

CALCULATION FOR IBS SCORE

For office use
Project Registration No:
Project Category:

Project Name: CADANGAN MENAIKTARAF KAMPUS AKADEMI BINAAN MALAYSIA (ABM) WILAYAH SELATAN, JOHOR DIATAS LOT 183207, KOMPLEKS CIDB NEGERI JOHOR, JALAN TAMPOI, MUKIM TEBRAU, JOHOR BHARU, JOHOR DARUL TA'ZIM UNTUK LEMBAGA PEMBANGUNAN INDUSTRI PEMBINAAN MALAYSIA (CIDB)	Contract Value:
Contractor Name: WS NETWORK TECHNOLOGIES SDN BHD No 8-36-1 Jalan Aman Damai J U17/J, Aman Putri Section U17, 40160 Shah Alam, Selangor Darul Ehsan Tel/Fax : 03-60396177	Developer / Owner Name: LEMBAGA PEMBANGUNAN INDUSTRI PEMBINAAN MALAYSIA (CIDB) Tingkat 10, Menara Dato' Onn, Pusat Dagangan Dunia, No. 45, Jalan Tun Ismail, 50480 Kuala Lumpur
Architecture Consultant RAZIN ARCHITECTS SDN BHD 12, Jalan Denai 10, Kempas Baru, 81200 Johor Bahru, Johor	Civil/Structure Engineer Consultant Name: OMNI PROJECT CONSULTANCY SDN BHD 4A, Jalan Pulai Perdana 12, Taman Sri Pulai Perdana, 81300 Johor Bahru, Johor
List of Submitted Drawings	
1) OPC2017/08/H-01	6) OPC2017/08/H-06
2) OPC2017/08/H-02	7) _____
3) OPC2017/08/H-03	8) _____
4) OPC2017/08/H-04	9) _____
5) OPC2017/08/H-05	10) _____

We hereby declare that the information given and the IBS Score submitted herewith is true and complete.

The total **IBS Score** for the proposed building / project is 76.83

Date: 3/4/2024

Name & Signature of Qualified Person

Designation:

Reg No. (Arch/PE): _____

CALCULATIONS OF OVERALL IBS SCORE

PROJECT DETAILS

CADANGAN MENAIKTARAF KAMPUS AKADEMI BINAAN MALAYSIA (ABM) WILAYAH SELATAN, JOHOR DIATAS
 Project Name : LOT 183207, KOMPLEKS CIDB NEGERI JOHOR, JALAN TAMPOI, MUKIM TEBRAU, JOHOR BHARU, JOHOR DARUL
 TA'ZIM UNTUK LEMBAGA PEMBANGUNAN INDUSTRI PEMBINAAN MALAYSIA (CIDB)

Type/Block No : HOSTEL Total no of Units/blocks: 1

Contract
Value: _____

Category of Building

☐ Residential (landed)
 ☐ Industrial
 ☐ Commercial
☐ Residential (high rise)
 ☐ Institutional
 ☐ Others HOSTEL

For mixed development, please indicate the area of the category:

Residential (landed) _____ m²
 Industrial _____ m²
 Residential (high rise) _____ m²
 Institutional _____ m²
 Commercial _____ m²
 Others 10143.62 m²

CALCULATION OF IBS SCORE

ELEMENTS	AREA (m ²) (a)	IBS FACTOR	COVERAGE %	IBS CONTENT SCORE
PART 1: STRUCTURAL SYSTEM				
1.1 FLOOR = PRECAST CONCRETE SLAB				
a) Precast columns and beams	4876.26	1.0	48.07	24.04
b) Precast columns and in-situ beams using reusable formwork		0.8		
c) Precast columns and in-situ beams using timber formwork		0.7		
d) Precast beams and in-situ columns using reusable formwork		0.8		
e) Precast beams and in-situ column using timber formwork		0.7		

f) In-situ column and beams using reusable system formwork		0.6		
g) In-situ column and beams using timber formwork		0.5		
h) Metal columns and beams		1.0		
i) Timber column and beam		1.0		
j) Load bearing blocks		0.8		
k) Metal framing with permanent formwork		0.7		
ELEMENTS	AREA (m ²) (a)	IBS FACTOR	COVERAGE %	IBS CONTENT SCORE
1.2 FLOOR = IN-SITU CONCRETE ON PERMANENT FORMWORK				
a) Precast columns and beams		0.8		
b) Precast columns and in-situ beams using reusable formwork		0.7		
c) Precast columns and in-situ beams using timber formwork		0.6		
d) Precast beams and in-situ columns using reusable formwork		0.7		
e) Precast beams and in-situ column using timber formwork		0.6		
f) In-situ column and beams using reusable system formwork		0.5		
g) In-situ column and beams using timber formwork		0.4		
h) Metal columns and beams		0.8		
i) Timber column and beam		0.8		
j) Load bearing blocks		0.7		
k) Metal framing with permanent formwork		0.6		

