

SIDE VIEW G2 SECTIONAL VIEW

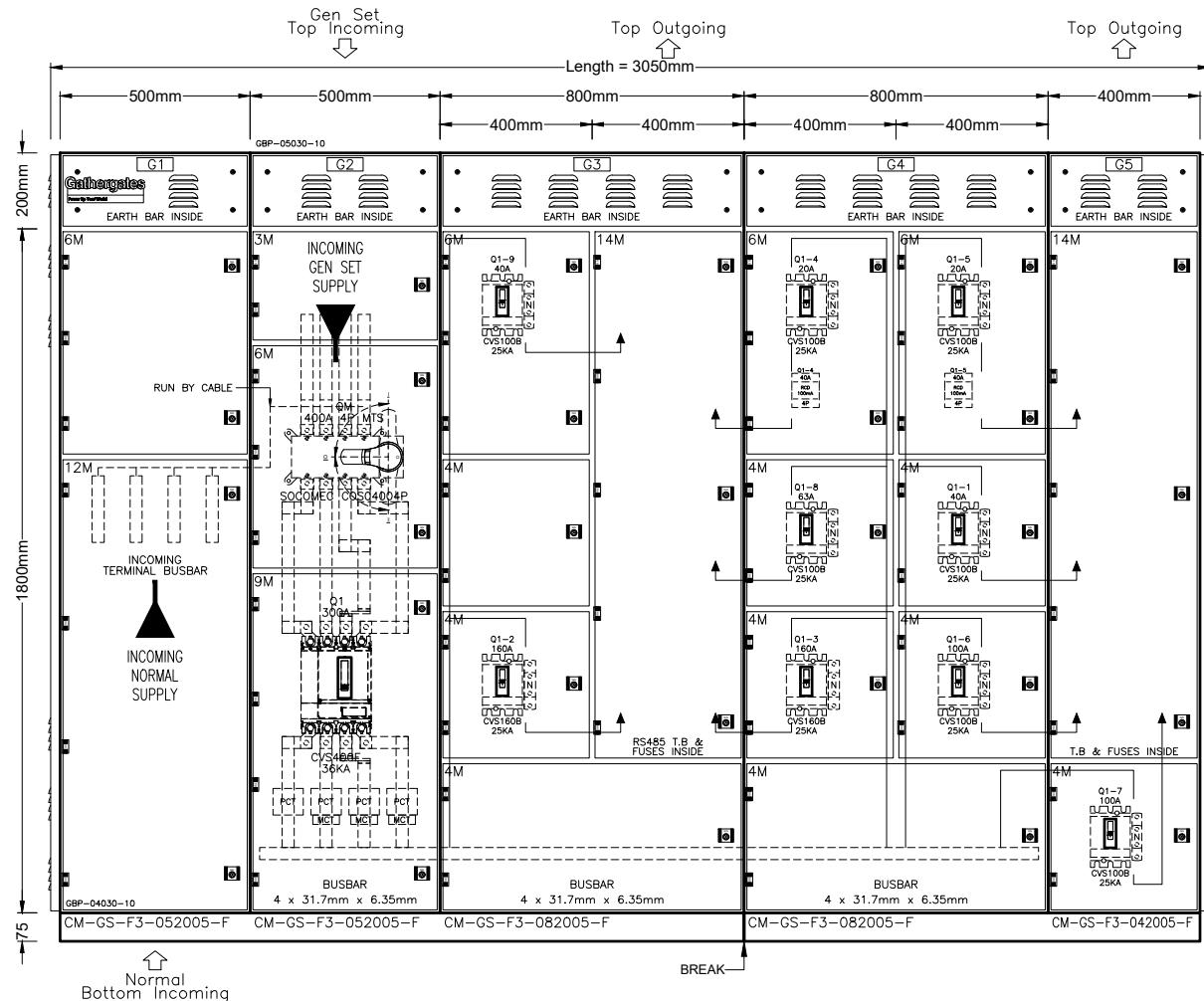
MSB-2
(FRONT ACCESS / FORM 3)

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD	CLIENT : CHIN SENG ENGINEERING (S) PTE LTD	REV. NO.	AMENDMENTS	DATE	DRAWN BY : AHSAN	DATE : 30.09.23	GATHERGATES SWITCHGEAR PTE LTD
		01	ES-2023-04604-A-9 (NASRUL)	13.12.23	CHECKED BY :	DATE :	
DRAWING TITLE : MSB-2 [C/W 400A MTS, FORM 2 BACK ACCESS,IP4X]	CONSULTANT :				REF :	SCALE : 1:20/A4	 Power Up Your World
	OWNER : DSTA				DWG NO. :PN-21-01366-23-04604-0001-L		

1 2 3 4 5 6 7 8

(—) BY BUSBAR		
AMPERE	BUSBAR SIZE	USAGE
350A & 400A	4 x 30mm x 10mm	10m

(—) BY CABLE	
AMPERE	INTERNAL CABLE SIZE
6A TO 20A	2.5sqmm
40A	10sqmm
63A	16sqmm
100A	35sqmm
150A & 160A	70sqmm



BUSBAR & CABLE ROUTING FOR MSB-2 (FRONT ACCESS / FORM 3)

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

DRAWING TITLE : MSB-2 [C/W 400A MTS, FORM 2 BACK ACCESS,IP4X]

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

CONSULTANT :

OWNER : DSTA

REV. NO. AMENDMENTS

01 ES-2023-04604-A-9 (NASRUL)

DATE

13.12.23

DRAWN BY : AHSAN

CHECKED BY :

DATE :

REF :

SCALE : 1:20/A4

DWG NO. :PN-21-01366-23-04604-0001-R

GATHERGATES SWITCHGEAR PTE LTD

Gathergates
Power Up Your World

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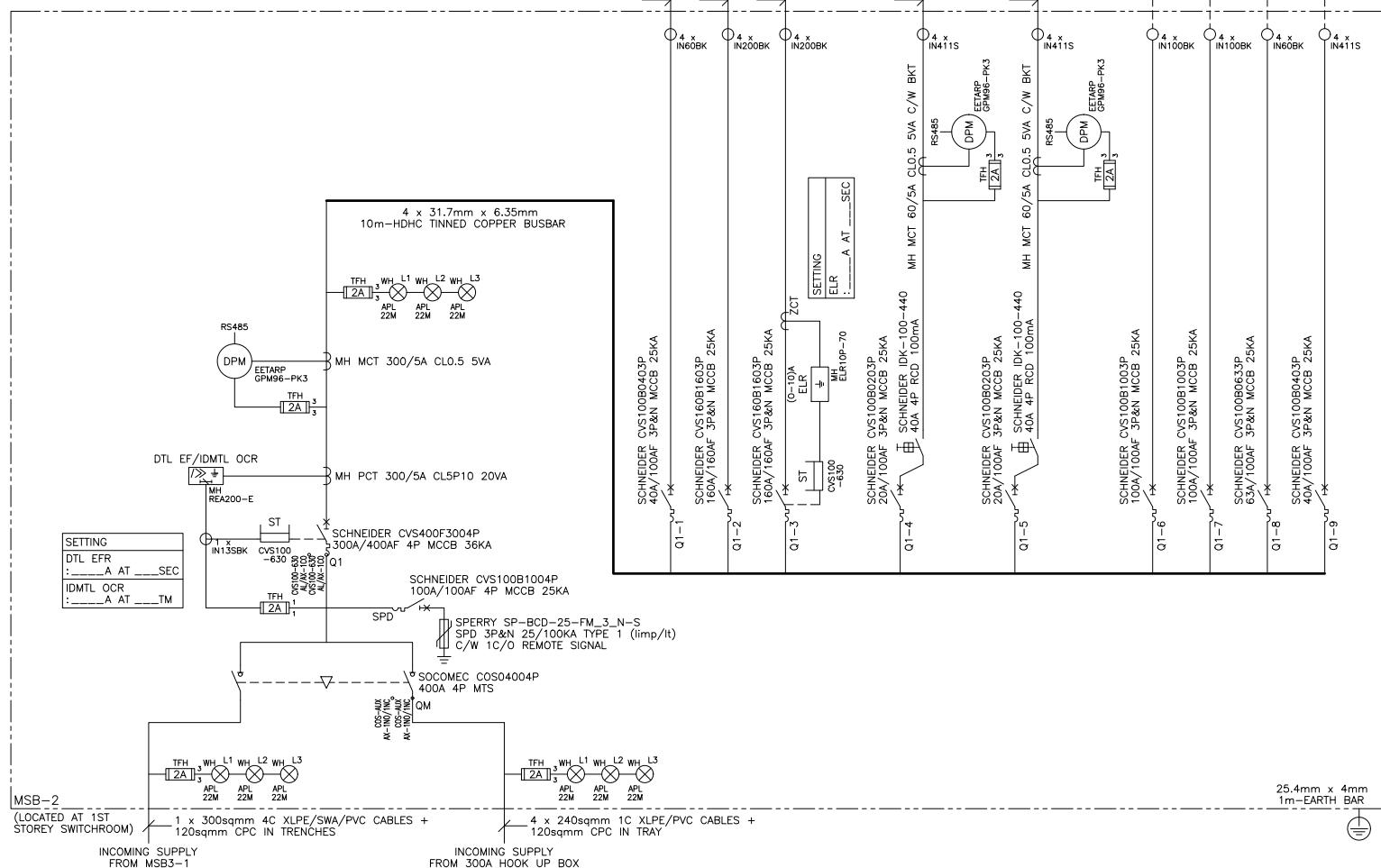
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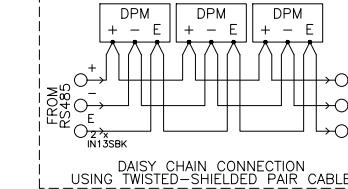
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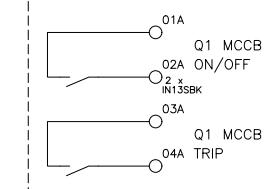
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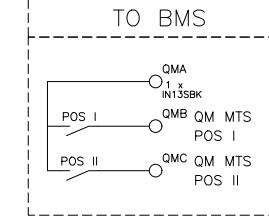
RS485 COMMUNICATION



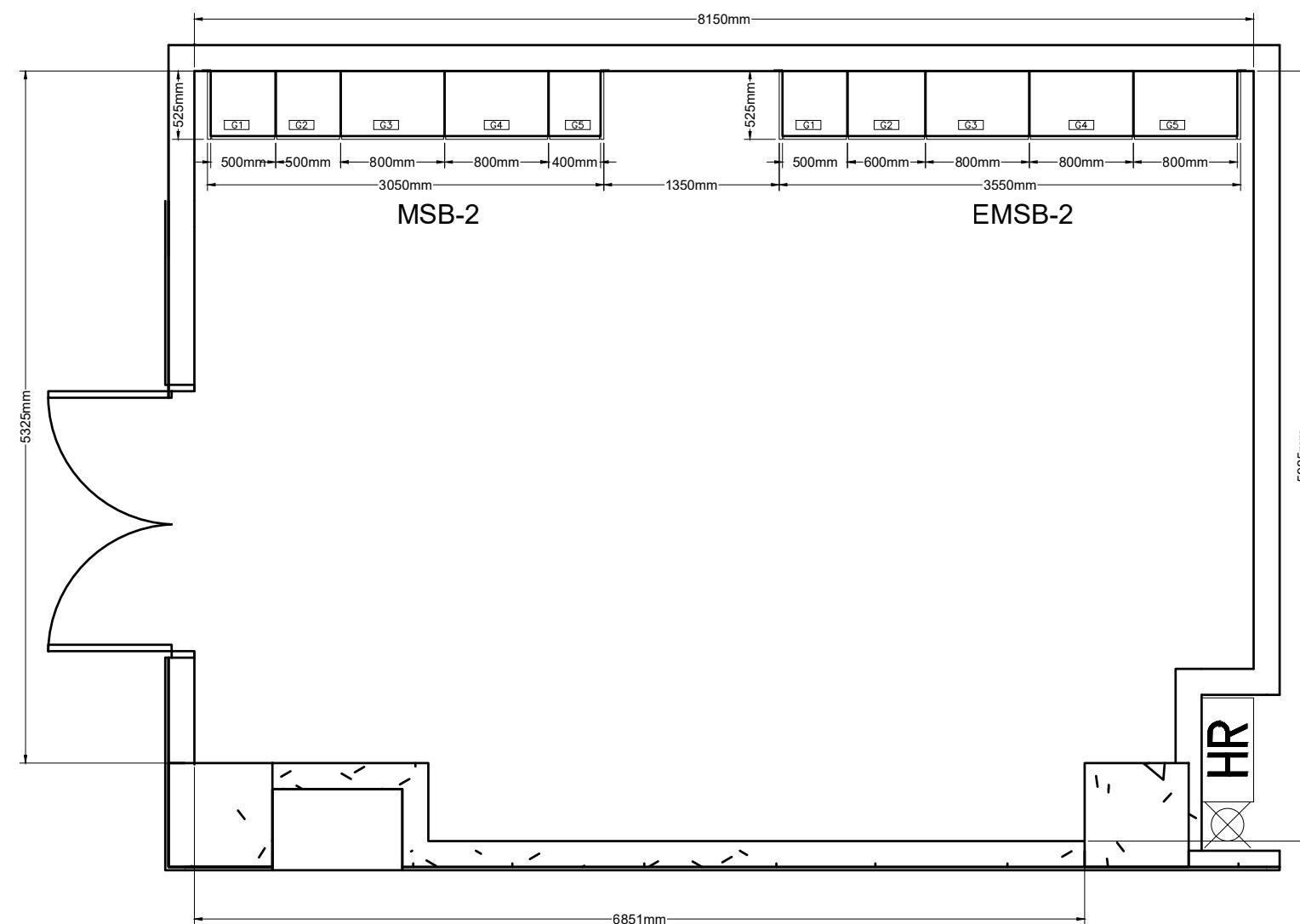
TO BMS



TO BMS



1 2 3 4 5 6 7 8



PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO. AMENDMENTS

DATE

DRAWN BY : AHSAN

DATE : 30.09.23

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

01 ES-2023-04604-A-9 (NASRUL)

13.12.23

CHECKED BY :

DATE :

OWNER : DSTA

REF :

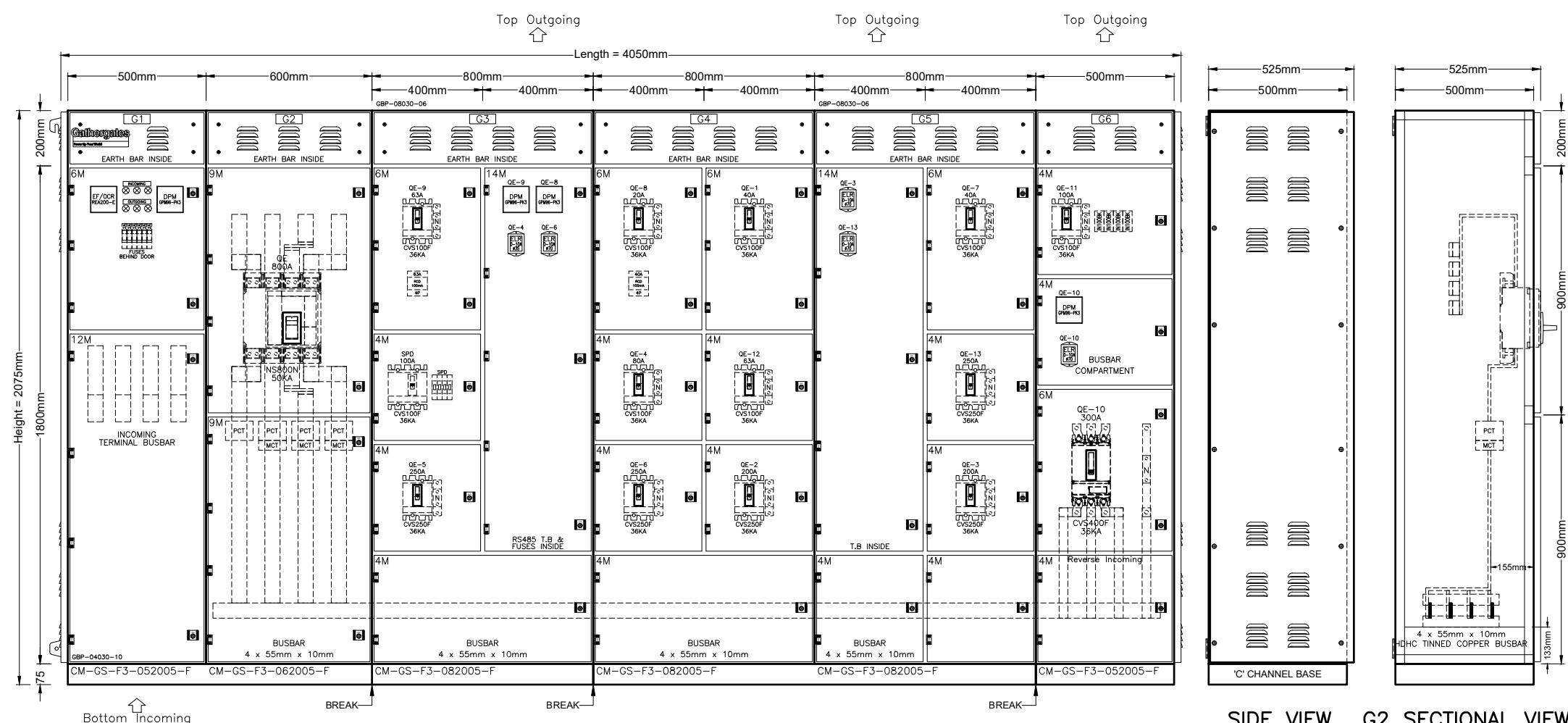
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DWG NO. :PN-21-01366-23-04604-0001-SR

Gathergates
Power Up Your World

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8



SIDE VIEW G2 SECTIONAL VIEW

EMSB-2 (FRONT ACCESS / FORM 3)

NOTES:
1. PANEL BREAK AS PER REQUEST

FS0800 6

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO. AMENDMENTS

DATE

DRAWN BY :

AHSAN

DATE :

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

13.12.23

CHECKED BY :

DATE :

OWNER : DSTA

23.01.24

REF :

SCALE : 1:20/A4

IP4X

27.06.24

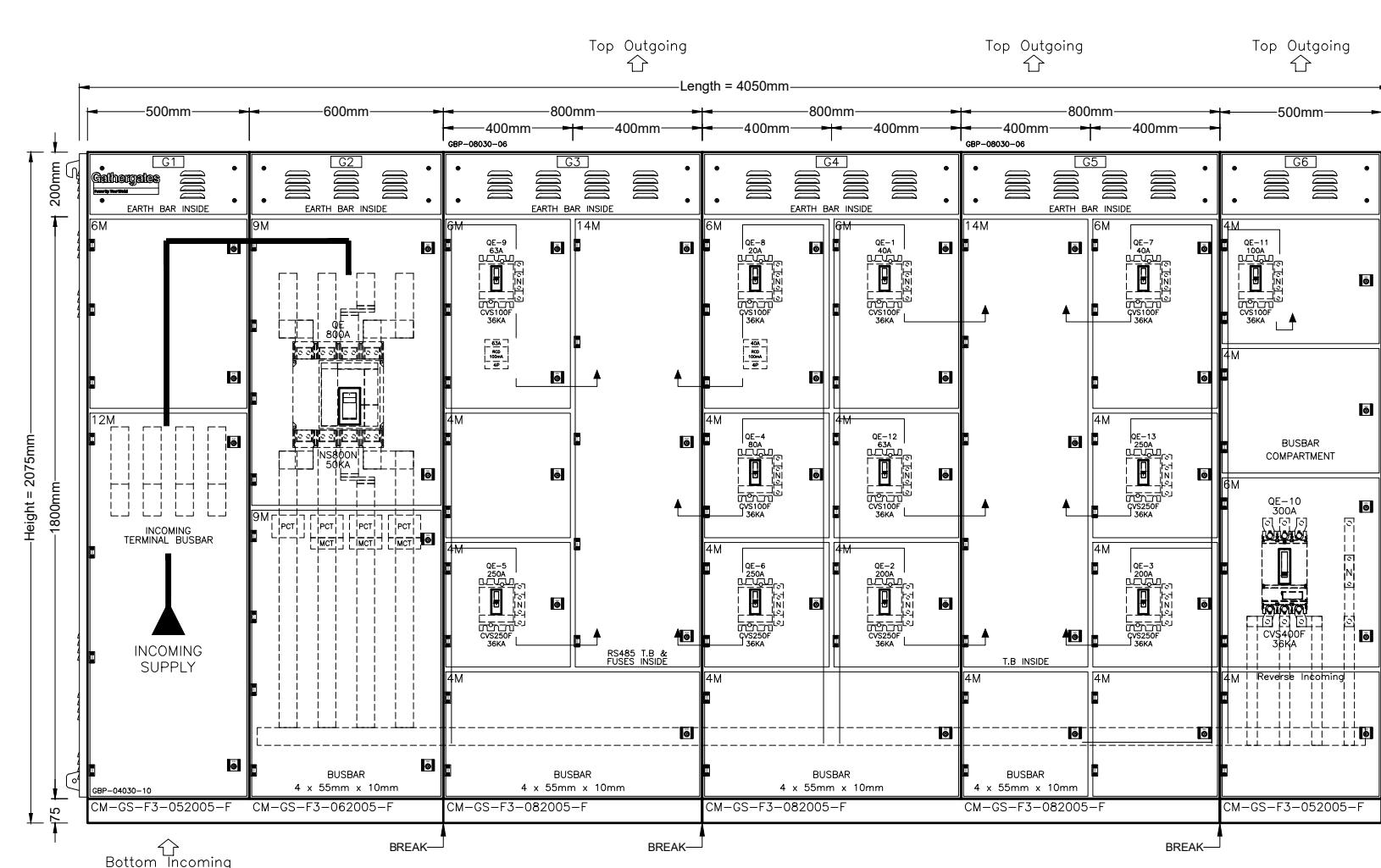
DWG NO. :PN-21-01366-23-04604-0002-L

Gathergates
Power Up Your World

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

(- - -) BY BUSBAR		
AMPERE	BUSBAR SIZE	USAGE
800A	4 x 55mm x 10mm	10 m
300A	4 x 31.7mm x 6.35mm	6 m



BUSBAR & CABLE ROUTING FOR EMSB-2 (FRONT ACCESS / FORM 3)

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

DRAWING TITLE : EMSB-2 [800A, FORM 2 BACK ACCESS,IP4X]

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

CONSULTANT :

OWNER : DSTA

REV. NO. AMENDMENTS

01	ES-2023-04604-A-9 (NASRUL)	13.12.23
02	ES-2023-04604-A-17 (VELU)	23.01.24
03	ES-2023-04604-A-29 (VELU)	27.06.24

DATE : 30.09.23 DRAWN BY : AHSAN

DATE : GATHERGATES SWITCHGEAR PTE LTD

CHECKED BY :

DATE :

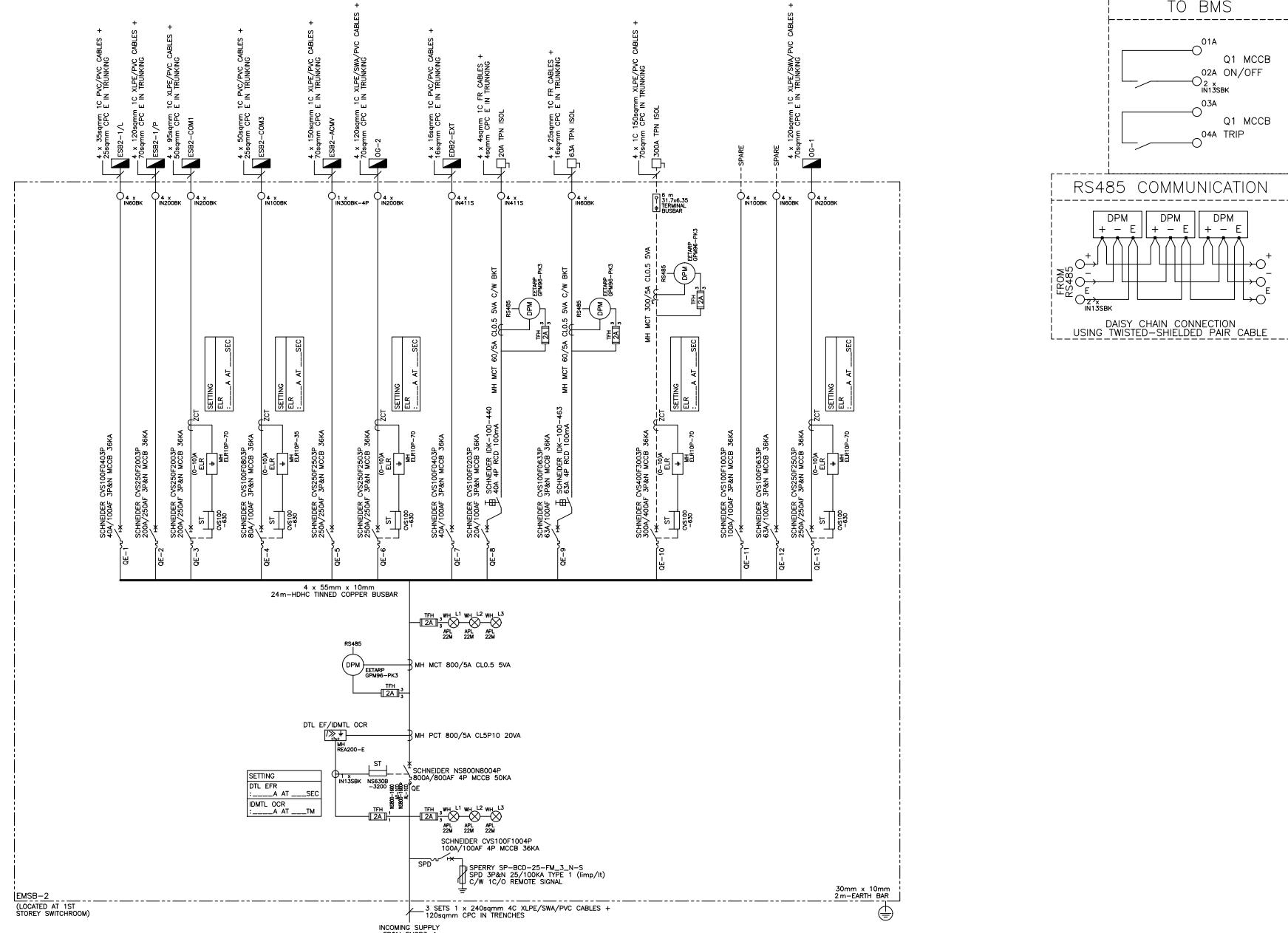
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SCALE : 1:20/A4

DWG NO. : PN-21-01366-23-04604-0002-R

Gathergates
Power Up Your World

1 2 3 4 5 6 7 8



TO BMS

RS485 COMMUNICATION

DAISY CHAIN CONNECTION
USING TWISTED-SHIELDED PAIR CABLE
Gathergates
 Power Up Your World

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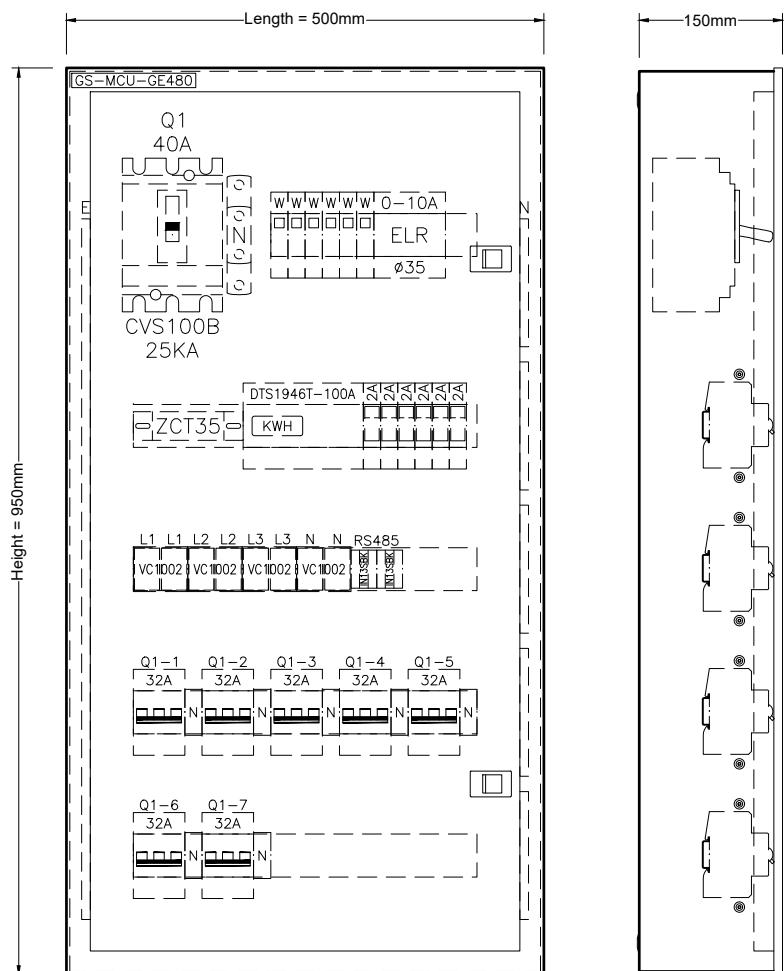
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ESB2-1/L

MCU-5R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO.

AMENDMENTS

DATE

DRAWN BY : MAYURI

DATE : 30.09.23

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

CHECKED BY :

DATE :

DRAWING TITLE : ESB2-1/L

OWNER : DSTA

REF :

SCALE : 1:8/A4

DWG NO. : PN-21-01366-23-04604-0003-L

Gathergates
Power Up Your World

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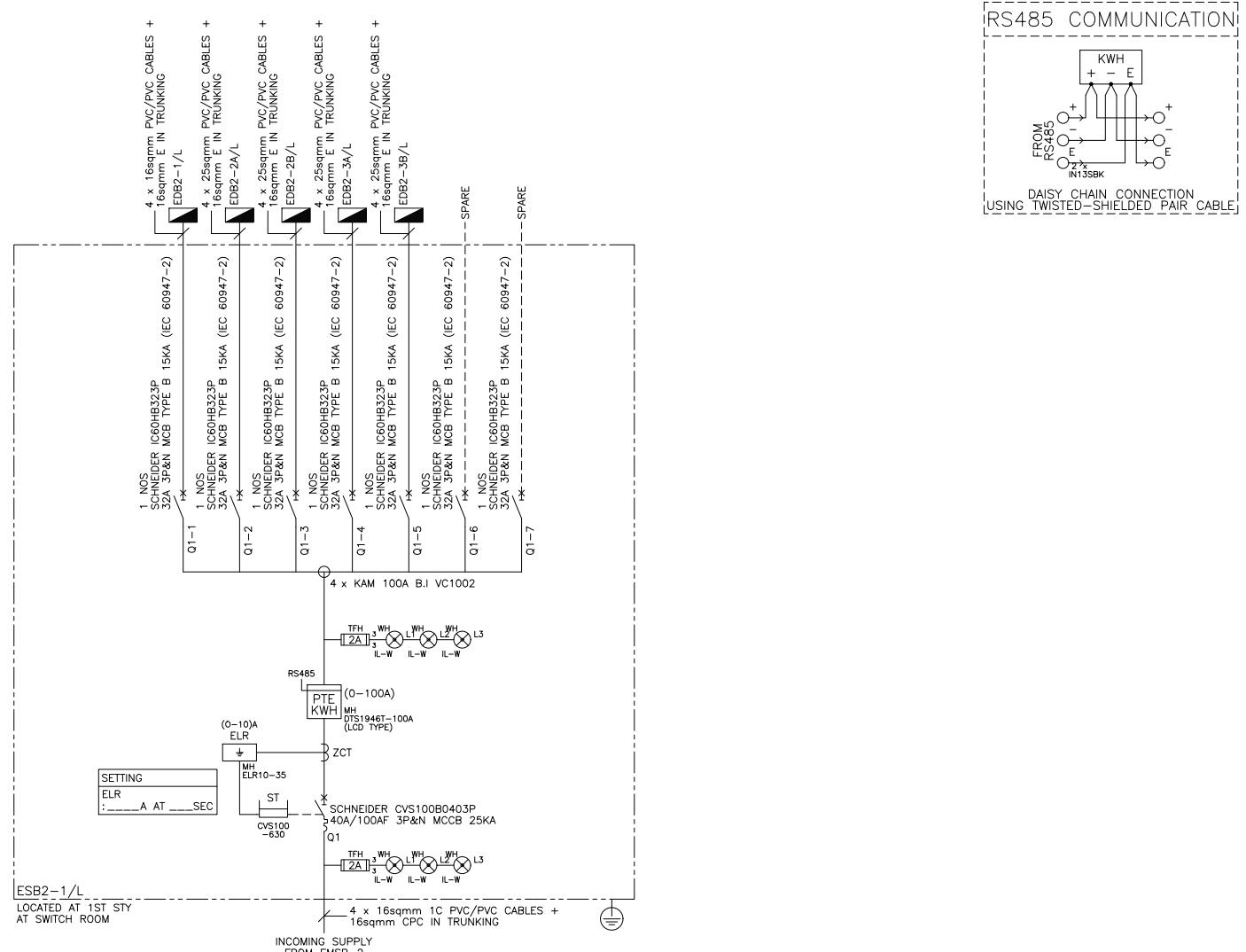
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PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SFMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

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REV. NO. AMEND

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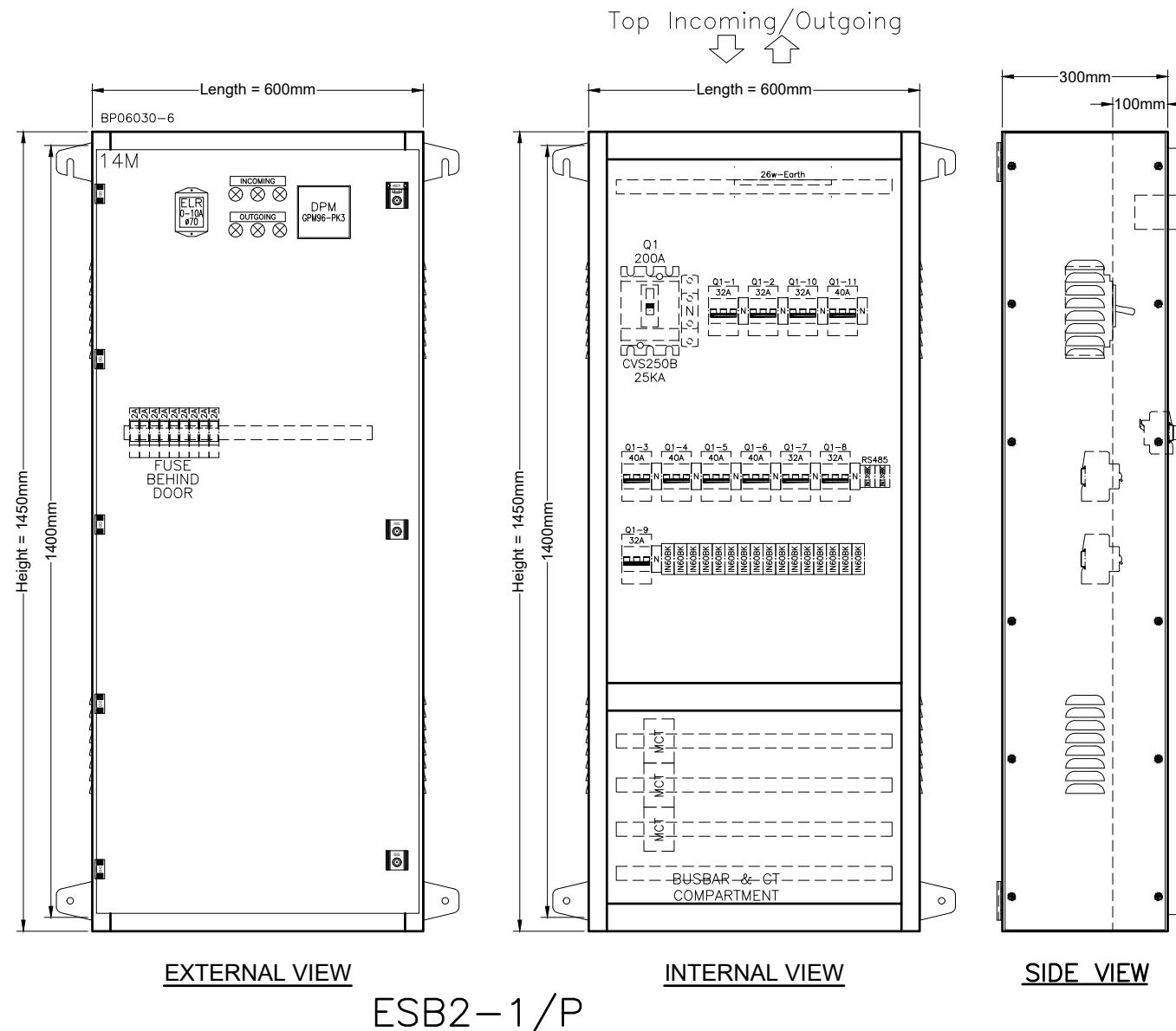
CHECKED BY : _____

