03/10	10/04/10	11/04/10	22 days
179	Retractable clothes hangers	3 days	21/03/10	23/03/10	12/04/10	14/04/10	22 days
180	Cleaning up	3 days	21/03/10	23/03/10	12/04/10	14/04/10	22 days
181	Mock Up Unit Inspection	2 days	24/03/10	25/03/10	15/04/10	16/04/10	22 days
182	**Unit Type C2G(#01-76)**	110 days?	17/12/09	05/04/10	22/12/09	27/04/10	22 days?
183	Ceiling Skimming	2 days	17/12/09	18/12/09	22/12/09	23/12/09	5 days
184	Brick/Dry Wall Partition Works	5 days	24/12/09	28/12/09	26/01/10	30/01/10	33 days
185	Door frame	5 days	05/01/10	09/01/10	08/02/10	12/02/10	34 days
186	Aluminum frames	2 days	10/01/10	11/01/10	14/02/10	15/02/10	35 days
187	M&E 1st fix	3 days	10/01/10	12/01/10	13/02/10	15/02/10	34 days
188	Internal Plastering	5 days	13/01/10	17/01/10	16/02/10	20/02/10	34 days
189	Painting 1st coat	5 days	18/01/10	22/01/10	21/02/10	25/02/10	34 days
190	Wet area water proofing	6 days	23/01/10	28/01/10	26/02/10	03/03/10	34 days
191	Wet area wall & floor finishes	2 days	29/01/10	30/01/10	05/03/10	06/03/10	35 days

MEADOWS @ PEIRCE
MASTER CONSTRUCTION PROGRAM
REVISION 7(R)

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ID	Task Name	Duration	Start	Finish	Late Start	Late Finish	Finish Slack
192	False ceiling 1st fix	5 days	31/01/10	04/02/10	07/03/10	11/03/10	35 days
193	LR/DR/BR floor screed	2 days	29/01/10	30/01/10	09/03/10	10/03/10	39 days
194	Living/Dinning Floor finishes	5 days	05/02/10	09/02/10	11/03/10	15/03/10	34 days
195	Balcony Balustrade	4 days	05/02/10	08/02/10	12/03/10	15/03/10	35 days
196	Aluminum inner frame and Glazing works	2 days	10/02/10	11/02/10	16/03/10	17/03/10	34 days
197	Timber flooring	10 days	12/02/10	21/02/10	18/03/10	27/03/10	34 days
198	Door panels	5 days	29/01/10	02/02/10	23/03/10	27/03/10	53 days
199	Ironmongery	6 days	22/02/10	27/02/10	28/03/10	02/04/10	34 days
200	Wardrobe	3 days	28/02/10	02/03/10	03/04/10	05/04/10	34 days
201	Kitchen Cabinet	3 days	03/03/10	05/03/10	06/04/10	08/04/10	34 days
202	Kitchen Appliances	2 days	06/03/10	07/03/10	09/04/10	10/04/10	34 days
203	Vanity counter	2 days	08/03/10	09/03/10	11/04/10	12/04/10	34 days
204	Vanity cabinets	2 days	10/03/10	11/03/10	13/04/10	14/04/10	34 days
205	Mirror cabinets	2 days	12/03/10	13/03/10	15/04/10	16/04/10	34 days
206	Shower screen	1 day?	26/03/10	26/03/10	17/04/10	17/04/10	22 days?
207	Internal Painting final coat	1 day?	27/03/10	27/03/10	18/04/10	18/04/10	22 days?
208	Sanitary wares, fittings and accessories	2 days	28/03/10	29/03/10	19/04/10	20/04/10	22 days
209	Retractable clothes hangers	3 days	30/03/10	01/04/10	21/04/10	23/04/10	22 days
210	Cleaning up	2 days	02/04/10	03/04/10	24/04/10	25/04/10	22 days
211	Mock Up Unit Inspection	2 days	04/04/10	05/04/10	26/04/10	27/04/10	22 days
212	**Unit Type GM2(#01-75)**	114 days	19/12/09	11/04/10	24/12/09	03/05/10	22 days
213	Ceiling Skimming	2 days	19/12/09	20/12/09	24/12/09	25/12/09	5 days
214	Brick/Dry Wall Partition Works	5 days	29/12/09	02/01/10	31/01/10	04/02/10	33 days
215	Door frame	5 days	10/01/10	14/01/10	12/02/10	16/02/10	33 days
216	Aluminum frames	2 days	15/01/10	16/01/10	18/02/10	19/02/10	34 days
217	M&E 1st fix	3 days	15/01/10	17/01/10	17/02/10	19/02/10	33 days
218	Internal Plastering	5 days	18/01/10	22/01/10	20/02/10	24/02/10	33 days
219	Painting 1st coat	5 days	23/01/10	27/01/10	25/02/10	01/03/10	33 days
220	Wet area water proofing	6 days	28/01/10	02/02/10	02/03/10	07/03/10	33 days
221	Wet area wall & floor finishes	2 days	03/02/10	04/02/10	09/03/10	10/03/10	34 days
222	False ceiling 1st fix	5 days	05/02/10	09/02/10	11/03/10	15/03/10	34 days
223	LR/DR/BR floor screed	2 days	03/02/10	04/02/10	13/03/10	14/03/10	38 days
224	Living/Dinning Floor finishes	5 days	10/02/10	14/02/10	15/03/10	19/03/10	33 days
225	Balcony Balustrade	4 days	10/02/10	13/02/10	16/03/10	19/03/10	34 days
226	Aluminum inner frame and Glazing works	2 days	15/02/10	16/02/10	20/03/10	21/03/10	33 days
227	Timber flooring	10 days	17/02/10	26/02/10	22/03/10	31/03/10	33 days
228	Door panels	5 days	10/02/10	14/02/10	27/03/10	31/03/10	45 days
229	Ironmongery	6 days	27/02/10	04/03/10	01/04/10	06/04/10	33 days
230	Wardrobe	3 days	05/03/10	07/03/10	07/04/10	09/04/10	33 days
231	Kitchen Cabinet	3 days	08/03/10	10/03/10	10/04/10	12/04/10	33 days
232	Kitchen Appliances	2 days	11/03/10	12/03/10	13/04/10	14/04/10	33 days
233	Vanity counter	2 days	13/03/10	14/03/10	15/04/10	16/04/10	33 days
234	Vanity cabinets	2 days	15/03/10	16/03/10	17/04/10	18/04/10	33 days
235	Mirror cabinets	2 days	17/03/10	18/03/10	19/04/10	20/04/10	33 days
236	Shower screen	2 days	19/03/10	20/03/10	21/04/10	22/04/10	33 days
237	Internal Painting final coat	3 days	21/03/10	23/03/10	23/04/10	25/04/10	33 days
238	Sanitary wares, fittings and accessories	2 days	24/03/10	25/03/10	26/04/10	27/04/10	33 days
239	Retractable clothes hangers	2 days	06/04/10	07/04/10	28/04/10	29/04/10	22 days
240	Cleaning up	2 days	08/04/10	09/04/10	30/04/10	01/05/10	22 days
241	Mock Up Unit Inspection	2 days	10/04/10	11/04/10	02/05/10	03/05/10	22 days
242	**Temporary TOP application for Tower 2 Mock Up(Optional)**	73 days	26/02/10	09/05/10	27/03/10	31/05/10	22 days
243	Fire Protection Provisions	45 days	26/02/10	11/04/10	27/03/10	10/05/10	29 days
244	Lightning Protection System	30 days	13/03/10	11/04/10	11/04/10	10/05/10	29 days
245	M&E & Arch RI Inspections	7 days	19/04/10	25/04/10	11/05/10	17/05/10	22 days
246	Temporary TOP application & approval	14 days	26/04/10	09/05/10	18/05/10	31/05/10	22 days
247	**Unit Type PH1a(#05-75)**	121 days?	14/01/10	14/05/10	31/01/10	31/05/10	17 days?
248	Ceiling Skimming	3 days	14/01/10	16/01/10	31/01/10	02/02/10	17 days
249	Brick/Dry Wall Partition Works	10 days	17/01/10	26/01/10	03/02/10	12/02/10	17 days
250	Door frame	6 days	03/02/10	08/02/10	20/02/10	25/02/10	17 days
251	Aluminum frames	4 days	09/02/10	12/02/10	04/03/10	07/03/10	23 days
252	M&E 1st fix	10 days	09/02/10	18/02/10	26/02/10	07/03/10	17 days
253	Internal Plastering	7 days	19/02/10	25/02/10	08/03/10	14/03/10	17 days
254	Painting 1st coat	5 days	26/02/10	02/03/10	15/03/10	19/03/10	17 days
255	Wet area water proofing	6 days	03/03/10	08/03/10	20/03/10	25/03/10	17 days

MEADOWS @ PEIRCE
MASTER CONSTRUCTION PROGRAM
REVISION 7(R)

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256	Wet area wall & floor finishes	9 days	09/03/10	17/03/10	26/03/10	03/04/10	17 days
257	False ceiling 1st fix	5 days	18/03/10	22/03/10	04/04/10	08/04/10	17 days
258	LR/DR/BR floor screed	2 days	09/03/10	10/03/10	14/04/10	15/04/10	36 days
259	Living/Dinning Floor finishes	8 days	30/03/10	06/04/10	16/04/10	23/04/10	17 days
260	Metal roof	14 days	07/04/10	20/04/10	27/04/10	10/05/10	20 days
261	Balcony Balustrade	4 days	23/03/10	26/03/10	20/04/10	23/04/10	28 days
262	Aluminum inner frame and Glazing works	5 days	07/04/10	11/04/10	24/04/10	28/04/10	17 days
263	Timber flooring	12 days	12/04/10	23/04/10	29/04/10	10/05/10	17 days
264	Door panels	5 days	09/03/10	13/03/10	30/04/10	04/05/10	52 days
265	Ironmongery	6 days	10/04/10	15/04/10	05/05/10	10/05/10	25 days
266	Wardrobe	4 days	24/04/10	27/04/10	11/05/10	14/05/10	17 days
267	Kitchen Cabinet	6 days	28/04/10	03/05/10	15/05/10	20/05/10	17 days
268	Kitchen Appliances	2 days	04/05/10	05/05/10	21/05/10	22/05/10	17 days
269	Vanity counter	2 days	06/05/10	07/05/10	24/05/10	25/05/10	18 days
270	Vanity cabinets	2 days	06/05/10	07/05/10	23/05/10	24/05/10	17 days
271	Mirror cabinets	2 days	08/05/10	09/05/10	26/05/10	27/05/10	18 days
272	Shower screen	2 days	10/05/10	11/05/10	28/05/10	29/05/10	18 days
273	Internal Painting final coat	3 days	06/05/10	08/05/10	27/05/10	29/05/10	21 days
274	Sanitary wares, fittings and accessories	2 days	08/05/10	09/05/10	25/05/10	26/05/10	17 days
275	Installation of Jacuzzi for Penthouse units	1 day?	10/05/10	10/05/10	27/05/10	27/05/10	17 days?
276	Retractable clothes hangers	2 days	11/05/10	12/05/10	28/05/10	29/05/10	17 days
277	Cleaning up	2 days	10/05/10	11/05/10	28/05/10	29/05/10	18 days
278	Mock Up Unit Inspection	2 days	13/05/10	14/05/10	30/05/10	31/05/10	17 days
279							
280	**Mock UP Unit at Tower 3B**	**98 days?**	**18/01/10**	**25/04/10**	**23/01/10**	**31/05/10**	**36 days?**
281	**Unit Type C1(#02-55)**	**86 days**	**18/01/10**	**13/04/10**	**23/01/10**	**31/05/10**	**48 days**
282	Ceiling Skimming	2 days	18/01/10	19/01/10	23/01/10	24/01/10	5 days
283	Brick/Dry Wall Partition Works	5 days	20/01/10	24/01/10	25/01/10	29/01/10	5 days
284	Door frame	5 days	01/02/10	05/02/10	21/03/10	25/03/10	48 days
285	Aluminum frames	2 days	06/02/10	07/02/10	27/03/10	28/03/10	49 days
286	M&E 1st fix	3 days	06/02/10	08/02/10	26/03/10	28/03/10	48 days
287	Internal Plastering	5 days	09/02/10	13/02/10	29/03/10	02/04/10	48 days
288	Painting 1st coat	5 days	14/02/10	18/02/10	03/04/10	07/04/10	48 days
289	Wet area water proofing	6 days	19/02/10	24/02/10	08/04/10	13/04/10	48 days
290	Wet area wall & floor finishes	2 days	25/02/10	26/02/10	14/04/10	15/04/10	48 days
291	False ceiling 1st fix	5 days	27/02/10	03/03/10	16/04/10	20/04/10	48 days
292	LR/DR/BR floor screed	2 days	25/02/10	26/02/10	26/04/10	27/04/10	60 days
293	Living/Dinning Floor finishes	5 days	11/03/10	15/03/10	28/04/10	02/05/10	48 days
294	Balcony Balustrade	4 days	04/03/10	07/03/10	29/04/10	02/05/10	56 days
295	Aluminum inner frame and Glazing works	2 days	16/03/10	17/03/10	03/05/10	04/05/10	48 days
296	Timber flooring	10 days	18/03/10	27/03/10	05/05/10	14/05/10	48 days
297	Door panels	5 days	25/02/10	01/03/10	04/05/10	08/05/10	68 days
298	Ironmongery	6 days	19/03/10	24/03/10	09/05/10	14/05/10	51 days
299	Wardrobe	3 days	28/03/10	30/03/10	15/05/10	17/05/10	48 days
300	Kitchen Cabinet	3 days	31/03/10	02/04/10	18/05/10	20/05/10	48 days
301	Kitchen Appliances	2 days	03/04/10	04/04/10	21/05/10	22/05/10	48 days
302	Vanity counter	2 days	05/04/10	06/04/10	25/05/10	26/05/10	50 days
303	Vanity cabinets	2 days	05/04/10	06/04/10	23/05/10	24/05/10	48 days
304	Mirror cabinets	2 days	07/04/10	08/04/10	27/05/10	28/05/10	50 days
305	Shower screen	1 day	09/04/10	09/04/10	29/05/10	29/05/10	50 days
306	Internal Painting final coat	2 days	05/04/10	06/04/10	28/05/10	29/05/10	53 days
307	Sanitary wares, fittings and accessories	2 days	07/04/10	08/04/10	25/05/10	26/05/10	48 days
308	Retractable clothes hangers	3 days	09/04/10	11/04/10	27/05/10	29/05/10	48 days
309	Cleaning up	3 days	09/04/10	11/04/10	27/05/10	29/05/10	48 days
310	Mock Up Unit Inspection	2 days	12/04/10	13/04/10	30/05/10	31/05/10	48 days
311	**Unit Type D3b(#02-51)**	**96 days?**	**20/01/10**	**25/04/10**	**28/01/10**	**30/04/10**	**5 days?**
312	Ceiling Skimming	2 days	20/01/10	21/01/10	28/01/10	29/01/10	8 days
313	Brick/Dry Wall Partition Works	5 days	25/01/10	29/01/10	30/01/10	03/02/10	5 days
314	Door frame	5 days	06/02/10	10/02/10	11/02/10	15/02/10	5 days
315	Aluminum frames	2 days	11/02/10	12/02/10	17/02/10	18/02/10	6 days
316	M&E 1st fix	3 days	11/02/10	13/02/10	16/02/10	18/02/10	5 days
317	Internal Plastering	5 days	14/02/10	18/02/10	19/02/10	23/02/10	5 days
318	Painting 1st coat	5 days	19/02/10	23/02/10	24/02/10	28/02/10	5 days
319	Wet area water proofing	6 days	24/02/10	01/03/10	01/03/10	06/03/10	5 days

