Alpha
Consulting Engineers Pte Ltd

PROJECT QUALITY PLAN

THE REEF AT KING'S DOCK

For

HARBOURFRONT THREE PTE LTD

Copy No.	1

Prepared By : Yip Yoke Fun/Thin Thin Tun

Authorised By : Loh Fook Yuen

Date : 5 December 2023

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SECTION 1

QUALITY PLAN CONTROL AND DISTRIBUTION

1.1 List of Copy Holders

Copy No.	Copy Holder	Date of Issue
1	6270	5 December 2023

1.2 Revision Record

Revision	Date of Issue	Section Reference	Page(s)	Remarks
0	13 May 2019	1 to 11	29	–
1	29 October 2019	1 to 11	29	+ 1 page (Section 9.1 – Sustainable Design Features/Criteria)
2	6 January 2021	1 to 11	30	+ 1 page (Section 9.1 – Sustainable Design Features/Criteria)
3	10 August 2021	1 to 11	42	+ 20 pages (Section 4.1 – Construction Master Programme) + 1 page (Section 9.1 – Sustainable Design Features/Criteria)
4	28 September 2022	1 to 11	31	+ 20 pages (Section 4.1 – Construction Master Programme) + 1 page (Section 9.1 – Sustainable Design Features/Criteria)
5	5 December 2023	1 to 11	31	+ 20 pages (Section 4.1 – Construction Master Programme) + 1 page (Section 9.1 – Sustainable Design Features/Criteria)

SECTION 2

PROJECT INFORMATION

2.1 Project Description

Type of Development	Residential

Statistics of Development	
Site Area, m²	28,579.30
Nett Floor Area, m²	-
Gross Floor Area, m²	32,000
Covered Carpark, m²	14,000
No. of Covered Carpark Lots	429
No. of Apartments/Houses	429
No. of Beds (for Hospitals)	-
No. of Guestroom (for Hotels)	-
No. of Blocks / No. of Storeys	10 Blocks/2/3/5/7/8/11 Storeys
Green Mark Category	Green Mark Gold Plus
No. of Phases	1

2.2 Project Cost

M&E Services Cost Plan (S$ x 1M)										
Services	EI	ACVI	LEI	FFAI	PSI	SPFI				
Estimate	9.364	10.5	3.12	1.65	8.036	1				
Awarded	7.26	4.6	2.398	1.2	6.1	0.678				

Total Project Construction Cost (S$ x1M)			
	Site Clearance	Piling Works	Main Contract
Estimate			140
Awarded			205.038

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

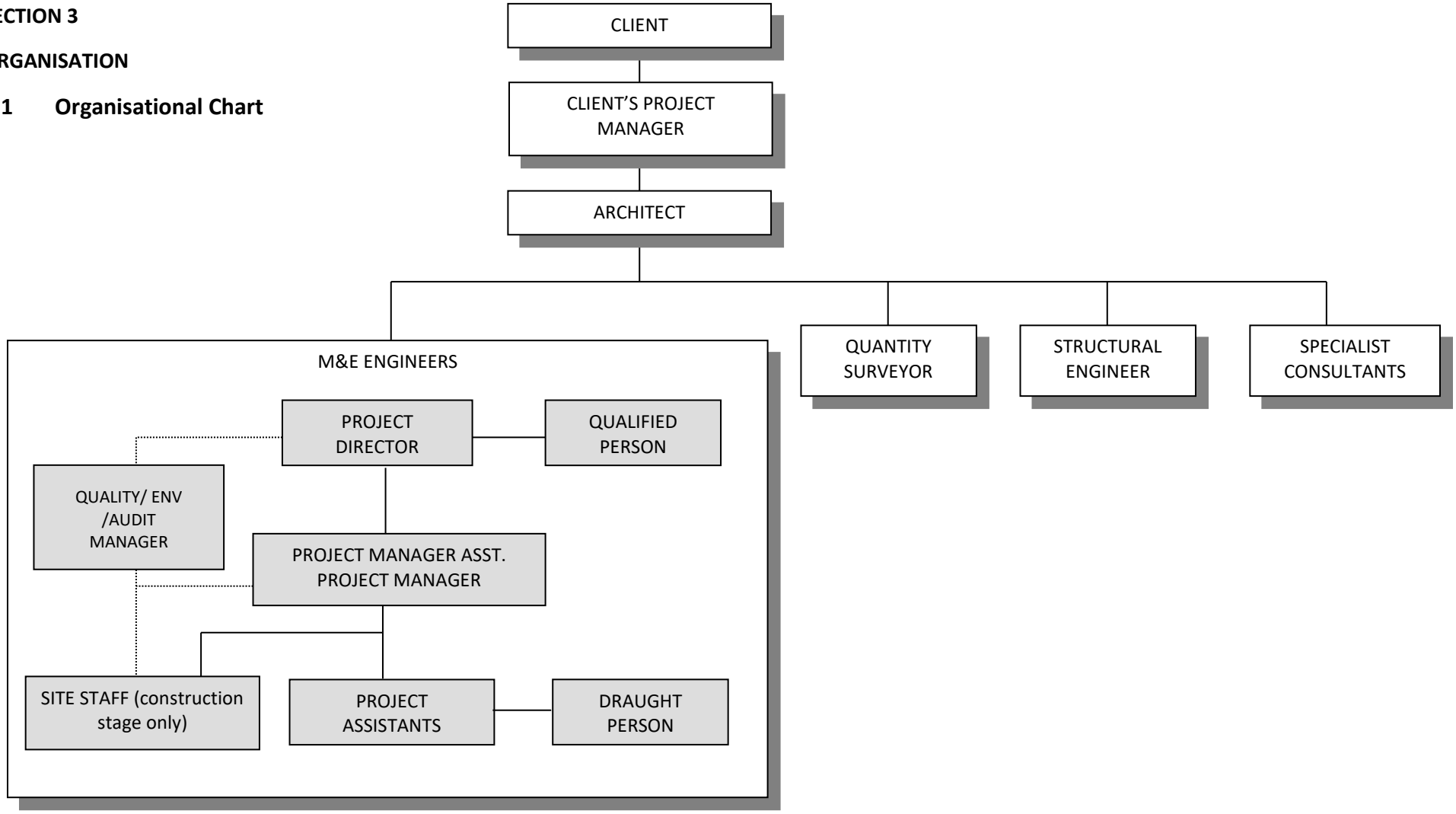
EJECTOR & DIVERTER	✓	SUMP PUMP	✓	FUEL OIL TANK		LIFT & ESCALATOR	✓	PRESSURE VESSEL		HOISTS		FOAM	

(✓*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	Choong Choon Guan (CCG)
	Electrical	Loh Fook Yuen (LFY)
Project Manager		Yip Yoke Fun (YYF)
Assistant Project Manager		–
Project Assistant (Mech)		–
Project Assistant (Elect)		Thin Thin Tun (TTT)
Draughtsperson		Common Pool
Resident Engineer (M&E)		
Assistant Resident Engineer (M&E)		
Clerk-of-Work (M&E)		Ko Kok Chueen

3.3 Client/Client's Representatives

Client : Harbourfront Three Pte Ltd

Address : 1 Harbourfront Avenue
Level 2 Keppel Bay Tower
Singapore 098632

Tel : 6803 2694

Fax : 6337 7206

Client's Representatives: Mr Tan Li Hong

Client : Woh Hup (Private) Limited

Address : 217 Upper Bukit Timah Road
Woh Hup Building
Singapore 588185

Tel : 6385 8585

Fax : 6272 3322

Client's Representatives: Mr Tan Beng Chwee

Name of Company	Contact Person	Contact
Harbourfront Three Pte Ltd	Name: Mr Tan Li Hong Position: Project Manager	Tel: 6803 2694 Fax: 6337 7206 Handphone: 8666 3703 Email: lihong.tan@keppelland.com
Woh Hup (Private) Limited	Name: Mr Tan Beng Chwee Position: Director	Tel: 6385 8585 Fax: 6272 3322 Handphone: 9299 2584 Email: tan_bengchwee@wohhup.com
	Name: Position:	Tel: Fax: Handphone: Email:
	Name: Position:	Tel: Fax: Handphone: Email:
	Name: Position:	Tel: Fax: Handphone: Email:

3.4 **Other Consultants** (Local)

Function / Name of Company	Contact Person	Contact
Architect DCA Architects Pte Ltd	Name: Mr Sim Ming Howe Position: Director	Tel: 6225 5366 Fax: 6225 4288 Handphone: 8133 8126 Email: 632KP4@dca-architects.com
Quantity Surveyor Arcadis Singapore Pte Ltd	Name: Mr Eric Pau Position: Director	Tel: 6222 3888 Fax: 6224 7089 Handphone: – Email: SGQS6894@arcadis.com
Structural Engineer Aurecon Singapore (Pte) Ltd	Name: Mr Mak Wai Choong Position: Technical Director	Tel: 6412 9486 Fax: 6251 7188 Handphone: 90378487 Email: waichoong.mak@aurecongroup.com
Interior Designer Index Design Pte ltd	Name: Mr Vincent Lim Position: Designer	Tel: 6220 1002 Fax: 6334 7262 Handphone: 9655 9737 Email: pm-kbp4@index.com.sg
Lighting Consultant Light Collab	Name: Ms Toh Yah Li Position: Principal	Tel: 6635 7511 Fax: – Handphone: 9362 0642 Email: yahli@lightcollab.com
Acoustic Consultant Arup Singapore Pte Ltd	Name: Mr Daniel Wong Position: Acoustic Consultant	Tel: 6411 2500 Fax: 6411 2501 Handphone: – Email: daniel-jf.wong@arup.com
Landscape Consultant Grant Associates Singapore Pte Ltd	Name: Mr Stefaan Lambreghts Position: Director	Tel: 6221 3596 Fax: 6221 4272 Handphone: – Email: sl@grant-associates.com.sg
Marine Structural Consultant Delta Marine Consultants Singapore Pte Ltd	Name: Ms Jayce Tang Position: Senior Engineer	Tel: 6294 3033 Fax: 6299 9283 Handphone: – Email: projects.dmc@dmc.nl
Marine Biodiversity Consultant DHI Water & Environment (S) Pte Ltd	Name: Ms Wee Shi Yi Crystle Position: Associate Environmental Consultant	Tel: 6777 6330 Fax: 6777 3537 Handphone: – Email: wsyc@dhigroup.com
Façade Consultant Meinhardt Façade Technology (S) Pte Ltd	Name: Mr Takahashi Masatoshi Position: Principal Designer	Tel: 6238 9730 Fax: 6736 1542 Handphone: 9765 9880 Email: takahashi.m@mfacade.com

3.4 **Other Consultants** (Local)

Function / Name of Company	Contact Person	Contact
Green Mark Consultant Arup Singapore Pte Ltd	Name: Mr Majal Dag Position: Consultant	Tel: 6411 2500 Fax: 6411 2501 Handphone: – Email: majal.dag@arup.com
_____	Name: Position:	Tel: – Fax: – Handphone: – Email: –
_____	Name: Position:	Tel: – Fax: – Handphone: – Email: –
_____	Name: Position:	Tel: – Fax: – Handphone: – Email: –
_____	Name: Position:	Tel: – Fax: – Handphone: – Email: –
_____	Name: Position:	Tel: – Fax: – Handphone: – Email: –
_____	Name: Position:	Tel: – Fax: – Handphone: – Email: –
_____	Name: Position:	Tel: – Fax: – Handphone: – Email: –
_____	Name: Position:	Tel: – Fax: – Handphone: – Email: –

3.4 **Other Consultants** (Overseas)

Function / Name of Company	Contact Person	Contact
Architect KCAP Architects & Planners	Name: Mr Andraz Intihar Position:	Tel: +41 (0)44 552 23 61 Fax: – Handphone: – Email: plot4@kcap.eu
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: –
_____	Name: Position:	Tel: – Fax: – Handphone: – Email: –

3.5 Contractors/Sub-Contractors

Function / Name of Company	Contract *	Contact Person	Contact
Main Contractor Woh Hup (Private) Limited		Name: Mr Tan Beng Chwee Position: Director	Tel: 6385 8585 Fax: 6272 3322 Handphone: 9299 2584 Email: tan_bengchwee@wohhup.com
Air Conditioning & Ventilation Installation Sub-Contractor SAS M&E Pte Ltd	DSC	Name: Mr Teh Wei Sin Position: General Manager	Tel: 6336 0066 Fax: 6338 0518 Handphone: 9788 3556 Email: project@sasme.com.sg
Plumbing & Sanitary Installation Sub-Contractor Wang Kok Sewerage Construction Pte Ltd	DSC	Name: Mr Moe Zaw Position: Project Manager	Tel: 6280 7823 Fax: 6382 4371 Handphone: 9386 5445 Email: wangkok@singnet.com.sg
Electrical Installation Sub-Contractor BNL Engineering Pte Ltd	DSC	Name: Mr Freddy Tan Hui Meng Position: Project Manager	Tel: 6684 8428 Fax: 6684 8598 Handphone: 9671 7159 Email: freddy.tan@bnlengrg.com
Lift & Escalator Installation Sub-Contractor Kone Pte Ltd	DSC	Name: Mr Kelvin Soh Position: Senior Sales Engineer	Tel: 6424 8996 Fax: 6424 6346 Handphone: 8777 3613 Email: kelvin.soh@kone.com
Fire Fighting & Alarm Installation Sub-Contractor Sprinkler Engineering Pte Ltd	DSC	Name: Mr Tan Tiong Hin Position: General Manager	Tel: 6453 1488 Fax: 6453 7655 Handphone: 9780 0452 Email: sprinkler@singnet.com.sg
Swimming Pool Filtration Plant Installation Sub-Contractor Aquatech Products & Services Pte Ltd	DSC	Name: Mr Eric Sim Position: Project Manager	Tel: 6842 1188 Fax: 6842 0168 Handphone: 9875 6082 Email: aquatech@singnet.com.sg
Carpark System Installation Sub-Contractor		Name: Position:	Tel: – Fax: – Handphone: – Email: –
Home Automatic System Sub-Contractor Habitap Pte Ltd		Name: Mr Franklin Tang Position: Chief Executive Officer	Tel: 6569 9025 Fax: – Handphone: 9848 3125 Email: franklin.tang@tangs.net

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

3.6 Authorities

Authorities/Department	Contact Person	Tel/Fax Nos./E-mail
SP PowerGrid: (a) Sub-Station	Mr Mohamad Hafiz	6916 5274
(b) Diversion		
SP Services: (a) Customer Supply		
(b) Installation		
(c) Meter Section		
(d) Road Lighting		
TFCC: (a) SCV		
(b) SingTel		
(c) IMDA	Mr Seah Koon Chye	6211 1751
BCA: (a) Building Plan	Ms Christina Seet	6804 4275
(b) Green Mark	Ms Lee Sui Fung	6804 4716
FSSD: (a) Building Plan	Mr Tan Chiew Sia	6848 1414
(b) M&E Plan	Mr Muhammad Izwan Ibrahim	6848 1413
PUB (Water Supply) Network Dept: (a) Water Conservation		
(b) Plumbing Plan	Ms Pavithra Krishnan	9862 5830
(c) Diversion		
(d) NEWater		
PUB Water Reclamation (Network) Dept: (a) Building Plan/CBPU	Mr Gwee Yew Beng/Mr Ler Seng Chye	6731 3249/6731 3264
(b) M&E Plan		
(c) Diversion		
City Gas Pte Ltd: (a) Planning/Submission	Mr Liew Khee Boon/Ms Eileen Loh	6578 7603/6578 7867
(b) Installation/Inspection	Mr Kamarulzaman	8123 0342
PowerGas Pte Ltd (a) Diversion		
NEA (Pollution Control) (a) Planning/Submission		
(b) Inspection		

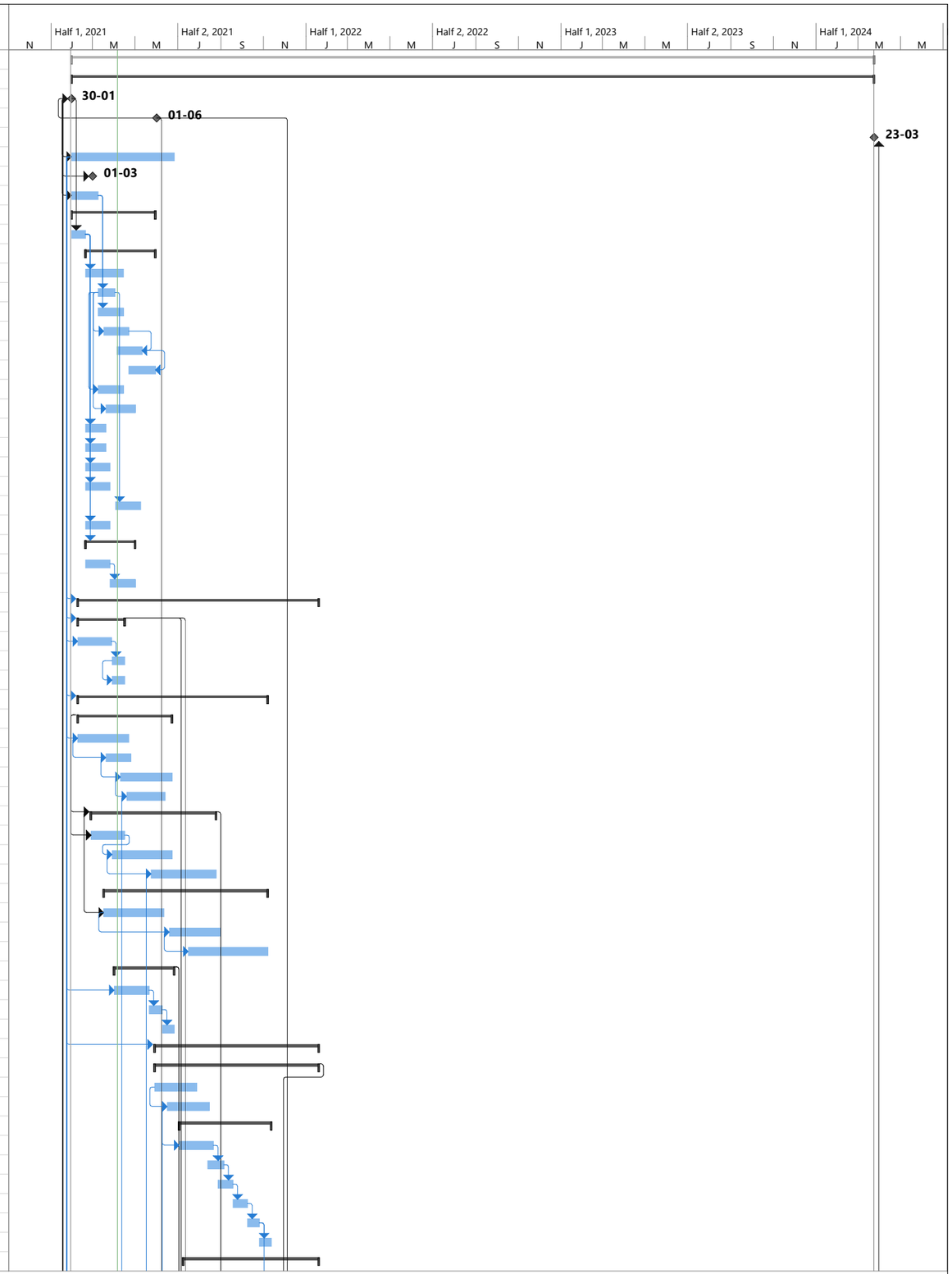
SECTION 4

PROGRAMME

4.1 Overall Programme – (Refer to attached Revised 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																									

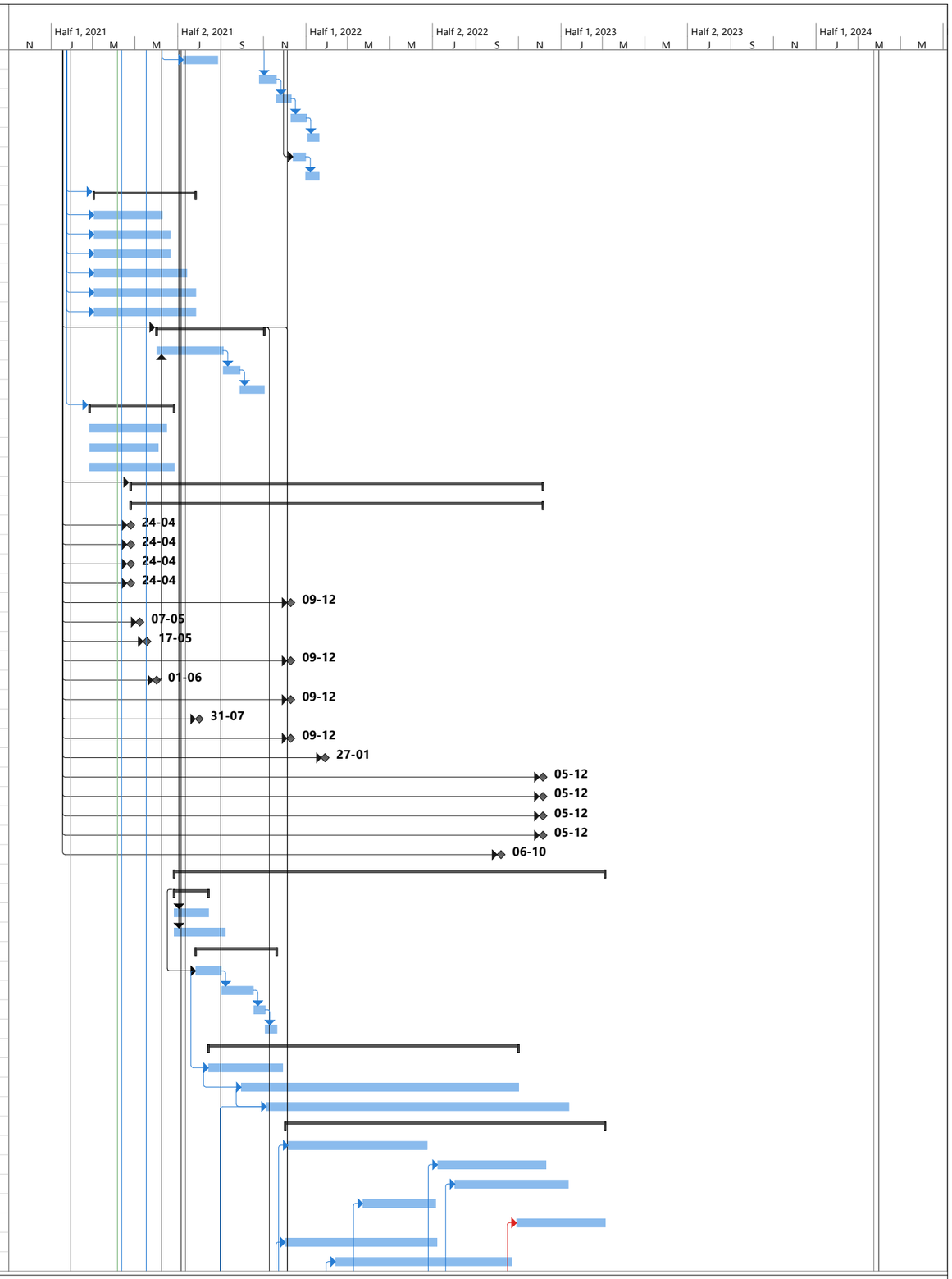
ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
0		**Master Programme_The Reef at King's Dock**	952 days	30-01-21	23-03-24	
1		**Project Key Dates (33.75 months)**	952 days	30-01-21	23-03-24	
2		Letter of Award	0 days	30-01-21	30-01-21	3SS-98 days
3		Contract Commencement	0 days	01-06-21	01-06-21	
4		Contract Completion	0 days	23-03-24	23-03-24	1189
5		Design Coordination	120 days	30-01-21	25-06-21	2SS
6		Site Possession	0 days	01-03-21	01-03-21	2SS
7		Site Mobilisation	30 days	30-01-21	08-03-21	2SS
8		Pre-Construction Works	97 days	30-01-21	29-05-21	
9		Insurance	15 days	30-01-21	18-02-21	2
10		Site Preparation	82 days	19-02-21	29-05-21	
11		Erection of Hoarding	45 days	19-02-21	13-04-21	9
12		Clearing of Existing Vegetations	21 days	09-03-21	01-04-21	7
13		Erection of Site Office	30 days	09-03-21	13-04-21	7
14		Set up of ECM & Perimeter Drain	30 days	17-03-21	21-04-21	12SS+7 days
15		Erection of Worker Rest Area	30 days	05-04-21	10-05-21	14FF+15 days
16		Erection of Washing Bay	30 days	22-04-21	29-05-21	15FF+15 days
17		Soil Investigation (SI)	30 days	09-03-21	13-04-21	12SS
18		Ultimate Load Test (ULT)	35 days	20-03-21	30-04-21	12SS+10 days
19		Pre-Condition Survey (include tunnel)	25 days	19-02-21	19-03-21	9
20		Pre-Computation Plan	25 days	19-02-21	19-03-21	9
21		Cable / Utilities Detection	30 days	19-02-21	25-03-21	9
22		Sewer CCTV survey	30 days	19-02-21	25-03-21	9
23		Tree Cutting and Removal	30 days	03-04-21	08-05-21	12
24		Tree Transplanting	30 days	19-02-21	25-03-21	9
25		Road Opening with Gates	60 days	19-02-21	30-04-21	9
26		Authority submissions	30 days	19-02-21	25-03-21	
27		Construction of Proposed Gate	30 days	26-03-21	30-04-21	26
28		Design Coordination, Submissions and Approvals	285 days	08-02-21	18-01-22	5SS+7 days
29		ERSS Design and AC Approval	55 days	08-02-21	15-04-21	5SS
30		Design	40 days	08-02-21	27-03-21	5SS
31		AC Checking & Approval	15 days	29-03-21	15-04-21	30
32		BCA Submission / Approval	15 days	29-03-21	15-04-21	31SS
33		Structural Design, Submission and Approval	225 days	08-02-21	06-11-21	5SS
34		Bored Piling	110 days	08-02-21	22-06-21	
35		Design	60 days	08-02-21	21-04-21	5SS
36		AC Checking & Approval	30 days	20-03-21	24-04-21	35SS+33 days
37		BCA Submission / Approval	60 days	10-04-21	22-06-21	36SS+17 days
38		Piling Permit Obtain	45 days	19-04-21	12-06-21	37SS+7 days
39		Pilecaps & Basement Slabs Design	147 days	27-02-21	24-08-21	34SS+10 days
40		Design	40 days	27-02-21	15-04-21	34SS+15 days
41		AC Checking & Approval	70 days	29-03-21	22-06-21	40FS-15 days
42		BCA Submission / Approval	77 days	24-05-21	24-08-21	41SS+45 days
43		Superstructure Design	195 days	17-03-21	06-11-21	
44		Design	70 days	17-03-21	10-06-21	39SS+15 days
45		AC Checking & Approval	60 days	19-06-21	30-08-21	44SS+77 days
46		BCA Submission / Approval	95 days	16-07-21	06-11-21	45SS+23 days
47		PBU	70 days	01-04-21	25-06-21	
48		Design	40 days	01-04-21	20-05-21	5SS+50 days
49		AC Checking & Approval	15 days	21-05-21	08-06-21	48
50		BCA Submission / Approval	15 days	09-06-21	25-06-21	49
51		Façade Works (Aluminium Works)	196 days	29-05-21	18-01-22	5SS+20 days
52		Design & Coordination	196 days	29-05-21	18-01-22	
53		Submission and approval of samples	50 days	29-05-21	27-07-21	
54		Submission and approval of Shop Drawings	50 days	16-06-21	14-08-21	53SS+15 days
55		Visual Mock-Up(VMU)	110 days	03-07-21	11-11-21	
56		Design Coordination	40 days	03-07-21	20-08-21	54SS+15 days
57		Procurement	20 days	13-08-21	04-09-21	56FS-7 days
58		Fabrication	18 days	28-08-21	17-09-21	57FS-7 days
59		Installation	18 days	18-09-21	08-10-21	58
60		Mock-up review	14 days	09-10-21	25-10-21	59
61		2nd Mock-up review	14 days	26-10-21	11-11-21	60
62		Performance Mock-Up (PMU)	161 days	09-07-21	18-01-22	