DATE : 30.09.23 GATHERGATES SWITCHGEAR PTE LTD

Gathergates

Power Up Your World

1 2 3 4 5 6 7 8



PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO. AMENDMENTS

DATE

DRAWN BY : RAKSH

DATE : 30.09.23

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

01 ES-2023-04604-A-1 (VELU)

28.11.23

CHECKED BY :

DATE :

OWNER : DSTA

REF :

SCALE : 1:12/A4

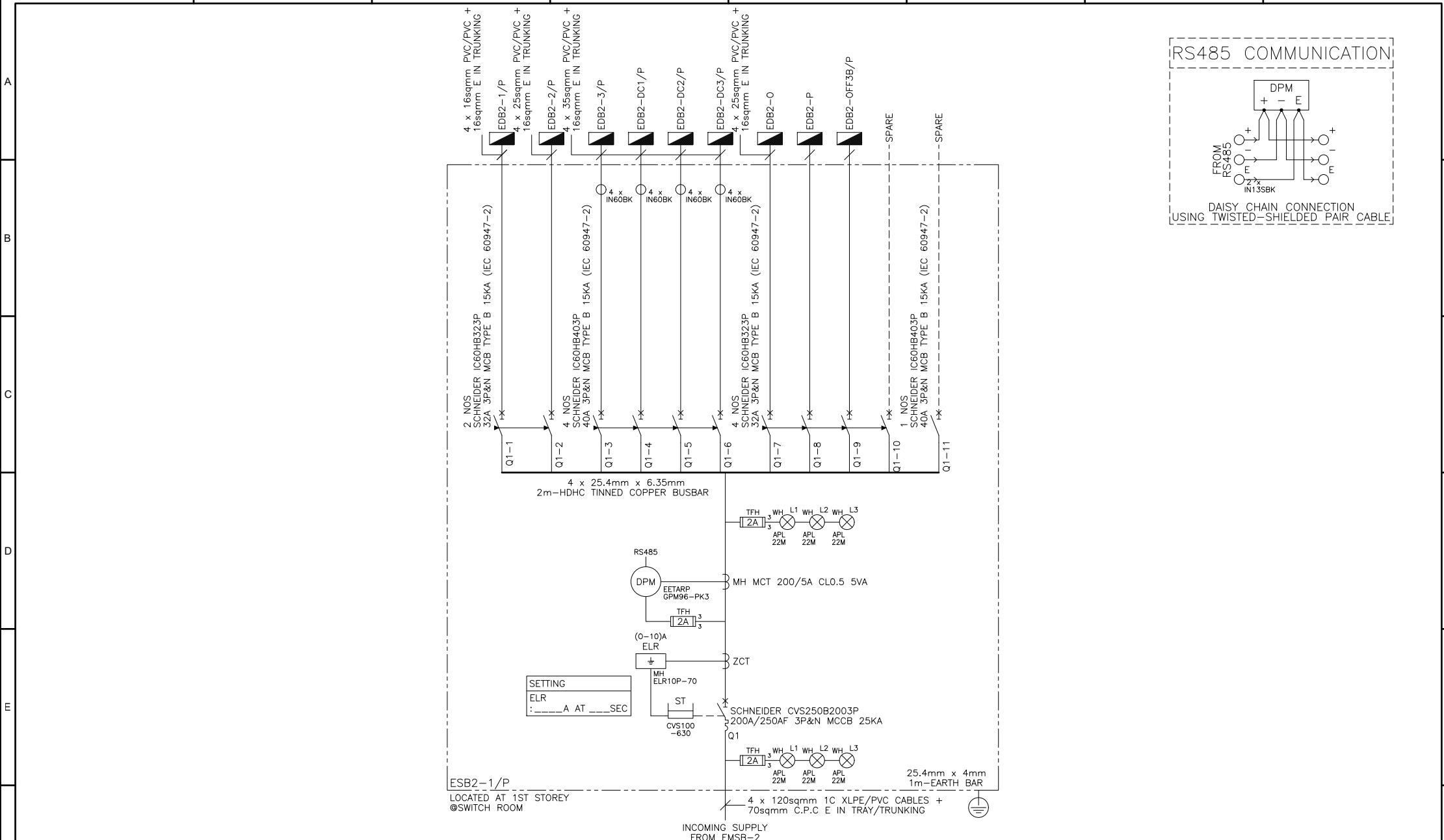
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DWG NO. : PN-21-01366-23-04604-0004-L

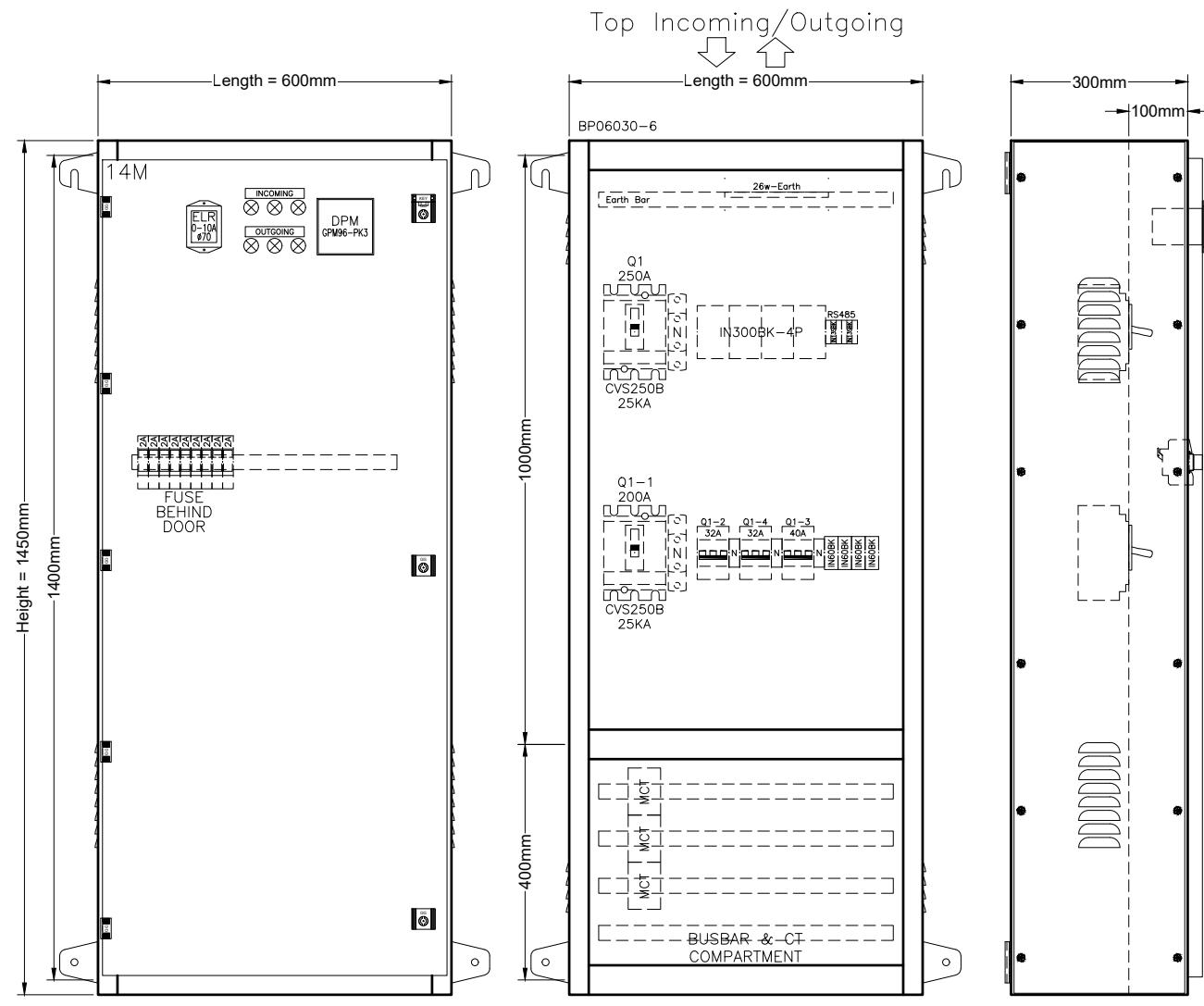
Gathergates
Power Up Your World

1 2 3 4 5 6 7 8

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1 2 3 4 5 6 7 8



FRONT VIEW

INTERNAL VIEW

SIDE VIEW

ESB2-ACMV

WM0250 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO. AMENDMENTS

DATE :

DRAWN BY : RAKSH

DATE : 30.09.23

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

01 ES-2023-04604-A-1 (VELU)

28.11.23

CHECKED BY :

DATE :

OWNER : DSTA

REF :

SCALE : 1:12/A4

DRAWING TITLE : ESB2-ACMV

DWG NO. : PN-21-01366-23-04604-0005-L

Gathergates
Power Up Your World

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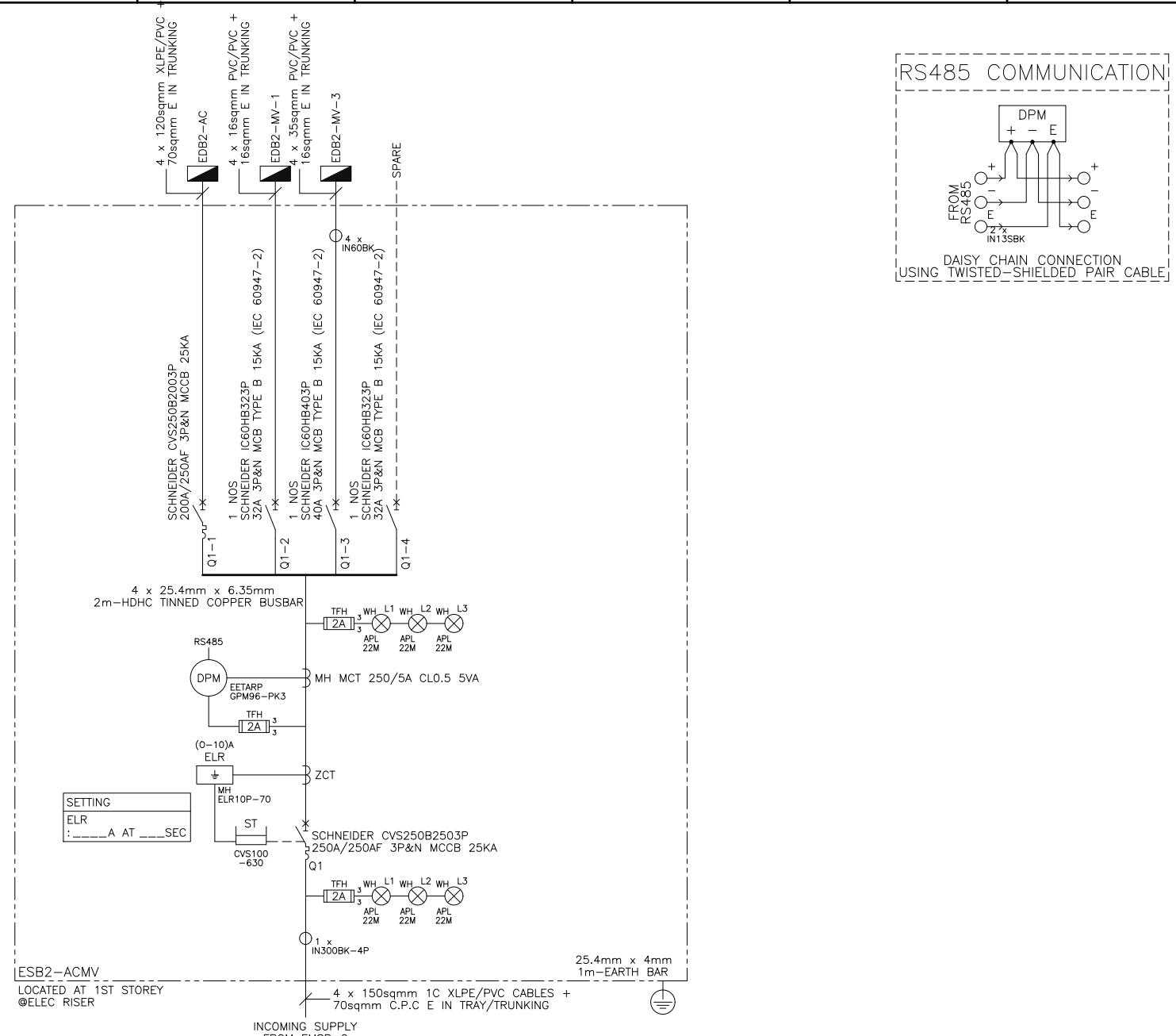
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PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

DRAWING TITLE : ESB2-ACMV

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

CONSULTANT :

OWNER : DSTA

REV. NO. AMENDMENTS

01 ES-2023-04604-A-1 (VELU)

DATE

28.11.23

DRAWN BY : RAKSH

DATE : 30.09.23

GATHERGATES SWITCHGEAR PTE LTD

REF : SCALE : N.T.S

Gathergates

Power Up Your World

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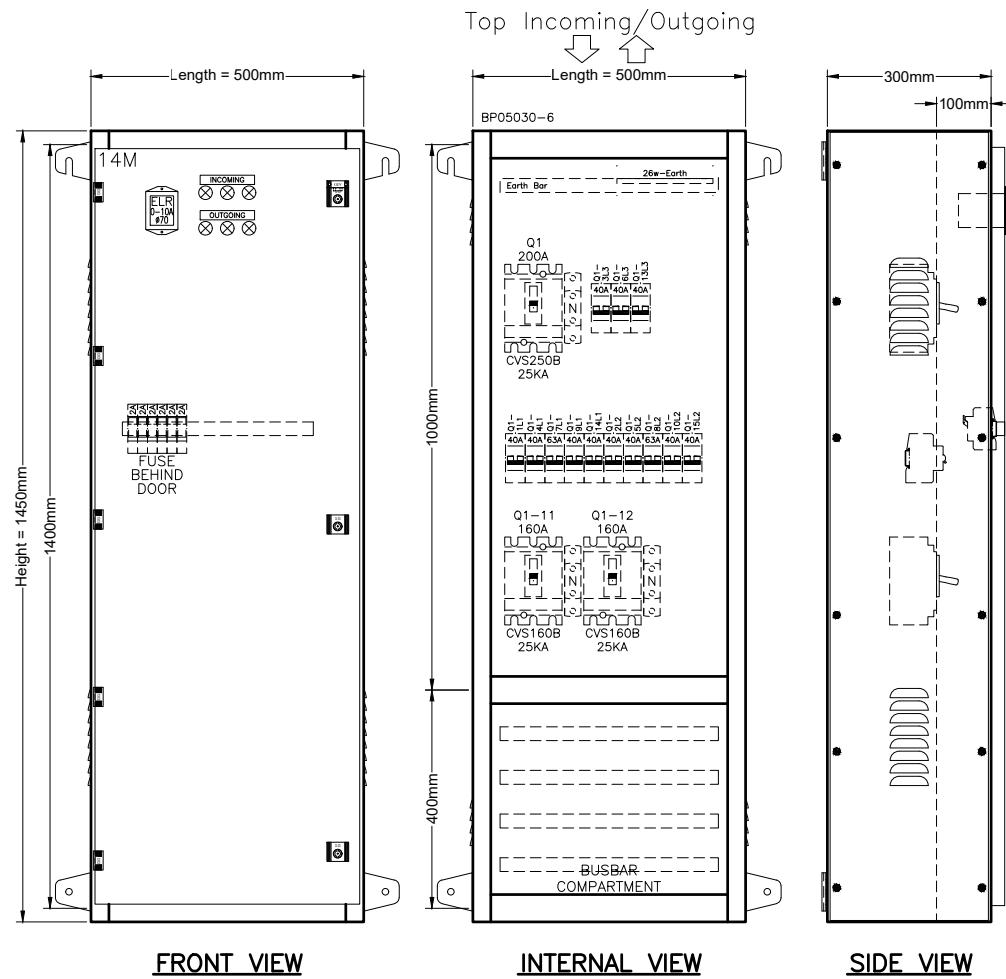
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FRONT VIEWINTERNAL VIEWSIDE VIEW

ESB2-COM1

NOTES:

- PANEL DESIGN AS PER REQUEST.

WM0250 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO. AMENDMENTS

DATE

DRAWN BY :

RAKSH

DATE : 30.09.23

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

01 ES-2023-04604-A-4 (RAKSH)

01.12.23

CHECKED BY :

DATE :

REF :

SCALE :

1:12/A4

DRAWING TITLE : ESB2-COM1

OWNER : DSTA

02 ES-2023-04604-A-26 (NASRUL)

01.06.24

REF :

SCALE : 1:12/A4

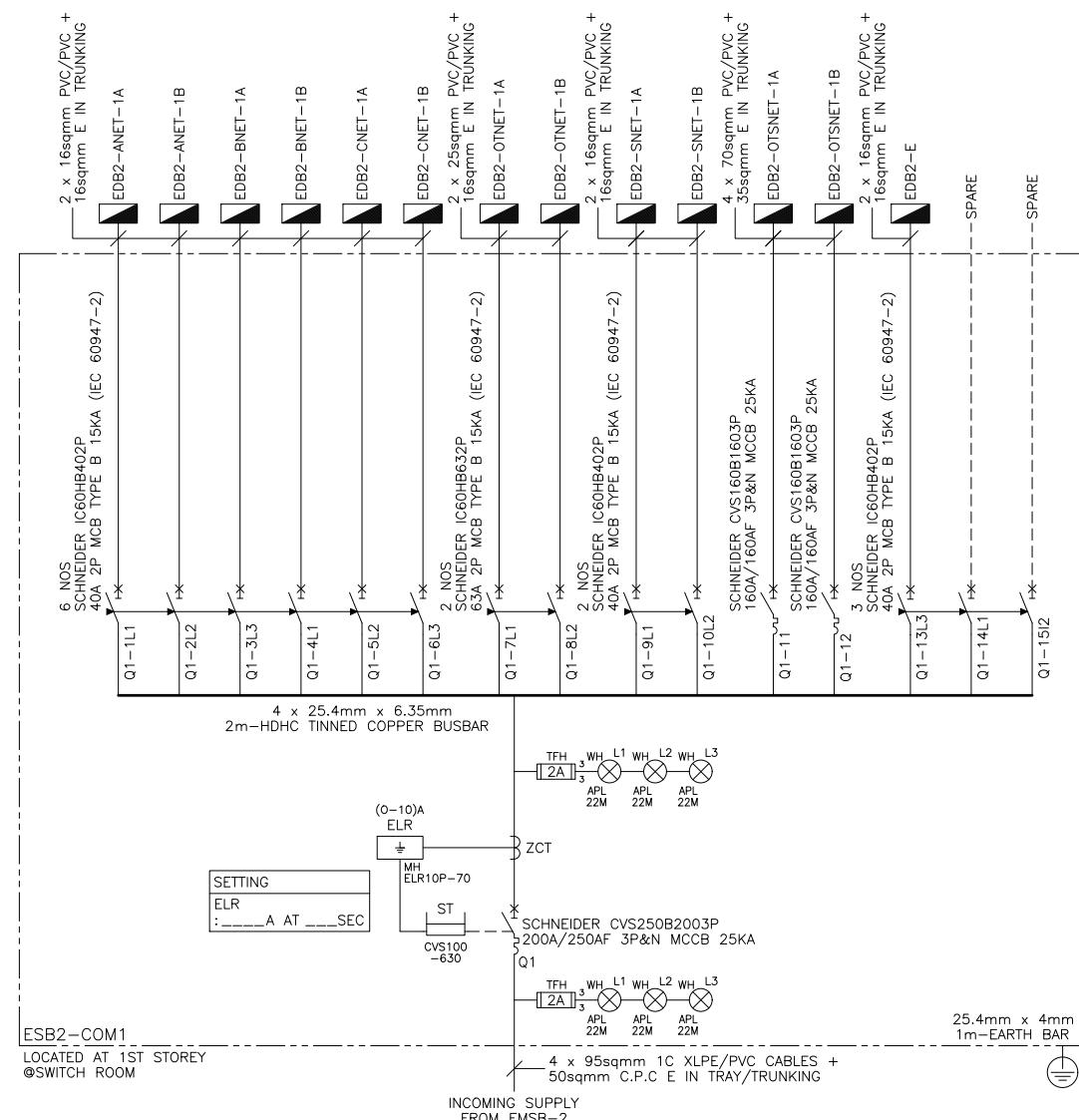
DWG NO. :

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DWG NO. :

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Gathergates
Power Up Your World



PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD	CLIENT : CHIN SENG ENGINEERING (S) PTE LTD	REV. NO.	AMENDMENTS	DATE	DRAWN BY : RAKSH	DATE : 30.09.23	GATHERGATES SWITCHGEAR PTE LTD
		01	ES-2023-04604-A-4 (RAKSH)	01.12.23	CHECKED BY :	DATE :	
DRAWING TITLE : ESB2-COM1	CONSULTANT :	02	ES-2023-04604-A-26 (NASRUL)	01.06.24	REF :	SCALE : N.T.S	
	OWNER : DSTA				DWG NO. :PN-21-01366-23-04604-0006-S		

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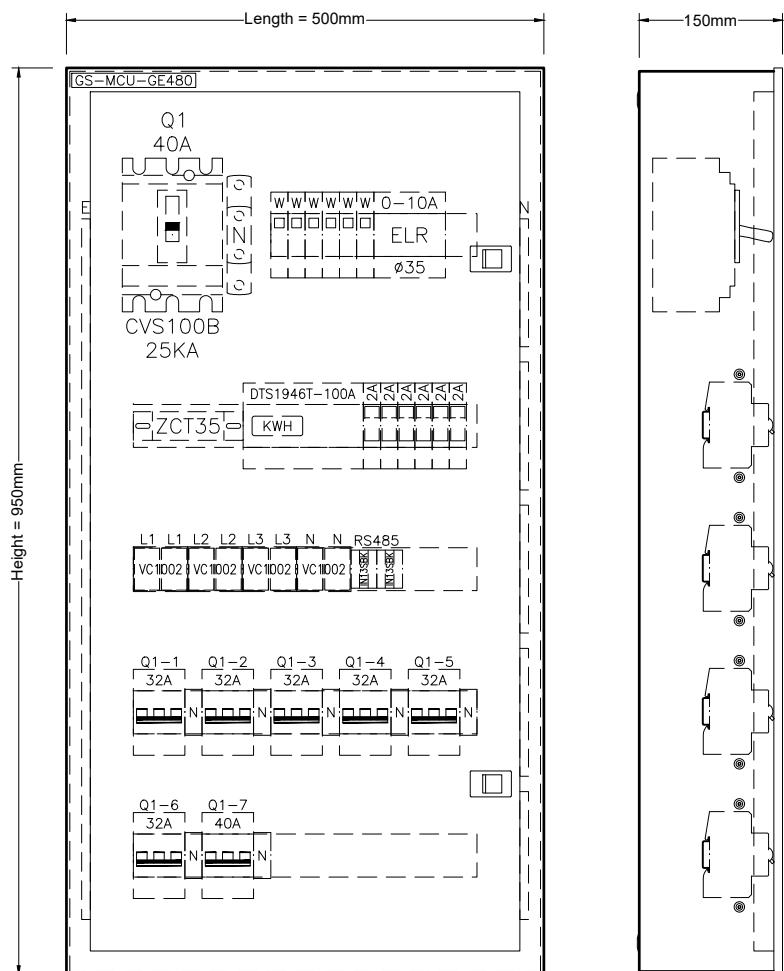
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SB2-1/L

MCU-5R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO. AMENDMENTS

DATE

DRAWN BY : MAYURI

DATE : 30.09.23

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

CHECKED BY :

DATE :

OWNER : DSTA

REF :

SCALE : 1:8/A4

DRAWING TITLE : SB2-1/L

DWG NO. : PN-21-01366-23-04604-0007-L

Gathergates
Power Up Your World

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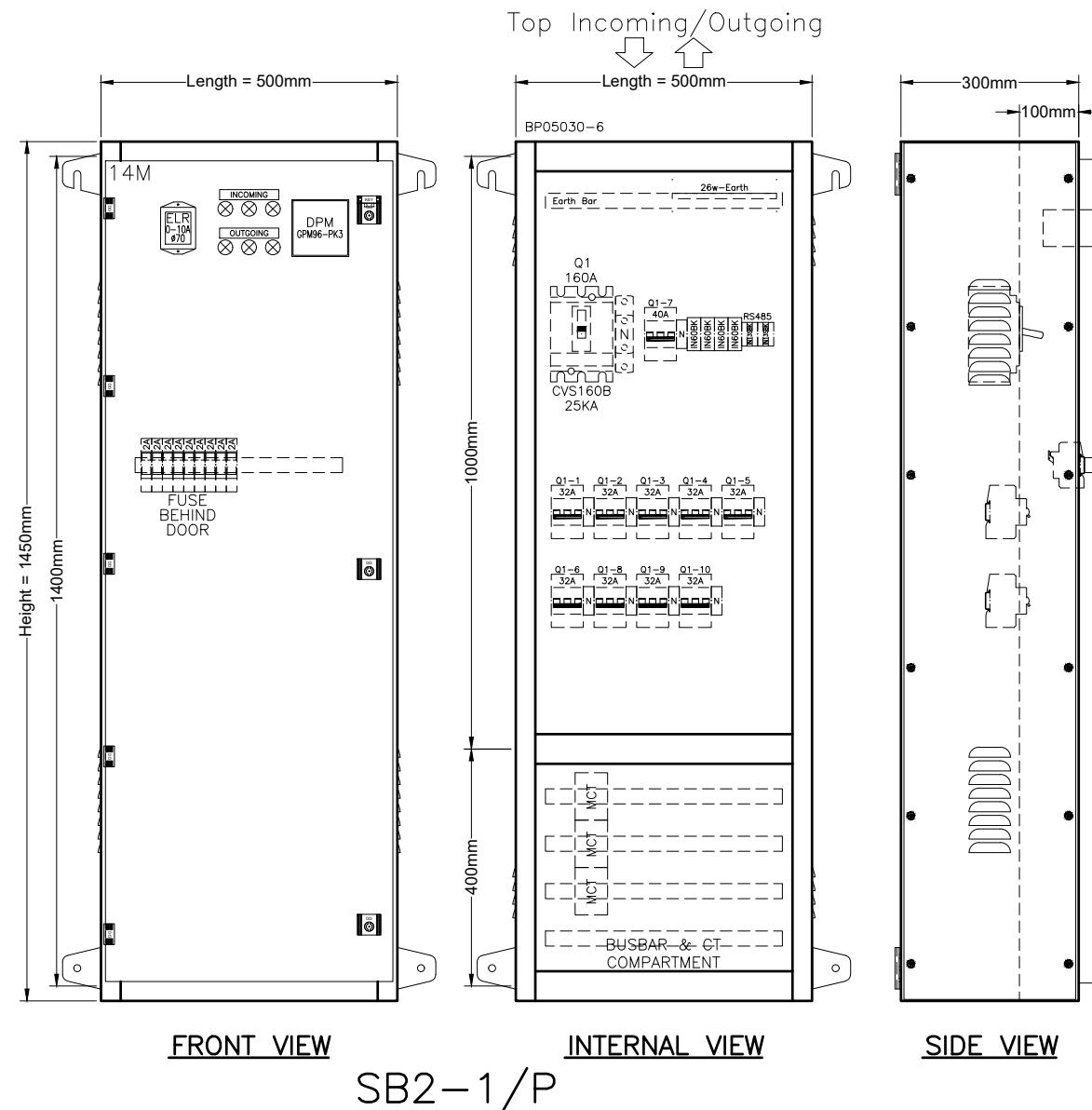
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WM0250 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO.

AMENDMENTS

DATE

28.11.23

DRAWN BY :

RAKSH

DATE :

30.09.23

GATHERGATES SWITCHGEAR PTE LTD

DRAWING TITLE : SB2-1/P

CONSULTANT :

OWNER : DSTA

01

ES-2023-04604-A-1 (VELU)

CHECKED BY :

REF :

SCALE :

1:12/A4

DWG NO. :PN-21-01366-23-04604-0008-L

Gathergates
Power Up Your World

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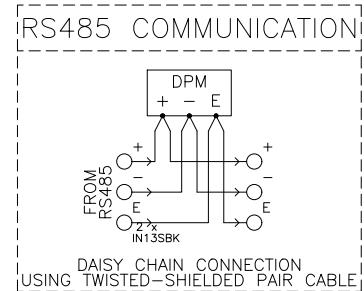
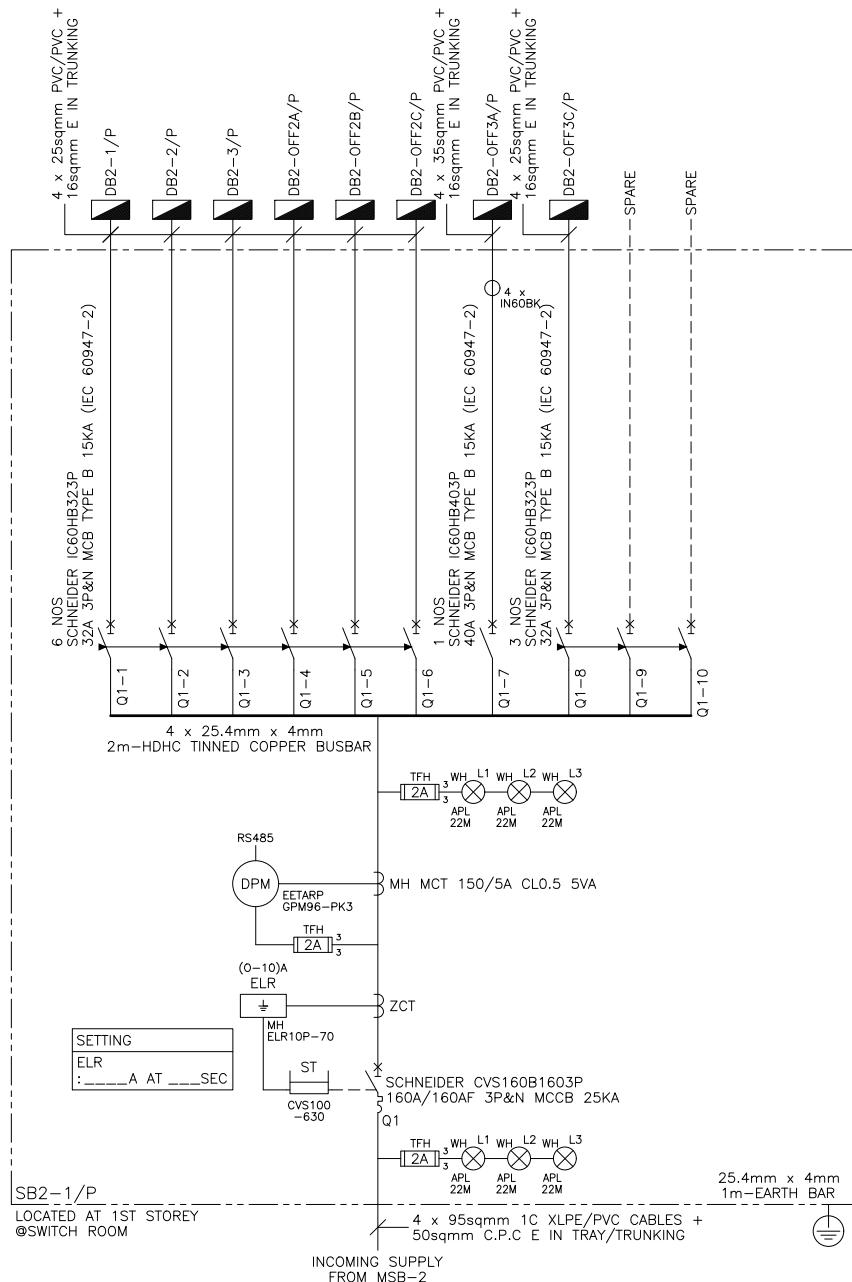
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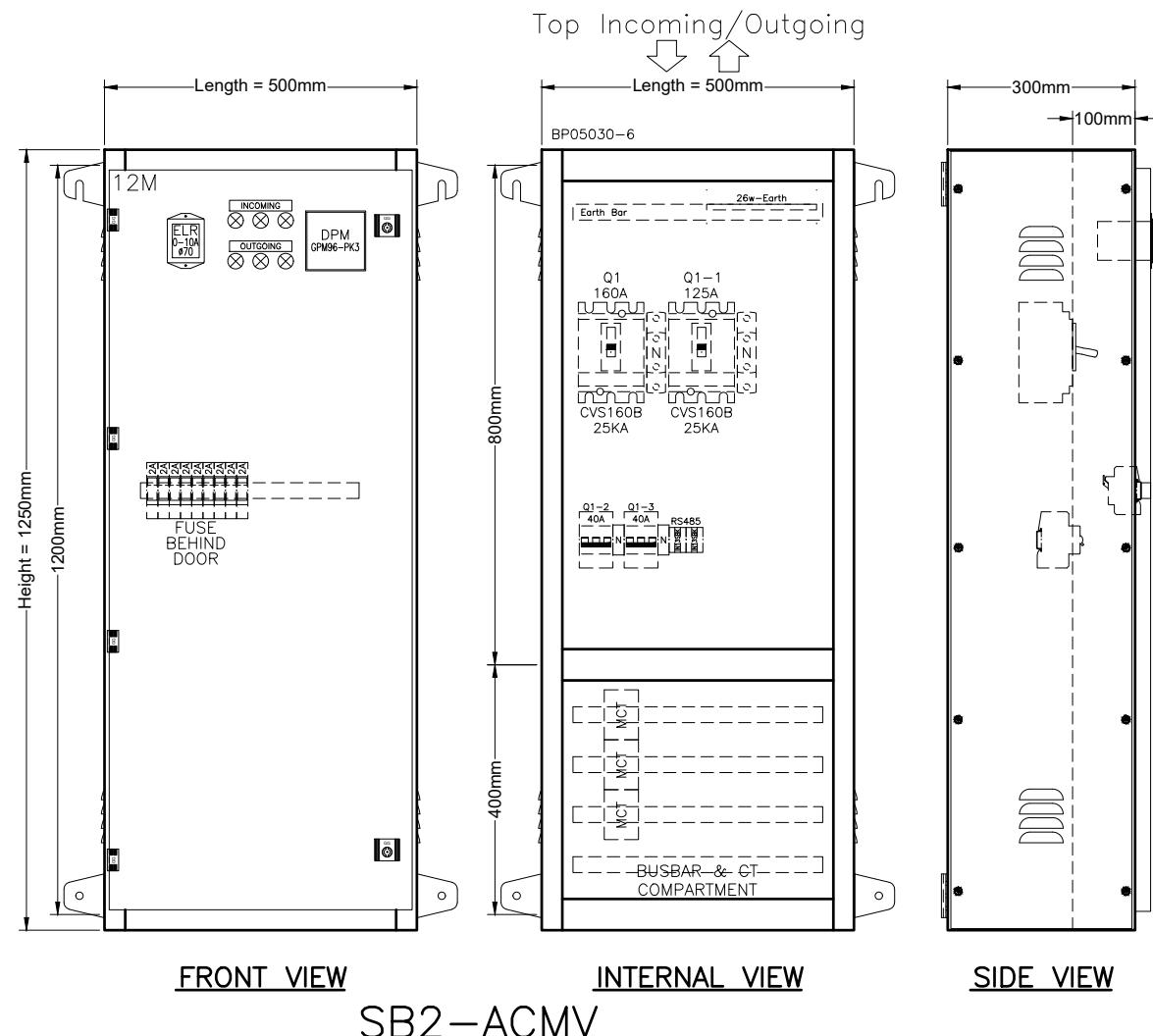
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1 2 3 4 5 6 7 8



