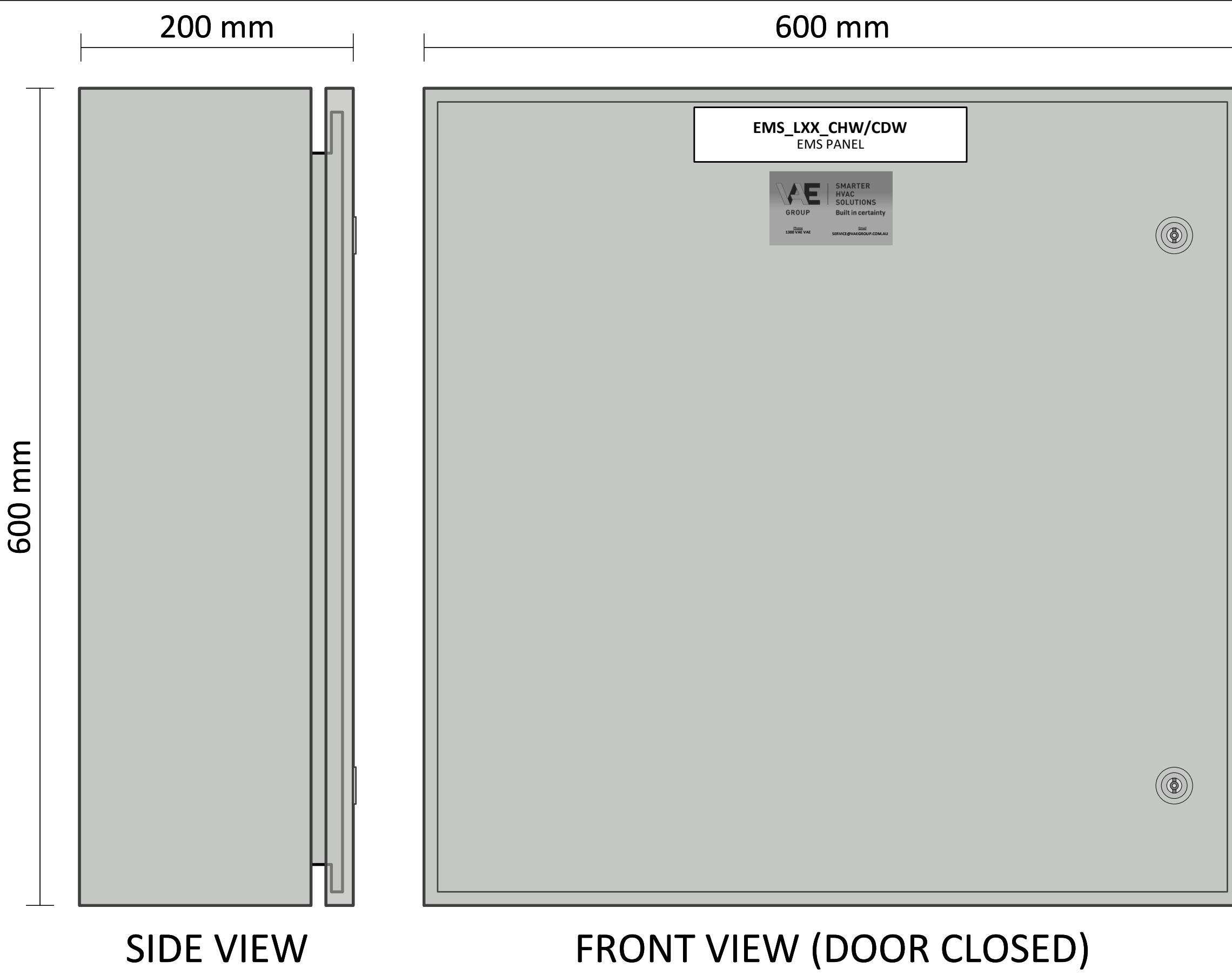
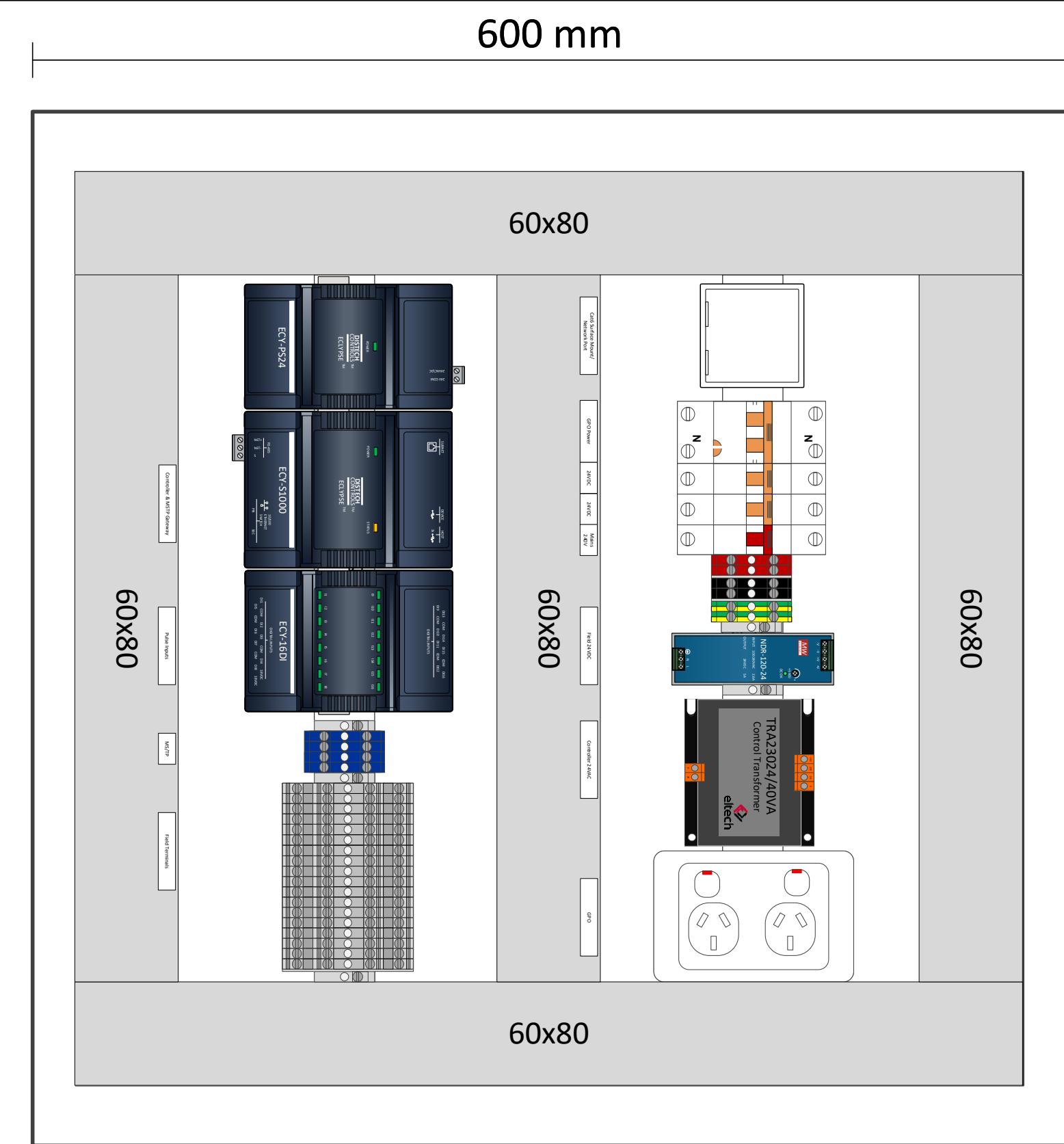


CABLE SCHEDULE

| TYPE | FUNCTION | LEGEND | SELECTION | | | | | |
|---|---|------------|---|-----------------------------------|--|--|--|--|
| OM3+ FIBRE BACKBONE | BACKBONE | — | MULTI CORE OM3+ (SM@RTCORE M50E LT UG PE NY OR EQUIVALENT) | | | | | |
| CAT6a-568B MAIN-NET | BACNET UDP/IP, SNMP, MQTT, ETC | — | 100Ohm TWISTED SCREENED 4 PAIR (BELDEN 2203ENH.00500 OR EQUIVALENT) | | | | | |
| CAT6a-568B SUB-NET | BACNET UDP/IP, MODBUS TCP/IP, ETC | - - - - - | | | | | | |
| EIA-485(RS-485) | BACNET MSTP | — | 100-110Ohm TWISTED SCREENED PAIR (BELDEN 9841, 24AWG OR EQUIVALENT) | | | | | |
| | MODBUS RTU | — | | | | | | |
| 1 PAIR BLACK INSTRUMENT CABLE | PERIPHERAL DEVICES\FIELD CABLING | — | TWISTED SCREENED PAIR (ELECTRA CABLE EAST7301P, 0.5mm ² OR EQUIVALENT) | | | | | |
| 2 PAIR BLACK INSTRUMENT CABLE | | — | TWISTED SCREENED PAIR (ELECTRA CABLE EAST7302P, 0.5mm ² OR EQUIVALENT) | | | | | |
| 3 PAIR BLACK INSTRUMENT CABLE | | — | TWISTED SCREENED PAIR (ELECTRA CABLE EAST7303P, 0.5mm ² OR EQUIVALENT) | | | | | |
| 4 PAIR BLACK INSTRUMENT CABLE | | — | TWISTED SCREENED PAIR (ELECTRA CABLE EAST7304P, 0.5mm ² OR EQUIVALENT) | | | | | |
| 6 PAIR BLACK INSTRUMENT CABLE | | — | TWISTED SCREENED PAIR (ELECTRA CABLE EAST7306P, 0.5mm ² OR EQUIVALENT) | | | | | |
| 3 CORE BLACK INSTRUMENT CABLE | | - - - - - | TWISTED SCREENED 3 CORE (ELECTRA CABLE EAS7503, 1.5mm ² OR EQUIVALENT) | | | | | |
| TWIN CORE CABLE | FIELD POWER CABLING | — | 2 CORE INSULATED, 2.5mm ² MINIMUM (ELECTRA CABLE AC76702-500BLUE OR EQUIVALENT) | | | | | |
| BUILDING WIRE | ENCLOSURE CABLING: 240VAC ACTIVE | — | SINGLE CORE INSULATED, 2.5mm ² MINIMUM RED (ELECTRA CABLE F1025VT-100RD OR EQUIVALENT) | | | | | |
| | ENCLOSURE CABLING: NEUTRAL | — | SINGLE CORE INSULATED, 2.5mm ² MINIMUM BLACK (ELECTRA CABLE F1025VT-100BK OR EQUIVALENT) | | | | | |
| | ENCLOSURE CABLING: EARTH | — | SINGLE CORE INSULATED, 2.5mm ² MINIMUM GREEN\YELLOW (ELECTRA CABLE F1025VT-100GRN/YEL OR EQUIVALENT) | | | | | |
| | ENCLOSURE CABLING: 24VAC ACTIVE | — | SINGLE CORE INSULATED, 2.5mm ² MINIMUM BROWN (ELECTRA CABLE F1025VT-100BR OR EQUIVALENT) | | | | | |
| | ENCLOSURE CABLING: 24VDC ACTIVE | — | SINGLE CORE INSULATED, 2.5mm ² MINIMUM ORANGE (ELECTRA CABLE F1025VT-100ORE OR EQUIVALENT) | | | | | |
| | ENCLOSURE CABLING: OV | — | SINGLE CORE INSULATED, 2.5mm ² MINIMUM GREY (ELECTRA CABLE F1025VT-100GY OR EQUIVALENT) | FC For Construction MZ 20/06/2025 | | | | |
| | ENCLOSURE CABLING: BMS INPUT | — | SINGLE CORE INSULATED, 2.5mm ² MINIMUM BLUE (ELECTRA CABLE F1025VT-100BLU OR EQUIVALENT) | REV DESCRIPTION DRAWN DATE | | | | |
| | ENCLOSURE CABLING: BMS OUTPUT | — | SINGLE CORE INSULATED, 2.5mm ² MINIMUM PINK (ELECTRA CABLE F1025VT-100PPL OR EQUIVALENT) | STATUS AS BUILT | | | | |
| LABEL HOLDER | WIRE IDENTIFICATION | x | 30mm LABEL HOLDER SLEEVE (LEGRAND MEMOCAB 37941 OR EQUIVALENT) | CLIENT | | | | |
| NOTE(s) | | | | | | | | |
| - | ALL CABLES\WIRES ARE TO BE UNIQUELY IDENTIFIED. EACH CABLE IS TO BE LABELLED AS PER THE CORRESPONDING INPUT\OUTPUT TERMINAL, EACH WIRE IS TO BE LABELED AS PER THIS WIRING DIAGRAM. | | | | | | | |
| - | ALL WIRES ARE TO BE BOOTLACED. | | | | | | | |
| PROJECT TITLE Rhodes Waterside – EMS & BMS Upgrade Rhodes | | | | | | | | |
| PROJECT NUMBER 501081 | | | | | | | | |
| DRAWING TITLE CABLE SCHEDULE PROJECT DETAILS | | | | | | | | |
| COMPANY VAE SMARTER HVAC SOLUTIONS Built in certainty | | | | | | | | |
| LEVEL 1/189 KENT STREET, SYDNEY NSW 2000 1300 VAE VAE VAEGROUP.COM.AU | | | | | | | | |
| DRAWN MZ | REVISION FC | CREATED | | | | | | |
| CHECKED AF | | 20/06/2025 | | | | | | |
| DOCUMENT SIZE A1 | SCALE | PAGE | | 1 OF 47 | | | | |
| DRAWING NUMBER VAE-501081-BMS-MASTER-DOCUMENT-01 | | | | | | | | |



SIDE VIEW



FRONT VIEW (DOOR OPENED)



TOP VIEW



BOTTOM VIEW

EMS_ENCLosure (TYPICAL)

LOCATION: Commercial & Retail Main Plant Areas

COLOUR: GREY (RAL7035)

DEPTH: 200mm (MINIMUM)

MATERIAL: 1.2mm MILD STEEL

IP RATING: IP44

NOTES: PLEASE REFER TO LABELLING DOCUMENT FOR MORE DETAIL.

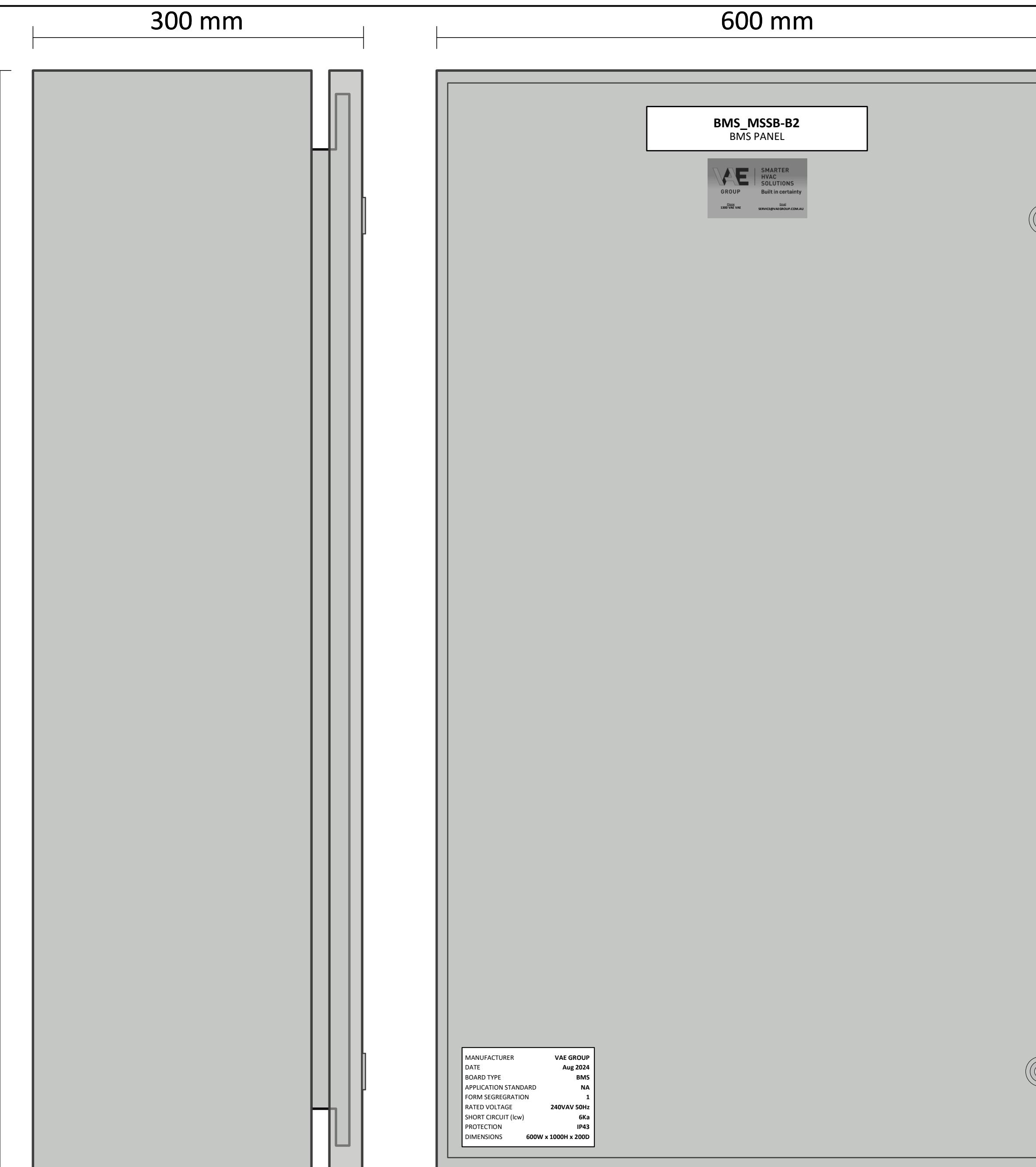
| SCHEMATIC LEGEND | |
|------------------|--|
| | MAIN SWITCH |
| | CIRCUIT BREAKER |
| | RESIDUAL CURRENT CIRCUIT BREAKER with OVER-CURRENT |
| | SINGLE POLE RELAY |
| | TERMINAL CONNECT END CLAMP (GREY) |
| | 4mm ² TERMINAL CONNECTOR (BLUE) |
| | 4mm ² TERMINAL CONNECTOR (RED) |
| | 4mm ² TERMINAL CONNECTOR (BLACK) |
| | 4mm ² TERMINAL CONNECTOR (GREY) |
| | 4mm ² TERMINAL CONNECTOR (EARTH) |
| | END\PARTITION PLATE (GREY) |
| | 4mm ² TERMINAL CONNECTOR (GREY) |
| | END\PARTITION PLATE (GREY) |
| | DOUBLE GENERAL PURPOSE OUTLET |
| | 230/24VAC CONTROL TRANSFORMER |
| | CAT6 SURFACE MOUNT BOX (2x RJ45 FEMALE) |

| | | | |
|------------------------|------------------|-------|------------|
| FC | For Construction | MZ | 20/06/2025 |
| REV | DESCRIPTION | DRAWN | DATE |
| STATUS AS BUILT | | | |
| CLIENT | | | |
| | | | |

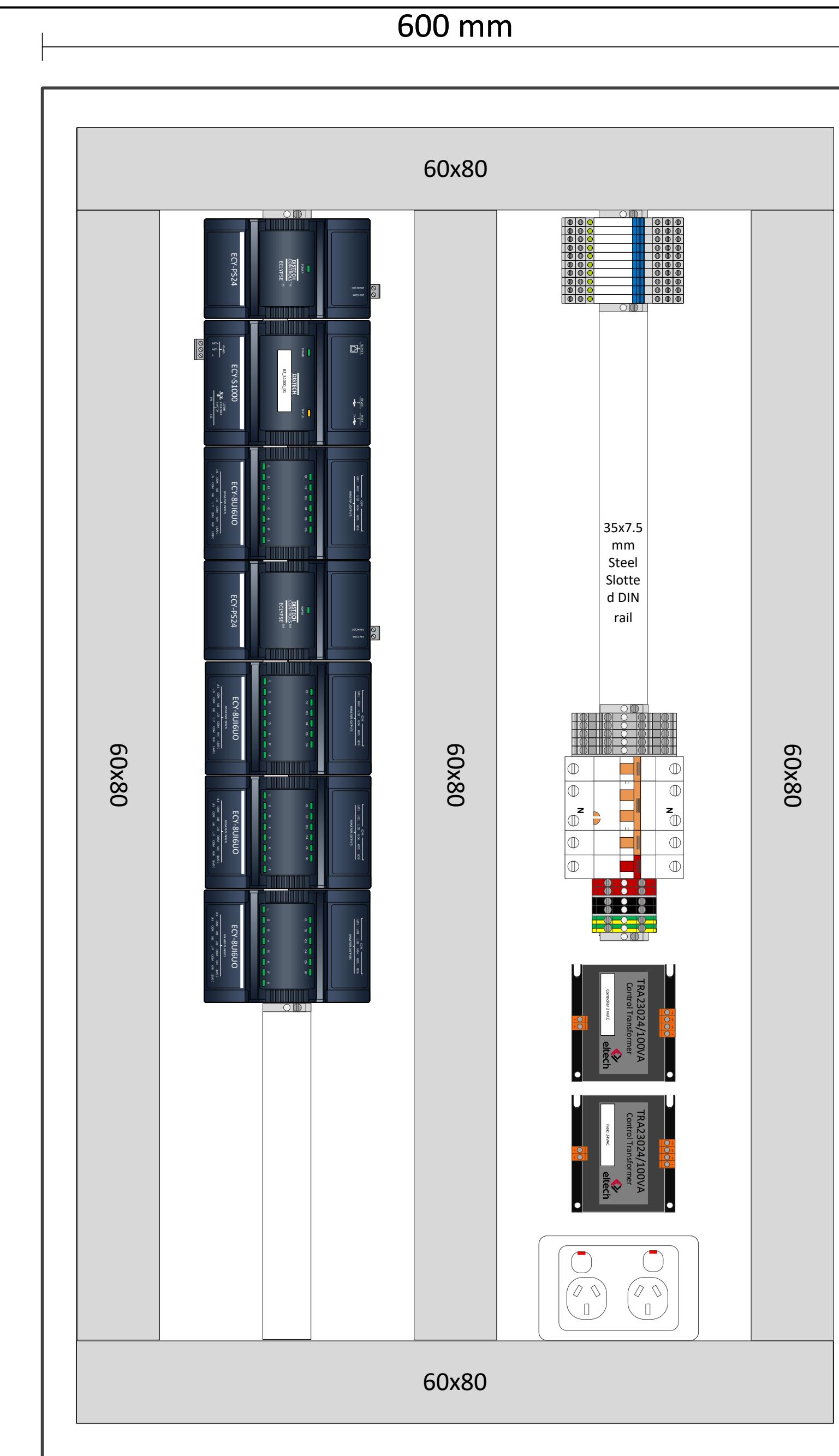
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|----------------|--|
| PROJECT TITLE | Rhodes Waterside – EMS & BMS Upgrade |
| | Rhodes |
| PROJECT NUMBER | 501081 |
| DRAWING TITLE | ENC-EMS_TYPICAL BOARD LAYOUT |
| COMPANY | SMARTER HVAC SOLUTIONS Built in certainty |

| |
|--|
| LEVEL 1/189 KENT STREET, SYDNEY NSW 2000 |
| 1300 VAE VAE |
| VAEGROUP.COM.AU |
| DRAWN MZ |
| CHECKED AF |

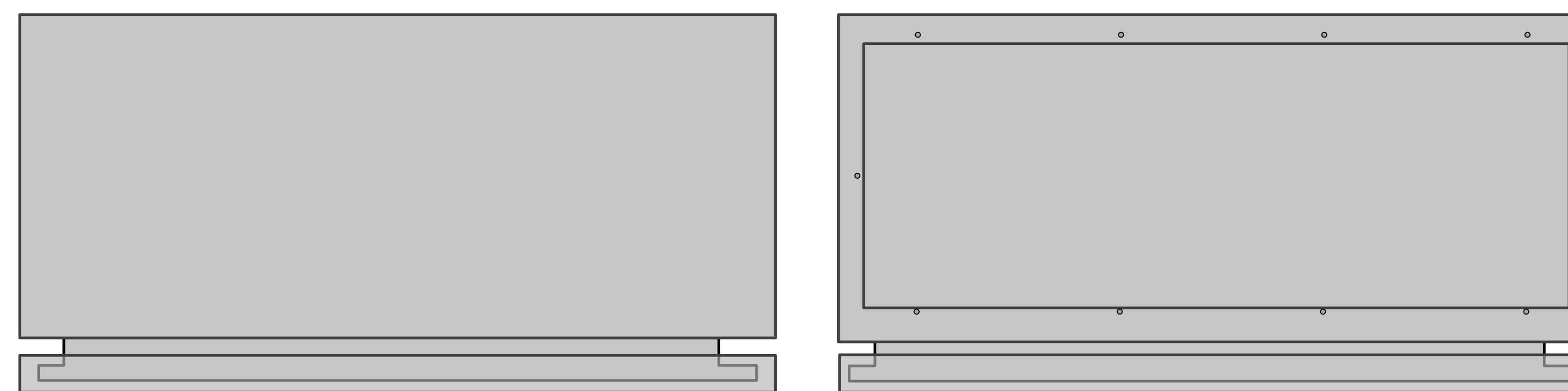
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|--|-------|---------|
| DOCUMENT SIZE | SCALE | PAGE |
| A1 | 1:3 | 2 OF 47 |
| DRAWING NUMBER VAE-501081-BMS-MASTER-DOCUMENT-02 | | |



SIDE VIEW



FRONT VIEW (DOOR OPENED)



TOP VIEW

BOTTTOM VIEW

EMS_ENCLOSURE (TYPICAL)

LOCATION: Commercial & Retail Main Plant Areas

COLOUR: GREY (RAL7035)

DEPTH: 200mm (MINIMUM)

MATERIAL: 1.2mm MILD STEEL

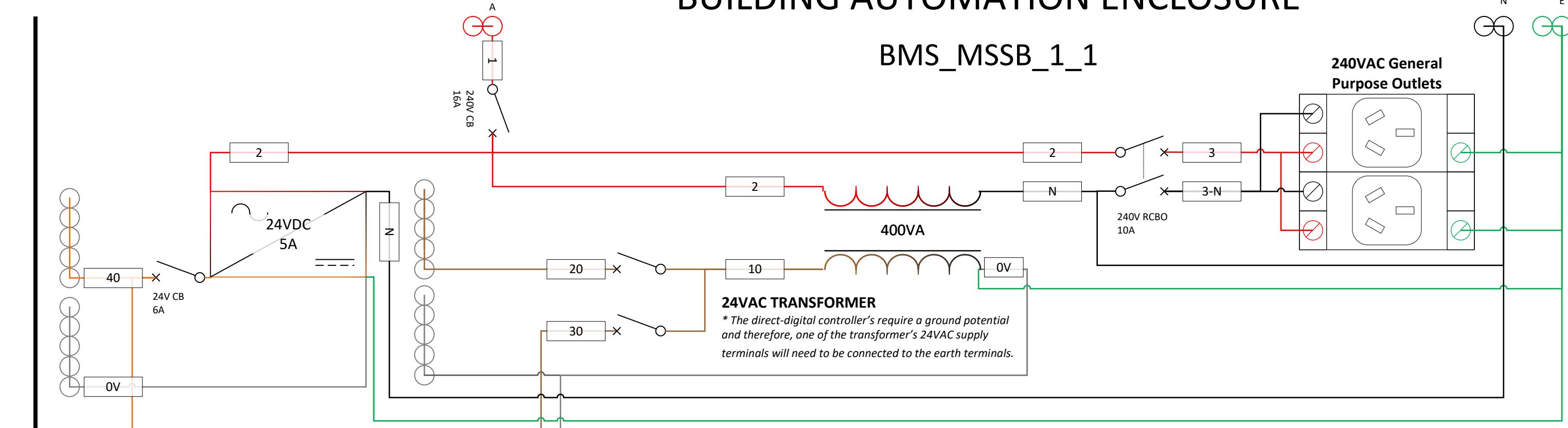
IP RATING: IP4

NOTES: PLEASE REFER TO LABELLING DOCUMENT FOR MORE DETAIL.

| SCHEMATIC LEGEND | | | |
|------------------|--|----------|--|
| | | | MAIN SWITCH |
| | | | CIRCUIT BREAKER |
| | | | RESIDUAL CURRENT CIRCUIT BREAKER with OVER-CURRENT |
| | | | SINGLE POLE RELAY |
| | | | TERMINAL CONNECT END CLAMP (GREY) |
| | | | 4mm ² TERMINAL CONNECTOR (BLUE) |
| | | | 4mm ² TERMINAL CONNECTOR (RED) |
| | | | 4mm ² TERMINAL CONNECTOR (BLACK) |
| | | | 4mm ² TERMINAL CONNECTOR (GREY) |
| | | | 4mm ² TERMINAL CONNECTOR (EARTH) |
| | | | END\PARTITION PLATE (GREY) |
| | | | END\PARTITION PLATE (GREY) |
| | | | DOUBLE GENERAL PURPOSE OUTLET |
| | | | 230/24VAC CONTROL TRANSFORMER |
| | | | CAT6 SURFACE MOUNT BOX (2x RJ45 FEMALE) |
| FC | For Construction | MZ | 20/06/2025 |
| REV | DESCRIPTION | DRAWN | DATE |
| STATUS | AS BUILT | | |
| CLIENT | | | |
| PROJECT TITLE | Rhodes Waterside – EMS & BMS Upgrade | | |
| PROJECT NUMBER | 501081 | | |
| DRAWING TITLE | ENC-BMS_XX BOARD LAYOUT | | |
| COMPANY | SMARTER HVAC SOLUTIONS Built in certainty | | |
| DRAWN | MZ | REVISION | CREATED |
| CHECKED | AF | FC | 20/06/2025 |
| DOCUMENT SIZE | SCALE | PAGE | 3 OF 47 |
| DRAWING NUMBER | VAE-501081-BMS-MASTER-DOCUMENT-03 | | |

BUILDING AUTOMATION ENCLOSURE

BMS_MSSB_1_1



| SCHEMATIC LEGEND | |
|------------------|-------------------------------------|
| | CIRCUIT BREAKER |
| | RESIDUAL CURRENT CIRCUIT BREAKER |
| | 240/24VAC TRANSFORMER |
| | 4MM DIN RAIL MOUNT TERMINAL (RED) |
| | 4MM DIN RAIL MOUNT TERMINAL (BLACK) |
| | 4MM DIN RAIL MOUNT TERMINAL (EARTH) |
| | 4MM DIN RAIL MOUNT TERMINAL (BLUE) |
| | 4MM DIN RAIL MOUNT TERMINAL (GREY) |
| | SWITCHBOARD WIRING |
| | FIELD WIRING |
| | CABLE LABEL\ SLEEVE |

FIELD

INPUTS

HEX_LA-1_SUPPLY_PRESSURE

PART NUMBER: DISTECH - PS-2AEDP
LOCATION: SUPPLY AIR DUCT 2M DOWN STREAM OF FAN, ON A STRAIGHT DUCT.

HEX_L-1_SUPPLY_TEMPERATURE

PART NUMBER: DISTECH - TS-DI-200
LOCATION: SUPPLY AIR DUCT 2M DOWN STREAM OF FAN, ON A STRAIGHT DUCT.

HEX_L-1_RETURN_TEMPERATURE

PART NUMBER: DISTECH - TS-DI-200
LOCATION: RETURN AIR DUCT 2M UP STREAM OF FAN, ON A STRAIGHT DUCT.