Proj: Master Programme_The Reef at King's Dock
Proj Reference: MP/RKD/02/21
Date: 06 April 2021

Task	Summary	Inactive Milestone	Duration-only	Start-only	External Milestone	Critical Split
Split	Project Summary	Inactive Summary	Manual Summary Rollup	Finish-only	Deadline	Progress
Milestone	Inactive Task	Manual Task	Manual Summary	External Tasks	Critical	Manual Progress

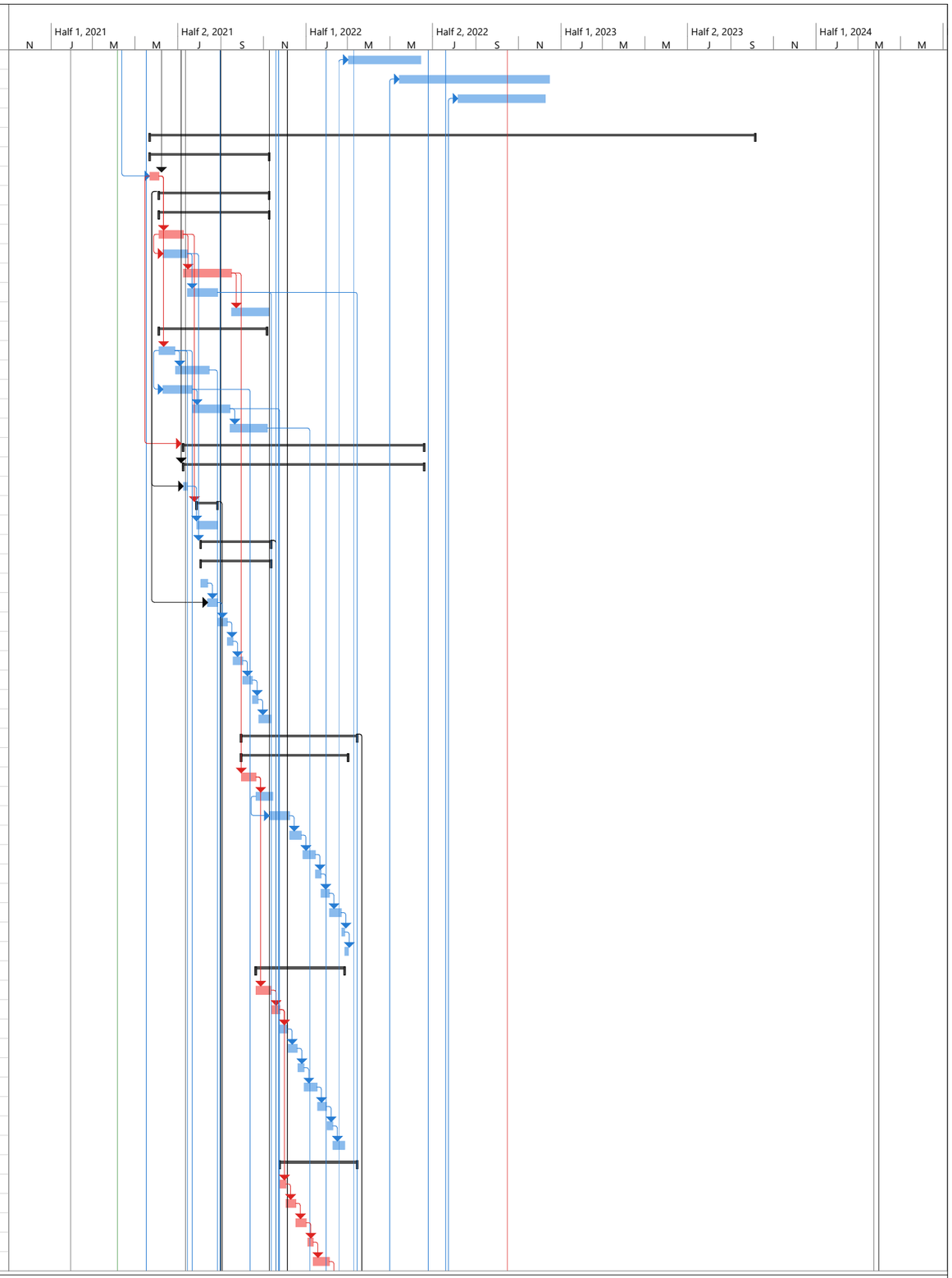
ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
63		Design Coordination	40 days	09-07-21	26-08-21	54SS+20 days
64		Procurement	20 days	26-10-21	18-11-21	60
65		Fabrication	18 days	19-11-21	09-12-21	64
66		Installation	18 days	10-12-21	31-12-21	65
67		Review	14 days	03-01-22	18-01-22	66
68		AC Checking & Approval	15 days	13-12-21	30-12-21	52FS-30 days
69		BCA Submission and Approval	15 days	31-12-21	18-01-22	68
70		MEP Design	120 days	03-03-21	26-07-21	5SS+25 days
71		PG Substation	80 days	03-03-21	08-06-21	5SS
72		Lift Design	90 days	03-03-21	19-06-21	5SS
73		Sanitary / Plumbing (In-situ)	90 days	03-03-21	19-06-21	5SS
74		Gas	110 days	03-03-21	13-07-21	5SS
75		Mechanical Ventilation	120 days	03-03-21	26-07-21	5SS
76		Fire Protection	120 days	03-03-21	26-07-21	5SS
77		Floating Structure Design	130 days	01-06-21	01-11-21	2SS+37 days
78		Engineering Design and Drawings	80 days	01-06-21	03-09-21	95
79		COMET Application	20 days	04-09-21	27-09-21	78
80		ST Submission / Approval	30 days	28-09-21	01-11-21	79
81		Other Authority Submissions and Approval	100 days	25-02-21	25-06-21	5SS+20 days
82		CD Shelter drawings, BCA & SCDF	90 days	25-02-21	14-06-21	
83		FSSD	80 days	25-02-21	02-06-21	
84		FSSD (M&E)	100 days	25-02-21	25-06-21	
85		Awarding of Subcontractor & Procurement	490 days	24-04-21	05-12-22	2SS
86		Provisional Sum	490 days	24-04-21	05-12-22	
87		Sanitary Wares/ Fittings / Accessories (Sinks / WC / Basin etc.)	0 days	24-04-21	24-04-21	2SS+70 days
88		Kitchen Appliances	0 days	24-04-21	24-04-21	2SS+70 days
89		Faceplates for Switch Socket	0 days	24-04-21	24-04-21	2SS+70 days
90		ACMV	0 days	24-04-21	24-04-21	2SS+70 days
91		Light Fittings	0 days	09-12-21	09-12-21	2SS+260 days
92		Cabinetry / Wardrobe / Vanity	0 days	07-05-21	07-05-21	2SS+80 days
93		Instrumentation and monitoring	0 days	17-05-21	17-05-21	2SS+87 days
94		Ironmongery	0 days	09-12-21	09-12-21	2SS+260 days
95		Floating deck	0 days	01-06-21	01-06-21	2SS+60 days
96		Green Wall	0 days	09-12-21	09-12-21	2SS+260 days
97		Softscape	0 days	31-07-21	31-07-21	2SS+150 days
98		Home Automation & Security System	0 days	09-12-21	09-12-21	2SS+260 days
99		Rectification of seawall	0 days	27-01-22	27-01-22	2SS+300 days
100		Gynamsium Equipment	0 days	05-12-22	05-12-22	2SS+560 days
101		Outdoor and Pool Deck Furniture	0 days	05-12-22	05-12-22	2SS+560 days
102		Playground equipment & Outdoor Equipment	0 days	05-12-22	05-12-22	2SS+560 days
103		Signages	0 days	05-12-22	05-12-22	2SS+560 days
104		Waterfront Promenade	0 days	06-10-22	06-10-22	2SS+510 days
105		PBU	513 days	26-06-21	04-03-23	
106		Design, Submissions and Approvals	40 days	26-06-21	13-08-21	
107		PBU shop drawings	40 days	26-06-21	13-08-21	47
108		Procurement of PBU material	60 days	26-06-21	06-09-21	47
109		PBU Mock-up - Master & Common Bath (Total 2 nos)	98 days	27-07-21	19-11-21	
110		Carcass Casting	30 days	27-07-21	31-08-21	106SS+25 days
111		Architectural/ M&E Fit Out	40 days	01-09-21	16-10-21	110
112		1st review	14 days	18-10-21	02-11-21	111
113		2nd Mock-up review	14 days	03-11-21	19-11-21	112
114		Production	370 days	14-08-21	31-10-22	
115		Mould Grouping and Fabrication	90 days	14-08-21	27-11-21	110SS+15 days
116		Concrete Carcass Casting	330 days	30-09-21	31-10-22	115SS+40 days
117		Architectural / M&E Fit Out for PBU	360 days	05-11-21	11-01-23	116SS+30 days
118		Delivery & Installation of PBU	380 days	02-12-21	04-03-23	
119		Block 22 (2) (7 Storey)	165 days	06-12-21	22-06-22	263SS-25 days
120		Block 16 (5) (8 Storey)	130 days	08-07-22	09-12-22	275SS-25 days
121		Block 20 (1) (5 Storey)	135 days	02-08-22	10-01-23	286SS-25 days
122		Block 2 (4) (2 Storey)	85 days	23-03-22	04-07-22	295SS-25 days
123		Block 18 (3) (3 Storey)	105 days	29-10-22	04-03-23	301SS-25 days
124		Block 12 (9) (8 Storey)	180 days	02-12-21	06-07-22	308SS-25 days
125		Block 10 (10) (10 Storey)	210 days	12-02-22	21-10-22	320SS-25 days



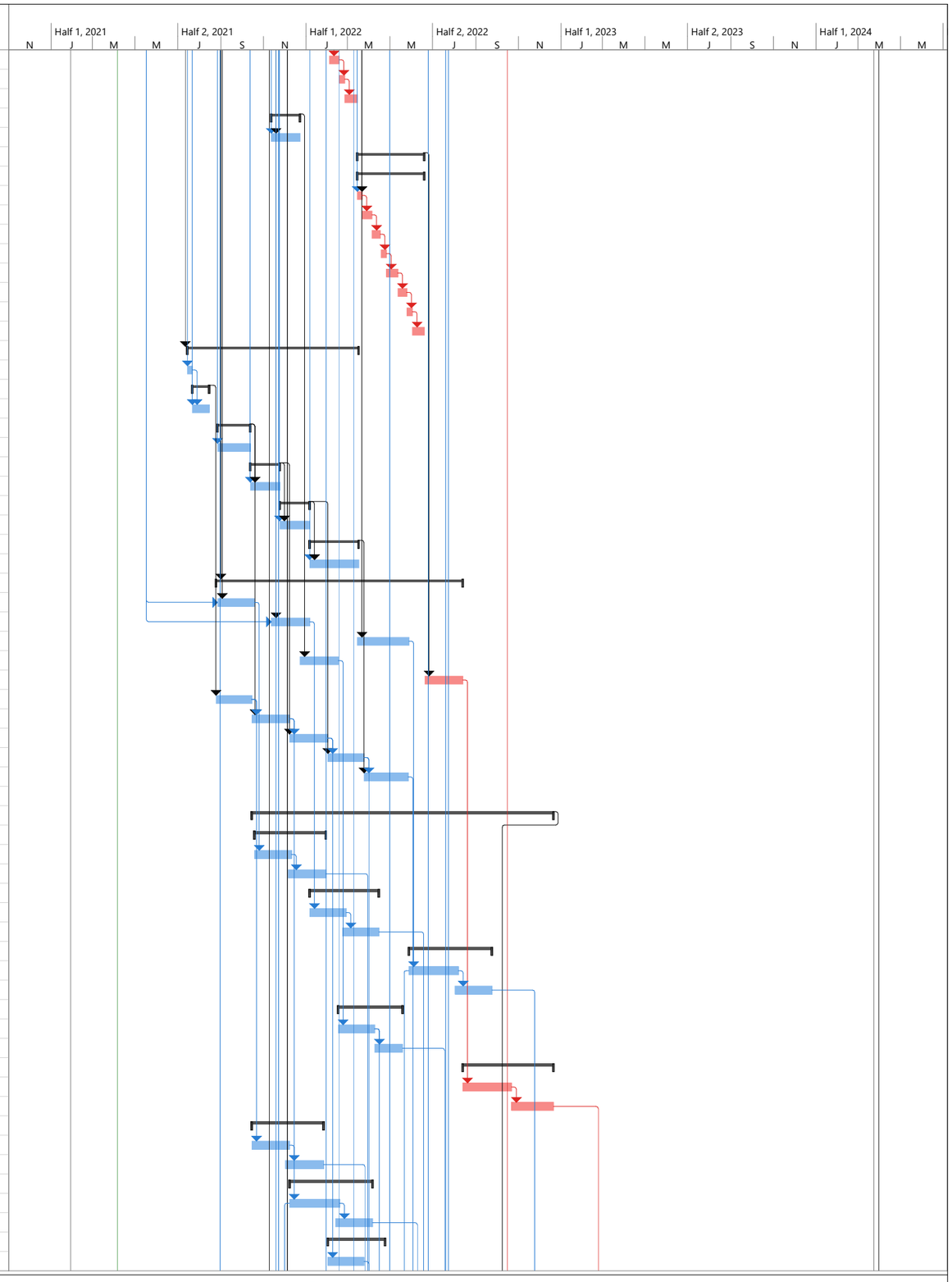
Proj: Master Programme_The Reef at King's Dock
Proj Reference: MP/RKD/02/21
Date: 06 April 2021

Task, Split, Milestone, Summary, Project Summary, Inactive Task, Inactive Milestone, Inactive Summary, Manual Task, Duration-only, Manual Summary Rollup, Manual Summary, Start-only, Finish-only, External Tasks, External Milestone, Deadline, Critical, Critical Split, Progress, Manual Progress

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
126		Block 8 (8) (2 Storey)	85 days	02-03-22	13-06-22	334SS-25 days
127		Block 6 (6) (8 Storey)	180 days	14-05-22	14-12-22	340SS-25 days
128		Block 14 (7) (3 Storey)	105 days	06-08-22	08-12-22	352SS-25 days
129						
130		Structural Works	720 days	22-05-21	05-10-23	
131		Foundation Work	142 days	22-05-21	08-11-21	
132		Mobilisation of Bored Piling Work	10 days	22-05-21	03-06-21	3FS-7 days,38SS+25 days
133		Bored Piling Work	132 days	04-06-21	08-11-21	
134		BP - Zone A	132 days	04-06-21	08-11-21	
135		Block 22 (2) (7 Storey)	30 days	04-06-21	08-07-21	132
136		Block 16 (5) (8 Storey)	30 days	10-06-21	14-07-21	135SS+5 days
137		Block 20 (1) (5 Storey)	57 days	09-07-21	15-09-21	135
138		Block 2 (4) (2 Storey)	35 days	15-07-21	26-08-21	136
139		Block 18 (3) (3 Storey)	45 days	16-09-21	08-11-21	137
140		BP - Zone B	130 days	04-06-21	05-11-21	
141		Block 12 (9) (8 Storey)	20 days	04-06-21	26-06-21	132
142		Block 10 (10) (10 Storey)	40 days	28-06-21	14-08-21	141
143		Block 8 (8) (2 Storey)	35 days	10-06-21	21-07-21	141SS+5 days
144		Block 6 (6) (8 Storey)	45 days	22-07-21	13-09-21	143
145		Block 14 (7) (3 Storey)	45 days	14-09-21	05-11-21	144
146		Excavation	287 days	09-07-21	18-06-22	132SS+30 days
147		ERSS Work - Zone A	287 days	09-07-21	18-06-22	29
148		Mobilisation	5 days	09-07-21	14-07-21	133SS+30 days
149		Block 22 (2) (7 Storey)	25 days	28-07-21	26-08-21	135FS+15 days
150		Open Cut	25 days	28-07-21	26-08-21	148
151		Block 16 (5) (8 Storey)	85 days	03-08-21	11-11-21	136FS+15 days
152		Soldier with 2 layers GA-12m/13m, (Sect 4-4)	85 days	03-08-21	11-11-21	
153		Install soldier pile-est 16m length- 24 nos@1.6m c/c [38m]	8 days	03-08-21	12-08-21	
154		Excavation, est 2m depth	12 days	13-08-21	26-08-21	153,133SS+30 days
155		Install waler and GA bracket	12 days	27-08-21	09-09-21	154
156		Install GA with preload	7 days	10-09-21	17-09-21	155
157		Excavation, est 4.5m depth	12 days	18-09-21	01-10-21	156
158		Install waler and GA bracket	12 days	02-10-21	15-10-21	157
159		Install GA with preload	7 days	16-10-21	23-10-21	158
160		Excavation, est 2.7m depth to FEL	15 days	25-10-21	11-11-21	159
161		Block 20 (1) (5 Storey)	139 days	30-09-21	14-03-22	
162		Jet Grouting / Strutting (Sect 1A - 35 nos & 1B -11 nos)	128 days	30-09-21	01-03-22	
163		Excavate to Bmt 1, est 5m depth	18 days	30-09-21	20-10-21	137FS+12 days
164		Jet Grouting	20 days	21-10-21	13-11-21	163
165		Installation I beam	25 days	09-11-21	07-12-21	164SS+15 days
166		Excavation to Bmt 2, est 4m depth	15 days	08-12-21	24-12-21	165
167		Construction of Partial B2 Slab	15 days	27-12-21	13-01-22	166
168		Strutting	7 days	14-01-22	21-01-22	167
169		Excavation to Lift Pit FEL	10 days	22-01-22	02-02-22	168
170		Construction of Lift Pit foundation/Bmt 2 Pile Cap/Slab/Wall	15 days	03-02-22	19-02-22	169
171		Backfill	4 days	21-02-22	24-02-22	170
172		To remove strut & construct Bmt 1	4 days	25-02-22	01-03-22	171
173		Soldier with 2 layers GA-15m/15m, (Sect 5-5)	106 days	21-10-21	24-02-22	
174		Excavation, est 2m depth	18 days	21-10-21	11-11-21	163
175		Install soldier pile- est 16m length- 17 nos@1.6m c/c [27m]	10 days	12-11-21	23-11-21	174
176		Excavation, est 1m depth	10 days	24-11-21	04-12-21	175
177		Install waler and GA bracket	12 days	06-12-21	18-12-21	176
178		Install GA with preload	7 days	20-12-21	28-12-21	177
179		Excavation, est 3m depth	15 days	29-12-21	15-01-22	178
180		Install waler and GA bracket	12 days	17-01-22	29-01-22	179
181		Install GA with preload	7 days	31-01-22	07-02-22	180
182		Excavation, est 2.7m depth to FEL	15 days	08-02-22	24-02-22	181
183		Soldier with 2 layers GA-12m/13m, (Sect 4-4)	93 days	24-11-21	14-03-22	
184		Install soldier pile- est 16m length- 30 nos@1.6m c/c [48m]	8 days	24-11-21	02-12-21	175
185		Excavation, est 2m depth	12 days	03-12-21	16-12-21	184
186		Install waler and GA bracket	12 days	17-12-21	31-12-21	185
187		Install GA with preload	7 days	03-01-22	10-01-22	186
188		Excavation, est 4.5m depth	20 days	11-01-22	02-02-22	187



ID	Task Mod	Task Name	Duration	Start	Finish	Predecessors
189		Install waler and GA bracket	12 days	03-02-22	16-02-22	188
190		Install GA with preload	7 days	17-02-22	24-02-22	189
191		Excavation, est 2.7m depth to FEL	15 days	25-02-22	14-03-22	190
192		Block 2 (4) (2 Storey)	35 days	12-11-21	22-12-21	
193		Open Cut	35 days	12-11-21	22-12-21	151,138
194		Block 18 (3) (3 Storey)	79 days	15-03-22	18-06-22	
195		Soldier with 2 layers GA-12m/13m, (Sect 4-4)	79 days	15-03-22	18-06-22	
196		Install soldier pile-est 16m length- 21 nos@1.6m c/c [34m]	6 days	15-03-22	21-03-22	161,138
197		Excavation, est 2m depth	12 days	22-03-22	04-04-22	196
198		Install waler and GA bracket	10 days	05-04-22	16-04-22	197
199		Install GA with preload	7 days	18-04-22	25-04-22	198
200		Excavation, est 4.5m depth	12 days	26-04-22	11-05-22	199
201		Install waler and GA bracket	10 days	12-05-22	24-05-22	200
202		Install GA with preload	7 days	25-05-22	01-06-22	201
203		Excavation, est 2.7m depth to FEL	15 days	02-06-22	18-06-22	202
204		ERSS Work - Zone B	205 days	15-07-21	16-03-22	29
205		Mobilisation	5 days	15-07-21	21-07-21	141FS+15 days
206		Block 12 (9) (8 Storey)	20 days	22-07-21	14-08-21	
207		Soilnail/Shotcrete - 4 layers	20 days	22-07-21	14-08-21	205,141
208		Block 10 (10) (10 Storey)	40 days	27-08-21	12-10-21	
209		Soldier with Timber Lagging	40 days	27-08-21	12-10-21	142FS+10 days
210		Block 8 (8) (2 Storey)	35 days	13-10-21	23-11-21	
211		Open Cut	35 days	13-10-21	23-11-21	143FS+15 days,208
212		Block 6 (6) (8 Storey)	35 days	24-11-21	05-01-22	
213		Open Cut	35 days	24-11-21	05-01-22	144FS+15 days,210
214		Block 14 (7) (3 Storey)	60 days	06-01-22	16-03-22	
215		Soilnail/Shotcrete - 4 layers	60 days	06-01-22	16-03-22	145FS+15 days,212
216		Pilecap	294 days	25-08-21	12-08-22	39
217		Block 22 (2) (7 Storey)	45 days	27-08-21	18-10-21	149,42SS+28 days
218		Block 16 (5) (8 Storey)	45 days	12-11-21	05-01-22	151,42SS+28 days
219		Block 20 (1) (5 Storey)	60 days	15-03-22	27-05-22	161
220		Block 2 (4) (2 Storey)	45 days	23-12-21	15-02-22	192
221		Block 18 (3) (3 Storey)	45 days	20-06-22	12-08-22	194
222		Block 12 (9) (8 Storey)	44 days	25-08-21	14-10-21	206
223		Block 10 (10) (10 Storey)	45 days	15-10-21	07-12-21	208,222
224		Block 8 (8) (2 Storey)	45 days	08-12-21	31-01-22	210,223
225		Block 6 (6) (8 Storey)	45 days	01-02-22	24-03-22	212,224
226		Block 14 (7) (3 Storey)	50 days	25-03-22	26-05-22	214,225
227						
228		Basements Construction - B2 & B1	360 days	15-10-21	20-12-22	
229		Block 22 (2) (7 Storey)	85 days	19-10-21	28-01-22	
230		Basement 2	45 days	19-10-21	10-12-21	217
231		Basement 1	45 days	06-12-21	28-01-22	230FS-5 days
232		Block 16 (5) (8 Storey)	85 days	06-01-22	14-04-22	
233		Basement 2	45 days	06-01-22	26-02-22	218
234		Basement 1	45 days	22-02-22	14-04-22	233FS-5 days
235		Block 20 (1) (5 Storey)	100 days	28-05-22	23-09-22	
236		Basement 2	60 days	28-05-22	06-08-22	219
237		Basement 1	45 days	02-08-22	23-09-22	236FS-5 days
238		Block 2 (4) (2 Storey)	75 days	16-02-22	18-05-22	
239		Basement 2	45 days	16-02-22	08-04-22	220
240		Basement 1	30 days	09-04-22	18-05-22	239
241		Block 18 (3) (3 Storey)	110 days	13-08-22	20-12-22	
242		Basement 2	60 days	13-08-22	21-10-22	221
243		Basement 1	50 days	22-10-22	20-12-22	242
244		Block 12 (9) (8 Storey)	85 days	15-10-21	25-01-22	
245		Basement 2	45 days	15-10-21	07-12-21	222
246		Basement 1	45 days	02-12-21	25-01-22	245FS-5 days
247		Block 10 (10) (10 Storey)	100 days	08-12-21	05-04-22	
248		Basement 2	60 days	08-12-21	17-02-22	223
249		Basement 1	45 days	12-02-22	05-04-22	248FS-5 days
250		Block 8 (8) (2 Storey)	70 days	01-02-22	23-04-22	
251		Basement 2	45 days	01-02-22	24-03-22	224