FRONT VIEW

INTERNAL VIEW

SIDE VIEW

SB2-ACMV

WM0250 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO. AMENDMENTS

DATE DRAWN BY : RAKSH

DATE : 30.09.23

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

CHECKED BY :

DATE :

OWNER : DSTA

REF :

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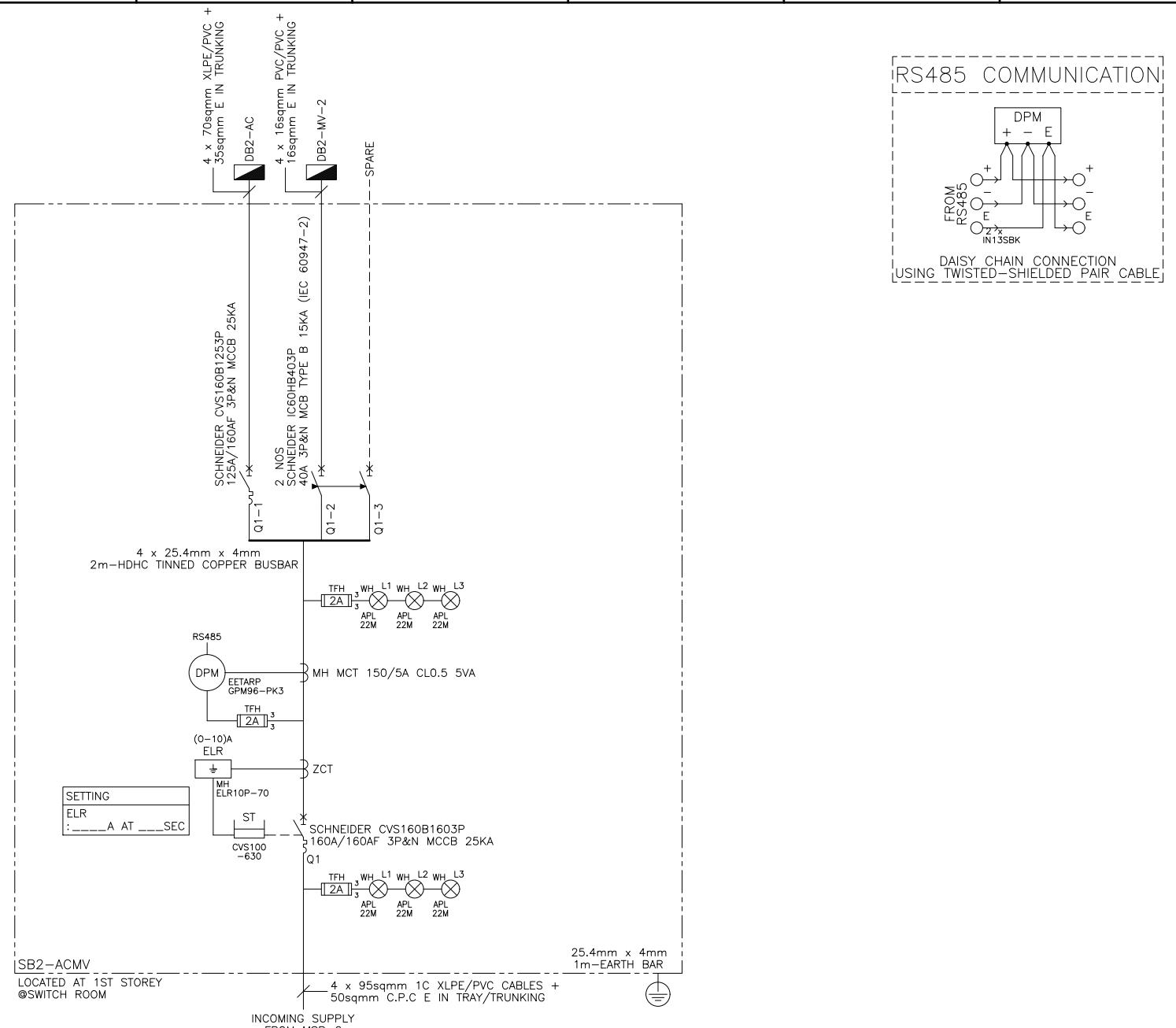
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DWG NO. : PN-21-01366-23-04604-0009-L

Gathergates
Power Up Your World

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8



PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

CONSULTANT :

OWNER : DSTA

REV. NO. AMENDMENTS

DATE DRAWN BY : RAKSH

DATE : 30.09.23

GATHERGATES SWITCHGEAR PTE LTD

CHECKED BY :

DATE :

REF :

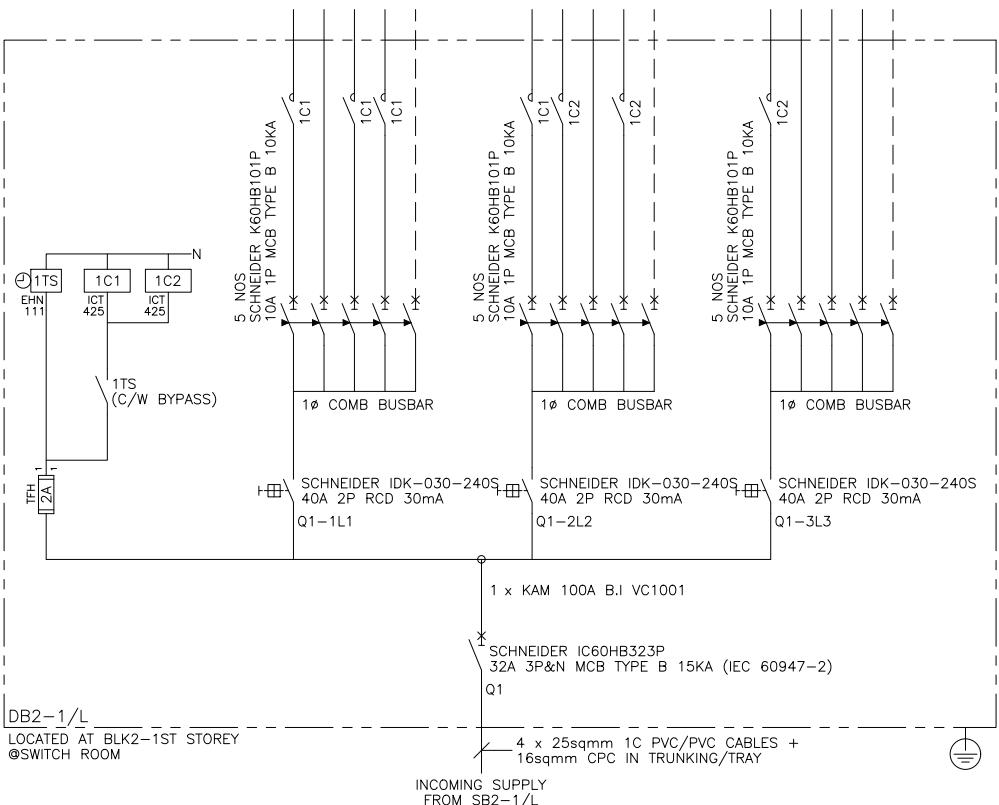
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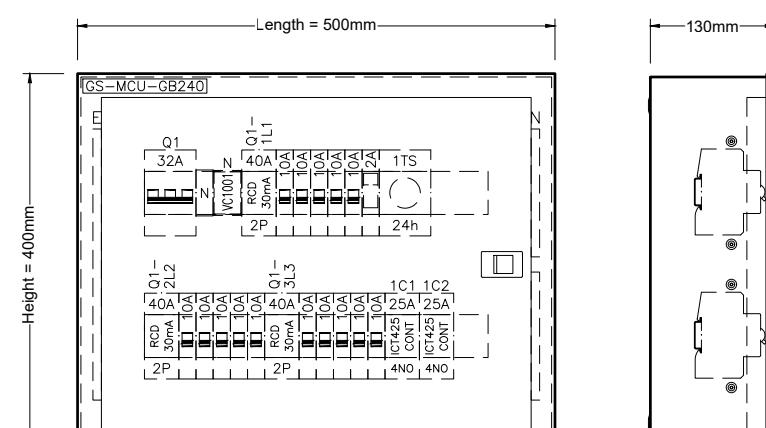
Gathergates
Power Up Your World

1 2 3 4 5 6 7 8

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5 6 7 8



DB2-1/L

MCU-2R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO. AMENDMENTS

DATE :

DRAWN BY : RAKSH

DATE : 30.09.23

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

01 ES-2023-04604-A-1 (VELU)

28.11.23

CHECKED BY :

DATE :

REF : SCALE : 1:8/A4

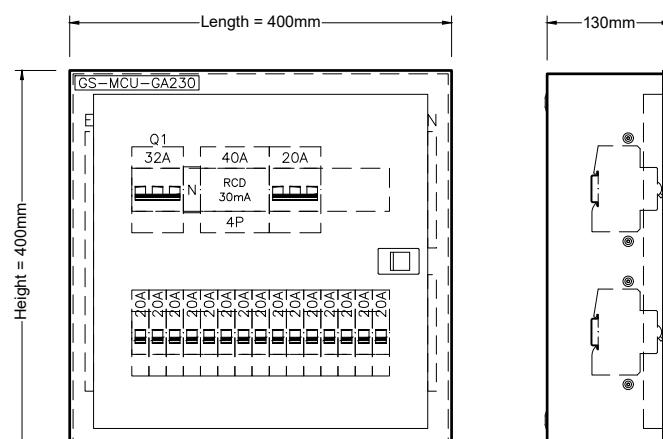
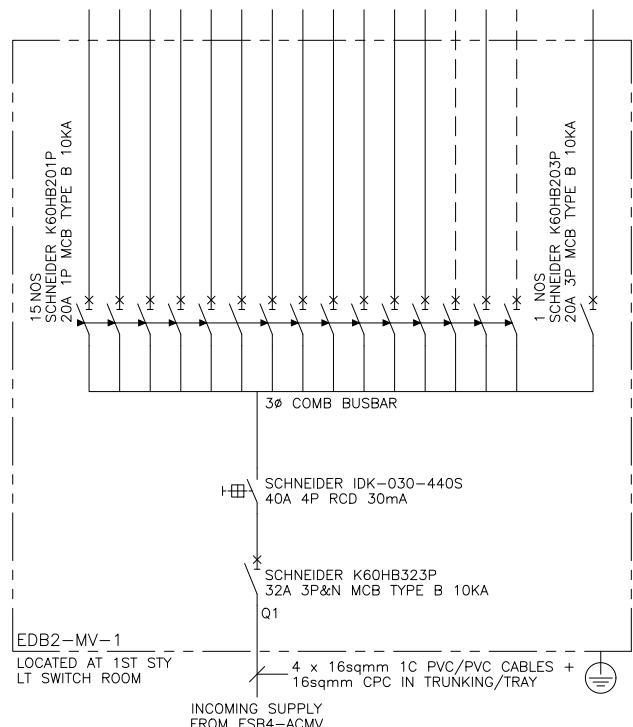
DRAWING TITLE : DB2-1/L

OWNER : DSTA

DWG NO. : PN-21-01366-23-04604-0010-SL

Gathergates
Power Up Your World

1 2 3 4 5 6 7 8



EDB2-MV-1

MCU-2R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO. AMENDMENTS

DATE DRAWN BY : MAYURI

DATE : 30.09.23

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

CHECKED BY : DATE :

REF : SCALE : 1:8/A4

DRAWING TITLE : EDB2-MV-1

OWNER : DSTA

DWG NO. : PN-21-01366-23-04604-0011-SL

Gathergates
 Power Up Your World

1 2 3 4 5 6 7 8

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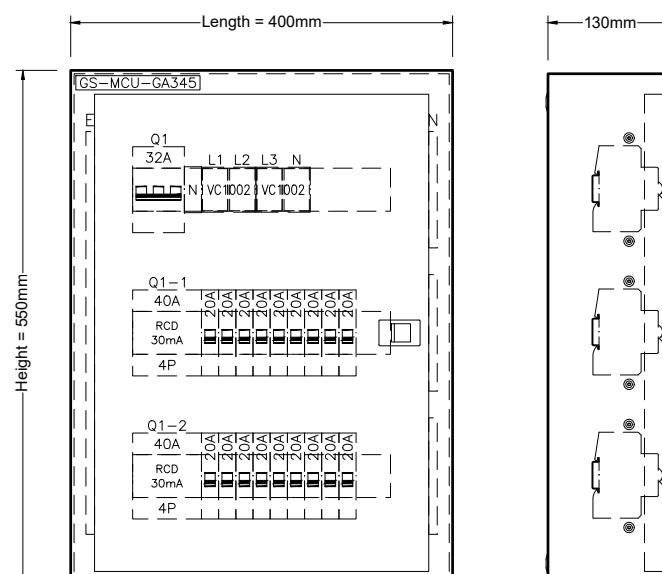
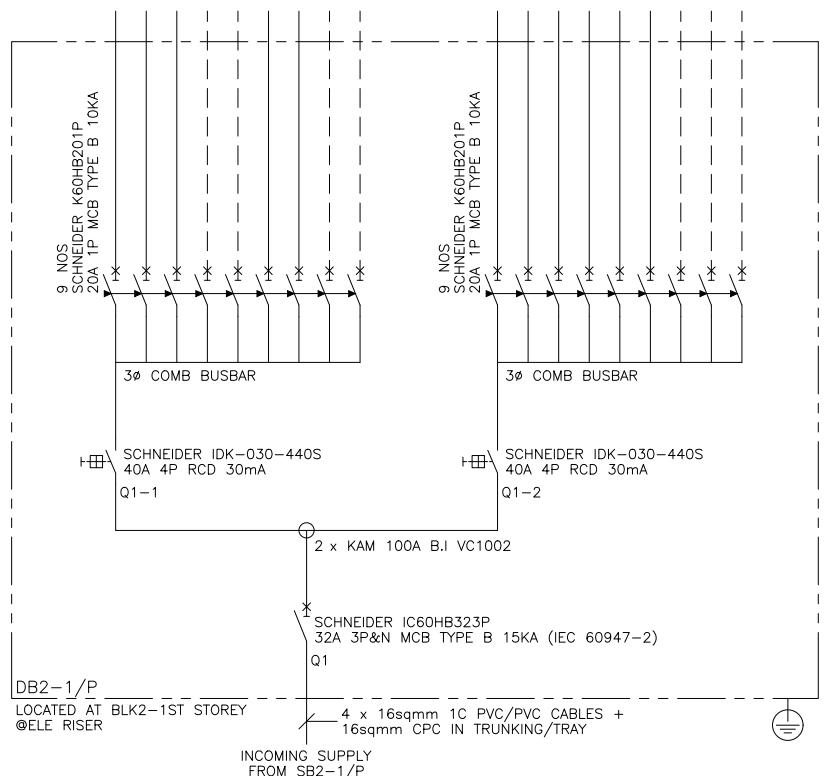
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DB2-1/P

MCU-3R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO. AMENDMENTS

DATE DRAWN BY : MAYURI

DATE : 30.09.23

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

CHECKED BY : DATE :

OWNER : DSTA

REF : SCALE : 1:8/A4

DWG NO. :PN-21-01366-23-04604-0012-SL

Gathergates
Power Up Your World

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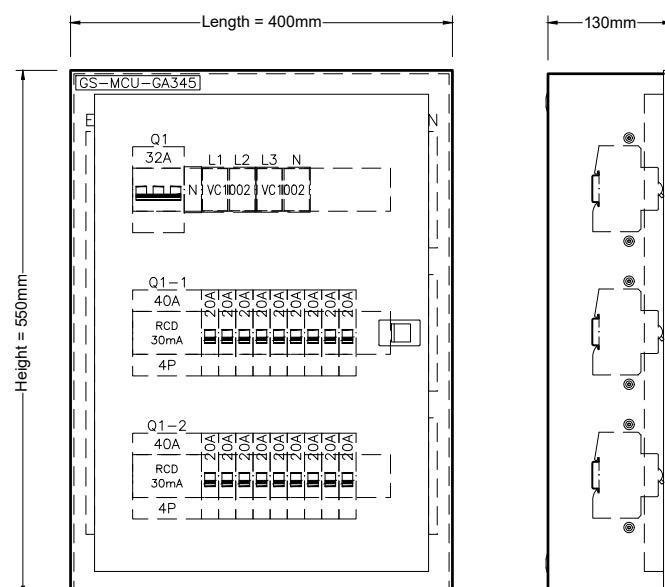
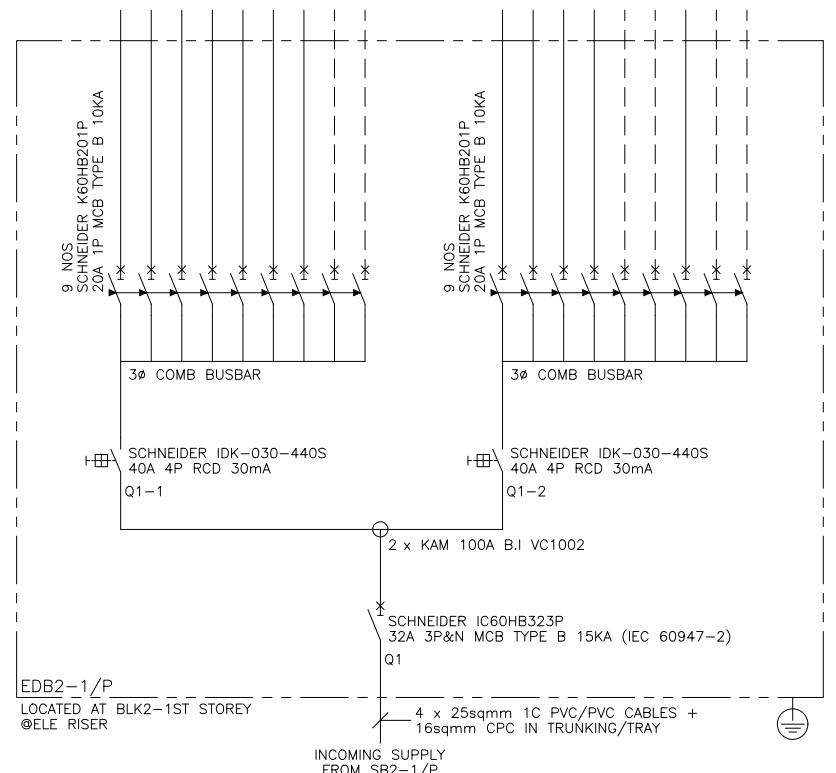
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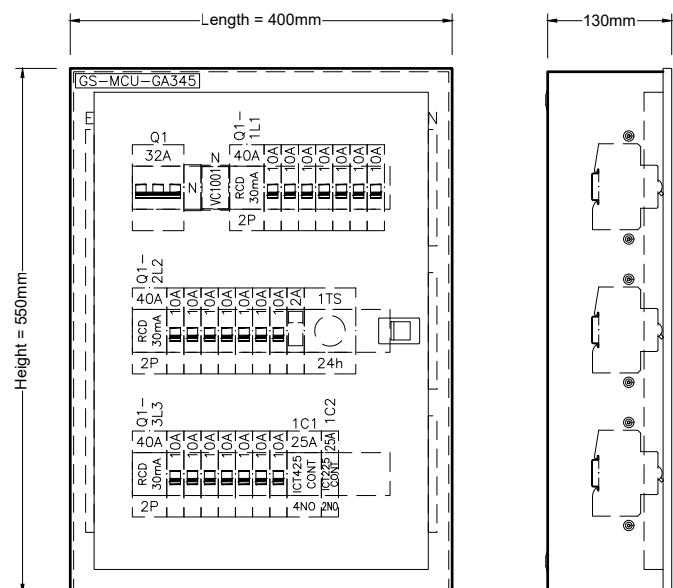
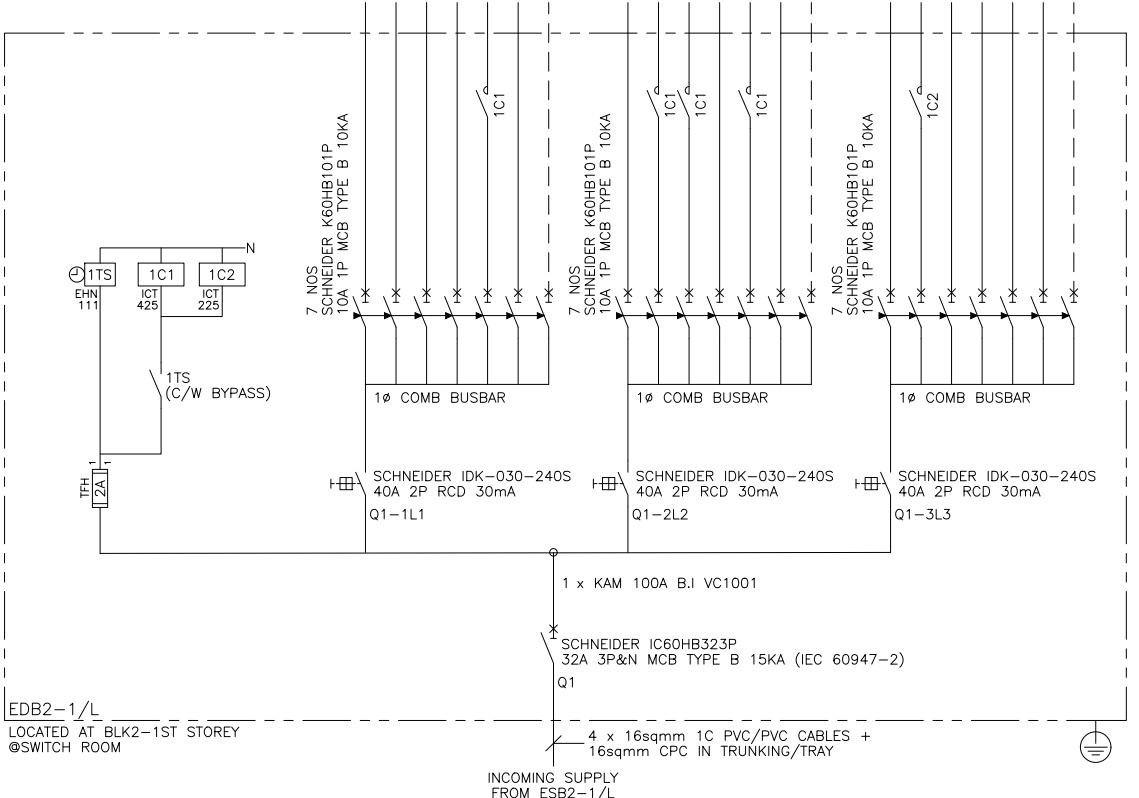
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EDB2-1/P

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD	CLIENT :	CHIN SENG ENGINEERING (S) PTE LTD	REV. NO.	AMENDMENTS	DATE	DRAWN BY :	MAYURI	DATE : 30.09.23	GATHERGATES SWITCHGEAR PTE LTD
	CONSULTANT :				CHECKED BY :		DATE :		
	OWNER :	DSTA			REF :		SCALE :	1:8/A4	
DRAWING TITLE : EDB2-1/P					DWG NO.:	PN-21-01366-23-04604-0013-SL			Gathergates Power Up Your World



EDB2-1/L

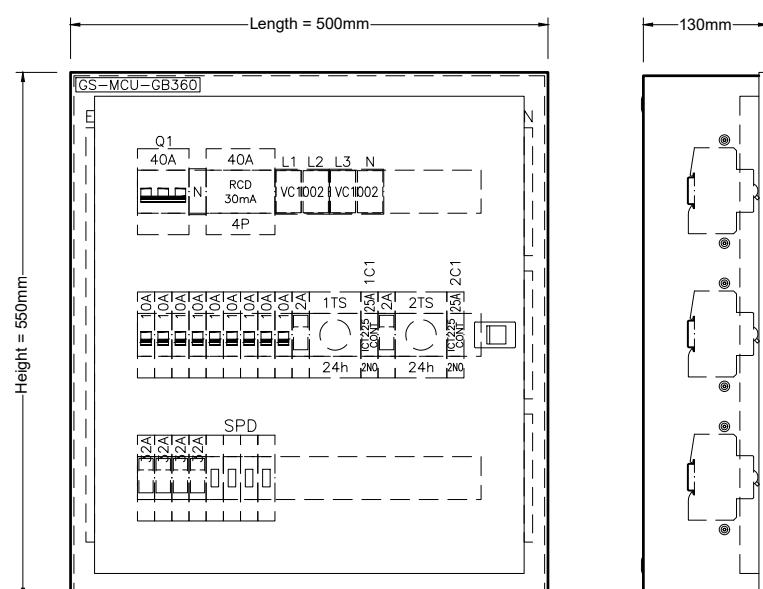
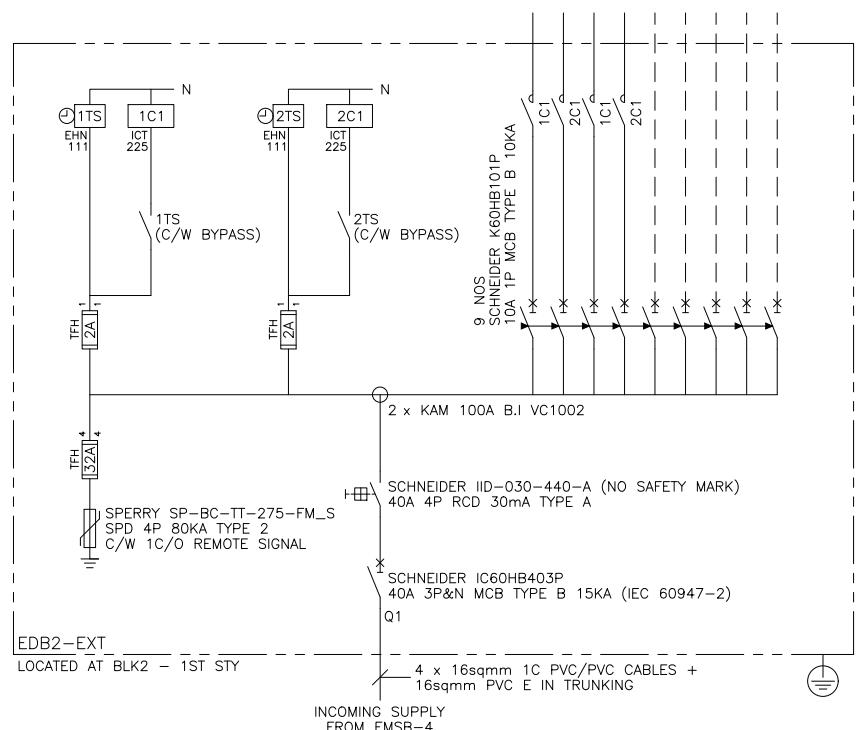
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@SWITCH ROOM

INCOMING SUPPLY
FROM ESB2-1/L

REV. NO.	AMENDMENTS	DATE	DRAWN BY :	RAKSH	DATE : 30.09.23	GATHERGATES SWITCHGEAR PTE LTD
01	ES-2023-04604-A-1 (VELU)	28.11.23	CHECKED BY :		DATE :	
			REF :		SCALE : 1:8/A4	
			DWG NO.	.PN-21-01366-23-04604-0014-SL		

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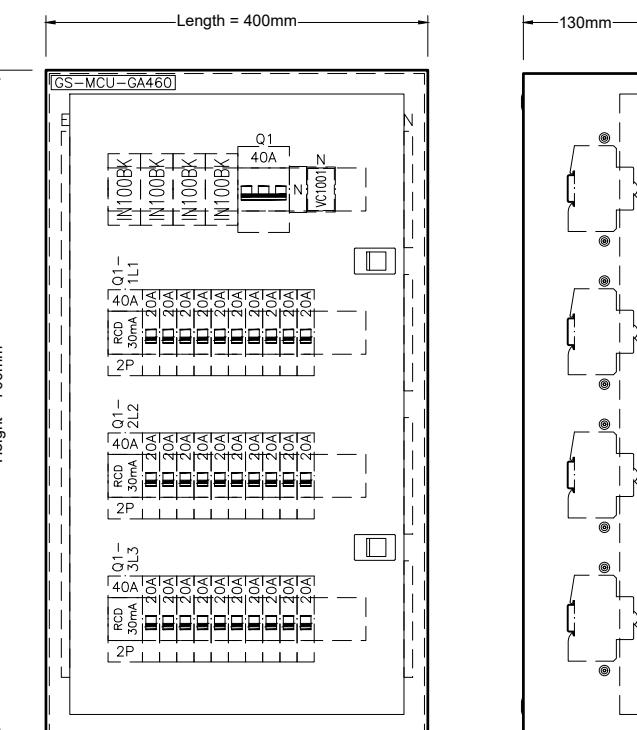
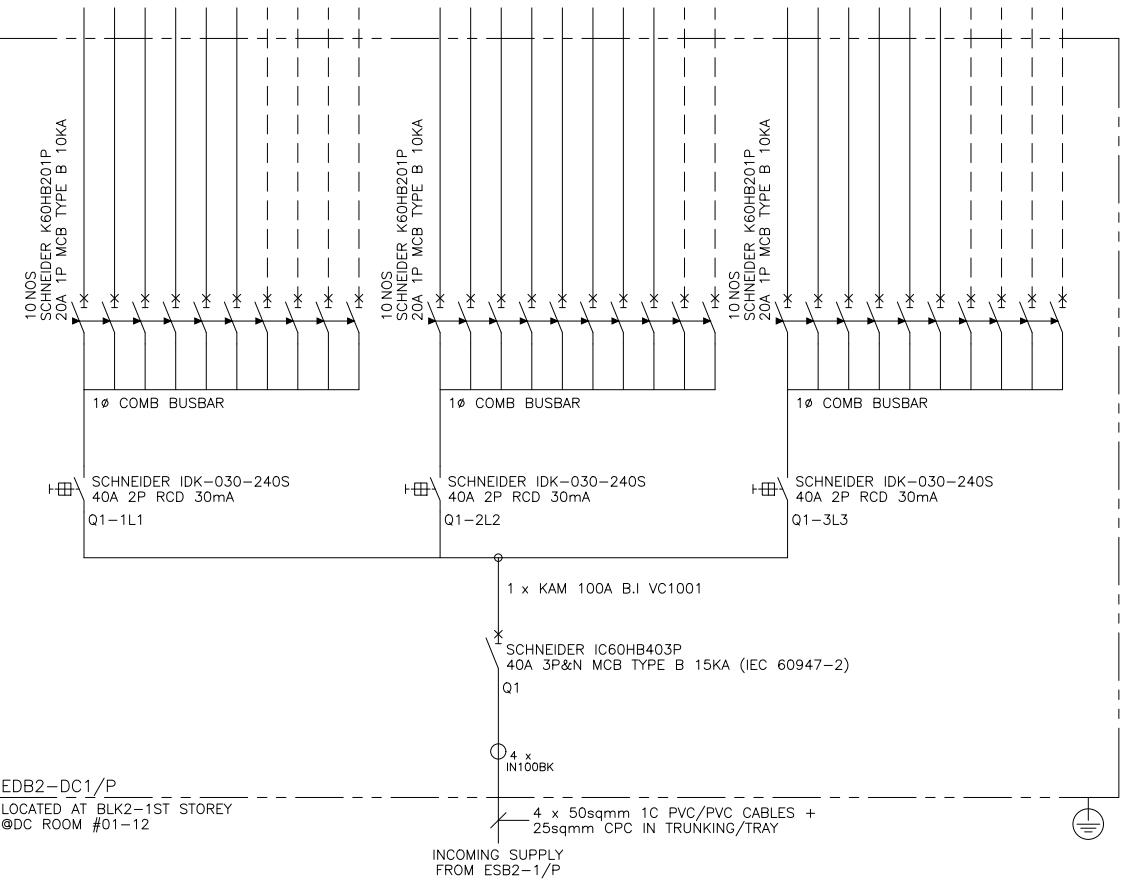


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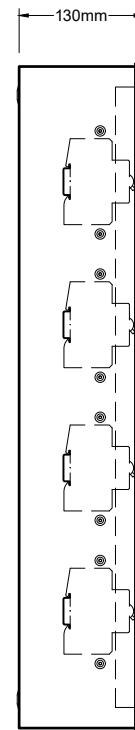
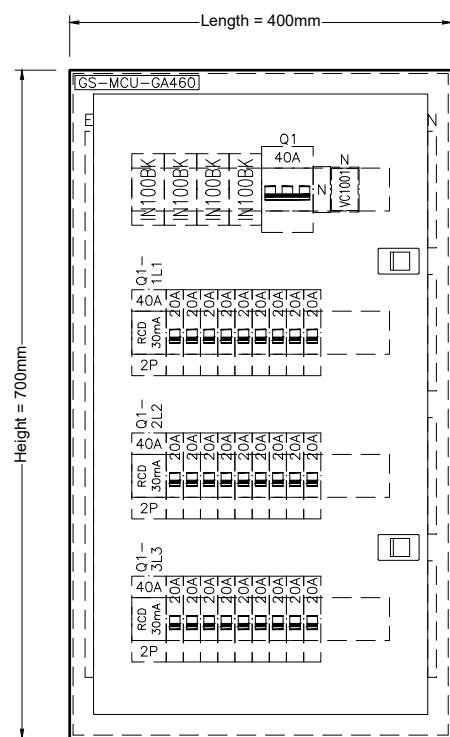
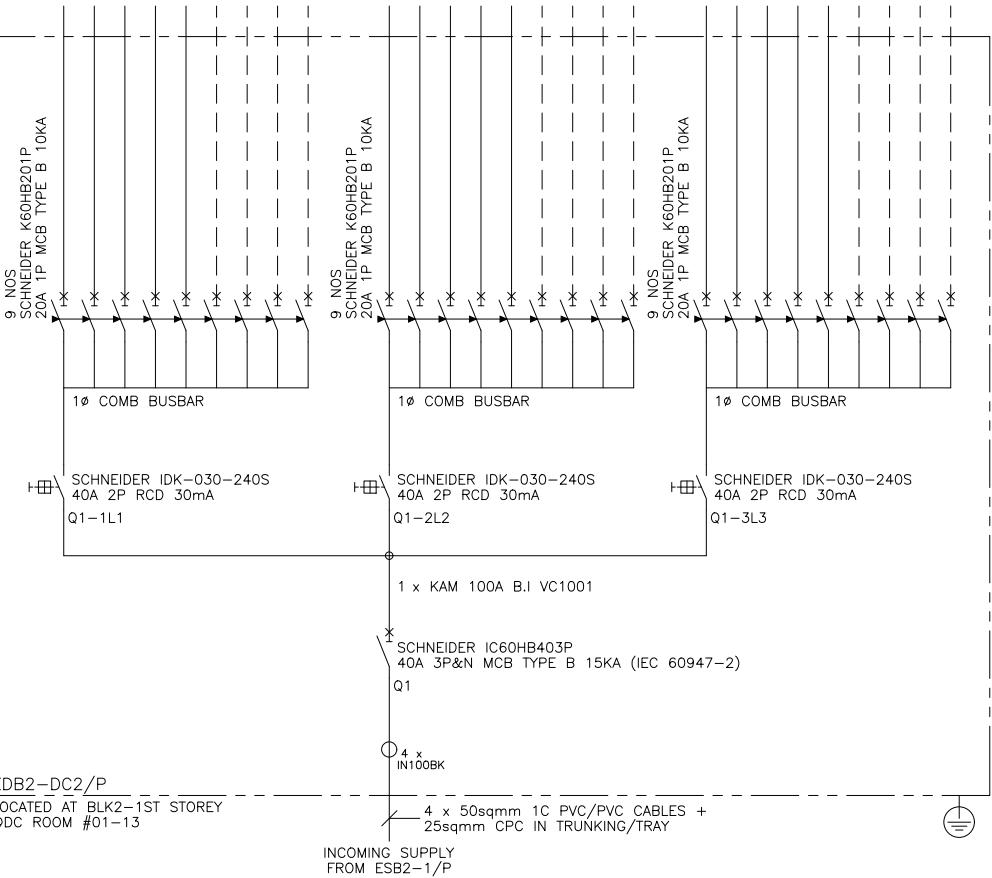
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B
C
D
E
F

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD	CLIENT : CHIN SENG ENGINEERING (S) PTE LTD	REV. NO.	AMENDMENTS	DATE	DRAWN BY : MAYURI	DATE : 30.09.23	GATHERGATES SWITCHGEAR PTE LTD
CONSULTANT :					CHECKED BY :	DATE :	
OWNER : DSTA					REF :	SCALE : 1:8/A4	
DRAWING TITLE : EDB2-EXT					DWG NO. :PN-21-01366-23-04604-0015-SL		

1 2 3 4 5 6 7 8



EDB2-DC1/P



EDB2-DC2/P

MCU-4R | 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : SHIN SENG ENGINEERING (S) PTE LTD

2024 RELEASE UNDER E.O. 14176

REV. NO. AMEND.