MEADOWS @ PEIRCE
MASTER CONSTRUCTION PROGRAM
REVISION 7(R)

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APPROVED BY: LEONG CHEE KENG
DATE: 23 OCTOBER 2009

ID	Task Name	Duration	Start	Finish	Late Start	Late Finish	Finish Slack
320	Wet area wall & floor finishes	2 days	02/03/10	03/03/10	08/03/10	09/03/10	6 days
321	False ceiling 1st fix	5 days	04/03/10	08/03/10	10/03/10	14/03/10	6 days
322	LR/DR/BR floor screed	2 days	02/03/10	03/03/10	12/03/10	13/03/10	10 days
323	Living/Dinning Floor finishes	5 days	09/03/10	13/03/10	14/03/10	18/03/10	5 days
324	Balcony Balustrade	4 days	09/03/10	12/03/10	15/03/10	18/03/10	6 days
325	Aluminum inner frame and Glazing works	2 days	14/03/10	15/03/10	19/03/10	20/03/10	5 days
326	Timber flooring	10 days	16/03/10	25/03/10	21/03/10	30/03/10	5 days
327	Door panels	5 days	02/03/10	06/03/10	26/03/10	30/03/10	24 days
328	Ironmongery	6 days	26/03/10	31/03/10	31/03/10	05/04/10	5 days
329	Wardrobe	3 days	01/04/10	03/04/10	06/04/10	08/04/10	5 days
330	Kitchen Cabinet	3 days	04/04/10	06/04/10	09/04/10	11/04/10	5 days
331	Kitchen Appliances	2 days	07/04/10	08/04/10	12/04/10	13/04/10	5 days
332	Vanity counter	2 days	09/04/10	10/04/10	14/04/10	15/04/10	5 days
333	Vanity cabinets	2 days	11/04/10	12/04/10	16/04/10	17/04/10	5 days
334	Mirror cabinets	2 days	13/04/10	14/04/10	18/04/10	19/04/10	5 days
335	Shower screen	1 day?	15/04/10	15/04/10	20/04/10	20/04/10	5 days?
336	Internal Painting final coat	1 day?	16/04/10	16/04/10	21/04/10	21/04/10	5 days?
337	Sanitary wares, fittings and accessories	2 days	17/04/10	18/04/10	22/04/10	23/04/10	5 days
338	Retractable clothes hangers	3 days	19/04/10	21/04/10	24/04/10	26/04/10	5 days
339	Cleaning up	2 days	22/04/10	23/04/10	27/04/10	28/04/10	5 days
340	Mock Up Unit Inspection	2 days	24/04/10	25/04/10	29/04/10	30/04/10	5 days
341							
342	**Mock Up unit at Tower 4B**	**93 days?**	**08/02/10**	**09/05/10**	**28/02/10**	**31/05/10**	**22 days?**
343	**Unit Type D1a (#02-13)**	**93 days?**	**08/02/10**	**09/05/10**	**28/02/10**	**31/05/10**	**22 days?**
344	Ceiling Skimming	2 days	06/02/10	07/02/10	28/02/10	01/03/10	22 days
345	Brick/Dry Wall Partition Works	5 days	08/02/10	12/02/10	02/03/10	06/03/10	22 days
346	Door frame	5 days	20/02/10	24/02/10	14/03/10	18/03/10	22 days
347	Aluminum frames	2 days	25/02/10	26/02/10	20/03/10	21/03/10	23 days
348	M&E 1st fix	3 days	25/02/10	27/02/10	19/03/10	21/03/10	22 days
349	Internal Plastering	5 days	28/02/10	04/03/10	22/03/10	26/03/10	22 days
350	Painting 1st coat	5 days	05/03/10	09/03/10	27/03/10	31/03/10	22 days
351	Wet area water proofing	6 days	10/03/10	15/03/10	01/04/10	06/04/10	22 days
352	Wet area wall & floor finishes	2 days	16/03/10	17/03/10	08/04/10	09/04/10	23 days
353	False ceiling 1st fix	5 days	18/03/10	22/03/10	10/04/10	14/04/10	23 days
354	LR/DR/BR floor screed	2 days	16/03/10	17/03/10	12/04/10	13/04/10	27 days
355	Living/Dinning Floor finishes	5 days	23/03/10	27/03/10	14/04/10	18/04/10	22 days
356	Balcony Balustrade	4 days	23/03/10	26/03/10	15/04/10	18/04/10	23 days
357	Aluminum inner frame and Glazing works	2 days	28/03/10	29/03/10	19/04/10	20/04/10	22 days
358	Timber flooring	10 days	30/03/10	08/04/10	21/04/10	30/04/10	22 days
359	Door panels	5 days	16/03/10	20/03/10	26/04/10	30/04/10	41 days
360	Ironmongery	6 days	09/04/10	14/04/10	01/05/10	06/05/10	22 days
361	Wardrobe	3 days	15/04/10	17/04/10	07/05/10	09/05/10	22 days
362	Kitchen Cabinet	3 days	18/04/10	20/04/10	10/05/10	12/05/10	22 days
363	Kitchen Appliances	2 days	21/04/10	22/04/10	13/05/10	14/05/10	22 days
364	Vanity counter	2 days	23/04/10	24/04/10	15/05/10	16/05/10	22 days
365	Vanity cabinets	2 days	25/04/10	26/04/10	17/05/10	18/05/10	22 days
366	Mirror cabinets	2 days	27/04/10	28/04/10	19/05/10	20/05/10	22 days
367	Shower screen	1 day?	29/04/10	29/04/10	21/05/10	21/05/10	22 days?
368	Internal Painting final coat	1 day?	30/04/10	30/04/10	22/05/10	22/05/10	22 days?
369	Sanitary wares, fittings and accessories	2 days	01/05/10	02/05/10	23/05/10	24/05/10	22 days
370	Retractable clothes hangers	3 days	03/05/10	05/05/10	25/05/10	27/05/10	22 days
371	Cleaning up	2 days	06/05/10	07/05/10	28/05/10	29/05/10	22 days
372	Mock Up Unit Inspection	2 days	08/05/10	09/05/10	30/05/10	31/05/10	22 days
373							
374	**Mock UP Unit at Tower 1**	**98 days?**	**01/05/10**	**06/08/10**	**20/05/10**	**25/08/10**	**19 days?**
375	**Unit Type B(#02-79)**	**86 days**	**01/05/10**	**25/07/10**	**20/05/10**	**14/08/10**	**20 days**
376	Ceiling Skimming	2 days	01/05/10	02/05/10	20/05/10	21/05/10	19 days
377	Brick/Dry Wall Partition Works	5 days	03/05/10	07/05/10	22/05/10	26/05/10	19 days
378	Door frame	5 days	15/05/10	19/05/10	04/06/10	08/06/10	20 days
379	Aluminum frames	2 days	20/05/10	21/05/10	10/06/10	11/06/10	21 days
380	M&E 1st fix	3 days	20/05/10	22/05/10	09/06/10	11/06/10	20 days
381	Internal Plastering	5 days	23/05/10	27/05/10	12/06/10	16/06/10	20 days
382	Painting 1st coat	5 days	28/05/10	01/06/10	17/06/10	21/06/10	20 days
383	Wet area water proofing	6 days	02/06/10	07/06/10	22/06/10	27/06/10	20 days

MEADOWS @ PEIRCE
MASTER CONSTRUCTION PROGRAM
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ID	Task Name	Duration	Start	Finish	Late Start	Late Finish	Finish Slack
384	Wet area wall & floor finishes	2 days	08/06/10	09/06/10	28/06/10	29/06/10	20 days
385	False ceiling 1st fix	5 days	10/06/10	14/06/10	30/06/10	04/07/10	20 days
386	LR/DR/BR floor screed	2 days	08/06/10	09/06/10	10/07/10	11/07/10	32 days
387	Living/Dinning Floor finishes	5 days	22/06/10	26/06/10	12/07/10	16/07/10	20 days
388	Balcony Balustrade	4 days	15/06/10	18/06/10	13/07/10	16/07/10	28 days
389	Aluminum inner frame and Glazing works	2 days	27/06/10	28/06/10	17/07/10	18/07/10	20 days
390	Timber flooring	10 days	29/06/10	08/07/10	19/07/10	28/07/10	20 days
391	Door panels	5 days	08/06/10	12/06/10	18/07/10	22/07/10	40 days
392	Ironmongery	6 days	30/06/10	05/07/10	23/07/10	28/07/10	23 days
393	Wardrobe	3 days	09/07/10	11/07/10	29/07/10	31/07/10	20 days
394	Kitchen Cabinet	3 days	12/07/10	14/07/10	01/08/10	03/08/10	20 days
395	Kitchen Appliances	2 days	15/07/10	16/07/10	04/08/10	05/08/10	20 days
396	Vanity counter	2 days	17/07/10	18/07/10	08/08/10	09/08/10	22 days
397	Vanity cabinets	2 days	17/07/10	18/07/10	06/08/10	07/08/10	20 days
398	Mirror cabinets	2 days	19/07/10	20/07/10	10/08/10	11/08/10	22 days
399	Shower screen	1 day	21/07/10	21/07/10	12/08/10	12/08/10	22 days
400	Internal Painting final coat	2 days	17/07/10	18/07/10	11/08/10	12/08/10	25 days
401	Sanitary wares, fittings and accessories	2 days	19/07/10	20/07/10	08/08/10	09/08/10	20 days
402	Retractable clothes hangers	3 days	21/07/10	23/07/10	10/08/10	12/08/10	20 days
403	Cleaning up	3 days	21/07/10	23/07/10	10/08/10	12/08/10	20 days
404	Mock Up Unit Inspection	2 days	24/07/10	25/07/10	13/08/10	14/08/10	20 days
405	Unit Type E(#02-78)	96 days?	03/05/10	06/08/10	25/05/10	25/08/10	19 days?
406	Ceiling Skimming	2 days	03/05/10	04/05/10	25/05/10	26/05/10	22 days
407	Brick/Dry Wall Partition Works	5 days	08/05/10	12/05/10	27/05/10	31/05/10	19 days
408	Door frame	5 days	20/05/10	24/05/10	08/06/10	12/06/10	19 days
409	Aluminum frames	2 days	25/05/10	26/05/10	14/06/10	15/06/10	20 days
410	M&E 1st fix	3 days	25/05/10	27/05/10	13/06/10	15/06/10	19 days
411	Internal Plastering	5 days	28/05/10	01/06/10	16/06/10	20/06/10	19 days
412	Painting 1st coat	5 days	02/06/10	06/06/10	21/06/10	25/06/10	19 days
413	Wet area water proofing	6 days	07/06/10	12/06/10	26/06/10	01/07/10	19 days
414	Wet area wall & floor finishes	2 days	13/06/10	14/06/10	03/07/10	04/07/10	20 days
415	False ceiling 1st fix	5 days	15/06/10	19/06/10	05/07/10	09/07/10	20 days
416	LR/DR/BR floor screed	2 days	13/06/10	14/06/10	07/07/10	08/07/10	24 days
417	Living/Dinning Floor finishes	5 days	20/06/10	24/06/10	09/07/10	13/07/10	19 days
418	Balcony Balustrade	4 days	20/06/10	23/06/10	10/07/10	13/07/10	20 days
419	Aluminum inner frame and Glazing works	2 days	25/06/10	26/06/10	14/07/10	15/07/10	19 days
420	Timber flooring	10 days	27/06/10	06/07/10	16/07/10	25/07/10	19 days
421	Door panels	5 days	13/06/10	17/06/10	21/07/10	25/07/10	38 days
422	Ironmongery	6 days	07/07/10	12/07/10	26/07/10	31/07/10	19 days
423	Wardrobe	3 days	13/07/10	15/07/10	01/08/10	03/08/10	19 days
424	Kitchen Cabinet	3 days	16/07/10	18/07/10	04/08/10	06/08/10	19 days
425	Kitchen Appliances	2 days	19/07/10	20/07/10	07/08/10	08/08/10	19 days
426	Vanity counter	2 days	21/07/10	22/07/10	09/08/10	10/08/10	19 days
427	Vanity cabinets	2 days	23/07/10	24/07/10	11/08/10	12/08/10	19 days
428	Mirror cabinets	2 days	25/07/10	26/07/10	13/08/10	14/08/10	19 days
429	Shower screen	1 day?	27/07/10	27/07/10	15/08/10	15/08/10	19 days?
430	Internal Painting final coat	1 day?	28/07/10	28/07/10	16/08/10	16/08/10	19 days?
431	Sanitary wares, fittings and accessories	2 days	29/07/10	30/07/10	17/08/10	18/08/10	19 days
432	Retractable clothes hangers	3 days	31/07/10	02/08/10	19/08/10	21/08/10	19 days
433	Cleaning up	2 days	03/08/10	04/08/10	22/08/10	23/08/10	19 days
434	Mock Up Unit Inspection	2 days	05/08/10	06/08/10	24/08/10	25/08/10	19 days
435							
436	ARCHITECTURAL WORKS	608 days	13/10/09	12/06/11	31/01/10	12/06/11	0 days
437	MAIN BUILDING WORKS TOWER 2	379 days	13/10/09	26/10/10	09/02/10	04/04/11	160 days
438	Ceiling Skimming	80 days	13/10/09	31/12/09	09/02/10	29/04/10	119 days
439	Brick/Dry Wall Partition works	80 days	03/11/09	21/01/10	02/03/10	20/05/10	119 days
440	Door frame	80 days	24/11/09	11/02/10	23/03/10	10/06/10	119 days
441	Aluminum frames	80 days	01/12/09	18/02/10	30/03/10	17/06/10	119 days
442	M&E 1st fix	80 days	24/11/09	11/02/10	26/03/10	13/06/10	122 days
443	Internal Plastering	80 days	15/12/09	04/03/10	10/06/10	28/08/10	177 days
444	Painting 1st coat	80 days	05/01/10	25/03/10	11/07/10	28/09/10	187 days
445	Wet area water proofing	80 days	29/12/09	18/03/10	30/04/10	18/07/10	122 days
446	Wet area wall & floor finishes	80 days	19/01/10	08/04/10	21/05/10	08/08/10	122 days
447	False ceiling 1st fix	80 days	19/02/10	09/05/10	18/06/10	05/09/10	119 days