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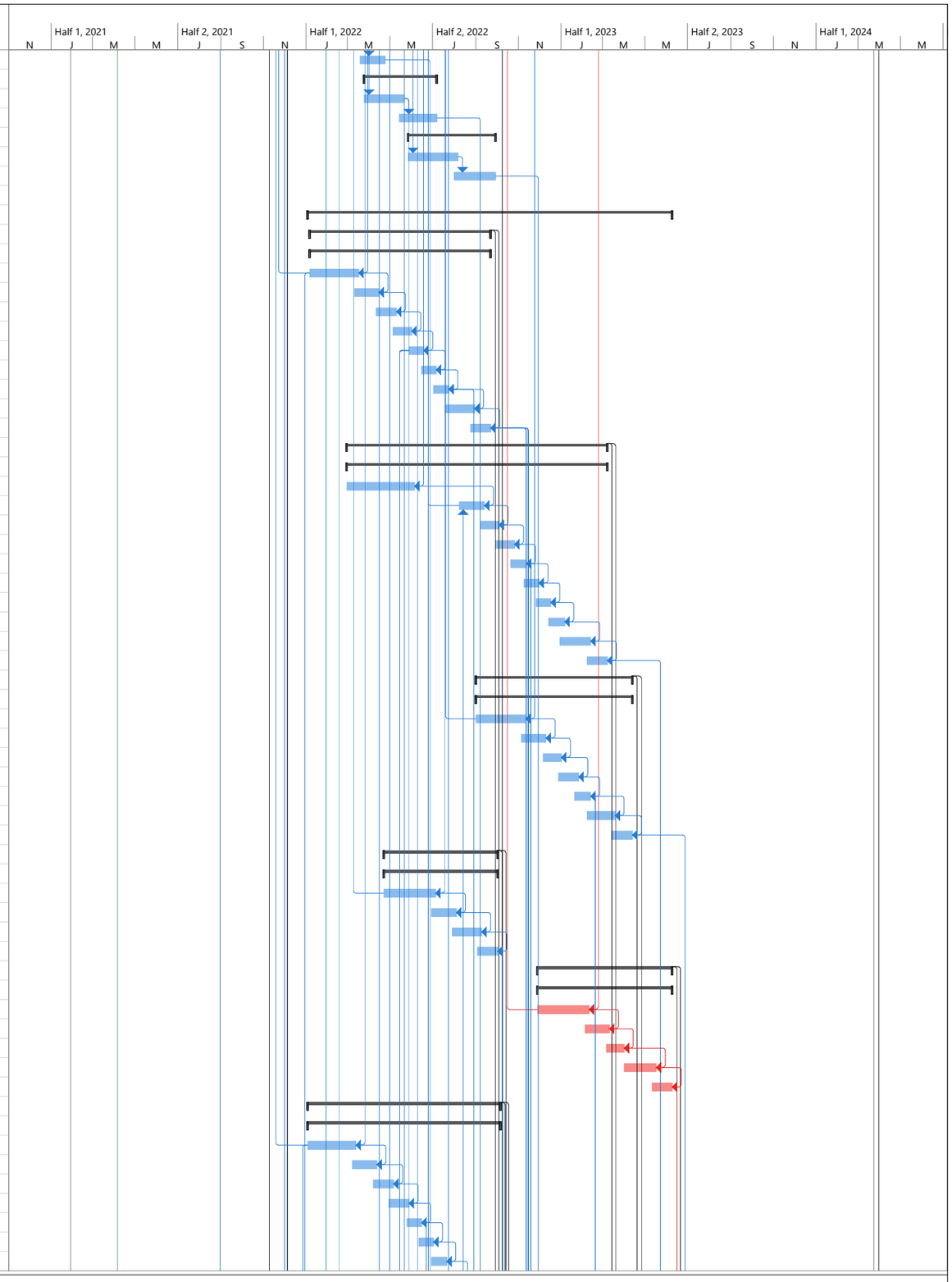
Task | Split | Milestone | Summary | Project Summary | Inactive Task | Inactive Milestone | Inactive Summary | Manual Task | Duration-only | Manual Summary Rollup | Manual Summary | Start-only | Finish-only | External Tasks | External Milestone | Deadline | Critical | Critical Split | Progress | Manual Progress

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
252		Basement 1	30 days	19-03-22	23-04-22	251FS-5 days
253		Block 6 (6) (8 Storey)	85 days	25-03-22	06-07-22	
254		Basement 2	45 days	25-03-22	20-05-22	225
255		Basement 1	45 days	14-05-22	06-07-22	254FS-5 days
256		Block 14 (7) (3 Storey)	105 days	27-05-22	28-09-22	
257		Basement 2	60 days	27-05-22	05-08-22	226
258		Basement 1	50 days	01-08-22	28-09-22	257FS-5 days
259						
260		Superstructure Works	433 days	03-01-22	08-06-23	
261		Block 22 (2) (7 Storey)	216 days	06-01-22	21-09-22	
262		In-Situ works	216 days	06-01-22	21-09-22	
263		Level 1	60 days	06-01-22	16-03-22	231FF+40 days
264		Level 2	30 days	11-03-22	14-04-22	263FF+25 days
265		Level 3	22 days	11-04-22	09-05-22	264FF+18 days
266		Level 4	22 days	05-05-22	31-05-22	265FF+18 days
267		Level 5	18 days	28-05-22	17-06-22	266FF+15 days
268		Level 6	18 days	15-06-22	05-07-22	267FF+15 days
269		Level 7	18 days	02-07-22	23-07-22	268FF+15 days
270		Main Roof	35 days	19-07-22	29-08-22	269FF+30 days
271		Upper Roof	25 days	24-08-22	21-09-22	270FF+20 days
272		Block 16 (5) (8 Storey)	309 days	28-02-22	07-03-23	
273		In-Situ works	309 days	28-02-22	07-03-23	
274		Level 1	80 days	28-02-22	04-06-22	234FF+40 days
275		Level 2	30 days	08-08-22	12-09-22	274FF+25 days,315
276		Level 3	22 days	08-09-22	03-10-22	275FF+18 days
277		Level 4	22 days	29-09-22	25-10-22	276FF+18 days
278		Level 5	18 days	21-10-22	11-11-22	277FF+15 days
279		Level 6	18 days	09-11-22	29-11-22	278FF+15 days
280		Level 7	18 days	26-11-22	16-12-22	279FF+15 days
281		Level 8	18 days	14-12-22	05-01-23	280FF+15 days
282		Main Roof	35 days	30-12-22	11-02-23	281FF+30 days
283		Upper Roof	25 days	07-02-23	07-03-23	282FF+20 days
284		Block 20 (1) (5 Storey)	186 days	01-09-22	12-04-23	
285		In-Situ works	186 days	01-09-22	12-04-23	
286		Level 1	60 days	01-09-22	10-11-22	237FF+40 days
287		Level 2	30 days	05-11-22	09-12-22	286FF+25 days
288		Level 3	22 days	06-12-22	31-12-22	287FF+18 days
289		Level 4	22 days	28-12-22	25-01-23	288FF+18 days
290		Level 5	18 days	20-01-23	11-02-23	289FF+15 days
291		Main Roof	35 days	07-02-23	18-03-23	290FF+30 days
292		Upper Roof	25 days	14-03-23	12-04-23	291FF+20 days
293		Block 2 (4) (2 Storey)	135 days	22-04-22	01-10-22	
294		In-Situ works	135 days	22-04-22	01-10-22	
295		Level 1	60 days	22-04-22	04-07-22	240FF+40 days
296		Level 2	30 days	29-06-22	03-08-22	295FF+25 days
297		Main Roof	35 days	29-07-22	08-09-22	296FF+30 days
298		Upper Roof	25 days	03-09-22	01-10-22	297FF+20 days
299		Block 18 (3) (3 Storey)	158 days	28-11-22	08-06-23	
300		In-Situ works	158 days	28-11-22	08-06-23	
301		Level 1	60 days	28-11-22	09-02-23	243FF+40 days
302		Level 2	30 days	04-02-23	10-03-23	301FF+25 days
303		Level 3	22 days	07-03-23	31-03-23	302FF+18 days
304		Main Roof	35 days	01-04-23	16-05-23	303FF+35 days
305		Upper Roof	25 days	11-05-23	08-06-23	304FF+20 days
306		Block 12 (9) (8 Storey)	231 days	03-01-22	05-10-22	
307		In-Situ works	231 days	03-01-22	05-10-22	
308		Level 1	60 days	03-01-22	12-03-22	246FF+40 days
309		Level 2	30 days	08-03-22	11-04-22	308FF+25 days
310		Level 3	22 days	07-04-22	05-05-22	309FF+18 days
311		Level 4	22 days	29-04-22	27-05-22	310FF+18 days
312		Level 5	18 days	25-05-22	14-06-22	311FF+15 days
313		Level 6	18 days	11-06-22	01-07-22	312FF+15 days
314		Level 7	18 days	29-06-22	20-07-22	313FF+15 days



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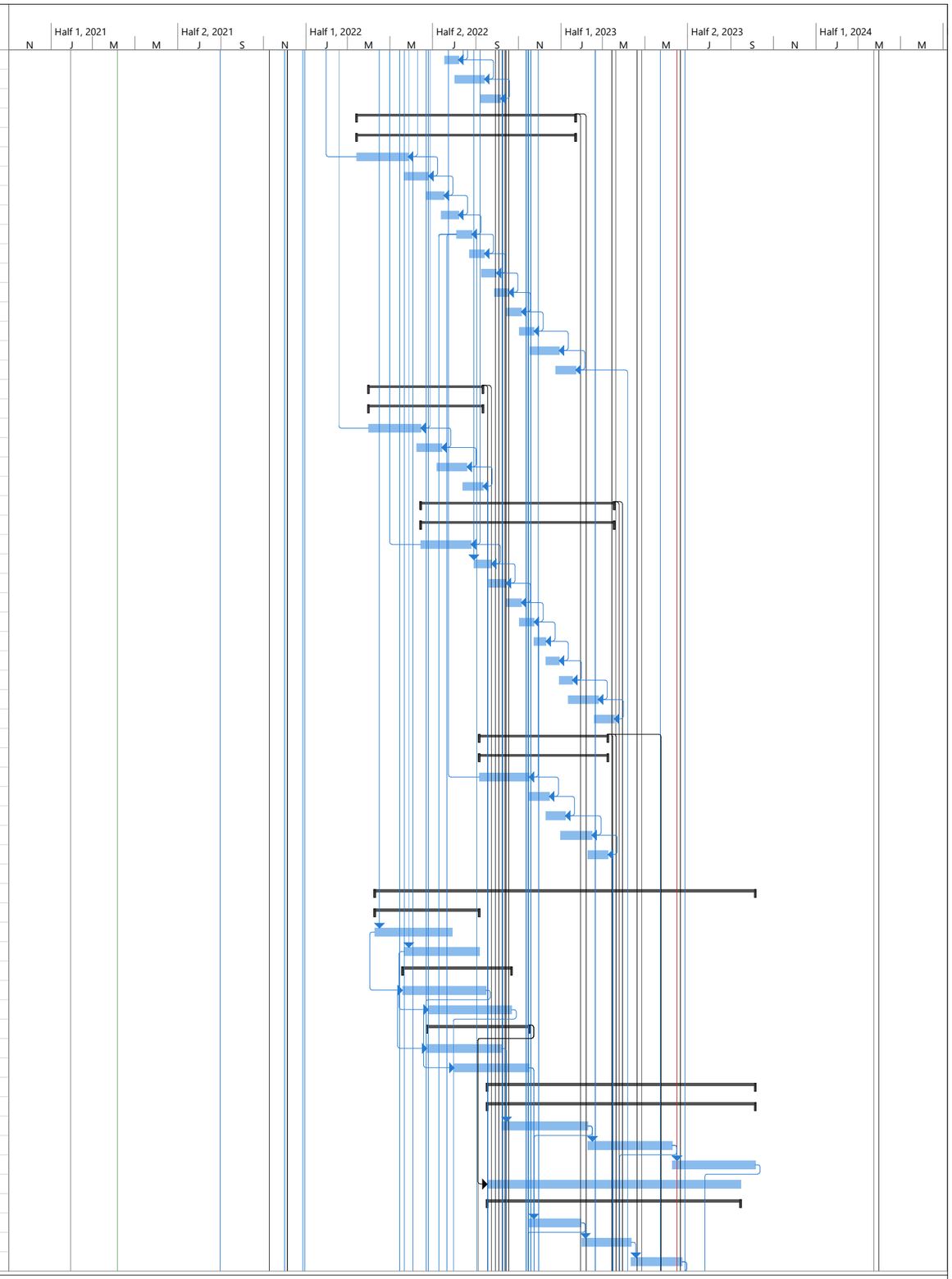
Task | Split | Milestone | Summary | Project Summary | Inactive Task | Inactive Milestone | Inactive Summary | Manual Task | Duration-only | Manual Summary Rollup | Manual Summary | Start-only | Finish-only | External Tasks | External Milestone | Deadline | Critical | Critical Split | Progress | Manual Progress

ID	Task Mod	Task Name	Duration	Start	Finish	Predecessors
315		Level 8	18 days	18-07-22	06-08-22	314FF+15 days
316		Main Roof	35 days	02-08-22	12-09-22	315FF+30 days
317		Upper Roof	25 days	07-09-22	05-10-22	316FF+20 days
318		Block 10 (10) (10 Storey)	261 days	14-03-22	21-01-23	
319		In-Situ works	261 days	14-03-22	21-01-23	
320		Level 1	60 days	14-03-22	26-05-22	249FF+40 days
321		Level 2	30 days	21-05-22	24-06-22	320FF+25 days
322		Level 3	22 days	21-06-22	16-07-22	321FF+18 days
323		Level 4	22 days	13-07-22	06-08-22	322FF+18 days
324		Level 5	18 days	04-08-22	25-08-22	323FF+15 days
325		Level 6	18 days	23-08-22	12-09-22	324FF+15 days
326		Level 7	18 days	09-09-22	29-09-22	325FF+15 days
327		Level 8	18 days	27-09-22	17-10-22	326FF+15 days
328		Level 9	18 days	14-10-22	04-11-22	327FF+15 days
329		Level 10	18 days	02-11-22	22-11-22	328FF+15 days
330		Main Roof	35 days	17-11-22	28-12-22	329FF+30 days
331		Upper Roof	23 days	24-12-22	21-01-23	330FF+20 days
332		Block 8 (8) (2 Storey)	135 days	31-03-22	10-09-22	
333		In-Situ works	135 days	31-03-22	10-09-22	
334		Level 1	60 days	31-03-22	13-06-22	252FF+40 days
335		Level 2	30 days	08-06-22	13-07-22	334FF+25 days
336		Main Roof	35 days	07-07-22	18-08-22	335FF+30 days
337		Upper Roof	25 days	13-08-22	10-09-22	336FF+20 days
338		Block 6 (6) (8 Storey)	231 days	14-06-22	17-03-23	
339		In-Situ works	231 days	14-06-22	17-03-23	
340		Level 1	60 days	14-06-22	24-08-22	255FF+40 days
341		Level 2	22 days	29-08-22	22-09-22	340FF+25 days,269
342		Level 3	22 days	19-09-22	13-10-22	341FF+18 days
343		Level 4	18 days	14-10-22	04-11-22	342FF+18 days
344		Level 5	18 days	02-11-22	22-11-22	343FF+15 days
345		Level 6	15 days	23-11-22	09-12-22	344FF+15 days
346		Level 7	15 days	10-12-22	28-12-22	345FF+15 days
347		Level 8	15 days	29-12-22	16-01-23	346FF+15 days
348		Main Roof	35 days	11-01-23	22-02-23	347FF+30 days
349		Upper Roof	25 days	17-02-23	17-03-23	348FF+20 days
350		Block 14 (7) (3 Storey)	153 days	06-09-22	08-03-23	
351		In-Situ works	153 days	06-09-22	08-03-23	
352		Level 1	60 days	06-09-22	15-11-22	258FF+40 days
353		Level 2	25 days	16-11-22	14-12-22	352FF+25 days
354		Level 3	22 days	10-12-22	06-01-23	353FF+18 days
355		Main Roof	35 days	31-12-22	13-02-23	354FF+30 days
356		Upper Roof	25 days	08-02-23	08-03-23	355FF+20 days
357						
358		Structural Work at Non-Tower Footprint	450 days	09-04-22	05-10-23	
359		Basement 2	122 days	09-04-22	05-09-22	
360		Zone A	90 days	09-04-22	28-07-22	239
361		Zone B	90 days	21-05-22	05-09-22	254
362		Basement 1	132 days	19-05-22	21-10-22	
363		Zone A	100 days	19-05-22	14-09-22	360SS+30 days
364		Zone B	100 days	25-06-22	21-10-22	361SS+30 days
365		Level 1	122 days	23-06-22	15-11-22	
366		Zone A	90 days	23-06-22	07-10-22	363SS+30 days
367		Zone B	90 days	01-08-22	15-11-22	364SS+30 days
368		Ancillary Structures	318 days	17-09-22	05-10-23	
369		Zone A	318 days	17-09-22	05-10-23	
370		Pavilion 1 (Twilight Pavilion)	100 days	08-10-22	07-02-23	366
371		Guardhouse / Drop off	100 days	08-02-23	08-06-23	370
372		Clubhouse (King's Club)	100 days	09-06-23	05-10-23	371
373		Boundary walls / fencing works	300 days	17-09-22	14-09-23	365FS-50 days
374		Zone B	300 days	17-09-22	14-09-23	
375		Tennis court	60 days	16-11-22	28-01-23	367
376		Pavilion 3 (Gourmet Pavilion)	60 days	30-01-23	10-04-23	375
377		King's Lounge (Function room 2)	60 days	11-04-23	22-06-23	376



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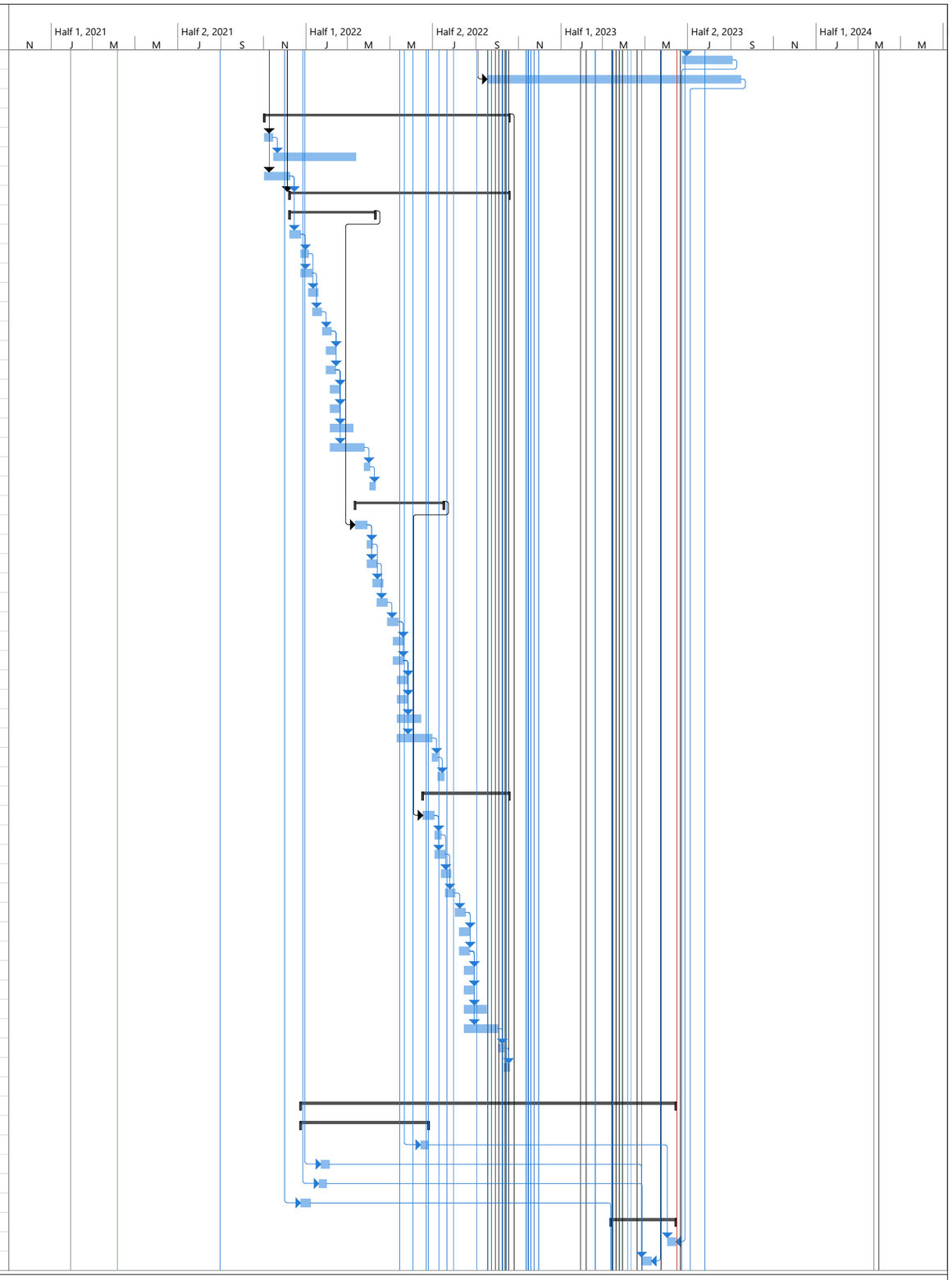
ID	Task Mod	Task Name	Duration	Start	Finish	Predecessors
378		Pavilion 2 (Social Pavilion)	60 days	23-06-23	02-09-23	377
379		Boundary walls / fencing works	300 days	17-09-22	14-09-23	365FS-50 days
380						
381		Floating Structure	292 days	02-11-21	18-10-22	
382		Mobilisation	10 days	02-11-21	13-11-21	77
383		In Situ Work (Foundation)	100 days	15-11-21	12-03-22	382
384		Setup of offsite Fabrication yard	30 days	02-11-21	07-12-21	77
385		Off Site Fabrication Work	262 days	08-12-21	18-10-22	384,77,3FS-7 days
386		Module 1	104 days	08-12-21	09-04-22	
387		Keel block laying	14 days	08-12-21	23-12-21	384
388		Erection base formwork	7 days	24-12-21	03-01-22	387
389		Hull base rebars	12 days	24-12-21	08-01-22	387
390		Hull base casting	12 days	04-01-22	17-01-22	388
391		External wall: rebar	12 days	10-01-22	22-01-22	389
392		External wall: formwwork	12 days	24-01-22	05-02-22	391
393		External wall: casting	12 days	29-01-22	11-02-22	392FS-7 days
394		Internal wall: rebar	12 days	29-01-22	11-02-22	392FS-7 days
395		Internal wall: formwork	12 days	04-02-22	17-02-22	394FS-7 days
396		Internal wall: casting	12 days	04-02-22	17-02-22	394FS-7 days
397		Launch preparation and launch	28 days	04-02-22	08-03-22	394FS-7 days
398		Topside fabrication	42 days	04-02-22	24-03-22	394FS-7 days
399		Tow to site	7 days	25-03-22	01-04-22	398
400		Installation of Module on piles	7 days	02-04-22	09-04-22	399
401		Module 2	104 days	12-03-22	16-07-22	
402		Keel block laying	14 days	12-03-22	28-03-22	386FS-25 days
403		Erection base formwork	7 days	29-03-22	05-04-22	402
404		Hull base rebars	12 days	29-03-22	11-04-22	402
405		Hull base casting	12 days	06-04-22	20-04-22	403
406		External wall: rebar	12 days	12-04-22	26-04-22	404
407		External wall: formwwork	12 days	27-04-22	12-05-22	406
408		External wall: casting	12 days	05-05-22	19-05-22	407FS-7 days
409		Internal wall: rebar	12 days	05-05-22	19-05-22	407FS-7 days
410		Internal wall: formwork	12 days	11-05-22	25-05-22	409FS-7 days
411		Internal wall: casting	12 days	11-05-22	25-05-22	409FS-7 days
412		Launch preparation and launch	28 days	11-05-22	13-06-22	409FS-7 days
413		Topside fabrication	42 days	11-05-22	29-06-22	409FS-7 days
414		Tow to site	7 days	30-06-22	07-07-22	413
415		Installation of Module on piles	7 days	08-07-22	16-07-22	414
416		Module 3	104 days	17-06-22	18-10-22	
417		Keel block laying	14 days	17-06-22	02-07-22	401FS-25 days
418		Erection base formwork	7 days	04-07-22	12-07-22	417
419		Hull base rebars	12 days	04-07-22	18-07-22	417
420		Hull base casting	12 days	13-07-22	26-07-22	418
421		External wall: rebar	12 days	19-07-22	01-08-22	419
422		External wall: formwwork	12 days	02-08-22	16-08-22	421
423		External wall: casting	12 days	08-08-22	22-08-22	422FS-7 days
424		Internal wall: rebar	12 days	08-08-22	22-08-22	422FS-7 days
425		Internal wall: formwork	12 days	15-08-22	27-08-22	424FS-7 days
426		Internal wall: casting	12 days	15-08-22	27-08-22	424FS-7 days
427		Launch preparation and launch	28 days	15-08-22	15-09-22	424FS-7 days
428		Topside fabrication	42 days	15-08-22	01-10-22	424FS-7 days
429		Tow to site	7 days	03-10-22	10-10-22	428
430		Installation of Module on piles	7 days	11-10-22	18-10-22	429
431						
432		Tower Crane	443 days	24-12-21	13-06-23	
433		Installation of Tower Crane	151 days	24-12-21	24-06-22	
434		TC1	10 days	14-06-22	24-06-22	236SS+14 days
435		TC2	10 days	22-01-22	02-02-22	263SS+14 days
436		TC3	10 days	19-01-22	29-01-22	308SS+14 days
437		TC4	10 days	24-12-21	06-01-22	248SS+14 days
438		Dismantling of Tower Crane	76 days	13-03-23	13-06-23	
439		TC1	10 days	02-06-23	13-06-23	292FF+50 days,434
440		TC2	10 days	26-04-23	09-05-23	283FF+50 days,435