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DATA

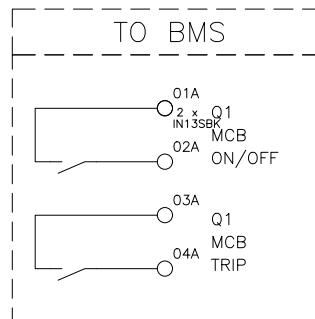
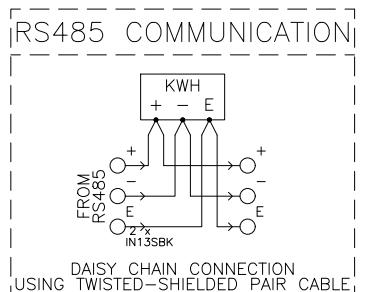
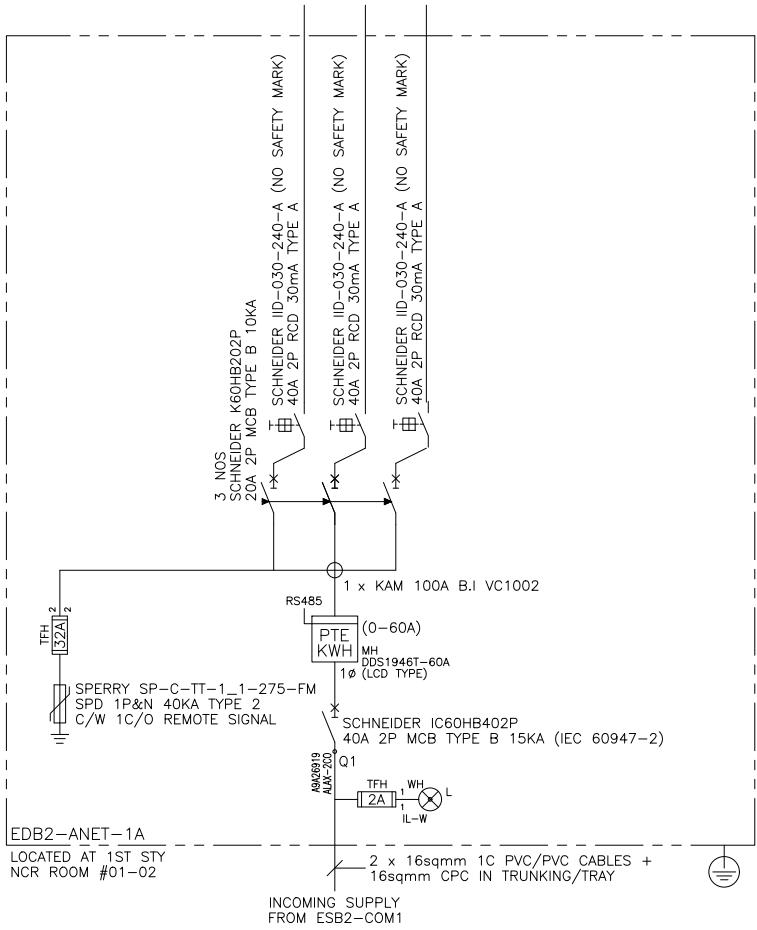
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Gathergates

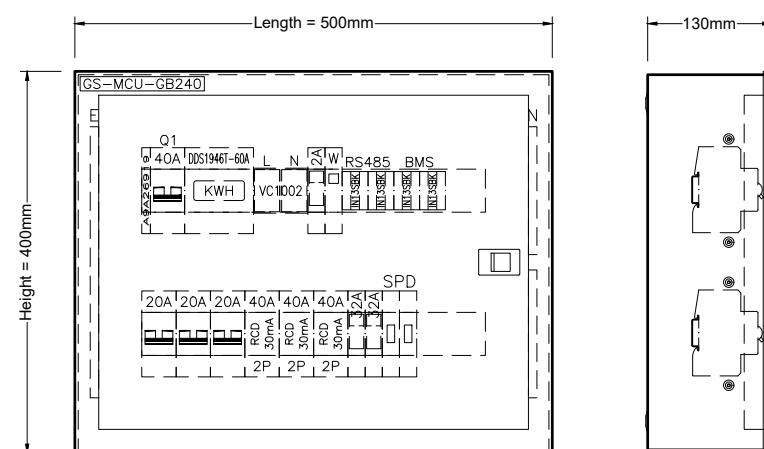
Power Up Your World

1 2 3 4 5 6 7 8



TYPICAL FOR THE BELOW

S/N	DB NAME	QTY
1	EDB2-ANET-1A	1
2	EDB2-ANET-1B	1



MCU-2R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO. AMENDMENTS

DATE

DRAWN BY : MAYURI

DATE : 30.09.23

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

01 ES-2023-04604-A-1 (VELU)

28.11.23

CHECKED BY :

DATE :

OWNER : DSTA

REF :

SCALE : 1:8/A4

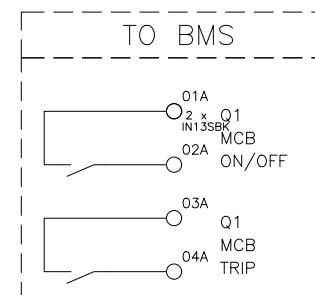
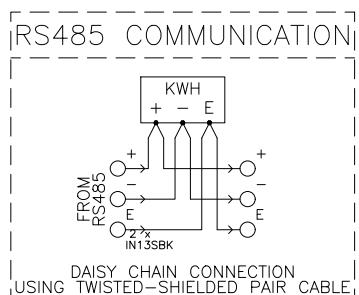
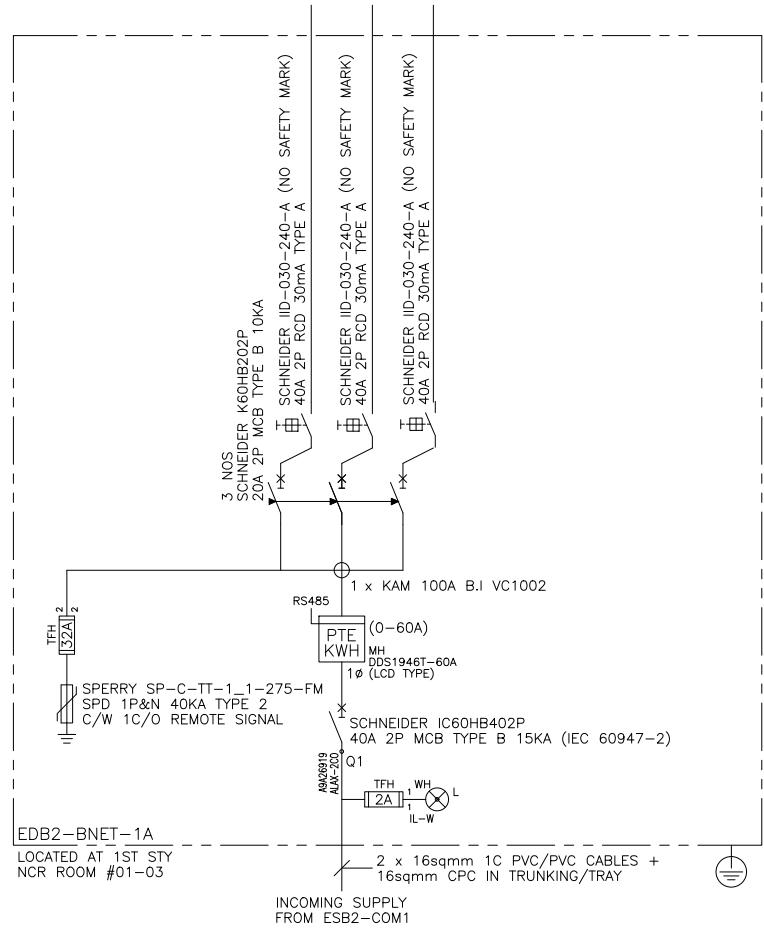
DWG NO. :PN-21-01366-23-04604-0018-SL

Gathergates
Power Up Your World

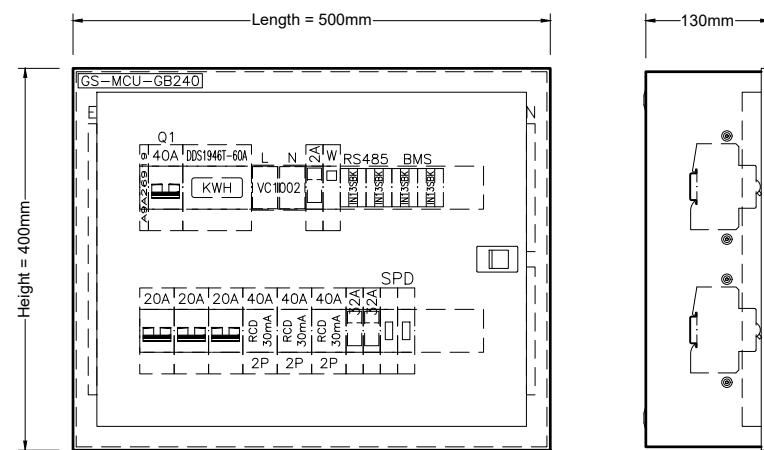
1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

A B C D E



TYPICAL FOR THE BELOW		
S/N	DB NAME	QTY
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2	EDB2-BNET-1B	1



<TOTAL: 2 NOS>

MCU-2R | 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO.	AMENDMENTS
----------	------------

DATE DRAWN BY : MAY

DATE : 30.09.23 | SATHI SAI S. SHIVAGURU | Page 17

Table 1. Summary of the main characteristics of the four groups.

CHECKED BY : _____

GATHERGATES SWITCHGEAR PTY LTD

ANSWER

SEARCHED BY:

Cathartidae

Table 1. Summary of the main characteristics of the four groups.

REF ID: A112345

Gatiergates

ANSWER

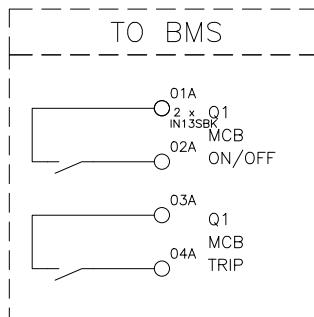
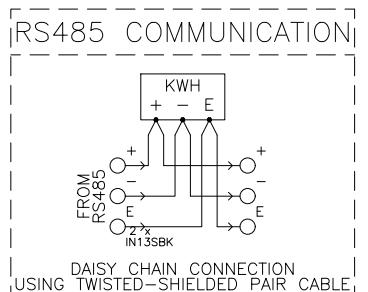
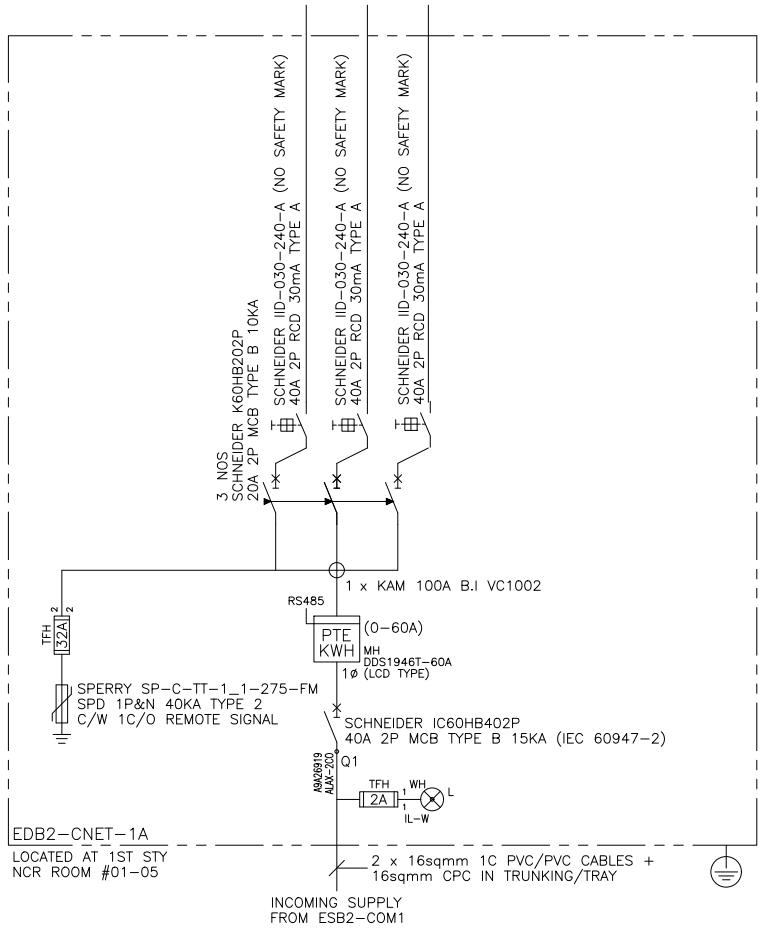
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5-23-04604-0019-SL Power Up Your World

Gathergates

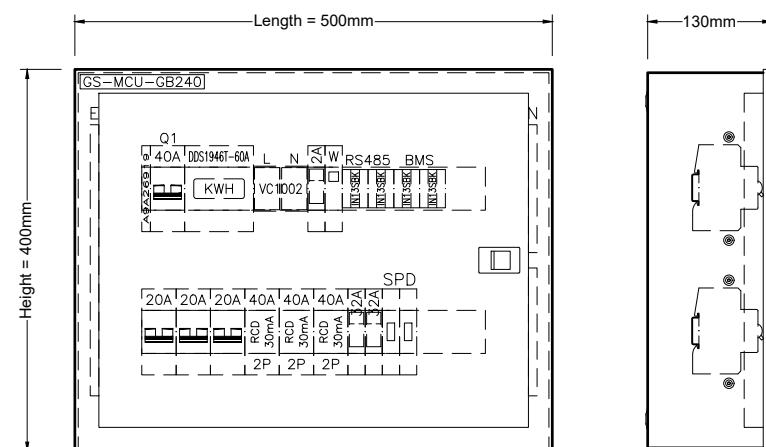
Power Up Your World

1 2 3 4 5 6 7 8



TYPICAL FOR THE BELOW

S/N	DB NAME	QTY
1	EDB2-CNET-1A	1
2	EDB2-CNET-1B	1



<TOTAL: 2 NOS>

MCU-2R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO.

AMENDMENTS

DATE

DRAWN BY :

DATE : 30.09.23

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

CHECKED BY :

DATE :

OWNER : DSTA

REF :

SCALE : 1:8/A4

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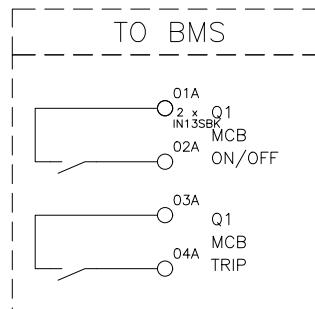
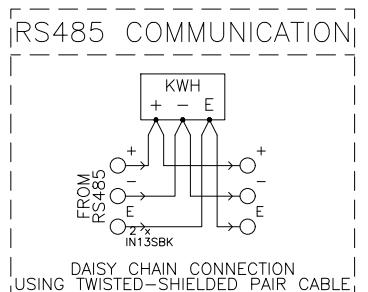
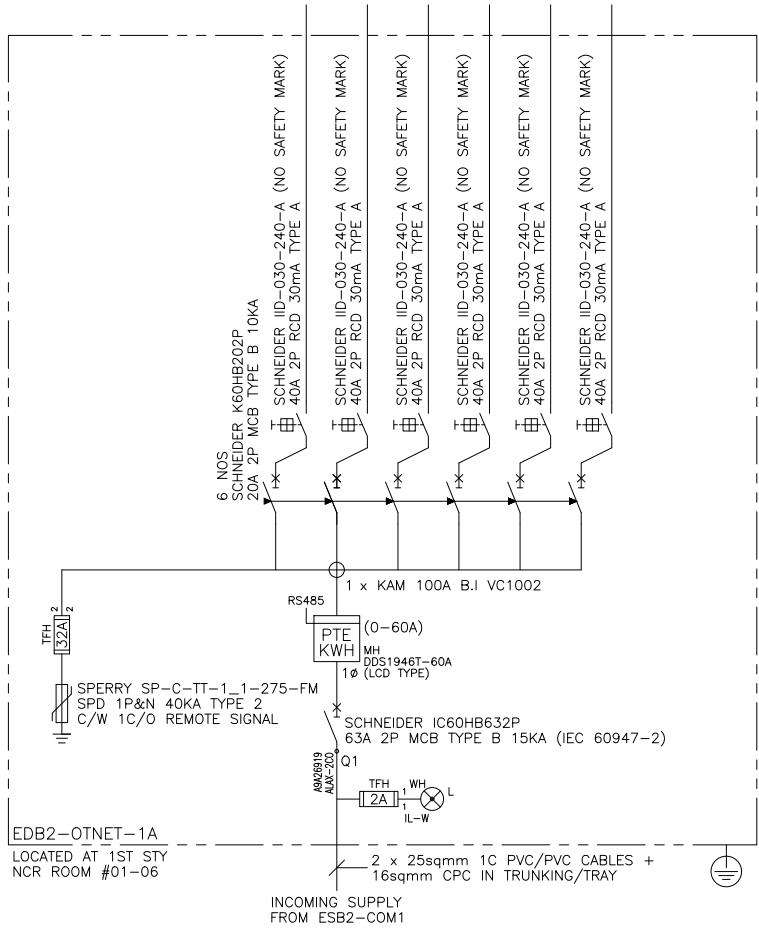
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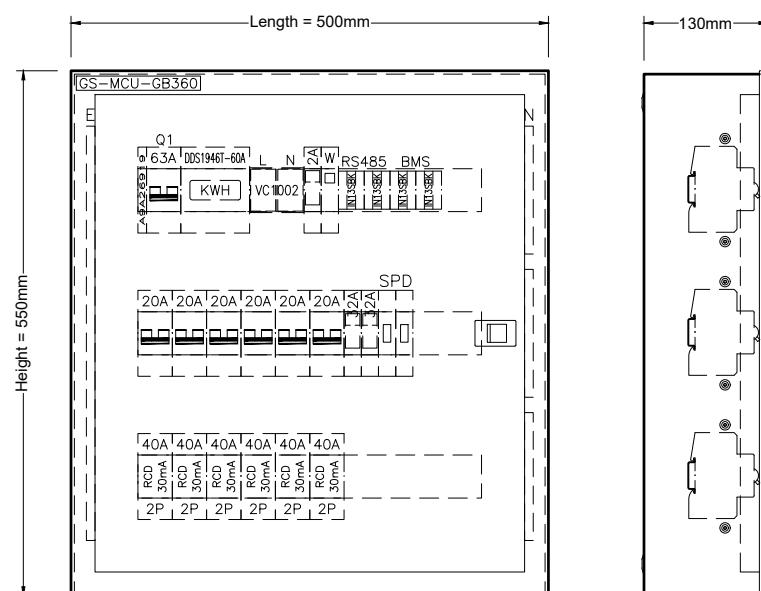
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Gathergates
Power Up Your World

1 2 3 4 5 6 7 8



TYPICAL FOR THE BELOW		
S/N	DB NAME	QTY
1	EDB2-OTNET-1A	1
2	EDB2-OTNET-1B	1



<TOTAL: 2 NOS>

MCU-3R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

DRAWING TITLE : EDB2-OTNET-1A

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

CONSULTANT :

OWNER : DSTA

REV. NO. AMENDMENTS

01 ES-2023-04604-A-4 (RAKSH)

DATE : 01.12.23

CHECKED BY :

DRAWN BY : MAYURI

DATE : 30.09.23

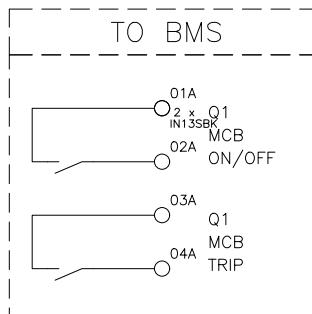
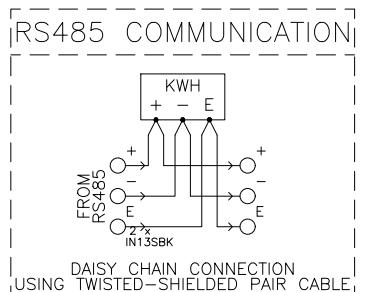
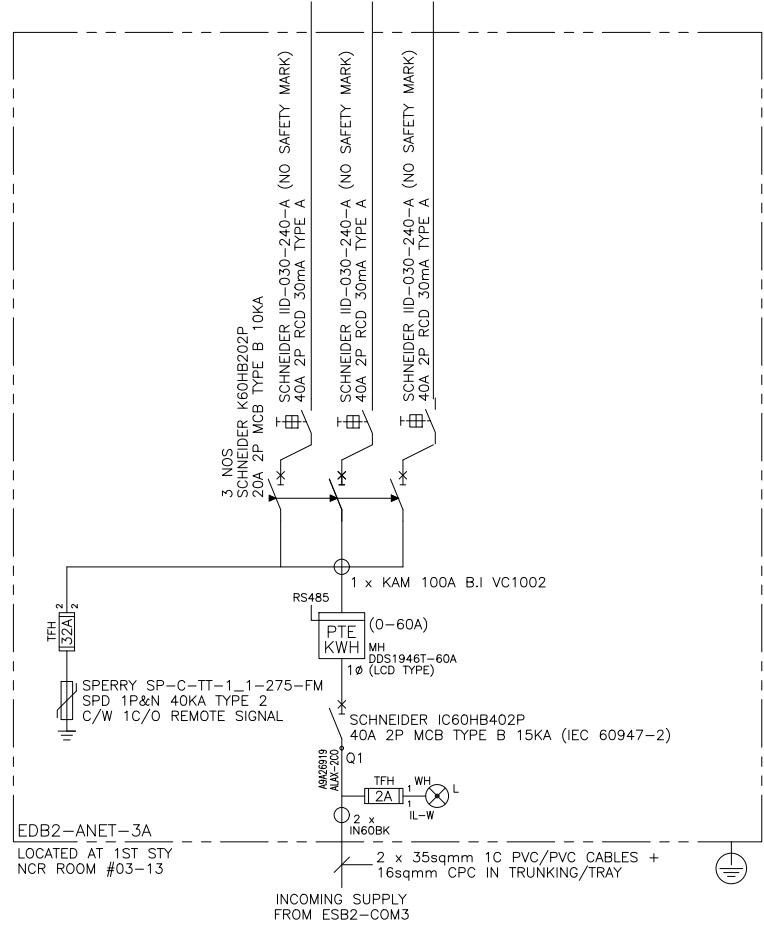
GATHERGATES SWITCHGEAR PTE LTD

Gathergates
Power Up Your World

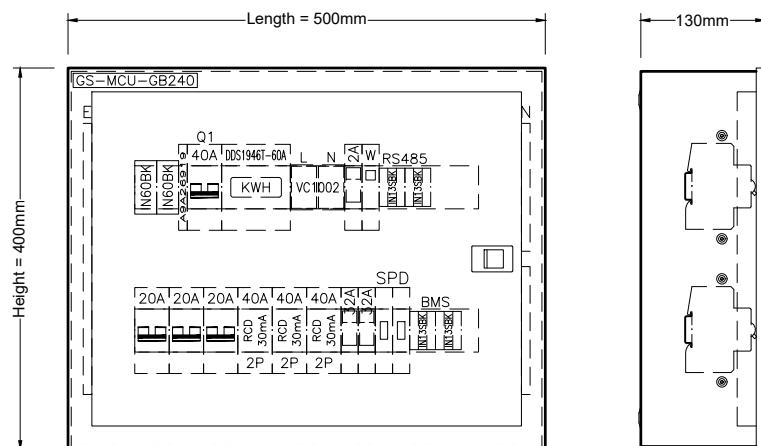
1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

A B C D E



TYPICAL FOR THE BELOW		
S/N	DB NAME	QTY
1	EDB2-ANET-3A	1
2	EDB2-ANET-3B	1



<TOTAL: 2 NOS>

MCU-2R | 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO.	AMENDMENTS
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DATE DRAWN BY : MAYUR

DATE : 30.09.23 CATERGATES SWITCHGEAR PTE LTD

For more information about the study, please contact the study team at 1-800-258-4238 or visit www.cancer.gov.

CHECKED BY:

GATHERGATES SWITCHGEAR PTE LTD

For more information about the study, please contact the study team at 1-800-258-4929 or visit www.cancer.gov.

CHECKED BY :

Cathartes

REF : _____

SCALE : 1:8/A4

For more information about the study, please contact Dr. John D. Cawley at (609) 258-4626 or via email at jdcawley@princeton.edu.

DWG NO. :PN-21-01366

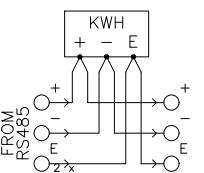
6-23-04604-0022-SL Power Up Your World

Gathergates

Power Up Your World

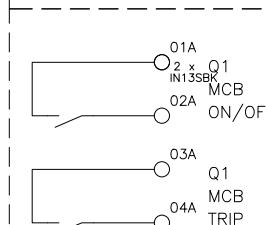
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RS485 COMMUNICATION



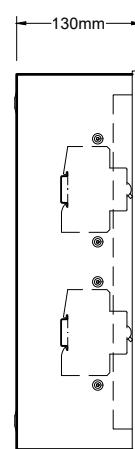
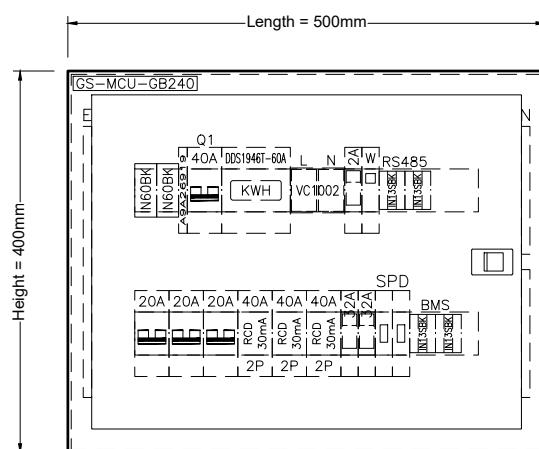
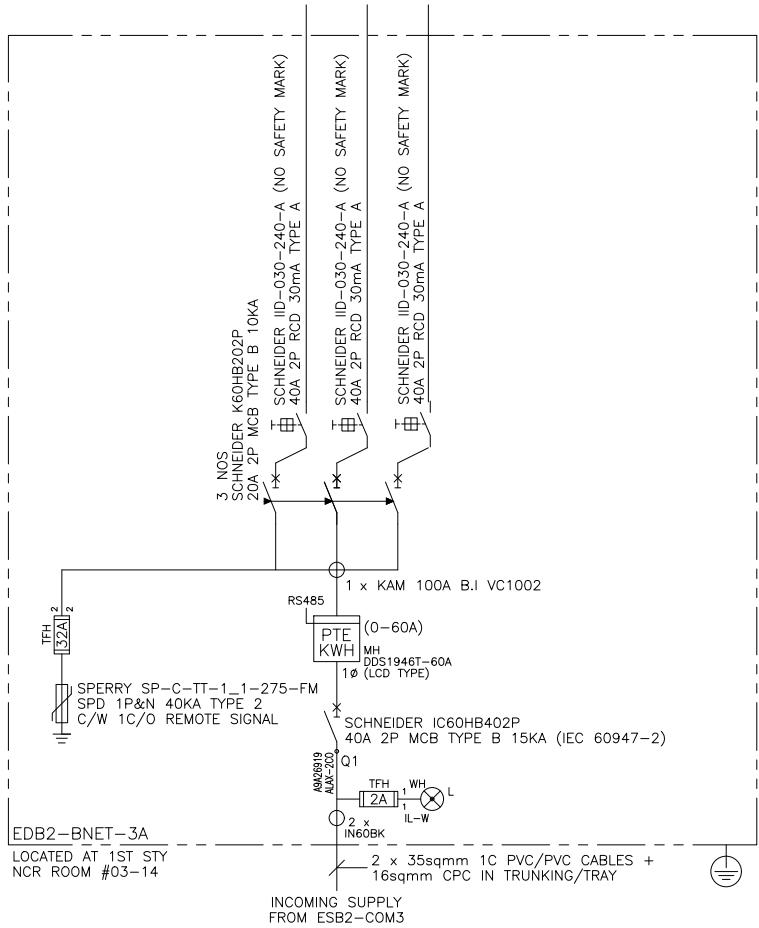
DAISY CHAIN CONNECTION
USING TWISTED-SHIELDED PAIR CABLE

TO BMS



TYPICAL FOR THE BELOW

S/N	DB NAME	QTY
1	EDB2-BNET-3A	1
2	EDB2-BNET-3B	1



<TOTAL: 2 NOS>

MCU-2R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO.

AMENDMENTS

DATE

DRAWN BY : MAYURI

DATE : 30.09.23

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

CHECKED BY :

DATE :

OWNER : DSTA

REF :

SCALE : 1:8/A4

DST

DWG NO. : PN-21-01366-23-04604-0023-SL

Gathergates
Power Up Your World

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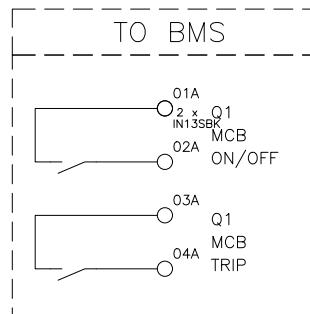
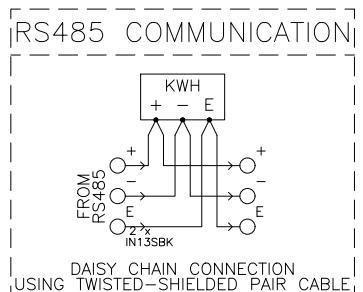
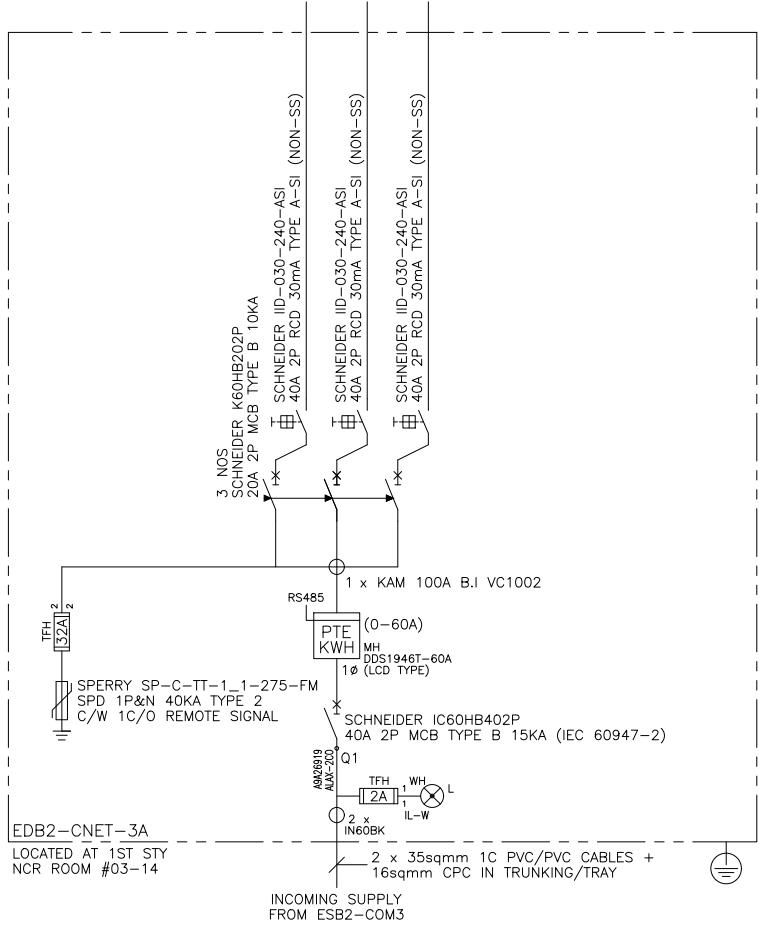
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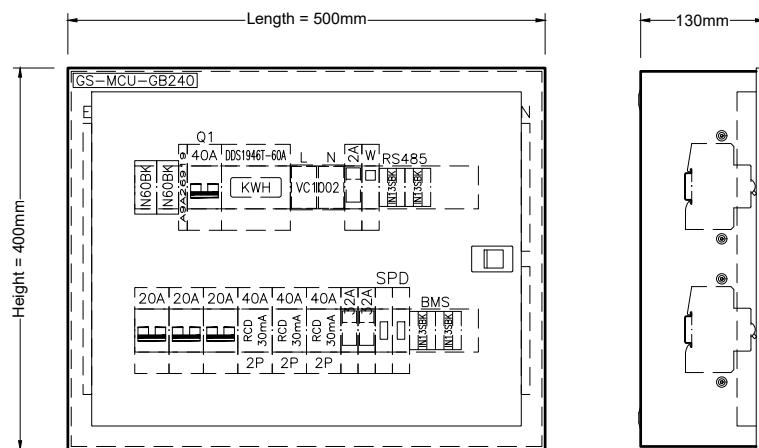
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1 2 3 4 5 6 7 8



S/N	DB NAME	QTY
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2	EDB2-CNET-3B	1



<TOTAL: 2 NOS>

MCU-2R | 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO.	AMENDMENTS
----------	------------

DATE DRAWN BY : MAY

DATE : 30.09.23 GATHERGATES SWITCHGEAR PTE LTD

01 ES-2023-04604-A-4 (RAKSH)

01.12.23 CHECKED BY :

GATHERGATES SWITCHGEAR LTD

02 ES-2023-04604-A-17 (RAKS)

CHECKED BY : _____

DATE : _____

03 ES-2023-04604-A-18 (RAKS)

REF : 24.01.24

SCALE : 1:8/A4

Table 1. Summary of the main characteristics of the four groups of patients.