HEX_LA-1_FILTER_PRESSURE

PART NUMBER: DISTECH - PS-2AEDP
LOCATION: ACCROSS FILTER BANK.
* Factory default settings

KITCHEN_LOW_SPEED

PART NUMBER: KITCHEN WALL SWITCH
LOCATION: KITCHEN

KITCHEN_HIGH_SPEED

PART NUMBER: KITCHEN WALL SWITCH
LOCATION: KITCHEN

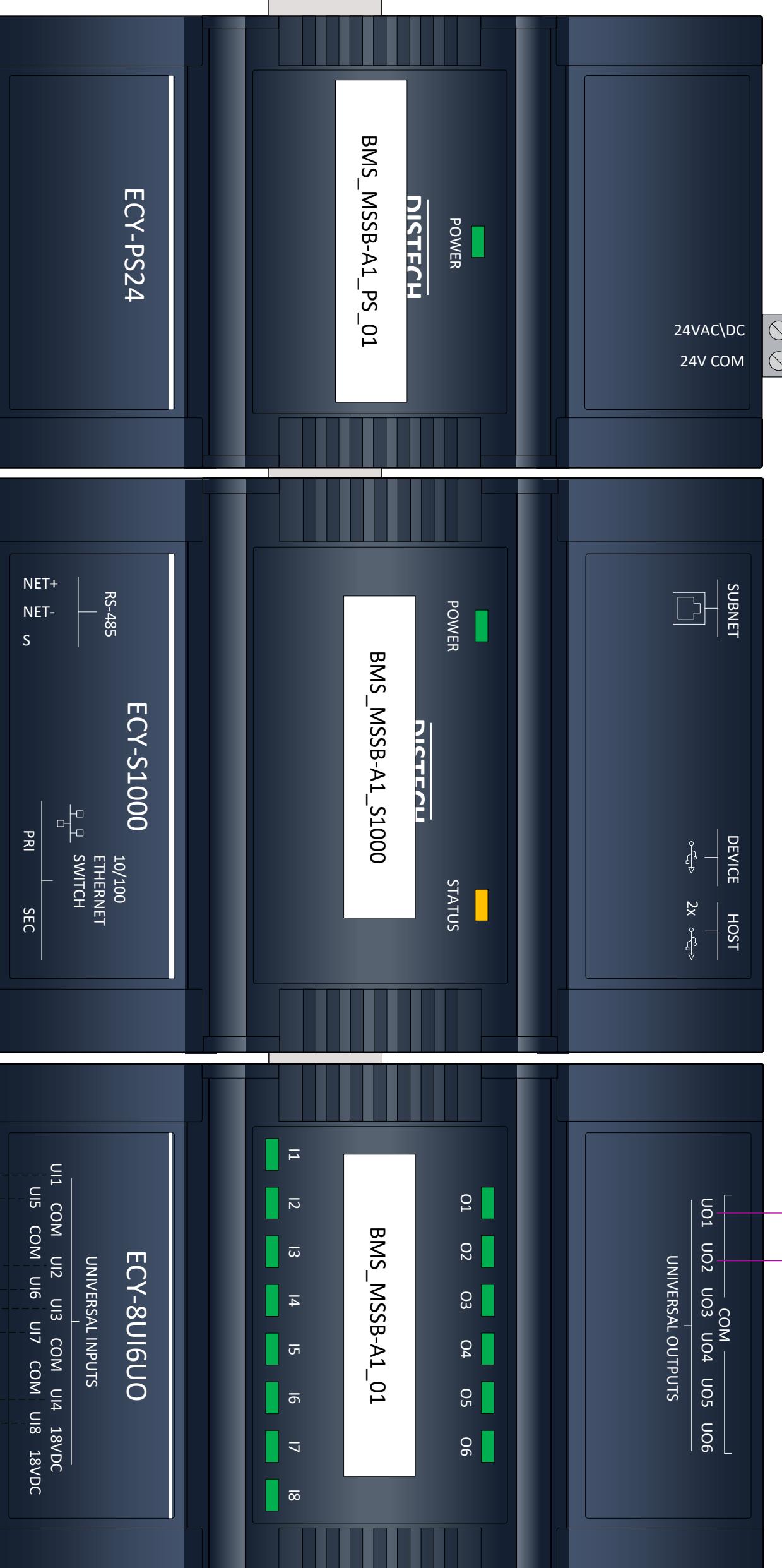
KIOSK_LOW_SPEED

PART NUMBER: KIOSK WALL SWITCH
LOCATION: KIOSK

KIOSK_HIGH_SPEED

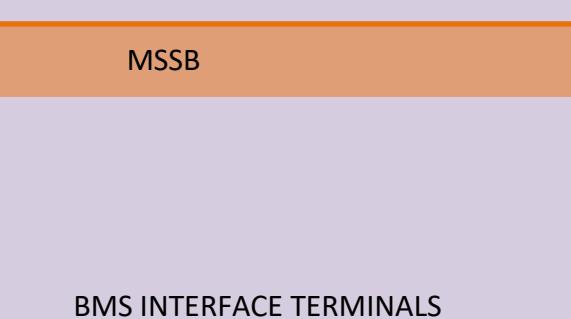
PART NUMBER: KIOSK WALL SWITCH
LOCATION: KIOSK

BOARD



FIELD

OUTPUTS



| FUNCTION | CABLE | TERMINAL |
|------------|-----------|----------|
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

FC For Construction MZ 20/06/2025

REV DESCRIPTION DRAWN DATE

STATUS AS BUILT

CLIENT

Mirvac

PROJECT TITLE Rhodes Waterside – EMS & BMS Upgrade Rhodes

PROJECT NUMBER 501081

DRAWING TITLE WD-BMS_XX WIRING DIAGRAM

COMPANY VAE GROUP SMARTER HVAC SOLUTIONS Built in certainty

LEVEL 1/189 KENT STREET, SYDNEY NSW 2000
1300 VAE VAE
VAEGROUP.COM.AU

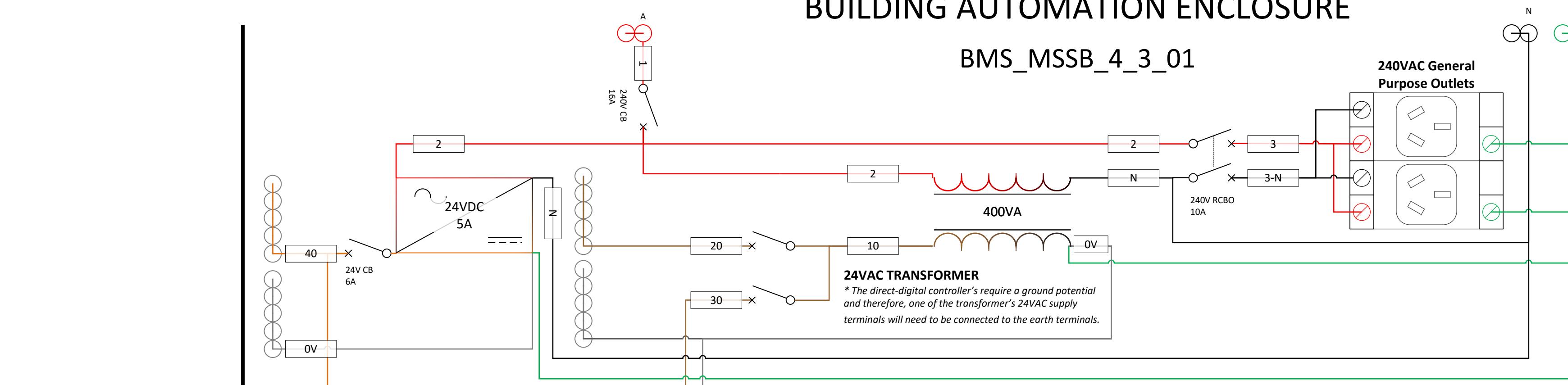
DRAWN MZ REVISION FC CREATED
CHECKED AF NTS 20/06/2025

DOCUMENT SIZE A1 PAGE 4 OF 47

DRAWING NUMBER VAE-501081-BMS-MASTER-DOCUMENT-04

BUILDING AUTOMATION ENCLOSURE

BMS_MSSB_4_3_01



FIELD

INPUTS

AHU_04_03_SA_Press

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

AHU_04_03_SA_Temp

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

AHU_04_03_RA_Temp

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

AHU_04_03_RA_Hum

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

AHU_04_03_RA_CO2

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

AHU_04_03_MA_Temp

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

AHU_04_03_RA_Filter

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

AHU_04_03_RM_Temp_01

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

KEF_04_01_EF_Status

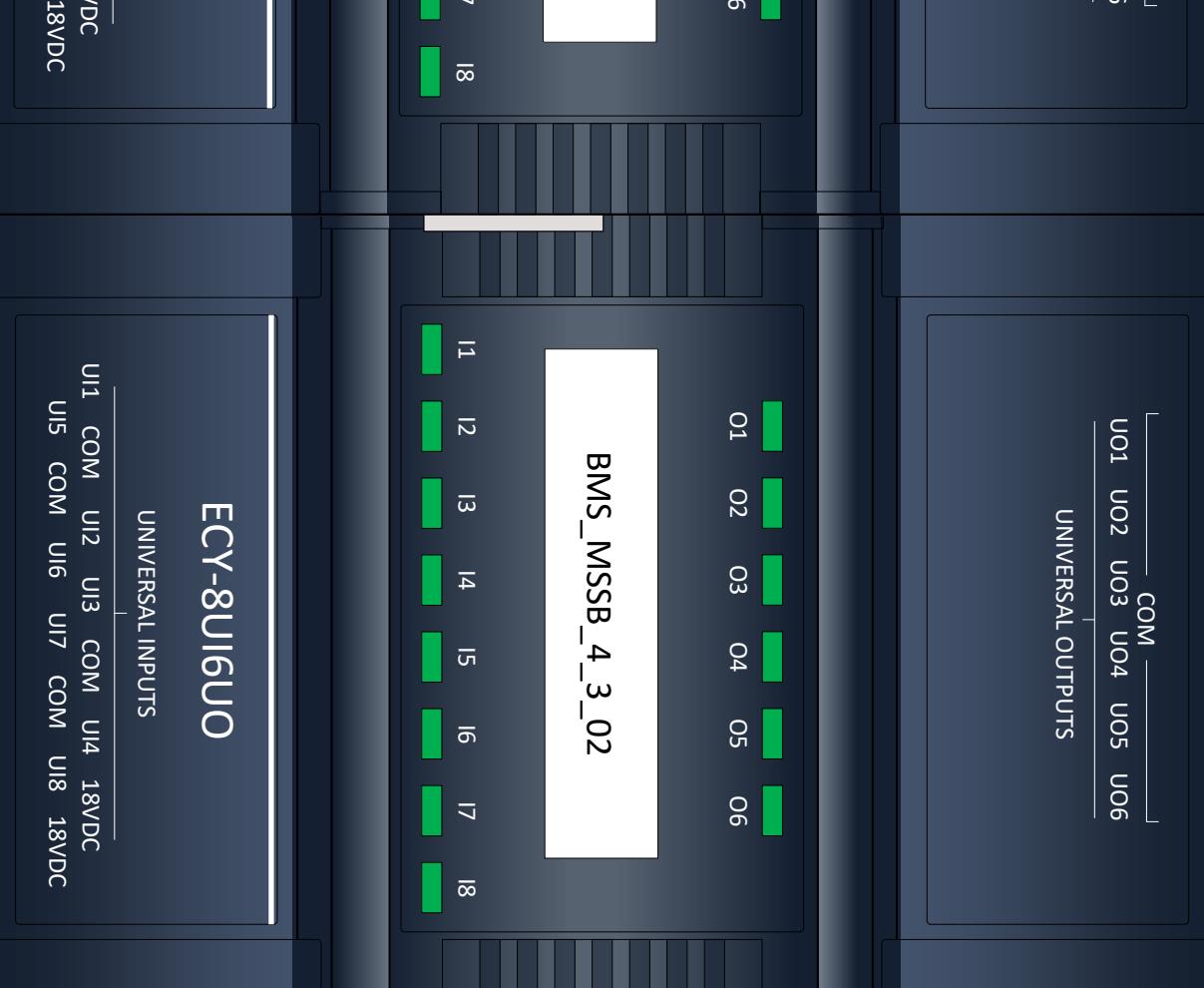
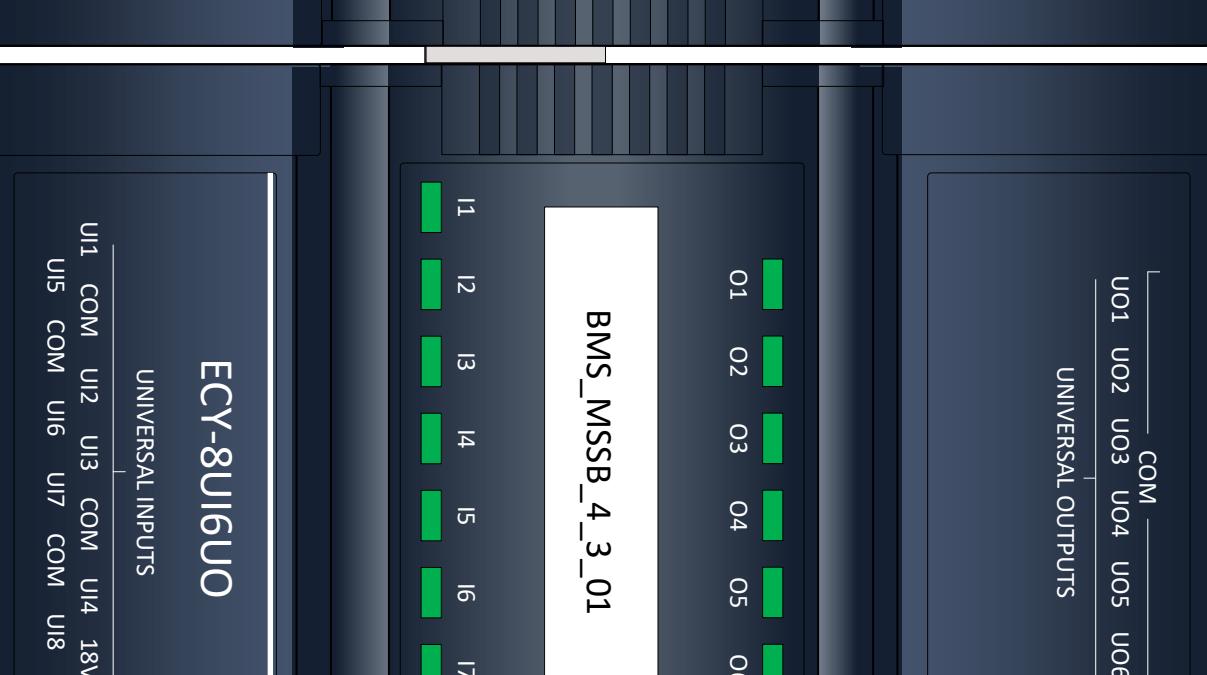
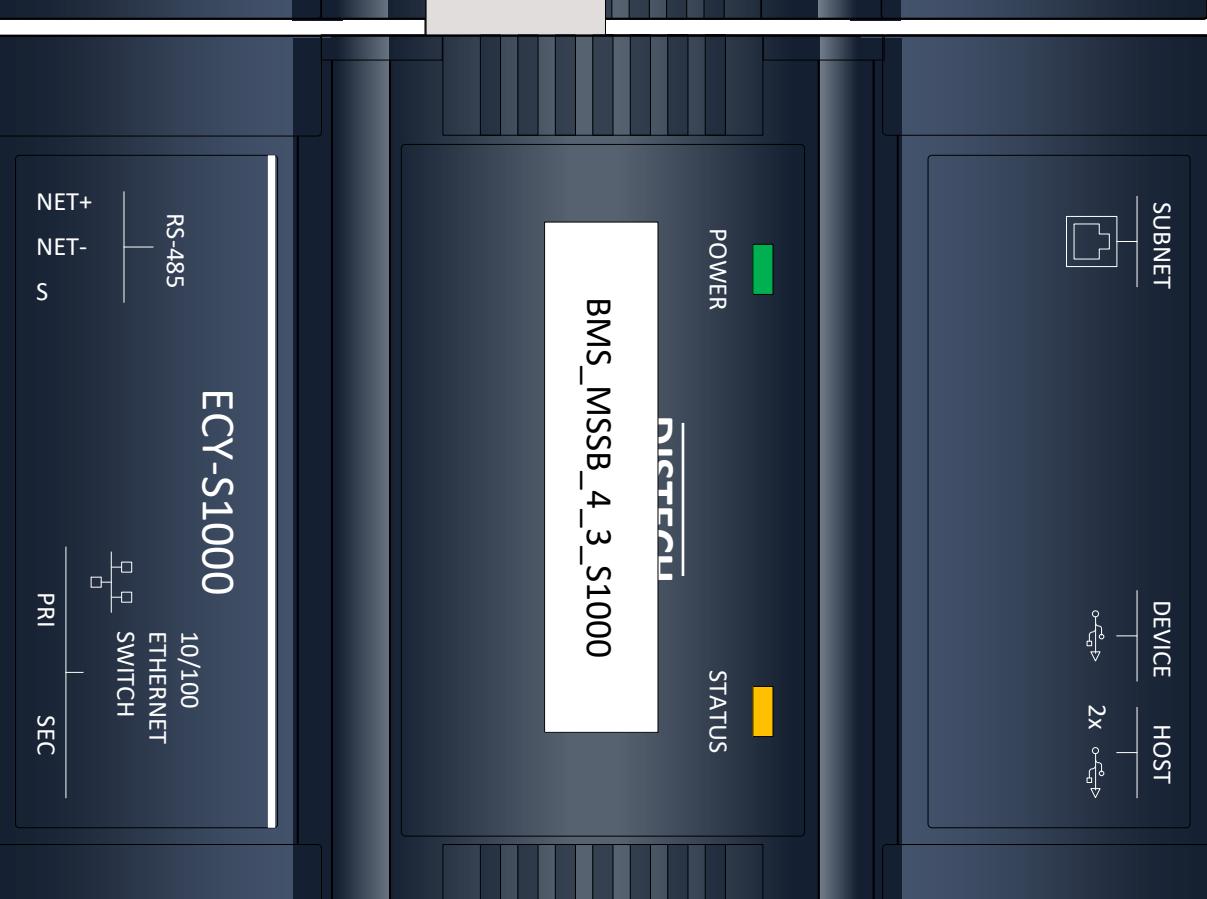
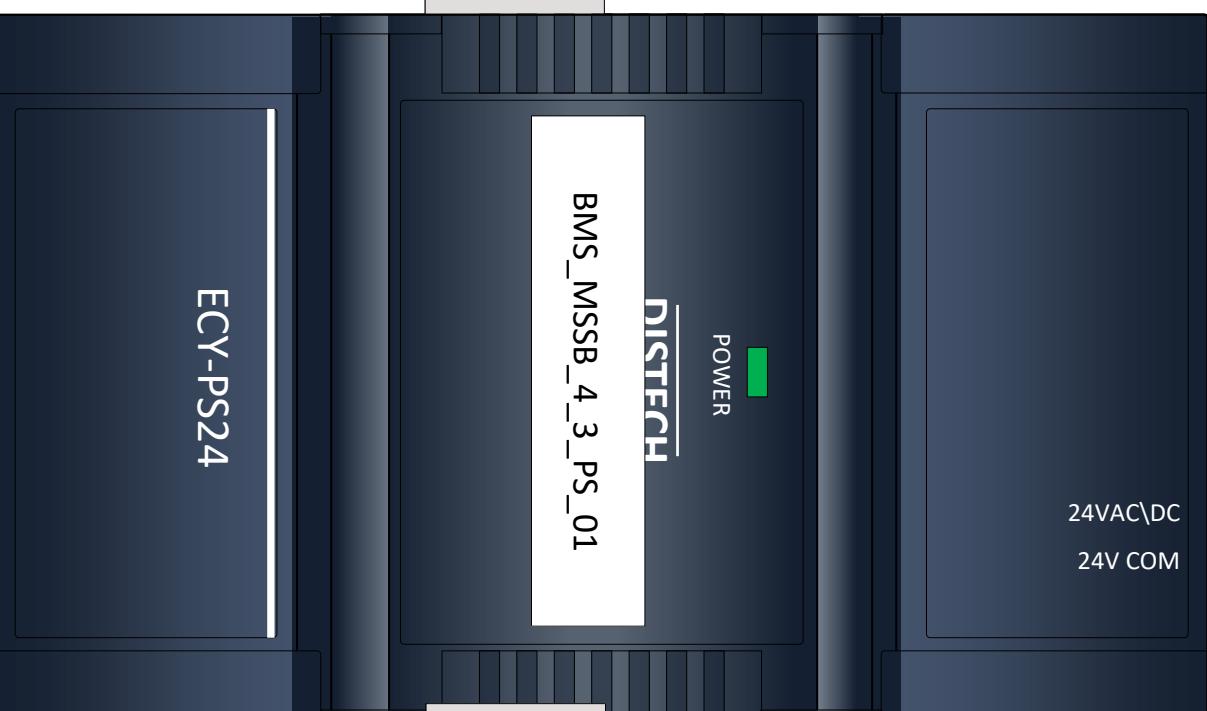
PART NUMBER: EXISTING
LOCATION: PLANT ROOM

KEF_04_02_EF_Status

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

ETHERNET CONNECTION

BOARD



OUTPUTS

AHU_04_03_SF_Enable

PART NUMBER: 12VDC INTERFACE RELAY
LOCATION: BUILDING AUTOMATION ENCLOSURE.

AHU_04_03_SF_Speed

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

AHU_04_03_CHVV

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

AHU_04_03_RAD

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

AHU_04_03_OAD

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

AHU_04_03_MOAD_CMD

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

KEF_04_01_EF_Enable

PART NUMBER: 12VDC INTERFACE RELAY
LOCATION: BUILDING AUTOMATION ENCLOSURE.

KEF_04_01_EF_Speed

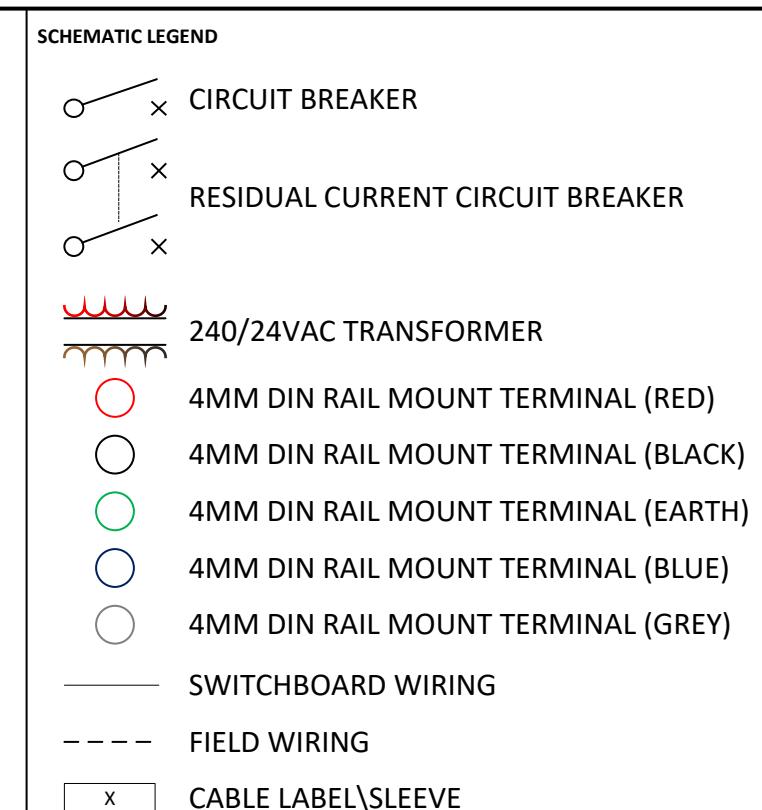
PART NUMBER: EXISTING
LOCATION: PLANT ROOM

KEF_04_02_EF_Enable

PART NUMBER: 12VDC INTERFACE RELAY
LOCATION: BUILDING AUTOMATION ENCLOSURE.

KEF_04_02_EF_Speed

PART NUMBER: EXISTING
LOCATION: PLANT ROOM



WIRING LEGEND

| FUNCTION | CABLE | TERMINAL |
|------------|-----------|----------|
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

| | | | |
|--------|------------------|-------|------------|
| FC | For Construction | MZ | 20/06/2025 |
| REV | DESCRIPTION | DRAWN | DATE |
| STATUS | AS BUILT | | |
| CLIENT | | | |

PROJECT TITLE
Rhodes Waterside – EMS & BMS Upgrade
Rhodes

PROJECT NUMBER
501081

DRAWING TITLE
MSSB-4.3-01
WIRING DIAGRAM

COMPANY

SMARTER HVAC SOLUTIONS
Built in certainty

LEVEL 1/189 KENT STREET, SYDNEY NSW 2000
1300 VAE VAE
VAEGROUP.COM.AU

| | | | | |
|---------------|----|----------|-----|------------|
| DRAWN | MZ | REVISION | FC | CREATED |
| CHECKED | AF | | | 20/06/2025 |
| DOCUMENT SIZE | A1 | SCALE | NTS | PAGE |
| | | | | 5 OF 47 |

DRAWING NUMBER
VAE-501081-BMS-MASTER-DOCUMENT-05

BUILDING AUTOMATION ENCLOSURE

BMS_MSSB_4_3_02

FIELD

INPUTS

AHU_04_04_SA_Press

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

AHU_04_04_SA_Temp

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

AHU_04_04_RA_Temp

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

AHU_04_04_RA_Hum

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

AHU_04_04_RA_CO2

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

AHU_04_04_MA_Temp

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

AHU_04_04_RA_Filter

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

AHU_04_04_RM_Temp_01

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

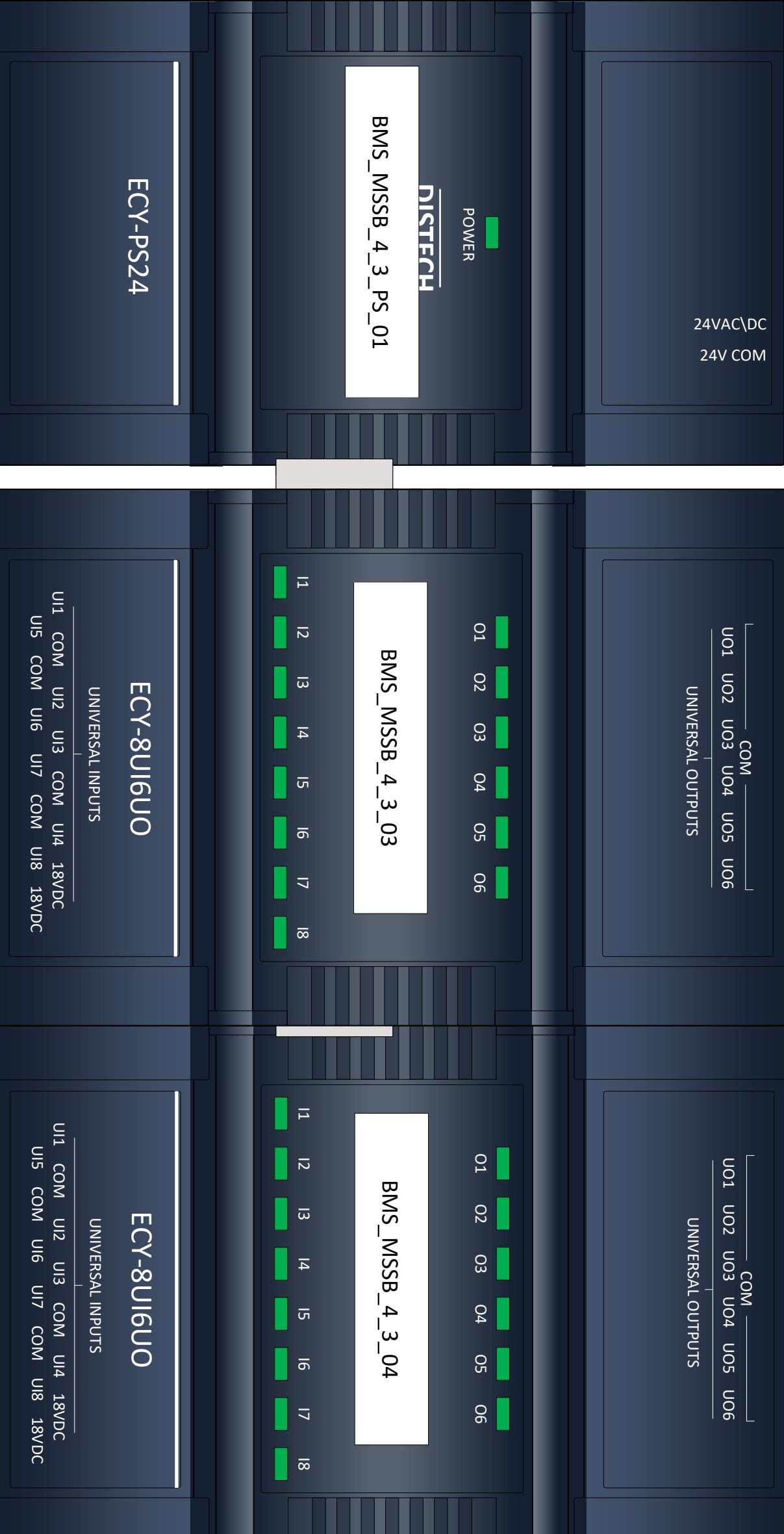
KEF_04_03_EF_Status

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

KEF_04_04_EF_Status

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

BOARD



FIELD

OUTPUTS

AHU_04_04_SF_Enable

PART NUMBER: 12VDC INTERFACE RELAY
LOCATION: BUILDING AUTOMATION ENCLOSURE.

AHU_04_04_SF_Speed

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

AHU_04_04_CHWV

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

AHU_04_04_RAD

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

AHU_04_04_OAD

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

AHU_04_04_MOAD_CMD

PART NUMBER: EXISTING
LOCATION: PLANT ROOM

KEF_04_03_EF_Enable

PART NUMBER: 12VDC INTERFACE RELAY
LOCATION: BUILDING AUTOMATION ENCLOSURE.

KEF_04_03_EF_Speed

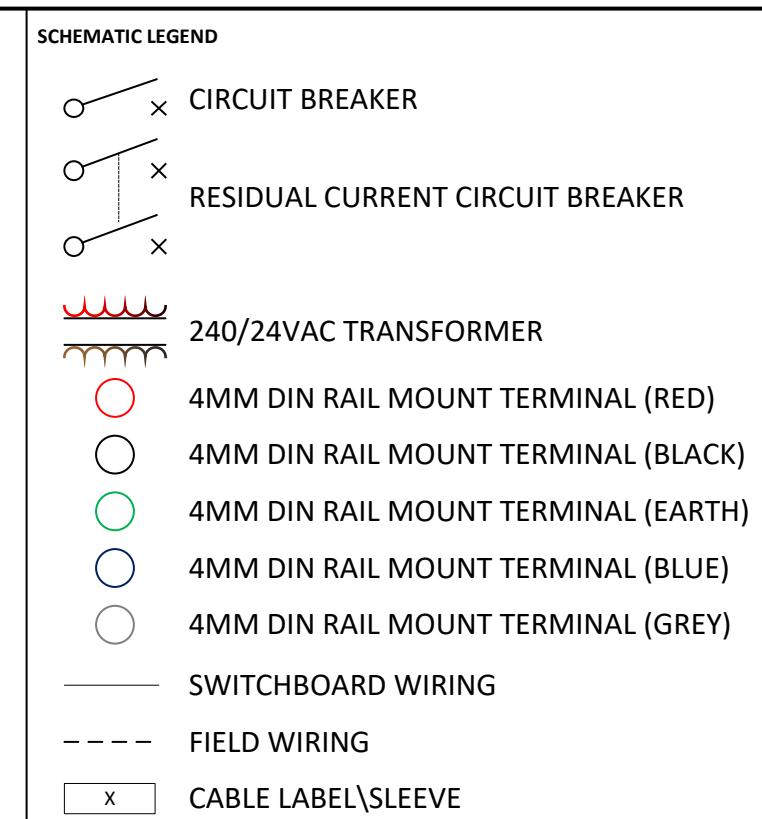
PART NUMBER: EXISTING
LOCATION: PLANT ROOM

KEF_04_04_EF_Enable

PART NUMBER: 12VDC INTERFACE RELAY
LOCATION: BUILDING AUTOMATION ENCLOSURE.