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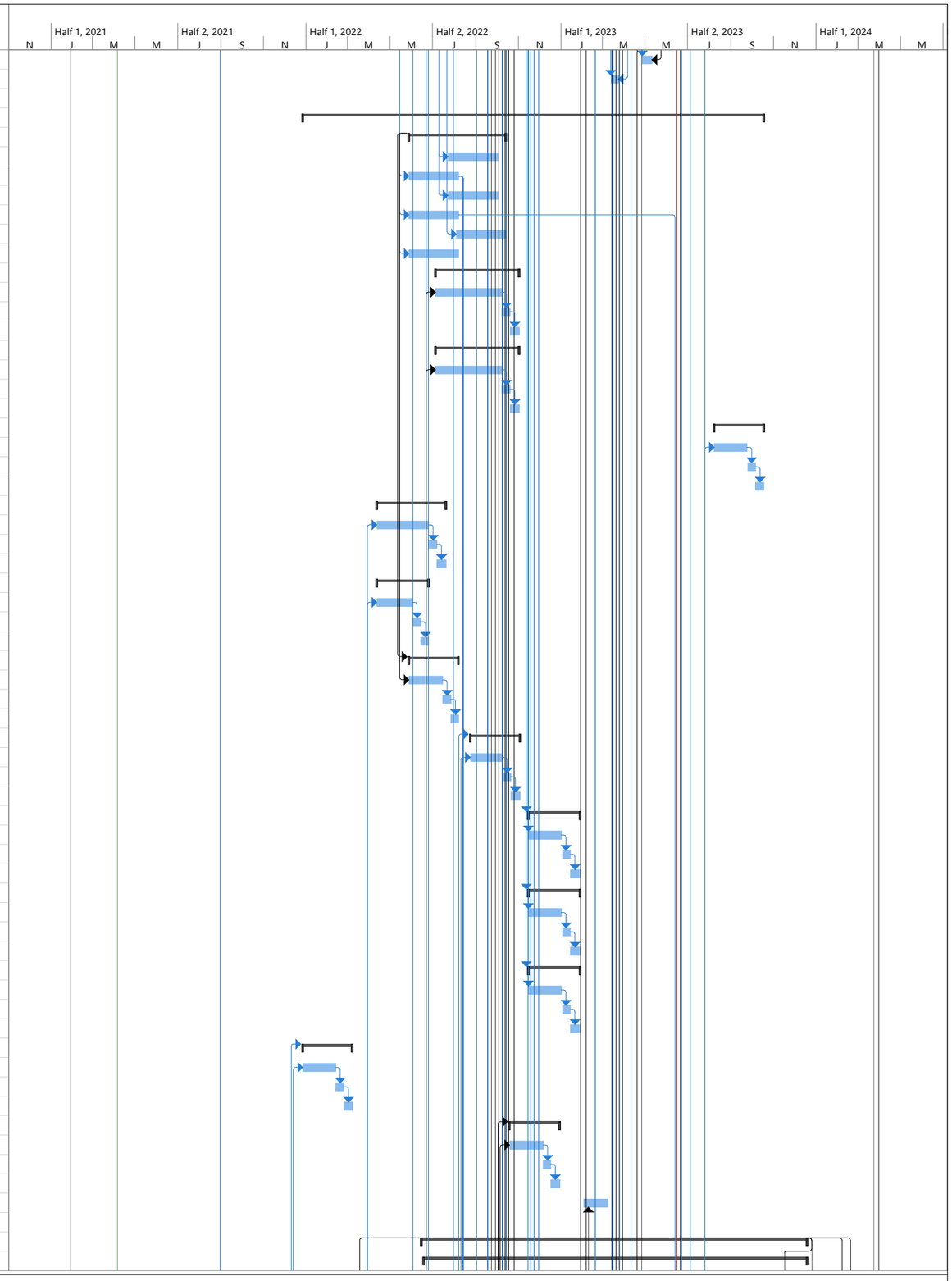
ID	Task Mod	Task Name	Duration	Start	Finish	Predecessors
441		TC3	10 days	27-04-23	10-05-23	350FF+50 days,436
442		TC4	10 days	13-03-23	23-03-23	331FF+50 days,437
443						
444		Mock Up	548 days	27-12-21	17-10-23	
445		Mock-Ups (Details)	117 days	28-05-22	13-10-22	
446		Type A1j (Block 10, #02-17)	60 days	23-07-22	01-10-22	324SS-10 days
447		Type A2 (Block 22,#03-64)	60 days	28-05-22	06-08-22	267SS
448		Type B1 (Block 10,#02-24)	60 days	23-07-22	01-10-22	324SS-10 days
449		Type B5 (Block 22,#02-61)	60 days	28-05-22	06-08-22	267SS
450		Type CS 1 (Block 10,#02-13)	60 days	04-08-22	13-10-22	324SS
451		Type CP 2 (Block 22,#03-65)	60 days	28-05-22	06-08-22	267SS
452		Mock-Ups Lift (Typical Lobby) Block 22(2)	100 days	05-07-22	01-11-22	
453		Construction	80 days	05-07-22	07-10-22	867SS
454		First Review	10 days	08-10-22	19-10-22	453
455		Second Review	10 days	20-10-22	01-11-22	454
456		Mock-Ups Lift (Lobby & Main Lift 1st Storey &B1) Block 22(2)	100 days	05-07-22	01-11-22	
457		Construction	80 days	05-07-22	07-10-22	867SS
458		First Review	10 days	08-10-22	19-10-22	457
459		Second Review	10 days	20-10-22	01-11-22	458
460		Mock-Ups-Special Cladding (Clubhouse/Guardhouse/ESS/BBQ Canopy)	60 days	08-08-23	17-10-23	
461		Construction	40 days	08-08-23	23-09-23	991SS
462		First Review	10 days	25-09-23	05-10-23	461
463		Second Review	10 days	06-10-23	17-10-23	462
464		Mock-Ups-Basement Lobby and Club House	80 days	12-04-22	19-07-22	
465		Construction	60 days	12-04-22	24-06-22	859SS-160 days
466		First Review	10 days	25-06-22	06-07-22	465
467		Second Review	10 days	07-07-22	19-07-22	466
468		Mock-Ups-Basement Feature	60 days	12-04-22	24-06-22	
469		Construction	40 days	12-04-22	01-06-22	859SS-160 days
470		First Review	10 days	02-06-22	13-06-22	469
471		Second Review	10 days	14-06-22	24-06-22	470
472		Mock-Ups-Ac Ledge/Trellis/Balcony Enclosure	60 days	28-05-22	06-08-22	445SS
473		Construction	40 days	28-05-22	14-07-22	445SS
474		First Review	10 days	15-07-22	26-07-22	473
475		Second Review	10 days	27-07-22	06-08-22	474
476		Mock-Ups-Signage	60 days	24-08-22	02-11-22	862SS-250 days
477		Construction	40 days	24-08-22	08-10-22	862SS-250 days
478		First Review	10 days	10-10-22	20-10-22	477
479		Second Review	10 days	21-10-22	02-11-22	478
480		Mock-Ups-Green Roof	60 days	15-11-22	27-01-23	271FS+45 days
481		Construction	40 days	15-11-22	31-12-22	271FS+45 days
482		First Review	10 days	03-01-23	13-01-23	481
483		Second Review	10 days	14-01-23	27-01-23	482
484		Mock-Ups-Perforated Enclosures to M&E Services at Roof	60 days	15-11-22	27-01-23	271FS+45 days
485		Construction	40 days	15-11-22	31-12-22	271FS+45 days
486		First Review	10 days	03-01-23	13-01-23	485
487		Second Review	10 days	14-01-23	27-01-23	486
488		Mock-Ups-Façade Lighting (Balconies)	60 days	15-11-22	27-01-23	271FS+45 days
489		Construction	40 days	15-11-22	31-12-22	271FS+45 days
490		First Review	10 days	03-01-23	13-01-23	489
491		Second Review	10 days	14-01-23	27-01-23	490
492		Mock-Ups-Water Curtain / Water Schedule	60 days	27-12-21	07-03-22	859SS-250 days
493		Construction	40 days	27-12-21	11-02-22	859SS-250 days
494		First Review	10 days	12-02-22	23-02-22	493
495		Second Review	10 days	24-02-22	07-03-22	494
496		Mock-Ups-Water Green Dock Wall	60 days	19-10-22	29-12-22	1007SS
497		Construction	40 days	19-10-22	05-12-22	1007SS
498		First Review	10 days	06-12-22	16-12-22	497
499		Second Review	10 days	17-12-22	29-12-22	498
500		Lift ID Mock-up Review & Approval	30 days	02-02-23	08-03-23	1018
501						
502		Tower - Architectural/ M&E Works	459 days	15-06-22	18-12-23	
503		Zone A	456 days	18-06-22	18-12-23	



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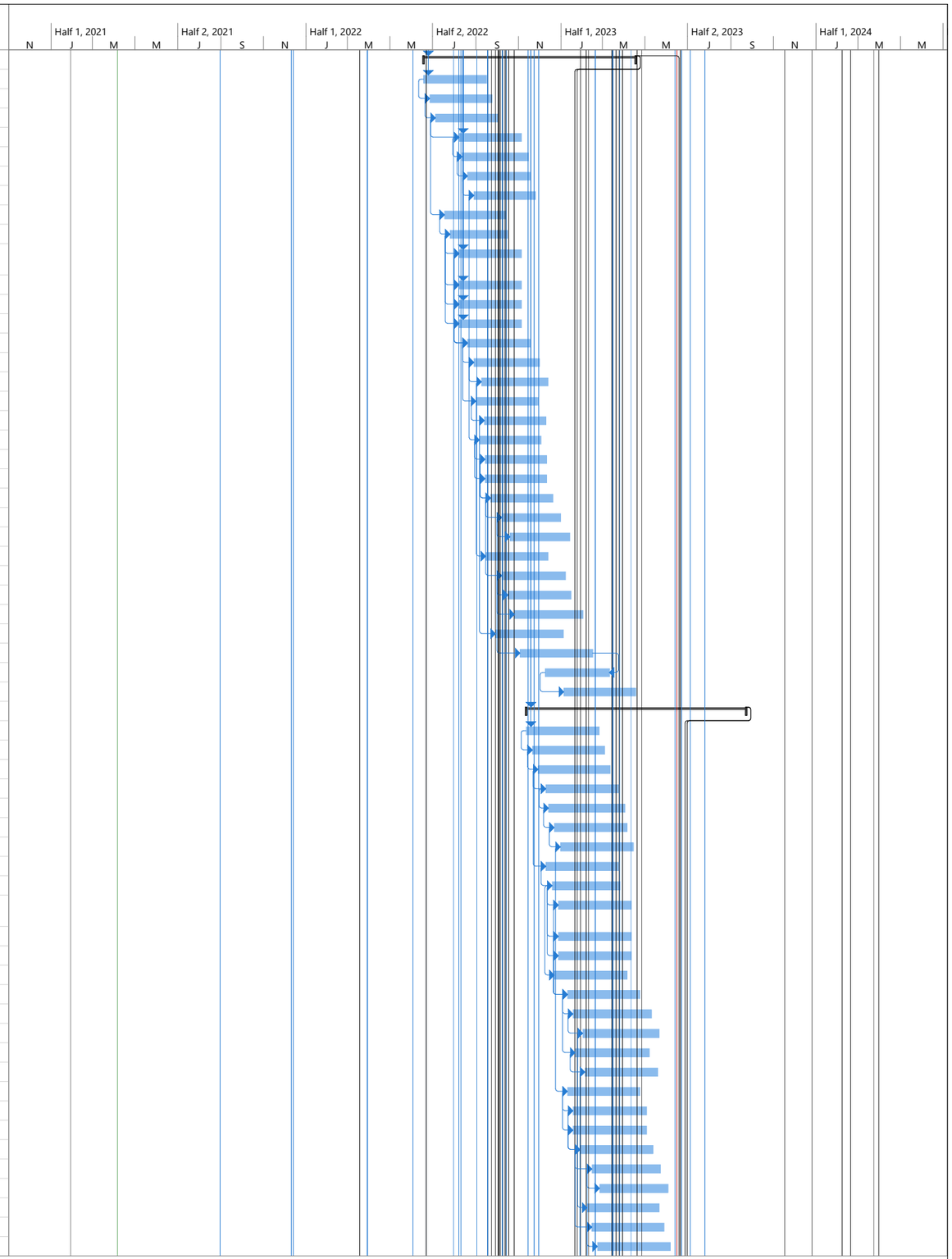
ID	Task Mod	Task Name	Duration	Start	Finish	Predecessors
504		Block 22 (2) (7 Storey)	252 days	18-06-22	17-04-23	267
505		Structural Clearance	75 days	18-06-22	15-09-22	267
506		Skim Coat (Ceiling)	75 days	27-06-22	23-09-22	505SS+7 days
507		Lightweight Panel	75 days	05-07-22	01-10-22	506SS+7 days
508		Door Frames	75 days	08-08-22	04-11-22	507SS+10 days,447
509		Window Frames	80 days	12-08-22	14-11-22	508SS+3 days
510		Plastering Base Coat	75 days	20-08-22	16-11-22	509SS+7 days
511		Plastering Finish Coat	75 days	29-08-22	24-11-22	510SS+7 days
512		Waterproofing & Ponding Tests to wet areas	75 days	18-07-22	13-10-22	507SS+10 days
513		Backing Screed to Bathrooms/ Kitchen / WC / Wet areas	70 days	26-07-22	15-10-22	512SS+7 days
514		Marble to Living, Dining, Kitchen, Study, Universal Room, Utility, Master Bedroom, Bathroom,Powder room	75 days	08-08-22	04-11-22	513SS+7 days,447
515		Tiling to WC / Household shelter / Balcony/PES	75 days	08-08-22	04-11-22	513SS+7 days,447
516		Balcony Railing	75 days	08-08-22	04-11-22	513SS+7 days,447
517		False Ceiling Frame	75 days	08-08-22	04-11-22	513SS+3 days,447
518		False Ceiling Board	75 days	20-08-22	16-11-22	514SS+10 days,515SS+10 days,516SS+10 days
519		Vanity Cabinet Carcass	80 days	29-08-22	30-11-22	518SS+7 days
520		Vanity Tops	80 days	09-09-22	12-12-22	519SS+10 days
521		Kitchen Cabinet Carcass	75 days	01-09-22	28-11-22	518SS+10 days
522		Kitchen cabinet Tops	75 days	13-09-22	09-12-22	521SS+10 days
523		Skirting Installation	75 days	06-09-22	02-12-22	511SS+7 days
524		Window Glazing	75 days	14-09-22	10-12-22	523SS+7 days
525		Fixed Screen	75 days	14-09-22	10-12-22	523SS+7 days
526		Engineered Timber flooring	75 days	22-09-22	19-12-22	524SS+7 days,525SS+7 days
527		Wardrobe Carcass	70 days	08-10-22	30-12-22	526SS+14 days
528		Painting - Sealer Coat	70 days	20-10-22	12-01-23	527SS+10 days
529		Shower Screen and Sanitary Ware	75 days	15-09-22	12-12-22	520SS+5 days
530		Apartment Doors	75 days	08-10-22	06-01-23	526SS+14 days
531		Apartment Doors Ironmongery	75 days	17-10-22	14-01-23	530SS+7 days
532		Door Panels to Wardrobe	80 days	26-10-22	31-01-23	527SS+14 days
533		Door Panels to kitchen Cabinets	80 days	29-09-22	03-01-23	522SS+14 days
534		Final Painting	85 days	03-11-22	14-02-23	530SS+21 days
535		Joinery Vanishing	75 days	09-12-22	10-03-23	534FF+21 days
536		Final Cleaning Of Units	85 days	05-01-23	17-04-23	535SS+21 days
537		Block 16 (5) (8 Storey)	260 days	12-11-22	22-09-23	278
538		Structural Clearance	85 days	12-11-22	23-02-23	278
539		Skim Coat (Ceiling)	85 days	21-11-22	03-03-23	538SS+7 days
540		Lightweight Panel	85 days	29-11-22	11-03-23	539SS+7 days
541		Door Frames	85 days	10-12-22	23-03-23	540SS+10 days
542		Window Frames	90 days	14-12-22	01-04-23	541SS+3 days
543		Plastering Base Coat	85 days	22-12-22	04-04-23	542SS+7 days
544		Plastering Finish Coat	85 days	31-12-22	13-04-23	543SS+7 days
545		Waterproofing & Ponding Tests to wet areas	85 days	10-12-22	23-03-23	540SS+10 days
546		Backing Screed to Bathrooms/ Kitchen / WC / Wet areas	80 days	19-12-22	25-03-23	545SS+7 days
547		Marble to Living, Dining, Kitchen, Study, Universal Room, Utility, Master Bedroom, Bathroom,Powder room	85 days	28-12-22	10-04-23	546SS+7 days
548		Tiling to WC / Household shelter / Balcony/PES	85 days	28-12-22	10-04-23	546SS+7 days
549		Balcony Railing	85 days	28-12-22	10-04-23	546SS+7 days
550		False Ceiling Frame	85 days	22-12-22	04-04-23	546SS+3 days
551		False Ceiling Board	85 days	10-01-23	22-04-23	547SS+10 days,548SS+10 days,549SS+10 days
552		Vanity Cabinet Carcass	90 days	18-01-23	09-05-23	551SS+7 days
553		Vanity Tops	90 days	01-02-23	20-05-23	552SS+10 days
554		Kitchen Cabinet Carcass	85 days	21-01-23	06-05-23	551SS+10 days
555		Kitchen cabinet Tops	85 days	04-02-23	18-05-23	554SS+10 days
556		Skirting Installation	85 days	10-01-23	22-04-23	544SS+7 days
557		Window Glazing	85 days	18-01-23	02-05-23	556SS+7 days
558		Fixed Screen	85 days	18-01-23	02-05-23	556SS+7 days
559		Engineered Timber flooring	85 days	28-01-23	11-05-23	557SS+7 days,558SS+7 days
560		Wardrobe Carcass	80 days	14-02-23	22-05-23	559SS+14 days
561		Painting - Sealer Coat	80 days	25-02-23	02-06-23	560SS+10 days
562		Shower Screen and Sanitary Ware	85 days	07-02-23	20-05-23	553SS+5 days
563		Apartment Doors	85 days	14-02-23	27-05-23	559SS+14 days
564		Apartment Doors Ironmongery	85 days	22-02-23	05-06-23	563SS+7 days