DWG NO. :PN-21-01

6-23-04604-0024-SL

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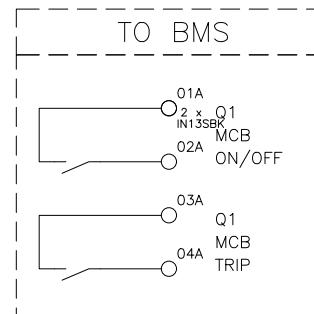
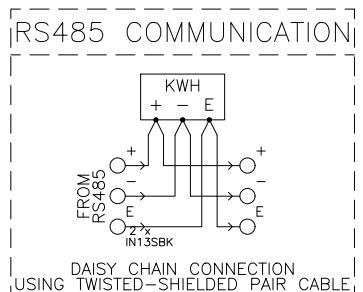
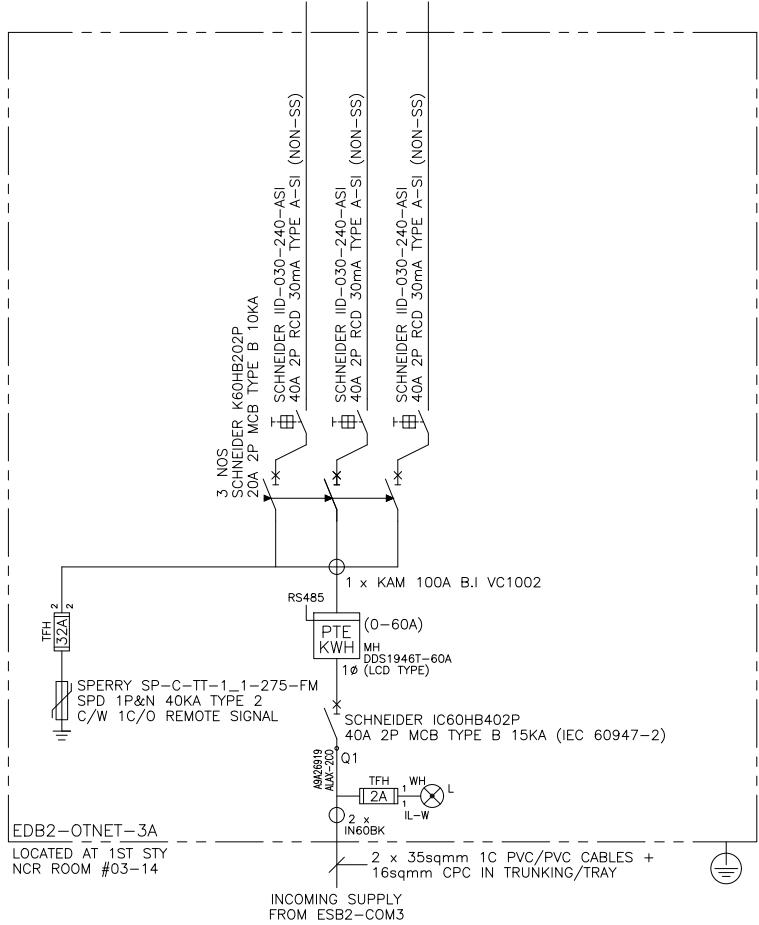
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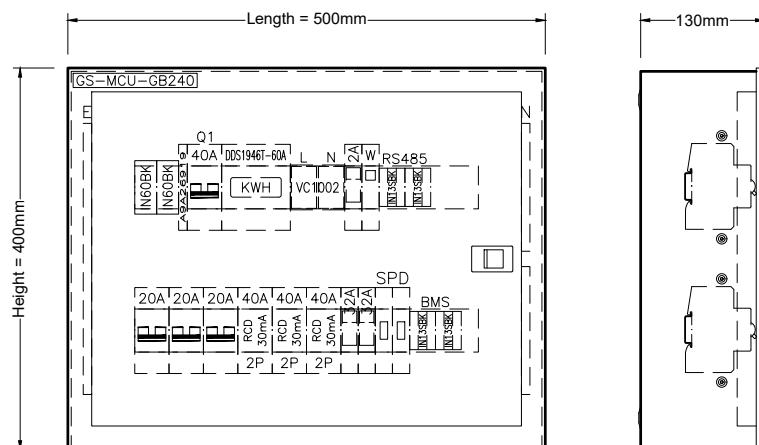
Gathergates

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1 2 3 4 5 6 7 8



S/N	DB NAME	QTY
1	EDB2-OTNET-3A	1
2	EDB2-OTNET-3B	1



<TOTAL: 2 NOS>

MCU-2R | 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SFMBAWANG ROAD

CHIN SENG ENGINEERING (S) PTE LTD

	REV. NO.	AMENDMENTS
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DATE DRAWN BY : MAYI

DATE : 30.09.23 | SATHI SAGAR SHIVAJI NAGAR, BENGALURU

01 ES-2023-04604-A-4 (RAKSH)

BRWBN BY : MAYA

DATE : 08.05.23 GATHERGATES SWITCHGEAR PTE LTD

02 ES-2023-04604-A-17 (RAKSH)

CHECKED BY : _____

DATE : 20.11.11

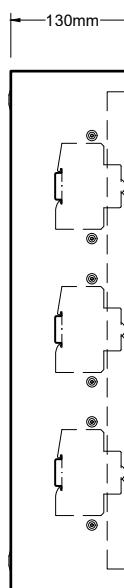
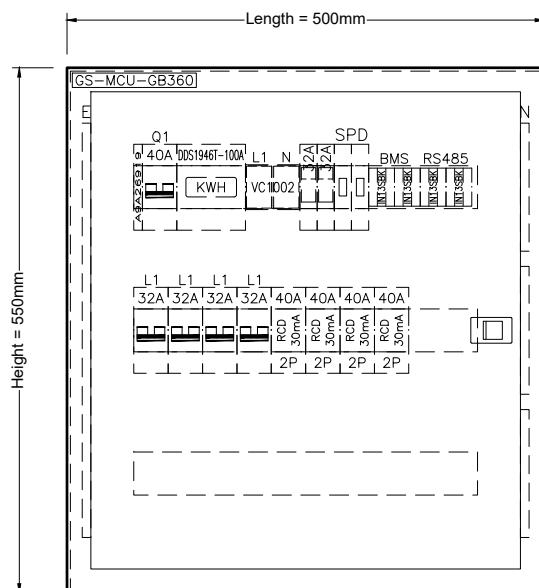
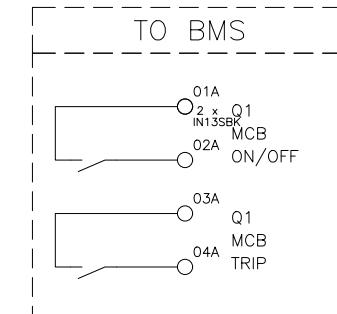
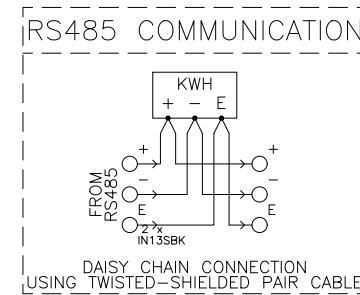
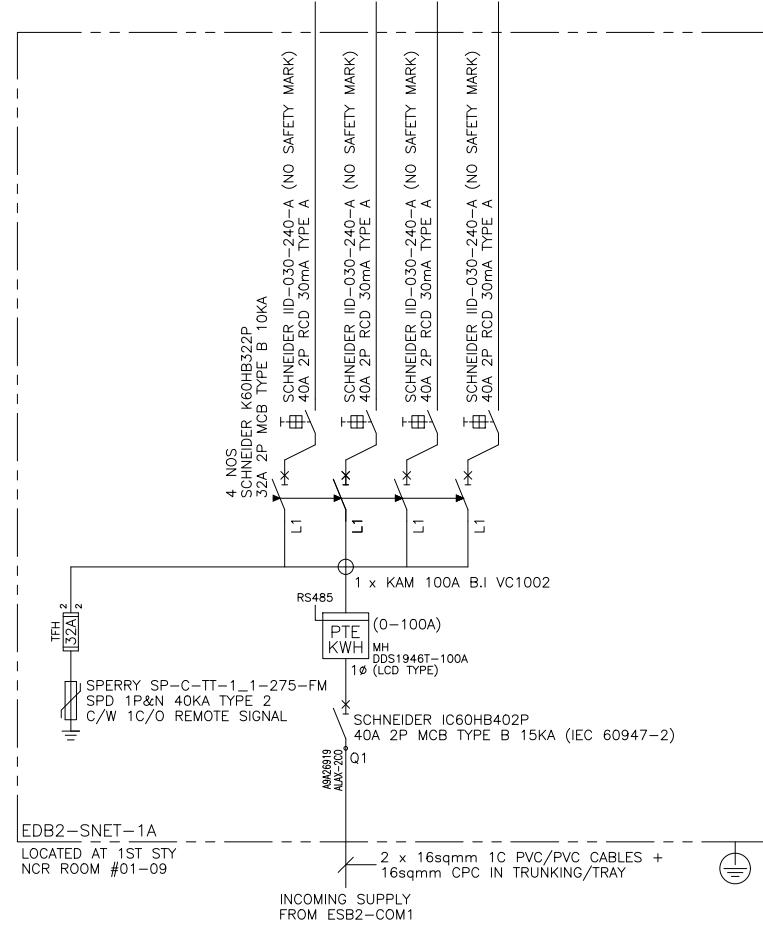
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SCALE : 1:8/A4

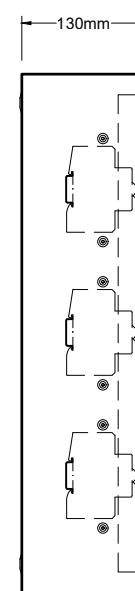
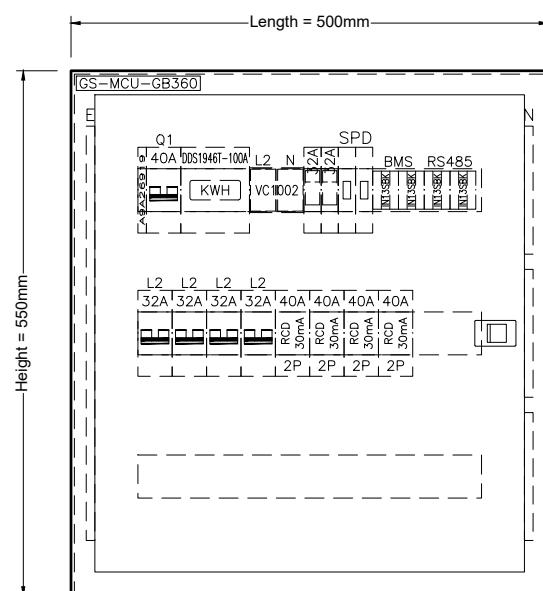
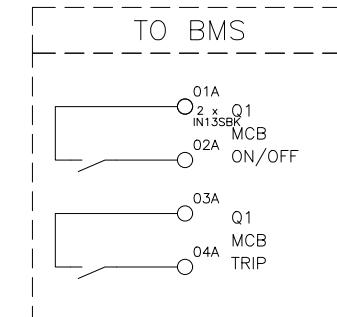
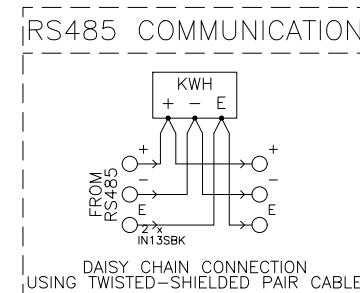
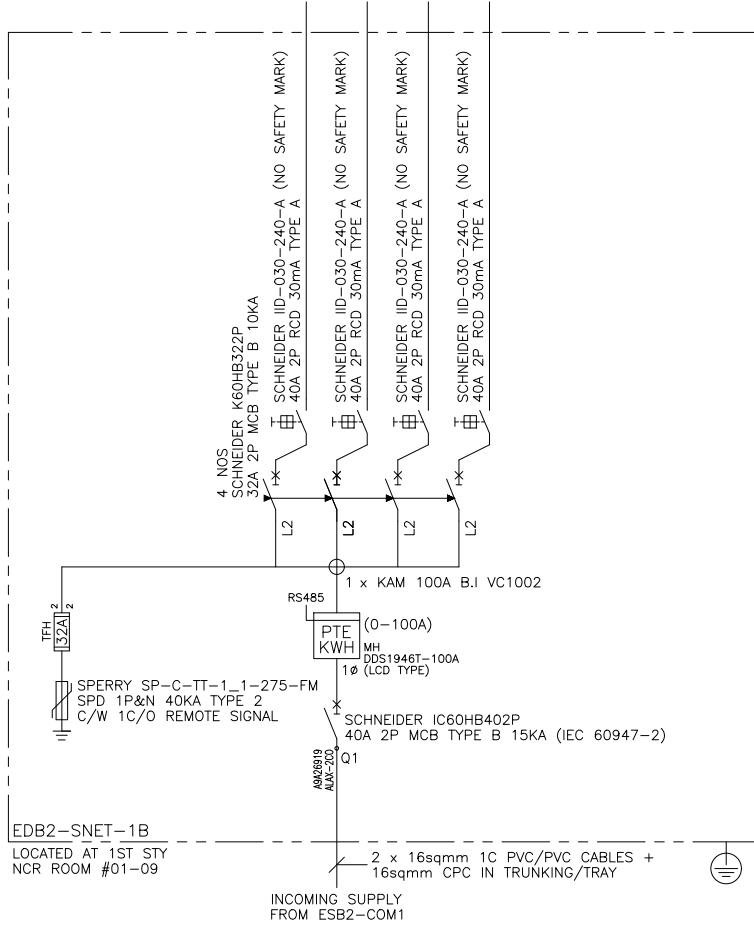
Gathergates

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EDB2-SNET-1A

1 2 3 4 5 6 7 8



EDB2-SNET-1B

MCU-3R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO. AMENDMENTS

DATE

DRAWN BY :

DATE : 30.09.23

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

01.06.24

CHECKED BY :

DATE :

OWNER : DSTA

REF :

SCALE : 1:8/A4

DST

DWG NO. :

PN-21-01366-23-04604-0027-SL

Gathergates
Power Up Your World

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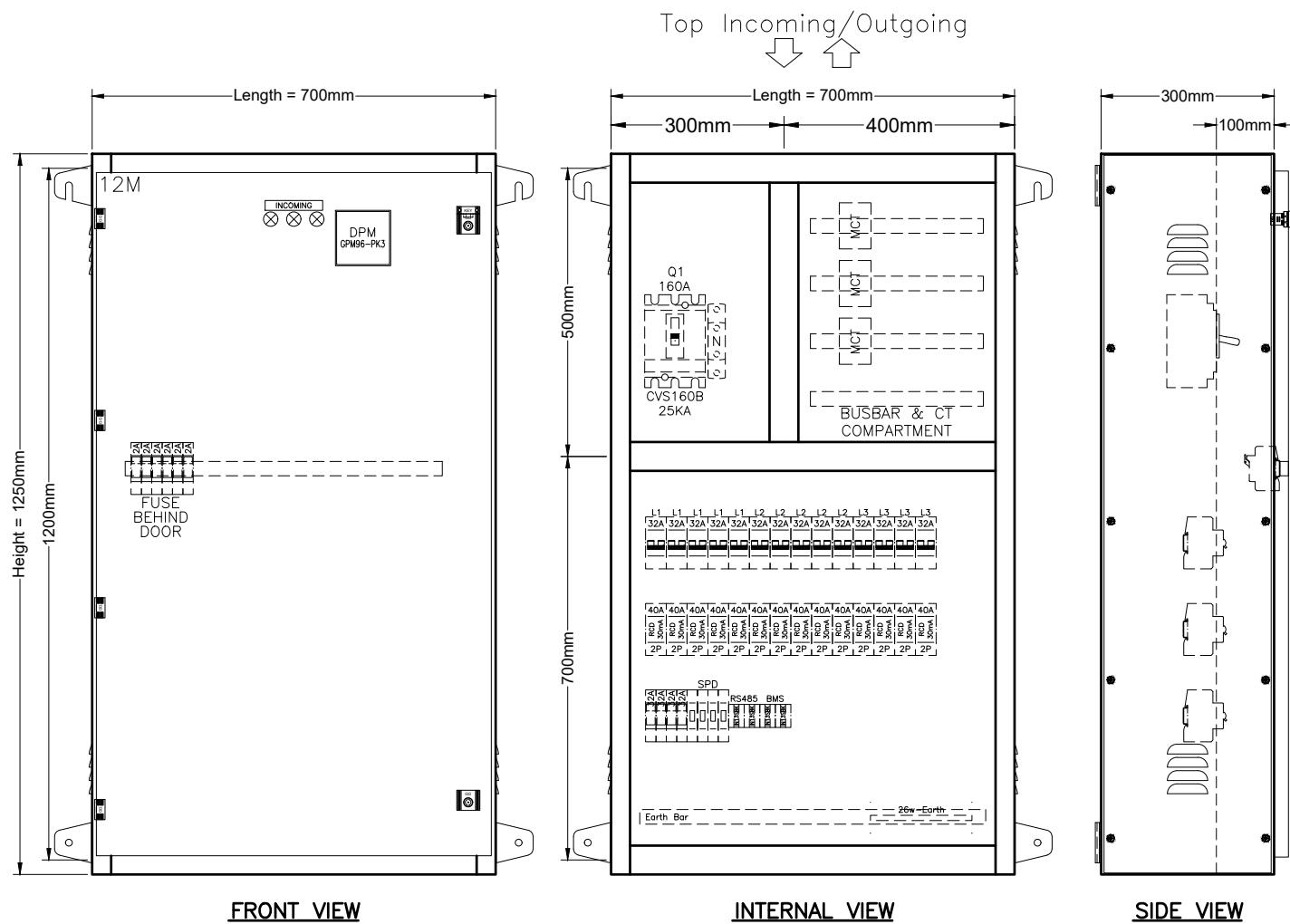
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1 2 3 4 5 6 7 8



WM0250 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO.

AMENDMENTS

DATE

DRAWN BY : RAKSH

DATE : 30.09.23

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

REV. NO.

AMENDMENTS

DATE

DRAWN BY : RAKSH

DATE :

OWNER : DSTA

REV. NO.

AMENDMENTS

DATE

DRAWN BY : RAKSH

DATE :

Gathergates
Power Up Your World

1

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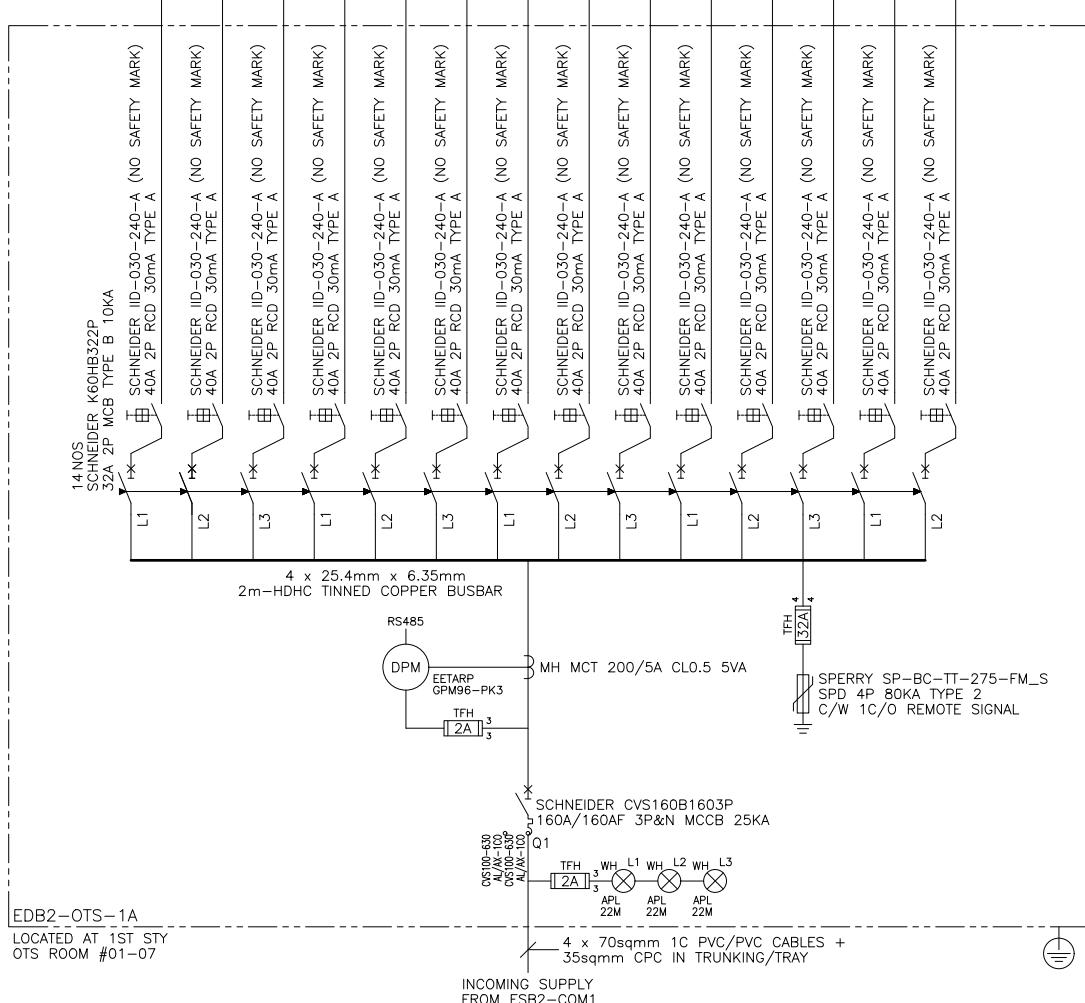
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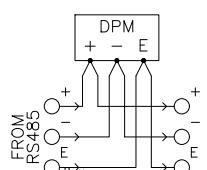
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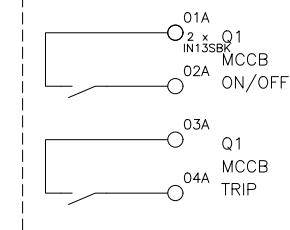
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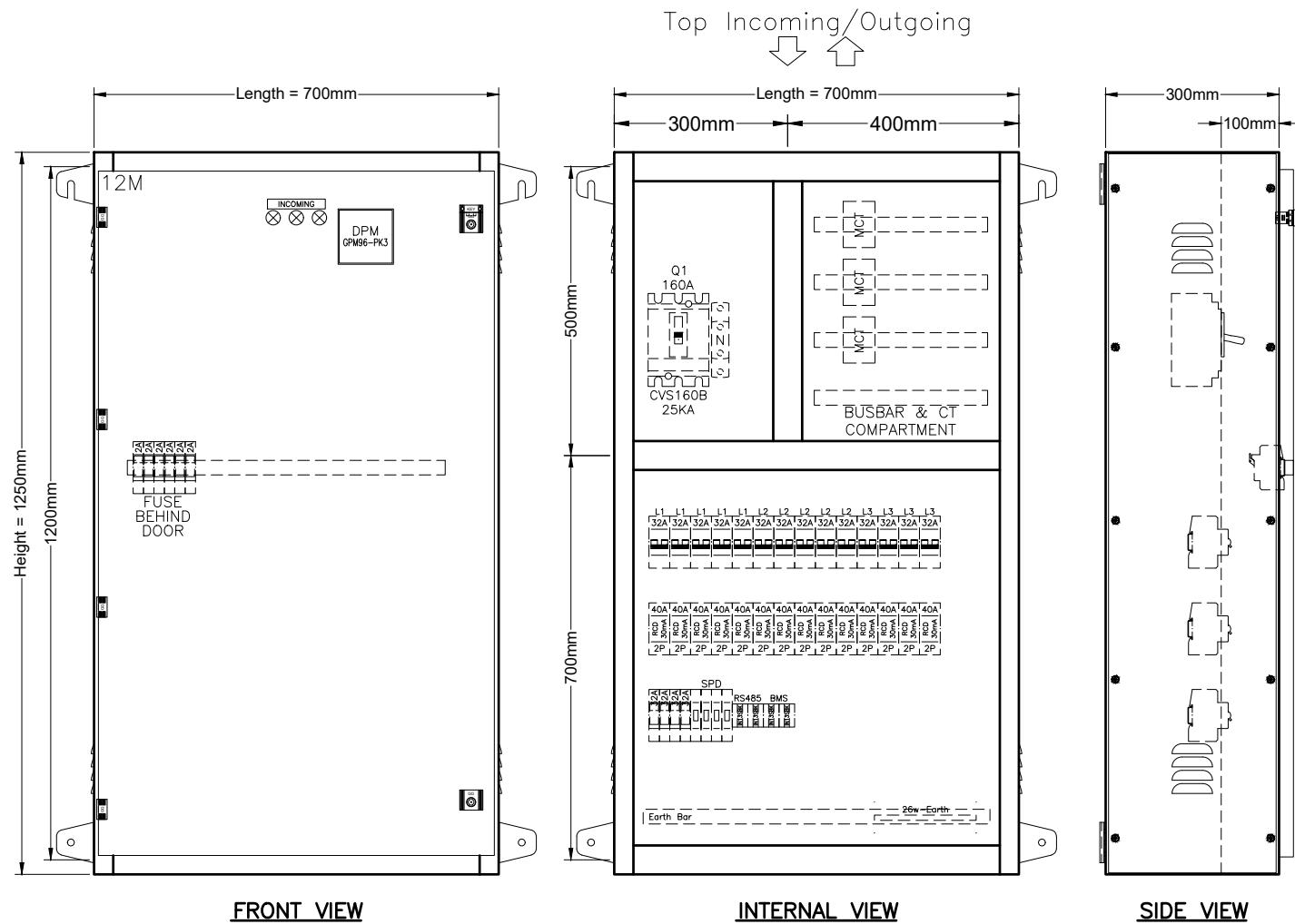
RS485 COMMUNICATION



TO BMS



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EDB2-OTS-1B

WM0250 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO. AMENDMENTS

DATE

DRAWN BY : RAKSH

DATE : 30.09.23

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

01 ES-2023-04604-A-26 (NASRUL)

01.06.24

CHECKED BY :

DATE :

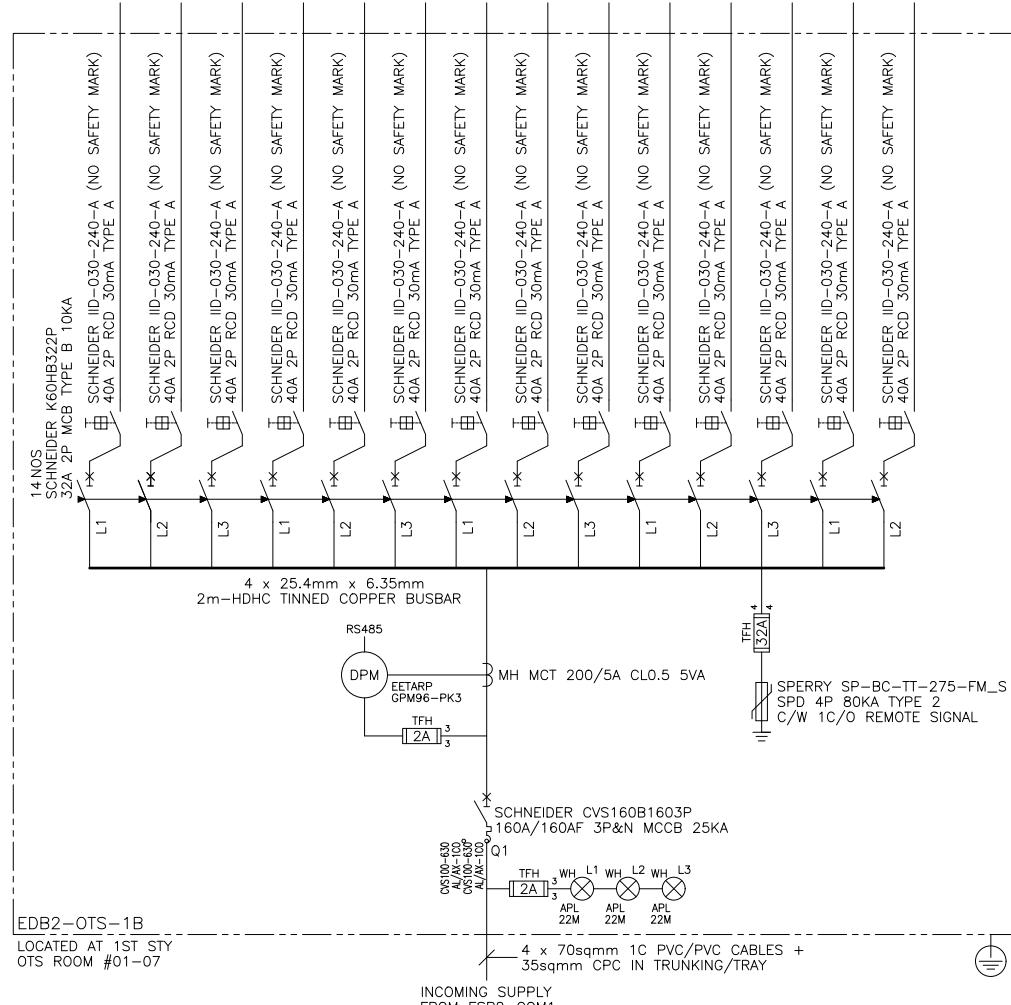
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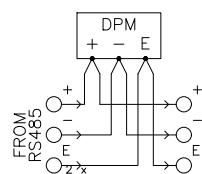
DWG NO. : PN-21-01366-23-04604-0029-L

Gathergates
Power Up Your World

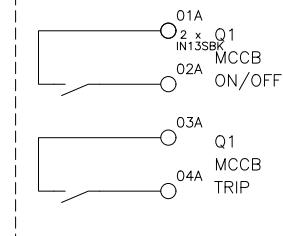
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RS485 COMMUNICATION

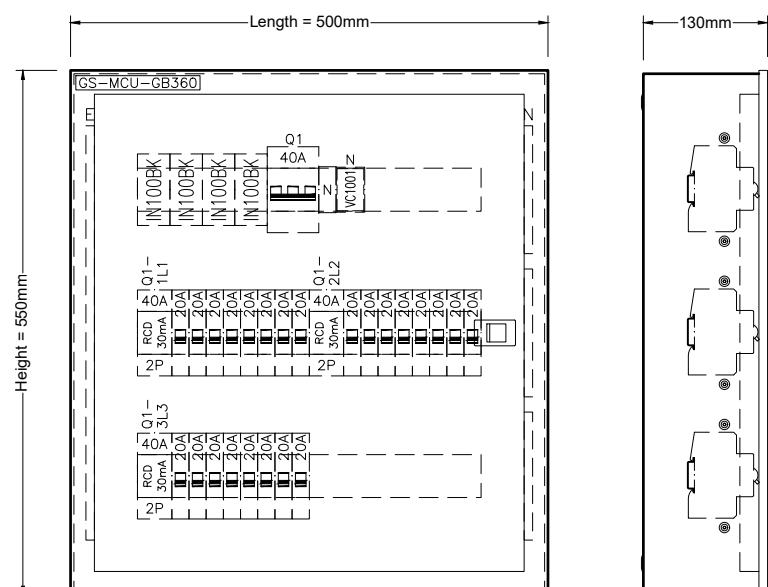
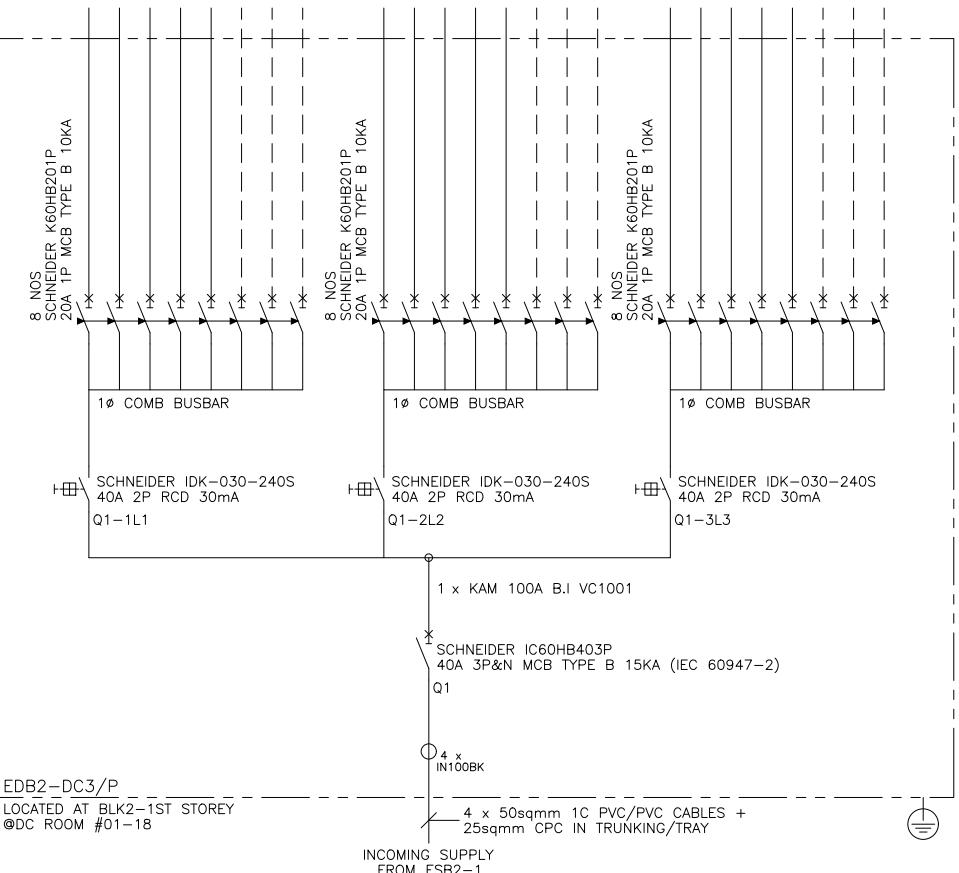


TO BMS



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B B
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EDB2-DC3/P

MCU-3R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

DRAWING TITLE : EDB2-DC3/P

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

CONSULTANT :

OWNER : DSTA

REV. NO.