MEADOWS @ PEIRCE
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ID	Task Name	Duration	Start	Finish	Late Start	Late Finish	Finish Slack
448	LR/DR/BR floor screed	80 days	12/03/10	30/05/10	19/08/10	06/11/10	160 days
449	Living/Dinning Floor finishes	60 days	22/04/10	20/06/10	29/09/10	27/11/10	160 days
450	Build up roof waterproofing	35 days	05/03/10	08/04/10	29/06/10	02/10/10	177 days
451	Balcony Balustrade	80 days	08/06/10	26/08/10	02/12/10	19/02/11	177 days
452	GMS railing for staircase	28 days	08/06/10	05/07/10	05/12/10	01/01/11	180 days
453	Metal Roof	60 days	09/04/10	07/06/10	03/10/10	01/12/10	177 days
454	Floor and wall tile finishes to other areas	21 days	31/05/10	20/06/10	07/11/10	27/11/10	160 days
455	External Plastering	75 days	21/04/10	04/07/10	28/09/10	11/12/10	160 days
456	External Painting	45 days	11/06/10	25/07/10	18/11/10	01/01/11	160 days
457	Remove External scaffoldings	14 days	26/07/10	08/08/10	02/01/11	15/01/11	160 days
458	Aluminum inner frame and Glazing works	28 days	26/07/10	22/08/10	02/01/11	29/01/11	160 days
459	Timber flooring	80 days	04/07/10	21/09/10	11/12/10	28/02/11	160 days
460	Door panels	30 days	13/09/10	12/10/10	20/02/11	21/03/11	160 days
461	Ironmongery	21 days	22/09/10	12/10/10	01/03/11	21/03/11	160 days
462	Wardrobe	90 days	15/07/10	12/10/10	22/12/10	21/03/11	160 days
463	Kitchen Cabinet	90 days	06/04/10	04/07/10	07/11/10	04/02/11	215 days
464	Kitchen Appliances	21 days	29/07/10	18/08/10	01/03/11	21/03/11	215 days
465	Vanity counter	30 days	19/08/10	18/07/10	23/01/11	21/02/11	218 days
466	Vanity cabinets	30 days	19/06/10	18/07/10	23/01/11	21/02/11	218 days
467	Mirror cabinets	21 days	28/06/10	18/07/10	01/02/11	21/02/11	218 days
468	Shower screen	21 days	28/06/10	18/07/10	01/02/11	21/02/11	218 days
469	Internal Painting final coat	21 days	12/07/10	01/08/10	22/02/11	14/03/11	225 days
470	Sanitary wares, fittings and accessories	21 days	19/07/10	08/08/10	22/02/11	14/03/11	218 days
471	Installation of Jacuzzi for Penthouse units	7 days	09/08/10	15/08/10	15/03/11	21/03/11	218 days
472	Retractable clothes hangers	14 days	26/07/10	08/08/10	08/03/11	21/03/11	225 days
473	Signage	14 days	26/07/10	08/08/10	08/03/11	21/03/11	225 days
474	Cleaning up	14 days	13/10/10	26/10/10	22/03/11	04/04/11	160 days
475	**MAIN BUILDING WORKS TOWER 3A GL9/3 to 27/3**	**383 days**	**03/11/09**	**20/11/10**	**01/04/10**	**18/04/11**	**149 days**
476	Ceiling Skimming	80 days	03/11/09	21/01/10	01/04/10	19/06/10	149 days
477	Brick/Dry Wall Partition works	80 days	24/11/09	11/02/10	22/04/10	10/07/10	149 days
478	Door frame	80 days	15/12/09	04/03/10	31/05/10	18/08/10	167 days
479	Aluminum frames	80 days	22/12/09	11/03/10	07/06/10	25/08/10	167 days
480	M&E 1st fix	80 days	15/12/09	04/03/10	13/05/10	31/07/10	149 days
481	Internal Plastering	80 days	05/01/10	25/03/10	24/06/10	11/09/10	170 days
482	Painting 1st coat	80 days	26/01/10	15/04/10	18/07/10	05/10/10	173 days
483	Wet area water proofing	80 days	19/01/10	08/04/10	17/06/10	04/09/10	149 days
484	Wet area wall & floor finishes	80 days	09/02/10	29/04/10	08/07/10	25/09/10	149 days
485	False ceiling 1st fix	80 days	09/03/10	27/05/10	05/08/10	23/10/10	149 days
486	LR/DR/BR floor screed	80 days	30/03/10	17/06/10	26/08/10	13/11/10	149 days
487	Living/Dinning Floor finishes	60 days	10/05/10	08/07/10	06/10/10	04/12/10	149 days
488	Build up roof waterproofing	35 days	26/03/10	29/04/10	12/09/10	16/10/10	170 days
489	Balcony Balustrade	80 days	29/06/10	16/09/10	16/12/10	05/03/11	170 days
490	GMS railing for staircase	28 days	29/06/10	26/07/10	19/12/10	15/01/11	173 days
491	Metal Roof	60 days	30/04/10	28/06/10	17/10/10	15/12/10	170 days
492	Floor and wall tile finishes to other areas	21 days	24/07/10	13/08/10	26/12/10	15/01/11	155 days
493	External Plastering	75 days	16/05/10	29/07/10	12/10/10	25/12/10	149 days
494	External Painting	45 days	06/07/10	19/08/10	02/12/10	15/01/11	149 days
495	Remove External scaffoldings	14 days	20/08/10	02/09/10	16/01/11	29/01/11	149 days
496	Aluminum inner frame and Glazing works	28 days	20/08/10	16/09/10	16/01/11	12/02/11	149 days
497	Timber flooring	80 days	29/07/10	16/10/10	25/12/10	14/03/11	149 days
498	Door panels	30 days	06/10/10	06/11/10	06/03/11	04/04/11	149 days
499	Ironmongery	21 days	17/10/10	06/11/10	15/03/11	04/04/11	149 days
500	Wardrobe	90 days	09/08/10	06/11/10	05/01/11	04/04/11	149 days
501	Kitchen Cabinet	90 days	24/05/10	21/08/10	21/11/10	18/02/11	181 days
502	Kitchen Appliances	21 days	15/09/10	05/10/10	15/03/11	04/04/11	181 days
503	Vanity counter	30 days	06/08/10	04/09/10	06/02/11	07/03/11	184 days
504	Vanity cabinets	30 days	06/08/10	04/09/10	06/02/11	07/03/11	184 days
505	Mirror cabinets	21 days	15/08/10	04/09/10	08/03/11	28/03/11	205 days
506	Shower screen	21 days	15/08/10	04/09/10	15/02/11	07/03/11	184 days
507	Internal Painting final coat	21 days	29/08/10	18/09/10	08/03/11	28/03/11	191 days
508	Sanitary wares, fittings and accessories	21 days	05/09/10	25/09/10	08/03/11	28/03/11	184 days
509	Installation of Jacuzzi for Penthouse units	7 days	26/09/10	02/10/10	29/03/11	04/04/11	184 days
510	Retractable clothes hangers	14 days	12/09/10	25/09/10	22/03/11	04/04/11	191 days
511	Signage	14 days	05/09/10	18/09/10	22/03/11	04/04/11	198 days

MEADOWS @ PEIRCE
MASTER CONSTRUCTION PROGRAM
REVISION 7(R)

PREPARED BY: VOON KIM LOON
APPROVED BY: LEONG CHEE KENG
DATE: 23 OCTOBER 2009

ID	Task Name	Duration	Start	Finish	Late Start	Late Finish	Finish Slack
512	Cleaning up	14 days	07/11/10	20/11/10	05/04/11	18/04/11	149 days
513	**MAIN BUILDING WORKS TOWER 5B GL 66/4-88/4**	**383 days**	**21/12/09**	**07/01/11**	**31/01/10**	**17/02/11**	**41 days**
514	Ceiling Skimming	80 days	21/12/09	10/03/10	31/01/10	20/04/10	41 days
515	Brick/Dry Wall Partition works	80 days	11/01/10	31/03/10	21/02/10	11/05/10	41 days
516	Door frame	80 days	01/02/10	21/04/10	01/04/10	19/06/10	59 days
517	Aluminum frames	80 days	08/02/10	28/04/10	08/04/10	26/06/10	59 days
518	M&E 1st fix	80 days	01/02/10	21/04/10	14/03/10	01/06/10	41 days
519	Internal Plastering	80 days	22/02/10	12/05/10	25/04/10	13/07/10	62 days
520	Painting 1st coat	80 days	15/03/10	02/06/10	19/05/10	06/08/10	65 days
521	Wet area water proofing	80 days	08/03/10	26/05/10	18/04/10	06/07/10	41 days
522	Wet area wall & floor finishes	80 days	29/03/10	16/06/10	09/05/10	27/07/10	41 days
523	False ceiling 1st fix	80 days	26/04/10	14/07/10	06/06/10	24/08/10	41 days
524	LR/DR/BR floor screed	80 days	17/05/10	04/08/10	27/06/10	14/09/10	41 days
525	Living/Dinning Floor finishes	60 days	27/06/10	25/08/10	07/08/10	05/10/10	41 days
526	Build up roof waterproofing	35 days	13/05/10	16/06/10	14/07/10	17/08/10	62 days
527	Balcony Balustrade	80 days	16/08/10	03/11/10	17/10/10	04/01/11	62 days
528	GMS railing for staircase	28 days	16/08/10	12/09/10	20/10/10	16/11/10	65 days
529	Metal Roof	60 days	17/06/10	15/08/10	18/08/10	16/10/10	62 days
530	Floor and wall tile finishes to other areas	21 days	10/09/10	30/09/10	27/10/10	16/11/10	47 days
531	External Plastering	75 days	03/07/10	15/09/10	13/08/10	26/10/10	41 days
532	External Painting	45 days	23/08/10	06/10/10	03/10/10	16/11/10	41 days
533	Remove External scaffoldings	14 days	07/10/10	20/10/10	17/11/10	30/11/10	41 days
534	Aluminum inner frame and Glazing works	28 days	07/10/10	03/11/10	17/11/10	14/12/10	41 days
535	Timber flooring	80 days	15/09/10	03/12/10	26/10/10	13/01/11	41 days
536	Door panels	30 days	25/11/10	24/12/10	05/01/11	03/02/11	41 days
537	Ironmongery	21 days	04/12/10	24/12/10	14/01/11	03/02/11	41 days
538	Wardrobe	90 days	26/09/10	24/12/10	06/11/10	03/02/11	41 days
539	Kitchen Cabinet	90 days	11/07/10	08/10/10	22/09/10	20/12/10	73 days
540	Kitchen Appliances	21 days	02/11/10	22/11/10	14/01/11	03/02/11	73 days
541	Vanity counter	30 days	23/09/10	22/10/10	08/12/10	06/01/11	76 days
542	Vanity cabinets	30 days	23/09/10	22/10/10	08/12/10	06/01/11	76 days
543	Mirror cabinets	21 days	02/10/10	22/10/10	17/12/10	06/01/11	76 days
544	Shower screen	21 days	02/10/10	22/10/10	17/12/10	06/01/11	76 days
545	Internal Painting final coat	21 days	16/10/10	05/11/10	07/01/11	27/01/11	83 days
546	Sanitary wares, fittings and accessories	21 days	23/10/10	12/11/10	07/01/11	27/01/11	76 days
547	Installation of Jacuzzi for Penthouse units	7 days	13/11/10	19/11/10	28/01/11	03/02/11	76 days
548	Retractable clothes hangers	14 days	30/10/10	12/11/10	21/01/11	03/02/11	83 days
549	Signage	14 days	30/10/10	12/11/10	21/01/11	03/02/11	83 days
550	Cleaning up	14 days	25/12/10	07/01/11	04/02/11	17/02/11	41 days
551	**MAIN BUILDING WORKS TOWER 4A GL 23/4-38/4**	**377 days**	**02/01/10**	**13/01/11**	**20/02/10**	**03/03/11**	**49 days**
552	Ceiling Skimming	80 days	02/01/10	22/03/10	20/02/10	10/05/10	49 days
553	Brick/Dry Wall Partition works	80 days	23/01/10	12/04/10	13/03/10	31/05/10	49 days
554	Door frame	80 days	13/02/10	03/05/10	21/04/10	09/07/10	67 days
555	Aluminum frames	80 days	20/02/10	10/05/10	28/04/10	16/07/10	67 days
556	M&E 1st fix	80 days	13/02/10	03/05/10	03/04/10	21/06/10	49 days
557	Internal Plastering	80 days	06/03/10	24/05/10	09/05/10	27/07/10	64 days
558	Painting 1st coat	80 days	27/03/10	14/06/10	08/06/10	26/08/10	73 days
559	Wet area water proofing	80 days	20/03/10	07/06/10	08/05/10	26/07/10	49 days
560	Wet area wall & floor finishes	80 days	10/04/10	28/06/10	29/05/10	16/08/10	49 days
561	False ceiling 1st fix	80 days	08/05/10	26/07/10	26/06/10	13/09/10	49 days
562	LR/DR/BR floor screed	80 days	29/05/10	16/08/10	17/07/10	04/10/10	49 days
563	Living/Dinning Floor finishes	60 days	09/07/10	06/09/10	27/08/10	25/10/10	49 days
564	Build up roof waterproofing	35 days	25/05/10	28/06/10	28/07/10	31/08/10	64 days
565	Balcony Balustrade	80 days	28/08/10	15/11/10	31/10/10	18/01/11	64 days
566	GMS railing for staircase	28 days	28/08/10	24/09/10	03/11/10	30/11/10	67 days
567	Metal Roof	60 days	29/06/10	27/08/10	01/09/10	30/10/10	64 days
568	Floor and wall tile finishes to other areas	21 days	22/09/10	12/10/10	10/11/10	30/11/10	49 days
569	External Plastering	75 days	08/07/10	20/09/10	27/08/10	09/11/10	50 days
570	External Painting	45 days	28/08/10	11/10/10	17/10/10	30/11/10	50 days
571	Remove External scaffoldings	14 days	13/10/10	26/10/10	01/12/10	14/12/10	49 days
572	Aluminum inner frame and Glazing works	28 days	13/10/10	09/11/10	01/12/10	28/12/10	49 days
573	Timber flooring	80 days	21/09/10	09/12/10	09/11/10	27/01/11	49 days
574	Door panels	30 days	01/12/10	30/12/10	19/01/11	17/02/11	49 days
575	Ironmongery	21 days	10/12/10	30/12/10	28/01/11	17/02/11	49 days