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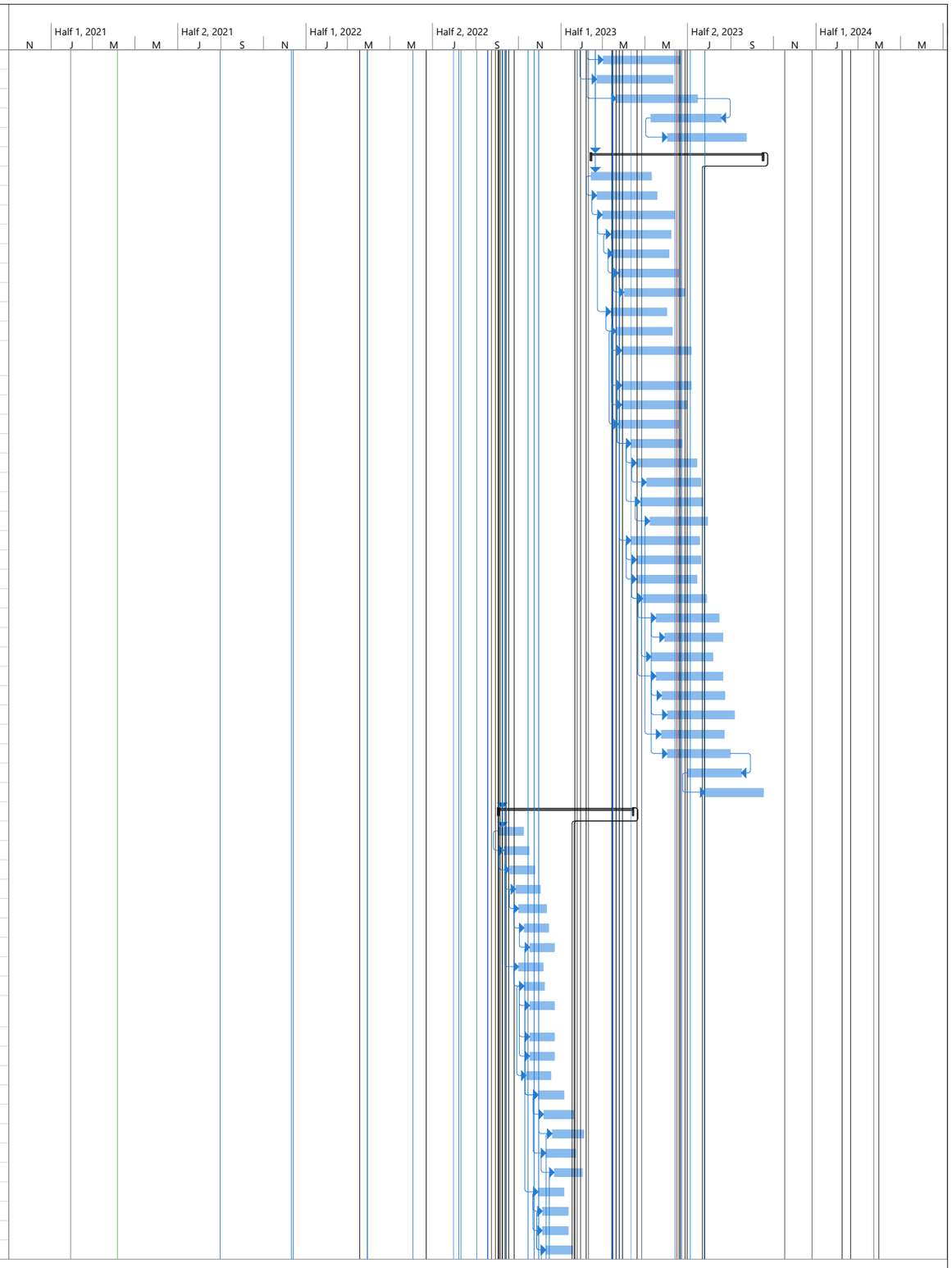
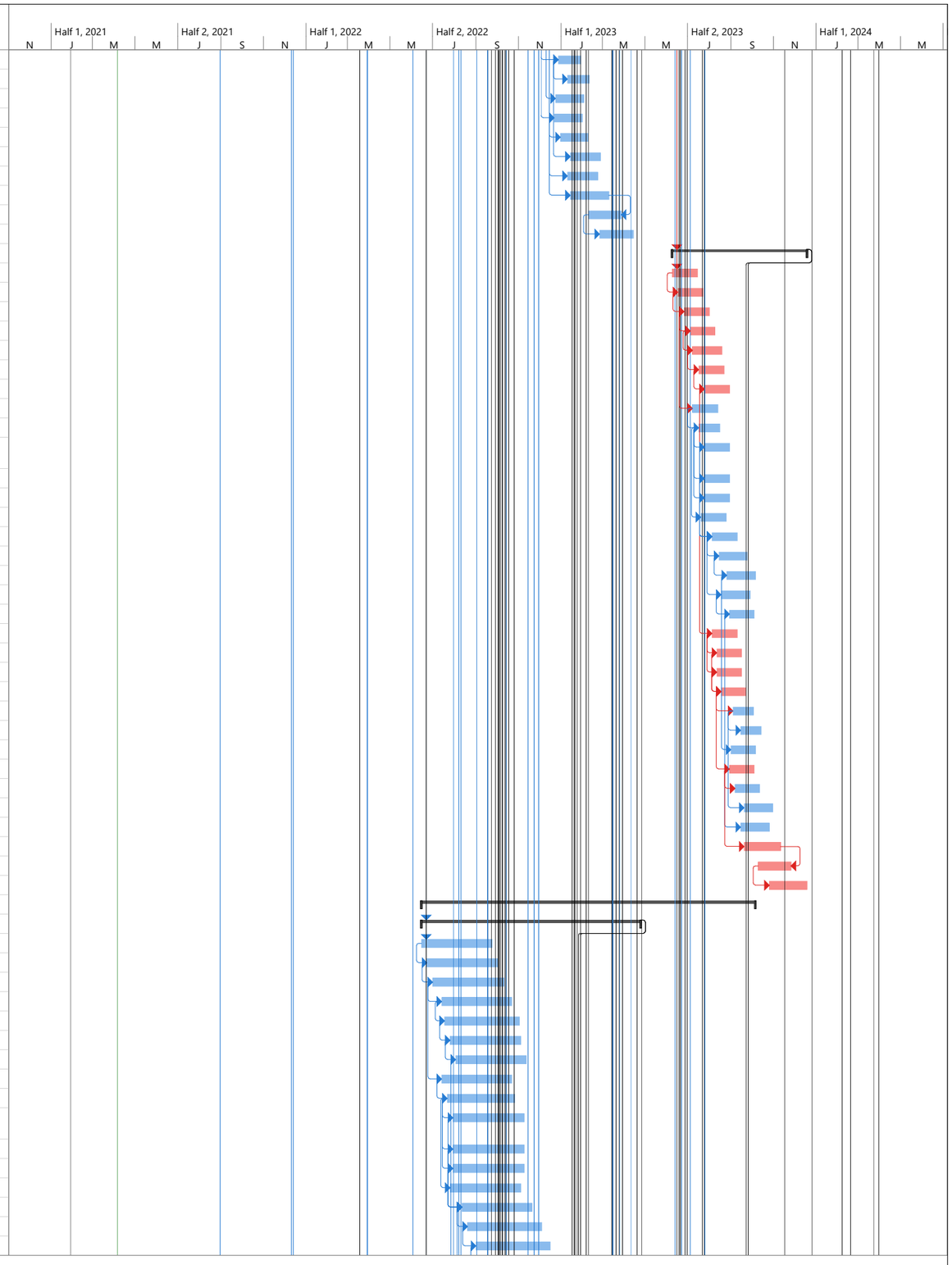
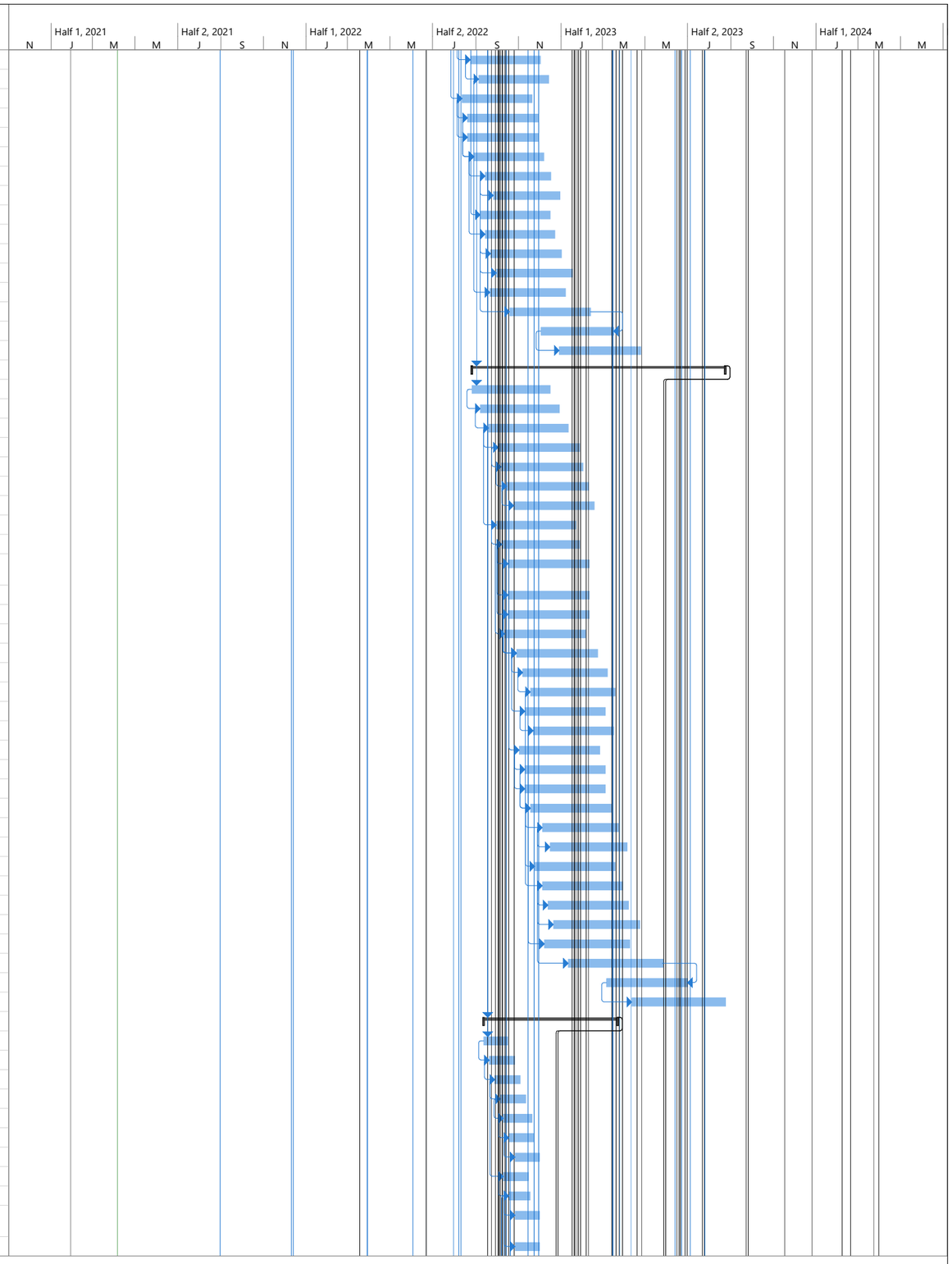
565		Door Panels to Wardrobe	90 days	02-03-23	19-06-23	560SS+14 days
566		Door Panels to kitchen Cabinets	90 days	21-02-23	09-06-23	555SS+14 days
567		Final Painting	95 days	21-03-23	14-07-23	563SS+30 days
568		Joinery Vanishing	85 days	09-05-23	17-08-23	567FF+28 days
569		Final Cleaning Of Units	95 days	02-06-23	22-09-23	568SS+21 days
570		Block 20 (1) (5 Storey)	205 days	13-02-23	16-10-23	290
571		Structural Clearance	70 days	13-02-23	09-05-23	290
572		Skim Coat (Ceiling)	70 days	21-02-23	17-05-23	571SS+7 days
573		Lightweight Panel	85 days	01-03-23	12-06-23	572SS+7 days
574		Door Frames	70 days	13-03-23	06-06-23	573SS+10 days
575		Window Frames	65 days	16-03-23	03-06-23	574SS+3 days
576		Plastering Base Coat	70 days	24-03-23	17-06-23	575SS+7 days
577		Plastering Finish Coat	70 days	01-04-23	26-06-23	576SS+7 days
578		Waterproofing & Ponding Tests to wet areas	65 days	13-03-23	31-05-23	573SS+10 days
579		Backing Screed to Bathrooms/ Kitchen / WC / Wet areas	65 days	21-03-23	08-06-23	578SS+7 days
580		Marble to Living, Dining, Kitchen, Study, Universal Room, Utility, Master Bedroom, Bathroom,Powder room	80 days	29-03-23	05-07-23	579SS+7 days
581		Tiling to WC / Household shelter / Balcony/PES	80 days	29-03-23	05-07-23	579SS+7 days
582		Balcony Railing	75 days	29-03-23	29-06-23	579SS+7 days
583		False Ceiling Frame	70 days	24-03-23	17-06-23	579SS+3 days
584		False Ceiling Board	60 days	11-04-23	22-06-23	581SS+10 days,582SS+10 days
585		Vanity Cabinet Carcass	70 days	19-04-23	13-07-23	584SS+7 days
586		Vanity Tops	65 days	03-05-23	19-07-23	585SS+10 days
587		Kitchen Cabinet Carcass	75 days	24-04-23	22-07-23	584SS+10 days
588		Kitchen cabinet Tops	70 days	08-05-23	28-07-23	587SS+10 days
589		Skirting Installation	80 days	11-04-23	17-07-23	577SS+7 days
590		Window Glazing	75 days	19-04-23	19-07-23	589SS+7 days
591		Fixed Screen	70 days	19-04-23	13-07-23	589SS+7 days
592		Engineered Timber flooring	75 days	28-04-23	27-07-23	590SS+7 days,591SS+7 days
593		Wardrobe Carcass	75 days	17-05-23	14-08-23	592SS+14 days
594		Painting - Sealer Coat	70 days	29-05-23	19-08-23	593SS+10 days
595		Shower Screen and Sanitary Ware	75 days	10-05-23	05-08-23	586SS+5 days
596		Apartment Doors	80 days	17-05-23	19-08-23	592SS+14 days
597		Apartment Doors Ironmongery	75 days	25-05-23	22-08-23	596SS+7 days
598		Door Panels to Wardrobe	80 days	02-06-23	05-09-23	593SS+14 days
599		Door Panels to kitchen Cabinets	75 days	24-05-23	21-08-23	588SS+14 days
600		Final Painting	75 days	02-06-23	30-08-23	596SS+14 days
601		Joinery Vanishing	65 days	01-07-23	15-09-23	600FF+14 days
602		Final Cleaning Of Units	70 days	26-07-23	16-10-23	601SS+21 days
603		Block 2 (4) (2 Storey)	160 days	03-10-22	13-04-23	298
604		Structural Clearance	30 days	03-10-22	07-11-22	298
605		Skim Coat (Ceiling)	30 days	11-10-22	15-11-22	604SS+7 days
606		Lightweight Panel	30 days	19-10-22	23-11-22	605SS+7 days
607		Door Frames	30 days	28-10-22	01-12-22	606SS+7 days
608		Window Frames	35 days	01-11-22	10-12-22	607SS+3 days
609		Plastering Base Coat	30 days	09-11-22	13-12-22	608SS+7 days
610		Plastering Finish Coat	30 days	17-11-22	21-12-22	609SS+7 days
611		Waterproofing & Ponding Tests to wet areas	30 days	01-11-22	05-12-22	606SS+10 days
612		Backing Screed to Bathrooms/ Kitchen / WC / Wet areas	25 days	09-11-22	07-12-22	611SS+7 days
613		Marble to Living, Dining, Kitchen, Study, Universal Room, Utility, Master Bedroom, Bathroom,Powder room	30 days	17-11-22	21-12-22	612SS+7 days
614		Tiling to WC / Household shelter / Balcony/PES	30 days	17-11-22	21-12-22	612SS+7 days
615		Balcony Railing	30 days	17-11-22	21-12-22	612SS+7 days
616		False Ceiling Frame	30 days	12-11-22	16-12-22	612SS+3 days
617		False Ceiling Board	30 days	29-11-22	04-01-23	613SS+10 days,614SS+10 days,615SS+10 days
618		Vanity Cabinet Carcass	35 days	07-12-22	18-01-23	617SS+7 days
619		Vanity Tops	35 days	19-12-22	01-02-23	618SS+10 days
620		Kitchen Cabinet Carcass	35 days	10-12-22	21-01-23	617SS+10 days
621		Kitchen cabinet Tops	30 days	22-12-22	30-01-23	620SS+10 days
622		Skirting Installation	30 days	29-11-22	04-01-23	610SS+10 days
623		Window Glazing	30 days	05-12-22	10-01-23	622SS+5 days
624		Fixed Screen	30 days	05-12-22	10-01-23	622SS+5 days
625		Engineered Timber flooring	30 days	10-12-22	16-01-23	623SS+5 days,624SS+5 days



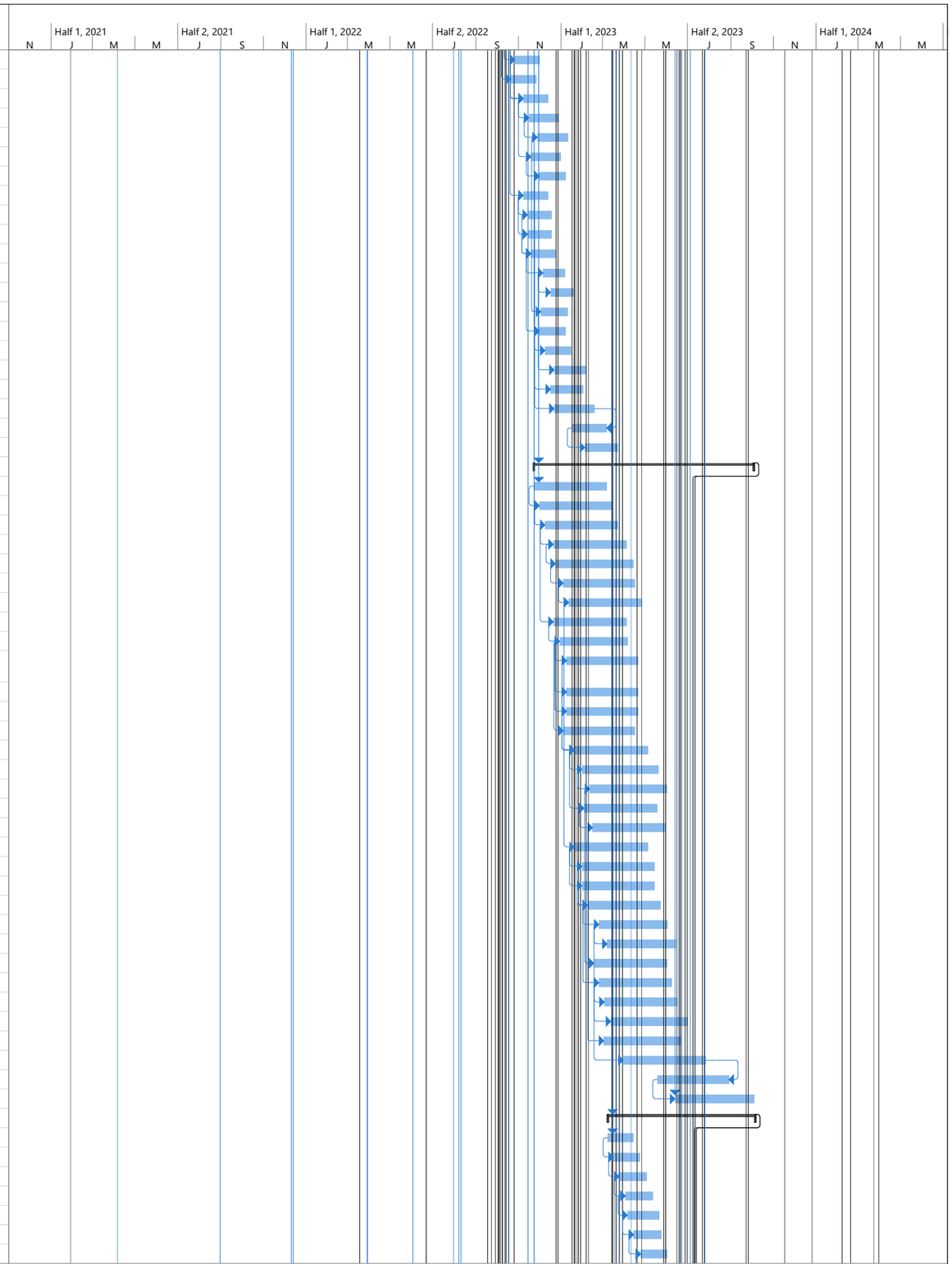
ID	Task Mod	Task Name	Duration	Start	Finish	Predecessors
626		Wardrobe Carcass	25 days	28-12-22	28-01-23	625SS+14 days
627		Painting - Sealer Coat	25 days	10-01-23	09-02-23	626SS+10 days
628		Shower Screen and Sanitary Ware	30 days	24-12-22	01-02-23	619SS+5 days
629		Apartment Doors	30 days	22-12-22	30-01-23	625SS+10 days
630		Apartment Doors Ironmongery	30 days	31-12-22	07-02-23	629SS+7 days
631		Door Panels to Wardrobe	35 days	14-01-23	25-02-23	626SS+14 days
632		Door Panels to kitchen Cabinets	35 days	10-01-23	21-02-23	621SS+14 days
633		Final Painting	45 days	14-01-23	09-03-23	629SS+18 days
634		Joinery Vanishing	40 days	09-02-23	27-03-23	633FF+15 days
635		Final Cleaning Of Units	40 days	25-02-23	13-04-23	634SS+14 days
636		Block 18 (3) (3 Storey)	162 days	09-06-23	18-12-23	305
637		Structural Clearance	30 days	09-06-23	14-07-23	305
638		Skim Coat (Ceiling)	30 days	17-06-23	22-07-23	637SS+7 days
639		Lightweight Panel	30 days	26-06-23	31-07-23	638SS+7 days
640		Door Frames	30 days	05-07-23	08-08-23	639SS+7 days
641		Window Frames	35 days	08-07-23	18-08-23	640SS+3 days
642		Plastering Base Coat	30 days	17-07-23	21-08-23	641SS+7 days
643		Plastering Finish Coat	30 days	25-07-23	29-08-23	642SS+7 days
644		Waterproofing & Ponding Tests to wet areas	30 days	08-07-23	12-08-23	639SS+10 days
645		Backing Screed to Bathrooms/ Kitchen / WC / Wet areas	25 days	17-07-23	15-08-23	644SS+7 days
646		Marble to Living, Dining, Kitchen, Study, Universal Room, Utility, Master Bedroom, Bathroom,Powder room	30 days	25-07-23	29-08-23	645SS+7 days
647		Tiling to WC / Household shelter / Balcony/PES	30 days	25-07-23	29-08-23	645SS+7 days
648		Balcony Railing	30 days	25-07-23	29-08-23	645SS+7 days
649		False Ceiling Frame	30 days	20-07-23	24-08-23	645SS+3 days
650		False Ceiling Board	30 days	05-08-23	09-09-23	646SS+10 days,647SS+10 days,648SS+10 days
651		Vanity Cabinet Carcass	35 days	15-08-23	23-09-23	650SS+7 days
652		Vanity Tops	35 days	26-08-23	05-10-23	651SS+10 days
653		Kitchen Cabinet Carcass	35 days	18-08-23	27-09-23	650SS+10 days
654		Kitchen cabinet Tops	30 days	30-08-23	03-10-23	653SS+10 days
655		Skirting Installation	30 days	05-08-23	09-09-23	643SS+10 days
656		Window Glazing	30 days	12-08-23	15-09-23	655SS+5 days
657		Fixed Screen	30 days	12-08-23	15-09-23	655SS+5 days
658		Engineered Timber flooring	30 days	18-08-23	21-09-23	656SS+5 days,657SS+5 days
659		Wardrobe Carcass	25 days	04-09-23	02-10-23	658SS+14 days
660		Painting - Sealer Coat	25 days	15-09-23	13-10-23	659SS+10 days
661		Shower Screen and Sanitary Ware	30 days	01-09-23	05-10-23	652SS+5 days
662		Apartment Doors	30 days	30-08-23	03-10-23	658SS+10 days
663		Apartment Doors Ironmongery	30 days	07-09-23	11-10-23	662SS+7 days
664		Door Panels to Wardrobe	35 days	20-09-23	30-10-23	659SS+14 days
665		Door Panels to kitchen Cabinets	35 days	15-09-23	25-10-23	654SS+14 days
666		Final Painting	45 days	20-09-23	10-11-23	662SS+18 days
667		Joinery Vanishing	40 days	10-10-23	25-11-23	666FF+12 days
668		Final Cleaning Of Units	45 days	26-10-23	18-12-23	667SS+14 days
669		Zone B	397 days	15-06-22	05-10-23	
670		Block 12 (9) (8 Storey)	260 days	15-06-22	24-04-23	312
671		Structural Clearance	85 days	15-06-22	23-09-22	312
672		Skim Coat (Ceiling)	85 days	23-06-22	01-10-22	671SS+7 days
673		Lightweight Panel	85 days	01-07-22	10-10-22	672SS+7 days
674		Door Frames	85 days	14-07-22	21-10-22	673SS+10 days
675		Window Frames	90 days	18-07-22	01-11-22	674SS+3 days
676		Plastering Base Coat	85 days	26-07-22	03-11-22	675SS+7 days
677		Plastering Finish Coat	85 days	03-08-22	11-11-22	676SS+7 days
678		Waterproofing & Ponding Tests to wet areas	85 days	14-07-22	21-10-22	673SS+10 days
679		Backing Screed to Bathrooms/ Kitchen / WC / Wet areas	80 days	22-07-22	25-10-22	678SS+7 days
680		Marble to Living, Dining, Kitchen, Study, Universal Room, Utility, Master Bedroom, Bathroom,Powder room	85 days	30-07-22	08-11-22	679SS+7 days
681		Tiling to WC / Household shelter / Balcony/PES	85 days	30-07-22	08-11-22	679SS+7 days
682		Balcony Railing	85 days	30-07-22	08-11-22	679SS+7 days
683		False Ceiling Frame	85 days	26-07-22	03-11-22	679SS+3 days
684		False Ceiling Board	85 days	12-08-22	19-11-22	681SS+10 days,680SS+10 days,682SS+10 days
685		Vanity Cabinet Carcass	90 days	20-08-22	03-12-22	684SS+7 days
686		Vanity Tops	90 days	01-09-22	15-12-22	685SS+10 days