KEF_04_04_EF_Speed

PART NUMBER: EXISTING
LOCATION: PLANT ROOM



WIRING LEGEND

| FUNCTION | CABLE | TERMINAL |
|------------|-----------|----------|
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

| | | | |
|--------|------------------|-------|------------|
| FC | For Construction | MZ | 20/06/2025 |
| REV | DESCRIPTION | DRAWN | DATE |
| STATUS | AS BUILT | | |
| CLIENT | | | |
| | | | |



PROJECT TITLE
Rhodes Waterside – EMS & BMS Upgrade

Rhodes

PROJECT NUMBER
501081

DRAWING TITLE
MSSB-4.3-02
WIRING DIAGRAM

COMPANY
VAE GROUP SMARTER HVAC SOLUTIONS
Built in certainty

LEVEL 1/189 KENT STREET, SYDNEY NSW 2000
1300 VAE VAE
VAEGROUP.COM.AU

| | | |
|---------------|----------------|-----------------------|
| DRAWN MZ | REVISION FC | CREATED 20/06/2025 |
| CHECKED AF | | |

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|---------------------|--------------|-----------------|
| DOCUMENT SIZE A1 | SCALE NTS | PAGE 6 OF 47 |
|---------------------|--------------|-----------------|

DRAWING NUMBER
VAE-501081-BMS-MASTER-DOCUMENT-06

BUILDING AUTOMATION ENCLOSURE

BMS_MSSB_4_3_02

FIELD

INPUTS

KSF_04_06_EF_Status
PART NUMBER: EXISTING
LOCATION: PLANT ROOM

KSF_04_07_EF_Status
PART NUMBER: EXISTING
LOCATION: PLANT ROOM

KSF_04_06_RA_FLT_S
PART NUMBER: EXISTING
LOCATION: PLANT ROOM

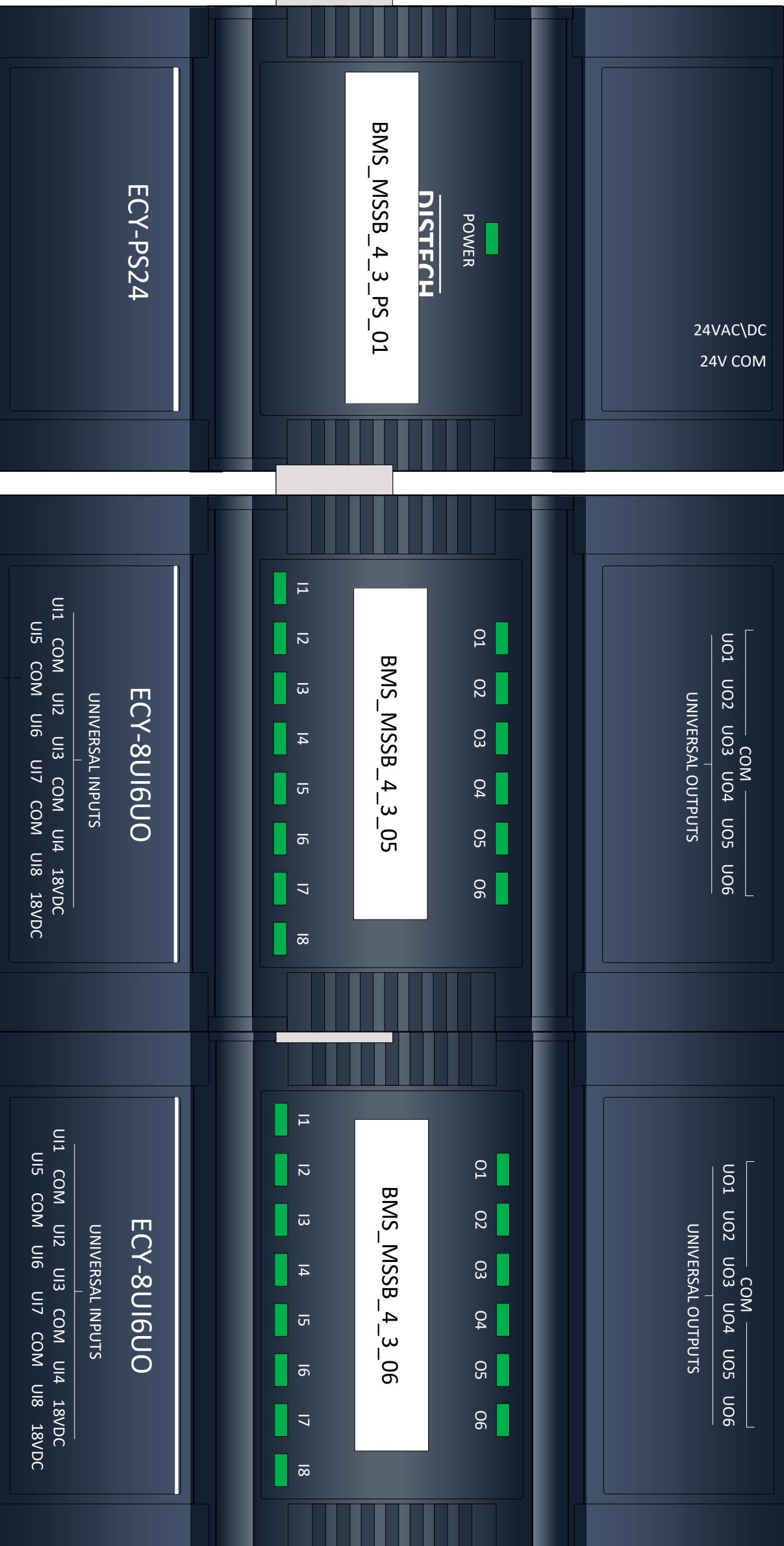
KSF_04_07_RA_FLT_S
PART NUMBER: EXISTING
LOCATION: PLANT ROOM

KEF_04_05_EF_Status
PART NUMBER: EXISTING
LOCATION: PLANT ROOM

KEF_04_06_EF_Status
PART NUMBER: EXISTING
LOCATION: PLANT ROOM

TEF_04_01_EF_Status
PART NUMBER: EXISTING
LOCATION: PLANT ROOM

BOARD



FIELD

OUTPUTS

A1 KSF_04_06_SF_SS_CMD
PART NUMBER: 12VDC INTERFACE RELAY
LOCATION: BUILDING AUTOMATION ENCLOSURE.

1 KSF_04_06_VSD_REF
PART NUMBER: EXISTING
LOCATION: PLANT ROOM

A1 KSF_04_07_SF_SS_CMD
PART NUMBER: 12VDC INTERFACE RELAY
LOCATION: BUILDING AUTOMATION ENCLOSURE.

1 KSF_04_07_VSD_REF
PART NUMBER: EXISTING
LOCATION: PLANT ROOM

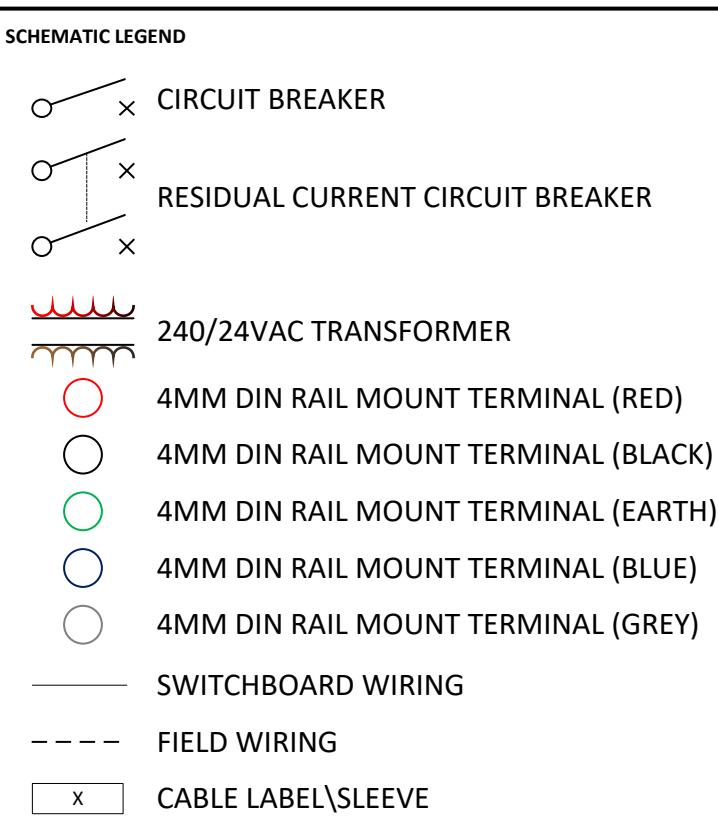
A1 KEF_04_05_EF_SS_CMD
PART NUMBER: 12VDC INTERFACE RELAY
LOCATION: BUILDING AUTOMATION ENCLOSURE.

1 KEF_04_05_VSD_REF
PART NUMBER: EXISTING
LOCATION: PLANT ROOM

A1 KEF_04_06_EF_SS_CMD
PART NUMBER: 12VDC INTERFACE RELAY
LOCATION: BUILDING AUTOMATION ENCLOSURE.

1 KEF_04_06_VSD_REF
PART NUMBER: EXISTING
LOCATION: PLANT ROOM

A1 TEF_04_01_EF_SS_CMD
PART NUMBER: 12VDC INTERFACE RELAY
LOCATION: BUILDING AUTOMATION ENCLOSURE.



WIRING LEGEND

| FUNCTION | CABLE | TERMINAL |
|------------|-----------|----------|
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

| | | | |
|-----|------------------|-------|------------|
| FC | For Construction | MZ | 20/06/2025 |
| REV | DESCRIPTION | DRAWN | DATE |

STATUS
AS BUILT



CLIENT
PROJECT TITLE
Rhodes Waterside – EMS & BMS Upgrade

Rhodes

PROJECT NUMBER
501081

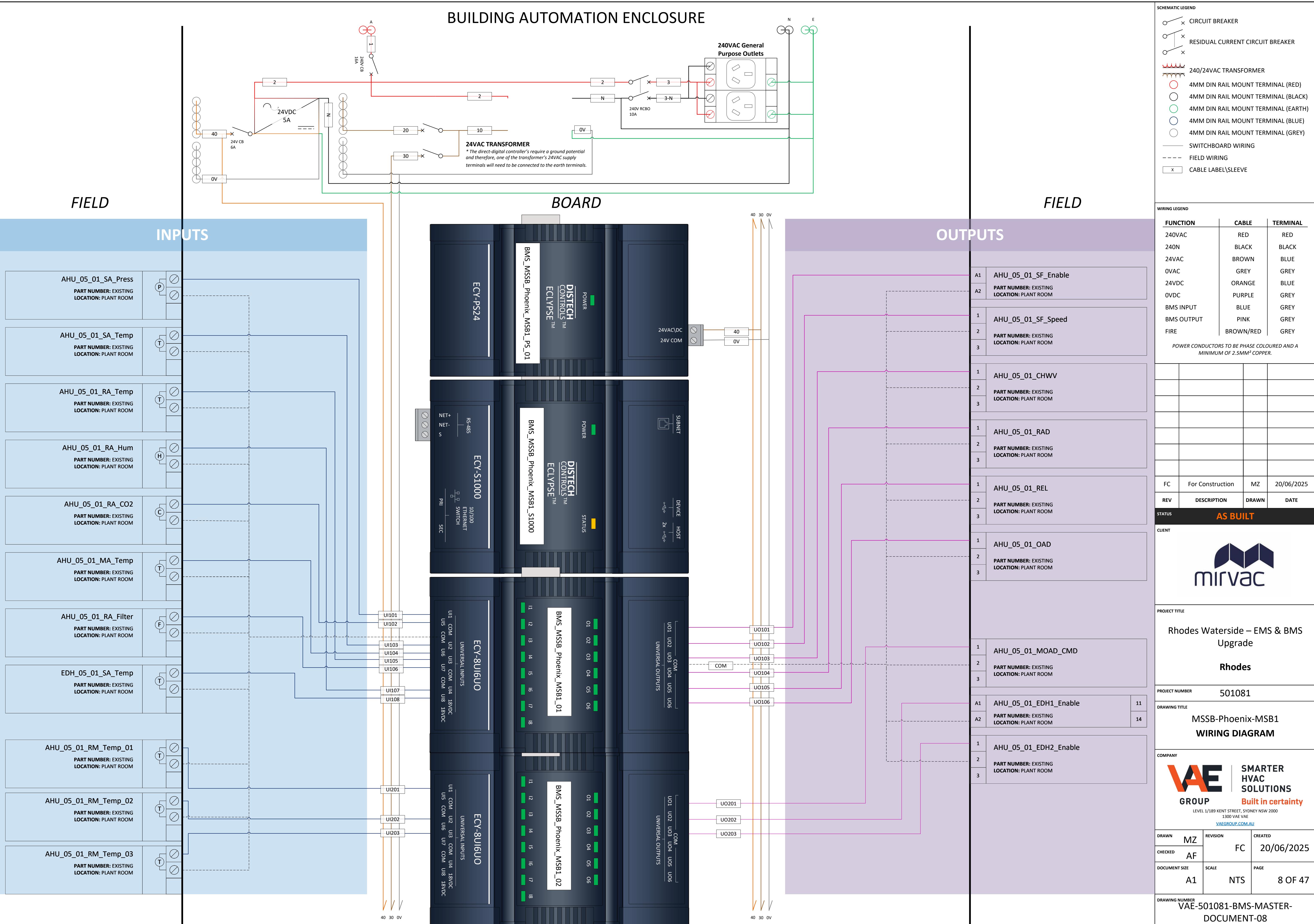
DRAWING TITLE
MSSB-4.3-03
WIRING DIAGRAM

COMPANY
VAE GROUP SMARTER HVAC SOLUTIONS
Built in certainty
LEVEL 1/189 KENT STREET, SYDNEY NSW 2000
1300 VAE VAE
VAEGROUP.COM.AU

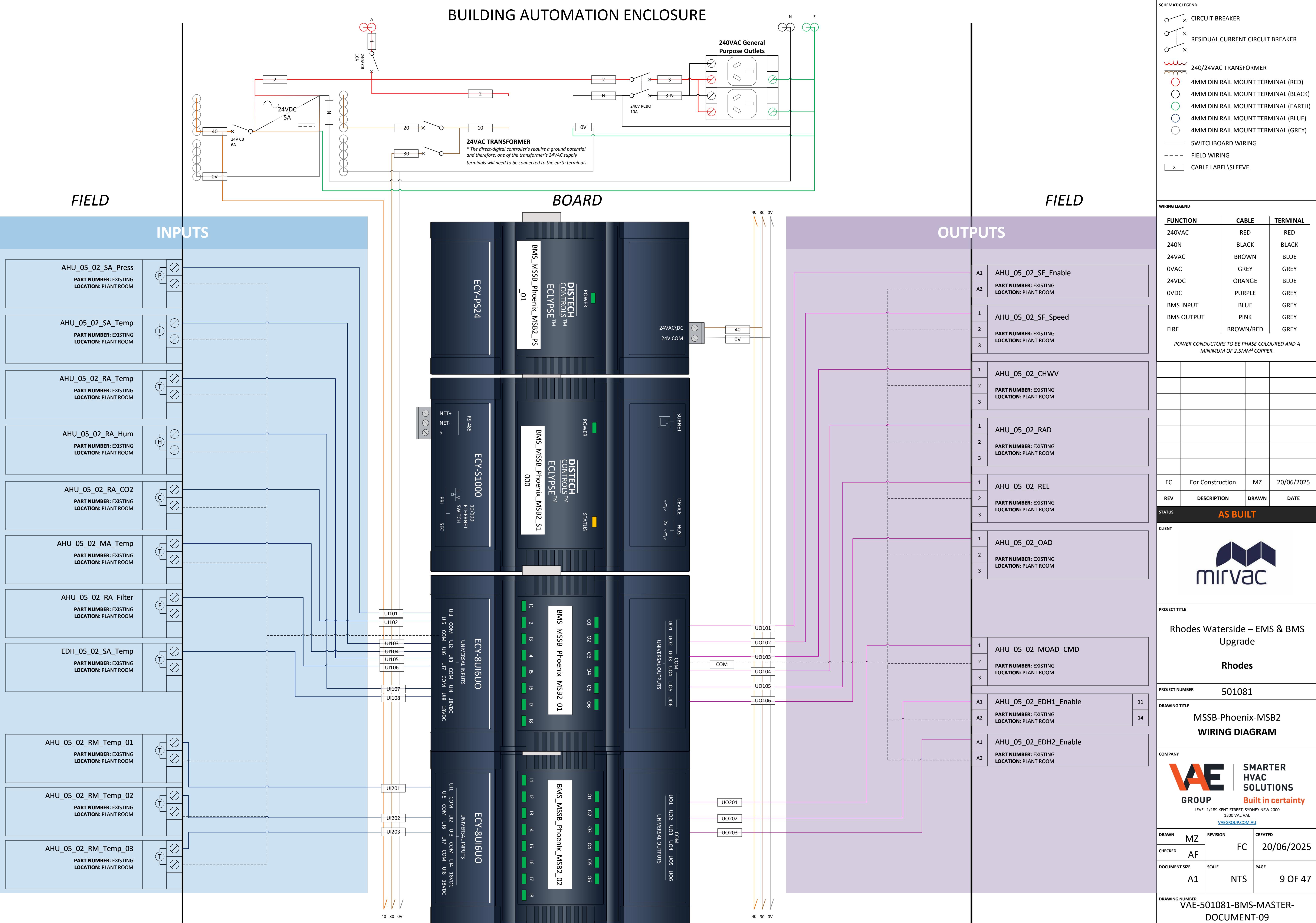
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| DRAWN | MZ | REVISION | FC | CREATED |
| CHECKED | AF | | | 20/06/2025 |
| DOCUMENT SIZE | | SCALE | NTS | PAGE |
| | | | | 7 OF 47 |

DRAWING NUMBER
VAE-501081-BMS-MASTER-DOCUMENT-07

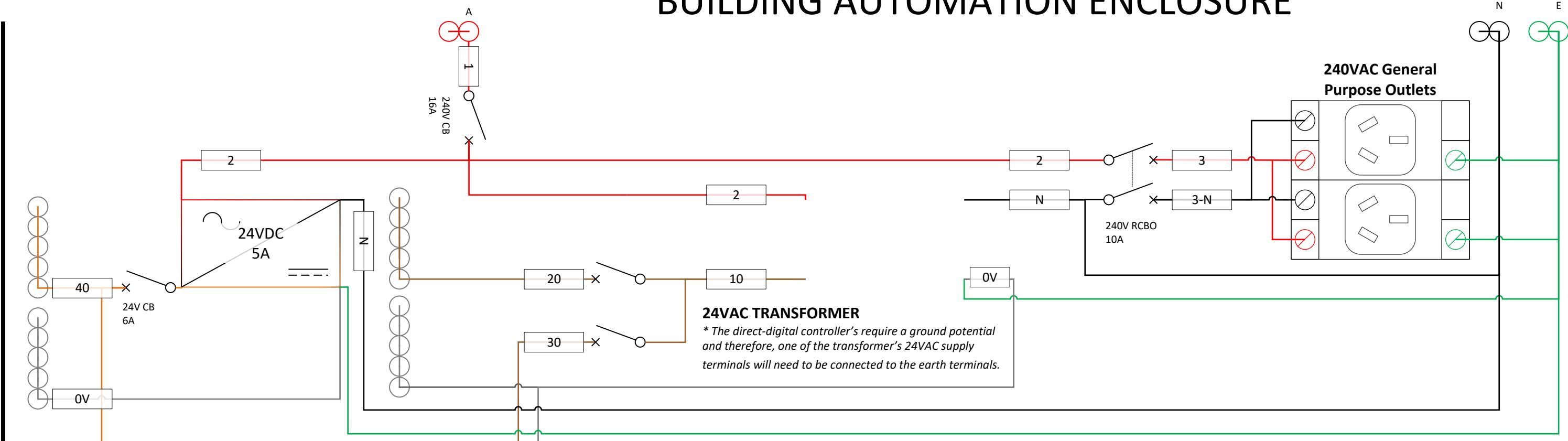
BUILDING AUTOMATION ENCLOSURE



BUILDING AUTOMATION ENCLOSURE



BUILDING AUTOMATION ENCLOSURE



FIELD

INPUTS

| |
|---|
| BL_EF_1_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| BL_EF_1_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |

BOARD



FIELD

OUTPUTS

| | |
|---|---|
| 1 | BL_EF_1_Enable |
| 2 | PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 1 | BL_EF_2_Enable |
| 2 | PART NUMBER: EXISTING LOCATION: PLANT ROOM |

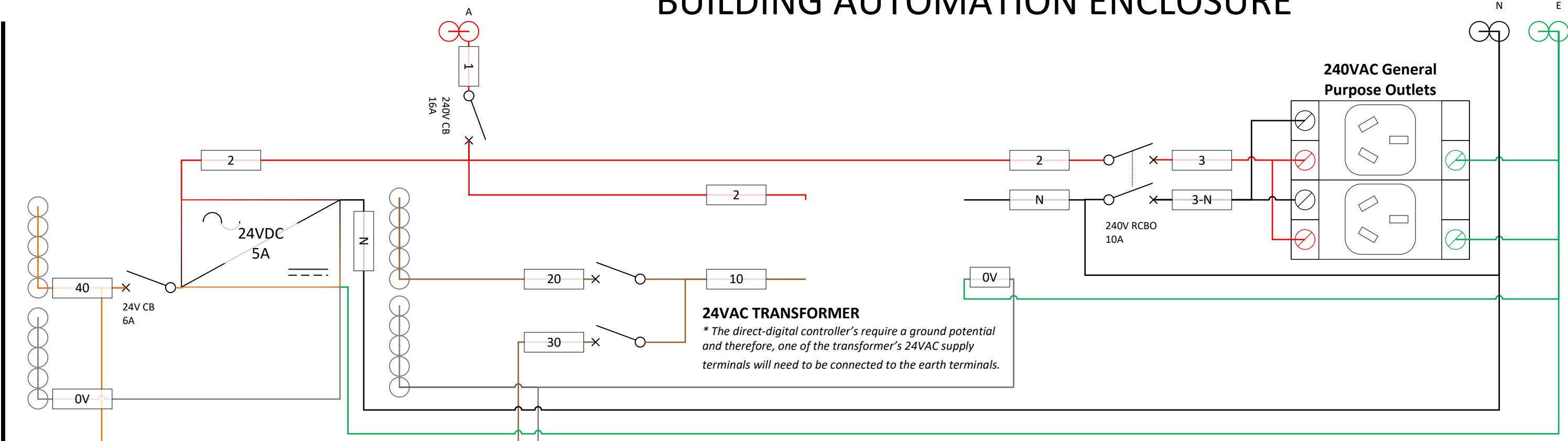
| SCHEMATIC LEGEND | | |
|-------------------------------------|---|--|
| CIRCUIT BREAKER | x | |
| RESIDUAL CURRENT CIRCUIT BREAKER | x | |
| 240/24VAC TRANSFORMER | x | |
| 4MM DIN RAIL MOUNT TERMINAL (RED) | x | |
| 4MM DIN RAIL MOUNT TERMINAL (BLACK) | x | |
| 4MM DIN RAIL MOUNT TERMINAL (EARTH) | x | |
| 4MM DIN RAIL MOUNT TERMINAL (BLUE) | x | |
| 4MM DIN RAIL MOUNT TERMINAL (GREY) | x | |
| SWITCHBOARD WIRING | | |
| FIELD WIRING | | |
| CABLE LABEL\SLEEVE | x | |

| WIRING LEGEND | | |
|---------------|-----------|----------|
| FUNCTION | CABLE | TERMINAL |
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

| | | | |
|--|-----------------------------------|----------|------------|
| FC | For Construction | MZ | 20/06/2025 |
| REV | DESCRIPTION | DRAWN | DATE |
| STATUS AS BUILT | | | |
| CLIENT | | | |
| | | | |
| PROJECT TITLE | | | |
| Rhodes Waterside – EMS & BMS Upgrade | | | |
| Rhodes | | | |
| PROJECT NUMBER | | | |
| 501081 | | | |
| DRAWING TITLE | | | |
| MSSB_Binglee | | | |
| WIRING DIAGRAM | | | |
| COMPANY | | | |
| | | | |
| SMARTER HVAC SOLUTIONS | | | |
| Built in certainty | | | |
| LEVEL 1/189 KENT STREET, SYDNEY NSW 2000 | | | |
| 1300 VAE VAE | | | |
| VAEGROUP.COM.AU | | | |
| DRAWN | MZ | REVISION | CREATED |
| CHECKED | AF | FC | 20/06/2025 |
| DOCUMENT SIZE | A1 | SCALE | NTS |
| | | PAGE | 10 OF 47 |
| DRAWING NUMBER | VAE-501081-BMS-MASTER-DOCUMENT-10 | | |

BUILDING AUTOMATION ENCLOSURE



FIELD

INPUTS

| |
|--|
| Carpark_EF_1_1_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| Carpark_EF_1_2_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| SprinklerRoom_SF_1_1_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| SwitchRoom_SF_1_2_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |

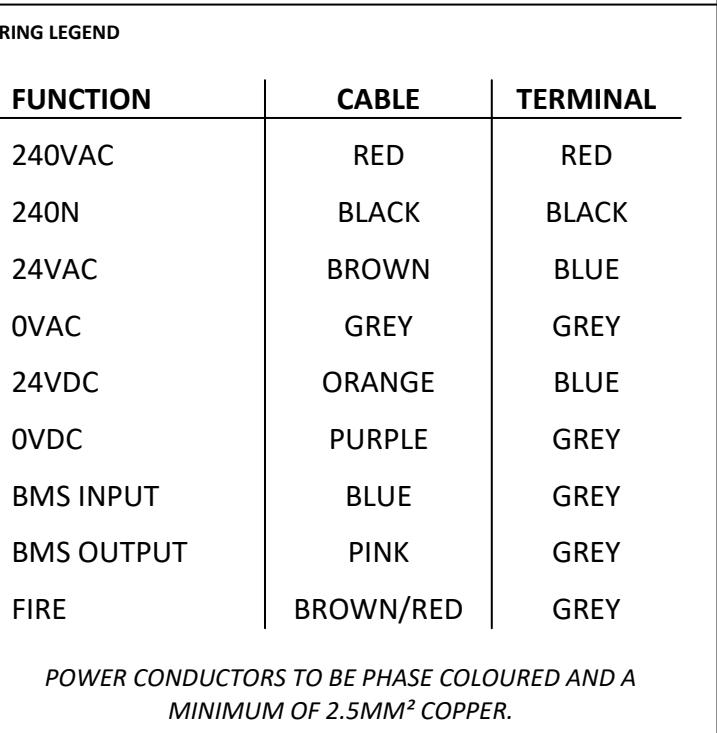
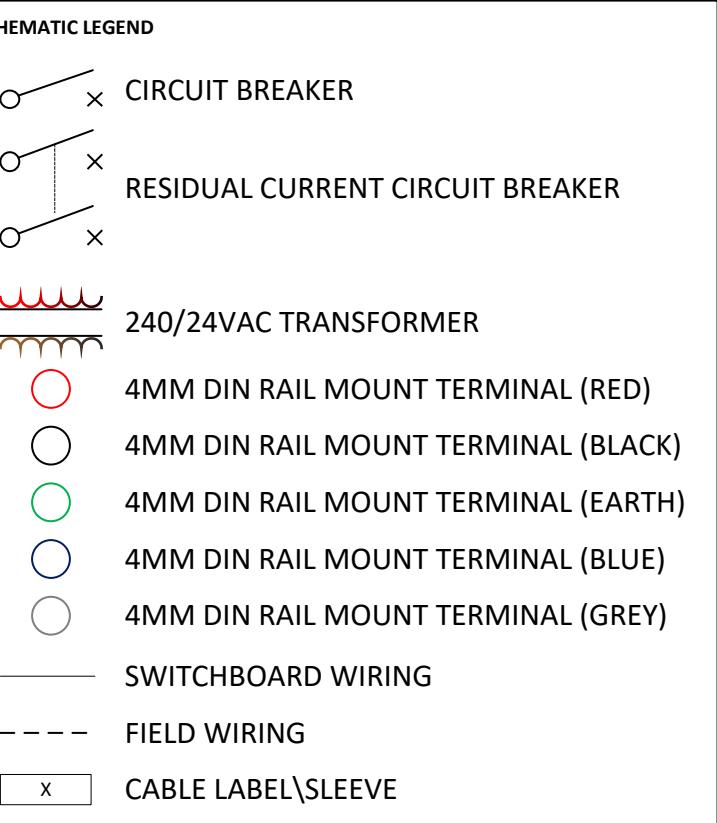
BOARD



FIELD

OUTPUTS

| | |
|----|--|
| 1 | Carpark_EF_1_1_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 2 | Carpark_EF_1_2_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 3 | SprinklerRoom_SF_1_1_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 4 | SwitchRoom_SF_1_2_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| A1 | Carpark_EF_1_1_Speed PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| A2 | Carpark_EF_1_2_Speed PART NUMBER: EXISTING LOCATION: PLANT ROOM |



| | | | |
|-----|------------------|-------|------------|
| FC | For Construction | MZ | 20/06/2025 |
| REV | DESCRIPTION | DRAWN | DATE |



PROJECT TITLE
Rhodes Waterside – EMS & BMS Upgrade
Rhodes

PROJECT NUMBER
501081

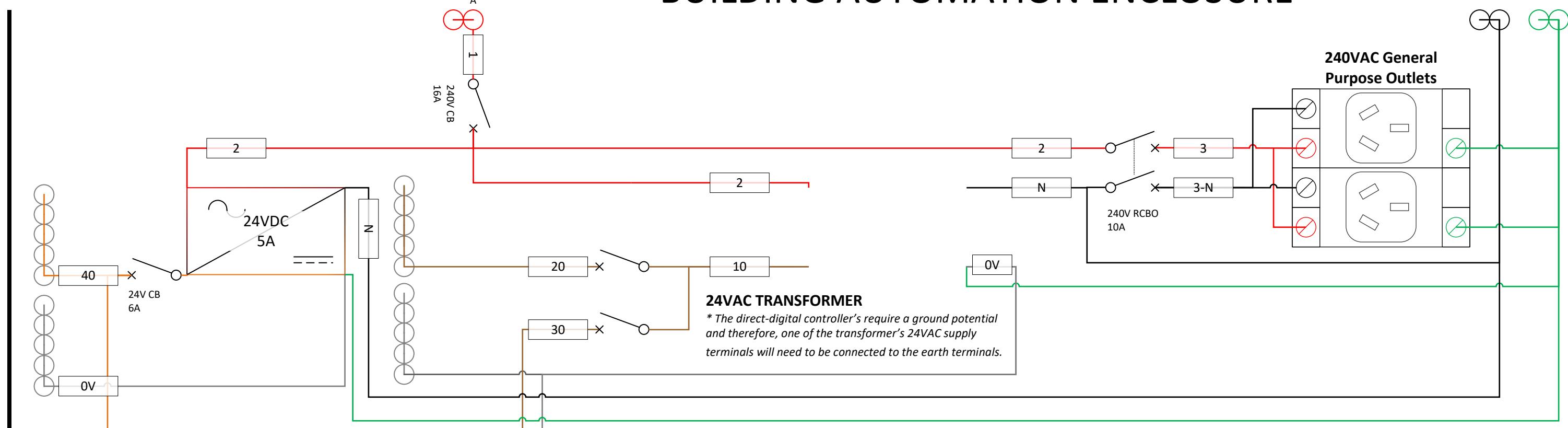
DRAWING TITLE
MSSB_CP1
WIRING DIAGRAM

COMPANY
VAE GROUP SMARTER HVAC SOLUTIONS *Built in certainty*
LEVEL 1/189 KENT STREET, SYDNEY NSW 2000
1300 VAE VAE
VAEGROUP.COM.AU

| DRAWN | REVISION | CREATED |
|---------------|----------|------------|
| MZ | FC | 20/06/2025 |
| CHECKED | AF | |
| DOCUMENT SIZE | SCALE | PAGE |
| A1 | NTS | 11 OF 47 |

DRAWING NUMBER
VAE-501081-BMS-MASTER-DOCUMENT-11

BUILDING AUTOMATION ENCLOSURE



| SCHEMATIC LEGEND | |
|------------------|-------------------------------------|
| | CIRCUIT BREAKER |
| | RESIDUAL CURRENT CIRCUIT BREAKER |
| | 240/24VAC TRANSFORMER |
| | 4MM DIN RAIL MOUNT TERMINAL (RED) |
| | 4MM DIN RAIL MOUNT TERMINAL (BLACK) |
| | 4MM DIN RAIL MOUNT TERMINAL (EARTH) |
| | 4MM DIN RAIL MOUNT TERMINAL (BLUE) |
| | 4MM DIN RAIL MOUNT TERMINAL (GREY) |
| | SWITCHBOARD WIRING |
| | FIELD WIRING |
| | CABLE LABEL\ SLEEVE |

FIELD

INPUTS

| |
|--|
| Carpark_SF_1_1_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| LoadingDock_EF_2_1_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| OutsideAir_SF_1_1_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |

BOARD



FIELD

OUTPUTS

| | |
|----|--|
| A1 | Carpark_SF_1_1_Speed PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| A2 | Carpark_SF_1_1_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 1 | Carpark_SF_1_1_Status |
| 2 | Carpark_SF_1_1_Status |
| 3 | Carpark_SF_1_1_Status |
| 1 | LoadingDock_EF_2_1_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 2 | LoadingDock_EF_2_1_Status |
| 1 | OutsideAir_SF_1_1_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 2 | OutsideAir_SF_1_1_Status |

| FUNCTION | CABLE | TERMINAL |
|------------|-----------|----------|
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.