MEADOWS @ PEIRCE
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ID	Task Name	Duration	Start	Finish	Late Start	Late Finish	Finish Slack
576	Wardrobe	90 days	02/10/10	30/12/10	20/11/10	17/02/11	49 days
577	Kitchen Cabinet	90 days	23/07/10	20/10/10	22/09/10	20/12/10	61 days
578	Kitchen Appliances	21 days	14/11/10	04/12/10	14/01/11	03/02/11	61 days
579	Vanity counter	30 days	05/10/10	03/11/10	08/12/10	06/01/11	64 days
580	Vanity cabinets	30 days	05/10/10	03/11/10	08/12/10	06/01/11	64 days
581	Mirror cabinets	21 days	14/10/10	03/11/10	14/01/11	03/02/11	92 days
582	Shower screen	21 days	14/10/10	03/11/10	17/12/10	06/01/11	64 days
583	Internal Painting final coat	21 days	28/10/10	17/11/10	21/01/11	10/02/11	85 days
584	Sanitary wares, fittings and accessories	21 days	04/11/10	24/11/10	07/01/11	27/01/11	64 days
585	Installation of Jacuzzi for Penthouse units	7 days	25/11/10	01/12/10	28/01/11	03/02/11	64 days
586	Retractable clothes hangers	14 days	11/11/10	24/11/10	04/02/11	17/02/11	85 days
587	Signage	14 days	05/12/10	18/12/10	04/02/11	17/02/11	61 days
588	Cleaning up	14 days	31/12/10	13/01/11	18/02/11	03/03/11	49 days
589	**MAIN BUILDING WORKS TOWER 3B GL 27/3-42/3**	**392 days**	**26/12/09**	**21/01/11**	**14/02/10**	**03/03/11**	**41 days**
590	Ceiling Skimming	80 days	26/12/09	15/03/10	14/02/10	04/05/10	50 days
591	Brick/Dry Wall Partition works	80 days	16/01/10	05/04/10	07/03/10	25/05/10	50 days
592	Door frame	80 days	06/02/10	26/04/10	15/04/10	03/07/10	68 days
593	Aluminum frames	80 days	13/02/10	03/05/10	22/04/10	10/07/10	68 days
594	M&E 1st fix	80 days	06/02/10	26/04/10	28/03/10	15/06/10	50 days
595	Internal Plastering	80 days	27/02/10	17/05/10	09/05/10	27/07/10	71 days
596	Painting 1st coat	80 days	20/03/10	07/06/10	02/06/10	20/08/10	74 days
597	Wet area water proofing	80 days	13/03/10	31/05/10	02/05/10	20/07/10	50 days
598	Wet area wall & floor finishes	80 days	03/04/10	21/06/10	23/05/10	10/08/10	50 days
599	False ceiling 1st fix	80 days	01/05/10	19/07/10	20/06/10	07/09/10	50 days
600	LR/DR/BR floor screed	80 days	22/05/10	09/08/10	11/07/10	28/09/10	50 days
601	Living/Dinning Floor finishes	60 days	02/07/10	30/08/10	21/08/10	19/10/10	50 days
602	Build up roof waterproofing	35 days	18/05/10	21/06/10	28/07/10	31/08/10	71 days
603	Balcony Balustrade	80 days	21/08/10	08/11/10	31/10/10	18/01/11	71 days
604	GMS railing for staircase	28 days	21/08/10	17/09/10	03/11/10	30/11/10	74 days
605	Metal Roof	60 days	22/06/10	20/08/10	01/09/10	30/10/10	71 days
606	Floor and wall tile finishes to other areas	21 days	15/09/10	05/10/10	10/11/10	30/11/10	56 days
607	External Plastering	75 days	08/07/10	20/09/10	27/08/10	09/11/10	50 days
608	External Painting	45 days	28/08/10	11/10/10	17/10/10	30/11/10	50 days
609	Remove External scaffoldings	14 days	12/10/10	25/10/10	01/12/10	14/12/10	50 days
610	Aluminum inner frame and Glazing works	28 days	12/10/10	08/11/10	01/12/10	28/12/10	50 days
611	Timber flooring	80 days	20/09/10	08/12/10	09/11/10	27/01/11	50 days
612	Door panels	30 days	30/11/10	29/12/10	19/01/11	17/02/11	50 days
613	Ironmongery	21 days	09/12/10	29/12/10	28/01/11	17/02/11	50 days
614	Wardrobe	90 days	01/10/10	29/12/10	20/11/10	17/02/11	50 days
615	Kitchen Cabinet	90 days	16/07/10	13/10/10	06/10/10	03/01/11	82 days
616	Kitchen Appliances	21 days	07/11/10	27/11/10	28/01/11	17/02/11	82 days
617	Vanity counter	30 days	28/09/10	27/10/10	22/12/10	20/01/11	85 days
618	Vanity cabinets	30 days	28/09/10	27/10/10	22/12/10	20/01/11	85 days
619	Mirror cabinets	21 days	07/10/10	27/10/10	14/01/11	03/02/11	99 days
620	Shower screen	21 days	07/10/10	27/10/10	31/12/10	20/01/11	85 days
621	Internal Painting final coat	21 days	21/10/10	10/11/10	21/01/11	10/02/11	92 days
622	Sanitary wares, fittings and accessories	21 days	28/10/10	17/11/10	21/01/11	10/02/11	85 days
623	Installation of Jacuzzi for Penthouse units	7 days	18/11/10	24/11/10	11/02/11	17/02/11	85 days
624	Retractable clothes hangers	14 days	04/11/10	17/11/10	04/02/11	17/02/11	92 days
625	Signage	14 days	28/10/10	10/11/10	04/02/11	17/02/11	99 days
626	Cleaning up	14 days	08/01/11	21/01/11	18/02/11	03/03/11	41 days
627	**MAIN BUILDING WORKS TOWER 4B GL 1/4-23/4**	**426 days**	**06/01/10**	**07/03/11**	**28/02/10**	**17/03/11**	**10 days**
628	Ceiling Skimming	80 days	06/01/10	26/03/10	28/02/10	18/05/10	53 days
629	Brick/Dry Wall Partition works	80 days	27/01/10	16/04/10	21/03/10	08/06/10	53 days
630	Door frame	80 days	17/02/10	07/05/10	29/04/10	17/07/10	71 days
631	Aluminum frames	80 days	24/02/10	14/05/10	05/05/10	24/07/10	71 days
632	M&E 1st fix	80 days	17/02/10	07/05/10	11/04/10	29/06/10	53 days
633	Internal Plastering	80 days	10/03/10	28/05/10	23/05/10	10/08/10	74 days
634	Painting 1st coat	80 days	31/03/10	18/06/10	16/06/10	03/09/10	77 days
635	Wet area water proofing	80 days	24/03/10	11/06/10	16/05/10	03/08/10	53 days
636	Wet area wall & floor finishes	80 days	14/04/10	02/07/10	06/06/10	24/08/10	53 days
637	False ceiling 1st fix	80 days	12/05/10	30/07/10	04/07/10	21/09/10	53 days
638	LR/DR/BR floor screed	80 days	02/06/10	20/08/10	25/07/10	12/10/10	53 days
639	Living/Dinning Floor finishes	60 days	13/07/10	10/09/10	04/09/10	02/11/10	53 days

MEADOWS @ PEIRCE
MASTER CONSTRUCTION PROGRAM
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ID	Task Name	Duration	Start	Finish	Late Start	Late Finish	Finish Slack
640	Build up roof waterproofing	35 days	29/05/10	02/07/10	11/08/10	14/09/10	74 days
641	Balcony Balustrade	80 days	01/09/10	19/11/10	14/11/10	01/02/11	74 days
642	GMS railing for staircase	28 days	01/09/10	28/09/10	17/11/10	14/12/10	77 days
643	Metal Roof	60 days	03/07/10	31/08/10	15/09/10	13/11/10	74 days
644	Floor and wall tile finishes to other areas	21 days	26/09/10	16/10/10	24/11/10	14/12/10	59 days
645	External Plastering	75 days	19/07/10	01/10/10	10/09/10	23/11/10	53 days
646	External Painting	45 days	08/09/10	22/10/10	31/10/10	14/12/10	53 days
647	Remove External scaffoldings	14 days	23/10/10	05/11/10	15/12/10	28/12/10	53 days
648	Aluminum Inner frame and Glazing works	28 days	23/10/10	19/11/10	15/12/10	11/01/11	53 days
649	Timber flooring	80 days	01/10/10	19/12/10	23/11/10	10/02/11	53 days
650	Door panels	30 days	11/12/10	09/01/11	02/02/11	03/03/11	53 days
651	Ironmongery	21 days	20/12/10	09/01/11	11/02/11	03/03/11	53 days
652	Wardrobe	90 days	12/10/10	09/01/11	04/12/10	03/03/11	53 days
653	Kitchen Cabinet	90 days	27/07/10	24/10/10	20/10/10	17/01/11	85 days
654	Kitchen Appliances	21 days	18/11/10	08/12/10	11/02/11	03/03/11	85 days
655	Vanity counter	30 days	09/10/10	07/11/10	05/01/11	03/02/11	88 days
656	Vanity cabinets	30 days	09/10/10	07/11/10	05/01/11	03/02/11	88 days
657	Mirror cabinets	21 days	18/10/10	07/11/10	14/01/11	03/02/11	88 days
658	Shower screen	21 days	18/10/10	07/11/10	14/01/11	03/02/11	88 days
659	Internal Painting final coat	21 days	01/11/10	21/11/10	04/02/11	24/02/11	95 days
660	Sanitary wares, fittings and accessories	21 days	08/11/10	28/11/10	04/02/11	24/02/11	88 days
661	Installation of Jacuzzi for Penthouse units	7 days	29/11/10	05/12/10	25/02/11	03/03/11	88 days
662	Retractable clothes hangers	14 days	15/11/10	28/11/10	18/02/11	03/03/11	95 days
663	Signage	14 days	15/11/10	28/11/10	18/02/11	03/03/11	95 days
664	Cleaning up	14 days	22/02/11	07/03/11	04/03/11	17/03/11	10 days
665	**MAIN BUILDING WORKS TOWER 5A GL 40/4-66/4**	376 days	02/06/10	12/06/11	02/06/10	12/06/11	0 days
666	Ceiling Skimming	80 days	02/06/10	20/08/10	02/06/10	20/08/10	0 days
667	Brick/Dry Wall Partition works	80 days	23/06/10	10/09/10	23/06/10	10/09/10	0 days
668	Door frame	80 days	14/07/10	01/10/10	01/08/10	19/10/10	18 days
669	Aluminum frames	80 days	21/07/10	08/10/10	08/08/10	26/10/10	18 days
670	M&E 1st fix	80 days	14/07/10	01/10/10	14/07/10	01/10/10	0 days
671	Internal Plastering	80 days	04/08/10	22/10/10	18/08/10	05/11/10	14 days
672	Painting 1st coat	80 days	25/08/10	12/11/10	18/09/10	06/12/10	24 days
673	Wet area water proofing	80 days	18/08/10	05/11/10	18/08/10	05/11/10	0 days
674	Wet area wall & floor finishes	80 days	08/09/10	26/11/10	08/09/10	26/11/10	0 days
675	False ceiling 1st fix	80 days	06/10/10	24/12/10	06/10/10	24/12/10	0 days
676	LR/DR/BR floor screed	80 days	27/10/10	14/01/11	27/10/10	14/01/11	0 days
677	Living/Dinning Floor finishes	60 days	07/12/10	04/02/11	07/12/10	04/02/11	0 days
678	Build up roof waterproofing	35 days	23/10/10	26/11/10	06/11/10	10/12/10	14 days
679	Balcony Balustrade	80 days	26/01/11	15/04/11	09/02/11	29/04/11	14 days
680	GMS railing for staircase	28 days	26/01/11	22/02/11	12/02/11	11/03/11	17 days
681	Metal Roof	60 days	27/11/10	25/01/11	11/12/10	08/02/11	14 days
682	Floor and wall tile finishes to other areas	21 days	19/02/11	11/03/11	19/02/11	11/03/11	0 days
683	External Plastering	75 days	06/12/10	18/02/11	06/12/10	18/02/11	0 days
684	External Painting	45 days	26/01/11	11/03/11	26/01/11	11/03/11	0 days
685	Remove External scaffoldings	14 days	12/03/11	25/03/11	12/03/11	25/03/11	0 days
686	Aluminum Inner frame and Glazing works	28 days	12/03/11	08/04/11	12/03/11	08/04/11	0 days
687	Timber flooring	80 days	18/02/11	08/05/11	18/02/11	08/05/11	0 days
688	Door panels	30 days	30/04/11	29/05/11	30/04/11	29/05/11	0 days
689	Ironmongery	21 days	09/05/11	29/05/11	09/05/11	29/05/11	0 days
690	Wardrobe	90 days	01/03/11	29/05/11	01/03/11	29/05/11	0 days
691	Kitchen Cabinet	90 days	21/12/10	20/03/11	15/01/11	14/04/11	25 days
692	Kitchen Appliances	21 days	14/04/11	04/05/11	09/05/11	29/05/11	25 days
693	Vanity counter	30 days	05/03/11	03/04/11	02/04/11	01/05/11	28 days
694	Vanity cabinets	30 days	05/03/11	03/04/11	02/04/11	01/05/11	28 days
695	Mirror cabinets	21 days	14/03/11	03/04/11	02/05/11	22/05/11	49 days
696	Shower screen	21 days	14/03/11	03/04/11	11/04/11	01/05/11	28 days
697	Internal Painting final coat	21 days	28/03/11	17/04/11	02/05/11	22/05/11	35 days
698	Sanitary wares, fittings and accessories	21 days	04/04/11	24/04/11	02/05/11	22/05/11	28 days
699	Installation of Jacuzzi for Penthouse units	7 days	25/04/11	01/05/11	23/05/11	29/05/11	28 days
700	Retractable clothes hangers	14 days	11/04/11	24/04/11	16/05/11	29/05/11	35 days
701	Signage	14 days	04/04/11	17/04/11	16/05/11	29/05/11	42 days
702	Cleaning up	14 days	30/05/11	12/06/11	30/05/11	12/06/11	0 days
703							

MEADOWS @ PEIRCE
MASTER CONSTRUCTION PROGRAM
REVISION 7(R)

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APPROVED BY: LEONG CHEE KENG
DATE: 23 OCTOBER 2009