ELEMENTS	AREA (m ²) (a)	IBS FACTOR	COVERAGE %	IBS CONTENT SCORE
1.3 FLOOR = IN-SITU CONCRETE USING REUSABLE FORMWORK				
a) Precast columns and beams		0.6		
b) Precast columns and in-situ beams using reusable formwork		0.5		
c) Precast columns and in-situ beams using timber formwork		0.4		
d) Precast beams and in-situ columns using reusable formwork		0.5		
e) Precast beams and in-situ column using timber formwork		0.4		
f) In-situ column and beams using reusable system formwork		0.4		
g) In-situ column and beams using timber formwork		0.2		
h) Metal columns and beams		0.6		
i) Timber column and beam		0.6		
j) Load bearing blocks		0.5		
k) Metal framing with permanent formwork		0.4		
ELEMENTS	AREA (m ²) (a)	IBS FACTOR	COVERAGE %	IBS CONTENT SCORE
1.4 FLOOR = IN-SITU CONCRETE USING TIMBER FORMWORK				
a) Precast columns and beams	1777.48	0.5	17.52	4.38
b) Precast columns and in-situ beams using reusable formwork		0.4		
c) Precast columns and in-situ beams using timber formwork		0.3		
d) Precast beams and in-situ columns using reusable formwork		0.4		

e) Precast beams and in-situ column using timber formwork		0.3		
f) In-situ column and beams using reusable system formwork		0.2		
g) In-situ column and beams using timber formwork	1379.11	0.0	13.60	0.00
h) Metal columns and beams	690.49	0.5	6.81	1.70
i) Timber column and beam		0.5		
j) Load bearing blocks		0.4		
k) Metal framing with permanent formwork		0.3		
ELEMENTS	AREA (m ²) (a)	IBS FACTOR	COVERAGE %	IBS CONTENT SCORE
1.5 FLOOR = STEEL FLORING SYSTEM				
a) Precast columns and beams		1.0		
b) Precast columns and in-situ beams using reusable formwork		0.8		
c) Precast columns and in-situ beams using timber formwork		0.7		
d) Precast beams and in-situ columns using reusable formwork		0.8		
e) Precast beams and in-situ column using timber formwork		0.7		
f) In-situ column and beams using reusable system formwork		0.6		
g) In-situ column and beams using timber formwork		0.5		
h) Metal columns and beams		1.0		
i) Timber column and beam		1.0		
j) Load bearing blocks		0.8		
k) Metal framing with permanent formwork		0.7		

ELEMENTS	AREA (m ²) (a)	IBS FACTOR	COVERAGE %	IBS CONTENT SCORE
1.6 FLOOR = TIMBER FRAME FLOORING SYSTEM				
a) Precast columns and beams		1.0		
b) Precast columns and in-situ beams using reusable formwork		0.8		
c) Precast columns and in-situ beams using timber formwork		0.7		
d) Precast beams and in-situ columns using reusable formwork		0.8		
e) Precast beams and in-situ column using timber formwork		0.7		
f) In-situ column and beams using reusable system formwork		0.6		
g) In-situ column and beams using timber formwork		0.5		
h) Metal columns and beams		1.0		
i) Timber column and beam		1.0		
j) Load bearing blocks		0.8		
k) Metal framing with permanent formwork		0.7		
ELEMENTS	AREA (m ²) (a)	IBS FACTOR	COVERAGE %	IBS CONTENT SCORE
1.7 FLOOR = NO SLAB				
a) Precast columns and beams		1.0		
b) Precast columns and in-situ beams using reusable formwork		0.8		
c) Precast columns and in-situ beams using timber formwork		0.7		
d) Precast beams and in-situ columns using reusable formwork		0.8		
e) Precast beams and in-situ column using timber formwork		0.7		

f) In-situ column and beams using reusable system formwork		0.6		
g) In-situ column and beams using timber formwork		0.5		
h) Metal columns and beams		1.0		
i) Timber column and beam		1.0		
j) Load bearing blocks		0.8		
k) Metal framing with permanent formwork		0.7		
ELEMENTS	AREA (m ²)	IBS FACTOR	COVERAGE %	IBS CONTENT SCORE
2.0 ROOF SYSTEM				
a) Prefab timber roof trusses		1.0		
b) Prefab metal roof trusses	1420.29	1.0	14.00	7.00
c) Conventional timber roof trusses		0.0		
TOTAL AREA	10143.62		100%	
Sub-total for structural system (maximum 50 points) (A)				37.12