PROJECT TITLE
Rhodes Waterside – EMS & BMS Upgrade
Rhodes

PROJECT NUMBER
501081

DRAWING TITLE
MSSB_CP2
WIRING DIAGRAM

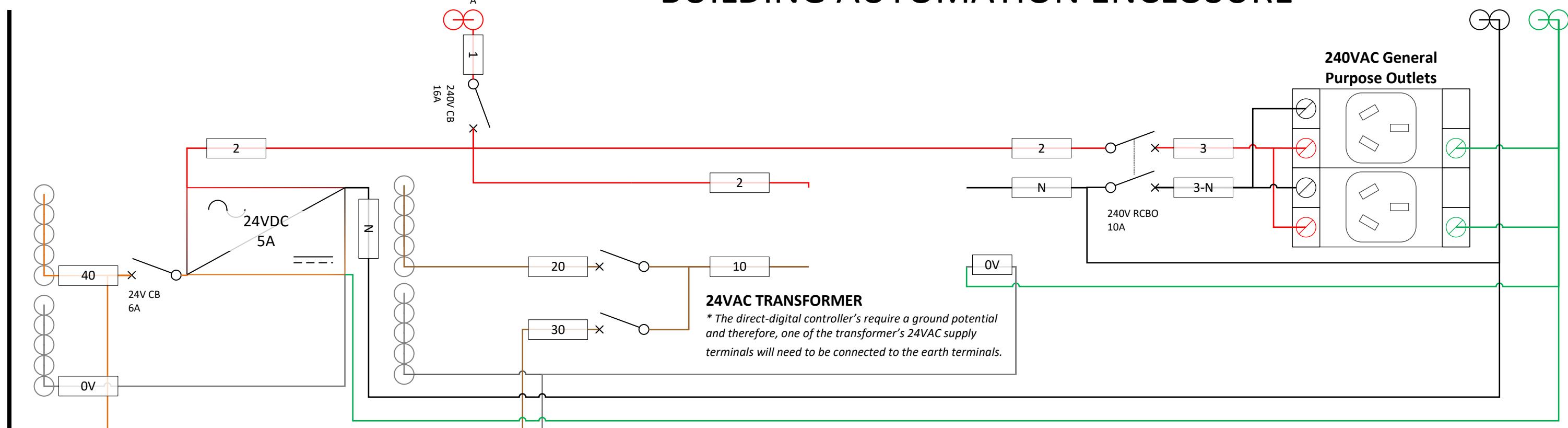
COMPANY
VAE GROUP SMARTER HVAC SOLUTIONS
Built in certainty

LEVEL 1/189 KENT STREET, SYDNEY NSW 2000
1300 VAE VAE
VAEGROUP.COM.AU

| | | | | |
|---------------|----|----------|-----|------------|
| DRAWN | MZ | REVISION | FC | CREATED |
| CHECKED | AF | | | 20/06/2025 |
| DOCUMENT SIZE | | SCALE | NTS | PAGE |
| | | | | 12 OF 47 |

DRAWING NUMBER
VAE-501081-BMS-MASTER-DOCUMENT-12

BUILDING AUTOMATION ENCLOSURE



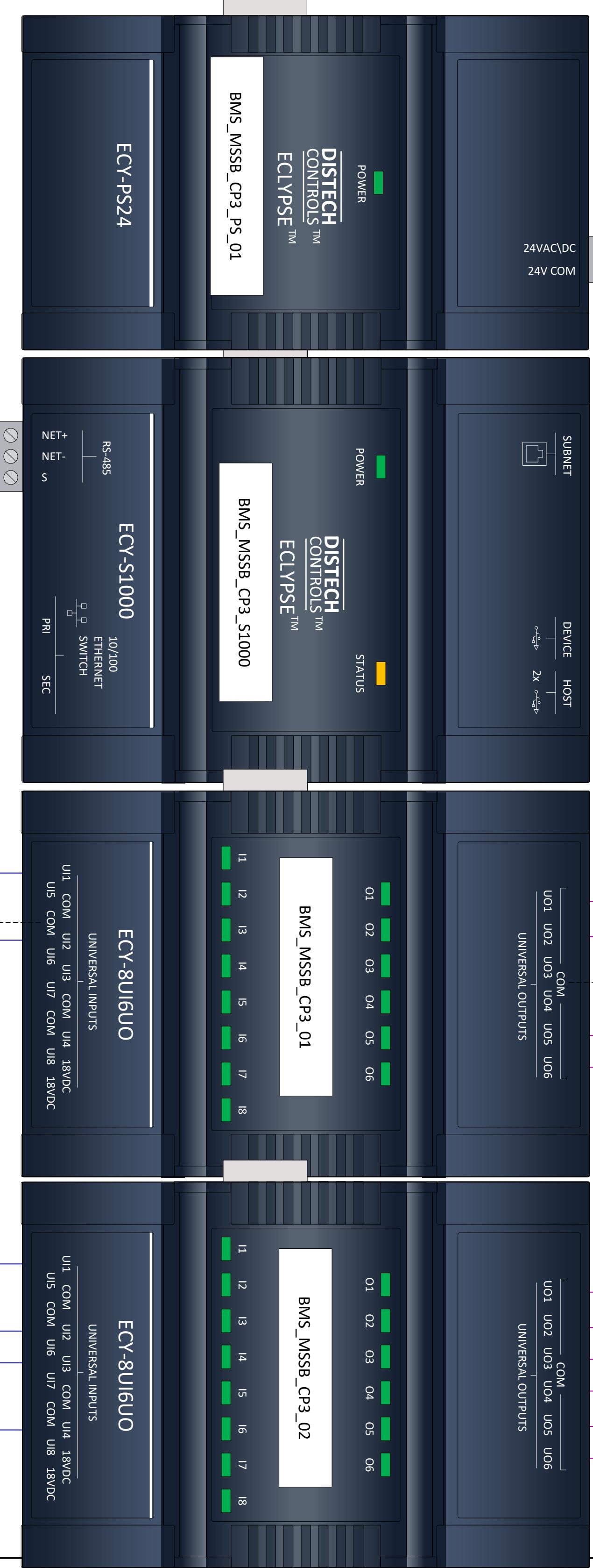
| SCHEMATIC LEGEND | |
|------------------|-------------------------------------|
| | CIRCUIT BREAKER |
| | RESIDUAL CURRENT CIRCUIT BREAKER |
| | 240/24VAC TRANSFORMER |
| | 4MM DIN RAIL MOUNT TERMINAL (RED) |
| | 4MM DIN RAIL MOUNT TERMINAL (BLACK) |
| | 4MM DIN RAIL MOUNT TERMINAL (EARTH) |
| | 4MM DIN RAIL MOUNT TERMINAL (BLUE) |
| | 4MM DIN RAIL MOUNT TERMINAL (GREY) |
| | SWITCHBOARD WIRING |
| | FIELD WIRING |
| | CABLE LABEL\ SLEEVE |

FIELD

INPUTS

| |
|---|
| Carpark_EF_1_3_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| Carpark_EF_1_4_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| OutsideAir_SF_1_2_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| OutsideAir_SF_1_3_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| Carpark_EF_2_1_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| Carpark_EF_3_1_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |

BOARD



FIELD

OUTPUTS

| |
|--|
| A1 Carpark_EF_1_3_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| A2 Carpark_EF_1_4_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 1 Carpark_EF_1_3_Speed PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 2 Carpark_EF_1_4_Speed PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| A1 OutsideAir_SF_1_2_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| A2 OutsideAir_SF_1_3_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 1 Carpark_EF_2_1_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 2 Carpark_EF_3_1_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 1 Carpark_EF_2_1_Speed PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 2 Carpark_EF_3_1_Speed PART NUMBER: EXISTING LOCATION: PLANT ROOM |

| FUNCTION | CABLE | TERMINAL |
|------------|-----------|----------|
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

| | | | |
|-----|------------------|-------|------------|
| FC | For Construction | MZ | 20/06/2025 |
| REV | DESCRIPTION | DRAWN | DATE |

STATUS AS BUILT



PROJECT TITLE Rhodes Waterside – EMS & BMS Upgrade
Rhodes

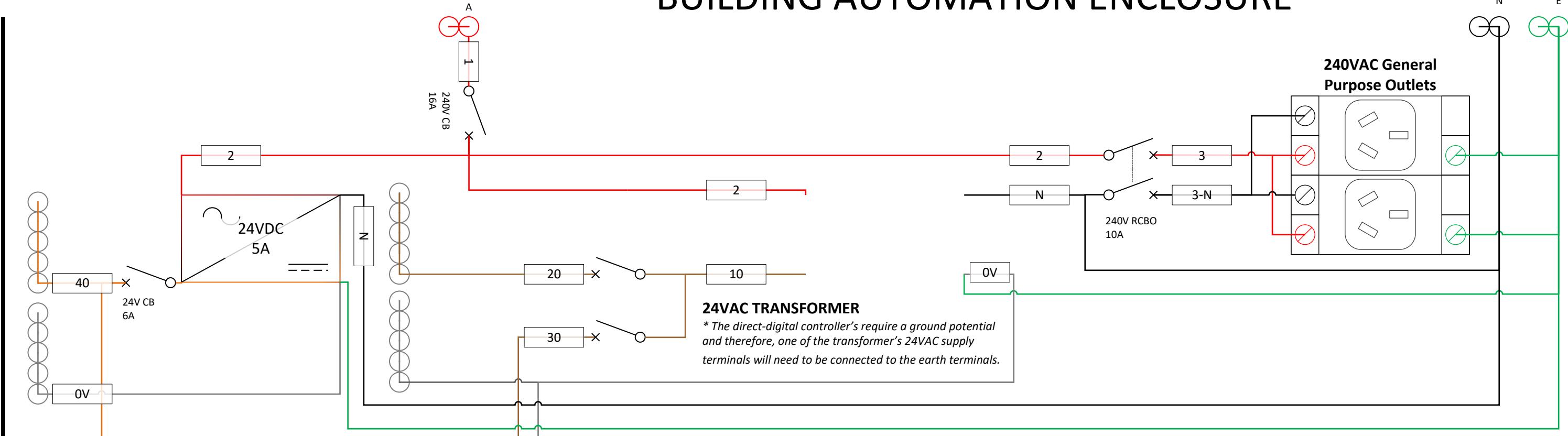
PROJECT NUMBER 501081
DRAWING TITLE MSSB_CP3
WIRING DIAGRAM

COMPANY VAE GROUP SMARTER HVAC SOLUTIONS Built in certainty
LEVEL 1/189 KENT STREET, SYDNEY NSW 2000
1300 VAE VAE
VAEGROUP.COM.AU

| DRAWN | REVISION | CREATED |
|---------------|----------|------------|
| MZ | FC | 20/06/2025 |
| CHECKED | AF | |
| DOCUMENT SIZE | SCALE | PAGE |
| A1 | NTS | 13 OF 47 |

DRAWING NUMBER VAE-501081-BMS-MASTER-DOCUMENT-13

BUILDING AUTOMATION ENCLOSURE



| SCHEMATIC LEGEND | |
|------------------|-------------------------------------|
| | CIRCUIT BREAKER |
| | RESIDUAL CURRENT CIRCUIT BREAKER |
| | 240/24VAC TRANSFORMER |
| | 4MM DIN RAIL MOUNT TERMINAL (RED) |
| | 4MM DIN RAIL MOUNT TERMINAL (BLACK) |
| | 4MM DIN RAIL MOUNT TERMINAL (EARTH) |
| | 4MM DIN RAIL MOUNT TERMINAL (BLUE) |
| | 4MM DIN RAIL MOUNT TERMINAL (GREY) |
| | SWITCHBOARD WIRING |
| | FIELD WIRING |
| | CABLE LABEL\ SLEEVE |

FIELD

INPUTS

| |
|--|
| Carpark_EF_1_5_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| LoadingDock_EF_2_2_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| Toilet_EF_1_1_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| OutsideAir_SF_1_4_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| OutsideAir_SF_1_5_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |

BOARD



FIELD

OUTPUTS

| |
|---|
| 1 Carpark_EF_1_5_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 1 Loading Dock_EF_2_2_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 1 Toilet_EF_1_1_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 1 OutsideAir_SF_1_4_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 1 OutsideAir_SF_1_5_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 1 Carpark_EF_1_5_Speed PART NUMBER: EXISTING LOCATION: PLANT ROOM |

| FUNCTION | CABLE | TERMINAL |
|------------|-----------|----------|
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

| | | | |
|-----|------------------|-------|------------|
| FC | For Construction | MZ | 20/06/2025 |
| REV | DESCRIPTION | DRAWN | DATE |



PROJECT TITLE
Rhodes Waterside – EMS & BMS Upgrade
Rhodes

PROJECT NUMBER
501081

DRAWING TITLE
MSSB_CP4
WIRING DIAGRAM

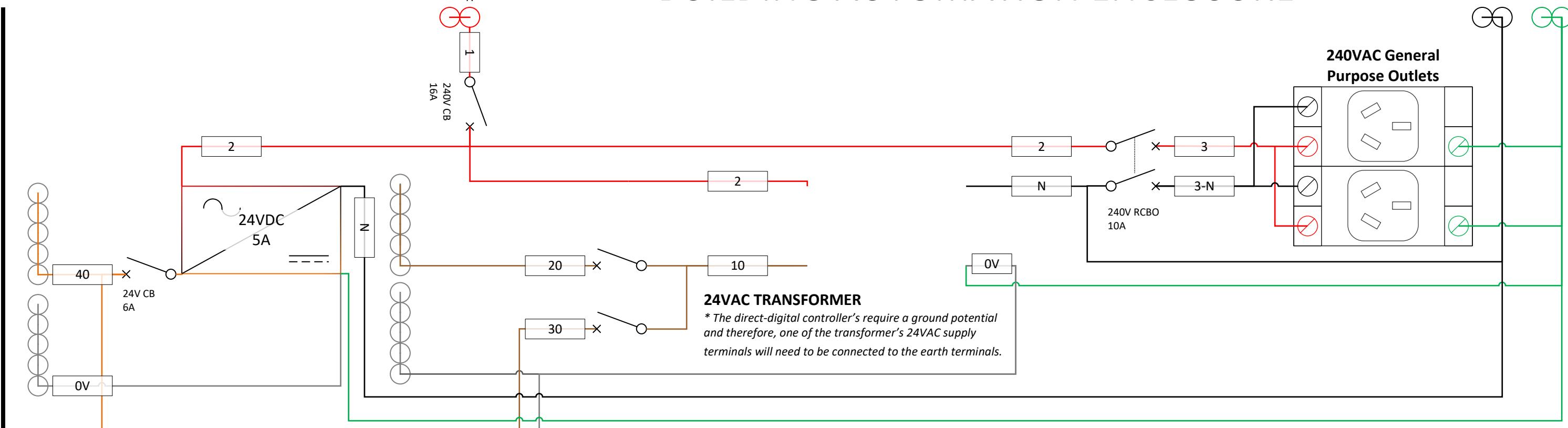
COMPANY
VAE GROUP SMARTER HVAC SOLUTIONS
Built in certainty

LEVEL 1/189 KENT STREET, SYDNEY NSW 2000
1300 VAE VAE
VAEGROUP.COM.AU

| | | | | |
|---------------|----|----------|-----|---------|
| DRAWN | MZ | REVISION | FC | CREATED |
| CHECKED | AF | | | |
| DOCUMENT SIZE | A1 | SCALE | NTS | PAGE |

DRAWING NUMBER
VAE-501081-BMS-MASTER-DOCUMENT-14

BUILDING AUTOMATION ENCLOSURE



| SCHEMATIC LEGEND | |
|------------------|-------------------------------------|
| | CIRCUIT BREAKER |
| | RESIDUAL CURRENT CIRCUIT BREAKER |
| | 240/24VAC TRANSFORMER |
| | 4MM DIN RAIL MOUNT TERMINAL (RED) |
| | 4MM DIN RAIL MOUNT TERMINAL (BLACK) |
| | 4MM DIN RAIL MOUNT TERMINAL (EARTH) |
| | 4MM DIN RAIL MOUNT TERMINAL (BLUE) |
| | 4MM DIN RAIL MOUNT TERMINAL (GREY) |
| | SWITCHBOARD WIRING |
| | FIELD WIRING |
| | CABLE LABEL\ SLEEVE |

FIELD

INPUTS

| | |
|-----------------------|---|
| Carpark_CS_1_3_Status | PART NUMBER: EXISTING LOCATION: PLANT ROOM |
|-----------------------|---|

BOARD



FIELD

OUTPUTS

| | | |
|---|-----------------------|---|
| 1 | Carpark_SF_1_3_Enable | PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 2 | Carpark_SF_1_3_Enable | PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 3 | | |

| FUNCTION | CABLE | TERMINAL |
|------------|-----------|----------|
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

| | | | |
|-----|------------------|-------|------------|
| FC | For Construction | MZ | 20/06/2025 |
| REV | DESCRIPTION | DRAWN | DATE |

STATUS **AS BUILT**



PROJECT TITLE
Rhodes Waterside – EMS & BMS Upgrade

Rhodes

PROJECT NUMBER **501081**

DRAWING TITLE **MSSB_CPS5 WIRING DIAGRAM**

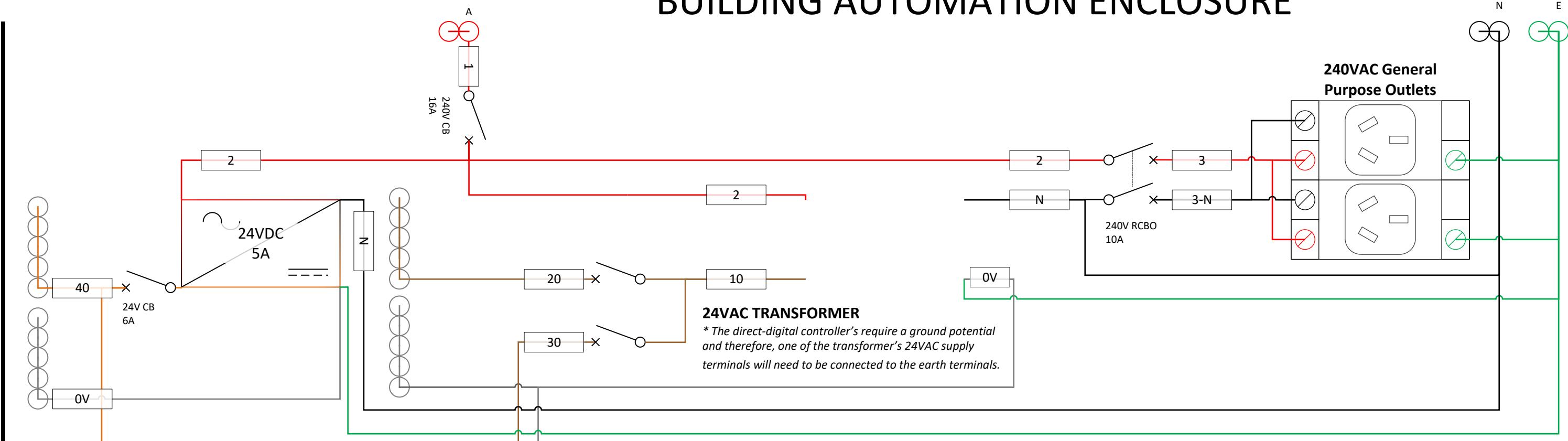
COMPANY **VAE GROUP** SMARTER HVAC SOLUTIONS **Built in certainty**

LEVEL 1/189 KENT STREET, SYDNEY NSW 2000
1300 VAE VAE
VAEGROUP.COM.AU

| | | |
|------------------|-------------|---------------|
| DRAWN MZ | REVISION FC | CREATED |
| CHECKED AF | | 20/06/2025 |
| DOCUMENT SIZE A1 | SCALE NTS | PAGE 15 OF 47 |

DRAWING NUMBER **VAE-501081-BMS-MASTER-DOCUMENT-15**

BUILDING AUTOMATION ENCLOSURE



| SCHEMATIC LEGEND | |
|------------------|-------------------------------------|
| | CIRCUIT BREAKER |
| | RESIDUAL CURRENT CIRCUIT BREAKER |
| | 240/24VAC TRANSFORMER |
| | 4MM DIN RAIL MOUNT TERMINAL (RED) |
| | 4MM DIN RAIL MOUNT TERMINAL (BLACK) |
| | 4MM DIN RAIL MOUNT TERMINAL (EARTH) |
| | 4MM DIN RAIL MOUNT TERMINAL (BLUE) |
| | 4MM DIN RAIL MOUNT TERMINAL (GREY) |
| | SWITCHBOARD WIRING |
| | FIELD WIRING |
| | CABLE LABEL\ SLEEVE |

FIELD

INPUTS

| |
|--|
| Carpark_CE_1_6_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| SprinklerRoom_SF_1_3_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| SwitchRoom_SF_1_4_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |

BOARD



FIELD

OUTPUTS

| |
|--|
| 1 Carpark_CE_1_6_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 2 SprinklerRoom_SF_1_3_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 1 SwitchRoom_SF_1_4_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 1 Carpark_CE_1_6_Speed PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 2 |

| FUNCTION | CABLE | TERMINAL |
|------------|-----------|----------|
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

| | | | |
|-----|------------------|-------|------------|
| FC | For Construction | MZ | 20/06/2025 |
| REV | DESCRIPTION | DRAWN | DATE |

STATUS AS BUILT



PROJECT TITLE Rhodes Waterside – EMS & BMS Upgrade
Rhodes

PROJECT NUMBER 501081

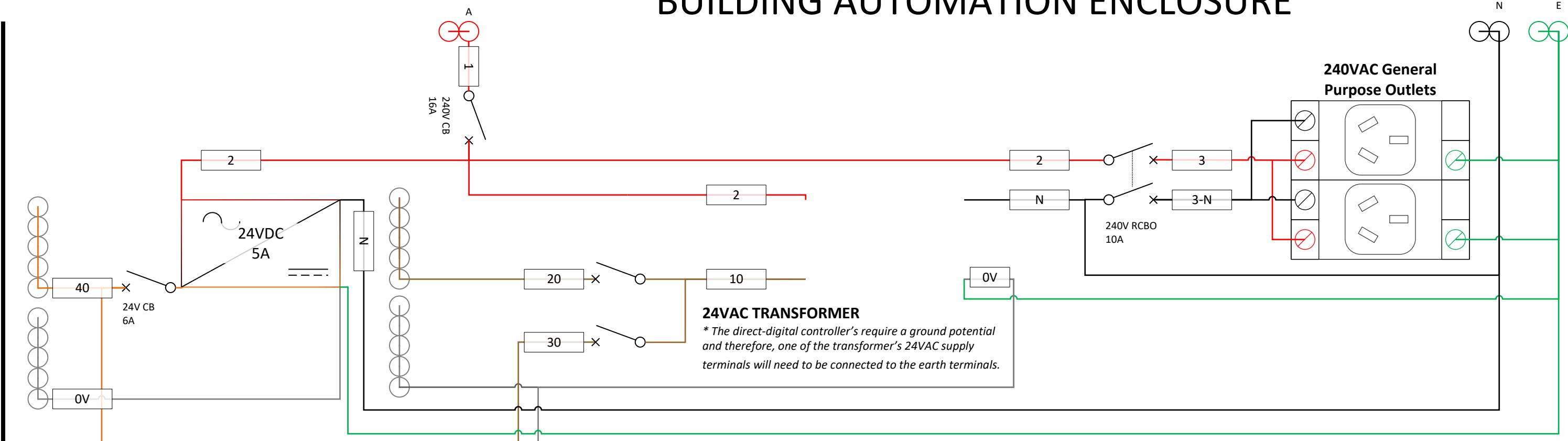
DRAWING TITLE MSSB_CP6 WIRING DIAGRAM

COMPANY VAE GROUP SMARTER HVAC SOLUTIONS Built in certainty
LEVEL 1/189 KENT STREET, SYDNEY NSW 2000
1300 VAE VAE
VAEGROUP.COM.AU

| | | | |
|---------------|----|----------|------------|
| DRAWN | MZ | REVISION | CREATED |
| CHECKED | AF | FC | 20/06/2025 |
| DOCUMENT SIZE | A1 | SCALE | NTS |
| | | PAGE | 16 OF 47 |

DRAWING NUMBER VAE-501081-BMS-MASTER-DOCUMENT-16

BUILDING AUTOMATION ENCLOSURE



| SCHEMATIC LEGEND | |
|------------------|-------------------------------------|
| | CIRCUIT BREAKER |
| | RESIDUAL CURRENT CIRCUIT BREAKER |
| | 240/24VAC TRANSFORMER |
| | 4MM DIN RAIL MOUNT TERMINAL (RED) |
| | 4MM DIN RAIL MOUNT TERMINAL (BLACK) |
| | 4MM DIN RAIL MOUNT TERMINAL (GREEN) |
| | 4MM DIN RAIL MOUNT TERMINAL (BLUE) |
| | 4MM DIN RAIL MOUNT TERMINAL (GREY) |
| | SWITCHBOARD WIRING |
| | FIELD WIRING |
| | CABLE LABEL\ SLEEVE |

FIELD

INPUTS

| |
|--|
| Carpark_CS_1_2_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| Carpark_CS_1_4_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |

BOARD



FIELD

OUTPUTS

| |
|--|
| 1 Carpark_SF_1_2_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 2 Carpark_SF_1_4_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 1 Carpark_EF_1_2_Speed PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| 2 Carpark_EF_1_4_Speed PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| |

| FUNCTION | CABLE | TERMINAL |
|------------|-----------|----------|
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

| | | | |
|-----|------------------|-------|------------|
| FC | For Construction | MZ | 20/06/2025 |
| REV | DESCRIPTION | DRAWN | DATE |

STATUS AS BUILT



PROJECT TITLE Rhodes Waterside – EMS & BMS Upgrade
Rhodes

PROJECT NUMBER 501081

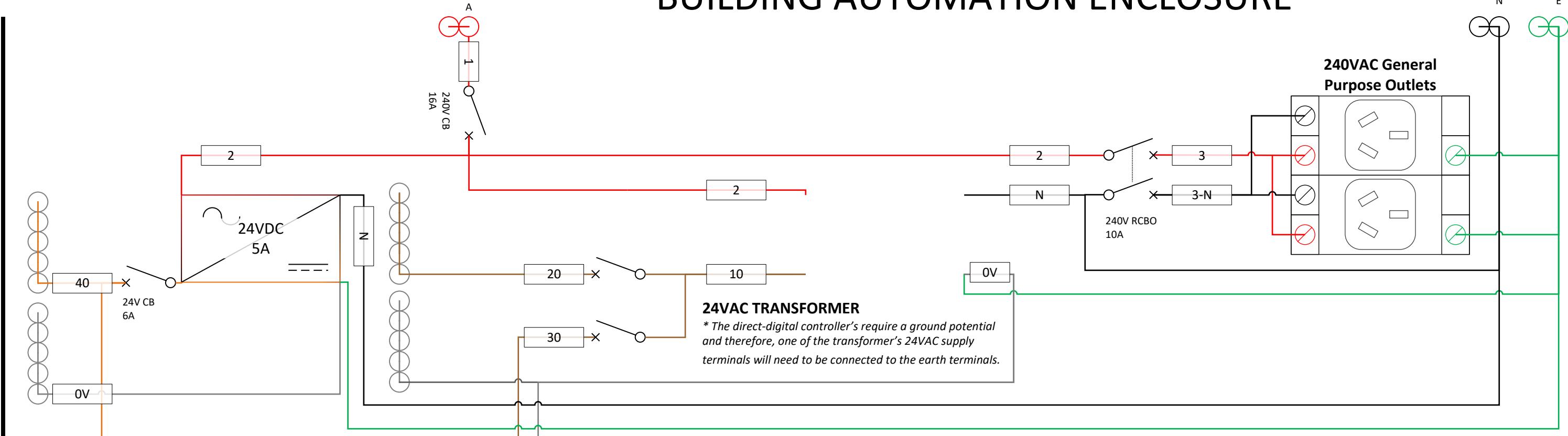
DRAWING TITLE MSSB_CP7 WIRING DIAGRAM

COMPANY VAE GROUP SMARTER HVAC SOLUTIONS Built in certainty
LEVEL 1/189 KENT STREET, SYDNEY NSW 2000
1300 VAE VAE
VAEGROUP.COM.AU

| | | | |
|---------------|----|----------|------------|
| DRAWN | MZ | REVISION | CREATED |
| CHECKED | AF | FC | 20/06/2025 |
| DOCUMENT SIZE | A1 | SCALE | NTS |
| | | PAGE | 17 OF 47 |