ID	Task Name	Duration	Start	Finish	Late Start	Late Finish	Finish Slack
704	**PHASE 2A - A&A WORKS TO TOWER 1**	**759 days**	**01/07/09**	**29/07/11**	**24/08/09**	**11/08/11**	**13 days**
705	Testing on existing structure	30 days	01/07/09	30/07/09	24/08/09	22/09/09	54 days
706	Structural appraisal	70 days	31/07/09	08/10/09	23/09/09	01/12/09	54 days
707	Under Pinning / Foundation	60 days	01/01/10	01/03/10	01/01/10	01/03/10	0 days
708	Demolition of existing structures/int partitions	60 days	01/01/10	01/03/10	02/01/10	02/03/10	1 day
709	Alteration and Addition Works (incl. basement carpark)	155 days	01/01/10	04/06/10	02/01/10	05/06/10	1 day
710	**New RC structures**	**210 days**	**01/01/10**	**29/07/10**	**01/01/10**	**29/07/10**	**0 days**
711	1st -5th sty	60 days	01/01/10	01/03/10	01/01/10	01/03/10	0 days
712	6th-10th sty	60 days	02/03/10	30/04/10	02/03/10	30/04/10	0 days
713	11-14th sty	60 days	01/05/10	29/06/10	01/05/10	29/06/10	0 days
714	Roof	30 days	30/06/10	29/07/10	30/06/10	29/07/10	0 days
715	Brick /Dry Wall Partition works	150 days	16/04/10	12/09/10	16/04/10	12/09/10	0 days
716	Door frame	150 days	30/04/10	26/09/10	12/05/10	08/10/10	12 days
717	Aluminum frame	100 days	05/06/10	12/09/10	06/06/10	13/09/10	1 day
718	M&E 1st fix	150 days	16/05/10	12/10/10	16/05/10	12/10/10	0 days
719	Internal Plastering	150 days	30/06/10	26/11/10	18/10/10	16/03/11	110 days
720	Painting 1st coat	120 days	20/08/10	17/12/10	08/12/10	06/04/11	110 days
721	Wet area water proofing	150 days	26/05/10	22/10/10	26/05/10	22/10/10	0 days
722	Wet area wall & floor finishes	170 days	05/06/10	21/11/10	05/06/10	21/11/10	0 days
723	False ceiling 1st fix	150 days	07/08/10	03/01/11	26/08/10	22/01/11	19 days
724	Floor screed	120 days	20/09/10	17/01/11	09/10/10	05/02/11	19 days
725	Living/Dinning Floor finishes	150 days	27/09/10	23/02/11	09/10/10	07/03/11	12 days
726	Main roof waterproofing	45 days	14/08/10	27/09/10	22/04/11	05/06/11	251 days
727	Balcony Balustrade	100 days	30/11/10	09/03/11	12/12/10	21/03/11	12 days
728	Staircase Railing	60 days	09/01/11	09/03/11	21/01/11	21/03/11	12 days
729	Metal Roof	30 days	28/09/10	27/10/10	07/05/11	05/06/11	221 days
730	Floor and wall tile finishes to other areas	21 days	10/02/11	02/03/11	23/04/11	13/05/11	72 days
731	External Plastering	120 days	08/09/10	05/01/11	08/09/10	05/01/11	0 days
732	External Painting	30 days	05/02/11	06/03/11	05/02/11	06/03/11	0 days
733	Remove External scaffoldings	30 days	22/03/11	20/04/11	22/03/11	20/04/11	0 days
734	Alum. Inner Frame & Glazing	90 days	21/01/11	20/04/11	21/01/11	20/04/11	0 days
735	Timber flooring	120 days	21/01/11	20/05/11	21/01/11	20/05/11	0 days
736	Door Panel	75 days	21/03/11	03/06/11	21/03/11	03/06/11	0 days
737	Ironmongery	60 days	05/04/11	03/06/11	06/06/11	04/08/11	62 days
738	Wardrobe	120 days	20/02/11	19/06/11	07/04/11	04/08/11	46 days
739	Kitchen Cabinet	120 days	21/01/11	20/05/11	13/02/11	12/06/11	23 days
740	Kitchen Appliances	45 days	05/06/11	19/07/11	28/06/11	11/08/11	23 days
741	Vanity counter	100 days	10/02/11	20/05/11	04/04/11	12/07/11	53 days
742	Vanity cabinets	90 days	20/02/11	20/05/11	14/04/11	12/07/11	53 days
743	Mirror cabinets	60 days	22/03/11	20/05/11	14/05/11	12/07/11	53 days
744	Shower screen	60 days	05/04/11	03/06/11	05/04/11	03/06/11	0 days
745	Internal Painting final coat	30 days	19/05/11	17/06/11	19/05/11	17/06/11	0 days
746	M&E Final fix	60 days	22/03/11	20/05/11	14/05/11	12/07/11	53 days
747	Sanitary wares, fittings and accessories	30 days	04/06/11	03/07/11	13/07/11	11/08/11	39 days
748	Installation of Jacuzzi for Penthouse units	7 days	27/06/11	03/07/11	05/08/11	11/08/11	39 days
749	Retractable clothes hangers	21 days	04/06/11	24/06/11	22/07/11	11/08/11	48 days
750	Timber floor final vanishing	30 days	18/06/11	17/07/11	13/07/11	11/08/11	25 days
751	Signage	21 days	18/06/11	08/07/11	18/06/11	08/07/11	0 days
752	Cleaning up	21 days	09/07/11	29/07/11	09/07/11	29/07/11	0 days
753							
754	**ELECTRICAL SUBSTATION & BIN CENTRE**	**260 days**	**01/06/10**	**15/02/11**	**01/06/10**	**29/04/11**	**73 days**
755	Demolish existing substation	7 days	01/06/10	07/06/10	01/06/10	07/06/10	0 days
756	Piling	14 days	08/06/10	21/06/10	08/06/10	21/06/10	0 days
757	Working Load Test	14 days	22/06/10	05/07/10	22/06/10	05/07/10	0 days
758	Concrete structures	60 days	06/07/10	03/09/10	06/07/10	03/09/10	0 days
759	Wall, windows and doors	14 days	04/09/10	17/09/10	04/09/10	17/09/10	0 days
760	Roof finishes and rain water goods	21 days	18/09/10	08/10/10	28/10/10	17/11/10	40 days
761	External finishes	21 days	18/09/10	08/10/10	24/09/10	14/10/10	6 days
762	Internal finishes	21 days	18/09/10	08/10/10	18/09/10	08/10/10	0 days
763	Access hatch/railing/grab bars	7 days	09/10/10	15/10/10	15/10/10	21/10/10	6 days
764	Driveway	13 days	09/10/10	21/10/10	09/10/10	21/10/10	0 days
765	Handover of Substation to Power Grid	27 days	22/10/10	17/11/10	22/10/10	17/11/10	0 days
766	Power Grid's Work in Electrical Substation and Laying of HT cables to Remote Transformer Rm	90 days	18/11/10	15/02/11	18/11/10	15/02/11	0 days
767	Bird Watch Tower	75 days	04/09/10	17/11/10	14/02/11	29/04/11	163 days

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ID	Task Name	Duration	Start	Finish	Late Start	Late Finish	Finish Slack
768							
769	**PHASE 2B BALANCED OF TOWER 3A GL 1/3-9/3 & SWIMMING POOL**	**504 days?**	**01/04/10**	**17/08/11**	**12/10/10**	**17/08/11**	**0 days?**
770	**1st Half of Show Flat**	**20 days**	**01/04/10**	**20/04/10**	**12/10/10**	**31/10/10**	**194 days**
771	Handover & Demolition Works	5 days	01/04/10	05/04/10	12/10/10	16/10/10	194 days
772	Piling work	15 days	06/04/10	20/04/10	17/10/10	31/10/10	194 days
773	**2nd Half of Show Flat**	**10 days**	**01/11/10**	**10/11/10**	**01/11/10**	**10/11/10**	**0 days**
774	Handover & Demolition Works	10 days	01/11/10	10/11/10	01/11/10	10/11/10	0 days
775	**Construction of Balance of Tower 3A GL**	**280 days?**	**11/11/10**	**17/08/11**	**11/11/10**	**17/08/11**	**0 days?**
776	Piling	15 days	11/11/10	25/11/10	11/11/10	25/11/10	0 days
777	Working Load Test	7 days	26/11/10	02/12/10	26/11/10	02/12/10	0 days
778	Substructure	21 days	03/12/10	23/12/10	03/12/10	23/12/10	0 days
779	1st Sty slab	14 days	24/12/10	06/01/11	24/12/10	06/01/11	0 days
780	2nd sty slab	14 days	07/01/11	20/01/11	07/01/11	20/01/11	0 days
781	3rd sty slab	14 days	21/01/11	03/02/11	21/01/11	03/02/11	0 days
782	4th sty slab	14 days	04/02/11	17/02/11	04/02/11	17/02/11	0 days
783	5th sty slab	14 days	18/02/11	03/03/11	18/02/11	03/03/11	0 days
784	Attic slab	14 days	04/03/11	17/03/11	04/03/11	17/03/11	0 days
785	Roof slab	18 days	18/03/11	04/04/11	18/03/11	04/04/11	0 days
786	Handover Lift shaft	1 day?	19/04/11	19/04/11	19/04/11	19/04/11	0 days?
787	Lift installation	120 days	20/04/11	17/08/11	20/04/11	17/08/11	0 days
788	Lift T&C	7 days	11/08/11	17/08/11	11/08/11	17/08/11	0 days
789	Ceiling Skimming	7 days	12/04/11	18/04/11	12/04/11	18/04/11	0 days
790	Brick Dry Wall Partition work	21 days	05/04/11	25/04/11	05/04/11	25/04/11	0 days
791	Door frame	14 days	19/04/11	02/05/11	19/04/11	02/05/11	0 days
792	Aluminum frames	10 days	23/04/11	02/05/11	23/04/11	02/05/11	0 days
793	M&E 1st fix	23 days	10/04/11	02/05/11	10/04/11	02/05/11	0 days
794	Internal Plastering	21 days	19/04/11	09/05/11	19/04/11	09/05/11	0 days
795	Painting 1st coat	7 days	17/05/11	23/05/11	17/05/11	23/05/11	0 days
796	Wet area water proofing	5 days	05/05/11	09/05/11	29/05/11	02/06/11	24 days
797	Wet area wall & floor finishes	21 days	26/04/11	16/05/11	20/05/11	09/06/11	24 days
798	False celling 1st fix	14 days	10/05/11	23/05/11	03/06/11	16/06/11	24 days
799	LR/DR/BR floor screed	7 days	20/05/11	26/05/11	13/06/11	19/06/11	24 days
800	Living/Dinning Floor finishes	28 days	06/05/11	02/06/11	30/05/11	26/06/11	24 days
801	Build up roof waterproofing	5 days	30/04/11	04/05/11	05/05/11	09/05/11	5 days
802	Balcony Balustrade	7 days	05/05/11	11/05/11	10/05/11	16/05/11	5 days
803	GMS railing for staircase	7 days	12/05/11	18/05/11	17/05/11	23/05/11	5 days
804	Metal Roof	20 days	25/04/11	14/05/11	04/05/11	23/05/11	9 days
805	External Plastering	14 days	10/05/11	23/05/11	10/05/11	23/05/11	0 days
806	External Painting	7 days	24/05/11	30/05/11	24/05/11	30/05/11	0 days
807	Remove External scaffoldings	3 days	04/06/11	06/06/11	08/06/11	10/06/11	4 days
808	Aluminum inner frame and Glazing works	5 days	02/06/11	06/06/11	02/06/11	06/06/11	0 days
809	Timber flooring	28 days	17/05/11	13/06/11	17/05/11	13/06/11	0 days
810	Door panels	10 days	11/06/11	20/06/11	11/06/11	20/06/11	0 days
811	Ironmongery	10 days	13/06/11	22/06/11	13/06/11	22/06/11	0 days
812	Wardrobe	21 days	31/05/11	20/06/11	13/06/11	03/07/11	13 days
813	Kitchen Cabinet	21 days	31/05/11	20/06/11	13/06/11	03/07/11	13 days
814	Kitchen Appliances	7 days	14/06/11	20/06/11	27/06/11	03/07/11	13 days
815	Vanity counter	7 days	14/06/11	20/06/11	04/07/11	10/07/11	20 days
816	Vanity cabinets	5 days	16/06/11	20/06/11	06/07/11	10/07/11	20 days
817	Mirror cabinets	5 days	16/06/11	20/06/11	06/07/11	10/07/11	20 days
818	Shower screen	3 days	07/06/11	09/06/11	01/07/11	03/07/11	24 days
819	Internal Painting final coat	21 days	23/06/11	13/07/11	23/06/11	13/07/11	0 days
820	M&E final fix	30 days	11/05/11	09/06/11	11/06/11	10/07/11	31 days
821	Final M&E T&C	7 days	21/06/11	27/06/11	04/07/11	10/07/11	13 days
822	Sanitary wares, fittings and accessories	15 days	02/06/11	16/06/11	26/06/11	10/07/11	24 days
823	Installation of Jacuzzi for Penthouse units	7 days	10/06/11	16/06/11	04/07/11	10/07/11	24 days
824	Retractable clothes hangers	5 days	05/06/11	09/06/11	06/07/11	10/07/11	31 days
825	Signage	3 days	11/07/11	13/07/11	11/07/11	13/07/11	0 days
826	Cleaning up	7 days	14/07/11	20/07/11	14/07/11	20/07/11	0 days
827							
828	**Construction of balanced E Deck**	**140 days**	**25/11/10**	**13/04/11**	**10/03/11**	**27/07/11**	**105 days**
829	Basement Slab	30 days	25/11/10	25/12/10	10/03/11	08/04/11	105 days
830	1st sty swimming pool /E Deck	45 days	25/12/10	07/02/11	08/04/11	23/05/11	105 days
831	Water proofing system	14 days	08/02/11	21/02/11	24/05/11	06/06/11	105 days