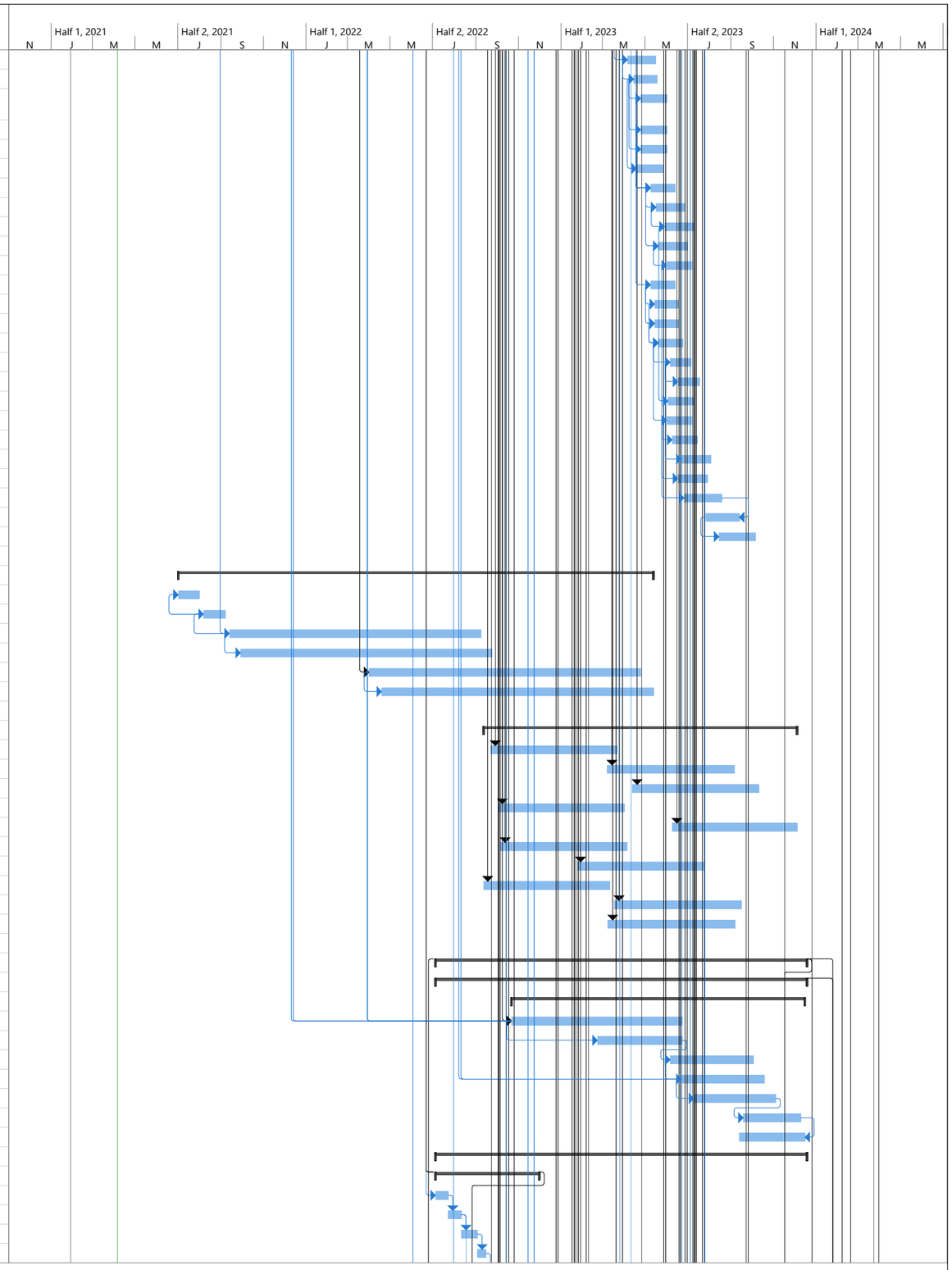
ID	Task Mod	Task Name	Duration	Start	Finish	Predecessors
687		Kitchen Cabinet Carcass	85 days	24-08-22	01-12-22	684SS+10 days
688		Kitchen cabinet Tops	85 days	05-09-22	13-12-22	687SS+10 days
689		Skirting Installation	85 days	12-08-22	19-11-22	677SS+7 days
690		Window Glazing	85 days	20-08-22	28-11-22	689SS+7 days
691		Fixed Screen	85 days	20-08-22	28-11-22	689SS+7 days
692		Engineered Timber flooring	85 days	29-08-22	06-12-22	690SS+7 days,691SS+7 days
693		Wardrobe Carcass	80 days	14-09-22	16-12-22	692SS+14 days
694		Painting - Sealer Coat	80 days	26-09-22	29-12-22	693SS+10 days
695		Shower Screen and Sanitary Ware	85 days	07-09-22	15-12-22	686SS+5 days
696		Apartment Doors	85 days	14-09-22	22-12-22	692SS+14 days
697		Apartment Doors Ironmongery	85 days	22-09-22	31-12-22	696SS+7 days
698		Door Panels to Wardrobe	90 days	30-09-22	16-01-23	693SS+14 days
699		Door Panels to kitchen Cabinets	90 days	21-09-22	06-01-23	688SS+14 days
700		Final Painting	95 days	19-10-22	11-02-23	696SS+30 days
701		Joinery Vanishing	85 days	03-12-22	16-03-23	700FF+28 days
702		Final Cleaning Of Units	95 days	29-12-22	24-04-23	701SS+21 days
703		Block 10 (10) (10 Storey)	300 days	26-08-22	23-08-23	324
704		Structural Clearance	95 days	26-08-22	15-12-22	324
705		Skim Coat (Ceiling)	95 days	07-09-22	28-12-22	704SS+10 days
706		Lightweight Panel	95 days	19-09-22	10-01-23	705SS+10 days
707		Door Frames	95 days	03-10-22	26-01-23	706SS+12 days
708		Window Frames	95 days	07-10-22	31-01-23	707SS+4 days
709		Plastering Base Coat	95 days	15-10-22	08-02-23	708SS+7 days
710		Plastering Finish Coat	95 days	25-10-22	16-02-23	709SS+7 days
711		Waterproofing & Ponding Tests to wet areas	95 days	30-09-22	21-01-23	706SS+10 days
712		Backing Screed to Bathrooms/ Kitchen / WC / Wet areas	90 days	08-10-22	26-01-23	711SS+7 days
713		Marble to Living, Dining, Kitchen, Study, Universal Room, Utility, Master Bedroom, Bathroom,Powder room	95 days	17-10-22	09-02-23	712SS+7 days
714		Tiling to WC / Household shelter / Balcony/PES	95 days	17-10-22	09-02-23	712SS+7 days
715		Balcony Railing	95 days	17-10-22	09-02-23	712SS+7 days
716		False Ceiling Frame	95 days	12-10-22	04-02-23	712SS+3 days
717		False Ceiling Board	95 days	29-10-22	21-02-23	714SS+10 days,713SS+10 days,715SS+10 days
718		Vanity Cabinet Carcass	100 days	07-11-22	07-03-23	717SS+7 days
719		Vanity Tops	100 days	18-11-22	18-03-23	718SS+10 days
720		Kitchen Cabinet Carcass	95 days	10-11-22	04-03-23	717SS+10 days
721		Kitchen cabinet Tops	95 days	22-11-22	16-03-23	720SS+10 days
722		Skirting Installation	95 days	02-11-22	24-02-23	710SS+7 days
723		Window Glazing	95 days	10-11-22	04-03-23	722SS+7 days
724		Fixed Screen	95 days	10-11-22	04-03-23	722SS+7 days
725		Engineered Timber flooring	95 days	18-11-22	13-03-23	723SS+7 days,724SS+7 days
726		Wardrobe Carcass	90 days	05-12-22	23-03-23	725SS+14 days
727		Painting - Sealer Coat	90 days	16-12-22	04-04-23	726SS+10 days
728		Shower Screen and Sanitary Ware	95 days	24-11-22	18-03-23	719SS+5 days
729		Apartment Doors	95 days	05-12-22	29-03-23	725SS+14 days
730		Apartment Doors Ironmongery	95 days	13-12-22	06-04-23	729SS+7 days
731		Door Panels to Wardrobe	100 days	21-12-22	22-04-23	726SS+14 days
732		Door Panels to kitchen Cabinets	100 days	08-12-22	08-04-23	721SS+14 days
733		Final Painting	110 days	11-01-23	25-05-23	729SS+30 days
734		Joinery Vanishing	95 days	07-03-23	30-06-23	733FF+30 days
735		Final Cleaning Of Units	110 days	12-04-23	23-08-23	734SS+30 days
736		Block 8 (8) (2 Storey)	160 days	12-09-22	22-03-23	337
737		Structural Clearance	30 days	12-09-22	15-10-22	337
738		Skim Coat (Ceiling)	30 days	20-09-22	25-10-22	737SS+7 days
739		Lightweight Panel	30 days	28-09-22	02-11-22	738SS+7 days
740		Door Frames	30 days	06-10-22	10-11-22	739SS+7 days
741		Window Frames	35 days	10-10-22	19-11-22	740SS+3 days
742		Plastering Base Coat	30 days	18-10-22	22-11-22	741SS+7 days
743		Plastering Finish Coat	30 days	27-10-22	30-11-22	742SS+7 days
744		Waterproofing & Ponding Tests to wet areas	30 days	10-10-22	14-11-22	739SS+10 days
745		Backing Screed to Bathrooms/ Kitchen / WC / Wet areas	25 days	18-10-22	16-11-22	744SS+7 days
746		Marble to Living, Dining, Kitchen, Study, Universal Room, Utility, Master Bedroom, Bathroom,Powder room	30 days	27-10-22	30-11-22	745SS+7 days
747		Tiling to WC / Household shelter / Balcony/PES	30 days	27-10-22	30-11-22	745SS+7 days



ID	Task Mod	Task Name	Duration	Start	Finish	Predecessors
748		Balcony Railing	30 days	27-10-22	30-11-22	745SS+7 days
749		False Ceiling Frame	30 days	21-10-22	25-11-22	745SS+3 days
750		False Ceiling Board	30 days	08-11-22	12-12-22	747SS+10 days,746SS+10 days,748SS+10 days
751		Vanity Cabinet Carcass	35 days	16-11-22	27-12-22	750SS+7 days
752		Vanity Tops	35 days	28-11-22	09-01-23	751SS+10 days
753		Kitchen Cabinet Carcass	35 days	19-11-22	30-12-22	750SS+10 days
754		Kitchen cabinet Tops	30 days	01-12-22	06-01-23	753SS+10 days
755		Skirting Installation	30 days	08-11-22	12-12-22	743SS+10 days
756		Window Glazing	30 days	14-11-22	17-12-22	755SS+5 days
757		Fixed Screen	30 days	14-11-22	17-12-22	755SS+5 days
758		Engineered Timber flooring	30 days	19-11-22	23-12-22	756SS+5 days,757SS+5 days
759		Wardrobe Carcass	25 days	06-12-22	05-01-23	758SS+14 days
760		Painting - Sealer Coat	25 days	17-12-22	17-01-23	759SS+10 days
761		Shower Screen and Sanitary Ware	30 days	03-12-22	09-01-23	752SS+5 days
762		Apartment Doors	30 days	01-12-22	06-01-23	758SS+10 days
763		Apartment Doors Ironmongery	30 days	09-12-22	14-01-23	762SS+7 days
764		Door Panels to Wardrobe	35 days	22-12-22	04-02-23	759SS+14 days
765		Door Panels to kitchen Cabinets	35 days	17-12-22	31-01-23	754SS+14 days
766		Final Painting	45 days	22-12-22	16-02-23	762SS+18 days
767		Joinery Vanishing	40 days	17-01-23	06-03-23	766FF+15 days
768		Final Cleaning Of Units	40 days	04-02-23	22-03-23	767SS+14 days
769		Block 6 (6) (8 Storey)	260 days	23-11-22	03-10-23	344
770		Structural Clearance	85 days	23-11-22	06-03-23	344
771		Skim Coat (Ceiling)	85 days	01-12-22	14-03-23	770SS+7 days
772		Lightweight Panel	85 days	09-12-22	22-03-23	771SS+7 days
773		Door Frames	85 days	21-12-22	03-04-23	772SS+10 days
774		Window Frames	90 days	24-12-22	13-04-23	773SS+3 days
775		Plastering Base Coat	85 days	04-01-23	15-04-23	774SS+7 days
776		Plastering Finish Coat	85 days	12-01-23	25-04-23	775SS+7 days
777		Waterproofing & Ponding Tests to wet areas	85 days	21-12-22	03-04-23	772SS+10 days
778		Backing Screed to Bathrooms/ Kitchen / WC / Wet areas	80 days	30-12-22	05-04-23	777SS+7 days
779		Marble to Living, Dining, Kitchen, Study, Universal Room, Utility, Master Bedroom, Bathroom,Powder room	85 days	09-01-23	20-04-23	778SS+7 days
780		Tiling to WC / Household shelter / Balcony/PES	85 days	09-01-23	20-04-23	778SS+7 days
781		Balcony Railing	85 days	09-01-23	20-04-23	778SS+7 days
782		False Ceiling Frame	85 days	04-01-23	15-04-23	778SS+3 days
783		False Ceiling Board	85 days	20-01-23	04-05-23	780SS+10 days,779SS+10 days,781SS+10 days
784		Vanity Cabinet Carcass	90 days	31-01-23	19-05-23	783SS+7 days
785		Vanity Tops	90 days	11-02-23	31-05-23	784SS+10 days
786		Kitchen Cabinet Carcass	85 days	03-02-23	17-05-23	783SS+10 days
787		Kitchen cabinet Tops	85 days	15-02-23	29-05-23	786SS+10 days
788		Skirting Installation	85 days	20-01-23	04-05-23	776SS+7 days
789		Window Glazing	85 days	31-01-23	13-05-23	788SS+7 days
790		Fixed Screen	85 days	31-01-23	13-05-23	788SS+7 days
791		Engineered Timber flooring	85 days	08-02-23	22-05-23	789SS+7 days,790SS+7 days
792		Wardrobe Carcass	80 days	24-02-23	01-06-23	791SS+14 days
793		Painting - Sealer Coat	80 days	08-03-23	13-06-23	792SS+10 days
794		Shower Screen and Sanitary Ware	85 days	17-02-23	31-05-23	785SS+5 days
795		Apartment Doors	85 days	24-02-23	07-06-23	791SS+14 days
796		Apartment Doors Ironmongery	85 days	04-03-23	15-06-23	795SS+7 days
797		Door Panels to Wardrobe	90 days	13-03-23	30-06-23	792SS+14 days
798		Door Panels to kitchen Cabinets	90 days	03-03-23	20-06-23	787SS+14 days
799		Final Painting	95 days	31-03-23	25-07-23	795SS+30 days
800		Joinery Vanishing	85 days	19-05-23	28-08-23	799FF+28 days
801		Final Cleaning Of Units	95 days	13-06-23	03-10-23	800SS+21 days,449
802		Block 14 (7) (3 Storey)	175 days	09-03-23	05-10-23	356
803		Structural Clearance	30 days	09-03-23	13-04-23	356
804		Skim Coat (Ceiling)	30 days	17-03-23	22-04-23	803SS+7 days
805		Lightweight Panel	30 days	25-03-23	02-05-23	804SS+7 days
806		Door Frames	30 days	03-04-23	11-05-23	805SS+7 days
807		Window Frames	35 days	06-04-23	20-05-23	806SS+3 days
808		Plastering Base Coat	30 days	15-04-23	23-05-23	807SS+7 days
809		Plastering Finish Coat	30 days	25-04-23	31-05-23	808SS+7 days



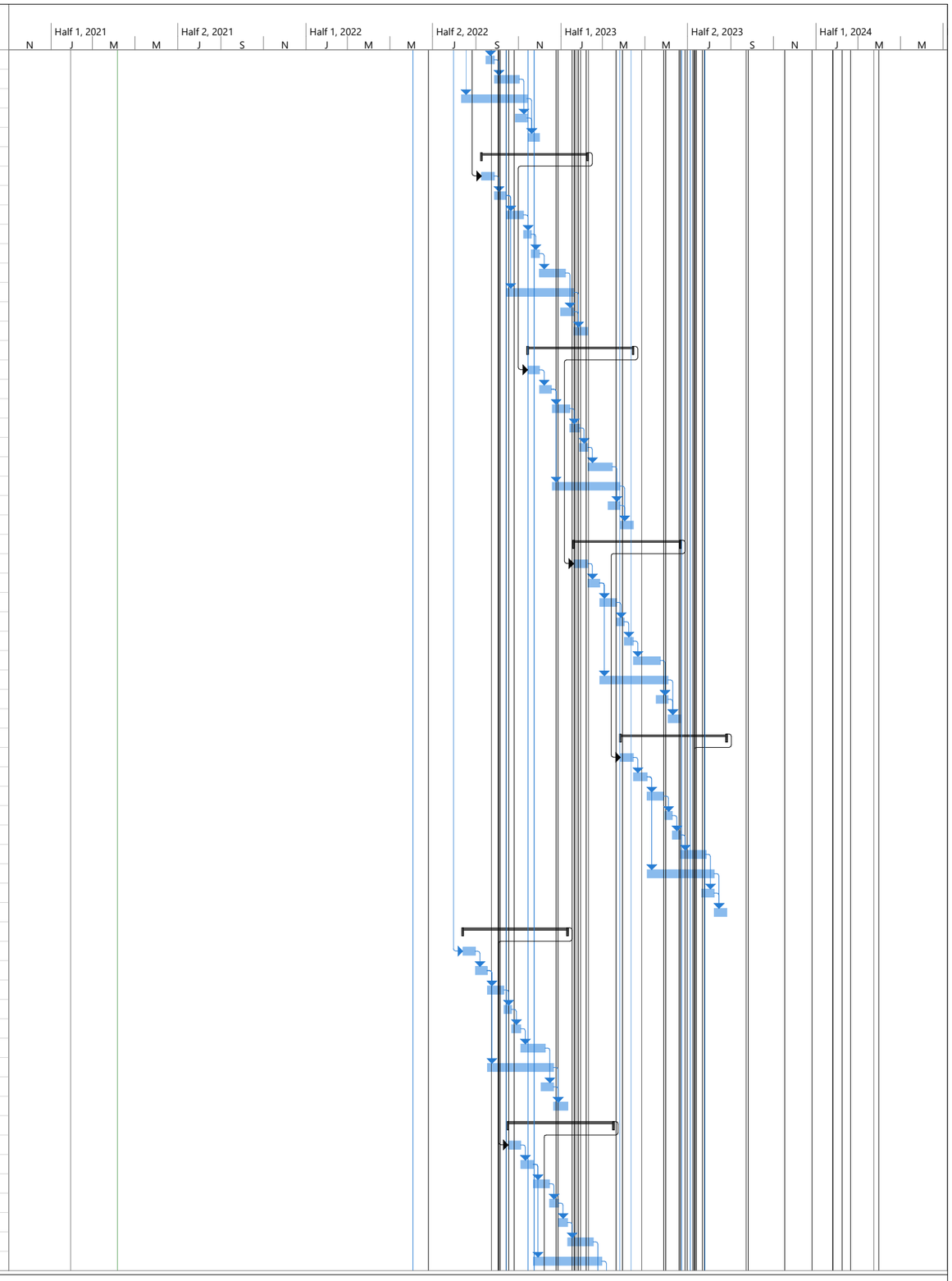
ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
810		Waterproofing & Ponding Tests to wet areas	30 days	06-04-23	15-05-23	805SS+10 days
811		Backing Screed to Bathrooms/ Kitchen / WC / Wet areas	25 days	15-04-23	17-05-23	810SS+7 days
812		Marble to Living, Dining, Kitchen, Study, Universal Room, Utility, Master Bedroom, Bathroom,Powder room	30 days	25-04-23	31-05-23	811SS+7 days
813		Tiling to WC / Household shelter / Balcony/PES	30 days	25-04-23	31-05-23	811SS+7 days
814		Balcony Railing	30 days	25-04-23	31-05-23	811SS+7 days
815		False Ceiling Frame	30 days	19-04-23	26-05-23	811SS+3 days
816		False Ceiling Board	30 days	09-05-23	12-06-23	813SS+10 days,812SS+10 days,814SS+10 days
817		Vanity Cabinet Carcass	35 days	17-05-23	26-06-23	816SS+7 days
818		Vanity Tops	35 days	29-05-23	08-07-23	817SS+10 days
819		Kitchen Cabinet Carcass	35 days	20-05-23	30-06-23	816SS+10 days
820		Kitchen cabinet Tops	30 days	01-06-23	06-07-23	819SS+10 days
821		Skirting Installation	30 days	09-05-23	12-06-23	809SS+10 days
822		Window Glazing	30 days	15-05-23	17-06-23	821SS+5 days
823		Fixed Screen	30 days	15-05-23	17-06-23	821SS+5 days
824		Engineered Timber flooring	30 days	20-05-23	23-06-23	822SS+5 days,823SS+5 days
825		Wardrobe Carcass	25 days	06-06-23	05-07-23	824SS+14 days
826		Painting - Sealer Coat	25 days	17-06-23	17-07-23	825SS+10 days
827		Shower Screen and Sanitary Ware	30 days	03-06-23	08-07-23	818SS+5 days
828		Apartment Doors	30 days	01-06-23	06-07-23	824SS+10 days
829		Apartment Doors Ironmongery	30 days	09-06-23	14-07-23	828SS+7 days
830		Door Panels to Wardrobe	35 days	22-06-23	02-08-23	825SS+14 days
831		Door Panels to kitchen Cabinets	35 days	17-06-23	28-07-23	820SS+14 days
832		Final Painting	45 days	26-06-23	18-08-23	828SS+21 days
833		Joinery Vanishing	40 days	27-07-23	12-09-23	832FF+21 days
834		Final Cleaning Of Units	45 days	15-08-23	05-10-23	833SS+15 days
835						
836		Marble	563 days	02-07-21	12-05-23	
837		Slab Review	25 days	02-07-21	31-07-21	838SS-30 days
838		Establish Dry Lay Sample	25 days	07-08-21	06-09-21	839SS-30 days
839		Drylay of marble for PBU	300 days	13-09-21	07-09-22	117SS-45 days
840		Approval for marble drylay for PBU	300 days	29-09-21	23-09-22	839SS+14 days
841		Drylay of marble for Unit	320 days	01-04-22	24-04-23	502SS-60 days
842		Approval for marble drylay for Unit	320 days	19-04-22	12-05-23	841SS+14 days
843						
844		Façade Works - External Cladding	373 days	12-09-22	04-12-23	
845		Block 22(2) (7 Storey)	150 days	22-09-22	21-03-23	261
846		Block 16(5) (8 Storey)	150 days	08-03-23	05-09-23	272
847		Block 20(1) (5 Storey)	150 days	13-04-23	10-10-23	284
848		Block 2(4) (2 Storey)	150 days	03-10-22	31-03-23	293
849		Block 18(3) (3 Storey)	150 days	09-06-23	04-12-23	299
850		Block 12(9) (8 Storey)	150 days	06-10-22	04-04-23	306
851		Block 10(10) (10 Storey)	150 days	25-01-23	24-07-23	318
852		Block 8(8) (2 Storey)	150 days	12-09-22	10-03-23	332
853		Block 6(6) (8 Storey)	150 days	18-03-23	15-09-23	338
854		Block 14(7) (3 Storey)	150 days	09-03-23	06-09-23	350
855						
856		E-deck (Architectural / M&E Works)	442 days	05-07-22	18-12-23	
857		Basement 1&2	442 days	05-07-22	18-12-23	
858		**Carparks Finishing works**	348 days	22-10-22	15-12-23	
859		Skim coat & Plaster to wall and columns	200 days	22-10-22	22-06-23	228FS-50 days
860		Painting	100 days	22-02-23	22-06-23	859SS+100 days
861		Column Guards	100 days	06-06-23	02-10-23	860FS-15 days
862		Signages	100 days	22-06-23	18-10-23	861SS+14 days
863		Carpark Screeding with Hardener	100 days	10-07-23	03-11-23	862SS+14 days
864		Wheel Stopper	70 days	19-09-23	09-12-23	863FS-40 days
865		Carpark lot marking (include directional signs)	80 days	13-09-23	15-12-23	864FF+5 days
866		**Lift Lobby and M&E rooms**	**442 days**	**05-07-22**	**18-12-23**	
867		**Block 22 (2) (7 Storey)**	**125 days**	**05-07-22**	**30-11-22**	
868		Lightweight Panel	15 days	05-07-22	22-07-22	363FS-60 days
869		Plastering Base Coat	15 days	23-07-22	10-08-22	868
870		Plastering Finish Coat / Wall Finishes	20 days	11-08-22	02-09-22	869
871		False Ceiling Frame	10 days	03-09-22	14-09-22	870



Proj: Master Programme_The Reef at King's Dock
Proj Reference: MP/RKD/02/21
Date: 06 April 2021

Task | Split | Milestone | Summary | Project Summary | Inactive Task | Inactive Milestone | Inactive Summary | Manual Task | Duration-only | Manual Summary Rollup | Manual Summary | Start-only | Finish-only | External Tasks | External Milestone | Deadline | Critical | Critical Split | Progress | Manual Progress