DRAWING NUMBER VAE-501081-BMS-MASTER-DOCUMENT-17

BUILDING AUTOMATION ENCLOSURE



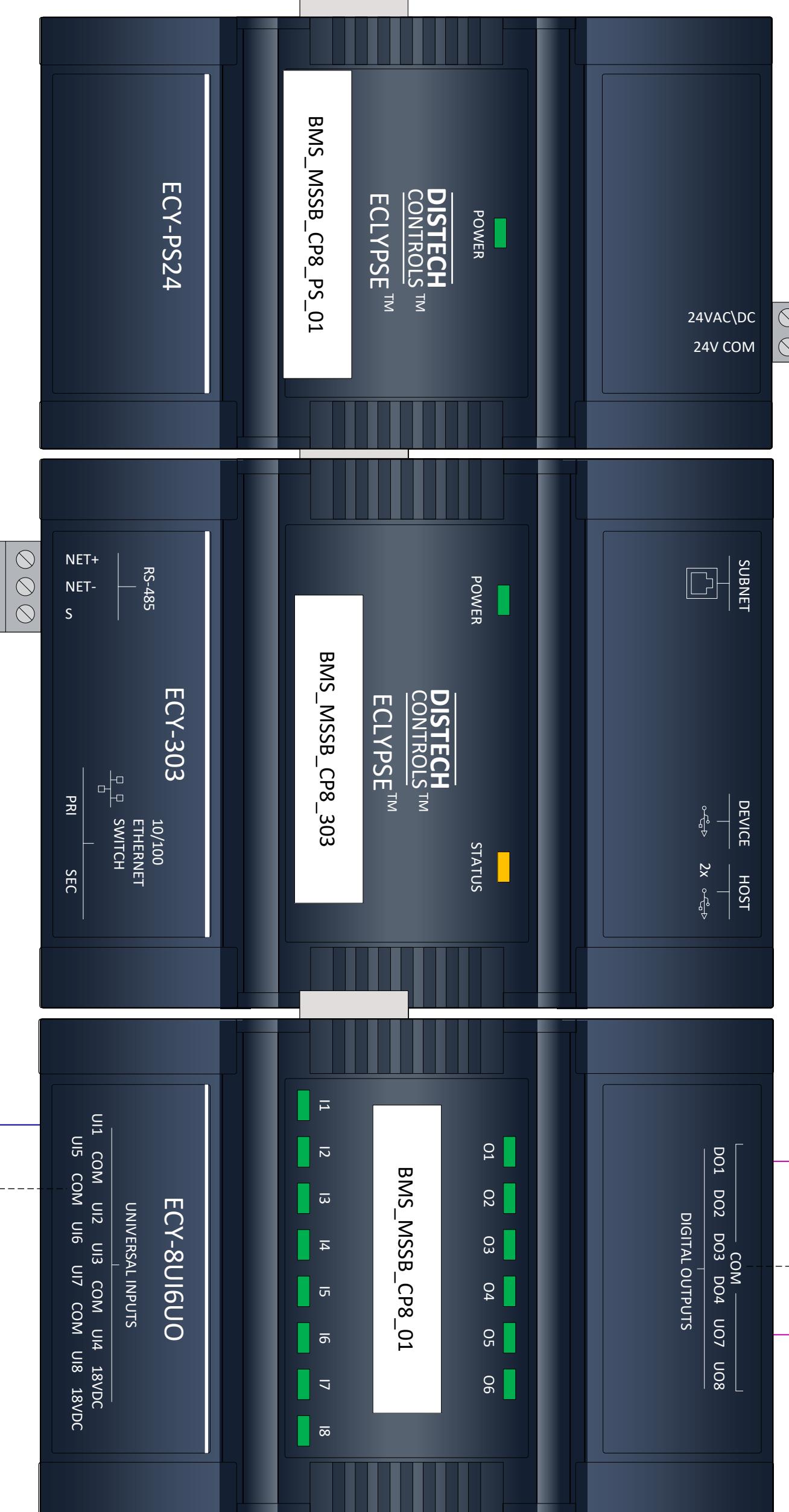
| SCHEMATIC LEGEND | |
|------------------|-------------------------------------|
| | CIRCUIT BREAKER |
| | RESIDUAL CURRENT CIRCUIT BREAKER |
| | 240/24VAC TRANSFORMER |
| | 4MM DIN RAIL MOUNT TERMINAL (RED) |
| | 4MM DIN RAIL MOUNT TERMINAL (BLACK) |
| | 4MM DIN RAIL MOUNT TERMINAL (EARTH) |
| | 4MM DIN RAIL MOUNT TERMINAL (BLUE) |
| | 4MM DIN RAIL MOUNT TERMINAL (GREY) |
| | SWITCHBOARD WIRING |
| | FIELD WIRING |
| | CABLE LABEL\ SLEEVE |

FIELD

INPUTS

Carpark_CS_8_1_Status
PART NUMBER: EXISTING
LOCATION: PLANT ROOM

BOARD



FIELD

OUTPUTS

1 Carpark_SF_8_1_Enable
PART NUMBER: EXISTING
LOCATION: PLANT ROOM

2 Carpark_SF_8_1_Speed
PART NUMBER: EXISTING
LOCATION: PLANT ROOM

| FUNCTION | CABLE | TERMINAL |
|------------|-----------|----------|
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

| | | | |
|-----|------------------|-------|------------|
| FC | For Construction | MZ | 20/06/2025 |
| REV | DESCRIPTION | DRAWN | DATE |

STATUS AS BUILT

CLIENT



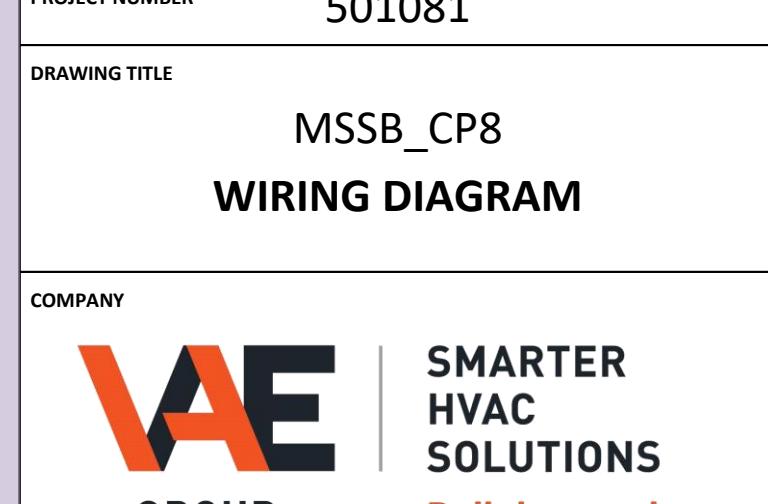
PROJECT TITLE Rhodes Waterside – EMS & BMS Upgrade

Rhodes

PROJECT NUMBER 501081

DRAWING TITLE MSSB_CP8 WIRING DIAGRAM

COMPANY



| | | | | |
|---------------|----|----------|-----|---------|
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| CHECKED | AF | | | |
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20/06/2025

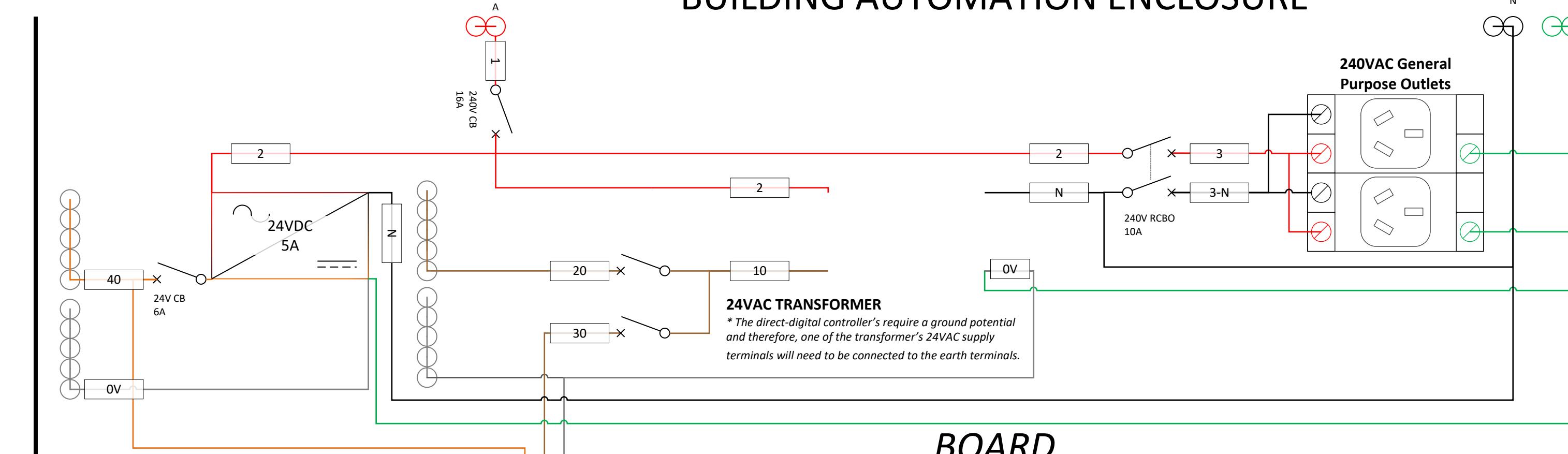
18 OF 47

DRAWING NUMBER VAE-501081-BMS-MASTER-DOCUMENT-18

BUILDING AUTOMATION ENCLOSURE

FIELD

INPUTS

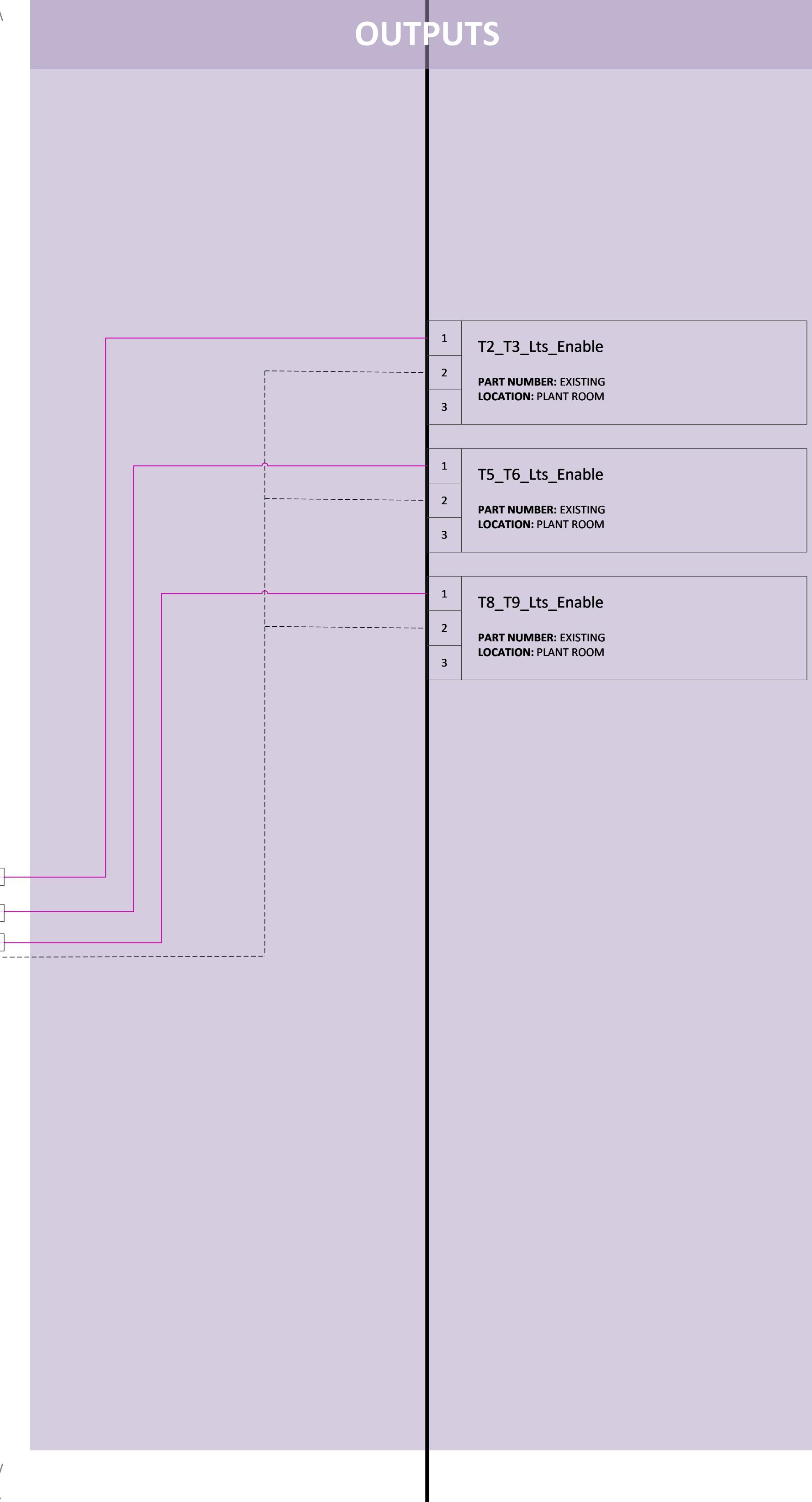


BOARD



FIELD

OUTPUTS



| SCHEMATIC LEGEND | | |
|------------------|-------------------------------------|--|
| | CIRCUIT BREAKER | |
| | RESIDUAL CURRENT CIRCUIT BREAKER | |
| | 240/24VAC TRANSFORMER | |
| | 4MM DIN RAIL MOUNT TERMINAL (RED) | |
| | 4MM DIN RAIL MOUNT TERMINAL (BLACK) | |
| | 4MM DIN RAIL MOUNT TERMINAL (EARTH) | |
| | 4MM DIN RAIL MOUNT TERMINAL (BLUE) | |
| | 4MM DIN RAIL MOUNT TERMINAL (GREY) | |
| | SWITCHBOARD WIRING | |
| | FIELD WIRING | |
| | CABLE LABEL\ SLEEVE | |

| WIRING LEGEND | | |
|---------------|-----------|----------|
| FUNCTION | CABLE | TERMINAL |
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

| | | | |
|--------|------------------|-------|------------|
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| FC | For Construction | MZ | 20/06/2025 |
| REV | DESCRIPTION | DRAWN | DATE |
| STATUS | AS BUILT | | |
| CLIENT | | | |

PROJECT TITLE
Rhodes Waterside – EMS & BMS Upgrade
Rhodes

PROJECT NUMBER
501081
DRAWING TITLE
HDB_1A
WIRING DIAGRAM

COMPANY
 SMARTER HVAC SOLUTIONS
Built in certainty

LEVEL 1/189 KENT STREET, SYDNEY NSW 2000
1300 VAE VAE
VAEGROUP.COM.AU

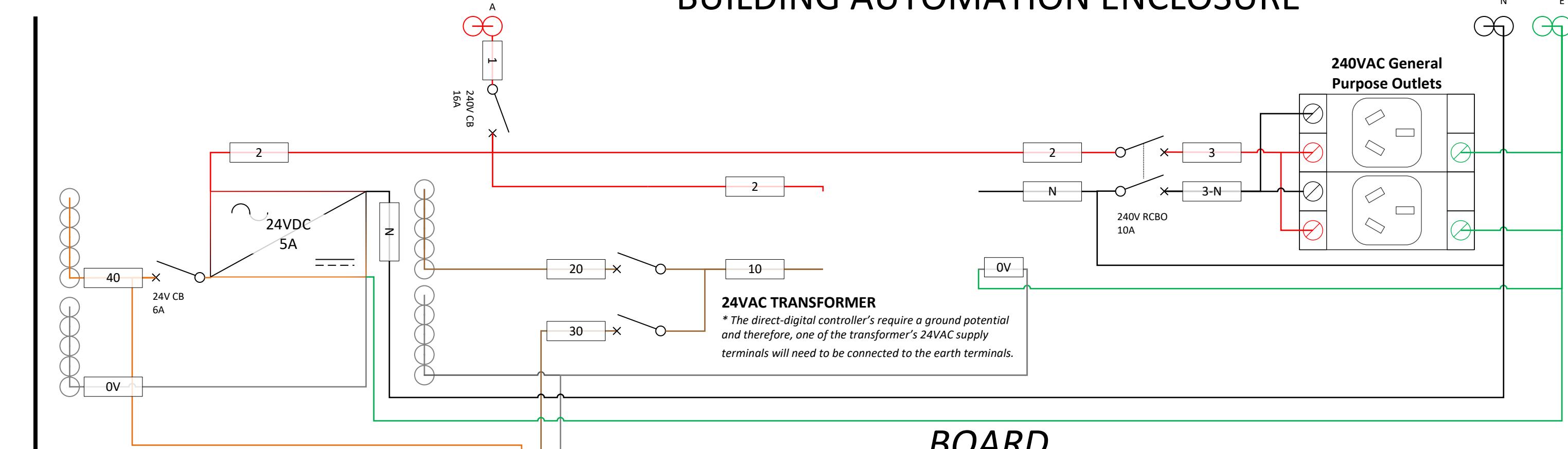
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| CHECKED | AF | FC | 20/06/2025 |
| DOCUMENT SIZE | SCALE | PAGE | 19 OF 47 |
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DRAWING NUMBER
VAE-501081-BMS-MASTER-DOCUMENT-19

BUILDING AUTOMATION ENCLOSURE

FIELD

INPUTS

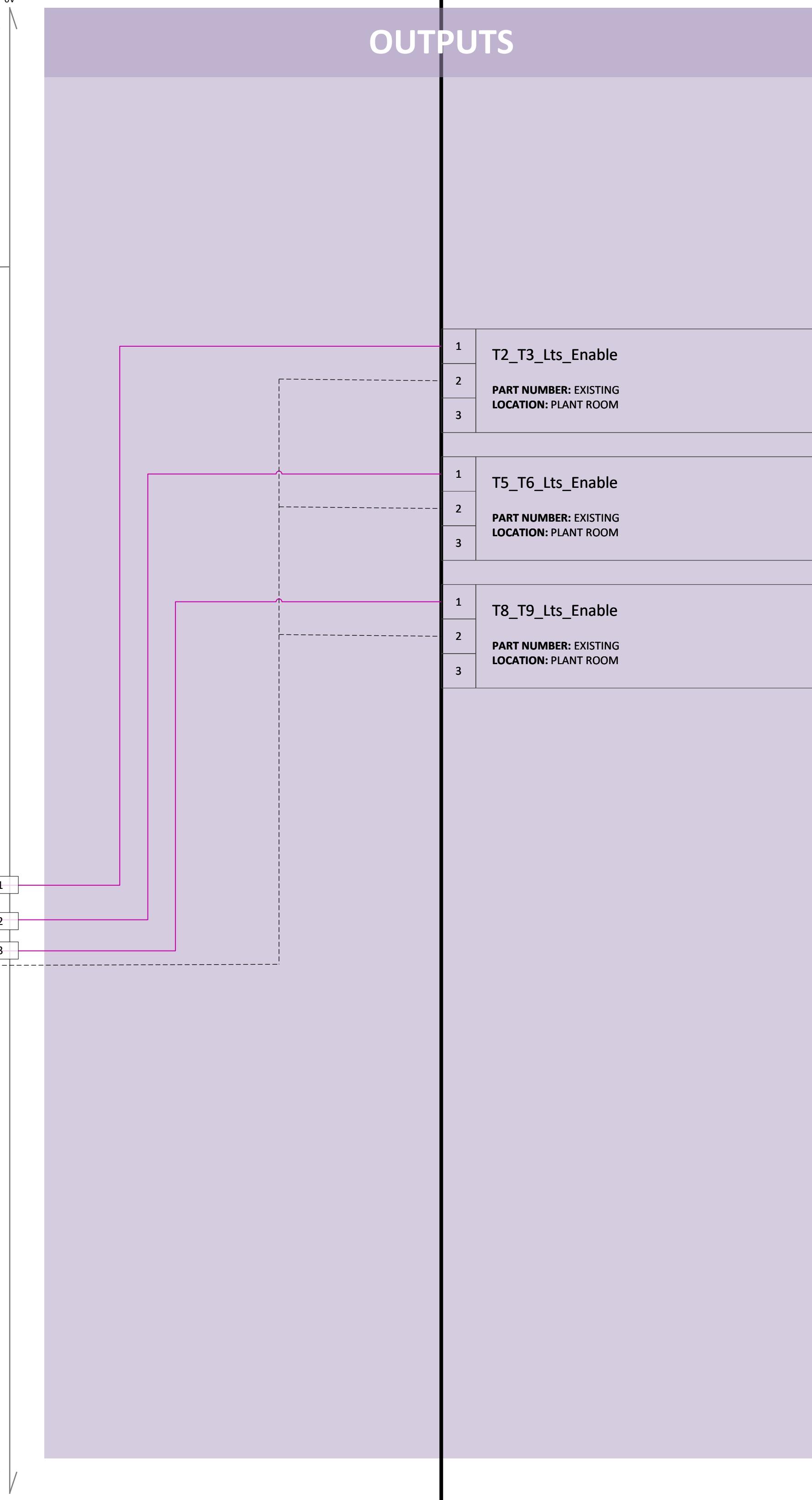


BOARD



FIELD

OUTPUTS



| SCHEMATIC LEGEND | | |
|------------------|-------------------------------------|--|
| | CIRCUIT BREAKER | |
| | RESIDUAL CURRENT CIRCUIT BREAKER | |
| | 240/24VAC TRANSFORMER | |
| | 4MM DIN RAIL MOUNT TERMINAL (RED) | |
| | 4MM DIN RAIL MOUNT TERMINAL (BLACK) | |
| | 4MM DIN RAIL MOUNT TERMINAL (EARTH) | |
| | 4MM DIN RAIL MOUNT TERMINAL (BLUE) | |
| | 4MM DIN RAIL MOUNT TERMINAL (GREY) | |
| | SWITCHBOARD WIRING | |
| | FIELD WIRING | |
| | CABLE LABEL\SLEEVE | |

| WIRING LEGEND | | |
|---------------|-----------|----------|
| FUNCTION | CABLE | TERMINAL |
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

| | | | |
|--------|------------------|-------|------------|
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| FC | For Construction | MZ | 20/06/2025 |
| REV | DESCRIPTION | DRAWN | DATE |
| STATUS | AS BUILT | | |
| CLIENT | | | |

PROJECT TITLE
Rhodes Waterside – EMS & BMS Upgrade
Rhodes

PROJECT NUMBER
501081
DRAWING TITLE
HDB_1B
WIRING DIAGRAM

COMPANY
 SMARTER HVAC SOLUTIONS
Built in certainty

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1300 VAE VAE
VAEGROUP.COM.AU

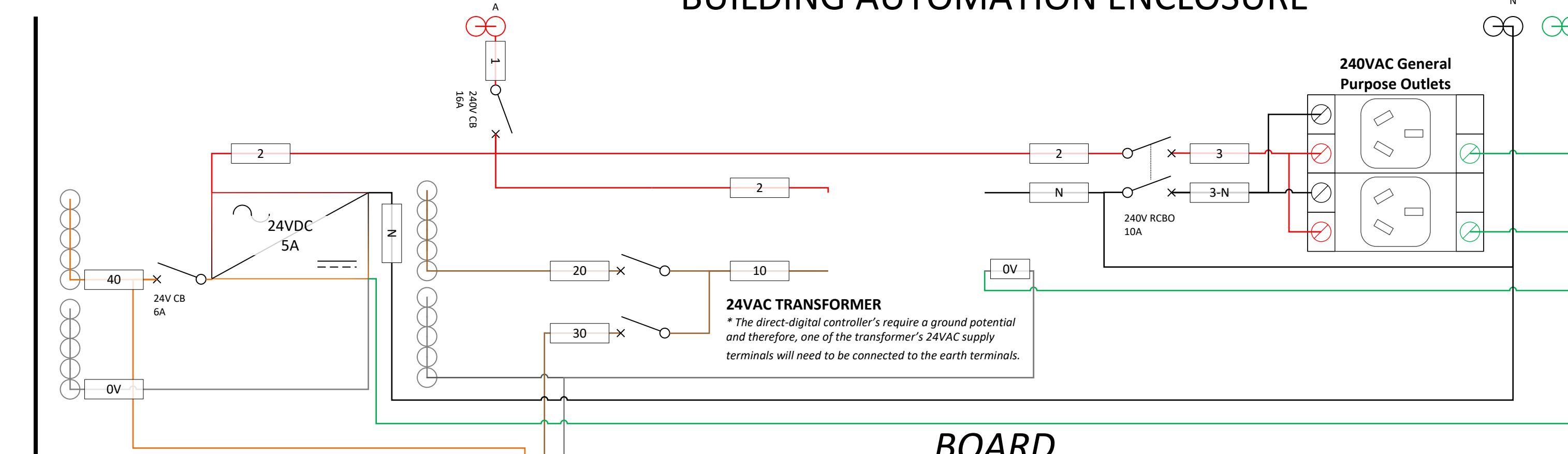
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| DRAWN | MZ | REVISION | CREATED |
| CHECKED | AF | FC | 20/06/2025 |
| DOCUMENT SIZE | SCALE | PAGE | 20 OF 47 |
| A1 | NTS | | |

DRAWING NUMBER
VAE-501081-BMS-MASTER-DOCUMENT-20

BUILDING AUTOMATION ENCLOSURE

FIELD

INPUTS

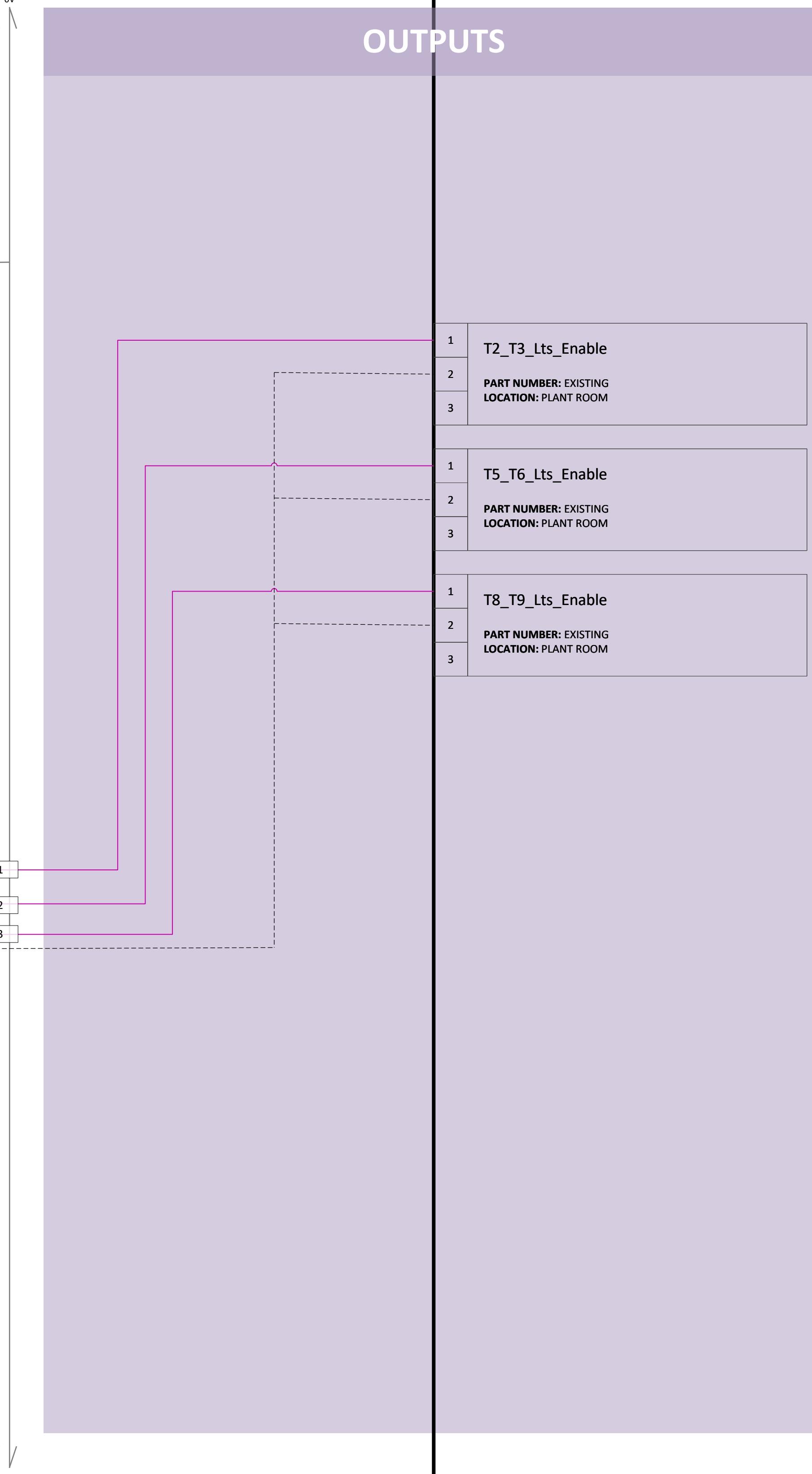


BOARD



FIELD

OUTPUTS



| SCHEMATIC LEGEND | | |
|------------------|-------------------------------------|--|
| | CIRCUIT BREAKER | |
| | RESIDUAL CURRENT CIRCUIT BREAKER | |
| | 240/24VAC TRANSFORMER | |
| | 4MM DIN RAIL MOUNT TERMINAL (RED) | |
| | 4MM DIN RAIL MOUNT TERMINAL (BLACK) | |
| | 4MM DIN RAIL MOUNT TERMINAL (EARTH) | |
| | 4MM DIN RAIL MOUNT TERMINAL (BLUE) | |
| | 4MM DIN RAIL MOUNT TERMINAL (GREY) | |
| | SWITCHBOARD WIRING | |
| | FIELD WIRING | |
| | CABLE LABEL\ SLEEVE | |

| WIRING LEGEND | | |
|---------------|-----------|----------|
| FUNCTION | CABLE | TERMINAL |
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

| | | | |
|--------|------------------|-------|------------|
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| FC | For Construction | MZ | 20/06/2025 |
| REV | DESCRIPTION | DRAWN | DATE |
| STATUS | AS BUILT | | |
| CLIENT | | | |



PROJECT TITLE
Rhodes Waterside – EMS & BMS Upgrade
Rhodes

PROJECT NUMBER
501081
DRAWING TITLE
HDB_1C
WIRING DIAGRAM

COMPANY
 SMARTER HVAC SOLUTIONS
Built in certainty

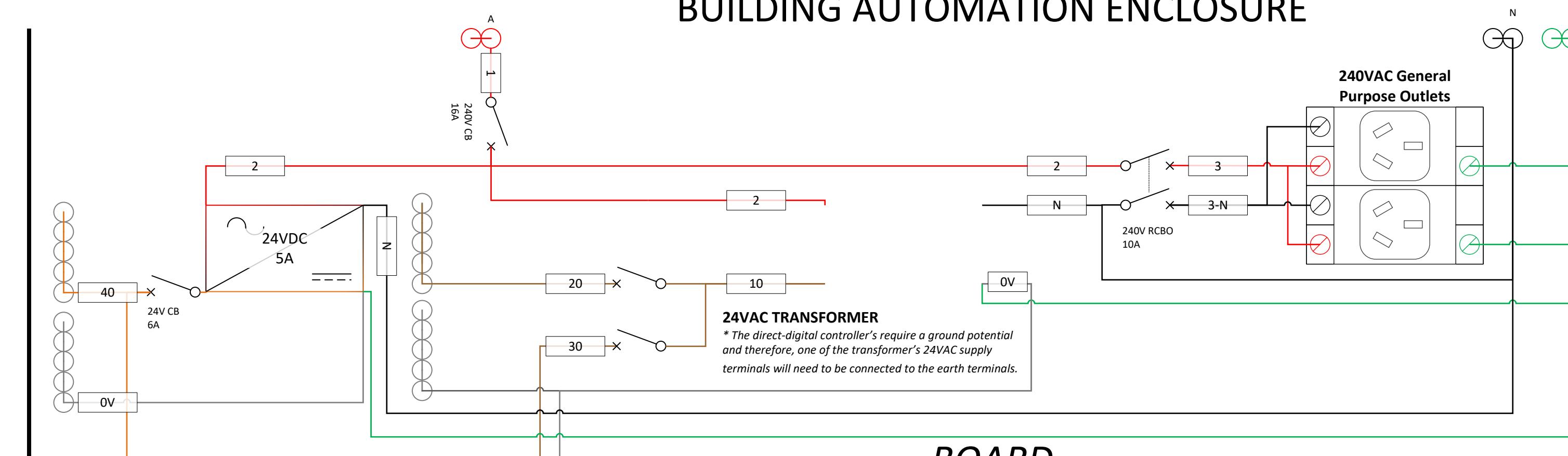
LEVEL 1/189 KENT STREET, SYDNEY NSW 2000
1300 VAE VAE
VAEGROUP.COM.AU