ELEMENTS	LENGTH (m)	IBS FACTOR	COVERAGE %	IBS CONTENT SCORE
PART 2: WALL SYSTEM				
a) Precast concrete panels		1.0		
b) Wall cladding		1.0		
c) Prefabricated timber panels		1.0		
d) Full height glass panels		1.0		
e) Drywall systems		1.0		
f) In-situ concrete with reusable system formwork	415	0.4	14.50	1.16
g) In-situ concrete with permanent formwork		0.7		
h) Blockwork systems	2446.36	0.5	85.50	8.55
i) Common brickwalls		0.0		
j) In-situ concrete with timber formwork		0.0		
TOTAL AREA			100%	
Sub-total for wall system (maximum 20 points) (B)				9.71

ELEMENTS	UNIT	IBS SCORE PERCENTAGE USAGE		% USAGE OF THIS PROJECT	IBS SCORE
		50%≤ X < 75%	75%≤ X ≤100		
PART 3: OTHER SIMPLIFIED CONSTRUCTION SOLUTIONS					
1.0 Utilisation of standardized components based on MS1064					
a) Beams	Nos	2	4	80	4
b) Columns	Nos	2	4	80	4
c) Walls	m	2	4	85	4
d) Slabs	m²	2	4	75	4
e) Doors	Nos	2	4	75	4
f) Windows	Nos	2	4	75	4
2.0 Repetition of structural layouts					
a) For building more than 2 storeys					
i. Repetition of floor to floor height	Nos	1	2	75	2
ii. Vertical repetition of structural floor layout	Nos	1	2	75	2
iii. Horizontal repetition of structural floor layout	Nos	1	2	75	2
b) For building 1 or 2 storeys					
iv. Horizontal repetition of structural floor layout	Nos	3	6		
3.0 Other productivity enhancing solutions					
a) Usage of prefab bathroom units (PBU)	Nos	1	2		
b) Usage of prefab staircase	Nos	1	2		

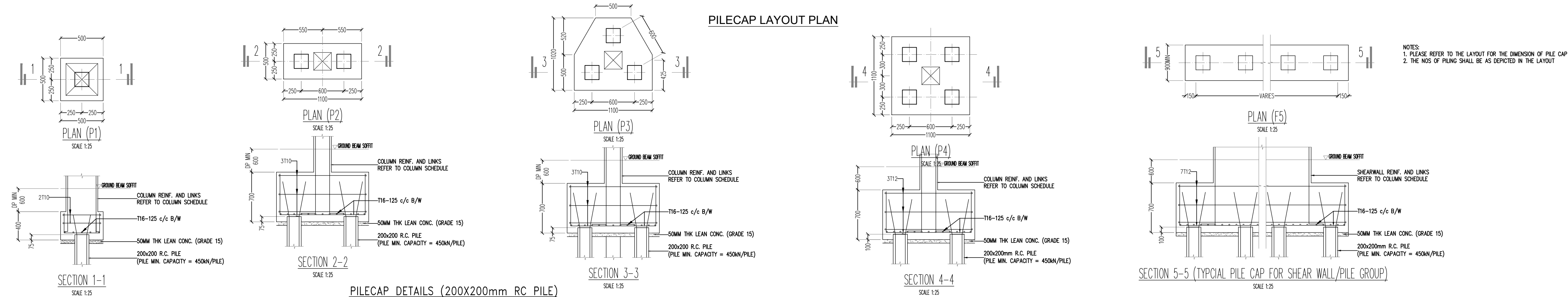
c) Usage of BIM models for IBS Score submission	Level 1	3		
	Level 2	6	LEVEL 2	6
d) Usage of Modular gridlines in drawings	Nos	4 (for $\geq 50\%$ usage)		
Sub-total for other simplified construction solutions (maximum 30 points) (C)				30
TOTAL (maximum 100 points) (A + B + C)				76.83

SUMMARY SHEET (Multiple Building Project)				
BLOCK NAME	AREA (m²)	COVERAGE AREA (%)	IBS SCORE BUILDING	IBS SCORE OF PROJECT
ABMJ HOSTEL	10143.62	100	76.83	76.83
TOTAL				

TOTAL IBS SCORE FOR THIS PROJECT = 76.83



PILECAP LAYOUT PLAN



NO	REVISION	REMARKS	DATE

Pemilik :