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832	E Deck Finishes	30 days	22/02/11	23/03/11	07/06/11	06/07/11	105 days
833	Pool Deck Finishes	21 days	24/03/11	13/04/11	07/07/11	27/07/11	105 days
834							
835	**BASEMENT WORKS**	**314 days**	**06/09/10**	**16/07/11**	**21/09/10**	**11/08/11**	**26 days**
836	**Architectural Works**	**314 days**	**06/09/10**	**16/07/11**	**21/09/10**	**11/08/11**	**26 days**
837	Ceiling Skimcoat & Wall plastering	120 days	06/09/10	03/01/11	21/09/10	18/01/11	15 days
838	Painting	30 days	03/02/11	04/03/11	31/03/11	29/04/11	56 days
839	Refuse chamber	60 days	03/02/11	03/04/11	01/03/11	29/04/11	26 days
840	Column guard	14 days	04/04/11	17/04/11	30/04/11	13/05/11	26 days
841	Basement Lift Lobbies	120 days	04/01/11	03/05/11	19/01/11	18/05/11	15 days
842	M&E rooms	120 days	04/01/11	03/05/11	19/01/11	18/05/11	15 days
843	MDF Room (GL2-3 / B-C)	90 days	10/11/10	07/02/11	20/11/10	17/02/11	10 days
844	Inspection & Hand over of MDF to Service Providers	14 days	08/02/11	21/02/11	18/02/11	03/03/11	10 days
845	Car park Scupper drains	75 days	02/02/11	17/04/11	28/02/11	13/05/11	26 days
846	Touch up car park surfaces	45 days	04/03/11	17/04/11	30/03/11	13/05/11	26 days
847	Epoxy Hardener to car park	60 days	03/02/11	03/04/11	01/03/11	29/04/11	26 days
848	Car park line painting	14 days	04/04/11	17/04/11	30/04/11	13/05/11	26 days
849	Signage	90 days	18/04/11	16/07/11	14/05/11	11/08/11	26 days
850	**M&E Works**	**235 days**	**05/11/10**	**27/06/11**	**15/12/10**	**12/07/11**	**15 days**
851	ACMV works	150 days	30/12/10	28/05/11	14/01/11	12/06/11	15 days
852	Cold water distribution	120 days	28/02/11	27/06/11	15/03/11	12/07/11	15 days
853	Gas pipe distribution	120 days	28/02/11	27/06/11	15/03/11	12/07/11	15 days
854	Electrical Installation	160 days	05/11/10	03/05/11	15/12/10	12/06/11	40 days
855							
856	**M&E WORKS**	**972 days**	**15/11/08**	**14/07/11**	**10/08/09**	**11/08/11**	**28 days**
857	**LIFT INSTALLATIONS**	**473 days**	**08/02/10**	**26/05/11**	**21/09/10**	**12/06/11**	**17 days**
858	**Tower 2**	**459 days**	**08/02/10**	**12/05/11**	**22/10/10**	**12/06/11**	**31 days**
859	Handover of lift hoist way	10 days	08/02/10	17/02/10	22/10/10	31/10/10	256 days
860	Plumbing lift shaft	14 days	18/02/10	03/03/10	01/11/10	14/11/10	256 days
861	Install lift car & frame assy	60 days	04/03/10	02/05/10	15/11/10	13/01/11	256 days
862	Install landing parts & wiring works	45 days	03/04/10	17/05/10	15/12/10	28/01/11	256 days
863	Hanover lift door jamb for grouting	14 days	03/05/10	16/05/10	14/01/11	27/01/11	256 days
864	Car cage assy and car interior work	60 days	17/05/10	15/07/10	28/01/11	28/03/11	256 days
865	Request for power supply	1 day	16/07/10	16/07/10	29/03/11	29/03/11	256 days
866	Lift adjustment work	45 days	17/07/10	30/08/10	30/03/11	13/05/11	256 days
867	Lift T&C	30 days	13/04/11	12/05/11	14/05/11	12/06/11	31 days
868	**Tower 3**	**454 days**	**13/02/10**	**12/05/11**	**21/09/10**	**12/06/11**	**31 days**
869	Handover of lift hoist way	14 days	13/02/10	26/02/10	21/09/10	04/10/10	220 days
870	Plumbing lift shaft	21 days	27/02/10	19/03/10	05/10/10	25/10/10	220 days
871	Install lift car & frame assy	75 days	20/03/10	02/06/10	26/10/10	08/01/11	220 days
872	Install landing parts & wiring works	45 days	19/04/10	02/06/10	25/11/10	08/01/11	220 days
873	Hanover lift door jamb for grouting	14 days	19/05/10	01/06/10	25/12/10	07/01/11	220 days
874	Car cage assy and car interior work	75 days	02/06/10	15/08/10	08/01/11	23/03/11	220 days
875	Request for power supply	1 day	16/08/10	16/08/10	24/03/11	24/03/11	220 days
876	Lift adjustment work	50 days	17/08/10	05/10/10	25/03/11	13/05/11	220 days
877	Lift T&C	30 days	13/04/11	12/05/11	14/05/11	12/06/11	31 days
878	**Tower 5B**	**406 days**	**02/04/10**	**12/05/11**	**21/09/10**	**12/06/11**	**31 days**
879	Handover of lift hoist way	14 days	02/04/10	15/04/10	21/09/10	04/10/10	172 days
880	Plumbing lift shaft	21 days	16/04/10	06/05/10	05/10/10	25/10/10	172 days
881	Install lift car & frame assy	75 days	07/05/10	20/07/10	26/10/10	08/01/11	172 days
882	Install landing parts & wiring works	45 days	06/06/10	20/07/10	25/11/10	08/01/11	172 days
883	Hanover lift door jamb for grouting	14 days	06/07/10	19/07/10	25/12/10	07/01/11	172 days
884	Car cage assy and car interior work	75 days	20/07/10	02/10/10	08/01/11	23/03/11	172 days
885	Request for power supply	1 day	03/10/10	03/10/10	24/03/11	24/03/11	172 days
886	Lift adjustment work	50 days	04/10/10	22/11/10	25/03/11	13/05/11	172 days
887	Lift T&C	30 days	13/04/11	12/05/11	14/05/11	12/06/11	31 days
888	**Tower 5A**	**265 days**	**03/09/10**	**25/05/11**	**21/09/10**	**12/06/11**	**18 days**
889	Handover of lift hoist way	14 days	03/09/10	16/09/10	21/09/10	04/10/10	18 days
890	Plumbing lift shaft	21 days	17/09/10	07/10/10	05/10/10	25/10/10	18 days
891	Install lift car & frame assy	75 days	08/10/10	21/12/10	26/10/10	08/01/11	18 days
892	Install landing parts & wiring works	45 days	07/11/10	21/12/10	25/11/10	08/01/11	18 days
893	Hanover lift door jamb for grouting	14 days	07/12/10	20/12/10	25/12/10	07/01/11	18 days
894	Car cage assy and car interior work	75 days	21/12/10	05/03/11	08/01/11	23/03/11	18 days
895	Request for power supply	1 day	06/03/11	06/03/11	24/03/11	24/03/11	18 days

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REVISION 7(R)

PREPARED BY: VOON KIM LOON
APPROVED BY: LEONG CHEE KENG
DATE: 23 OCTOBER 2009

ID	Task Name	Duration	Start	Finish	Late Start	Late Finish	Finish Slack
896	Lift adjustment work	50 days	07/03/11	25/04/11	25/03/11	13/05/11	18 days
897	Lift T&C	30 days	26/04/11	25/05/11	14/05/11	12/06/11	18 days
898	Tower 4	277 days	22/08/10	25/05/11	21/09/10	12/06/11	18 days
899	Handover of lift hoist way	14 days	22/08/10	04/09/10	21/09/10	04/10/10	30 days
900	Plumbing lift shaft	21 days	05/09/10	25/09/10	05/10/10	25/10/10	30 days
901	Install lift car & frame assy	75 days	26/09/10	09/12/10	26/10/10	08/01/11	30 days
902	Install landing parts & wiring works	45 days	26/10/10	09/12/10	25/11/10	08/01/11	30 days
903	Hanover lift door jamb for grouting	14 days	25/11/10	08/12/10	25/12/10	07/01/11	30 days
904	Car cage assy and car interior work	75 days	09/12/10	21/02/11	08/01/11	23/03/11	30 days
905	Request for power supply	1 day	22/02/11	22/02/11	24/03/11	24/03/11	30 days
906	Lift adjustment work	50 days	23/02/11	13/04/11	25/03/11	13/05/11	30 days
907	Lift T&C	30 days	26/04/11	25/05/11	14/05/11	12/06/11	18 days
908	Tower 1	271 days	29/08/10	26/05/11	04/11/10	12/06/11	17 days
909	Handover of lift hoist way	4 days	29/08/10	01/09/10	04/11/10	07/11/10	67 days
910	Plumbing lift shaft	14 days	02/09/10	15/09/10	08/11/10	21/11/10	67 days
911	Install lift car & frame assy	60 days	16/09/10	14/11/10	22/11/10	20/01/11	67 days
912	Install landing parts & wiring works	45 days	31/10/10	14/12/10	06/01/11	19/02/11	67 days
913	Hanover lift door jamb for grouting	7 days	15/12/10	21/12/10	20/02/11	26/02/11	67 days
914	Car cage assy and car interior work	45 days	22/12/10	04/02/11	27/02/11	12/04/11	67 days
915	Request for power supply	1 day	05/02/11	05/02/11	13/04/11	13/04/11	67 days
916	Lift adjustment work	30 days	06/02/11	07/03/11	14/04/11	13/05/11	67 days
917	Lift T&C	30 days	27/04/11	26/05/11	14/05/11	12/06/11	17 days
918	ELECTRICAL INSTALLATION AND SECURITY SYSTEM	626 days	03/09/09	21/05/11	28/12/09	30/05/11	9 days
919	Tower 2	601 days	03/09/09	26/04/11	28/12/09	30/05/11	34 days
920	Concealed pipe works	128 days	03/09/09	08/01/10	28/12/09	04/05/10	116 days
921	Concealed conduit works	120 days	15/10/09	11/02/10	06/07/10	02/11/10	264 days
922	Sub circuit wiring (elect, Telecom, SCV)	120 days	13/01/10	12/05/10	04/10/10	31/01/11	264 days
923	Sub main cables in risers	120 days	27/02/10	26/06/10	18/11/10	17/03/11	264 days
924	Sub main cables from LT to metering board	120 days	29/03/10	26/07/10	18/12/10	16/04/11	264 days
925	DB & internal termination	30 days	11/07/10	09/08/10	01/04/11	30/04/11	264 days
926	Switches Socket and Power Point outlets (Final fix)	30 days	10/08/10	08/09/10	01/05/11	30/05/11	264 days
927	Lighning Protection Sys Test	7 days	17/08/10	23/08/10	08/05/11	14/05/11	264 days
928	Power turn-on	14 days	13/04/11	26/04/11	15/05/11	28/05/11	32 days
929	Tower 3	588 days	16/09/09	26/04/11	05/01/10	30/05/11	34 days
930	Concealed pipe works	120 days	16/09/09	13/01/10	05/01/10	04/05/10	111 days
931	Concealed conduit works	120 days	05/11/09	04/03/10	21/06/10	18/10/10	228 days
932	Sub circuit wiring (elect, Telecom, SCV)	120 days	03/02/10	02/06/10	19/09/10	16/01/11	228 days
933	Sub main cables in risers	100 days	24/04/10	01/08/10	08/12/10	17/03/11	228 days
934	Sub main cables from LT to metering board	100 days	24/05/10	31/08/10	07/01/11	16/04/11	228 days
935	DB & internal termination	30 days	16/08/10	14/09/10	01/04/11	30/04/11	228 days
936	Switches Socket and Power Point outlets (Final fix)	30 days	15/09/10	14/10/10	01/05/11	30/05/11	228 days
937	Lighning Protection Sys Test	7 days	22/09/10	28/09/10	08/05/11	14/05/11	228 days
938	Power turn on	14 days	13/04/11	26/04/11	15/05/11	28/05/11	32 days
939	Tower 5	545 days	03/11/09	01/05/11	05/01/10	28/05/11	27 days
940	Concealed pipe works	120 days	03/11/09	02/03/10	05/01/10	04/05/10	63 days
941	Concealed conduit works	120 days	23/12/09	21/04/10	21/06/10	18/10/10	180 days
942	Sub circuit wiring (elect, Telecom, SCV)	100 days	12/04/10	20/07/10	09/10/10	16/01/11	180 days
943	Sub main cables in risers	100 days	11/06/10	18/09/10	08/12/10	17/03/11	180 days
944	Sub main cables from LT to metering board	70 days	10/08/10	18/10/10	06/02/11	16/04/11	180 days
945	DB & internal termination	21 days	12/10/10	01/11/10	10/04/11	30/04/11	180 days
946	Switches Socket and Power Point outlets (Final fix)	21 days	02/11/10	22/11/10	01/05/11	21/05/11	180 days
947	Lighning Protection Sys Test	7 days	09/11/10	15/11/10	08/05/11	14/05/11	180 days
948	Power turn-on	14 days	18/04/11	01/05/11	15/05/11	28/05/11	27 days
949	Tower 4	503 days	15/12/09	01/05/11	04/02/10	30/05/11	29 days
950	Concealed pipe works	90 days	15/12/09	14/03/10	04/02/10	04/05/10	51 days
951	Concealed conduit works	90 days	03/02/10	03/05/10	28/07/10	25/10/10	175 days
952	Sub circuit wiring (elect, Telecom, SCV)	90 days	04/05/10	01/08/10	26/10/10	23/01/11	175 days
953	Sub main cables in risers	60 days	02/08/10	30/09/10	24/01/11	24/03/11	175 days
954	Sub main cables from LT to metering board	60 days	01/09/10	30/10/10	23/02/11	23/04/11	175 days
955	DB & internal termination	30 days	08/10/10	06/11/10	01/04/11	30/04/11	175 days
956	Switches Socket and Power Point outlets (Final fix)	30 days	07/11/10	06/12/10	01/05/11	30/05/11	175 days

MEADOWS @ PEIRCE
MASTER CONSTRUCTION PROGRAM
REVISION 7(R)