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|---------------|----|----------|-----|------------|
| DRAWN | MZ | REVISION | FC | CREATED |
| CHECKED | AF | | | 20/06/2025 |
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DRAWING NUMBER
VAE-501081-BMS-MASTER-DOCUMENT-21



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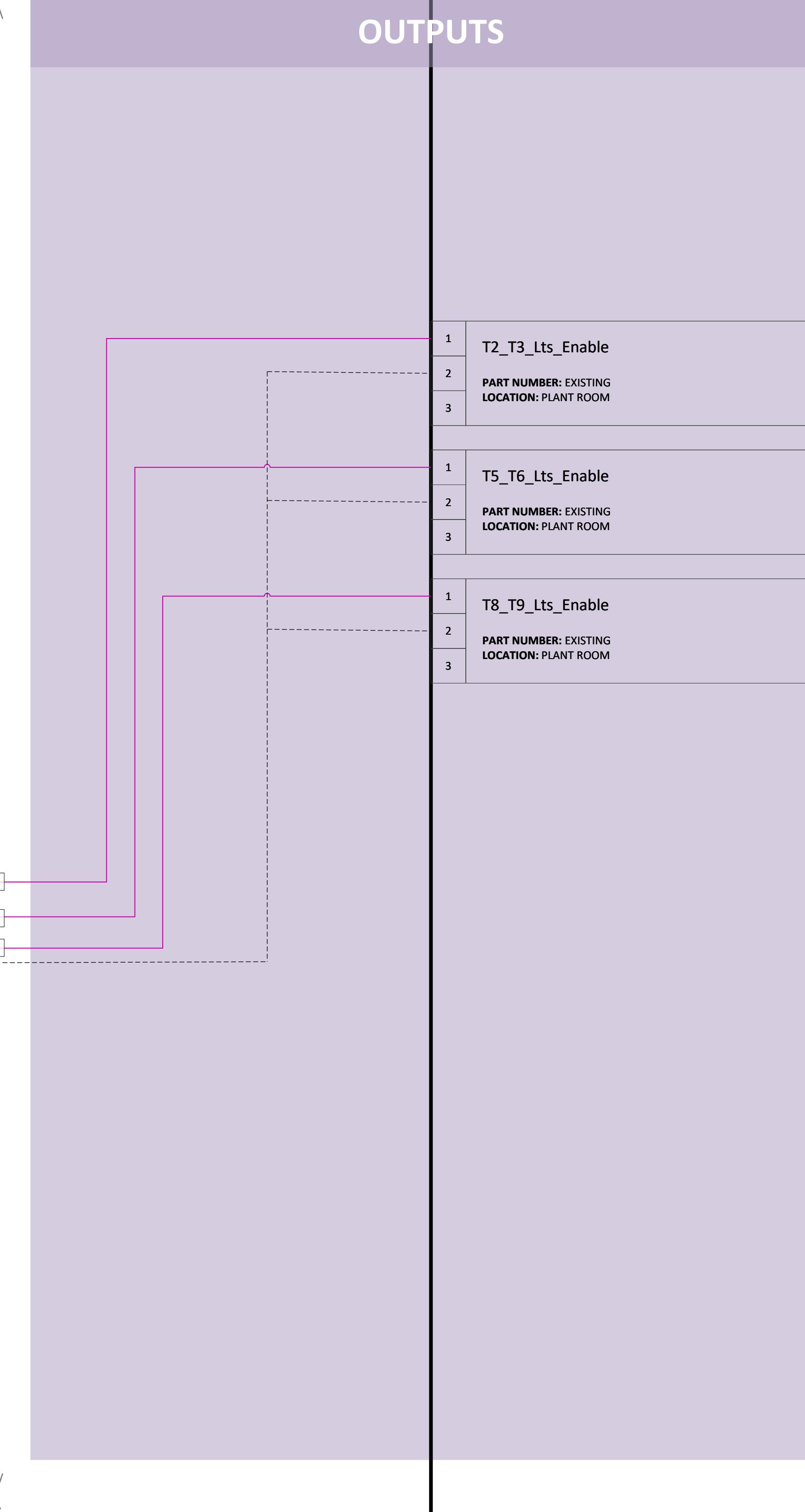


BOARD



FIELD

OUTPUTS



SCHEMATIC LEGEND

CIRCUIT BREAKER

RESIDUAL CURRENT CIRCUIT BREAKER

240/24VAC TRANSFORMER

4MM DIN RAIL MOUNT TERMINAL (RED)

4MM DIN RAIL MOUNT TERMINAL (BLACK)

4MM DIN RAIL MOUNT TERMINAL (EARTH)

4MM DIN RAIL MOUNT TERMINAL (BLUE)

4MM DIN RAIL MOUNT TERMINAL (GREY)

SWITCHBOARD WIRING

FIELD WIRING

CABLE LABEL\SLEEVE

| FUNCTION | CABLE | TERMINAL |
|------------|-----------|----------|
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

**POWER CONDUCTORS TO BE PHASE COLOURED AND A
MINIMUM OF 2.5MM² COPPER.**

| FUNCTION | CABLE | TERMINAL | |
|---|------------------|----------|------------|
| 240VAC | RED | RED | |
| 240N | BLACK | BLACK | |
| 24VAC | BROWN | BLUE | |
| 0VAC | GREY | GREY | |
| 24VDC | ORANGE | BLUE | |
| 0VDC | PURPLE | GREY | |
| BMS INPUT | BLUE | GREY | |
| BMS OUTPUT | PINK | GREY | |
| FIRE | BROWN/RED | GREY | |
| <i>POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.</i> | | | |
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| FC | For Construction | MZ | 20/06/2025 |
| REV | DESCRIPTION | DRAWN | DATE |
| STATUS | AS BUILT | | |
| CLIENT | | | |



Rhodes Waterside – EMS & BMS Upgrade

Rhodes

PROJECT NUMBER F01081

DRAWING TITLE

HDB_1D

WIRING DIAGRAM

VAE GROUP

SMARTER HVAC SOLUTIONS

GROUP **Built in certainty**
LEVEL 1/189 KENT STREET, SYDNEY NSW 2000
1300 VAE VAE
VAEGROUP.COM.AU

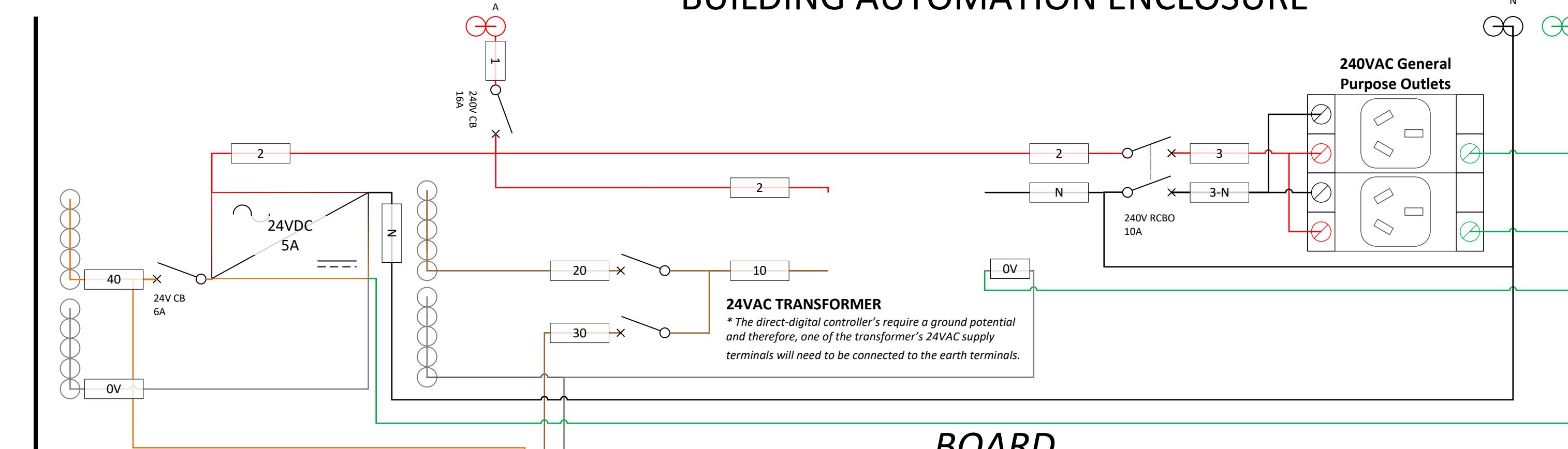
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| DRAWN MZ | REVISION FC | CREATED 20/06/2025 |
| CHECKED AF | | |
| DOCUMENT SIZE A1 | SCALE NTS | PAGE 22 OF 47 |

DRAWING NUMBER
VAE-501081-BMS-MASTER-
DOCUMENT-22

BUILDING AUTOMATION ENCLOSURE

FIELD

INPUTS

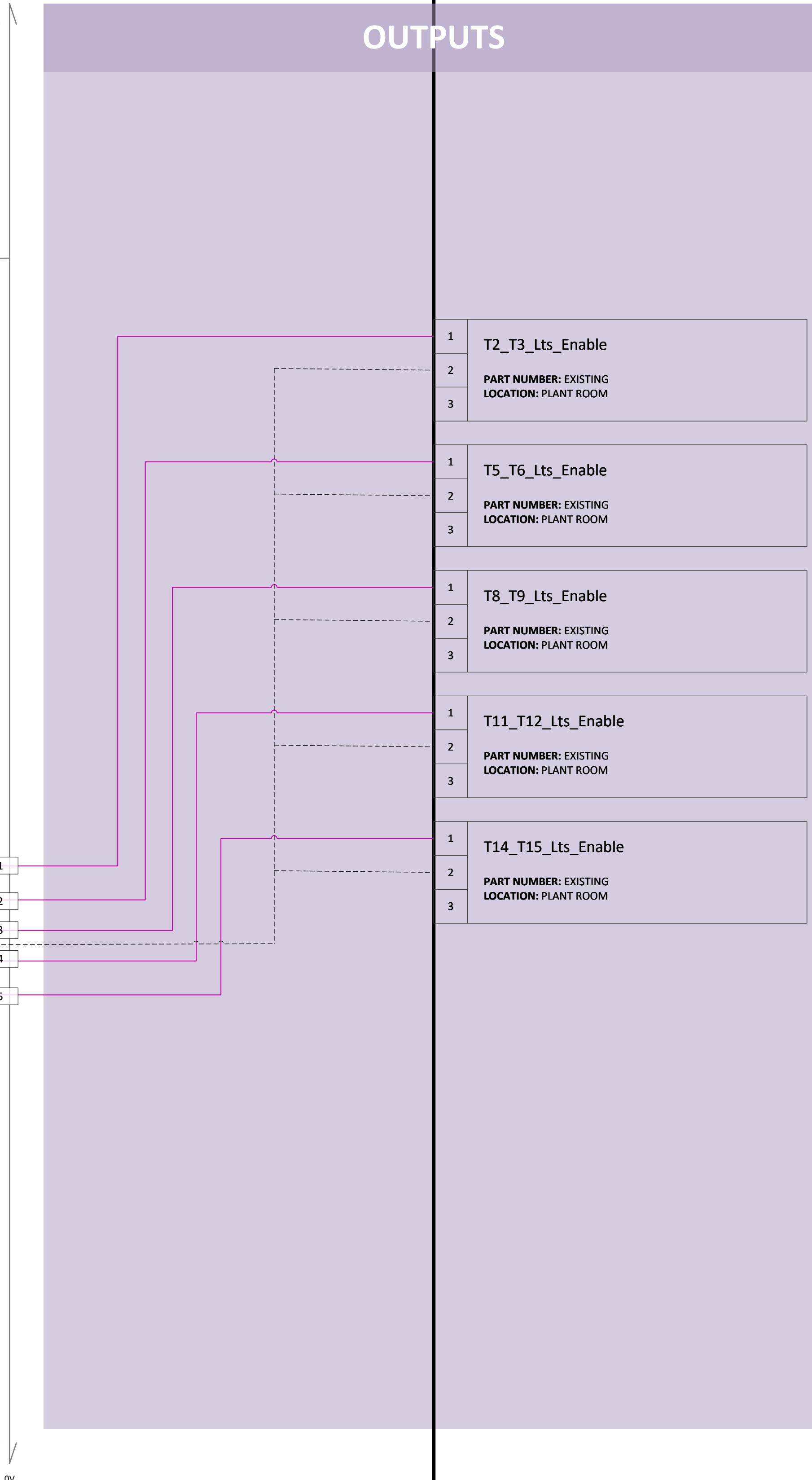


BOARD



FIELD

OUTPUTS



| SCHEMATIC LEGEND | |
|------------------|-------------------------------------|
| | CIRCUIT BREAKER |
| | RESIDUAL CURRENT CIRCUIT BREAKER |
| | 240/24VAC TRANSFORMER |
| | 4MM DIN RAIL MOUNT TERMINAL (RED) |
| | 4MM DIN RAIL MOUNT TERMINAL (BLACK) |
| | 4MM DIN RAIL MOUNT TERMINAL (EARTH) |
| | 4MM DIN RAIL MOUNT TERMINAL (BLUE) |
| | 4MM DIN RAIL MOUNT TERMINAL (GREY) |
| | SWITCHBOARD WIRING |
| | FIELD WIRING |
| | CABLE LABEL\ SLEEVE |

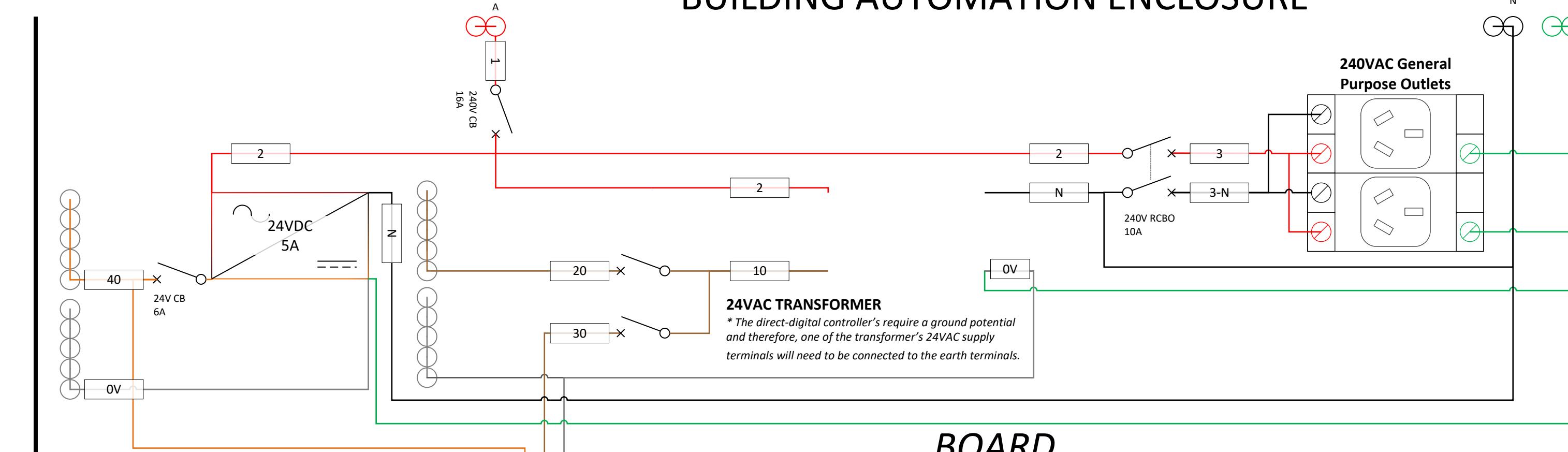
| WIRING LEGEND | | |
|---------------|-----------|----------|
| FUNCTION | CABLE | TERMINAL |
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

BUILDING AUTOMATION ENCLOSURE

FIELD

INPUTS

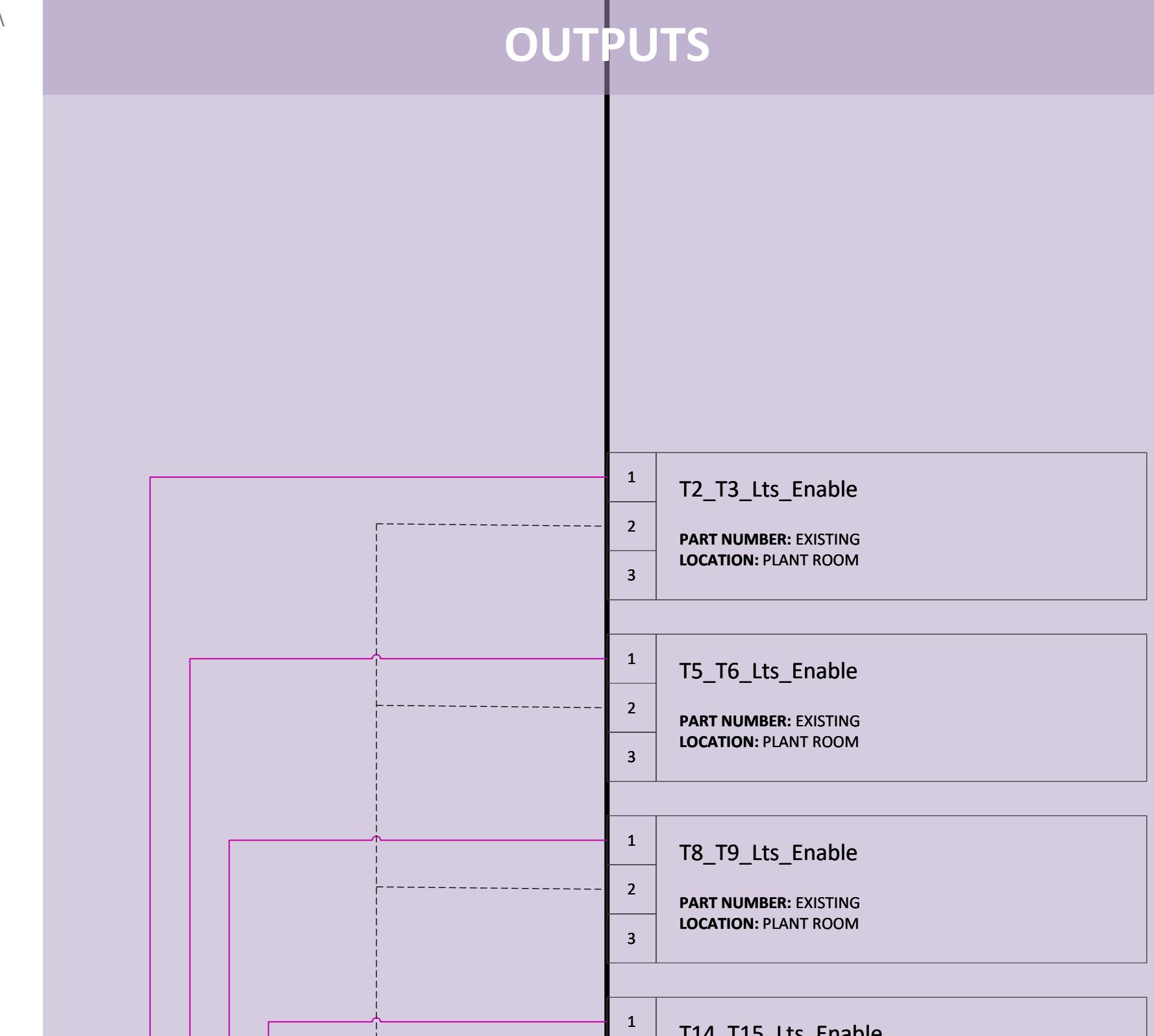


BOARD



FIELD

OUTPUTS



| SCHEMATIC LEGEND | | |
|------------------|---|-------------------------------------|
| | X | CIRCUIT BREAKER |
| | X | RESIDUAL CURRENT CIRCUIT BREAKER |
| | — | 240/24VAC TRANSFORMER |
| | — | 4MM DIN RAIL MOUNT TERMINAL (RED) |
| | — | 4MM DIN RAIL MOUNT TERMINAL (BLACK) |
| | — | 4MM DIN RAIL MOUNT TERMINAL (EARTH) |
| | — | 4MM DIN RAIL MOUNT TERMINAL (BLUE) |
| | — | 4MM DIN RAIL MOUNT TERMINAL (GREY) |
| — | — | SWITCHBOARD WIRING |
| — | — | FIELD WIRING |
| | X | CABLE LABEL\ SLEEVE |

| WIRING LEGEND | | |
|---------------|-----------|----------|
| FUNCTION | CABLE | TERMINAL |
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

| | | |
|---|--------------------|-----------------------|
| 1 | T2_T3_Lts_Enable | PART NUMBER: EXISTING |
| 2 | | LOCATION: PLANT ROOM |
| 3 | | |
| 1 | T5_T6_Lts_Enable | PART NUMBER: EXISTING |
| 2 | | LOCATION: PLANT ROOM |
| 3 | | |
| 1 | T8_T9_Lts_Enable | PART NUMBER: EXISTING |
| 2 | | LOCATION: PLANT ROOM |
| 3 | | |
| 1 | T14_T15_Lts_Enable | PART NUMBER: EXISTING |
| 2 | | LOCATION: PLANT ROOM |
| 3 | | |

FC For Construction MZ 20/06/2025
REV DESCRIPTION DRAWN DATE
AS BUILT
CLIENT

PROJECT TITLE Rhodes Waterside – EMS & BMS Upgrade Rhodes

PROJECT NUMBER 501081

DRAWING TITLE HDB_1F WIRING DIAGRAM

COMPANY SMARTER HVAC SOLUTIONS **Built in certainty**
LEVEL 1/189 KENT STREET, SYDNEY NSW 2000
1300 VAE VAE
VAEGROUP.COM.AU

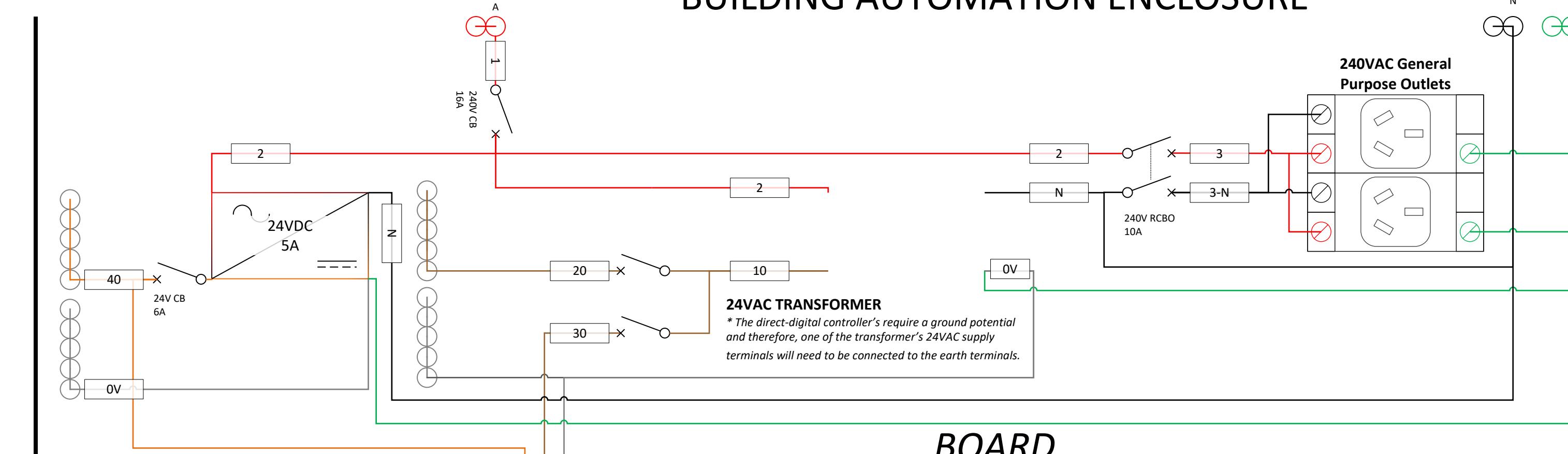
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CHECKED AF FC 20/06/2025
DOCUMENT SIZE A1 SCALE NTS PAGE 24 OF 47

DRAWING NUMBER VAE-501081-BMS-MASTER-DOCUMENT-24

BUILDING AUTOMATION ENCLOSURE

FIELD

INPUTS

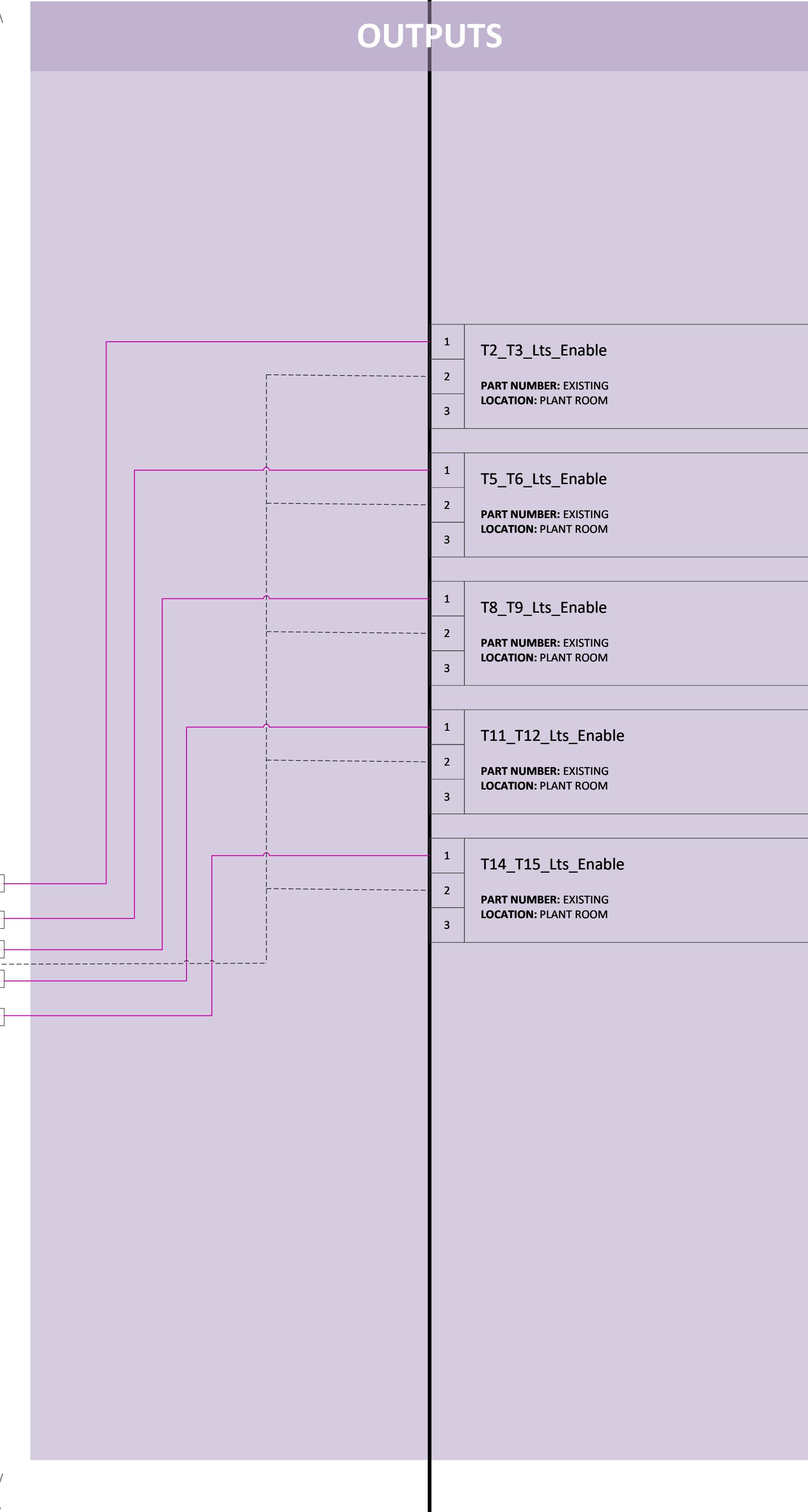


BOARD



FIELD

OUTPUTS



| SCHEMATIC LEGEND | | |
|------------------|-------------------------------------|--|
| | CIRCUIT BREAKER | |
| | RESIDUAL CURRENT CIRCUIT BREAKER | |
| | 240/24VAC TRANSFORMER | |
| | 4MM DIN RAIL MOUNT TERMINAL (RED) | |
| | 4MM DIN RAIL MOUNT TERMINAL (BLACK) | |
| | 4MM DIN RAIL MOUNT TERMINAL (EARTH) | |
| | 4MM DIN RAIL MOUNT TERMINAL (BLUE) | |
| | 4MM DIN RAIL MOUNT TERMINAL (GREY) | |
| | SWITCHBOARD WIRING | |
| | FIELD WIRING | |
| | CABLE LABEL\SLEEVE | |

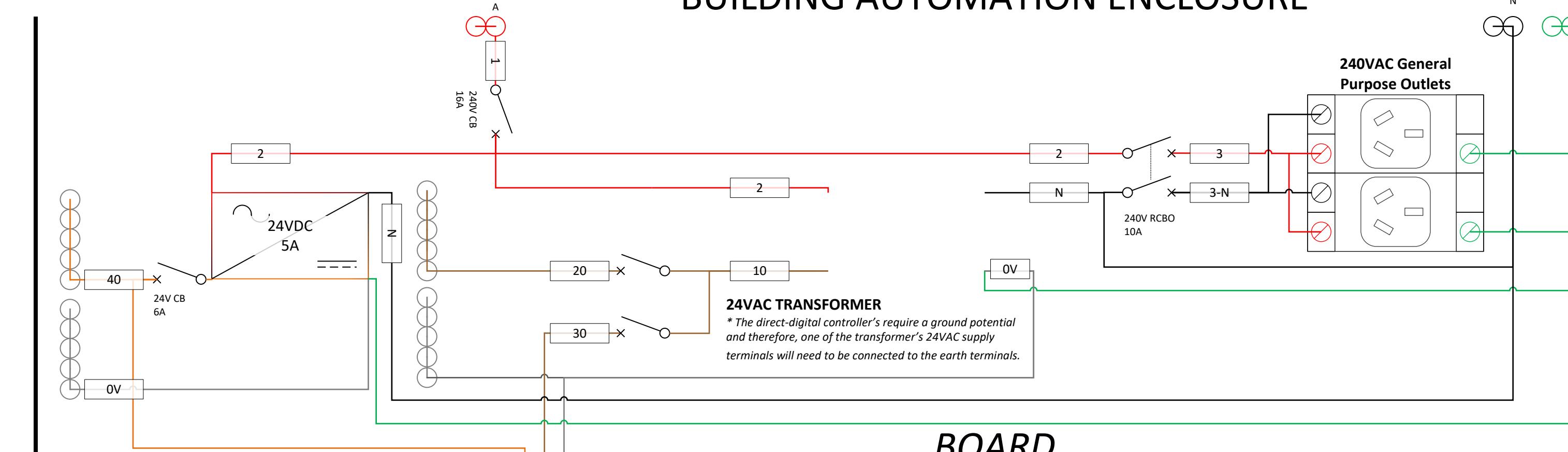
| WIRING LEGEND | | |
|---------------|-----------|----------|
| FUNCTION | CABLE | TERMINAL |
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