AMENDMENTS

DATE

DRAWN BY :

RAKSH

DATE :

30.09.23

GATHERGATES SWITCHGEAR PTE LTD

CHECKED BY :

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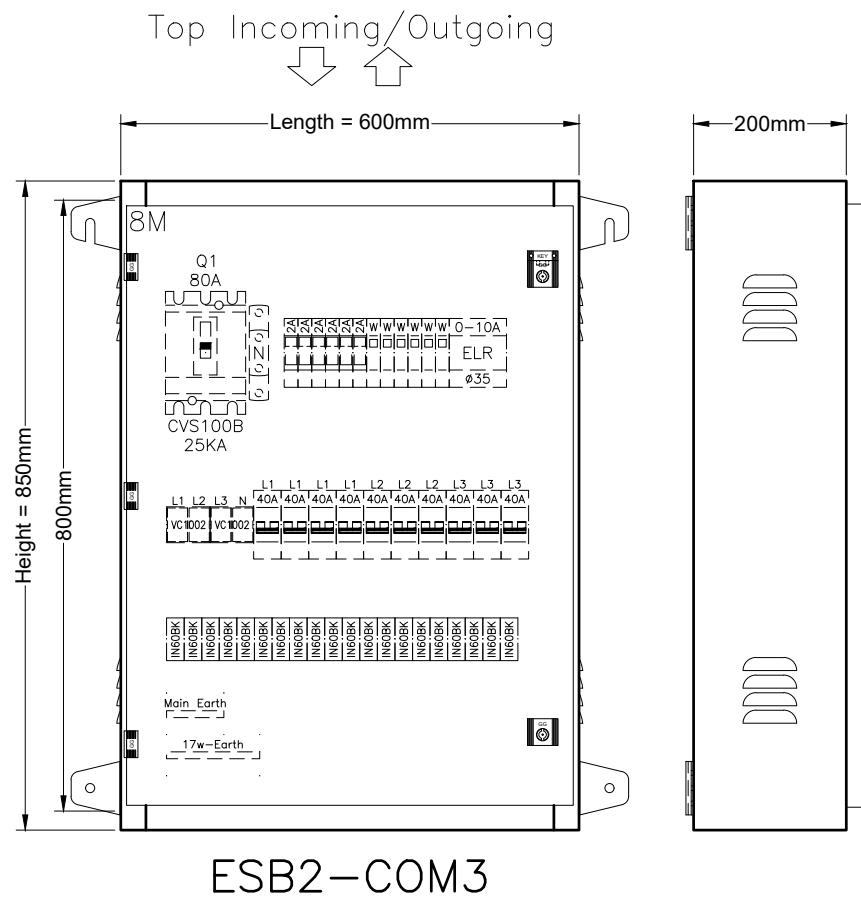
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DWG NO. :PN-21-01366-23-04604-0030-SL

Gathergates
Power Up Your World

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A B C D E



ESB2-COM3

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD	CLIENT : CHIN SENG ENGINEERING (S) PTE LTD CONSULTANT :	REV. NO.	AMENDMENTS	DATE	DRAWN BY : MAYURI	DATE : 30.09.23	GATHERGATES SWITCHGEAR PTE LTD Gathergates Power Up Your World
		01	ES-2023-04604-A-1 (VELU)	28.11.23	CHECKED BY :	DATE :	
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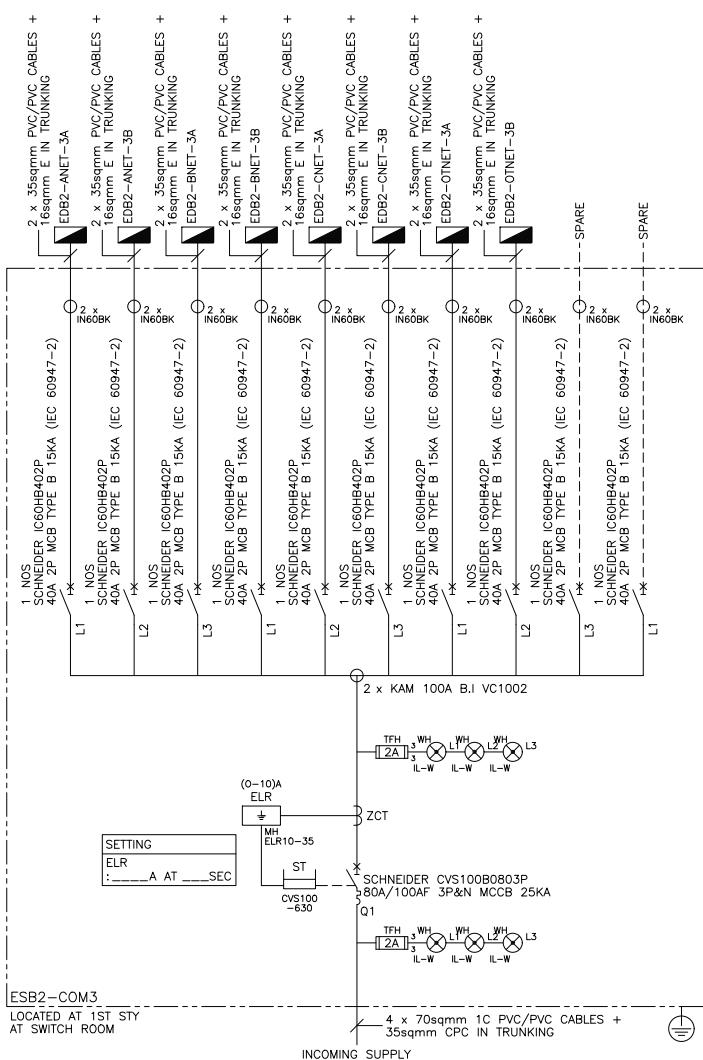
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PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT: SUN SENG ENGINEERING (S) PTE LTD

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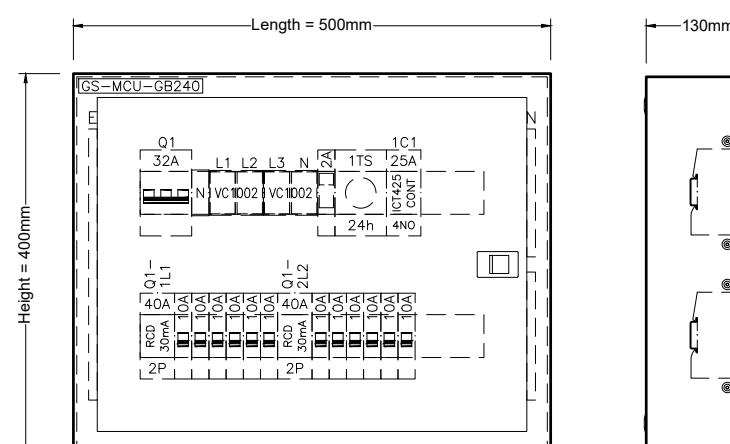
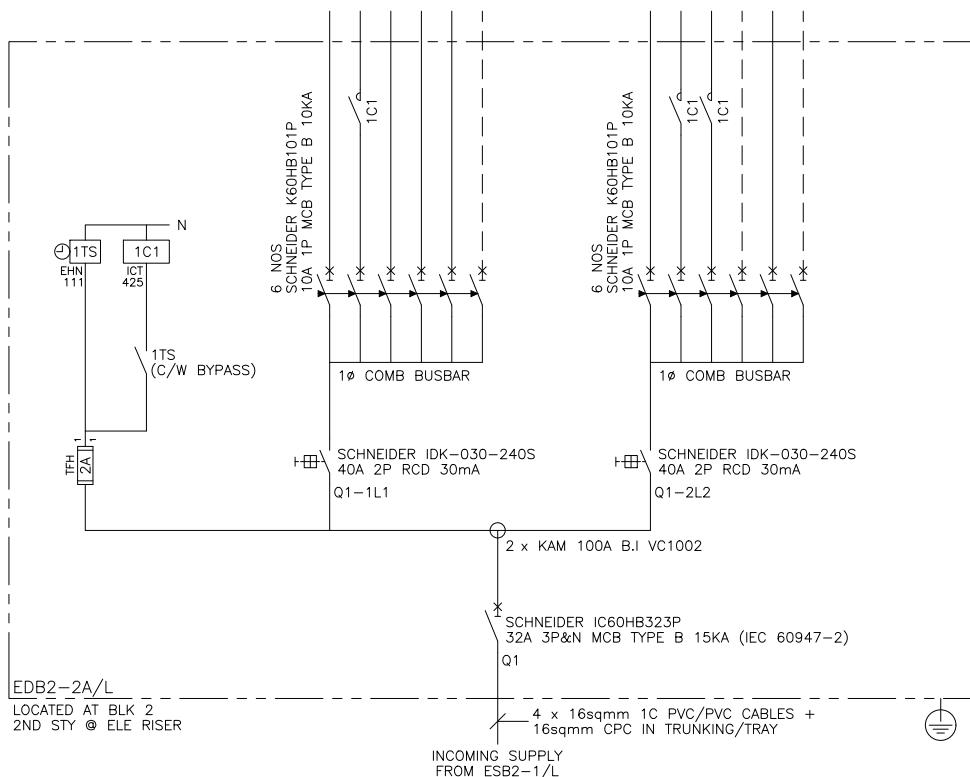
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3 GATHERGATES SWITCHGEAR PTE LTD

Gathergates

Power Up Your World

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EDB2-2A/L

MCU-2R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO. AMENDMENTS

DATE DRAWN BY : MAYURI

DATE : 30.09.23

GATHERGATES SWITCHGEAR PTE LTD

F

CONSULTANT :

CHECKED BY : DATE :

REF : SCALE : 1:8/A4

OWNER : DSTA

DATE DWG NO. :PN-21-01366-23-04604-0032-SL

Gathergates
Power Up Your World

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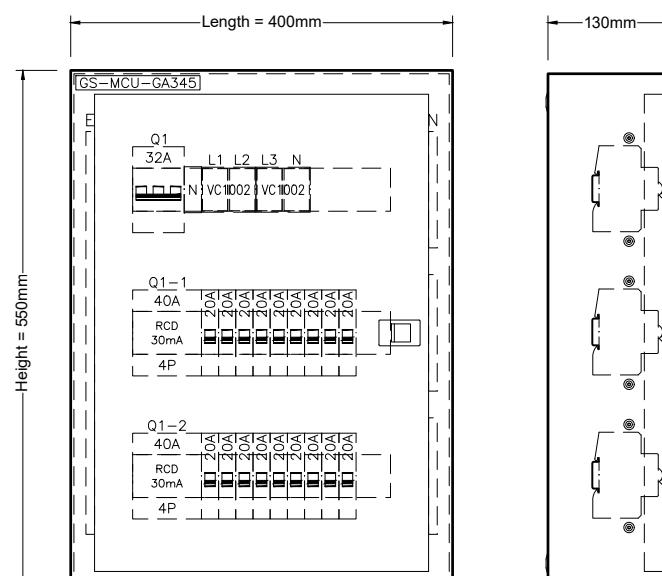
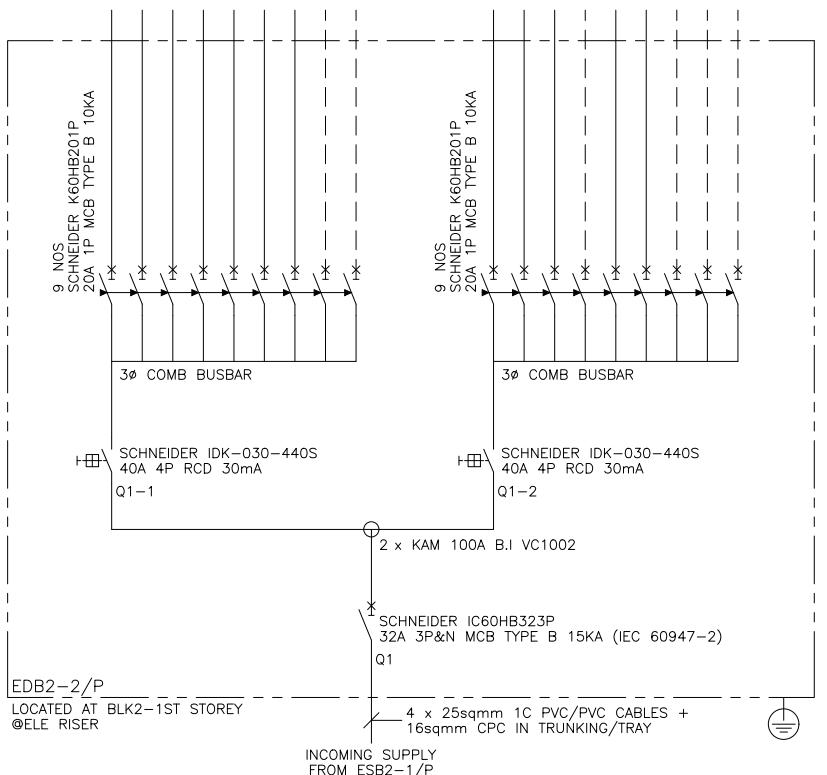
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MCU-3R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO. AMENDMENTS

DATE DRAWN BY : MAYURI

DATE : 30.09.23

GATHERGATES SWITCHGEAR PTE LTD

CHECKED BY :

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DWG NO. :PN-21-01366-23-04604-0033-SL

DRAWING TITLE : EDB2-2/P

CONSULTANT : DSTA

OWNER : DSTA

Gathergates
Power Up Your World

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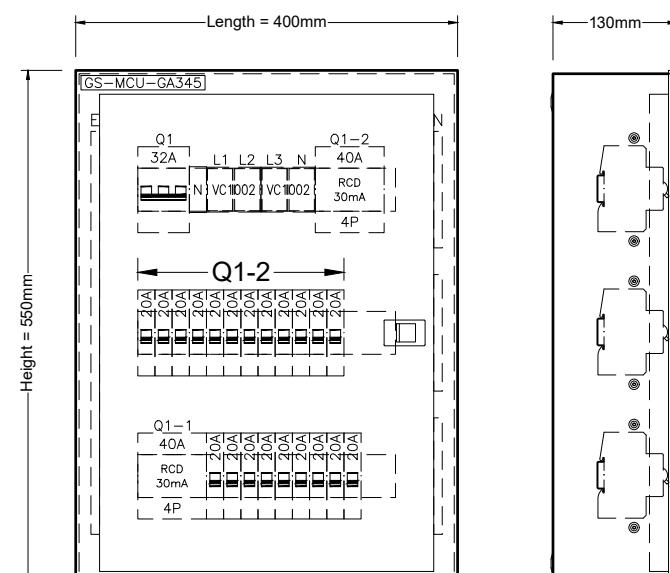
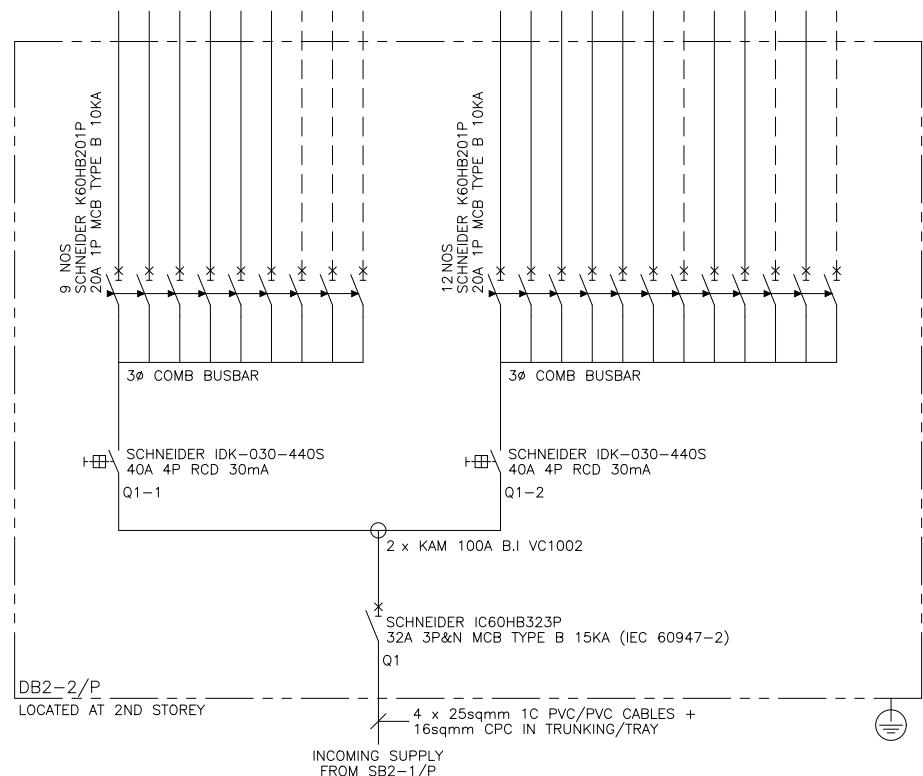
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DB2-2/P

MCU-3R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO. AMENDMENTS

DATE DRAWN BY : MAYURI

DATE : 30.09.23

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

CHECKED BY : DATE :

REF : SCALE : 1:8/A4

OWNER : DSTA

DWG NO. :PN-21-01366-23-04604-0034-SL

Gathergates
Power Up Your World

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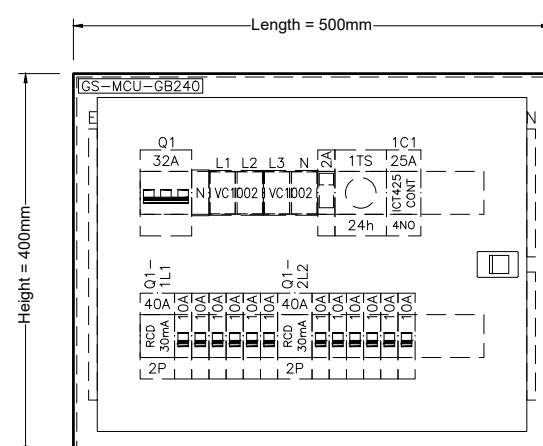
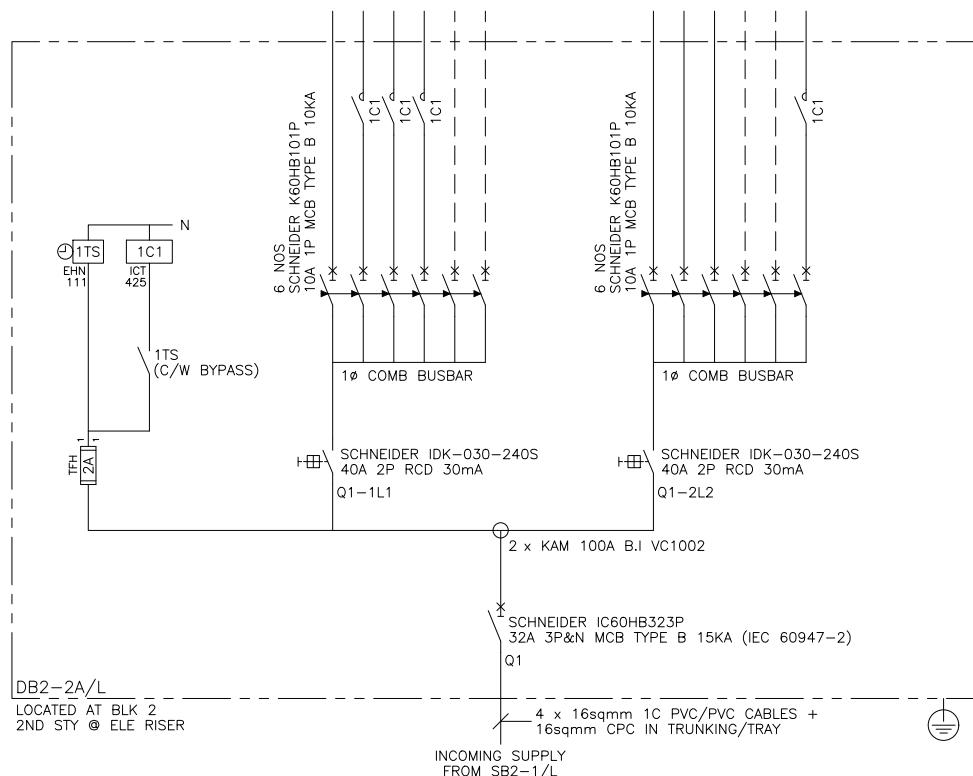
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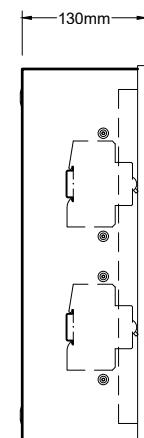
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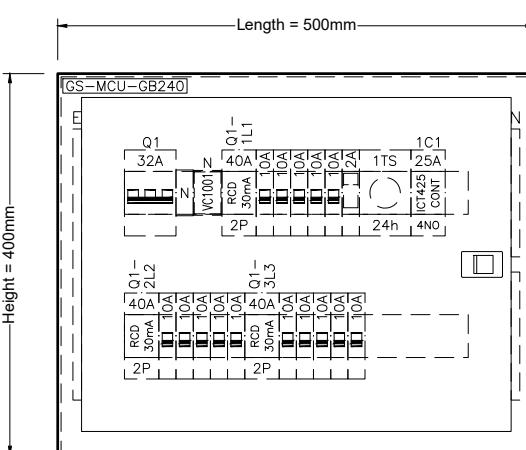
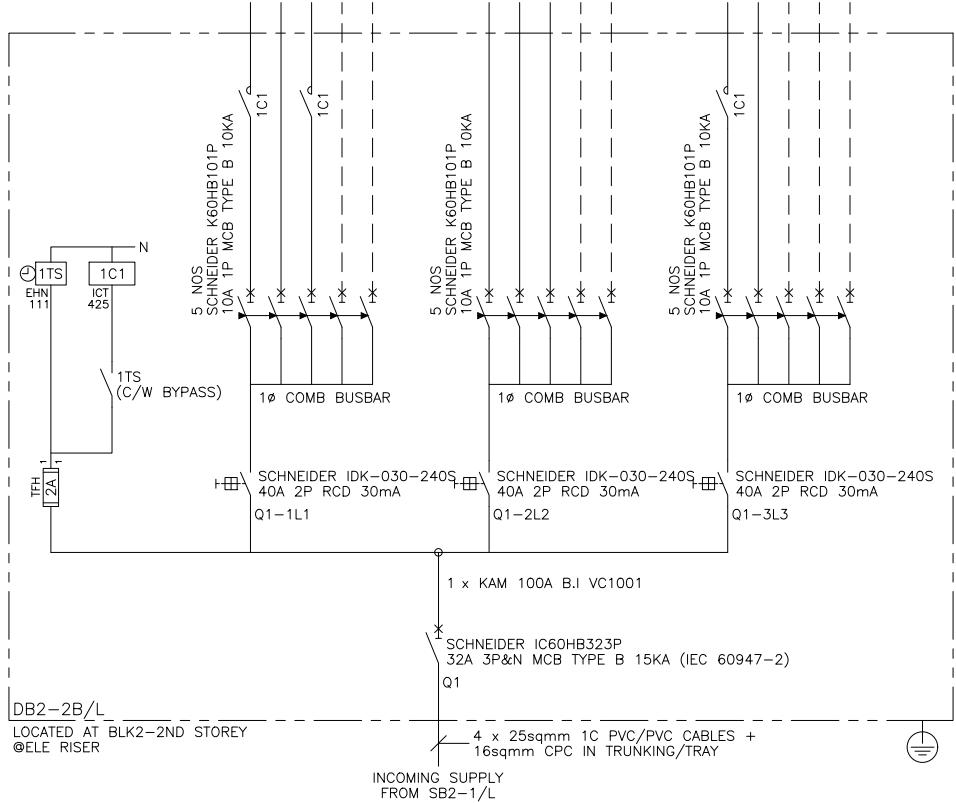


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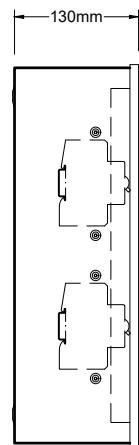


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PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD	CLIENT :	CHIN SENG ENGINEERING (S) PTE LTD	REV. NO.	AMENDMENTS	DATE	DRAWN BY :	MAYURI	DATE : 30.09.23	GATHERGATES SWITCHGEAR PTE LTD
	CONSULTANT :					CHECKED BY :		DATE :	
	OWNER :	DSTA				REF :	SCALE : 1:8/A4	DWG NO. :PN-21-01366-23-04604-0035-SL	
DRAWING TITLE : DB2-2A/L						Gathergates	Power Up Your World		



DB2-2B/L



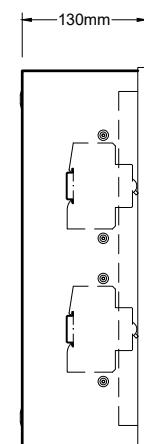
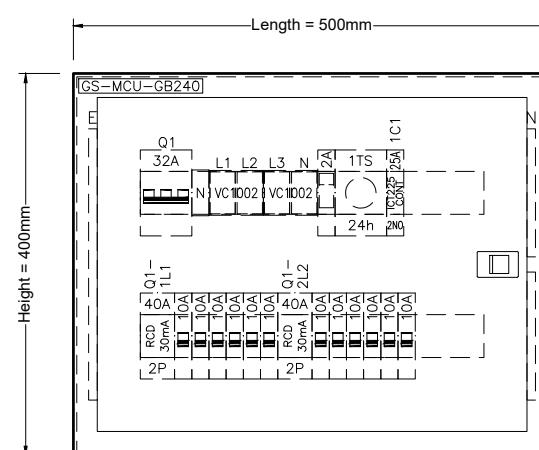
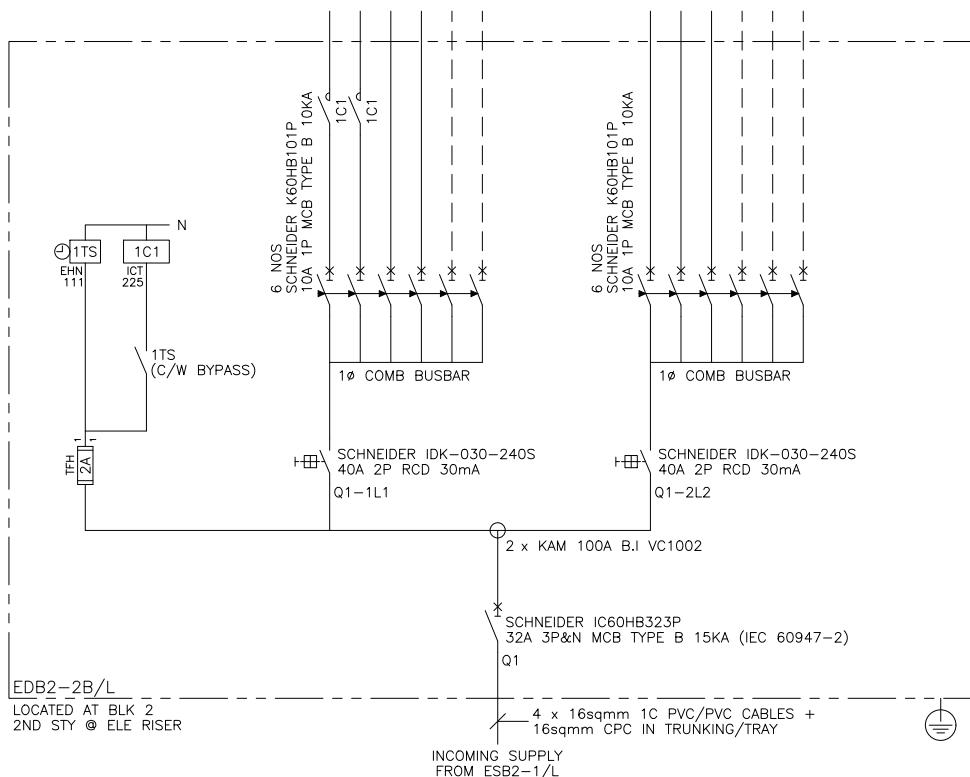
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Gathergates

Power Up Your World

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD	CLIENT : CHIN SENG ENGINEERING (S) PTE LTD	REV. NO.	AMENDMENTS	DATE	DRAWN BY : RAKSH	DATE : 30.09.23	GATHERGATES SWITCHGEAR PTE LTD
	CONSULTANT :				CHECKED BY :	DATE :	
DRAWING TITLE : DB2-2B/L	OWNER : DSTA				REF :	SCALE : 1:8/A4	

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EDB2-2B/L

MCU-2R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

DRAWING TITLE : EDB2-2B/L

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

CONSULTANT :

OWNER : DSTA

REV. NO.

AMENDMENTS

DATE

DRAWN BY : MAYURI

DATE : 30.09.23

GATHERGATES SWITCHGEAR PTE LTD

CHECKED BY :

DATE :

REF :

SCALE : 1:8/A4

DWG NO. : PN-21-01366-23-04604-0037-SL

Gathergates
Power Up Your World

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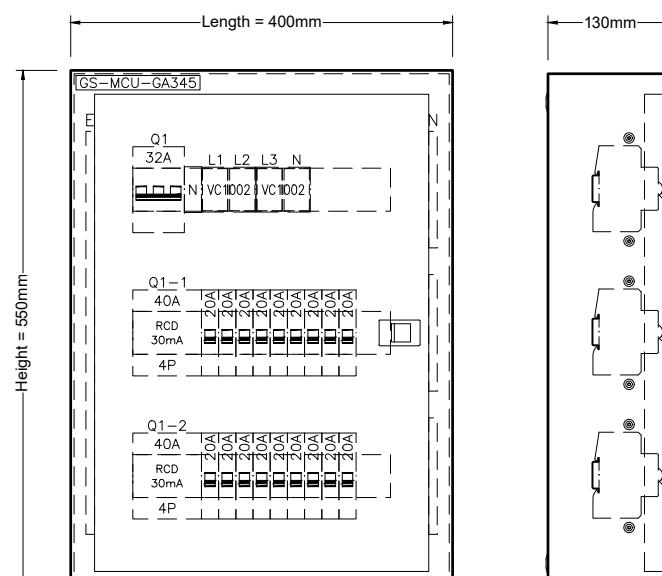
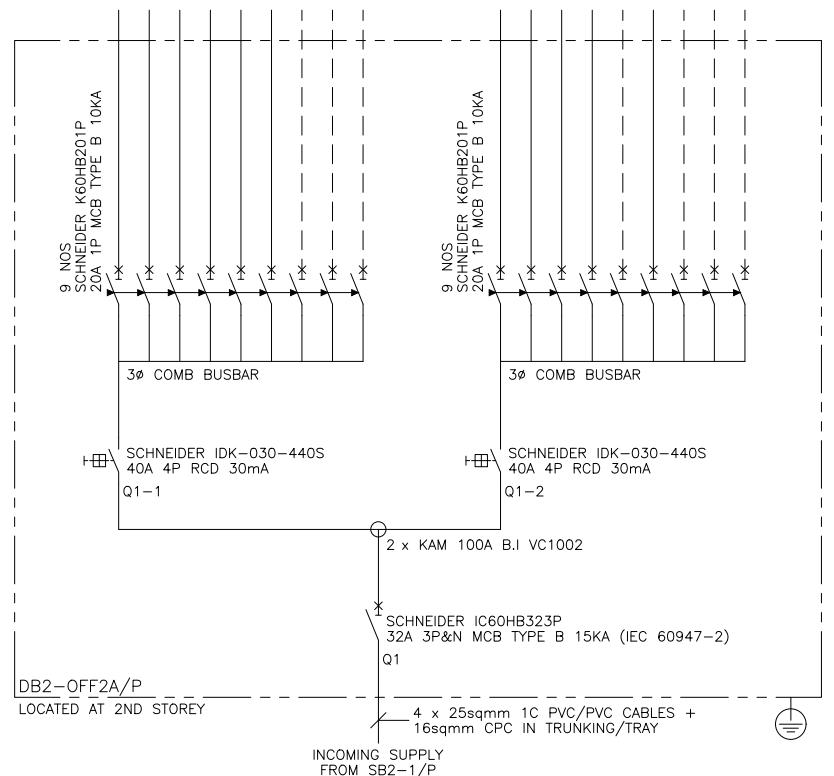
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DB2-OFF2A/P

MCU-3R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO. AMENDMENTS

DATE DRAWN BY :

DATE : MAYURI

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

CHECKED BY : DATE :

REF : SCALE : 1:8/A4

OWNER : DSTA

DWG NO. :PN-21-01366-23-04604-0038-SL

Gathergates
Power Up Your World

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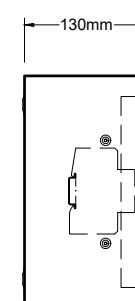
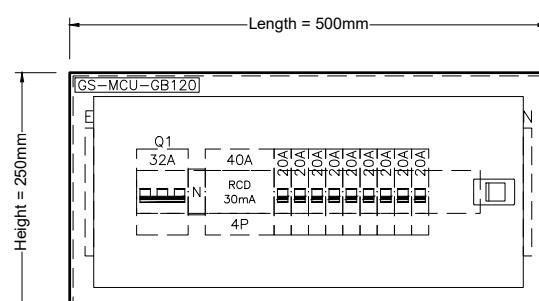
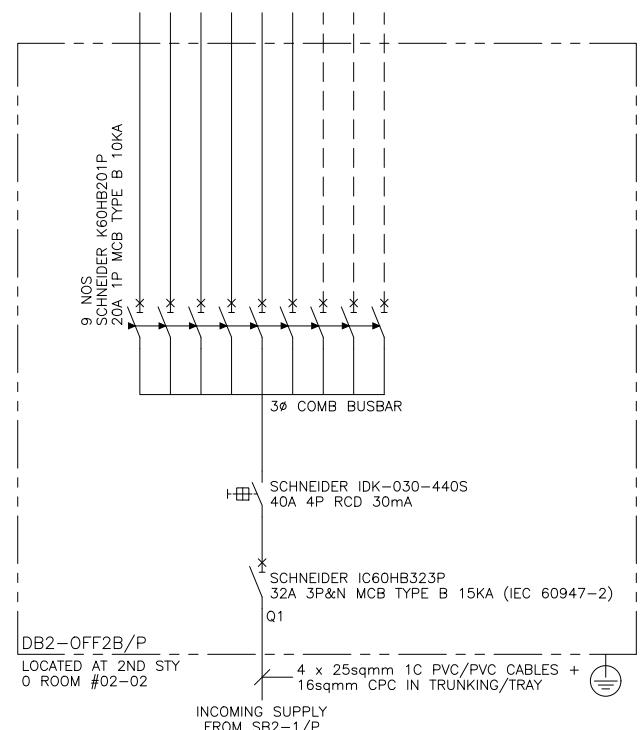
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DB2-OFF2B/P

MCU-2R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO. AMENDMENTS

DATE DRAWN BY : MAYURI DATE : 30.09.23

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

CHECKED BY : DATE :

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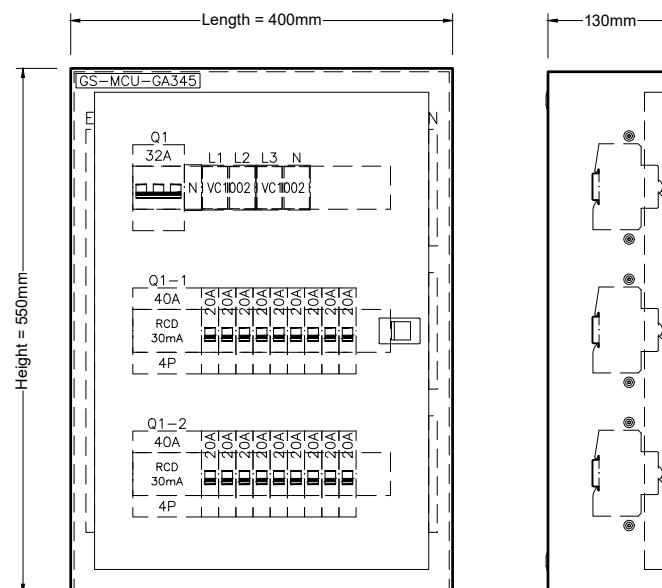
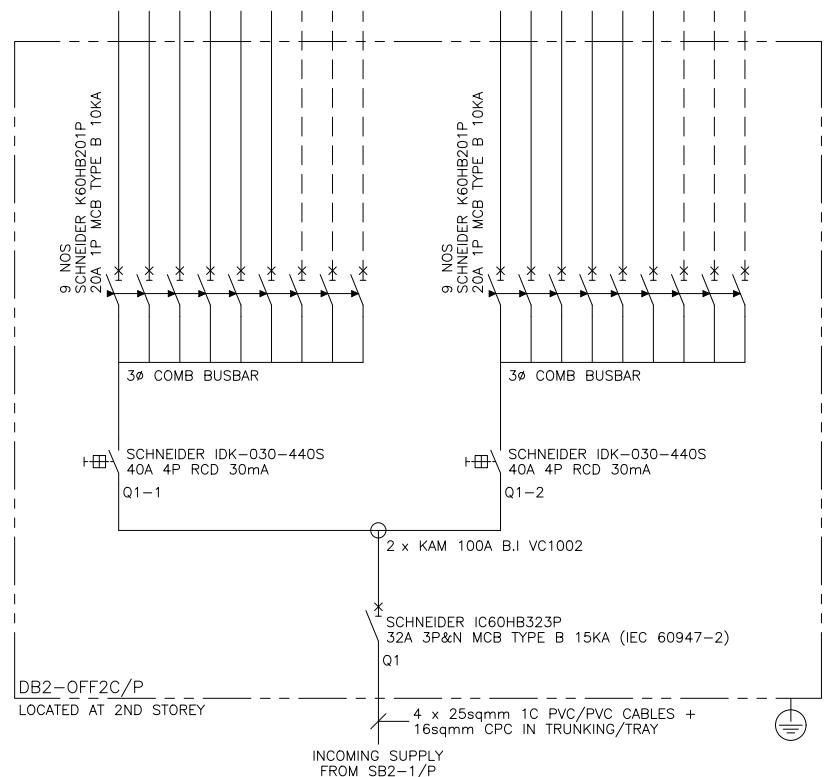
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DWG NO. :PN-21-01366-23-04604-0039-SL