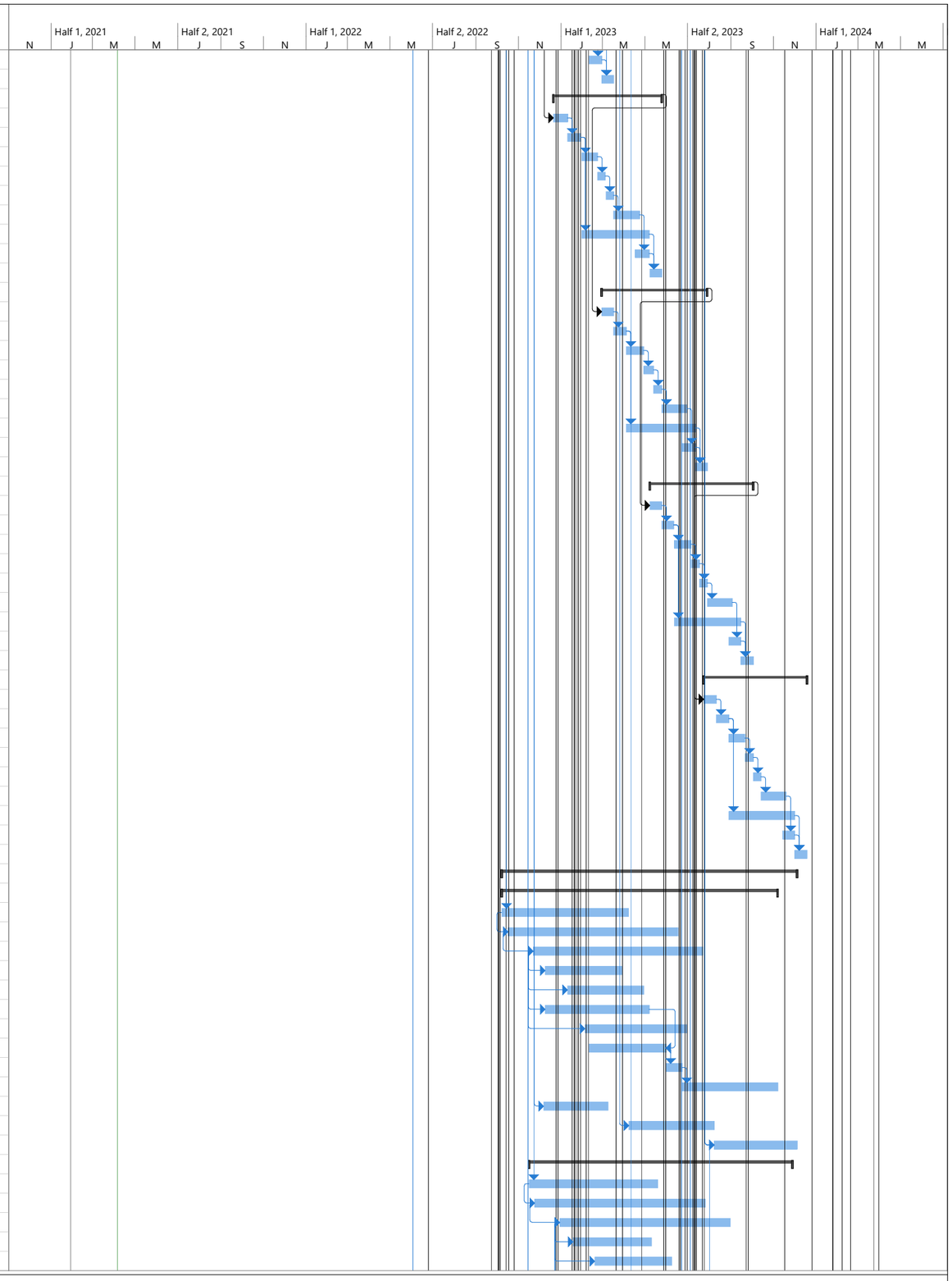
ID	Task Mod	Task Name	Duration	Start	Finish	Predecessors
872		False Ceiling Board	10 days	15-09-22	26-09-22	871
873		Floor Finishes	30 days	27-09-22	01-11-22	872
874		M&E Works	80 days	11-08-22	12-11-22	869
875		Fire Glass Door/ Fixed Panel	15 days	27-10-22	12-11-22	873FS-5 days
876		Final Painting	15 days	14-11-22	30-11-22	874,875
877		**Block 16 (5) (8 Storey)**	**125 days**	**09-09-22**	**07-02-23**	
878		Lightweight Panel	15 days	09-09-22	26-09-22	867FS-70 days
879		Plastering Base Coat	15 days	27-09-22	13-10-22	878
880		Plastering Finish Coat / Wall Finishes	20 days	14-10-22	07-11-22	879
881		False Ceiling Frame	10 days	08-11-22	18-11-22	880
882		False Ceiling Board	10 days	19-11-22	30-11-22	881
883		Floor Finishes	30 days	01-12-22	06-01-23	882
884		M&E Works	80 days	14-10-22	18-01-23	879
885		Fire Glass Door/ Fixed Panel	15 days	31-12-22	18-01-23	883FS-5 days
886		Final Painting	15 days	19-01-23	07-02-23	884,885
887		**Block 20 (1) (5 Storey)**	**125 days**	**14-11-22**	**13-04-23**	
888		Lightweight Panel	15 days	14-11-22	30-11-22	877FS-70 days
889		Plastering Base Coat	15 days	01-12-22	17-12-22	888
890		Plastering Finish Coat / Wall Finishes	20 days	19-12-22	12-01-23	889
891		False Ceiling Frame	10 days	13-01-23	26-01-23	890
892		False Ceiling Board	10 days	27-01-23	07-02-23	891
893		Floor Finishes	30 days	08-02-23	14-03-23	892
894		M&E Works	80 days	19-12-22	25-03-23	889
895		Fire Glass Door/ Fixed Panel	15 days	09-03-23	25-03-23	893FS-5 days
896		Final Painting	15 days	27-03-23	13-04-23	894,895
897		**Block 2 (4) (2 Storey)**	**125 days**	**19-01-23**	**20-06-23**	
898		Lightweight Panel	15 days	19-01-23	07-02-23	887FS-70 days
899		Plastering Base Coat	15 days	08-02-23	24-02-23	898
900		Plastering Finish Coat / Wall Finishes	20 days	25-02-23	20-03-23	899
901		False Ceiling Frame	10 days	21-03-23	31-03-23	900
902		False Ceiling Board	10 days	01-04-23	13-04-23	901
903		Floor Finishes	30 days	14-04-23	22-05-23	902
904		M&E Works	80 days	25-02-23	02-06-23	899
905		Fire Glass Door/ Fixed Panel	15 days	17-05-23	02-06-23	903FS-5 days
906		Final Painting	15 days	03-06-23	20-06-23	904,905
907		**Block 18 (3) (3 Storey)**	**125 days**	**27-03-23**	**25-08-23**	
908		Lightweight Panel	15 days	27-03-23	13-04-23	897FS-70 days
909		Plastering Base Coat	15 days	14-04-23	03-05-23	908
910		Plastering Finish Coat / Wall Finishes	20 days	04-05-23	27-05-23	909
911		False Ceiling Frame	10 days	29-05-23	08-06-23	910
912		False Ceiling Board	10 days	09-06-23	20-06-23	911
913		Floor Finishes	30 days	21-06-23	26-07-23	912
914		M&E Works	80 days	04-05-23	07-08-23	909
915		Fire Glass Door/ Fixed Panel	15 days	21-07-23	07-08-23	913FS-5 days
916		Final Painting	15 days	08-08-23	25-08-23	914,915
917		**Block 12 (9) (8 Storey)**	**125 days**	**13-08-22**	**09-01-23**	
918		Lightweight Panel	15 days	13-08-22	30-08-22	364FS-60 days
919		Plastering Base Coat	15 days	31-08-22	16-09-22	918
920		Plastering Finish Coat / Wall Finishes	20 days	17-09-22	10-10-22	919
921		False Ceiling Frame	10 days	11-10-22	21-10-22	920
922		False Ceiling Board	10 days	22-10-22	03-11-22	921
923		Floor Finishes	30 days	04-11-22	08-12-22	922
924		M&E Works	80 days	17-09-22	20-12-22	919
925		Fire Glass Door/ Fixed Panel	15 days	03-12-22	20-12-22	923FS-5 days
926		Final Painting	15 days	21-12-22	09-01-23	924,925
927		**Block 10 (10) (10 Storey)**	**125 days**	**17-10-22**	**16-03-23**	
928		Lightweight Panel	15 days	17-10-22	03-11-22	917FS-70 days
929		Plastering Base Coat	15 days	04-11-22	21-11-22	928
930		Plastering Finish Coat / Wall Finishes	20 days	22-11-22	14-12-22	929
931		False Ceiling Frame	10 days	15-12-22	27-12-22	930
932		False Ceiling Board	10 days	28-12-22	09-01-23	931
933		Floor Finishes	30 days	10-01-23	15-02-23	932
934		M&E Works	80 days	22-11-22	27-02-23	929



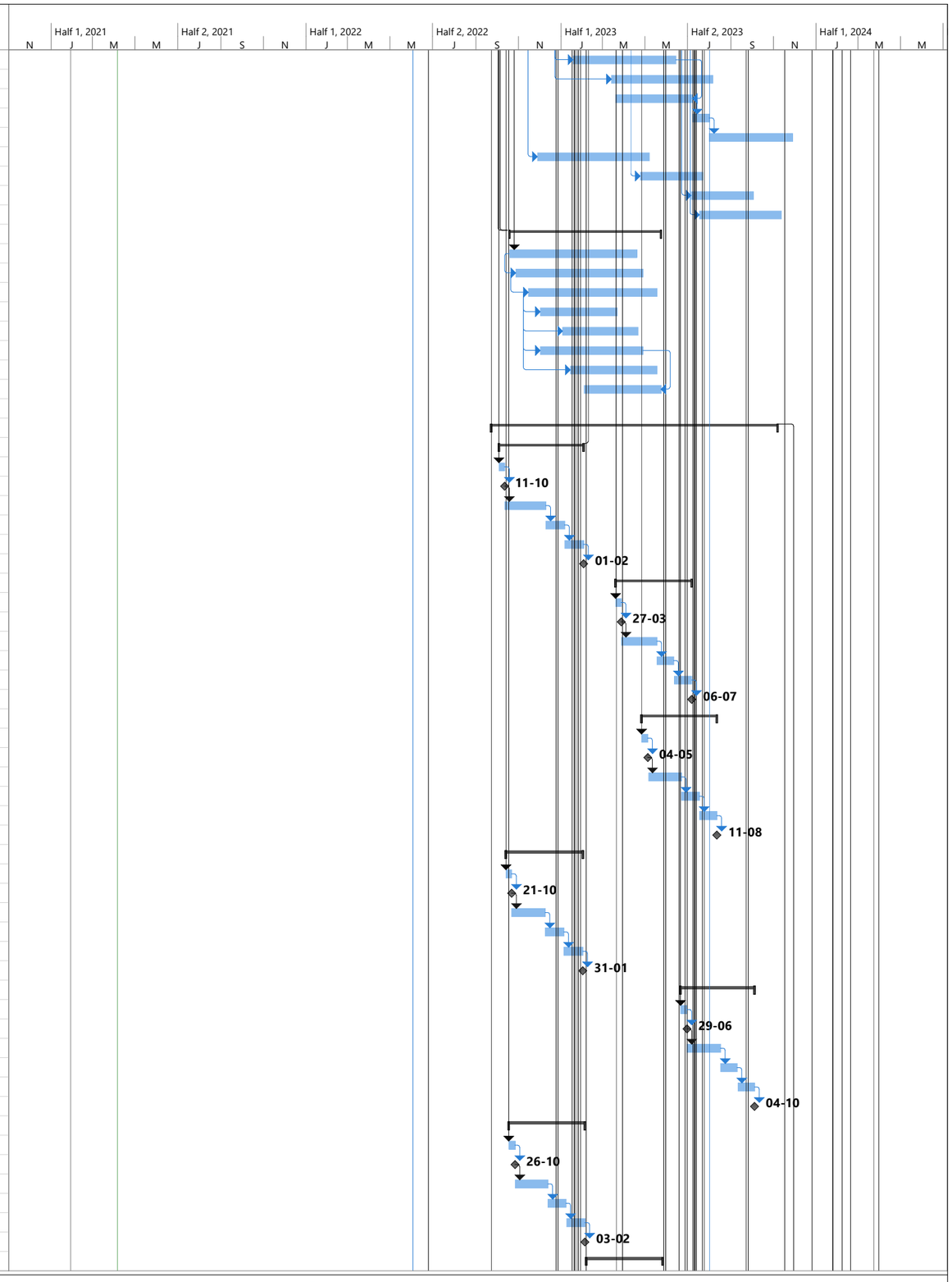
Proj: Master Programme_The Reef at King's Dock
Proj Reference: MP/RKD/02/21
Date: 06 April 2021

Task
Split
Milestone
Summary
Project Summary
Inactive Task
Inactive Milestone
Inactive Summary
Manual Task
Duration-only
Manual Summary Rollup
Manual Summary
Start-only
Finish-only
External Tasks
External Milestone
Deadline
Critical
Critical Split
Progress
Manual Progress

ID	Task Mod	Task Name	Duration	Start	Finish	Predecessors
935		Fire Glass Door/ Fixed Panel	15 days	10-02-23	27-02-23	933FS-5 days
936		Final Painting	15 days	28-02-23	16-03-23	934,935
937		**Block 8 (8) (2 Storey)**	**125 days**	**21-12-22**	**24-05-23**	
938		Lightweight Panel	15 days	21-12-22	09-01-23	927FS-70 days
939		Plastering Base Coat	15 days	10-01-23	28-01-23	938
940		Plastering Finish Coat / Wall Finishes	20 days	30-01-23	21-02-23	939
941		False Ceiling Frame	10 days	22-02-23	04-03-23	940
942		False Ceiling Board	10 days	06-03-23	16-03-23	941
943		Floor Finishes	30 days	17-03-23	22-04-23	942
944		M&E Works	80 days	30-01-23	06-05-23	939
945		Fire Glass Door/ Fixed Panel	15 days	17-04-23	06-05-23	943FS-5 days
946		Final Painting	15 days	08-05-23	24-05-23	944,945
947		**Block 6 (6) (8 Storey)**	**125 days**	**28-02-23**	**28-07-23**	
948		Lightweight Panel	15 days	28-02-23	16-03-23	937FS-70 days
949		Plastering Base Coat	15 days	17-03-23	03-04-23	948
950		Plastering Finish Coat / Wall Finishes	20 days	04-04-23	28-04-23	949
951		False Ceiling Frame	10 days	29-04-23	12-05-23	950
952		False Ceiling Board	10 days	13-05-23	24-05-23	951
953		Floor Finishes	30 days	25-05-23	29-06-23	952
954		M&E Works	80 days	04-04-23	11-07-23	949
955		Fire Glass Door/ Fixed Panel	15 days	23-06-23	11-07-23	953FS-5 days
956		Final Painting	15 days	12-07-23	28-07-23	954,955
957		**Block 14 (7) (3 Storey)**	**125 days**	**08-05-23**	**02-10-23**	
958		Lightweight Panel	15 days	08-05-23	24-05-23	947FS-70 days
959		Plastering Base Coat	15 days	25-05-23	10-06-23	958
960		Plastering Finish Coat / Wall Finishes	20 days	12-06-23	05-07-23	959
961		False Ceiling Frame	10 days	06-07-23	17-07-23	960
962		False Ceiling Board	10 days	18-07-23	28-07-23	961
963		Floor Finishes	30 days	29-07-23	02-09-23	962
964		M&E Works	80 days	12-06-23	14-09-23	959
965		Fire Glass Door/ Fixed Panel	15 days	29-08-23	14-09-23	963FS-5 days
966		Final Painting	15 days	15-09-23	02-10-23	964,965
967		**Common Area lift lobby**	**125 days**	**24-07-23**	**18-12-23**	
968		Lightweight Panel	15 days	24-07-23	10-08-23	**907FS-60 days,957FS-60 days**
969		Plastering Base Coat	15 days	11-08-23	28-08-23	968
970		Plastering Finish Coat / Wall Finishes	20 days	29-08-23	20-09-23	969
971		False Ceiling Frame	10 days	21-09-23	02-10-23	970
972		False Ceiling Board	10 days	03-10-23	13-10-23	971
973		Floor Finishes	30 days	14-10-23	18-11-23	972
974		M&E Works	80 days	29-08-23	30-11-23	969
975		Fire Glass Door/ Fixed Panel	15 days	14-11-23	30-11-23	973FS-5 days
976		Final Painting	15 days	01-12-23	18-12-23	974,975
977		**Level 1**	**350 days**	**08-10-22**	**04-12-23**	
978		**Zone A**	**327 days**	**08-10-22**	**06-11-23**	
979		Structural Clearance	150 days	08-10-22	06-04-23	366
980		Waterproofing	200 days	17-10-22	16-06-23	979SS+7 days
981		Floor Finishes	200 days	22-11-22	22-07-23	980SS+30 days
982		Metal Work	90 days	09-12-22	28-03-23	981SS+15 days
983		Timber Work	90 days	10-01-23	28-04-23	981SS+40 days
984		M&E works	120 days	09-12-22	06-05-23	981SS+15 days
985		Landscaping	120 days	04-02-23	29-06-23	981SS+60 days
986		Signages	90 days	10-02-23	30-05-23	984FF+20 days
987		Pedestrian Gate (1 number)	20 days	31-05-23	22-06-23	986
988		Boundary walls / fencing works	115 days	23-06-23	06-11-23	987
989		Pavilion 1 (Twilight Pavilion)	75 days	07-12-22	08-03-23	370FS-50 days
990		Guardhouse / Drop off	100 days	08-04-23	07-08-23	371FS-50 days
991		Clubhouse (King's Club)	100 days	08-08-23	04-12-23	372FS-50 days
992		**Zone B**	**312 days**	**16-11-22**	**27-11-23**	
993		Structural Clearance	150 days	16-11-22	18-05-23	367
994		Waterproofing	200 days	24-11-22	25-07-23	993SS+7 days
995		Floor Finishes	200 days	30-12-22	30-08-23	994SS+30 days
996		Metal Work	90 days	18-01-23	09-05-23	995SS+15 days
997		Timber Work	90 days	18-02-23	07-06-23	995SS+40 days



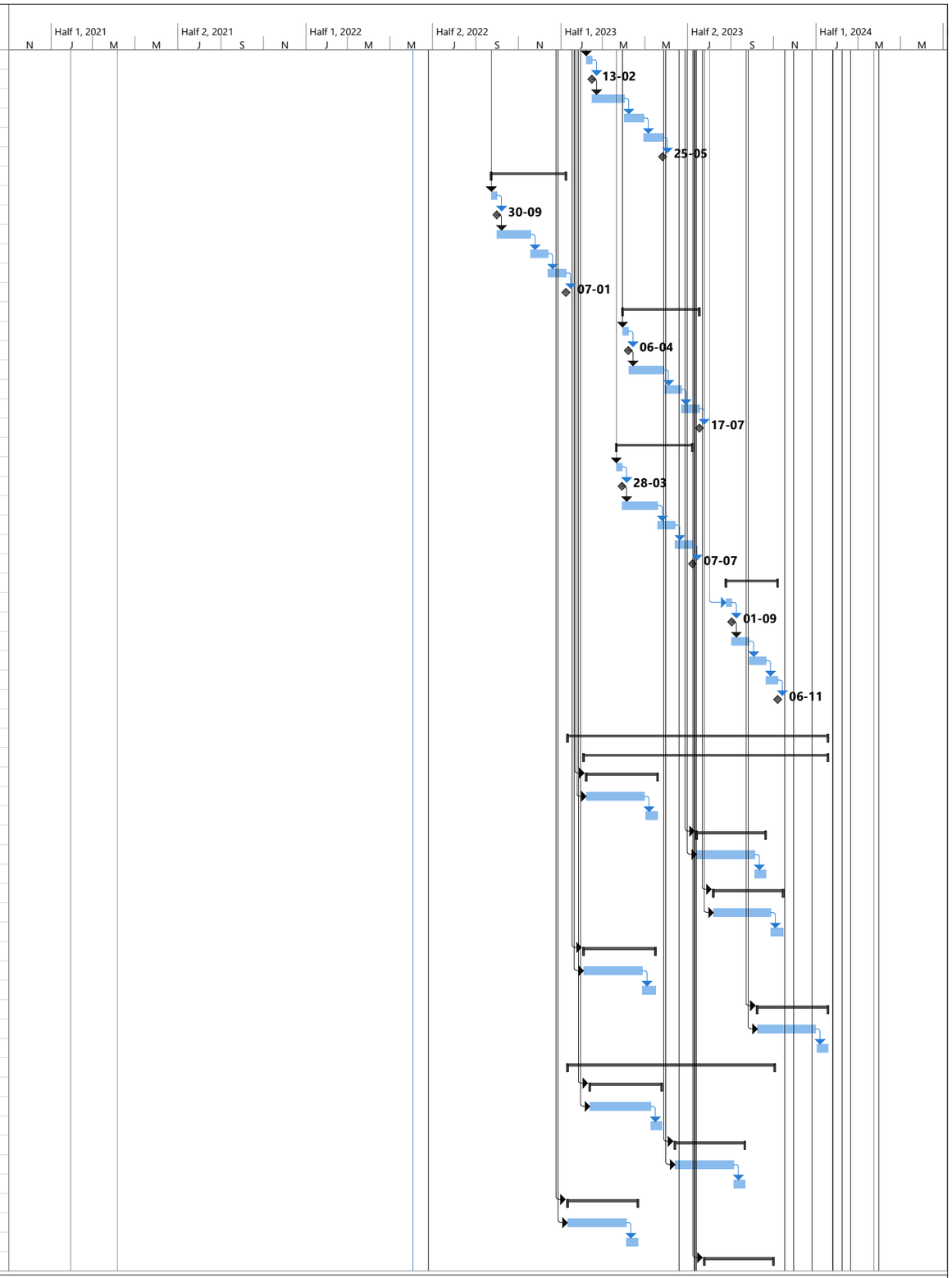
ID	Task Mod	Task Name	Duration	Start	Finish	Predecessors
998		M&E works	120 days	18-01-23	13-06-23	995SS+15 days
999		Landscaping	120 days	14-03-23	05-08-23	995SS+60 days
1000		Signages	90 days	20-03-23	07-07-23	998FF+20 days
1001		Pedestrian Gates (2 numbers)	20 days	08-07-23	31-07-23	1000
1002		Boundary walls / fencing works	100 days	01-08-23	27-11-23	1001
1003		Tennis court	130 days	28-11-22	06-05-23	375FS-50 days
1004		King's Lounge (Function room 2)	75 days	24-04-23	22-07-23	377FS-50 days
1005		Pavilion 2 (Social Pavilion)	75 days	06-07-23	02-10-23	378FS-50 days
1006		Pavilion 3 (Gourmet Pavilion)	100 days	18-07-23	11-11-23	379FS-50 days
1007		**Floating Deck Amenities**	**177 days**	**19-10-22**	**23-05-23**	
1008		Structural Clearance	150 days	19-10-22	18-04-23	381
1009		Waterproofing	150 days	28-10-22	27-04-23	1008SS+7 days
1010		Floor Finishes	150 days	15-11-22	17-05-23	1009SS+15 days
1011		Metal Work	90 days	02-12-22	21-03-23	1010SS+15 days
1012		Timber Work	90 days	03-01-23	20-04-23	1010SS+40 days
1013		M&E works	120 days	02-12-22	27-04-23	1010SS+15 days
1014		Landscaping	100 days	14-01-23	17-05-23	1010SS+50 days
1015		Signages	90 days	03-02-23	23-05-23	1013FF+20 days
1016						
1017		Lift Installation including Internal Finishes / T&C	340 days	23-09-22	06-11-23	
1018		Block 22 (2) (7 Storey)	99 days	04-10-22	01-02-23	
1019		Builder's Works within Lift Shafts	7 days	04-10-22	11-10-22	261FS+10 days
1020		Lift Shafts Handover	0 days	11-10-22	11-10-22	1019
1021		Lift Installation Upon lift shaft handing over	50 days	12-10-22	09-12-22	1020
1022		Lift Testing & Commissioning	21 days	10-12-22	05-01-23	1021
1023		Lifts Interior Finishes by Lift Contractor	21 days	06-01-23	01-02-23	1022
1024		Lift Installation Readiness	0 days	01-02-23	01-02-23	1023
1025		Block 16 (5) (8 Storey)	89 days	20-03-23	06-07-23	
1026		Builder's Works within Lift Shafts	7 days	20-03-23	27-03-23	272FS+10 days
1027		Lift Shafts Handover	0 days	27-03-23	27-03-23	1026
1028		Lift Installation Upon lift shaft handing over	40 days	28-03-23	17-05-23	1027
1029		Lift Testing & Commissioning	21 days	18-05-23	10-06-23	1028
1030		Lifts Interior Finishes by Lift Contractor	21 days	12-06-23	06-07-23	1029
1031		Lift Installation Readiness	0 days	06-07-23	06-07-23	1030
1032		Block 20 (1) (5 Storey)	89 days	26-04-23	11-08-23	
1033		Builder's Works within Lift Shafts	7 days	26-04-23	04-05-23	284FS+10 days
1034		Lift Shafts Handover	0 days	04-05-23	04-05-23	1033
1035		Lift Installation Upon lift shaft handing over	40 days	06-05-23	21-06-23	1034
1036		Lift Testing & Commissioning	21 days	22-06-23	17-07-23	1035
1037		Lifts Interior Finishes by Lift Contractor	21 days	18-07-23	11-08-23	1036
1038		Lift Installation Readiness	0 days	11-08-23	11-08-23	1037
1039		Block 2 (4) (2 Storey)	89 days	14-10-22	31-01-23	
1040		Builder's Works within Lift Shafts	7 days	14-10-22	21-10-22	293FS+10 days
1041		Lift Shafts Handover	0 days	21-10-22	21-10-22	1040
1042		Lift Installation Upon lift shaft handing over	40 days	22-10-22	08-12-22	1041
1043		Lift Testing & Commissioning	21 days	09-12-22	04-01-23	1042
1044		Lifts Interior Finishes by Lift Contractor	21 days	05-01-23	31-01-23	1043
1045		Lift Installation Readiness	0 days	31-01-23	31-01-23	1044
1046		Block 18 (3) (3 Storey)	89 days	21-06-23	04-10-23	
1047		Builder's Works within Lift Shafts	7 days	21-06-23	29-06-23	299FS+10 days
1048		Lift Shafts Handover	0 days	29-06-23	29-06-23	1047
1049		Lift Installation Upon lift shaft handing over	40 days	30-06-23	16-08-23	1048
1050		Lift Testing & Commissioning	21 days	17-08-23	09-09-23	1049
1051		Lifts Interior Finishes by Lift Contractor	21 days	11-09-23	04-10-23	1050
1052		Lift Installation Readiness	0 days	04-10-23	04-10-23	1051
1053		Block 12 (9) (8 Storey)	89 days	18-10-22	03-02-23	
1054		Builder's Works within Lift Shafts	7 days	18-10-22	26-10-22	306FS+10 days
1055		Lift Shafts Handover	0 days	26-10-22	26-10-22	1054
1056		Lift Installation Upon lift shaft handing over	40 days	27-10-22	12-12-22	1055
1057		Lift Testing & Commissioning	21 days	13-12-22	07-01-23	1056
1058		Lifts Interior Finishes by Lift Contractor	21 days	09-01-23	03-02-23	1057
1059		Lift Installation Readiness	0 days	03-02-23	03-02-23	1058
1060		Block 10 (10) (10 Storey)	90 days	06-02-23	25-05-23	



Proj: Master Programme_The Reef at King's Dock
Proj Reference: MP/RKD/02/21
Date: 06 April 2021

Task | Summary | Inactive Milestone | Duration-only | Start-only | External Milestone | Critical Split
Split | Project Summary | Inactive Summary | Manual Summary Rollup | Finish-only | Deadline | Progress
Milestone | Inactive Task | Manual Task | Manual Summary | External Tasks | Critical | Manual Progress