BUILDING AUTOMATION ENCLOSURE

FIELD

INPUTS

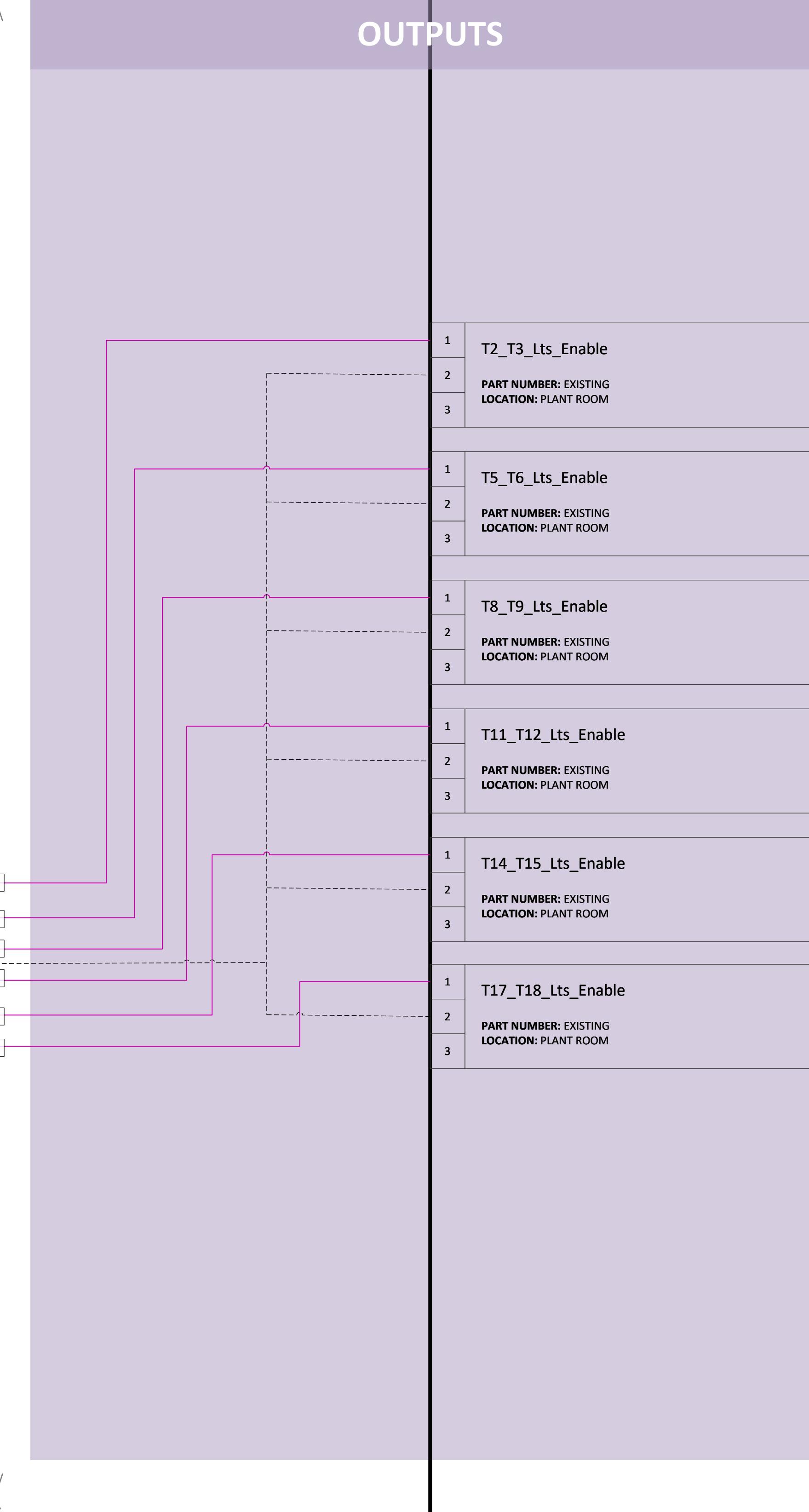


BOARD



FIELD

OUTPUTS



| SCHEMATIC LEGEND | | |
|------------------|-------------------------------------|--|
| | CIRCUIT BREAKER | |
| | RESIDUAL CURRENT CIRCUIT BREAKER | |
| | 240/24VAC TRANSFORMER | |
| | 4MM DIN RAIL MOUNT TERMINAL (RED) | |
| | 4MM DIN RAIL MOUNT TERMINAL (BLACK) | |
| | 4MM DIN RAIL MOUNT TERMINAL (EARTH) | |
| | 4MM DIN RAIL MOUNT TERMINAL (BLUE) | |
| | 4MM DIN RAIL MOUNT TERMINAL (GREY) | |
| | SWITCHBOARD WIRING | |
| | FIELD WIRING | |
| | CABLE LABEL\ SLEEVE | |

| WIRING LEGEND | | |
|---------------|-----------|----------|
| FUNCTION | CABLE | TERMINAL |
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

| | | |
|------------|-----------|----------|
| FUNCTION | CABLE | TERMINAL |
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

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POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

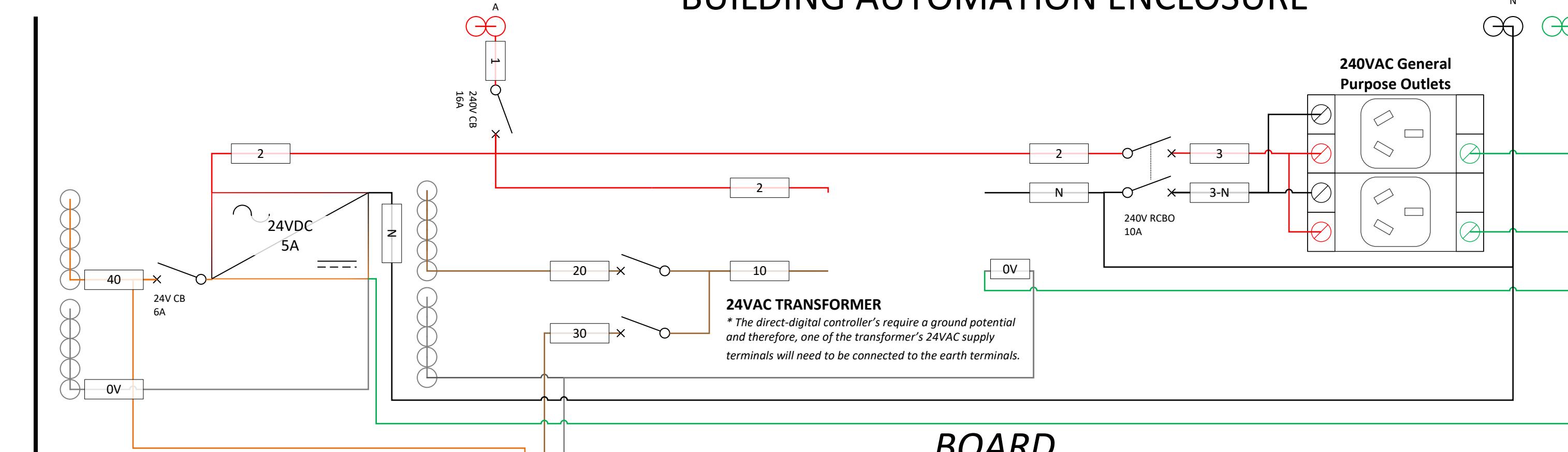
POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

BUILDING AUTOMATION ENCLOSURE

FIELD

INPUTS

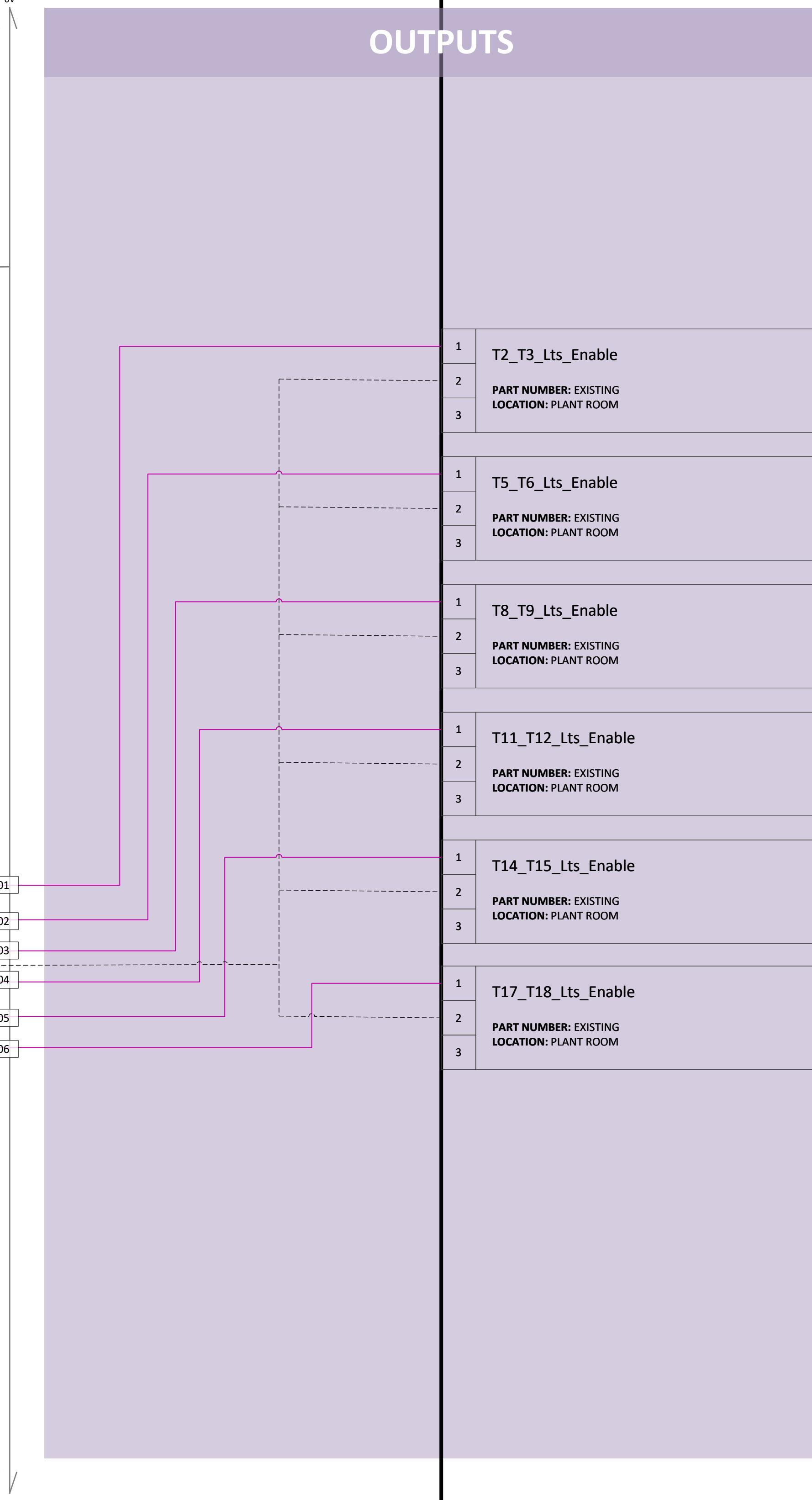


BOARD



FIELD

OUTPUTS



| SCHEMATIC LEGEND | | |
|------------------|-------------------------------------|--|
| | CIRCUIT BREAKER | |
| | RESIDUAL CURRENT CIRCUIT BREAKER | |
| | 240/24VAC TRANSFORMER | |
| | 4MM DIN RAIL MOUNT TERMINAL (RED) | |
| | 4MM DIN RAIL MOUNT TERMINAL (BLACK) | |
| | 4MM DIN RAIL MOUNT TERMINAL (EARTH) | |
| | 4MM DIN RAIL MOUNT TERMINAL (BLUE) | |
| | 4MM DIN RAIL MOUNT TERMINAL (GREY) | |
| | SWITCHBOARD WIRING | |
| | FIELD WIRING | |
| | CABLE LABEL\ SLEEVE | |

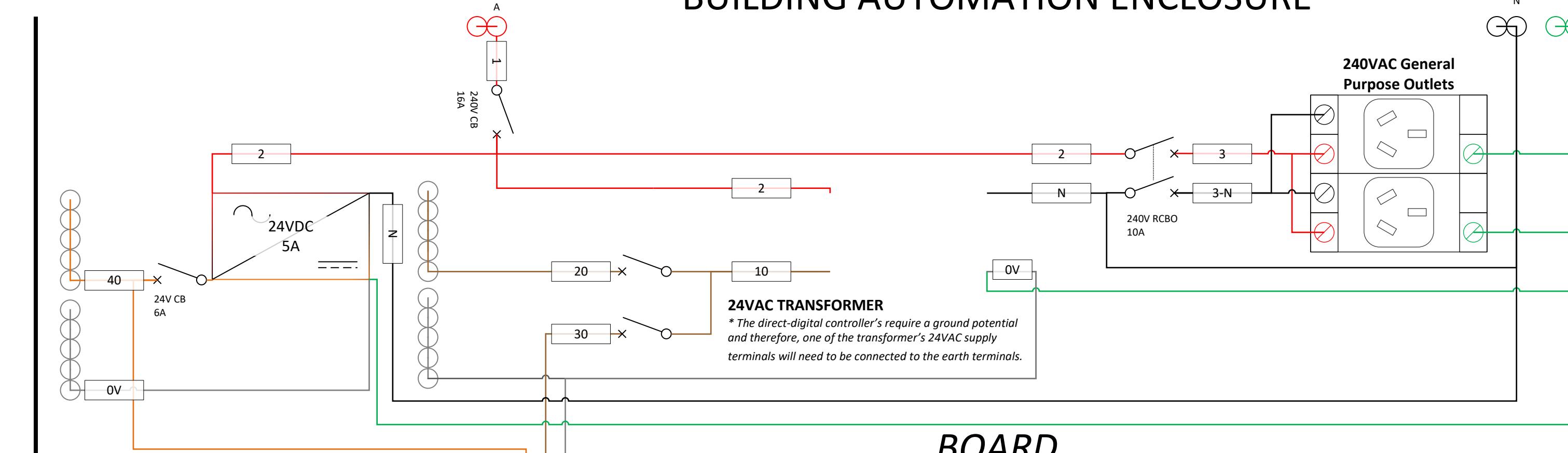
| WIRING LEGEND | | |
|---------------|-----------|----------|
| FUNCTION | CABLE | TERMINAL |
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

BUILDING AUTOMATION ENCLOSURE

FIELD

INPUTS

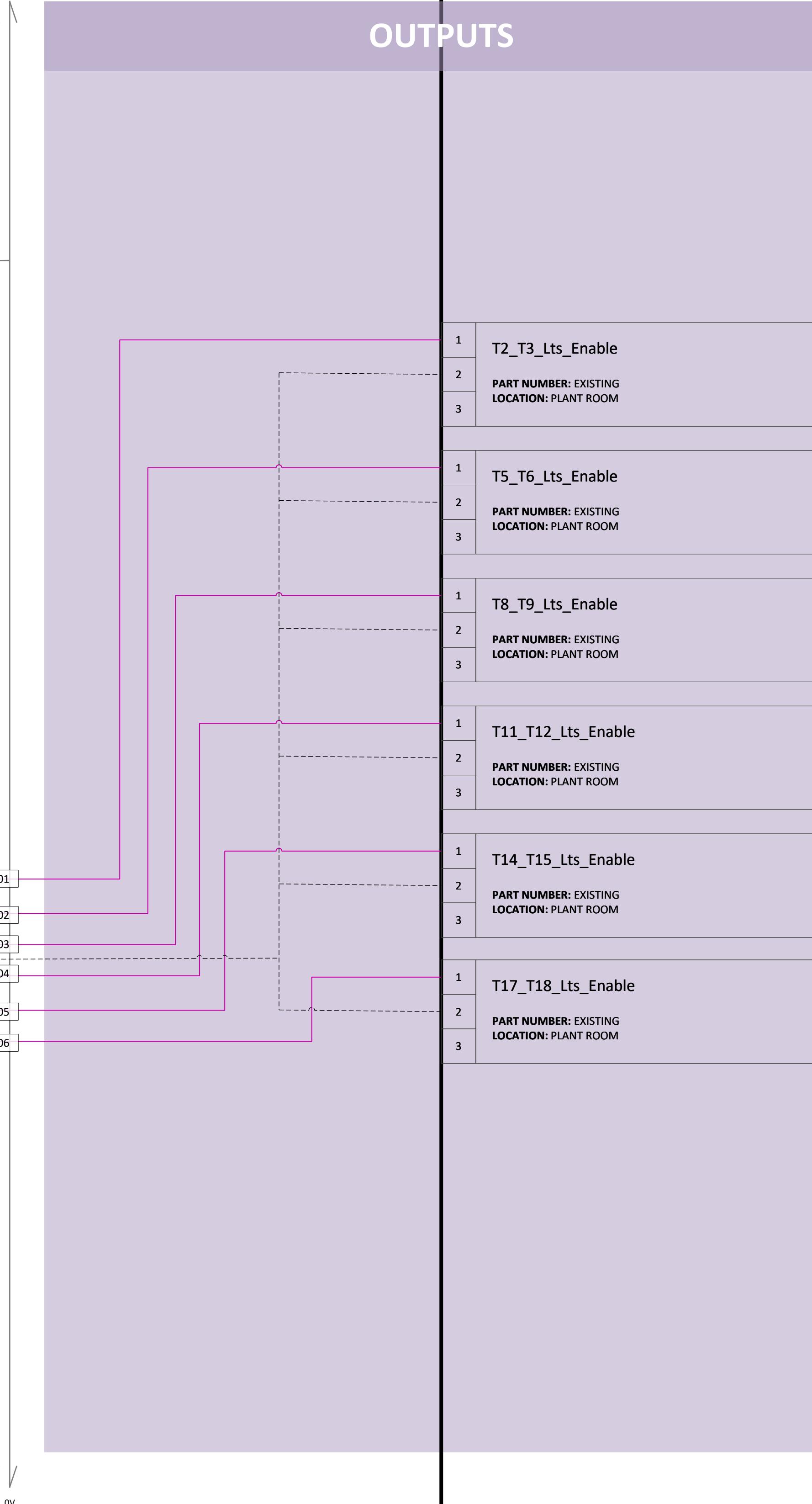


BOARD



FIELD

OUTPUTS



| SCHEMATIC LEGEND | | |
|------------------|-------------------------------------|--|
| | CIRCUIT BREAKER | |
| | RESIDUAL CURRENT CIRCUIT BREAKER | |
| | 240/24VAC TRANSFORMER | |
| | 4MM DIN RAIL MOUNT TERMINAL (RED) | |
| | 4MM DIN RAIL MOUNT TERMINAL (BLACK) | |
| | 4MM DIN RAIL MOUNT TERMINAL (EARTH) | |
| | 4MM DIN RAIL MOUNT TERMINAL (BLUE) | |
| | 4MM DIN RAIL MOUNT TERMINAL (GREY) | |
| | SWITCHBOARD WIRING | |
| | FIELD WIRING | |
| | CABLE LABEL\ SLEEVE | |

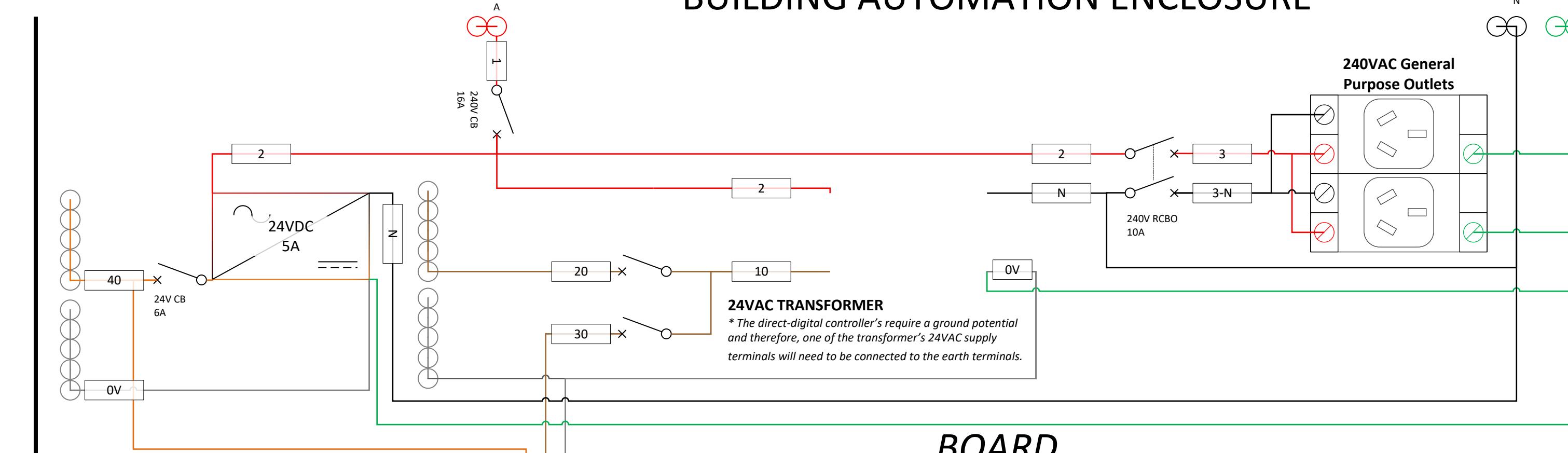
| WIRING LEGEND | | |
|---------------|-----------|----------|
| FUNCTION | CABLE | TERMINAL |
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

BUILDING AUTOMATION ENCLOSURE

FIELD

INPUTS

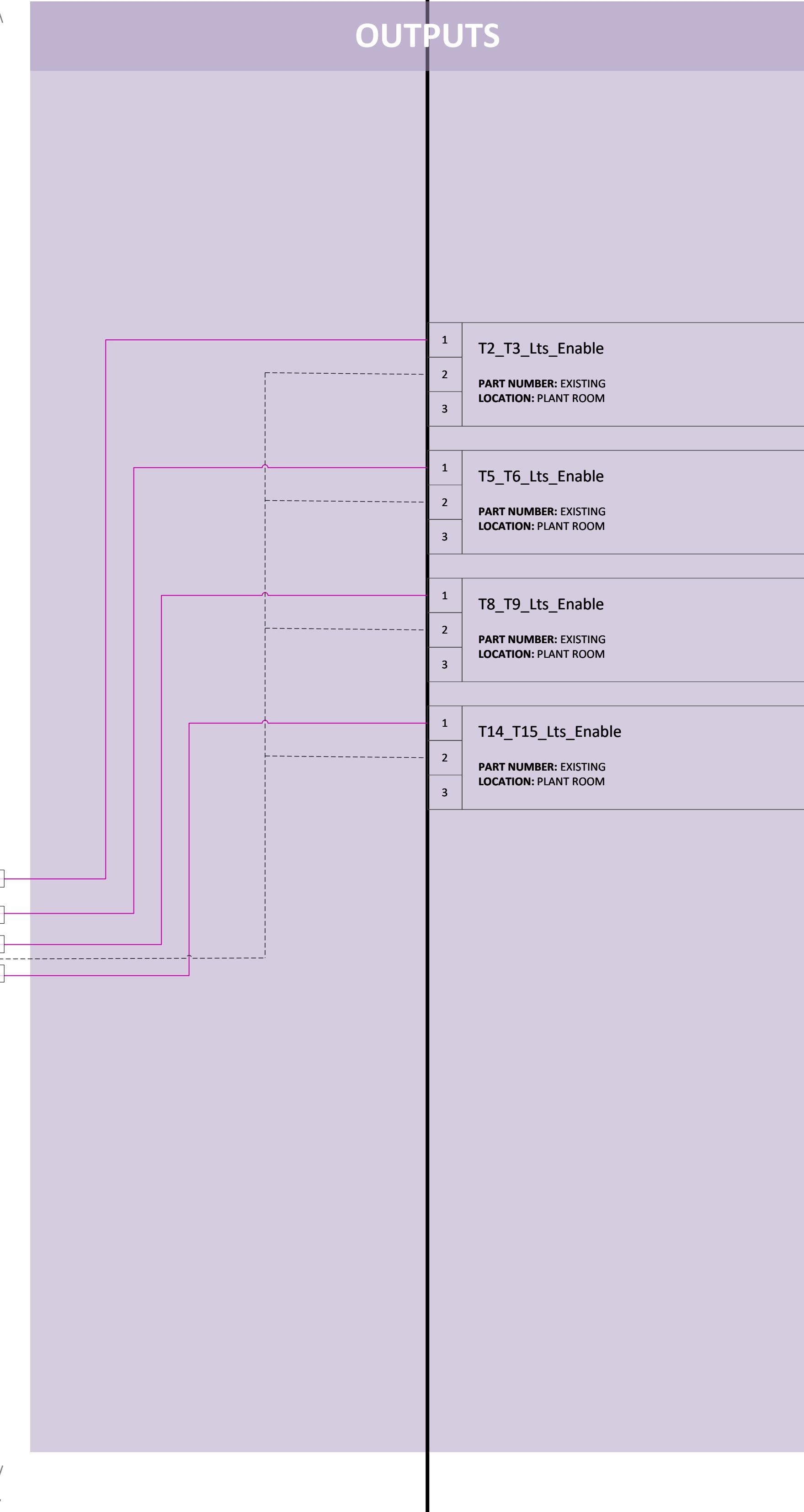


BOARD



FIELD

OUTPUTS



| SCHEMATIC LEGEND | |
|------------------|-------------------------------------|
| | CIRCUIT BREAKER |
| | RESIDUAL CURRENT CIRCUIT BREAKER |
| | 240/24VAC TRANSFORMER |
| | 4MM DIN RAIL MOUNT TERMINAL (RED) |
| | 4MM DIN RAIL MOUNT TERMINAL (BLACK) |
| | 4MM DIN RAIL MOUNT TERMINAL (EARTH) |
| | 4MM DIN RAIL MOUNT TERMINAL (BLUE) |
| | 4MM DIN RAIL MOUNT TERMINAL (GREY) |
| | SWITCHBOARD WIRING |
| | FIELD WIRING |
| | CABLE LABEL\ SLEEVE |

| WIRING LEGEND | | |
|---------------|-----------|----------|
| FUNCTION | CABLE | TERMINAL |
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

FUNCTION CABLE TERMINAL

240VAC RED RED

240N BLACK BLACK

24VAC BROWN BLUE

0VAC GREY GREY

24VDC ORANGE BLUE

0VDC PURPLE GREY

BMS INPUT BLUE GREY

BMS OUTPUT PINK GREY

FIRE BROWN/RED GREY

AS BUILT

mirvac

PROJECT TITLE
Rhodes Waterside – EMS & BMS Upgrade

Rhodes

PROJECT NUMBER
501081

DRAWING TITLE
HDB_3A
WIRING DIAGRAM

COMPANY
VAE GROUP SMARTER HVAC SOLUTIONS
Built in certainty

LEVEL 1/189 KENT STREET, SYDNEY NSW 2000
1300 VAE VAE
VAEGROUP.COM.AU

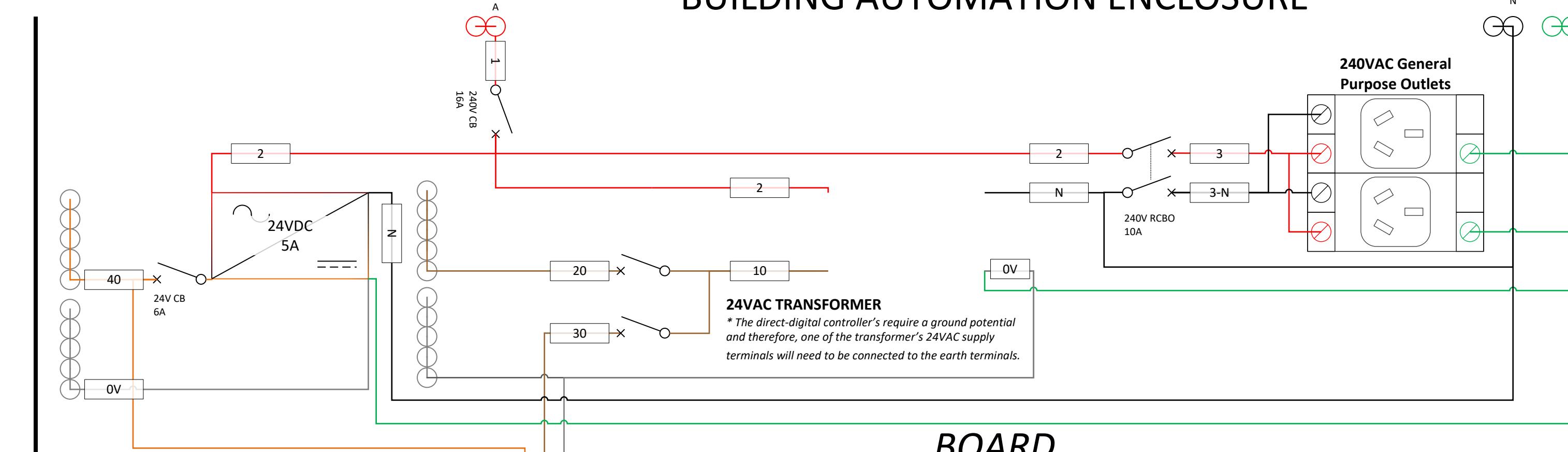
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CHECKED AF
DOCUMENT SIZE A1
REVISION FC
CREATED 20/06/2025
PAGE NTS
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DRAWING NUMBER
VAE-501081-BMS-MASTER-
DOCUMENT-29

BUILDING AUTOMATION ENCLOSURE

FIELD

INPUTS

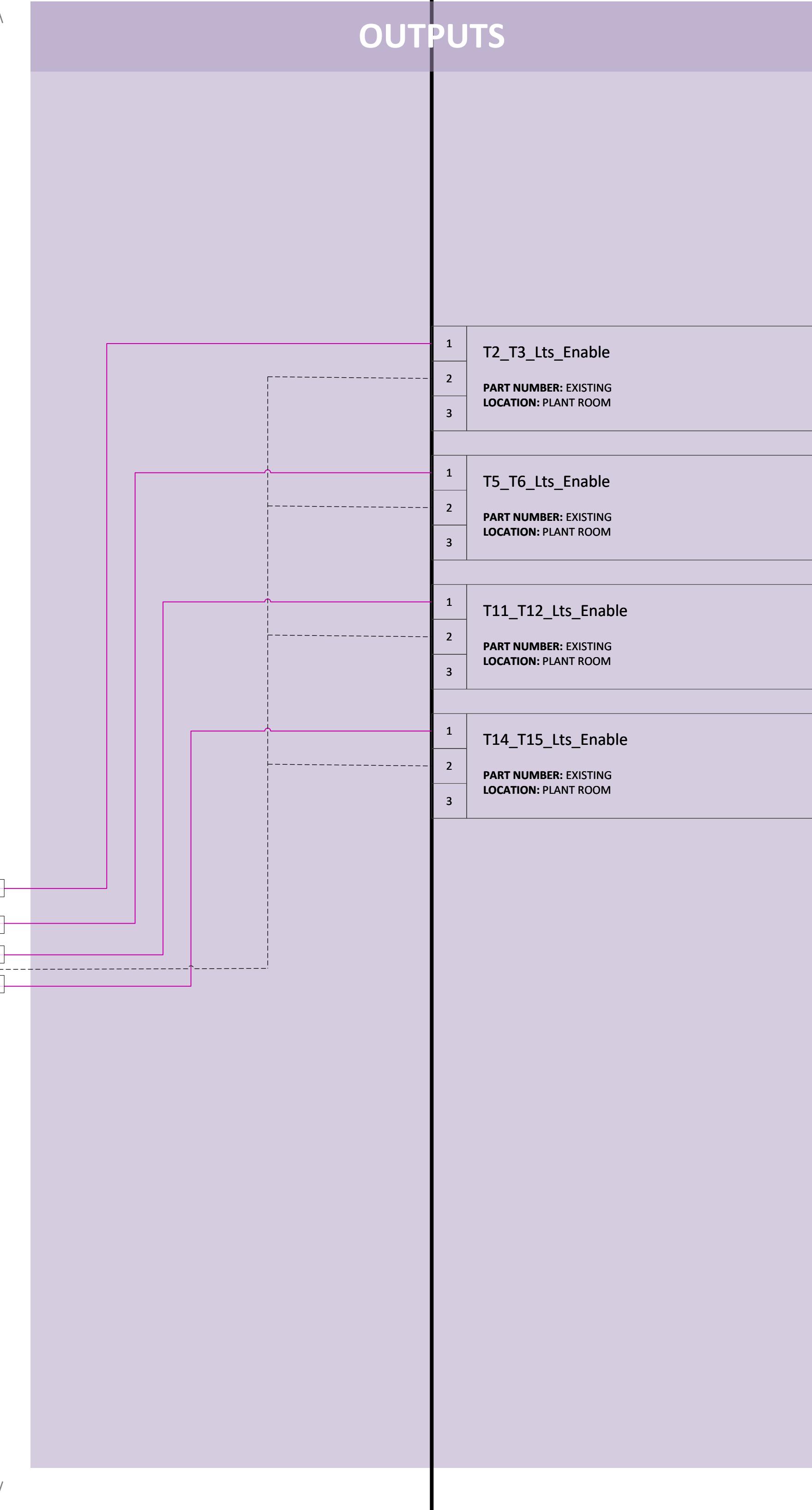


BOARD



FIELD

OUTPUTS



| SCHEMATIC LEGEND | | |
|------------------|-------------------------------------|--|
| | CIRCUIT BREAKER | |
| | RESIDUAL CURRENT CIRCUIT BREAKER | |
| | 240/24VAC TRANSFORMER | |
| | 4MM DIN RAIL MOUNT TERMINAL (RED) | |
| | 4MM DIN RAIL MOUNT TERMINAL (BLACK) | |
| | 4MM DIN RAIL MOUNT TERMINAL (EARTH) | |
| | 4MM DIN RAIL MOUNT TERMINAL (BLUE) | |
| | 4MM DIN RAIL MOUNT TERMINAL (GREY) | |
| | SWITCHBOARD WIRING | |
| | FIELD WIRING | |
| | CABLE LABEL\SLEEVE | |