Gathergates
 Power Up Your World

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DB2-OFF2C/P

MCU-3R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO. AMENDMENTS

DATE DRAWN BY : MAYURI

DATE : 30.09.23

GATHERGATES SWITCHGEAR PTE LTD

CHECKED BY :

DATE :

REF :

SCALE : 1:8/A4

DWG NO. :PN-21-01366-23-04604-0040-SL

DRAWING TITLE : DB2-OFF2C/P

CONSULTANT :
OWNER : DSTA

Gathergates

Power Up Your World

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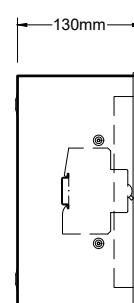
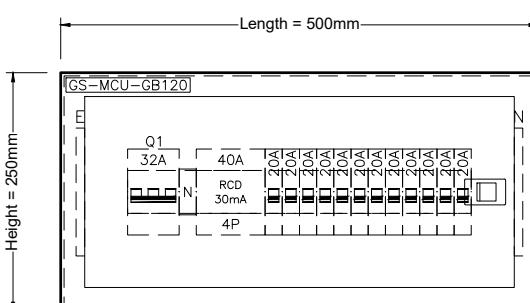
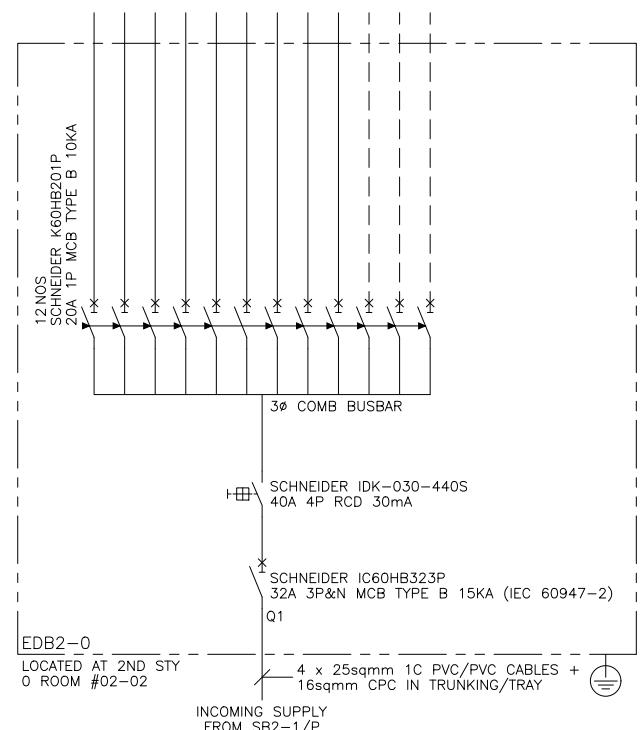
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MCU-1R 1



EDB2-0

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO. AMENDMENTS

DATE DRAWN BY : MAYURI DATE : 30.09.23

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

CHECKED BY : DATE :

REF : SCALE : 1:8/A4

DRAWING TITLE : EDB2-0

OWNER : DSTA

DWG NO. : PN-21-01366-23-04604-0041-SL

Gathergates
Power Up Your World

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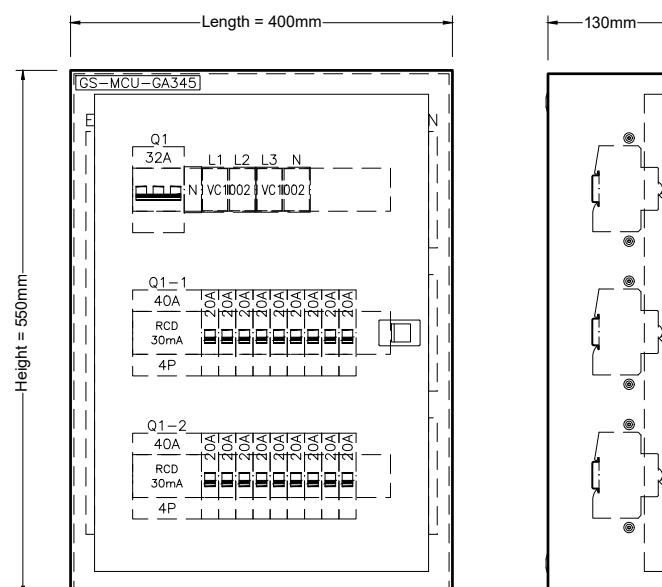
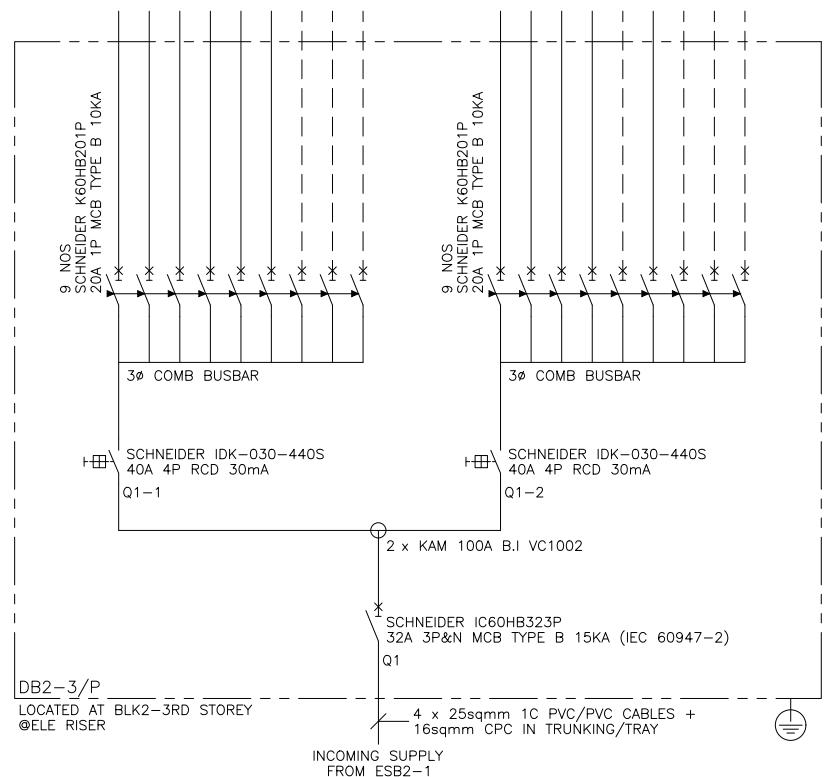
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MCU-3R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO. AMENDMENTS

DATE DRAWN BY : RAKSH

DATE : 17.10.23

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

CHECKED BY : DATE :

REF : SCALE : 1:8/A4

OWNER : DSTA

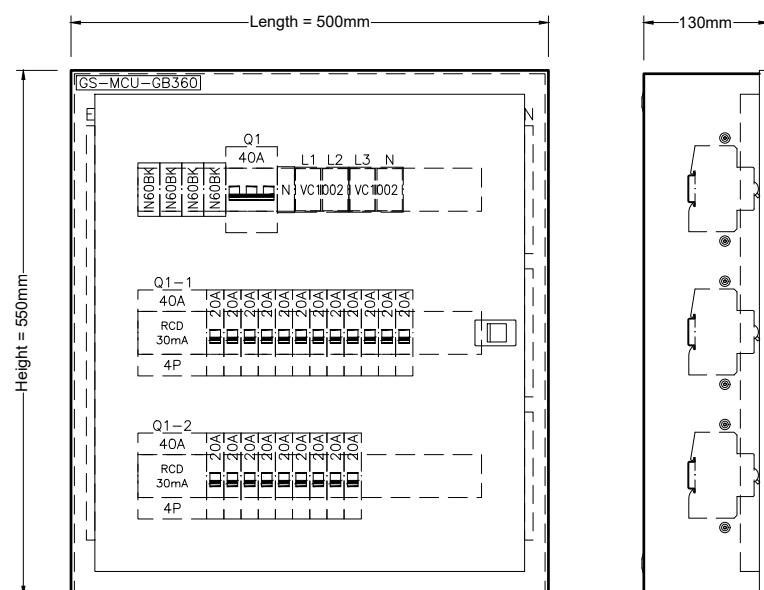
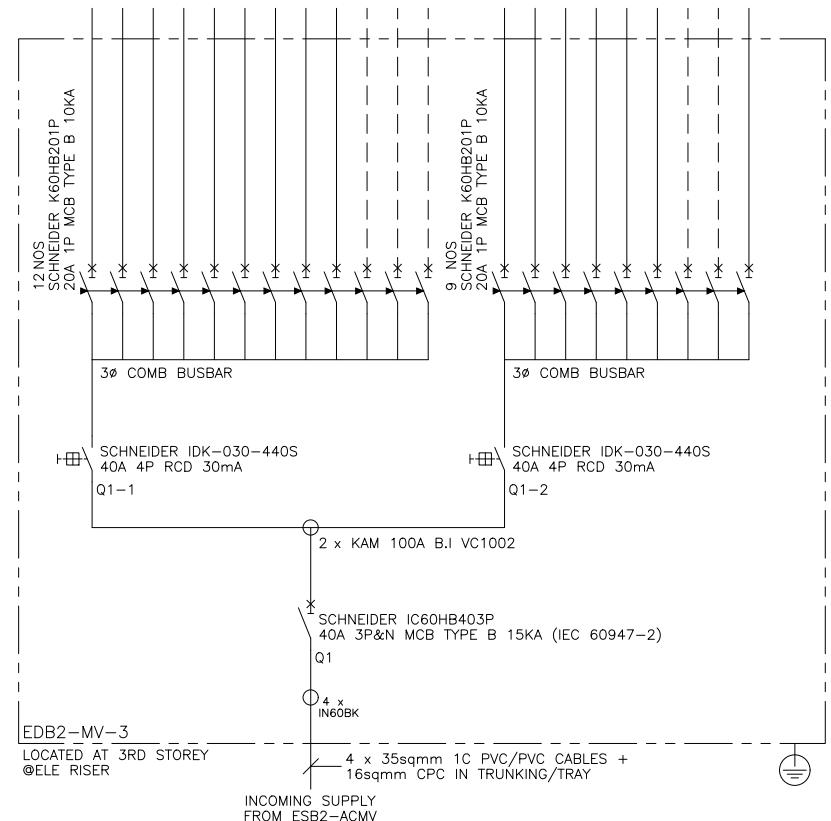
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Gathergates
Power Up Your World

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EDB2-MV-3

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO.	AMENDMENTS	DATE	DRAWN BY :	RAKSH	DATE :	GATHERGATES SWITCHGEAR PTE LTD
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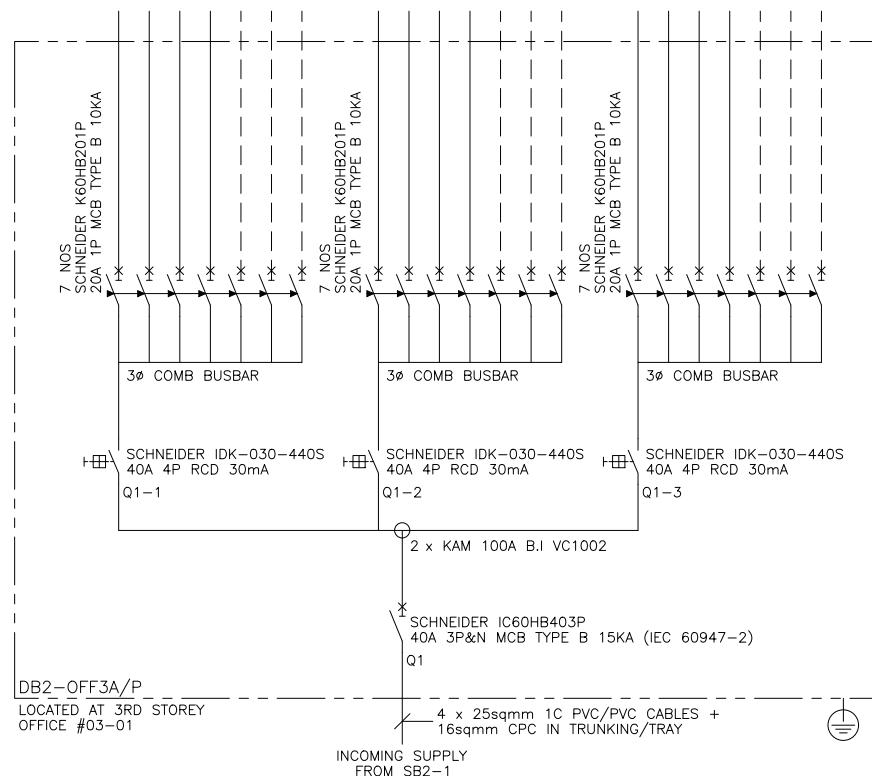
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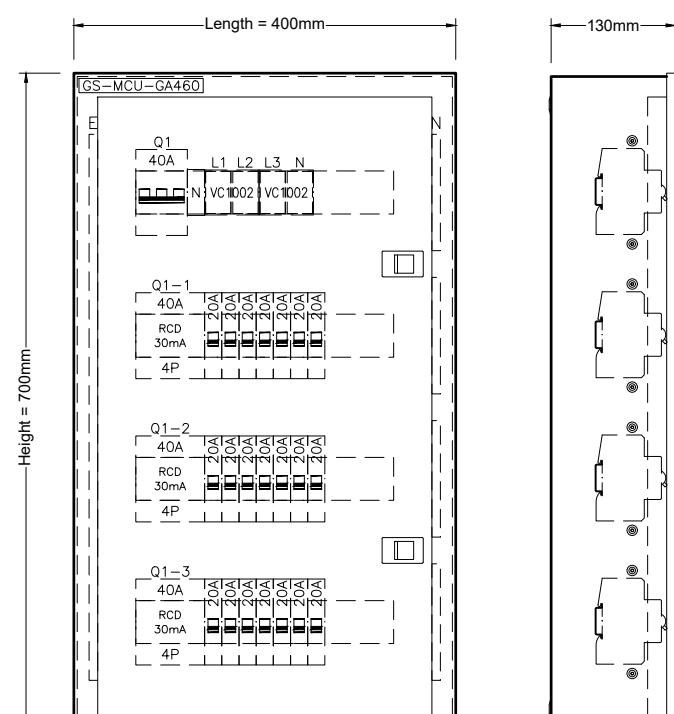
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MCU-4R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO.	AMENDMENTS	DATE	DRAWN BY :	RAKSH	DATE :	GATHERGATES SWITCHGEAR PTE LTD
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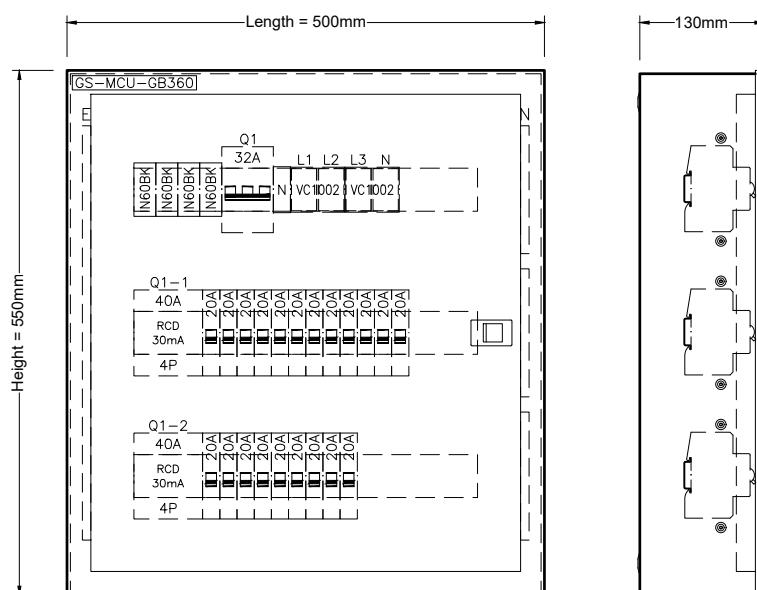
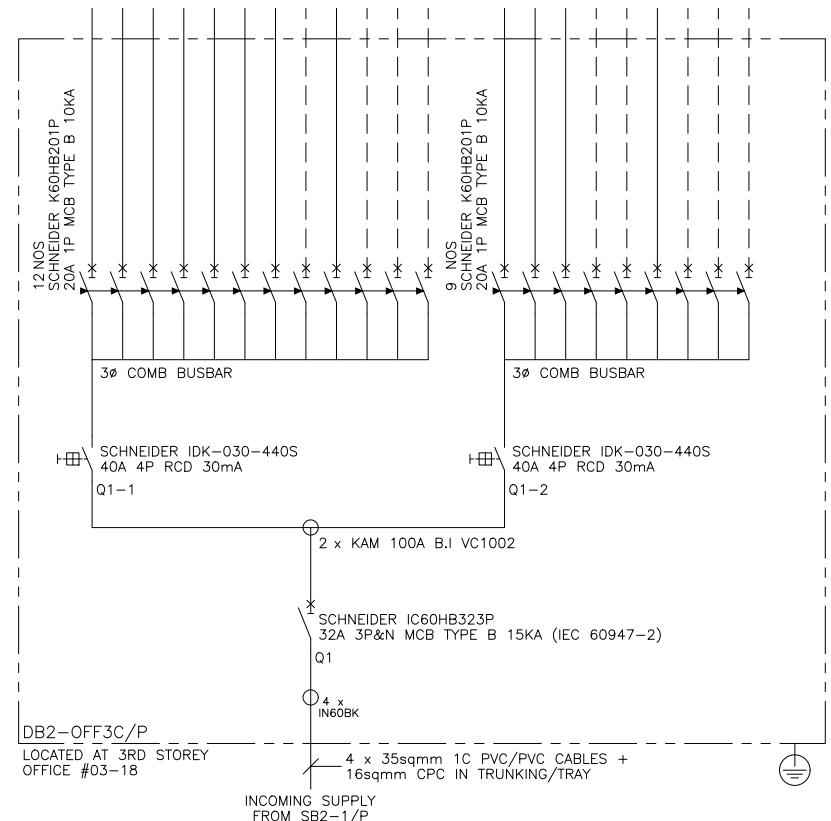
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Gathergates
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DB2-OFF3C/P

MCU-3R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO. AMENDMENTS

DATE

DRAWN BY :

RAKSH

DATE : 17.10.23

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

CHECKED BY :

DATE :

OWNER : DSTA

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SCALE : 1:8/A4

DRAWING TITLE : DB2-OFF3C/P

Gathergates
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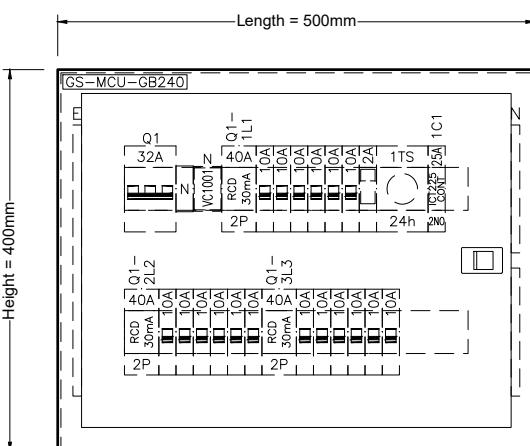
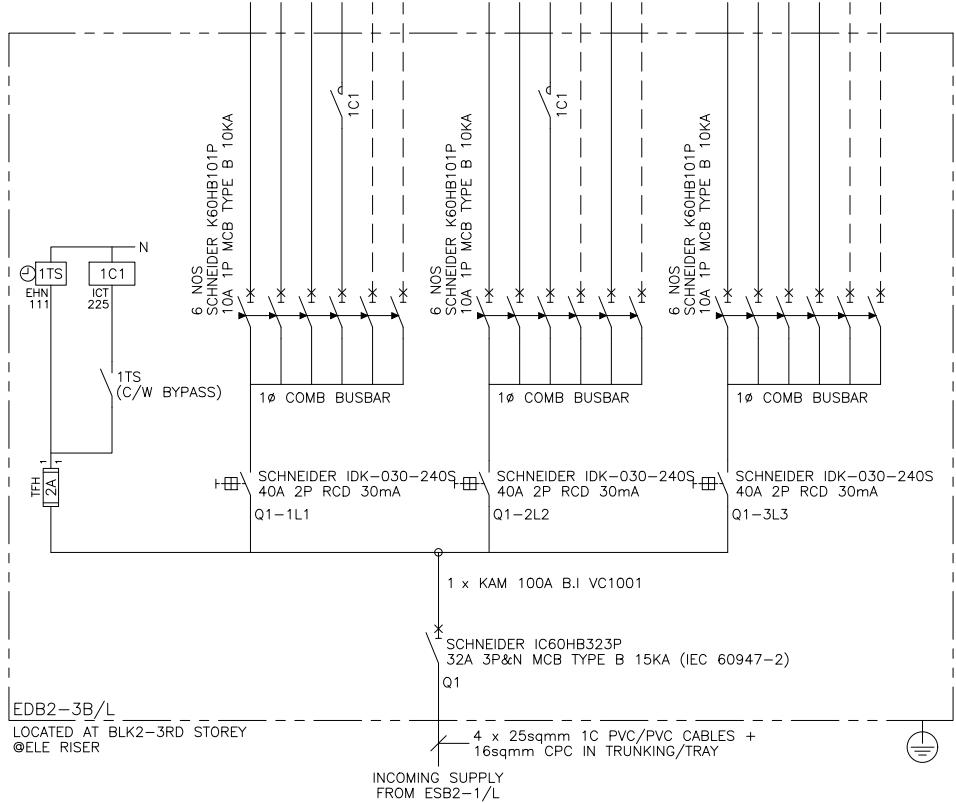
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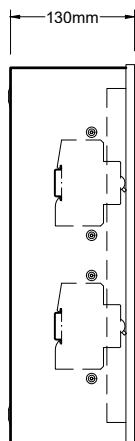
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EDB2-3B/L



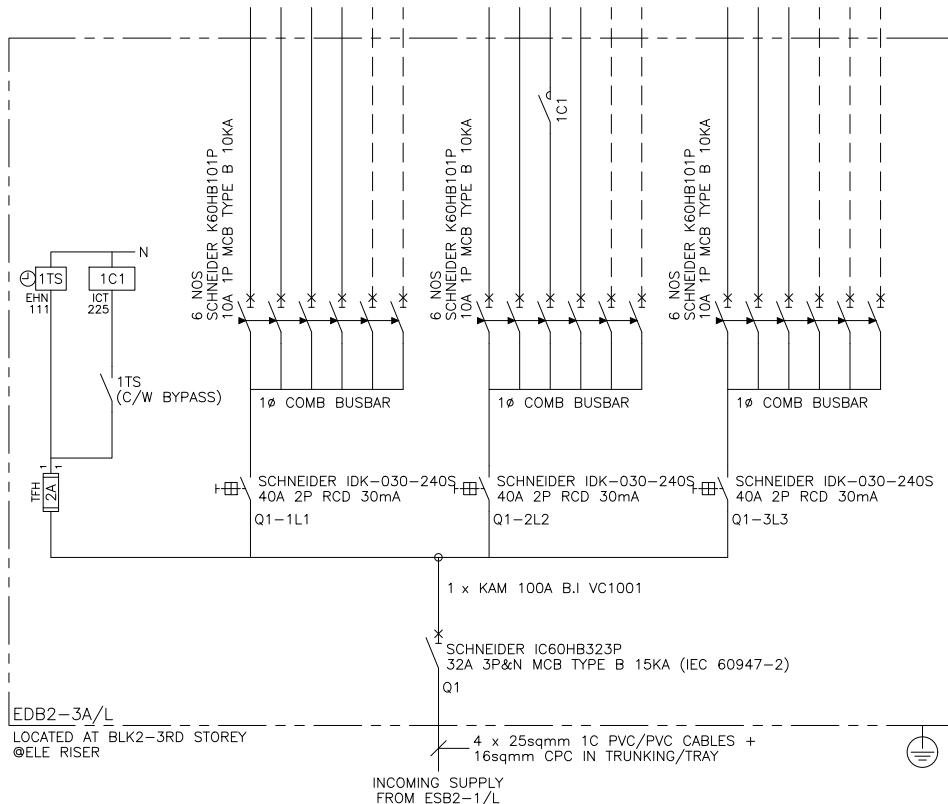
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Gathergates

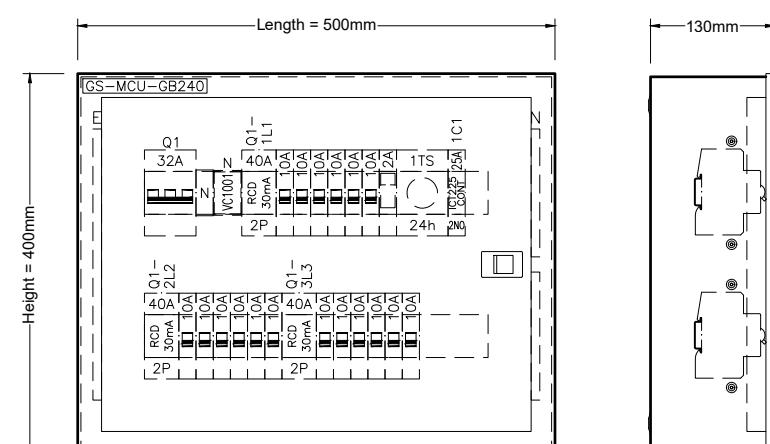
Power Up Your World

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD	CLIENT : CHIN SENG ENGINEERING (S) PTE LTD	REV. NO.	AMENDMENTS	DATE	DRAWN BY : RAKSH	DATE : 17.10.23	GATHERGATES SWITCHGEAR PTE LTD
DRAWING TITLE : EDB2-3B/L	CONSULTANT :				CHECKED BY :	DATE :	
	OWNER : DSTA				REF :	SCALE : 1:8/A4	DWG NO. :PN-21-01366-23-04604-0046-SL

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EDB2-3A/L

MCU-2R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

DRAWING TITLE : EDB2-3A/L

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

CONSULTANT :

OWNER : DSTA

REV. NO.

AMENDMENTS

DATE

DRAWN BY : RAKSH

DATE : 17.10.23

GATHERGATES SWITCHGEAR PTE LTD

CHECKED BY :

DATE :

REF :

SCALE : 1:8/A4

DWG NO. : PN-21-01366-23-04604-0047-SL

Gathergates
Power Up Your World

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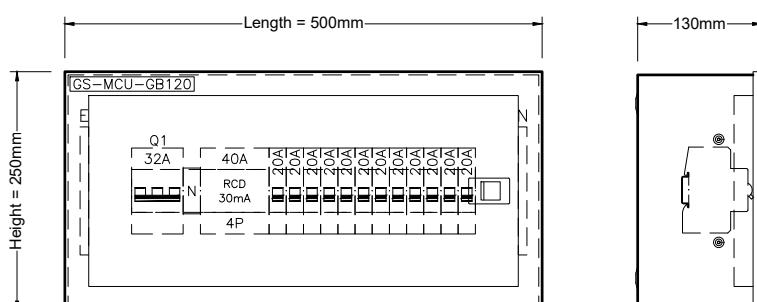
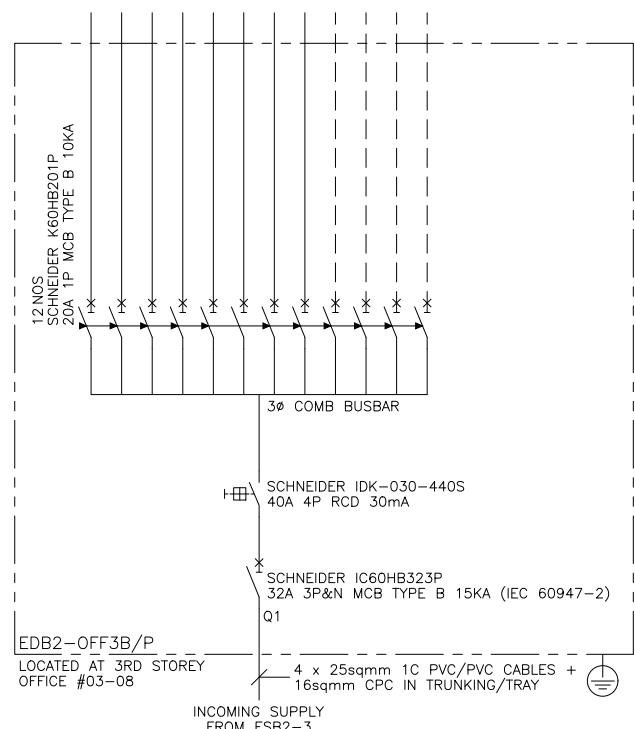
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EDB2-OFF3B/P

MCU-1R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO.

AMENDMENTS

DATE

DRAWN BY :

RAKSH

DATE :

GATHERGATES SWITCHGEAR PTE LTD

DRAWING TITLE : EDB2-OFF3B/P

CONSULTANT :
OWNER : DSTA

CHECKED BY :

REF : DATE :
SCALE : 1:8/A4

DWG NO. :PN-21-01366-23-04604-0048-SL

Gathergates
Power Up Your World

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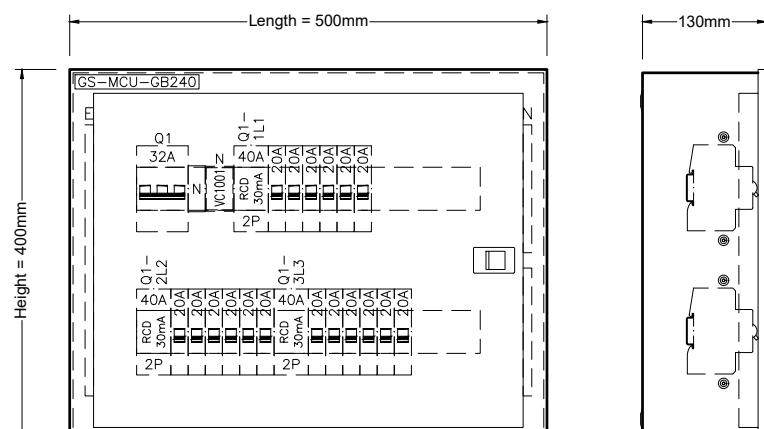
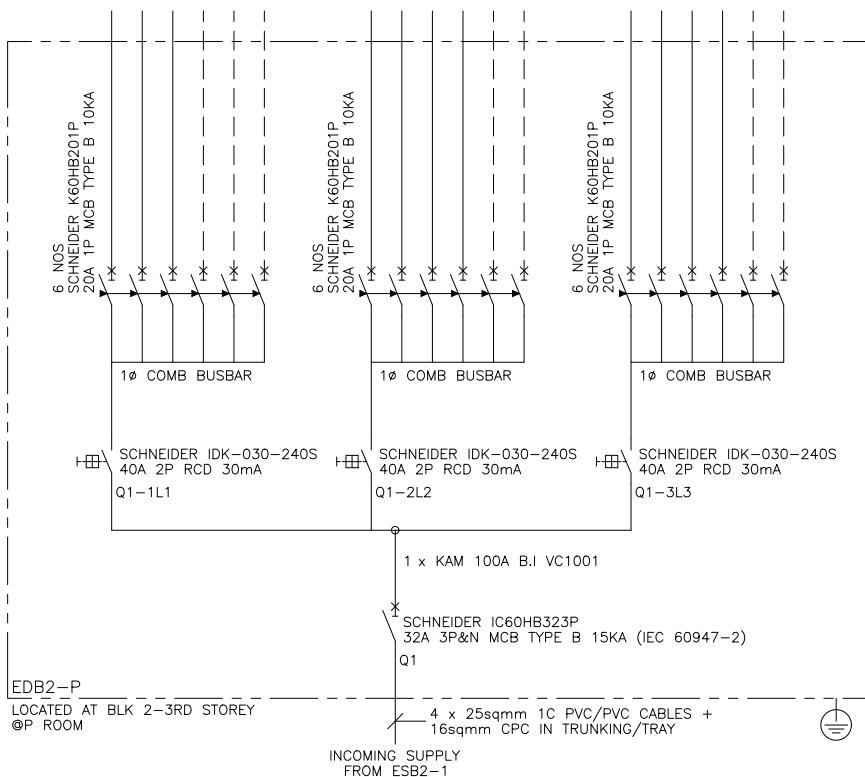
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EDB2-P

MCU-4R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO.

AMENDMENTS

DATE

DRAWN BY : RAKSH

DATE : 17.10.23

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

CHECKED BY : DATE :

OWNER : DSTA

REF : SCALE : 1:8/A4

DWG NO. : PN-21-01366-23-04604-0049-SL

Gathergates
Power Up Your World

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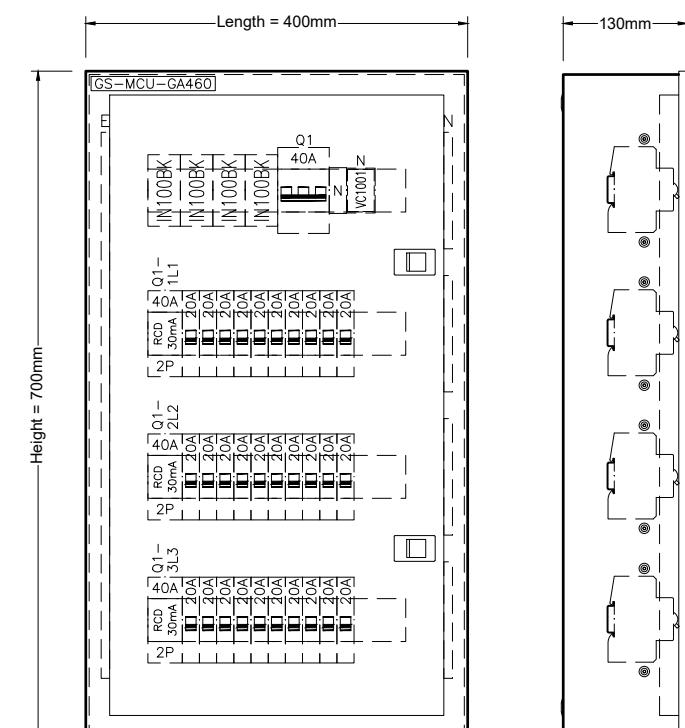
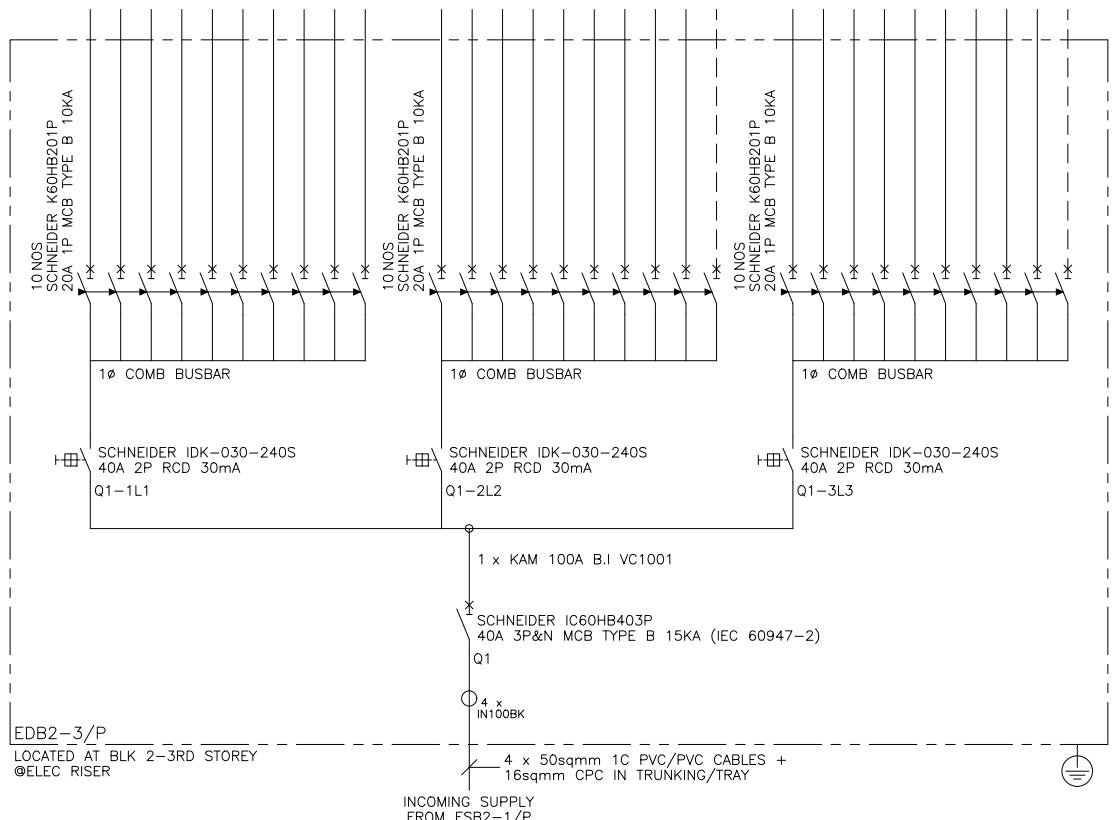
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D D
E E
F F



EDB2-3/P

MCU-4R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO.