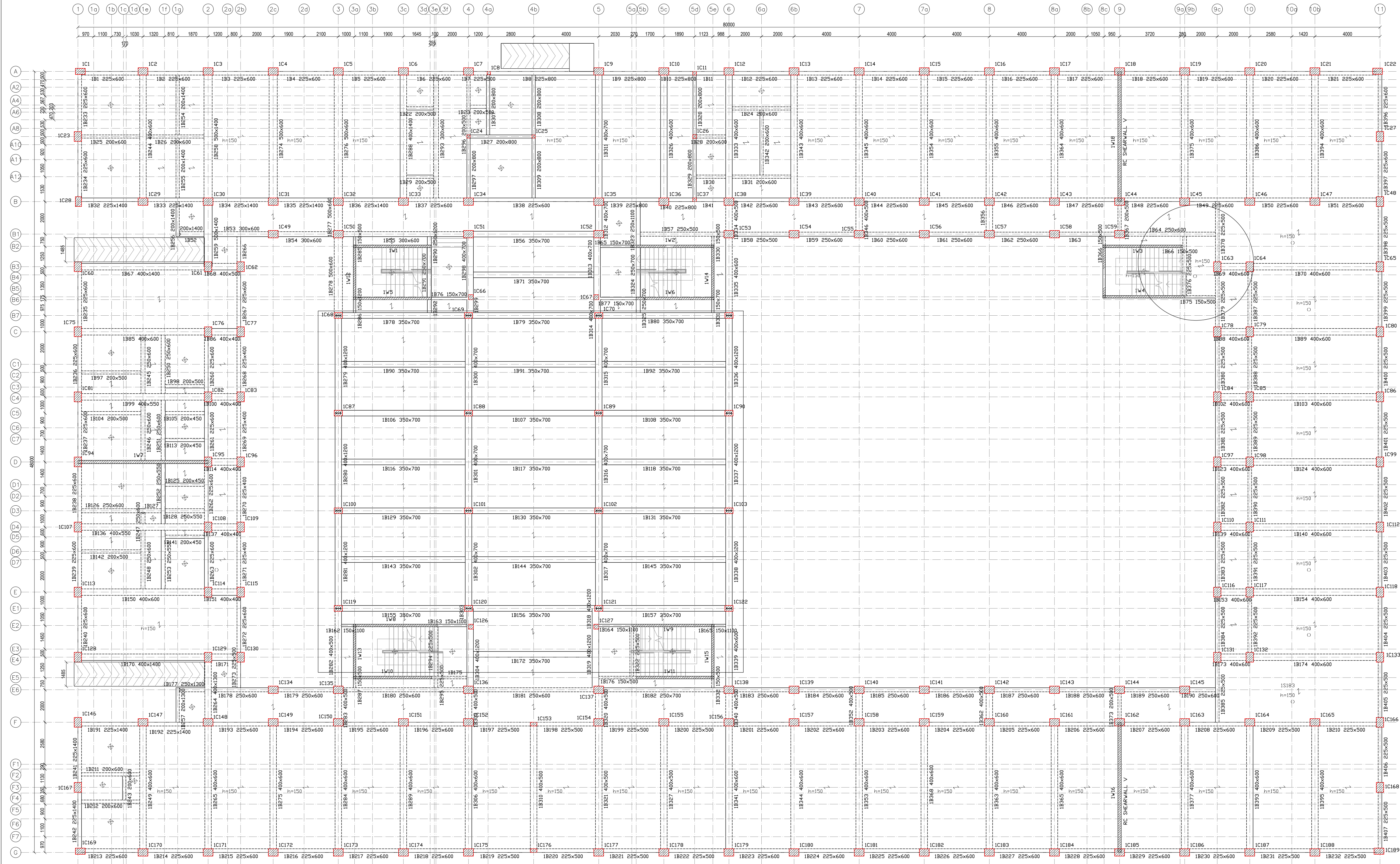
Perunding Awam dan Struktur :
"I hereby certify that these works have been designed by me in accordance with the sound engineering practice and take full responsibility for the design and proper performance of the same".



Project Consultancy Sdn. Bhd.
A CIVIL & STRUCTURAL ENGINEERING CONSULTANT
No. 4A Jalan Pulau Perdana 12, Taman Sri Pulau Perdana,
81300 Skudai, Johor Bahru
Tel : 07-520 2422 Fax: 07-520 4542

Tajuk Projek :
CADANGAN MEMBINA DAN MENYIAPKAN KAMPUS AKADEMI BINAAN MALAYSIA WILAYAH SELATAN JOHOR FASA 1 UNTUK LEMBAGA PEMBANGUNAN INDUSTRI PEMBINAAN MALAYSIA (CIDB)

Tajuk Lukisan : HOSTEL			
PILECAP LAYOUT PLAN			
Direka	SYH	Skala	1:125
Dilukis		Tarikh	APRIL 2022
Disemak		Diluluskan	SYH
JOB NO.		No. Lukisan	
OPC2017/08		H-01	



GROUND FLOOR BEAM KEY PLAN

ALL SLAB THICKNESS SHALL BE 125mm UNLESS OTHERWISE STATED

NO	REVISION	REMARKS	DATE

Pemilik :