PREPARED BY: VOON KIM LOON
APPROVED BY: LEONG CHEE KENG
DATE: 23 OCTOBER 2009

ID	Task Name	Duration	Start	Finish	Late Start	Late Finish	Finish Slack
957	Lighning Protection Sys Test	7 days	14/11/10	20/11/10	08/05/11	14/05/11	175 days
958	Power turn on	14 days	18/04/11	01/05/11	15/05/11	28/05/11	27 days
959	**Tower 1**	**476 days**	**31/01/10**	**21/05/11**	**05/05/10**	**22/05/11**	**1 day**
960	Concealed pipe works	180 days	31/01/10	29/07/10	26/10/10	23/04/11	268 days
961	Concealed conduit works	150 days	04/05/10	30/09/10	05/05/10	01/10/10	1 day
962	Sub circuit wiring (elect, Telecom, SCV)	120 days	03/07/10	30/10/10	04/07/10	31/10/10	1 day
963	Sub main cables in risers	120 days	17/07/10	13/11/10	18/07/10	14/11/10	1 day
964	Sub main cables from LT to metering board	120 days	14/11/10	13/03/11	15/11/10	14/03/11	1 day
965	DB & Internal termination	30 days	26/02/11	27/03/11	27/02/11	28/03/11	1 day
966	Switches Socket and Power Point outlets (Final fix)	30 days	12/03/11	10/04/11	13/03/11	11/04/11	1 day
967	Lighning Protection Sys Test	7 days	19/03/11	25/03/11	22/03/11	28/03/11	3 days
968	Power turn on	14 days	08/05/11	21/05/11	09/05/11	22/05/11	1 day
969	**Security System**	**907 days**	**15/11/08**	**10/05/11**	**17/09/09**	**12/06/11**	**33 days**
970	Concealed pipe works	454 days	15/11/08	11/02/10	17/09/09	14/12/10	306 days
971	Cabling works	210 days	15/10/09	12/05/10	17/08/10	14/03/11	306 days
972	Install Audio Intercom System	90 days	11/01/11	10/04/11	13/02/11	13/05/11	33 days
973	Install CCTV	45 days	25/02/11	10/04/11	30/03/11	13/05/11	33 days
974	Card Access System	45 days	27/03/11	10/05/11	29/04/11	12/06/11	33 days
975	Car Park Barrier with access control, system	30 days	11/04/11	10/05/11	14/05/11	12/06/11	33 days
976	T & C	30 days	11/04/11	10/05/11	14/05/11	12/06/11	33 days
977	**ACMV**	**566 days**	**23/11/09**	**11/06/11**	**09/08/10**	**12/06/11**	**1 day**
978	**Tower 2**	**535 days**	**23/11/09**	**11/05/11**	**06/09/10**	**12/06/11**	**32 days**
979	Concealed pipe works	81 days	23/11/09	11/02/10	13/09/10	02/12/10	294 days
980	Refrigerant pipes with insulation	80 days	23/11/09	10/02/10	13/09/10	01/12/10	294 days
981	Condensate drain pipes	80 days	23/11/09	10/02/10	13/09/10	01/12/10	294 days
982	Install FCU	80 days	10/05/10	28/07/10	06/09/10	24/11/10	119 days
983	Install CU	50 days	16/06/10	04/08/10	13/10/10	01/12/10	119 days
984	T&C	15 days	27/04/11	11/05/11	29/05/11	12/06/11	32 days
985	**Tower 3**	**523 days**	**05/12/09**	**11/05/11**	**09/08/10**	**12/06/11**	**32 days**
986	Concealed pipe works	90 days	05/12/09	04/03/10	09/08/10	06/11/10	247 days
987	Refrigerant pipes with insulation	80 days	05/12/09	22/02/10	09/08/10	27/10/10	247 days
988	Condensate drain pipes	80 days	05/12/09	22/02/10	09/08/10	27/10/10	247 days
989	Install FCU	80 days	28/05/10	15/08/10	27/01/11	16/04/11	244 days
990	Install CU	50 days	04/07/10	22/08/10	05/03/11	23/04/11	244 days
991	T&C	15 days	27/04/11	11/05/11	29/05/11	12/06/11	32 days
992	**Tower 5**	**460 days**	**22/01/10**	**16/05/11**	**23/08/10**	**12/06/11**	**27 days**
993	Concealed pipe works	90 days	22/01/10	21/04/10	23/08/10	20/11/10	213 days
994	Refrigerant pipes with insulation	80 days	22/01/10	11/04/10	23/08/10	10/11/10	213 days
995	Condensate drain pipes	80 days	22/01/10	11/04/10	23/08/10	10/11/10	213 days
996	Install FCU	80 days	15/07/10	02/10/10	04/03/11	22/05/11	232 days
997	Install CU	50 days	04/09/10	23/10/10	24/04/11	12/06/11	232 days
998	T&C	15 days	02/05/11	16/05/11	29/05/11	12/06/11	27 days
999	**Tower 4**	**468 days**	**03/02/10**	**16/05/11**	**13/09/10**	**12/06/11**	**27 days**
1000	Concealed pipe works	90 days	03/02/10	03/05/10	13/09/10	11/12/10	222 days
1001	Refrigerant pipes with insulation	80 days	03/02/10	23/04/10	13/09/10	01/12/10	222 days
1002	Condensate drain pipes	80 days	12/02/10	02/05/10	13/09/10	01/12/10	213 days
1003	Install FCU	80 days	27/07/10	14/10/10	04/03/11	22/05/11	220 days
1004	Install CU	50 days	16/09/10	04/11/10	24/04/11	12/06/11	220 days
1005	T&C	15 days	02/05/11	16/05/11	29/05/11	12/06/11	27 days
1006	**Tower 1**	**167 days**	**06/01/11**	**11/06/11**	**19/02/11**	**12/06/11**	**1 day**
1007	Concealed pipe works	90 days	06/01/11	05/04/11	19/02/11	19/05/11	44 days
1008	Refrigerant pipes with insulation	80 days	06/01/11	26/03/11	19/02/11	09/05/11	44 days
1009	Condensate drain pipes	80 days	20/01/11	09/04/11	05/03/11	23/05/11	44 days
1010	Install FCU	80 days	06/01/11	26/03/11	04/03/11	22/05/11	57 days
1011	Install CU	50 days	26/02/11	16/04/11	24/04/11	12/06/11	57 days
1012	T&C	21 days	22/05/11	11/06/11	23/05/11	12/06/11	1 day
1013	**PLUMBING, SANITARY & GAS INSTALLATION**	**876 days**	**10/01/09**	**04/06/11**	**10/08/09**	**12/06/11**	**8 days**
1014	**Tower 2**	**851 days**	**10/01/09**	**10/05/11**	**10/08/09**	**12/06/11**	**33 days**
1015	Underground piping works	42 days	10/01/09	20/02/09	10/08/09	20/09/09	212 days
1016	Concealed pipe works	90 days	11/10/09	08/01/10	15/05/10	12/08/10	216 days
1017	Above ground hubless soil/waste pipes	90 days	10/12/09	09/03/10	23/07/10	20/10/10	225 days
1018	PPR pipe works	90 days	10/12/09	09/03/10	23/07/10	20/10/10	225 days
1019	Gas pipe works	90 days	10/12/09	09/03/10	23/07/10	20/10/10	225 days

ID	Task Name	Duration	Start	Finish	Late Start	Late Finish	Finish Slack
1020	Pipe works to risers	90 days	09/01/10	08/04/10	13/08/10	10/11/10	216 days
1021	Storage water heater	90 days	30/01/10	29/04/10	03/09/10	01/12/10	216 days
1022	Water tank & pumps	90 days	05/08/10	02/11/10	02/12/10	01/03/11	119 days
1023	Sanitary wares & fittings	21 days	13/10/10	02/11/10	09/02/11	01/03/11	119 days
1024	Jacuzzi on roof terrace (pen house)	30 days	31/10/10	29/11/10	27/02/11	28/03/11	119 days
1025	Gas connection to appliances	21 days	13/10/10	02/11/10	21/03/11	10/04/11	159 days
1026	T&C of PSG installations	14 days	27/04/11	10/05/11	30/05/11	12/06/11	33 days
1027	**Tower 3**	**822 days**	**08/02/09**	**10/05/11**	**10/08/09**	**12/06/11**	**33 days**
1028	Underground piping works	42 days	08/02/09	21/03/09	10/08/09	20/09/09	183 days
1029	Concealed pipe works	90 days	16/10/09	13/01/10	08/06/10	05/09/10	235 days
1030	Above ground hubless soil/waste pipes	90 days	15/12/09	14/03/10	23/08/10	20/11/10	251 days
1031	PPR pipe works	90 days	15/12/09	14/03/10	23/08/10	20/11/10	251 days
1032	Gas pipe works	90 days	15/12/09	14/03/10	23/08/10	20/11/10	251 days
1033	Pipe works to risers	90 days	14/01/10	13/04/10	06/09/10	04/12/10	235 days
1034	Storage water heater	90 days	28/01/10	27/04/10	20/09/10	18/12/10	235 days
1035	Water tank pumps	90 days	28/04/10	26/07/10	19/12/10	18/03/11	235 days
1036	Sanitary wares & fittings	21 days	06/07/10	26/07/10	26/02/11	18/03/11	235 days
1037	Jacuzzi on roof terrace (pen house)	30 days	07/07/10	05/08/10	27/02/11	28/03/11	235 days
1038	Gas connection to appliances	21 days	03/11/10	23/11/10	11/04/11	01/05/11	159 days
1039	T&C of PSG installations	14 days	27/04/11	10/05/11	30/05/11	12/06/11	33 days
1040	**Tower 5**	**556 days**	**06/11/09**	**15/05/11**	**06/06/10**	**12/06/11**	**28 days**
1041	Underground piping works	42 days	06/11/09	17/12/09	06/06/10	17/07/10	212 days
1042	Concealed pipe works	90 days	03/12/09	02/03/10	18/07/10	15/10/10	227 days
1043	Above ground hubless soil/waste pipes	90 days	01/02/10	01/05/10	16/09/10	14/12/10	227 days
1044	PPR pipe works	90 days	01/02/10	01/05/10	16/09/10	14/12/10	227 days
1045	Gas pipe works	90 days	01/02/10	01/05/10	16/09/10	14/12/10	227 days
1046	Pipe works to risers	90 days	18/03/10	15/06/10	31/10/10	28/01/11	227 days
1047	Storage water heater	90 days	02/05/10	30/07/10	15/12/10	14/03/11	227 days
1048	Water tank & pumps	90 days	31/07/10	28/10/10	15/03/11	12/06/11	227 days
1049	Sanitary wares & fittings	42 days	17/09/10	28/10/10	02/05/11	12/06/11	227 days
1050	Jacuzzi on roof terrace (pen house)	30 days	17/09/10	16/10/10	14/05/11	12/06/11	239 days
1051	Gas connection to appliances	42 days	24/11/10	04/01/11	02/05/11	12/06/11	159 days
1052	T&C of PSG installations	14 days	02/05/11	15/05/11	30/05/11	12/06/11	28 days
1053	**Tower 4**	**658 days**	**27/07/09**	**15/05/11**	**04/01/10**	**12/06/11**	**28 days**
1054	Underground piping works	42 days	27/07/09	06/09/09	06/06/10	17/07/10	314 days
1055	Concealed pipe works	90 days	15/11/09	12/02/10	04/01/10	03/04/10	50 days
1056	Above ground hubless soil/waste pipes	90 days	30/12/09	29/03/10	18/02/10	18/05/10	50 days
1057	PPR pipe works	90 days	30/12/09	29/03/10	18/05/10	15/08/10	139 days
1058	Gas pipe works	90 days	13/02/10	13/05/10	02/07/10	29/09/10	139 days
1059	Pipe works to risers	90 days	30/03/10	27/06/10	16/08/10	13/11/10	139 days
1060	Storage water heater	90 days	14/05/10	11/08/10	30/09/10	28/12/10	139 days
1061	Water tank & pumps	90 days	12/08/10	09/11/10	29/12/10	28/03/11	139 days
1062	Sanitary wares & fittings	42 days	29/09/10	09/11/10	15/02/11	28/03/11	139 days
1063	Jacuzzi on roof terrace (pen house)	30 days	29/09/10	28/10/10	27/02/11	28/03/11	151 days
1064	Gas connection to appliances	42 days	29/09/10	09/11/10	15/02/11	28/03/11	139 days
1065	T&C of PSG installations	14 days	02/05/11	15/05/11	30/05/11	12/06/11	28 days
1066	**Tower 1**	**395 days**	**06/05/10**	**04/06/11**	**30/05/10**	**12/06/11**	**8 days**
1067	Above ground hubless soil/waste pipes	160 days	06/05/10	12/10/10	30/05/10	05/11/10	24 days
1068	PPR pipe works	120 days	15/07/10	11/11/10	08/08/10	05/12/10	24 days
1069	Gas pipe works	120 days	14/08/10	11/12/10	07/09/10	04/01/11	24 days
1070	Pipe works to risers	120 days	28/09/10	25/01/11	22/10/10	18/02/11	24 days
1071	Storage water heater	120 days	12/11/10	11/03/11	06/12/10	04/04/11	24 days
1072	water tanks	145 days	17/11/10	10/04/11	11/12/10	04/05/11	24 days
1073	Sanitary wares & fittings	45 days	27/03/11	10/05/11	20/04/11	03/06/11	24 days
1074	Jacuzzi on roof terrace (pen house)	14 days	16/04/11	29/04/11	10/05/11	23/05/11	24 days
1075	Gas connection to appliances	45 days	27/03/11	10/05/11	29/04/11	12/06/11	33 days
1076	T&C of PSG installations	14 days	22/05/11	04/06/11	30/05/11	12/06/11	8 days
1077	**FIRE PROTECTION**	**540 days**	**30/12/09**	**22/06/11**	**18/02/10**	**11/08/11**	**50 days**
1078	**Auto-matic fire alarm system**	**416 days**	**03/05/10**	**22/06/11**	**04/08/10**	**11/08/11**	**50 days**
1079	Fire resistant signal cables	120 days	03/05/10	30/08/10	04/08/10	01/12/10	93 days
1080	Sub fire alarm panels	60 days	31/08/10	29/10/10	02/12/10	30/01/11	93 days
1081	Main fire alarm indicator	30 days	30/10/10	28/11/10	31/01/11	01/03/11	93 days
1082	Smoke detectors	90 days	29/11/10	26/02/11	02/03/11	30/05/11	93 days
1083	Digital communication DECAM	60 days	24/04/11	22/06/11	13/06/11	11/08/11	50 days

ID	Task Name	Duration	Start	Finish	Late Start	Late Finish	Finish Slack
1084	Fire hose reel system	480 days	30/12/09	23/04/11	18/02/10	12/06/11	50 days
1085	Fire hose reel pipes	270 days	30/12/09	25/09/10	18/02/10	14/11/10	50 days
1086	Swivel type fire hose reel	150 days	26/09/10	22/02/11	15/11/10	13/04/11	50 days
1087	Hose reel pumps & access.	150 days	25/11/10	23/04/11	14/01/11	12/06/11	50 days
1088	Dry Riser system	420 days	30/12/09	22/02/11	18/05/10	30/05/11	97 days
1089	Dry riser main to roof	270 days	30/12/09	25/09/10	18/05/10	11/02/11	139 days
1090	Landing valves for dry riser system	270 days	26/02/10	24/11/10	17/07/10	12/04/11	139 days
1091	Breeching inlet for dry rising mains	21 days	02/02/11	22/02/11	10/05/11	30/05/11	97 days
1092	Fire Hydrant System	37 days	14/05/10	19/06/10	06/06/10	12/07/10	23 days
1093	Underground pipe works	30 days	14/05/10	12/06/10	06/06/10	05/07/10	23 days
1094	Fire hydrant	7 days	13/06/10	19/06/10	06/07/10	12/07/10	23 days
1095	T&C Fire Protection	14 days	26/02/11	11/03/11	31/05/11	11/08/11	153 days
1096	T& C for Fire Protection System	13 days	27/02/11	11/03/11	31/05/11	12/06/11	93 days
1097	T&C of Fire Hydrant	14 days	26/02/11	11/03/11	29/07/11	11/08/11	153 days
1098	SWIMMING POOL & WATER FEATURE FILTRATION AND CIRCULATION SYSTEM	735 days	10/07/09	14/07/11	21/09/09	21/07/11	7 days
1099	Concealed pipes works	300 days	10/07/09	05/05/10	21/09/09	17/07/10	73 days
1100	Pipe work from overflow channel to balancing tank to pump room	180 days	06/05/10	01/11/10	18/07/10	13/01/11	73 days
1101	Filtration pump, equipment & access.	90 days	02/11/10	30/01/11	14/01/11	13/04/11	73 days
1102	Control Panels, DBs	90 days	02/11/10	30/01/11	14/01/11	13/04/11	73 days
1103	Underwater Luminaries	14 days	31/01/11	13/02/11	14/04/11	27/04/11	73 days
1104	T&C of Swimming Pool & Water Feature	14 days	01/07/11	14/07/11	08/07/11	21/07/11	7 days
1105							
1106	EXTERNAL WORKS	365 days	28/06/10	27/06/11	13/07/10	13/07/11	16 days
1107	Structural Works	336 days	28/06/10	29/05/11	13/07/10	13/07/11	45 days
1108	Drainage	150 days	28/06/10	24/11/10	13/07/10	09/12/10	15 days
1109	Driveway/Fire Engine access road	150 days	28/06/10	24/11/10	13/07/10	09/12/10	15 days
1110	Road base construction	60 days	25/11/10	23/01/11	10/12/10	07/02/11	15 days
1111	Drain cell construction	60 days	24/01/11	24/03/11	08/02/11	08/04/11	15 days
1112	Driveway/Fire Engine Access Road finishes	90 days	07/02/11	07/05/11	22/02/11	22/05/11	15 days
1113	Lap Pool /Children Pool	90 days	25/12/10	24/03/11	22/03/11	19/06/11	87 days
1114	BBQ Pit Area	60 days	24/01/11	24/03/11	21/04/11	19/06/11	87 days
1115	Clubhouse / Gym	90 days	07/02/11	07/05/11	22/02/11	22/05/11	15 days
1116	Water Features	60 days	24/01/11	24/03/11	15/05/11	13/07/11	111 days
1117	Guard House	30 days	08/04/11	07/05/11	21/05/11	19/06/11	43 days
1118	Culvert	91 days	28/02/11	29/05/11	14/04/11	13/07/11	45 days
1119	Diversion of Entrance	30 days	28/02/11	29/03/11	14/04/11	13/05/11	45 days
1120	Culvert / Box Drain Construction	30 days	30/03/11	28/04/11	14/05/11	12/06/11	45 days
1121	Boundary Walls	90 days	05/02/11	05/05/11	06/02/11	06/05/11	1 day
1122							
1123	Architectural Works	230 days	10/11/10	27/06/11	17/11/10	12/07/11	15 days
1124	Lap Pool / Children Pool	198 days	10/11/10	26/05/11	17/11/10	02/06/11	7 days
1125	Waterproofing system	45 days	10/11/10	24/12/10	17/11/10	31/12/10	7 days
1126	Finishes	120 days	25/12/10	23/04/11	01/01/11	30/04/11	7 days
1127	Grab rails	14 days	24/04/11	07/05/11	01/05/11	14/05/11	7 days
1128	Pool Depth Markers	14 days	13/05/11	26/05/11	20/05/11	02/06/11	7 days
1129	Swimming Pool Deck	183 days	24/11/10	25/05/11	09/01/11	07/07/11	43 days
1130	Waterproofing system	60 days	24/11/10	22/01/11	09/01/11	09/03/11	46 days
1131	Finishes	120 days	23/01/11	22/05/11	10/03/11	07/07/11	46 days
1132	Timber Deck	18 days	08/05/11	25/05/11	20/06/11	07/07/11	43 days
1133	Landscape Works	180 days	10/11/10	08/05/11	24/11/10	12/06/11	35 days
1134	Water Proofing system	90 days	10/11/10	07/02/11	24/11/10	21/02/11	14 days
1135	Sub soil drainage system	120 days	10/11/10	09/03/11	24/11/10	23/03/11	14 days
1136	Top Soil	150 days	10/11/10	08/04/11	24/11/10	22/04/11	14 days
1137	Plants, Shrubs & Turf	150 days	10/12/10	08/05/11	14/01/11	12/06/11	35 days
1138	BBQ Pit area	65 days	09/04/11	12/06/11	23/04/11	30/06/11	18 days
1139	Roof finishes	21 days	09/04/11	29/04/11	23/04/11	13/05/11	14 days
1140	Finishes	30 days	30/04/11	29/05/11	18/05/11	16/06/11	18 days
1141	BBQ Grilles	14 days	30/05/11	12/06/11	17/06/11	30/06/11	18 days
1142	Playground area	76 days	16/03/11	29/05/11	30/03/11	12/06/11	14 days
1143	Rubber Mat	45 days	16/03/11	29/04/11	30/03/11	13/05/11	14 days
1144	Playground Equipment	30 days	30/04/11	29/05/11	14/05/11	12/06/11	14 days
1145	Clubhouse/Gym	51 days	08/05/11	27/06/11	23/05/11	12/07/11	15 days
1146	Walls, Windows and doors	30 days	08/05/11	06/06/11	23/05/11	21/06/11	15 days