AMENDMENTS

DATE

DRAWN BY :

RAKSH

DATE :

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

CHECKED BY :

Gathergates

OWNER : DSTA

REF :

Power Up Your World

DRAWING TITLE : EDB2-3/P

SCALE : 1:8/A4

DWG NO. : PN-21-01366-23-04604-0050-SL

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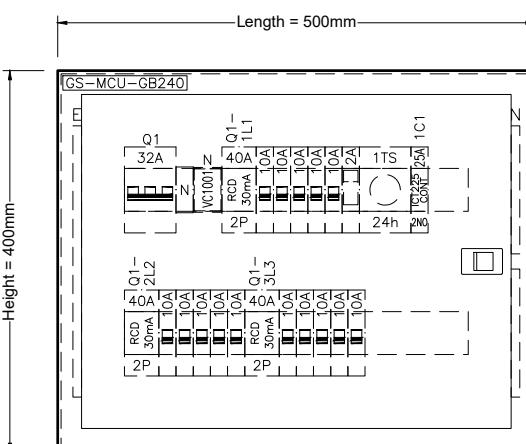
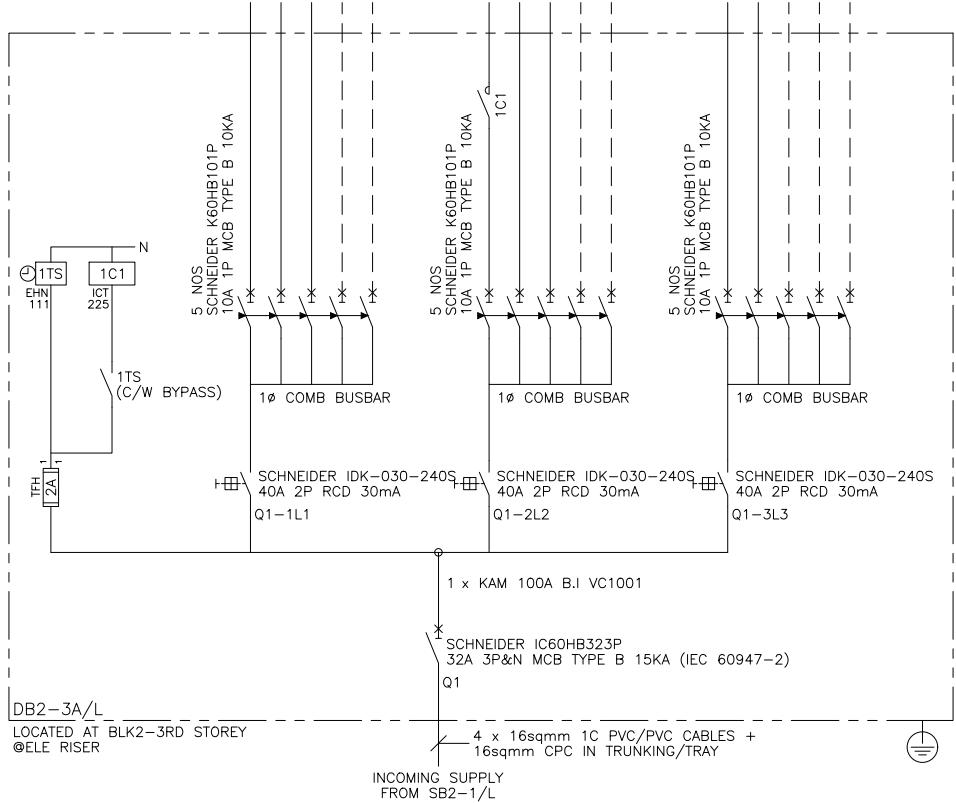
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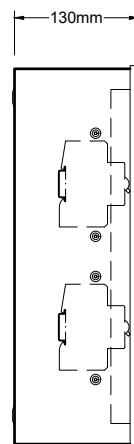
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DB2-3A/L



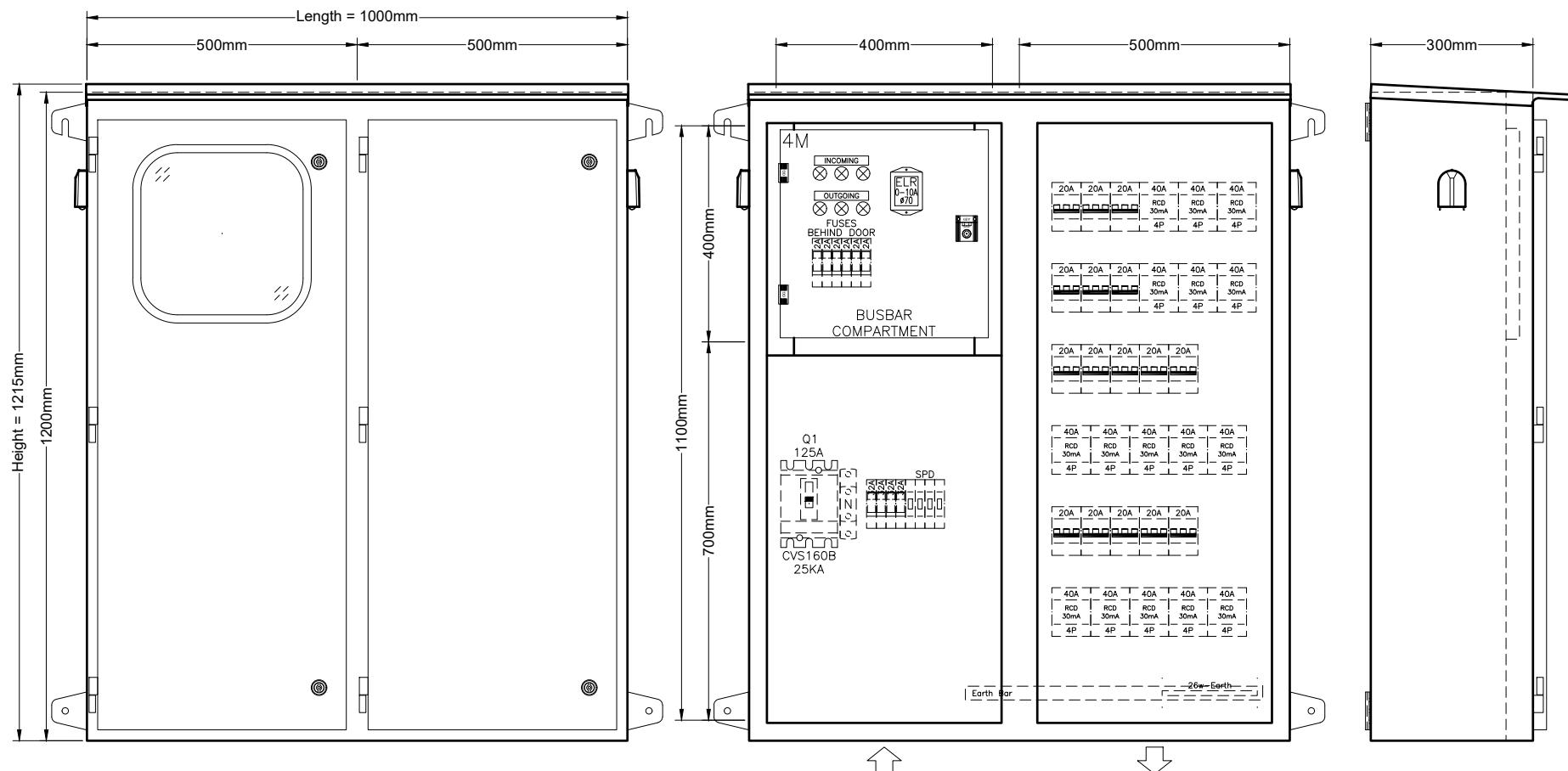
MCU-2R | 1

Gathergates

Power Up Your World

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD	CLIENT :	CHIN SENG ENGINEERING (S) PTE LTD	REV. NO.	AMENDMENTS	DATE	DRAWN BY :	RAKSH	DATE : 17.10.23	GATHERGATES SWITCHGEAR PTE LTD
	CONSULTANT :					CHECKED BY :		DATE :	
DRAWING TITLE : DB2-3A/L	OWNER :	DSTA				REF :	SCALE :	1:8/A4	 Gathergates Power Up Your World
						DWG NO.:	PN-21-01366-23-04604-0051-SL		

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DB2-AC WP

WM-WP0250 2

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO.

AMENDMENTS

DATE

DRAWN BY : XIAO LIN

DATE : 10.11.23

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

CHECKED BY :

DATE :

OWNER : DSTA

REF :

SCALE : 1:12/A4

DWG NO. :

PN

-21-01366-23-04604-0052-L

Gathergates
Power Up Your World

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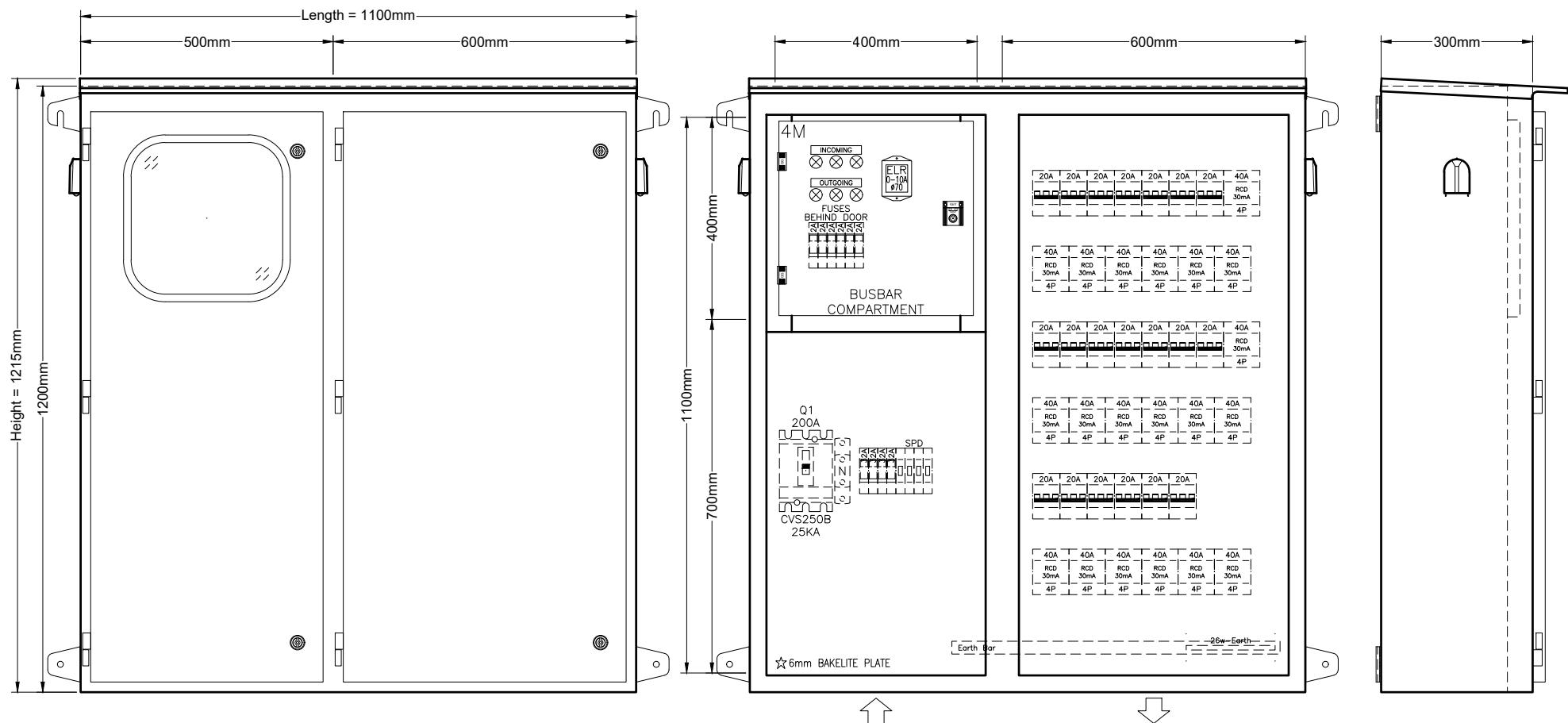
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PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD	CLIENT :	CHIN SENG ENGINEERING (S) PTE LTD	REV. NO.	AMENDMENTS	DATE	DRAWN BY :	XIAO LIN	DATE :	10.11.23	GATHERGATES SWITCHGEAR PTE LTD
	CONSULTANT :					CHECKED BY :		DATE :		
	OWNER :	DSTA				REF :	SCALE :	N.T.S	DWG NO. :PN-21-01366-23-04604-0052-S	
DRAWING TITLE : DB2-AC WP										Gathergates Power Up Your World

1 2 3 4 5 6 7 8



EDB2-AC WP

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO.

AMENDMENTS

DATE

DRAWN BY : XIAO LIN

DATE : 10.11.23

WM-WP0250 | 2

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

REV. NO.

AMENDMENTS

DATE

DRAWN BY : XIAO LIN

DATE : 10.11.23

GATHERGATES SWITCHGEAR PTE LTD

OWNER : DSTA

REV. NO.

AMENDMENTS

DATE

DRAWN BY : XIAO LIN

DATE : 10.11.23

CHECKED BY :

REF : DATE :

SCALE : 1:12/A4

DWG NO. : PN-21-01366-23-04604-0053-L

Gathergates
Power Up Your World

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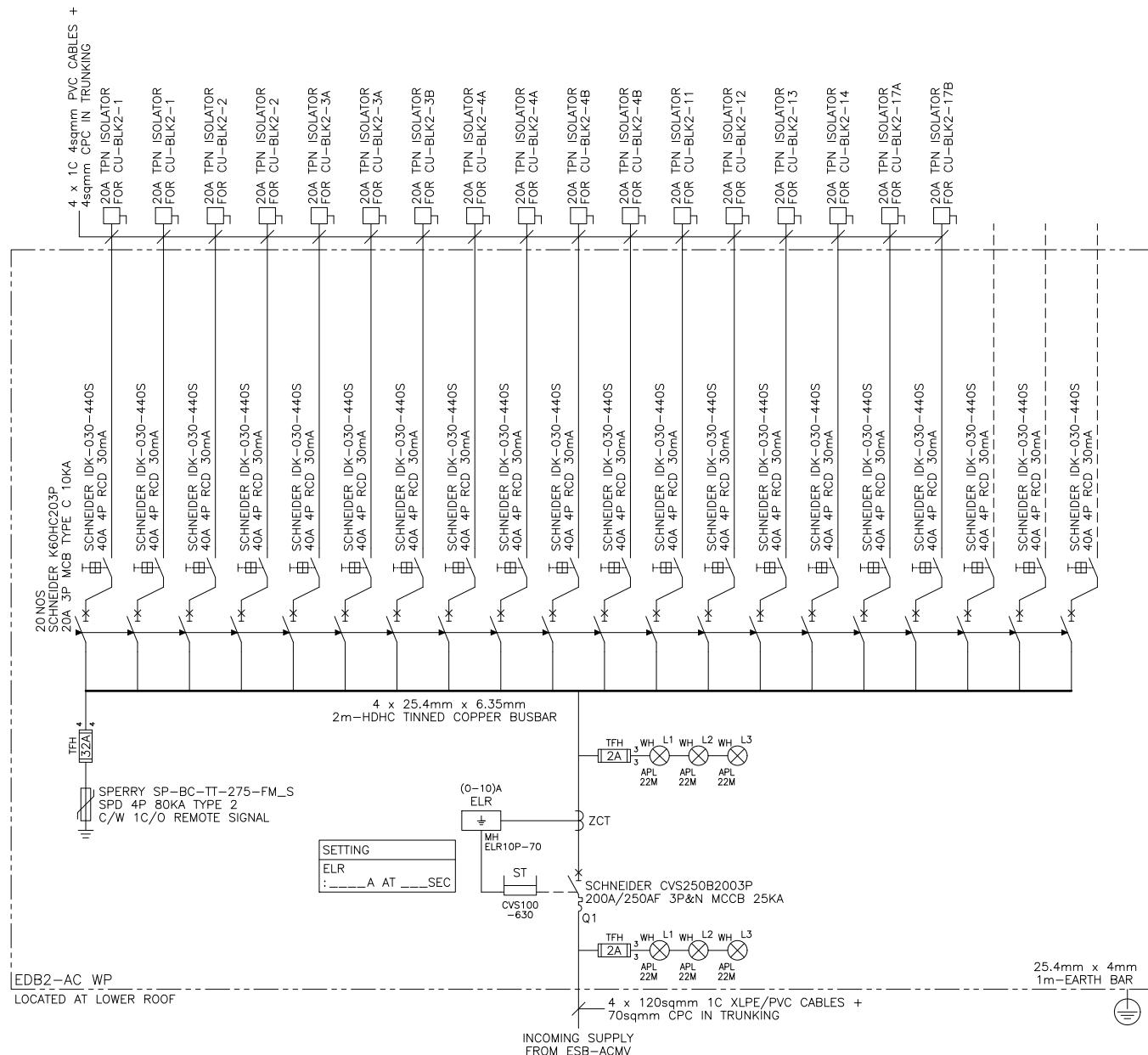
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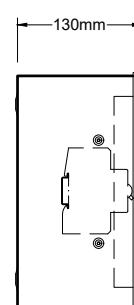
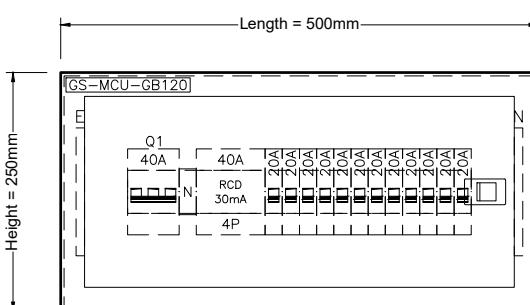
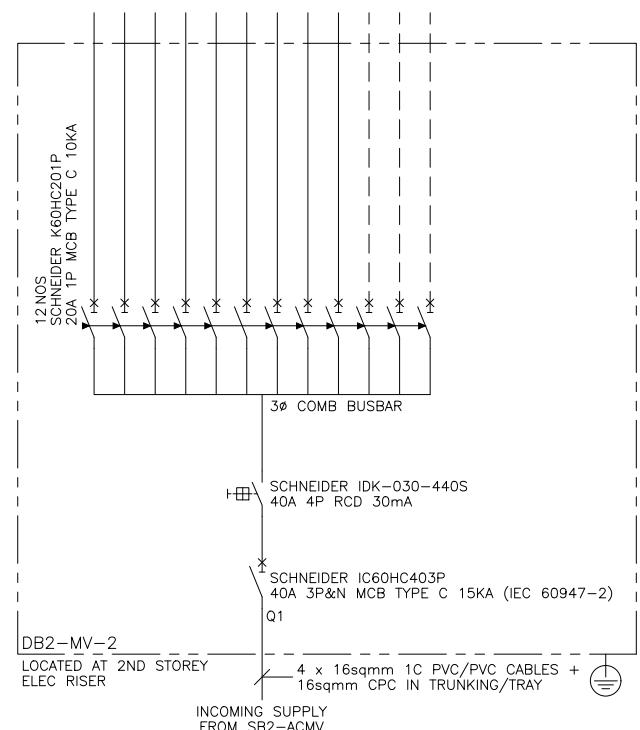
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DB2-MV-2

MCU-1R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO.

AMENDMENTS

DATE

DRAWN BY : RAKSH

DATE : 17.10.23

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

CHECKED BY :

DATE :

Gathergates

Power Up Your World

DRAWING TITLE : DB2-MV-2

OWNER : DSTA

REF :

SCALE : 1:8/A4

DWG NO. : PN-21-01366-23-04604-0054-SL

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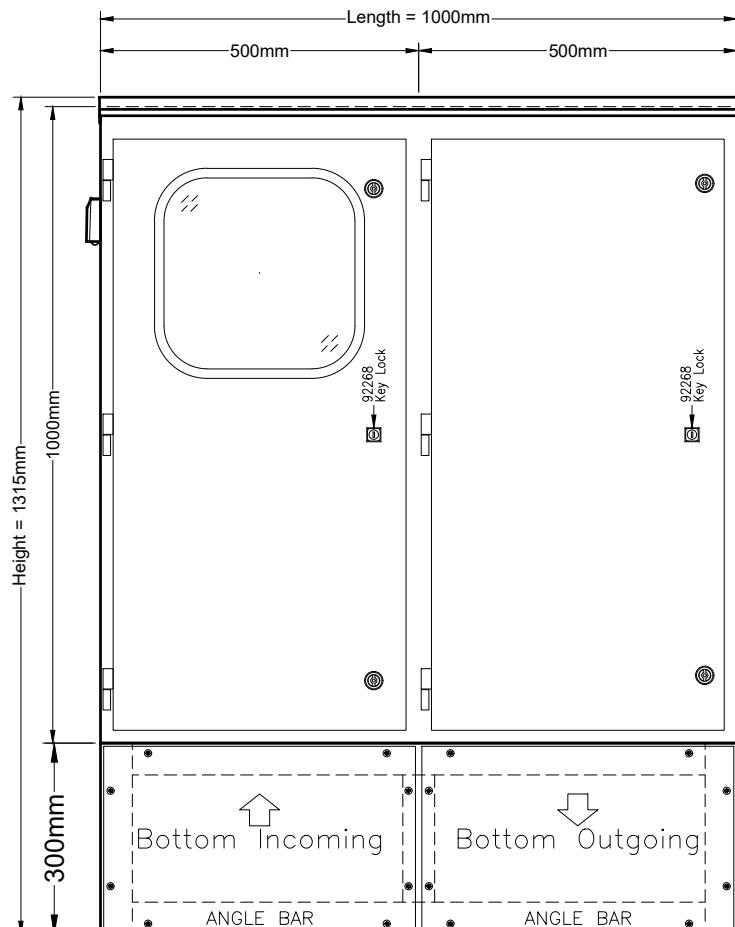
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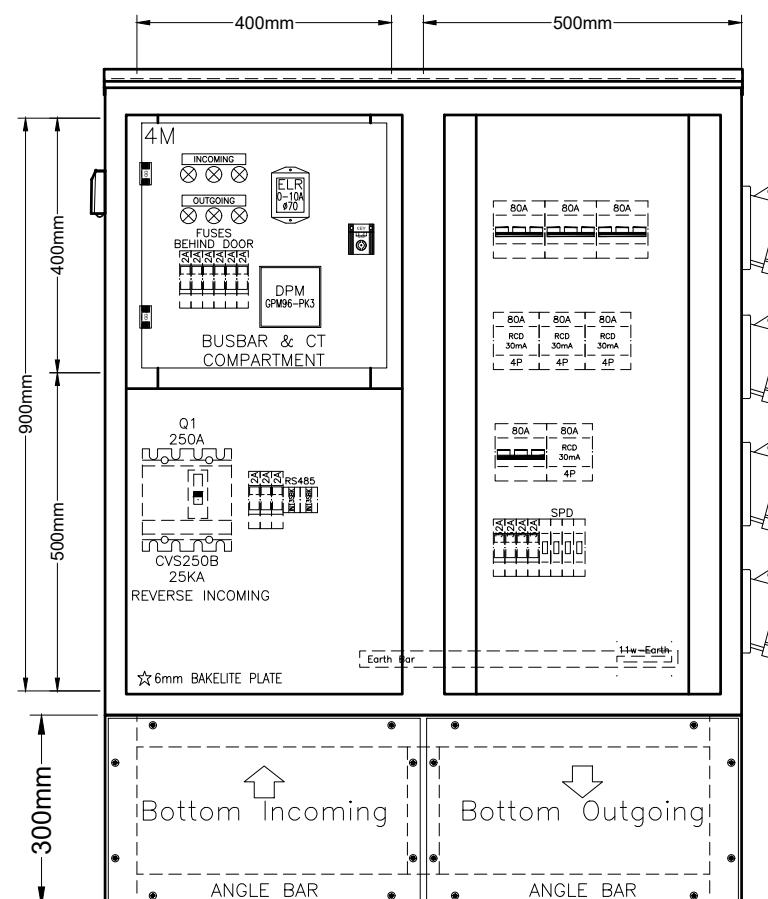
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ENCLOSURE SPECIFICATION

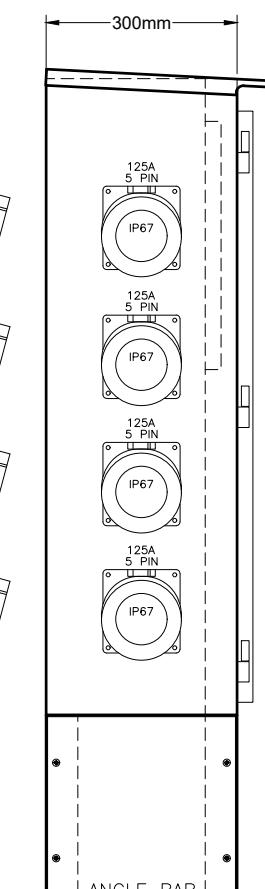
TYPE OF CONSTRUCTION:	WEATHERPROOF WALL MOUNTED
ACCESSIBILITY:	FRONT ACCESS
DEGREE OF PROTECTION:	IP 54
ENCLOSURE MATERIAL:	ELECTRO GALVANIZED STEEL SHEET
MATERIAL THICKNESS:	1.5mm (FRAME & DOOR)
COLOUR CODE:	RAL 7035 (GREY)
FINISHING:	THERMOSETTING EPOXY POWDER COATING



FRONT VIEW



OG-2



SIDE VIEW

WM-WP0250 | 2

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO.

AMENDMENTS

DATE

XIAO LIN

DATE : 11.11.23

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

01 ES-2023-04604-A-16 (RAKSH)

22.01.24

CHECKED BY :

DATE :

OWNER : DSTA

REF :

SCALE : 1:12/A4

DRAWING TITLE : OG-2

DWG NO. : PN-21-01366-23-04604-0055-L

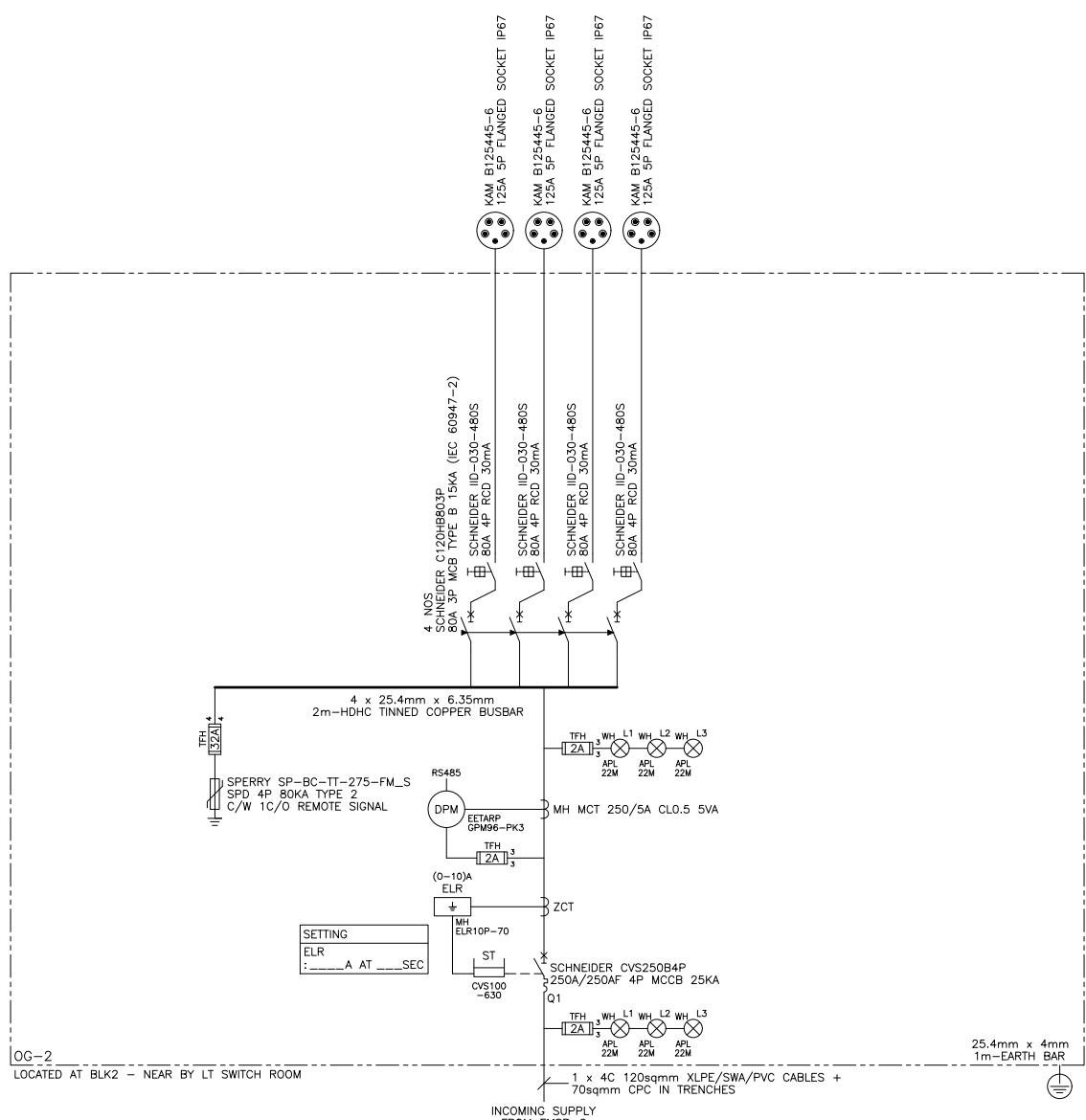
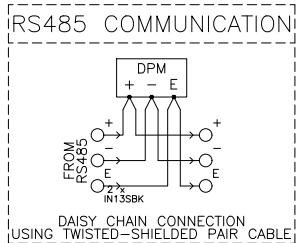
Power Up Your World

Gathergates

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PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

CONSULTANT :

OWNER : DSTA

REV. NO. AMENDMENTS

DATE

DRAWN BY : XIAO LIN

DATE : 11.11.23

GATHERGATES SWITCHGEAR PTE LTD

01 ES-2023-04604-A-16 (RAKSH)

22.01.24

CHECKED BY :

DATE :

REF :

SCALE :

N.T.S

DWG NO. : PN-21-01366-23-04604-0055-S

Gathergates
Power Up Your World

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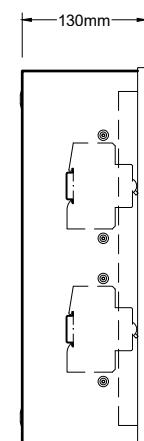
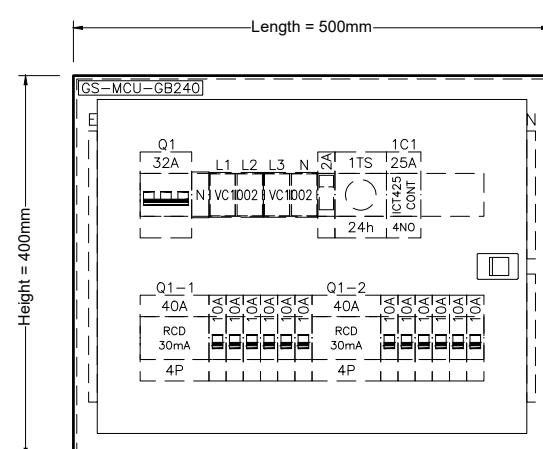
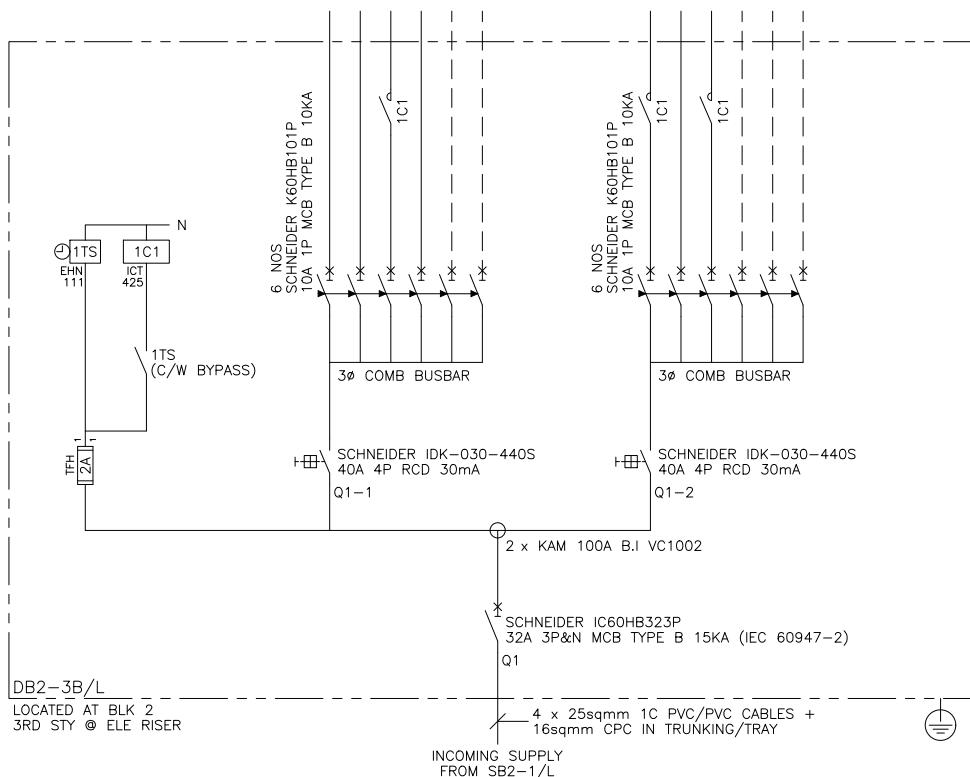
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DB2-3B/L

MCU-2R 1

PROJECT TITLE : D2019-00162-CONSTRUCTION OF 9 BUILDINGS AND A&A WORKS TO 2 BUILDINGS ALONG SEMBAWANG ROAD

CLIENT : CHIN SENG ENGINEERING (S) PTE LTD

REV. NO. AMENDMENTS

DATE DRAWN BY : RAKSH

DATE : 17.10.23

GATHERGATES SWITCHGEAR PTE LTD

CONSULTANT :

CHECKED BY :

DATE :

OWNER : DSTA

REF :

SCALE : 1:8/A4

Gathergates
Power Up Your World

DRAWING TITLE : DB2-3B/L

DWG NO. : PN-21-01366-23-04604-0056-SL

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