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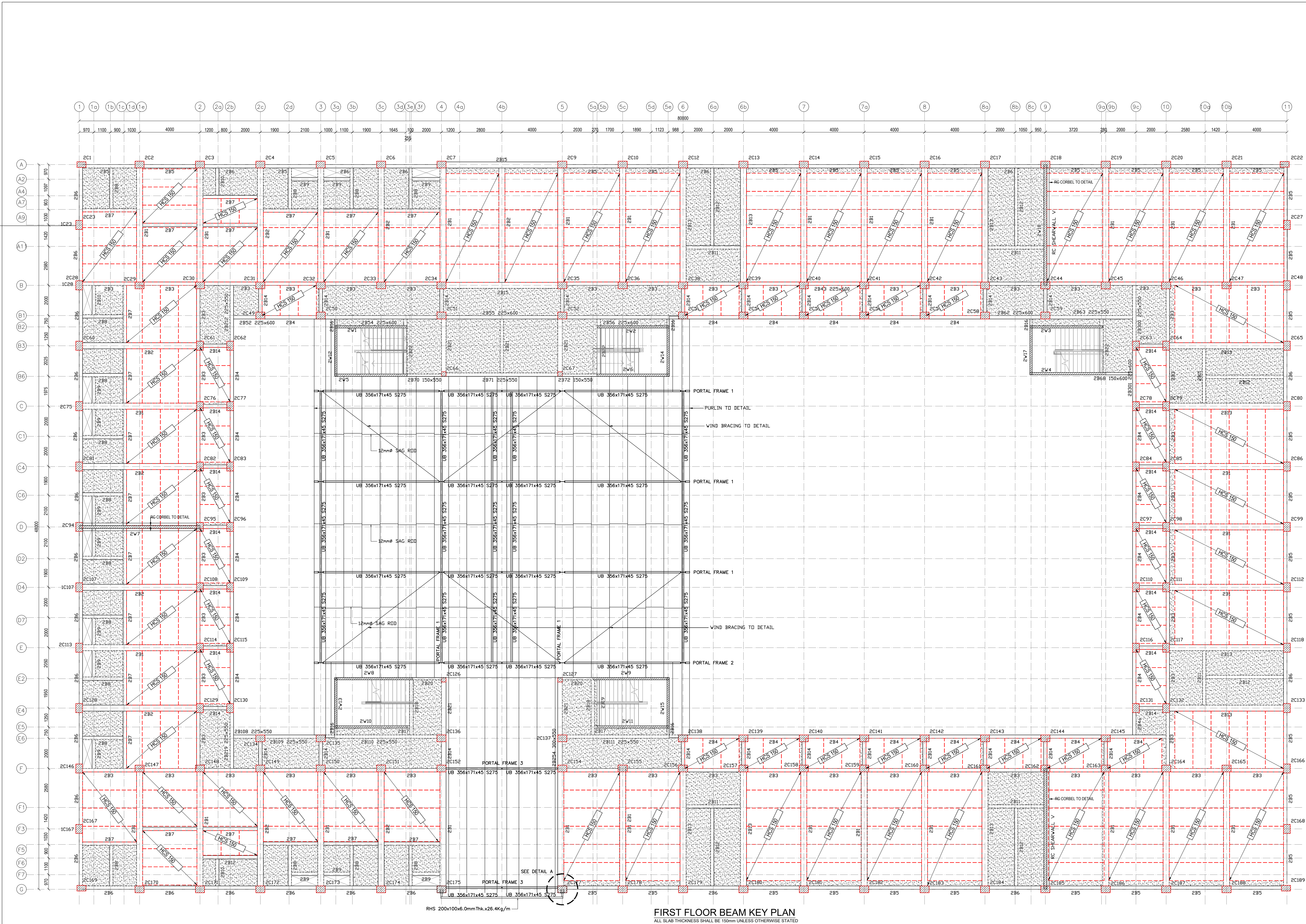
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Tajuk Projek :
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BINAAN MALAYSIA WILAYAH SELATAN
JOHOR FASA 1 UNTUK LEMBAGA
PEMBANGUNAN INDUSTRI PEMBINAAN
MALAYSIA (CIDB)**

Tajuk Lukisan : **HOSTEL**

GROUND FLOOR BEAM KEY PLAN

Direka	SYH	Skala	1:125
Dilukis		Tarikh	APRIL 2022
Disemak		Diluluskan	SYH
JOB NO.	No. Lukisan		
OPC2017/08	H-02		



NO	REVISION	REMARKS	DATE

Pemilik :