MEADOWS @ PEIRCE
MASTER CONSTRUCTION PROGRAM
REVISION 7(R)

PREPARED BY: VOON KIM LOON
APPROVED BY: LEONG CHEE KENG
DATE: 23 OCTOBER 2009

ID	Task Name	Duration	Start	Finish	Late Start	Late Finish	Finish Slack
1147	Roof Finishes and Rain water goods	30 days	15/05/11	13/06/11	30/05/11	28/06/11	15 days
1148	External finishes	30 days	15/05/11	13/06/11	30/05/11	28/06/11	15 days
1149	Internal finishes with special lightings	30 days	29/05/11	27/06/11	13/06/11	12/07/11	15 days
1150	Gym Equipment	30 days	29/05/11	27/06/11	13/06/11	12/07/11	15 days
1151	**Water features**	135 days	10/11/10	24/03/11	23/12/10	06/05/11	43 days
1152	Waterproofing system	45 days	10/11/10	24/12/10	23/12/10	05/02/11	43 days
1153	Internal/External finishes	90 days	25/12/10	24/03/11	06/02/11	06/05/11	43 days
1154	**Guard House**	93 days	24/01/11	26/04/11	29/01/11	01/05/11	5 days
1155	Roof finishes and rain water goods	30 days	24/01/11	22/02/11	29/01/11	27/02/11	5 days
1156	Walls, windows & door	21 days	23/02/11	16/03/11	28/02/11	20/03/11	5 days
1157	External finishes	21 days	16/03/11	05/04/11	21/03/11	10/04/11	5 days
1158	Internal Finishes	21 days	06/04/11	26/04/11	11/04/11	01/05/11	5 days
1159	**Boundary walls**	157 days	06/01/11	11/06/11	07/01/11	12/06/11	1 day
1160	Bricks	120 days	06/01/11	05/05/11	07/01/11	06/05/11	1 day
1161	Finishes	30 days	06/05/11	04/06/11	07/05/11	05/06/11	1 day
1162	Gates	7 days	05/06/11	11/06/11	06/06/11	12/06/11	1 day
1163	**M&E Works**	286 days	26/08/10	07/06/11	20/09/10	12/06/11	5 days
1164	**Underground Pipe Works**	224 days	26/08/10	06/04/11	20/09/10	01/05/11	25 days
1165	Soil Waste Pipe Works	90 days	26/08/10	23/11/10	20/09/10	18/12/10	25 days
1166	Water Pipe Works	90 days	09/09/10	07/12/10	04/10/10	01/01/11	25 days
1167	Rain Water Pipe Works	90 days	09/09/10	07/12/10	04/10/10	01/01/11	25 days
1168	Electrical Services	120 days	08/12/10	06/04/11	02/01/11	01/05/11	25 days
1169	**Guard House**	42 days	27/04/11	07/06/11	02/05/11	12/06/11	5 days
1170	Electrical Panel	7 days	27/04/11	03/05/11	02/05/11	08/05/11	5 days
1171	Fire Alarm Panel	7 days	04/05/11	10/05/11	09/05/11	15/05/11	5 days
1172	Lift Supervisory Panel	7 days	11/05/11	17/05/11	16/05/11	22/05/11	5 days
1173	Security System	7 days	18/05/11	24/05/11	23/05/11	29/05/11	5 days
1174	Pump Monitory Panel	7 days	25/05/11	31/05/11	30/05/11	05/06/11	5 days
1175	MV Monitory Panel	7 days	01/06/11	07/06/11	06/06/11	12/06/11	5 days
1176							
1177	**PRE TOP INSPECTION**	150 days	29/03/11	25/08/11	29/03/11	25/08/11	0 days
1178	Power turn on	15 days	29/03/11	12/04/11	29/03/11	12/04/11	0 days
1179	Internal testing of electrical sys. For low rise apart. Units	60 days	13/04/11	11/06/11	13/04/11	11/06/11	0 days
1180	Testing of apart. Units by SP services	20 days	16/05/11	04/06/11	24/05/11	12/06/11	8 days
1181	Apart. Electrical sub-meter installation	60 days	05/06/11	03/08/11	13/06/11	11/08/11	8 days
1182	Obtain certificates for broadband readiness	30 days	13/04/11	12/05/11	24/04/11	23/05/11	11 days
1183	T&C to AC equipments to apts	120 days	29/03/11	26/07/11	14/04/11	11/08/11	16 days
1184	Water turn on inspection	18 days	13/06/11	30/06/11	13/06/11	30/06/11	0 days
1185	Apart. Water Sub meter installation	42 days	01/07/11	11/08/11	01/07/11	11/08/11	0 days
1186	Sanitary inspection	42 days	01/07/11	11/08/11	01/07/11	11/08/11	0 days
1187	Gas inspection	30 days	13/07/11	11/08/11	13/07/11	11/08/11	0 days
1188	Gas charge in	14 days	12/08/11	25/08/11	12/08/11	25/08/11	0 days
1189	**TOP**	71 days	22/07/11	30/09/11	22/07/11	30/09/11	0 days
1190	RI inspection (M&E)	7 days	22/07/11	28/07/11	22/07/11	28/07/11	0 days
1191	RI inspection (Arch)	7 days	29/07/11	04/08/11	29/07/11	04/08/11	0 days
1192	BCA inspection	7 days	25/08/11	31/08/11	25/08/11	31/08/11	0 days
1193	Obtain TOP	30 days	01/09/11	30/09/11	01/09/11	30/09/11	0 days
1194	**Certificate Statutory Completion**	7 days	24/09/11	30/09/11	24/09/11	30/09/11	0 days
1195	Lift Licensing	7 days	24/09/11	30/09/11	24/09/11	30/09/11	0 days
1196	Swimming Pool Licensing	7 days	24/09/11	30/09/11	24/09/11	30/09/11	0 days

SECTION 4

PROGRAMME

4.2 Authority Submission Status for M&E Services - 1st Submission

Service	Authority	Original Submission		Comments/Resubmission						Approval/
		Scheduled	Actual	Comment	Resubmit	Comment	Resubmit	Comment	Resubmit	Clearance
Application for Electricity Supply	SP Services Ltd		25/2/08							10/3/08
Power Supply Substation	SP PowerGrid Ltd	15/1/09	11/2/09	20/2/09	1/6/09	11/6/09	25/6/09	-	15/3/10	7/7/09
Metering Layout	SP Services Ltd									
Sanitary Installation	PUB Water Reclamation (Network) Dept	10/2/10	11/2/10	17/2/10	1/4/10					9/4/10
Domestic Water Supply	PUB (Water Supply) Network Dept	5/1/10	29/12/09	19/1/10	8/2/10					8/3/10
Gas Supply Installation	City Gas Pte Ltd	30/10/09	21/10/09	4/11/09	30/11/09					21/1/10
Air Conditioning & Ventilation Inst.	FSSD	1/3/11								
Fire Fighting & Alarm Installation	FSSD	1/4/11								
Telephone Installation	TFCC	30/7/09	22/7/09							12/8/09
Broadband Co-axial Cable System (BCS)	Starhub Cable Vision									
Fuel Storage	FSSD									
	NEA (Pollution Control)									

SECTION 4

PROGRAMME

4.3 Authority Submission Status for M&E Services (Amendments) - 2nd Submission – NOT USED

Service	Authority	Original Submission		Comments/Resubmission						Approval/
		Scheduled	Actual	Comment	Resubmit	Comment	Resubmit	Comment	Resubmit	Clearance
Application for Electricity Supply	SP Services Ltd									
Power Supply Substation	SP PowerGrid Ltd									
Metering Layout	SP Services Ltd									
Sanitary Installation	PUB Water Reclamation (Network) Dept									
Domestic Water Supply	PUB (Water Supply) Network Dept									
Gas Supply Installation	City Gas Pte Ltd									
Air Conditioning & Ventilation Inst.	FSSD									
Fire Fighting & Alarm Installation	FSSD									
Telephone Installation	TFCC									
Broadband Co-axial Cable System (BCS)	Starhub Cable Vision									
Fuel Storage	FSSD									
	NEA (Pollution Control)									

SECTION 5

PROJECT RECORDS

5.1 List of Internal Files

Standard Files

File Ref:		File Ref:	
- Owner	✓	- Architect	✓
- Authorities	✓	- Other Consultants	✓
- Contractors	✓	- CC	
- CF	✓	- PQP/QSP	✓

Project Files to be initiated by PM as and when required

File Ref:		File Ref:		File Ref:	
- PP/VO	✓				
- EC/MC	✓				

(✓*where applicable*)

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	Soft copy – server
Incoming Architectural Sketches/Details	Hard copy - LCY
Incoming Structural Drawings	Hard Copy - KK
M&E Drawings	
- Electrical Installation	Lim Chai Hoon (LCY)
- Lift & Escalator Installation	Lim Chai Hoon (LCY)
- Air Conditioning & Ventilation Installation	Kevin Kee (KK)
- Fire Fighting & Alarm Installation	Kevin Kee (KK)
- Plumbing & Sanitary Installation	Kevin Kee (KK)
- Swimming Pool & Filtration Installation	Kevin Kee (KK)
Other Drawings	
- Landscape Drawings	Soft copy – server Hard copy – KK

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	A/C	C	C	-	
b.	Project Administration	-	-	-	-	-	
c.	Project Cost Estimate/Contract Cost	I	I	I	-	I	
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	A	A/C	I	-	I	
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 : ACEPL Site Staff

SECTION 8

DESIGN INPUT & METHODOLOGY

8.1 List of Client's Standards, Reference Documents or Brief – NOT USED

ITEM	KEPT BY

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			
~~Sprinkler System~~	~~BS~~	~~SS~~	~~NFPA~~	~~AS~~	~~LPC~~
~~Wet Riser System~~	~~BS~~	~~SS~~	~~NFPA~~	~~AS~~	~~MS~~
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~~	
~~Boiler and Steam Supply System~~	~~ASME~~	~~BS~~	~~AS~~		
~~Mechanical Smoke Control System~~	~~BS~~	~~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 Consulting Engineers Pte Ltd's Quality Management System Procedures

Section	Title	✓ where applicable
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 & Environmental 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	
QE1	Quality & Environmental System Audit	✓
QE2	Feedback Reporting	✓
QE3	Clients Feedback	✓
QE4	Management Review	

8.5 List of Software Used For Design/Analysis – NOT USED

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 Consulting Engineers Pte Ltd	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 Consulting Engineers Pte Ltd	Calculation of voltage drop and fault level	

(✓*where applicable*)

SECTION 9

ENVIRONMENTAL CONSIDERATIONS

9.1 Sustainable Design Features / Criteria

Item	Remarks
Green Mark criteria	✓
Green Design Features	✓

9.2 Site PPE Requirement

The necessary Personal Protective Equipment (detailed below) shall be provided by the main contractor / Company in accordance to the site EHS requirements prior to the site monitoring.

PPE	✓ where applicable
Safety Helmet	✓
Safety Shoes	✓
Eye Protection	✓
Ear Protection	✓
Safety Harness / Belt	✓
Others:	

9.3 Site Emergency Preparedness

Site staff shall comply with the site emergency preparedness and response procedure, established by the main contractor / owner, which shall include the following details.

Items	✓ where applicable
Evacuation Route	✓
Emergency Exit	✓
Assembly Point	✓
Emergency Contact List / Person	✓
Alarm system / methods	✓

SECTION 9

ENVIRONMENTAL CONSIDERATIONS

9.4 Reporting of Environmental Non-conformances

When encountering environmental non-conformances, Site Staff shall be responsible to feedback to the main contractor.

9.5 List of Applicable Environmental management system Procedures

Alpha Consulting Engineers Pte Ltd's Environmental Management System Procedures

Section	Title	✓ where applicable
E1	Aspect / Impact Identification, Risk Assessment & Risk Control	✓
E2	Identifying Legal & Other Requirements	✓
E3	Objectives, Targets & Programmes	✓
E4	Communication	✓
E5	Emergency Preparedness & Response	✓
E6	Monitoring & Measurement	✓
E7	Control of Air & Noise Pollution	✓
E8	Management of Wastes	✓

SECTION 10

CLIENT'S REQUIREMENTS

10.1 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	I
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.

10.2 Specific Procedures Required By Client *(If applicable)*

NOT USED

SECTION 11

LIST OF SUB-JOB

11.1 List of Sub-Job Numbers – NOT USED

Sub Job No	Description	Allocation Details