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
1061		Builder's Works within Lift Shafts	7 days	06-02-23	13-02-23	318FS+10 days
1062		Lift Shafts Handover	0 days	13-02-23	13-02-23	1061
1063		Lift Installation Upon lift shaft handing over	40 days	14-02-23	31-03-23	1062
1064		Lift Testing & Commissioning	21 days	01-04-23	28-04-23	1063
1065		Lifts Interior Finishes by Lift Contractor	21 days	29-04-23	25-05-23	1064
1066		Lift Installation Readiness	0 days	25-05-23	25-05-23	1065
1067		Block 8 (8) (2 Storey)	89 days	23-09-22	07-01-23	
1068		Builder's Works within Lift Shafts	7 days	23-09-22	30-09-22	332FS+10 days
1069		Lift Shafts Handover	0 days	30-09-22	30-09-22	1068
1070		Lift Installation Upon lift shaft handing over	40 days	01-10-22	17-11-22	1069
1071		Lift Testing & Commissioning	21 days	18-11-22	12-12-22	1070
1072		Lifts Interior Finishes by Lift Contractor	21 days	13-12-22	07-01-23	1071
1073		Lift Installation Readiness	0 days	07-01-23	07-01-23	1072
1074		Block 6 (6) (8 Storey)	89 days	30-03-23	17-07-23	
1075		Builder's Works within Lift Shafts	7 days	30-03-23	06-04-23	338FS+10 days
1076		Lift Shafts Handover	0 days	06-04-23	06-04-23	1075
1077		Lift Installation Upon lift shaft handing over	40 days	08-04-23	27-05-23	1076
1078		Lift Testing & Commissioning	21 days	29-05-23	21-06-23	1077
1079		Lifts Interior Finishes by Lift Contractor	21 days	22-06-23	17-07-23	1078
1080		Lift Installation Readiness	0 days	17-07-23	17-07-23	1079
1081		Block 14 (7) (3 Storey)	89 days	21-03-23	07-07-23	
1082		Builder's Works within Lift Shafts	7 days	21-03-23	28-03-23	350FS+10 days
1083		Lift Shafts Handover	0 days	28-03-23	28-03-23	1082
1084		Lift Installation Upon lift shaft handing over	40 days	29-03-23	18-05-23	1083
1085		Lift Testing & Commissioning	21 days	19-05-23	12-06-23	1084
1086		Lifts Interior Finishes by Lift Contractor	21 days	13-06-23	07-07-23	1085
1087		Lift Installation Readiness	0 days	07-07-23	07-07-23	1086
1088		Common Area lift installation	63 days	25-08-23	06-11-23	
1089		Builder's Works within Lift Shafts	7 days	25-08-23	01-09-23	991SS+14 days
1090		Lift Shafts Handover	0 days	01-09-23	01-09-23	1089
1091		Lift Installation Upon lift shaft handing over	21 days	02-09-23	26-09-23	1090
1092		Lift Testing & Commissioning	21 days	27-09-23	20-10-23	1091
1093		Lifts Interior Finishes by Lift Contractor	14 days	21-10-23	06-11-23	1092
1094		Lift Installation Readiness	0 days	06-11-23	06-11-23	1093
1095						
1096		HS/SS Shelter Preparation / Inspection	309 days	10-01-23	17-01-24	
1097		Zone A	291 days	02-02-23	17-01-24	
1098		Block 22 (2) (7 Storey)	84 days	06-02-23	18-05-23	504FS-60 days
1099		Architectural Finishes / M&E Works / Signages	70 days	06-02-23	29-04-23	504FS-60 days
1100		SS Commissioning Inspections	14 days	02-05-23	18-05-23	1099
1101		Block 16 (5) (8 Storey)	84 days	14-07-23	20-10-23	537FS-60 days
1102		Architectural Finishes / M&E Works / Signages	70 days	14-07-23	04-10-23	537FS-60 days
1103		SS Commissioning Inspections	14 days	05-10-23	20-10-23	1102
1104		Block 20 (1) (5 Storey)	84 days	07-08-23	14-11-23	570FS-60 days
1105		Architectural Finishes / M&E Works / Signages	70 days	07-08-23	27-10-23	570FS-60 days
1106		SS Commissioning Inspections	14 days	28-10-23	14-11-23	1105
1107		Block 2 (4) (2 Storey)	84 days	02-02-23	15-05-23	603FS-60 days
1108		Architectural Finishes / M&E Works / Signages	70 days	02-02-23	26-04-23	603FS-60 days
1109		HS Commissioning Inspections	14 days	27-04-23	15-05-23	1108
1110		Block 18 (3) (3 Storey)	84 days	09-10-23	17-01-24	636FS-60 days
1111		Architectural Finishes / M&E Works / Signages	70 days	09-10-23	30-12-23	636FS-60 days
1112		HS Commissioning Inspections	14 days	02-01-24	17-01-24	1111
1113		Zone B	247 days	10-01-23	02-11-23	
1114		Block 12 (9) (8 Storey)	84 days	11-02-23	24-05-23	670FS-60 days
1115		Architectural Finishes / M&E Works / Signages	70 days	11-02-23	08-05-23	670FS-60 days
1116		SS Commissioning Inspections	14 days	09-05-23	24-05-23	1115
1117		Block 10 (10) (10 Storey)	84 days	13-06-23	20-09-23	703FS-60 days
1118		Architectural Finishes / M&E Works / Signages	70 days	13-06-23	04-09-23	703FS-60 days
1119		SS Commissioning Inspections	14 days	05-09-23	20-09-23	1118
1120		Block 8 (8) (2 Storey)	84 days	10-01-23	20-04-23	736FS-60 days
1121		Architectural Finishes / M&E Works / Signages	70 days	10-01-23	03-04-23	736FS-60 days
1122		HS Commissioning Inspections	14 days	04-04-23	20-04-23	1121
1123		Block 6 (6) (8 Storey)	84 days	25-07-23	31-10-23	769FS-60 days



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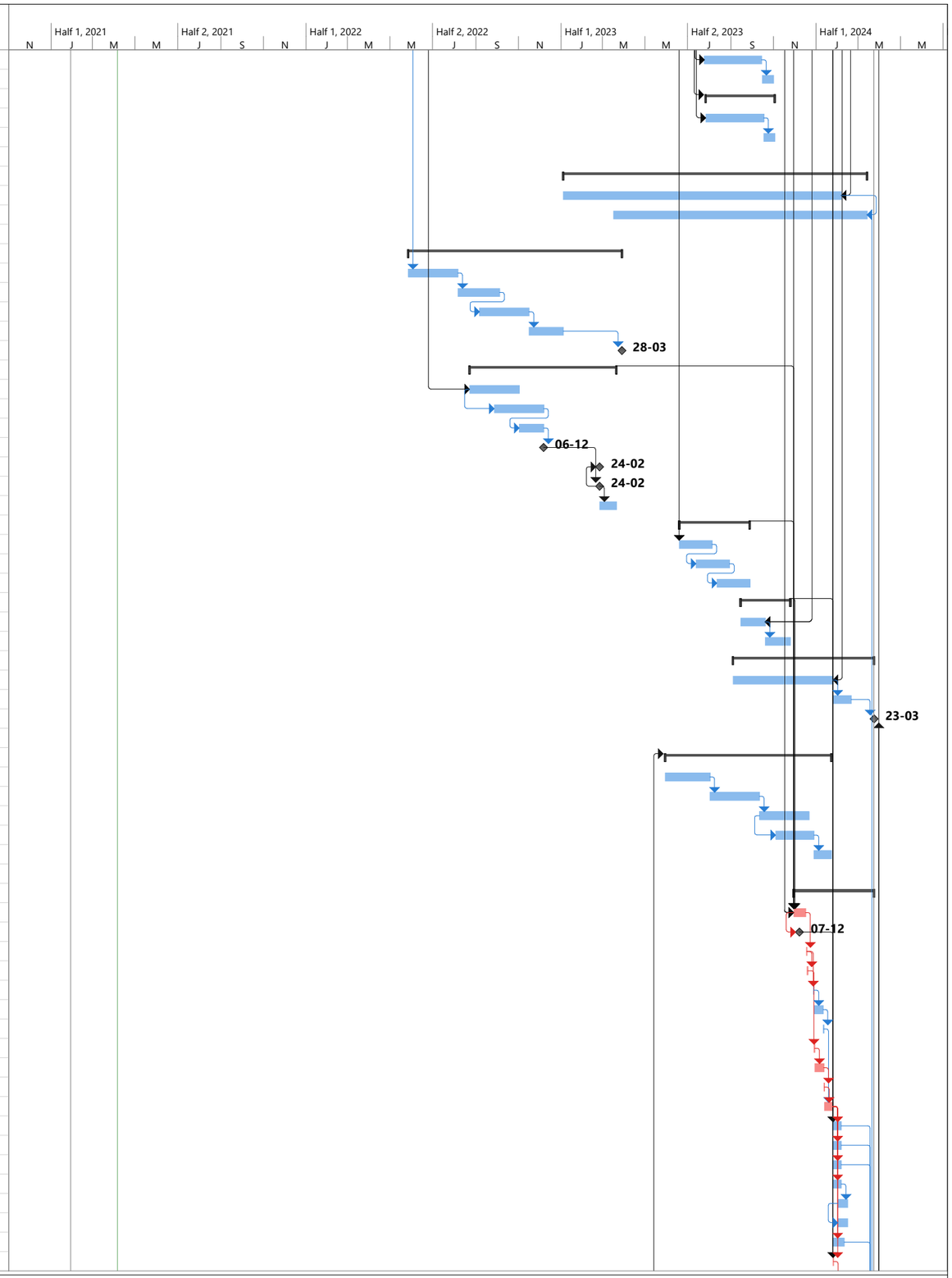
Proj Reference: MP/RKD/02/21
Date: 06 April 2021

Task
Split
Milestone
Summary
Project Summary
Inactive Task
Inactive Milestone
Inactive Summary
Manual Task
Duration-only
Manual Summary Rollup
Manual Summary
Start-only
Finish-only
External Tasks
External Milestone
Deadline
Critical
Critical Split
Progress
Manual Progress

ID	Task Mod	Task Name	Duration	Start	Finish	Predecessors
1124		Architectural Finishes / M&E Works / Signages	70 days	25-07-23	14-10-23	769FS-60 days
1125		SS Commissioning Inspections	14 days	16-10-23	31-10-23	1124
1126		Block 14 (7) (3 Storey)	84 days	27-07-23	02-11-23	802FS-60 days
1127		Architectural Finishes / M&E Works / Signages	70 days	27-07-23	17-10-23	802FS-60 days
1128		HS Commissioning Inspections	14 days	18-10-23	02-11-23	1127
1129						
1130		QM & CFU Inspection Schedule	360 days	04-01-23	13-03-24	
1131		QM Inspection	330 days	04-01-23	05-02-24	502FF+40 days
1132		CFU Inspection & Handover	300 days	17-03-23	13-03-24	1131FF+30 days
1133						
1134		Substation	255 days	27-05-22	28-03-23	
1135		Structural Works	60 days	27-05-22	05-08-22	320
1136		Architectural Works	50 days	06-08-22	04-10-22	1135
1137		M&E Works	60 days	06-09-22	15-11-22	1136FS-25 days
1138		Substation Handover to PG	40 days	16-11-22	03-01-23	1137
1139		Permanent Power Turn-On	0 days	28-03-23	28-03-23	1138FS+70 days
1140		Starhub / SCV / OpenNet Finishes (Telco)	175 days	23-08-22	20-03-23	
1141		MDF Rooms Architectural Finishes	60 days	23-08-22	01-11-22	856SS+40 days
1142		MDF Rooms M&E Works	60 days	27-09-22	06-12-22	1141SS+30 days
1143		MDF Room Handover	30 days	02-11-22	06-12-22	1142FS-30 days
1144		TAS / SCV Riser Handover	0 days	06-12-22	06-12-22	1143
1145		MDS Space handing over	0 days	24-02-23	24-02-23	1146SS
1146		Inspection by Starhub / OpenNet	0 days	24-02-23	24-02-23	1144FS+65 days
1147		Cable Readiness Approval by Starhub / OpenNet	20 days	25-02-23	20-03-23	1146
1148		SP Services	85 days	19-06-23	27-09-23	
1149		Sample unit testing by SP	40 days	19-06-23	04-08-23	504FS+50 days
1150		Unit Meter Installation	40 days	13-07-23	29-08-23	1149FS-20 days
1151		100% Unit Testing	40 days	12-08-23	27-09-23	1150FS-15 days
1152		Water Supply	60 days	15-09-23	24-11-23	
1153		PUB Water Service Inspection	30 days	15-09-23	19-10-23	502FF-50 days,856FF-100 days
1154		Water Turn-On	30 days	20-10-23	24-11-23	1153
1155		Gas Supply	169 days	04-09-23	23-03-24	
1156		City Gas Inspection	120 days	04-09-23	24-01-24	502FF+30 days
1157		City Gas Clearance	20 days	25-01-24	19-02-24	1156
1158		City Gas Charge-in	0 days	23-03-24	23-03-24	1189,1157
1159						
1160		**Showflat demolition**	**199 days**	**30-05-23**	**22-01-24**	**1189FS-250 days**
1161		Submission and Approval for Demolition works	54 days	30-05-23	01-08-23	
1162		Demolition work	60 days	02-08-23	11-10-23	1161
1163		Construction of Boundary Fence and Softscape	60 days	12-10-23	21-12-23	1162
1164		M&E works / Underground services	45 days	04-11-23	28-12-23	1163SS+20 days
1165		Testing & Comissioning	20 days	29-12-23	22-01-24	1164
1166						
1167		TEMPORARY OCCUPATION PERMIT	95 days	30-11-23	23-03-24	
1168		M&E Final T&C for Common Areas	15 days	30-11-23	16-12-23	856FS-75 days,1017,1140,1152,502FS-16 days,1148
1169		NEA Inspection	0 days	07-12-23	07-12-23	1168SS+7 days
1170		M&E Pre-RI Inspection	1 day	18-12-23	18-12-23	1168
1171		Architectural Pre-RI Inspection	1 day	19-12-23	19-12-23	1170
1172		M&E RI Inspection	1 day	28-12-23	28-12-23	1170FS+7 days
1173		M&E RI Rectification works	10 days	29-12-23	10-01-24	1172
1174		M&E RI Final Inspection	1 day	11-01-24	11-01-24	1173
1175		Architectural RI Inspection	1 day	29-12-23	29-12-23	1171FS+7 days
1176		Architectural RI Rectification Works	10 days	30-12-23	11-01-24	1175
1177		Architectural RI Final Inspection	1 day	12-01-24	12-01-24	1176
1178		TFP application and approval	10 days	13-01-24	24-01-24	1177,1174
1179		CPBU Clearance	10 days	25-01-24	05-02-24	1152,1169,1178
1180		Drainage Clearance	10 days	25-01-24	05-02-24	1178
1181		ENV Sewerage Inspection / Environmental Health	10 days	25-01-24	05-02-24	1178
1182		Nparks Clearance	10 days	25-01-24	05-02-24	1178
1183		LTA (Vehicle Parking) Clearance	10 days	01-02-24	14-02-24	1182FS-4 days
1184		Letter Box inspection (Singpost)	10 days	01-02-24	14-02-24	1183SS
1185		ER's site site inspection	14 days	25-01-24	09-02-24	1178
1186		BCA TOP Inspection	1 day	25-01-24	25-01-24	1178,856,857



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Manual Summary
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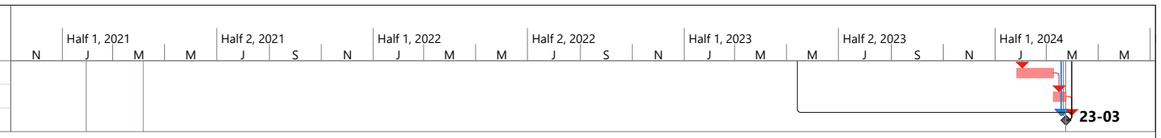
External Tasks
External Milestone
Deadline
Critical
Critical Split
Progress
Manual Progress

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
1187		BCA TOP - Rectification works	35 days	26-01-24	08-03-24	1186
1188		TOP lodgement and approval	13 days	09-03-24	23-03-24	1187
1189		TOP Certificate obtained	0 days	23-03-24	23-03-24	1188,1132,1179,1180,1181,1185



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Task | Summary | Inactive Milestone | Duration-only | Start-only | External Milestone | Critical Split
Split | Project Summary | Inactive Summary | Manual Summary Rollup | Finish-only | Deadline | Progress
Milestone | Inactive Task | Manual Task | Manual Summary | External Tasks | Critical | Manual Progress

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	4 Sep 2018	4 Sep 2018	13 Sep 2018	13 Sep 2018	19 Sep 2018				19 Sep 2018
Power Supply Substation	SP PowerGrid Ltd	30 Nov 2020	15 Oct 2020	16 Oct 2020	29 Oct 2020	5 Feb 2021 30 Jun 2021	15 Jun 2021 14 Jul 2021	29 Jul 2021	13 Aug 2021	13 Aug 2021
Metering Layout	SP Services Ltd	-								
Sanitary Installation	PUB Water Reclamation (Network) Dept	31 Jan 2022	7 Nov 22							8 Nov 22
Domestic Water Supply	PUB (Water Supply) Network Dept	30 Nov 2021	31 Mar 2022	13 & 16 Jun 2022	21 Jul 2022					28 Sep 2022
Gas Supply Installation	City Gas Pte Ltd	29 Dec 2021	21 Jul 2022	28 Jul 2022	14 Sept 22					17 Oct 22
Air Conditioning & Ventilation Inst.	FSSD	Nov 2023	5 Dec 23							
Fire Fighting & Alarm Installation	FSSD	Dec 2023								
Telephone Installation	TFCC	29 Oct 2021	27 Oct 2021	2 Nov 2021	22 Nov 2021					10 Dec 2021
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

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				1 Aug 2022 19 Aug 2022					16 Aug 2022
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	16 Sep 2022	16 Sep 2022							
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:	
MC/EC	✓				

(✓*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	Softcopy saved in the server
Incoming Architectural Sketches/Details	
Incoming Structural Drawings	
M&E Drawings - Electrical Installation - Lift & Escalator Installation - Air Conditioning & Ventilation Installation - Fire Fighting & Alarm Installation - Plumbing & Sanitary Installation - Swimming Pool & Filtration Installation	
Other Drawings - Landscape Drawings - FSSD Approval Building Plan	

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 APPLICABLE

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	I	I	-	-	
b.	Project Administration						
c.	Project Cost Estimate/Contract Cost	A	I	I	-	I	
2.	**Drawings**						
a.	Outline Design Drgs.	A	I	C	I	I	
b.	Sketch Design Drgs.	A	I	C	I	I	
c.	Final Design Drgs.	A	I	C	I	I	
d.	Shop Drawings	I	I	A	-	-	
e.	As Built Drgs.	I	I	I	-	-	
3.	**Other Document**						
a.	Specification	A	I	I	I	I	
b.	Tender Document	A	I	I	I	I	
c.	Tender Evaluation Report	A	I	I	I	I	
d.	Design Report	A	I	I	-	-	
e.	Progress Report	-	-	-	-	-	
f.	Financial Report	-	-	-	-	-	
g.	Minutes of Meeting	A	I	I	-	-	
h.	Inspection Report	I	I	I	-	-	
i.	Testing & Comm. Report	I	I	I	-	-	
j.	O & M Manual	I	I	I	-	-	

*Note: Applicable only, if the client engaged a Project Manager.

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 APPLICABLE

ITEM	KEPT BY

8.2 List of Applicable Code of Practice and Regulations

Services	Title of Code of Practice/Standard
Electrical Wiring	SS 638 (formerly CP 5)
Lightning Protection System	SS 555 : 2018
Emergency Voice Communication System	–
Air Conditioning & Ventilation Installation	SS 553 : 2016
Lift & Escalator Installation	SS 550 : 2009
Sprinkler System	SS CP 52 : 2004
Dry/~~Wet~~ Riser System	SS 575 : 2012
Automatic Fire Alarm System	SS CP 10 : 2005
Sanitary System	Code of Practice on Sewerage & Sanitary Works
Plumbing System	SS 636 : 2018
Town Gas/LPG Supply System	SS 608 : 2015
Boiler and Steam Supply System	–
Mechanical Smoke Control System	–

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 Pre-Consultation and Waiver

S/N	Description	Date of Application	Date of Approval	Remarks
1	*Clause 2.2.13(b) of Fire Code 2013 which require clarification or waiver. Consultation Ref No. Waiver Ref. No. WVR/03228/19	15 November 2019	18 December 2019	
2	*Clause 3.7.7 of Fire Code 2013 which require clarification or waiver. Consultation Ref No. Waiver Ref. No. WVR/02770/20	16 October 2020	14 December 2020	
3	*Table 4.4A of Amendments to Fire Code 2018 – 7th Batch of Amendments Issued 1 Dec 2020 which require clarification or waiver. Consultation Ref No. Waiver Ref. No. WVR/00067/21	8 January 2021	3 February 2021	
4	*Clause 3.2.5(o) of Fire Code 2013 which require clarification or waiver. Consultation Ref No. Waiver Ref. No. WVR/01181/21	17 April 2021	3 May 2021	

8.4 List of Pre-Consultation and Waiver (Cont'd)

S/N	Description	Date of Application	Date of Approval	Remarks
5	*Clause 4.2(f) of Fire Code 2013 which require clarification or waiver. Consultation Ref No. Waiver Ref. No. A17/1/3/W6088 SUB2021032197	19 May 2021	25 June 2021	
6	*Clause 7.4.1(b) of Fire Code 2013 which require clarification or waiver. Consultation Ref No. Waiver Ref. No. WVR/03892/21	22 December 2021	23 December 2021	
7	*Clause 7.4.1(b) & 3.9.6(b) of Fire Code 2013 which require clarification or waiver. Consultation Ref No. Waiver Ref. No. WVR/01073/22	23 April 2022	10 May 2022	
8	*Clause 6.4.3(b) of Fire Code 2013 which require clarification or waiver. Consultation Ref No. Waiver Ref. No. WVR/01246/22	13 May 2022	20 May 2022	
9	*Clause 3.7.7 of Fire Code 2013 which require clarification of waiver. Consultation Ref No. Waiver Ref. No. WVR/02592/22	20 September 2022	23 September 2022	
10	*Clause 6.6.4 of Fire Code 2013 which require clarification of waiver. Consultation Ref No. Waiver Ref. No. WVR/01574/23	22 June 2023	11 July 2023	

*To fill in actual information

8.5 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	
S13	Non-Conformity and Corrective Action Procedures	✓
S14	Quality & Environmental System Audit	✓
S15	Feedback Reporting	✓
S16	Clients Feedback	✓
S17	Management Review	✓
S18	Risk Identification, Assessment & Control	✓

8.6 List of Software Used For Design/Analysis

DESCRIPTION/ PACKAGE NAME	VERSION	SUPPLIER/ SOURCE	PURPOSE	
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	
Hyena	4.00.1	ACADS-BSG	Fire Sprinkler & Hydrant Analysis	
Dialux	4.11	Freeware	Lighting design	✓
Lift Traffic	7.18	Elevate	Lift traffic calculation	✓
Fault Level Calculation	11.11	ETAP	Calculation of fault level and voltage drop	✓

(✓*where applicable*)

SECTION 9

ENVIRONMENTAL CONSIDERATIONS

9.1 Sustainable Design Features / Criteria

Item	Remarks
Green Mark criteria	Gold Plus
Green Design Features	Refer to attached list

9.2 Site PPE Requirement – NOT APPLICABLE

The necessary Personal Protective Equipment (detailed below) shall be provided by the main contractor/Company in accordance with 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 – NOT APPLICABLE

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	

LIST OF GREEN DESIGN FEATURE

1. Energy label with five ticks rating (excellent) for air-cooled multi-split units and two ticks rating (excellent) or with the following COP range as registered with NEA are used in all apartment units and common areas (such as lift lobbies in the basement and 1st storey, gym room, function room, management office, guardhouse and MDF room):

   - COP100% 3.34

   - Weighted COP 3.76

2. Variable frequency variable voltage (VVVF) drive and gearless lifts with lights and fans in the lift cars switched off when there is no hall call after a predetermined time delay. Provision of regenerative lifts

3. T5 lamps are used at car park areas and M&E plantrooms. T5 with integrated motion sensor are used at staircase. Energy efficient LED are used in gym room, function room, management office, guardhouse, landscape, swimming pools and water features.

4. Fresh air fans are provided to 2-storey Basement car-parks except certain areas of Basement are provided with 2.5% openings for natural intake and CO sensors to control ductless exhaust system for the 2-storey Basement Car Park.

5. Automatic flushing cistern for the handicapped toilet. Dual flush cistern for WC and all basin, sink & shower mixer taps in apartment unit toilets and clubhouse changing rooms/toilets are either very good or excellent MWELS certified.

6. Eco-plug is provided to each apartment units.

7. Electric Vehicle Charging Stations

8. 2 ticks for water efficient fittings

9. Private sub-meters to common usage

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	A
M&E Cost Estimate Report	A
Pre-Qualification of Tenderers	A
Tender Documents	A
Tender Report	A
Payment Valuation for QS	A
Certificates of Supervision for TOP/CSC	I

* *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 APPLICABLE

SECTION 11

LIST OF SUB-JOB

11.1 List of Sub-Job Numbers – NOT APPLICABLE

Sub Job No	Description	Allocation Details