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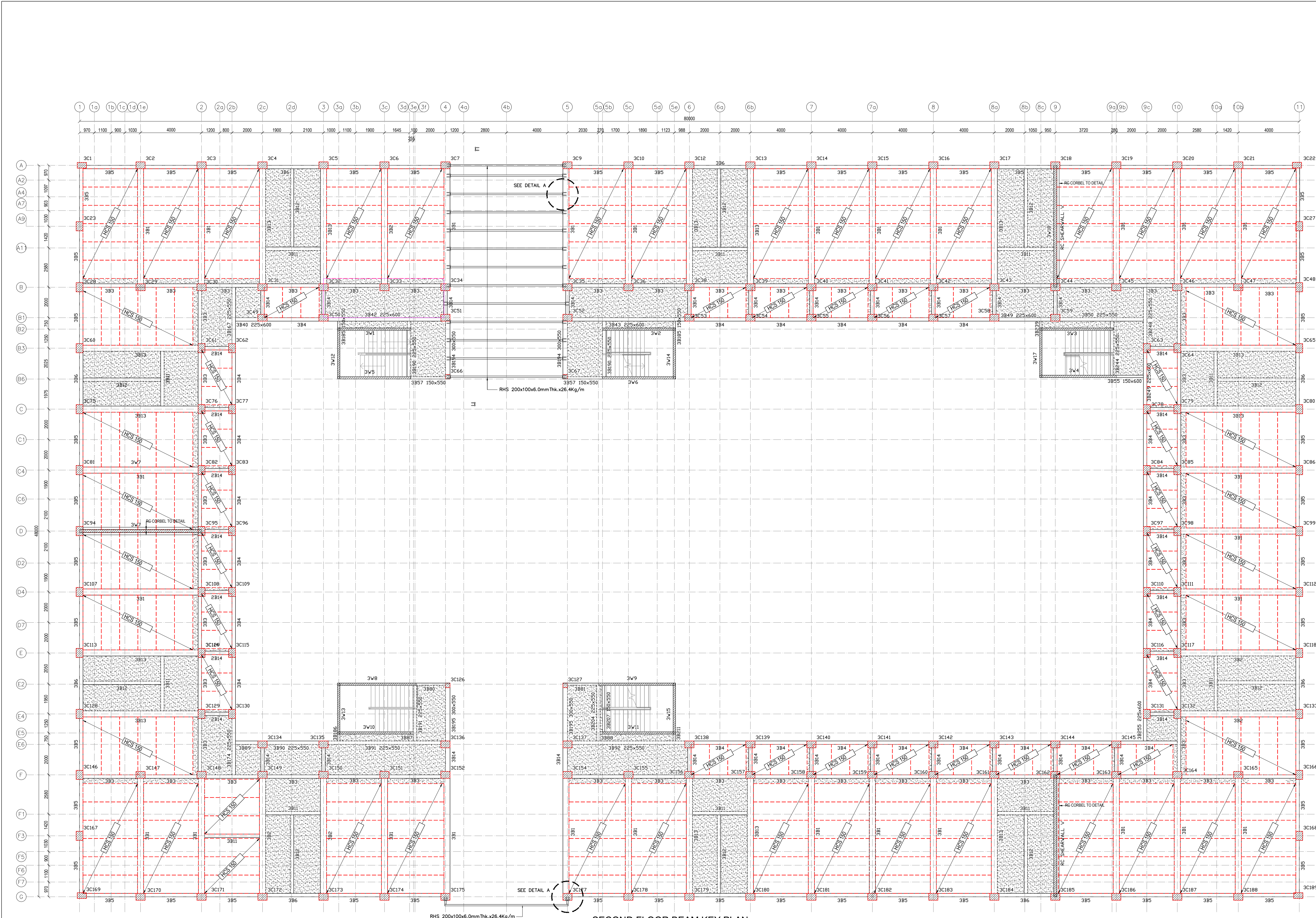
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Tajuk Projek :
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JOHOR FASA 1 UNTUK LEMBAGA
PEMBANGUNAN INDUSTRI PEMBINAAN
MALAYSIA (CIDB)**

Tajuk Lukisan : **HOSTEL**

FIRST FLOOR BEAM KEY PLAN

Direka	SYH	Skala	1:125
Ditulis	SYH	Tarikh	JUNE 2022
Disemak		Diluluskan	SYH
JOB NO.		No. Lukisan	
OPC2017/08		H-03	



PLAN LEGEND
UNLESS STATED OTHERWISE,
1. ALL PRECAST COLUMNS SHALL BE 600 X 450MM.
DENOTES CAST IN-SITU AREA
HCS 150 HOLLOW CORE SLAB 150mm THICKNESS TO MANUFACTURER'S DETAIL

SECOND FLOOR BEAM KEY PLAN
ALL SLAB THICKNESS SHALL BE 150mm UNLESS OTHERWISE STATED

NO	REVISION	REMARKS	DATE

Pemilik :

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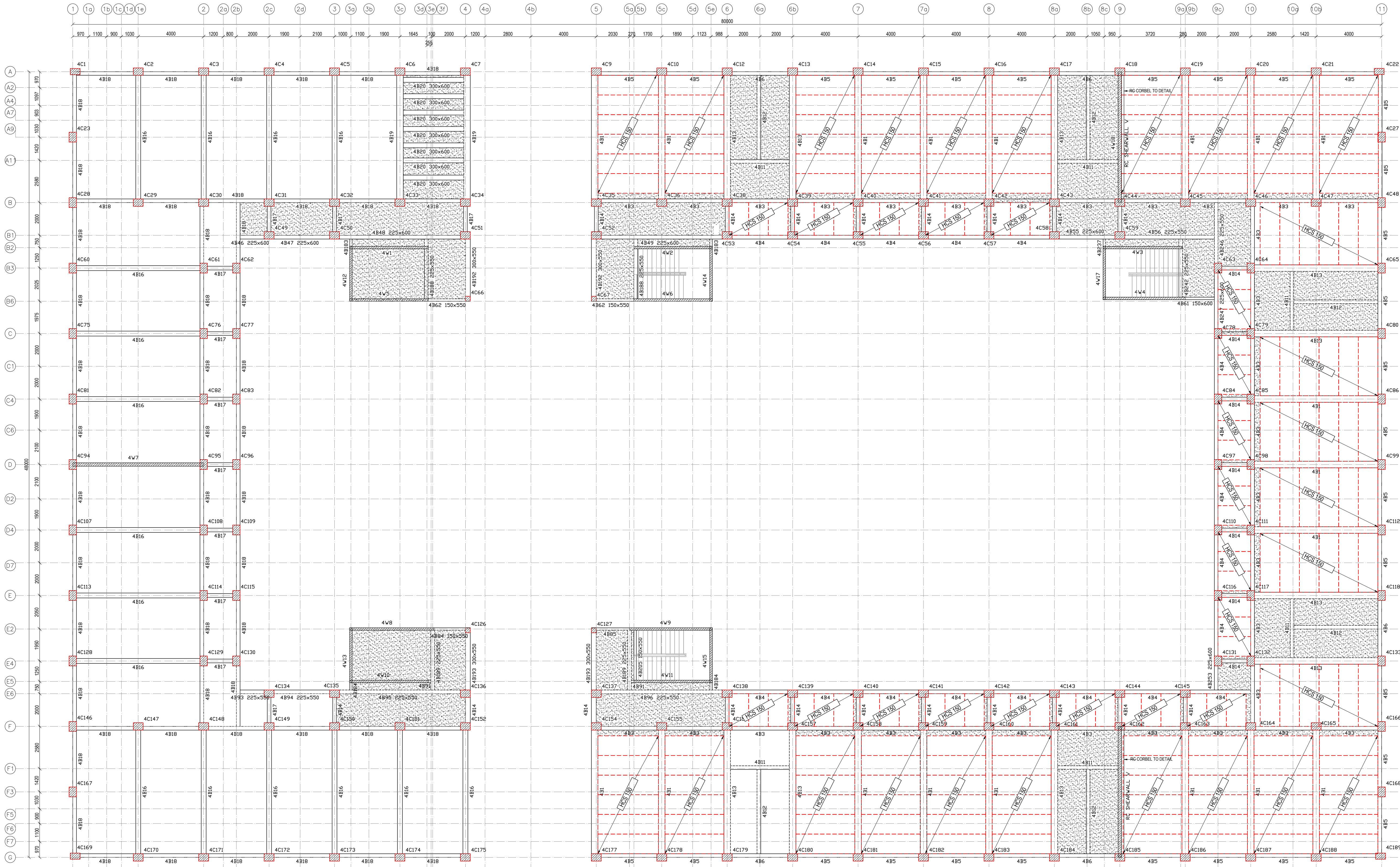
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Tajuk Projek :
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PEMBANGUNAN INDUSTRI PEMBINAAN
MALAYSIA (CIDB)

Tajuk Lukisan :
HOSTEL

SECOND FLOOR BEAM KEY PLAN

Direka	SYH	Skala	1:125
Dilukis	SYH	Tarikh	JUNE 2022
Disemak		Diluluskan	SYH
JOB NO.	No. Lukisan		
OPC2017/08	H-04		



THIRD FLOOR BEAM KEY PLAN
ALL SLAB THICKNESS SHALL BE 150mm UNLESS OTHERWISE STATED

PLAN NOTES

1. THE LIGHT WEIGHT ROOF TRUSS SYSTEM SHALL BE USED AT THIRD FLOOR LEVEL

NO	REVISION	REMARKS	DATE

Pemilik :

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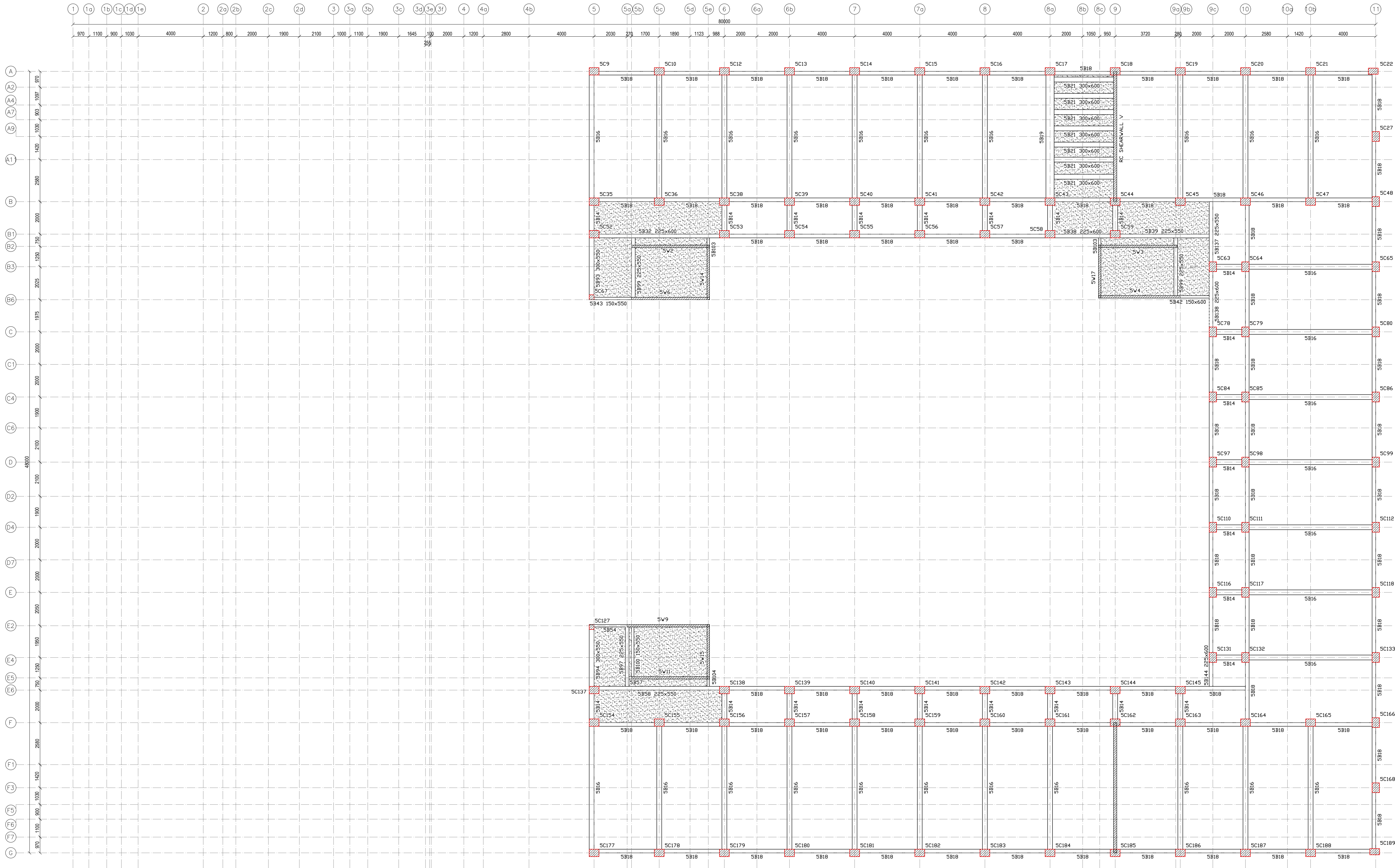
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Tajuk Lukisan : **HOSTEL**

THIRD FLOOR BEAM KEY PLAN

Direka	SYH	Skala	1:125
Dilukis	SYH	Tarikh	JUNE 2022
Disemak		Diluluskan	SYH
JOB NO.	No. Lukisan		
OPC2017/08	H-05		



ROOF BEAM KEY PLAN
ALL SLAB THICKNESS SHALL BE 150mm UNLESS OTHERWISE STATED

PLAN NOTES

1. THE LIGHT WEIGHT ROOF TRUSS SYSTEM SHALL BE USED AT ROOF BEAM LEVEL

NO	REVISION	REMARKS	DATE

Pemilik :

Perunding Awam dan Struktur :
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PEMBANGUNAN INDUSTRI PEMBINAAN
MALAYSIA (CIDB)

Tajuk Lukisan : HOSTEL

ROOF BEAM KEY PLAN

Direka	SYH	Skala	1:125
Dilukis	SYH	Tarikh	JUNE 2022
Disemak		Diluluskan	SYH

JOB NO.	No. Lukisan
OPC2017/08	H-06