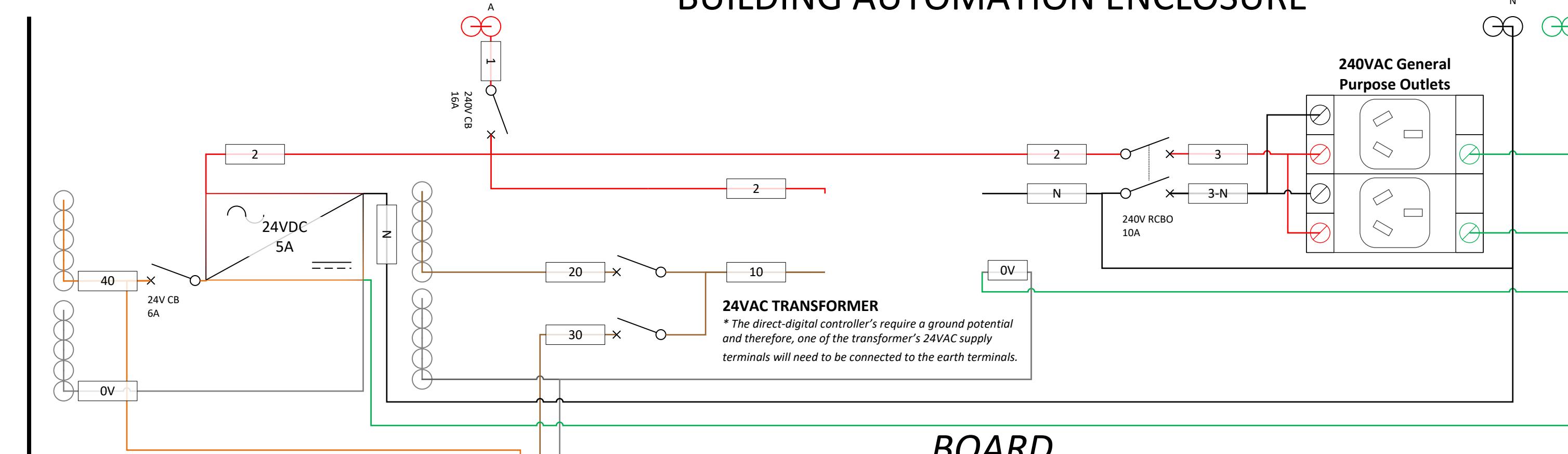
| WIRING LEGEND | | |
|---------------|-----------|----------|
| FUNCTION | CABLE | TERMINAL |
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

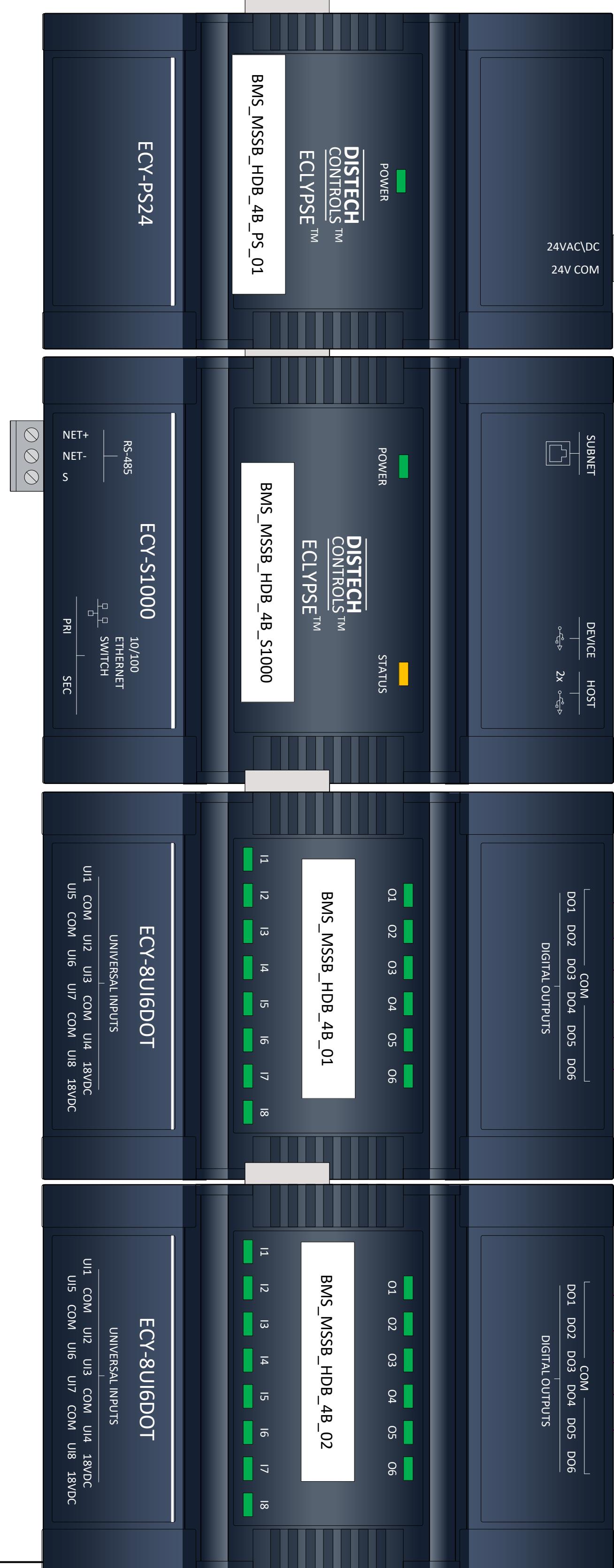
BUILDING AUTOMATION ENCLOSURE

FIELD

INPUTS

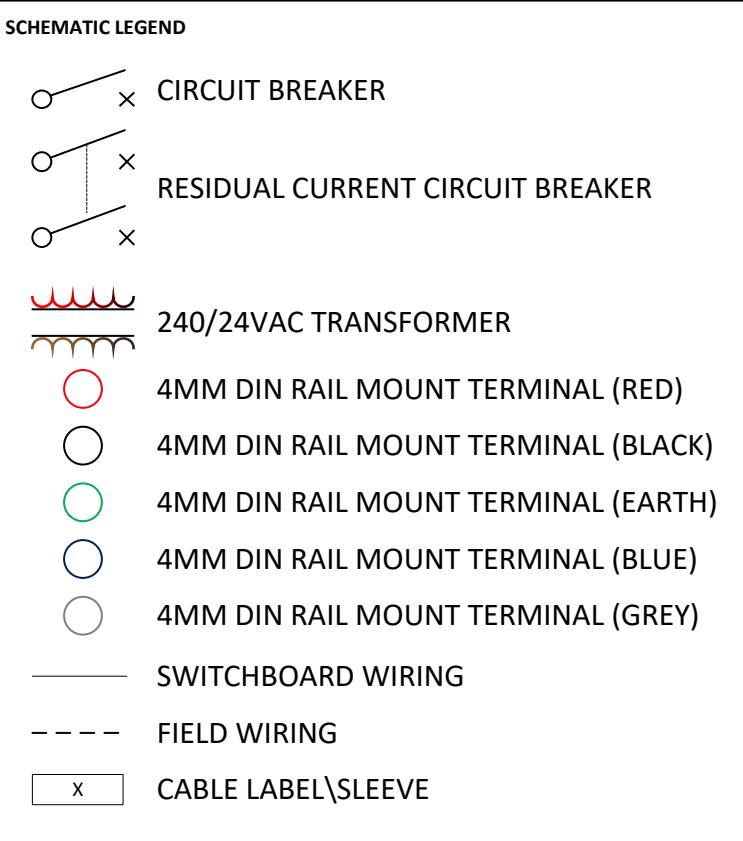
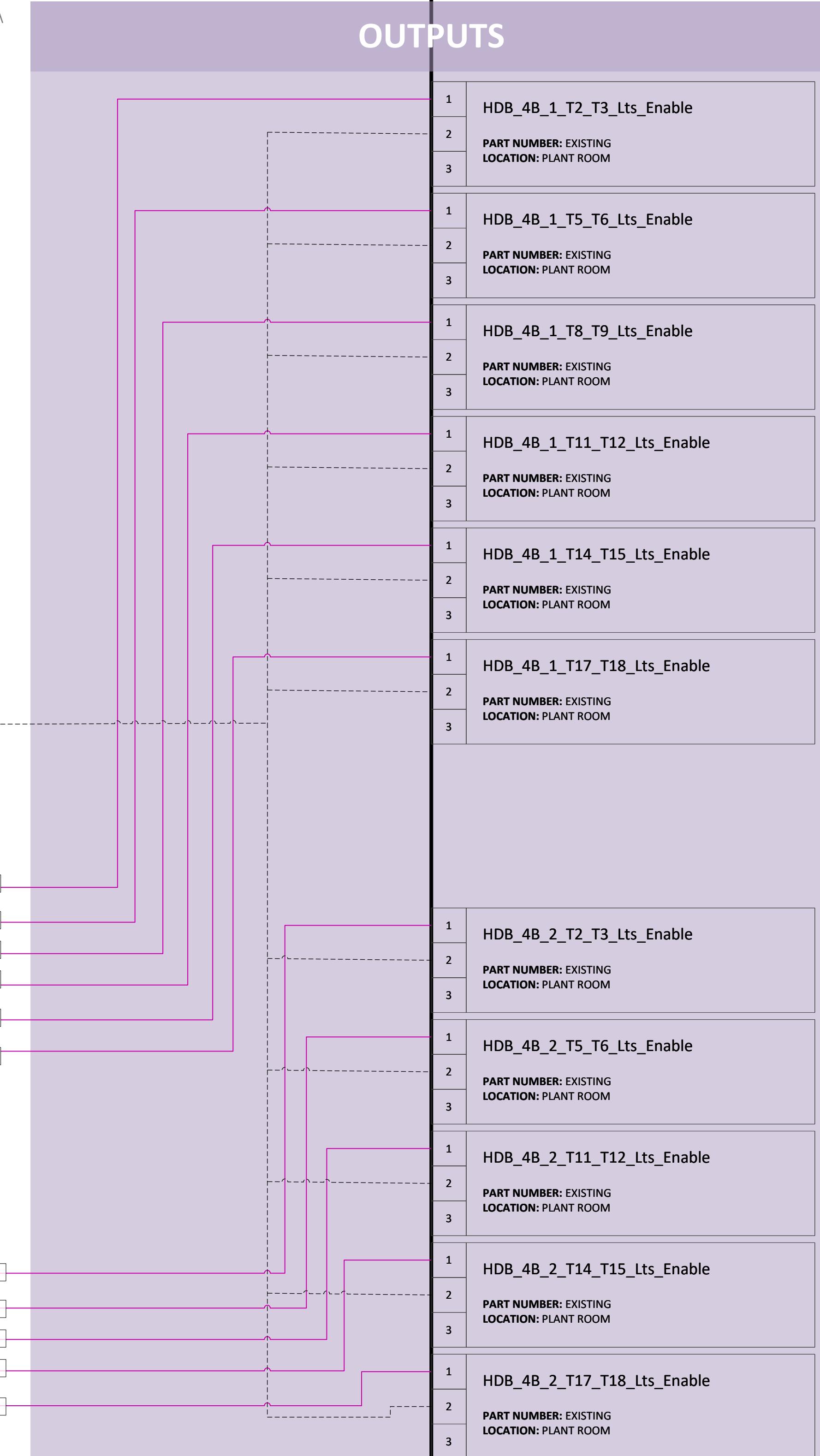


BOARD



FIELD

OUTPUTS



| WIRING LEGEND | | |
|---------------|-----------|----------|
| FUNCTION | CABLE | TERMINAL |
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

| | | | |
|------------------------|------------------|-------|------------|
| FC | For Construction | MZ | 20/06/2025 |
| REV | DESCRIPTION | DRAWN | DATE |
| STATUS AS BUILT | | | |
| CLIENT | | | |



PROJECT TITLE
Rhodes Waterside – EMS & BMS Upgrade
Rhodes

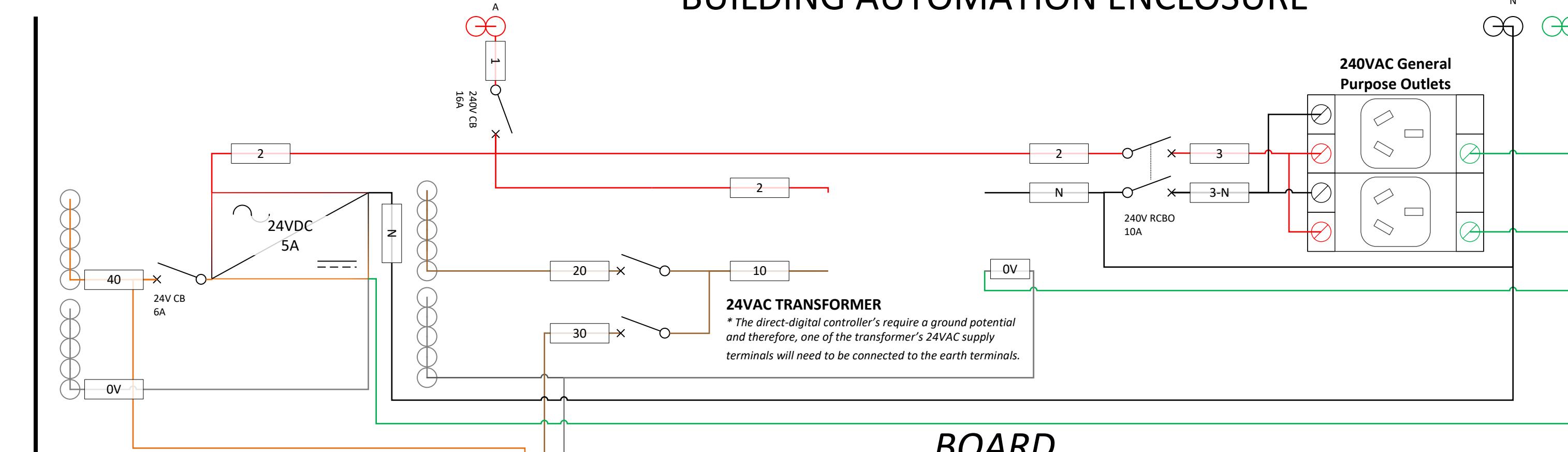
PROJECT NUMBER
501081
DRAWING TITLE
HDB_4B
WIRING DIAGRAM

COMPANY
VAE GROUP SMARTER HVAC SOLUTIONS Built in certainty
LEVEL 1/189 KENT STREET, SYDNEY NSW 2000
1300 VAE VAE
VAEGROUP.COM.AU
DRAWN MZ
CHECKED AF
DOCUMENT SIZE A1
REVISION FC
CREATED 20/06/2025
PAGE NTS
31 OF 47
DRAWING NUMBER VAE-501081-BMS-MASTER-DOCUMENT-31

BUILDING AUTOMATION ENCLOSURE

FIELD

INPUTS

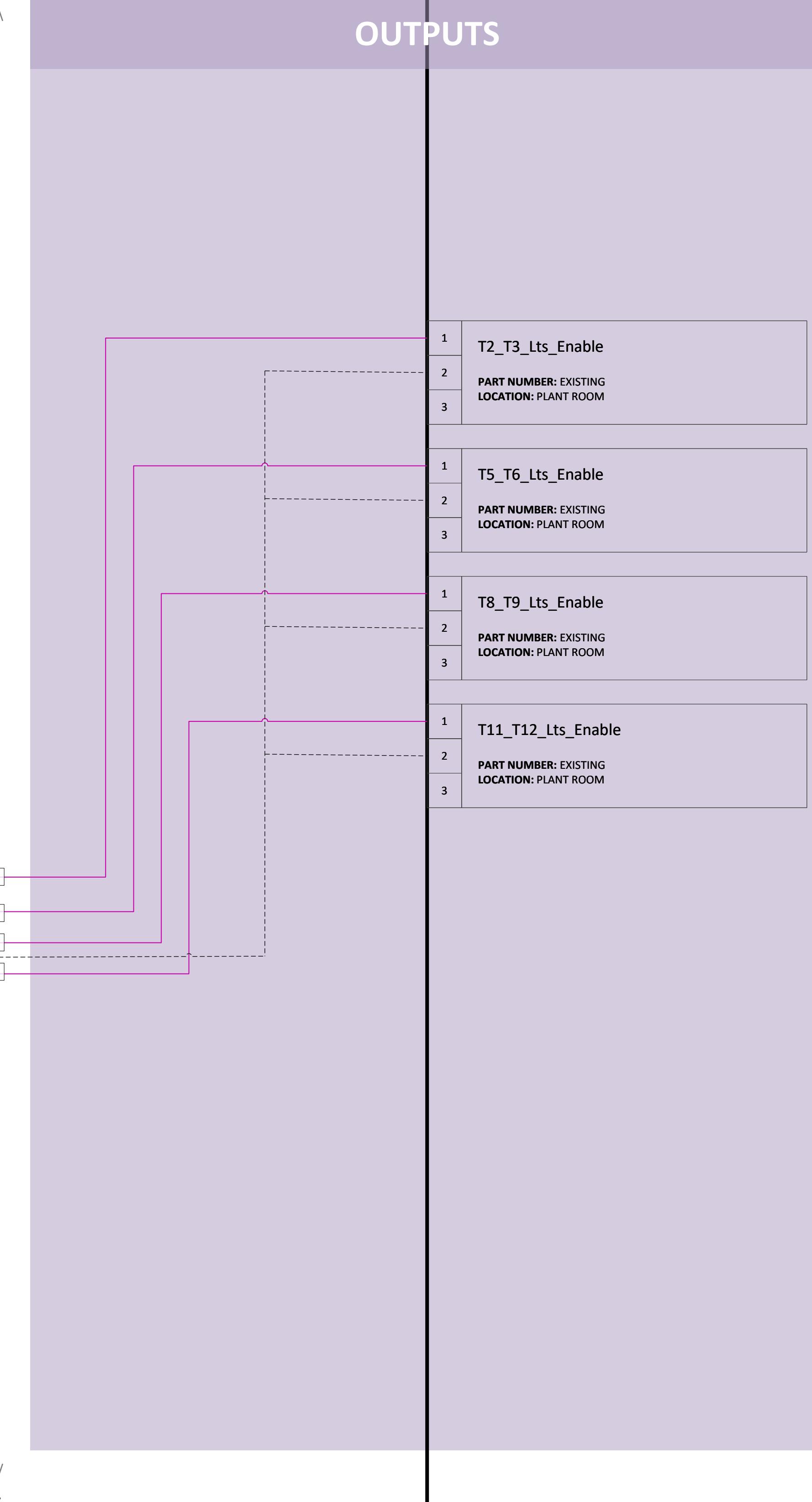


BOARD



FIELD

OUTPUTS



| SCHEMATIC LEGEND | | |
|------------------|-------------------------------------|--|
| | CIRCUIT BREAKER | |
| | RESIDUAL CURRENT CIRCUIT BREAKER | |
| | 240/24VAC TRANSFORMER | |
| | 4MM DIN RAIL MOUNT TERMINAL (RED) | |
| | 4MM DIN RAIL MOUNT TERMINAL (BLACK) | |
| | 4MM DIN RAIL MOUNT TERMINAL (EARTH) | |
| | 4MM DIN RAIL MOUNT TERMINAL (BLUE) | |
| | 4MM DIN RAIL MOUNT TERMINAL (GREY) | |
| | SWITCHBOARD WIRING | |
| | FIELD WIRING | |
| | CABLE LABEL\ SLEEVE | |

| WIRING LEGEND | | |
|---------------|-----------|----------|
| FUNCTION | CABLE | TERMINAL |
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

| | | |
|------------|-----------|----------|
| FUNCTION | CABLE | TERMINAL |
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

PROJECT TITLE
Rhodes Waterside – EMS & BMS Upgrade
Rhodes

PROJECT NUMBER 501081

DRAWING TITLE HDB_5A
WIRING DIAGRAM

COMPANY VAE GROUP SMARTER HVAC SOLUTIONS
Built in certainty

LEVEL 1/189 KENT STREET, SYDNEY NSW 2000
1300 VAE VAE
VAEGROUP.COM.AU

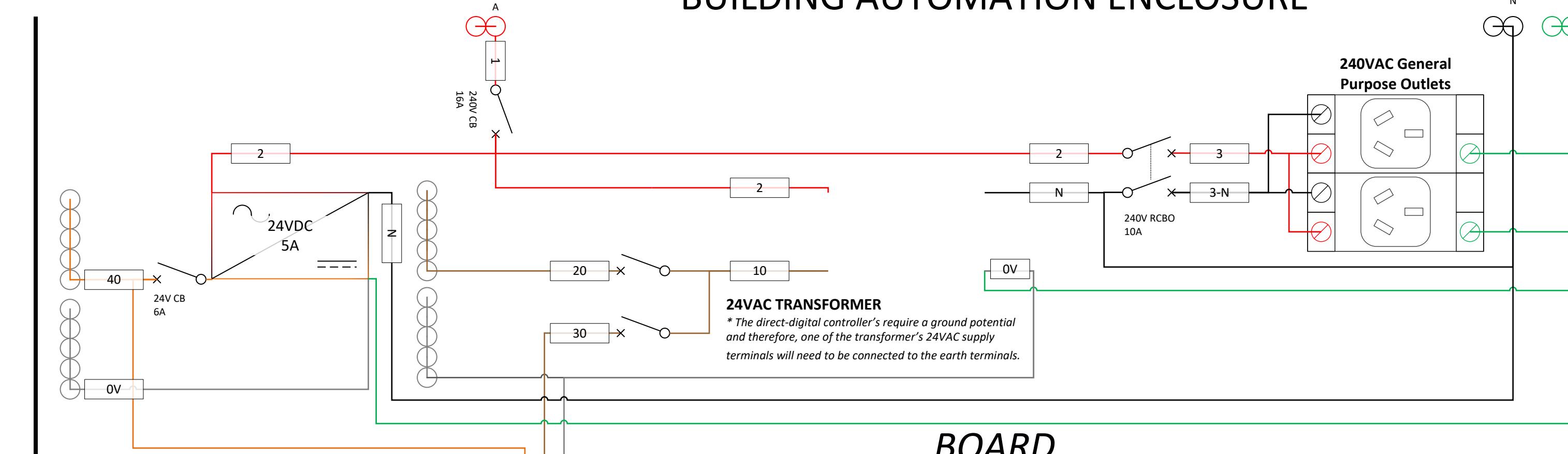
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| CHECKED | AF | FC | 20/06/2025 |
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DOCUMENT-32

BUILDING AUTOMATION ENCLOSURE

FIELD

INPUTS

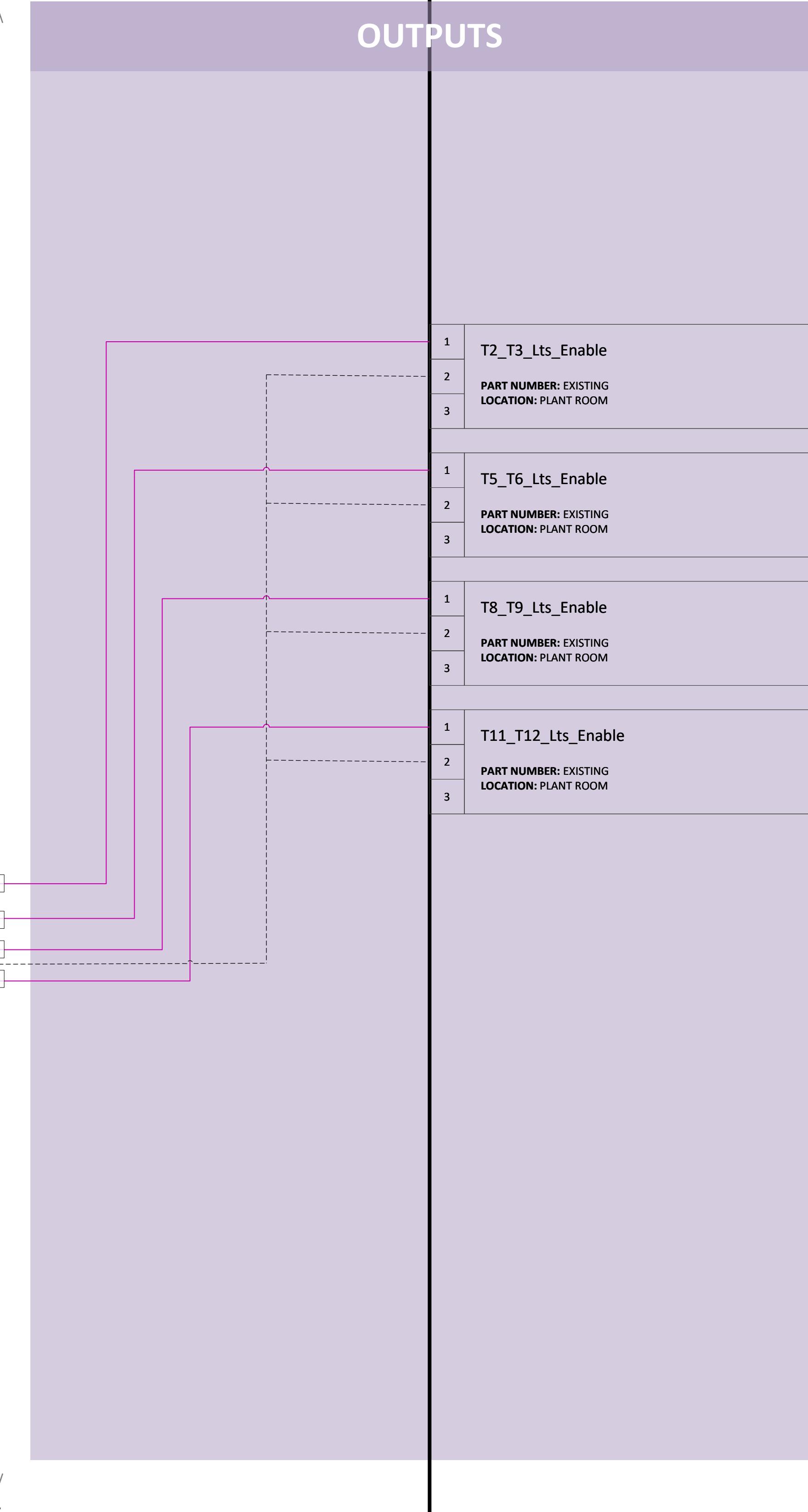


BOARD



FIELD

OUTPUTS



| SCHEMATIC LEGEND | | |
|------------------|-------------------------------------|--|
| | CIRCUIT BREAKER | |
| | RESIDUAL CURRENT CIRCUIT BREAKER | |
| | 240/24VAC TRANSFORMER | |
| | 4MM DIN RAIL MOUNT TERMINAL (RED) | |
| | 4MM DIN RAIL MOUNT TERMINAL (BLACK) | |
| | 4MM DIN RAIL MOUNT TERMINAL (EARTH) | |
| | 4MM DIN RAIL MOUNT TERMINAL (BLUE) | |
| | 4MM DIN RAIL MOUNT TERMINAL (GREY) | |
| | SWITCHBOARD WIRING | |
| | FIELD WIRING | |
| | CABLE LABEL\SLEEVE | |

| WIRING LEGEND | | |
|---------------|-----------|----------|
| FUNCTION | CABLE | TERMINAL |
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

| | | |
|------------|-----------|----------|
| FUNCTION | CABLE | TERMINAL |
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |



PROJECT TITLE
Rhodes Waterside – EMS & BMS Upgrade
Rhodes

PROJECT NUMBER
501081
DRAWING TITLE
HDB_6A
WIRING DIAGRAM

COMPANY
VAE GROUP SMARTER HVAC SOLUTIONS
Built in certainty
LEVEL 1/189 KENT STREET, SYDNEY NSW 2000
1300 VAE VAE
VAEGROUP.COM.AU

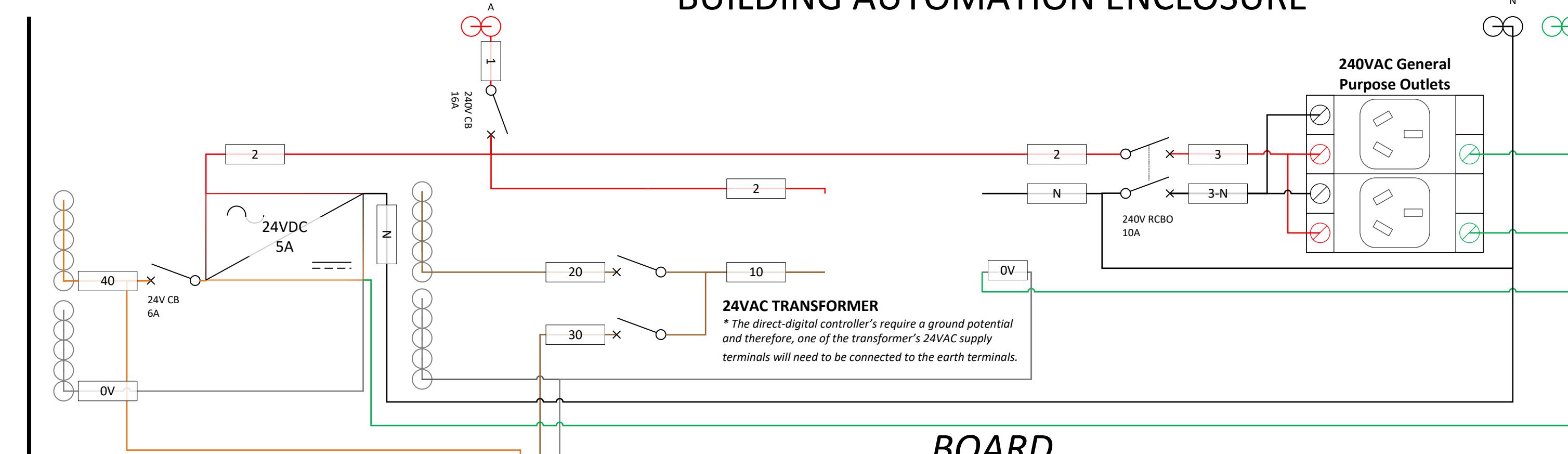
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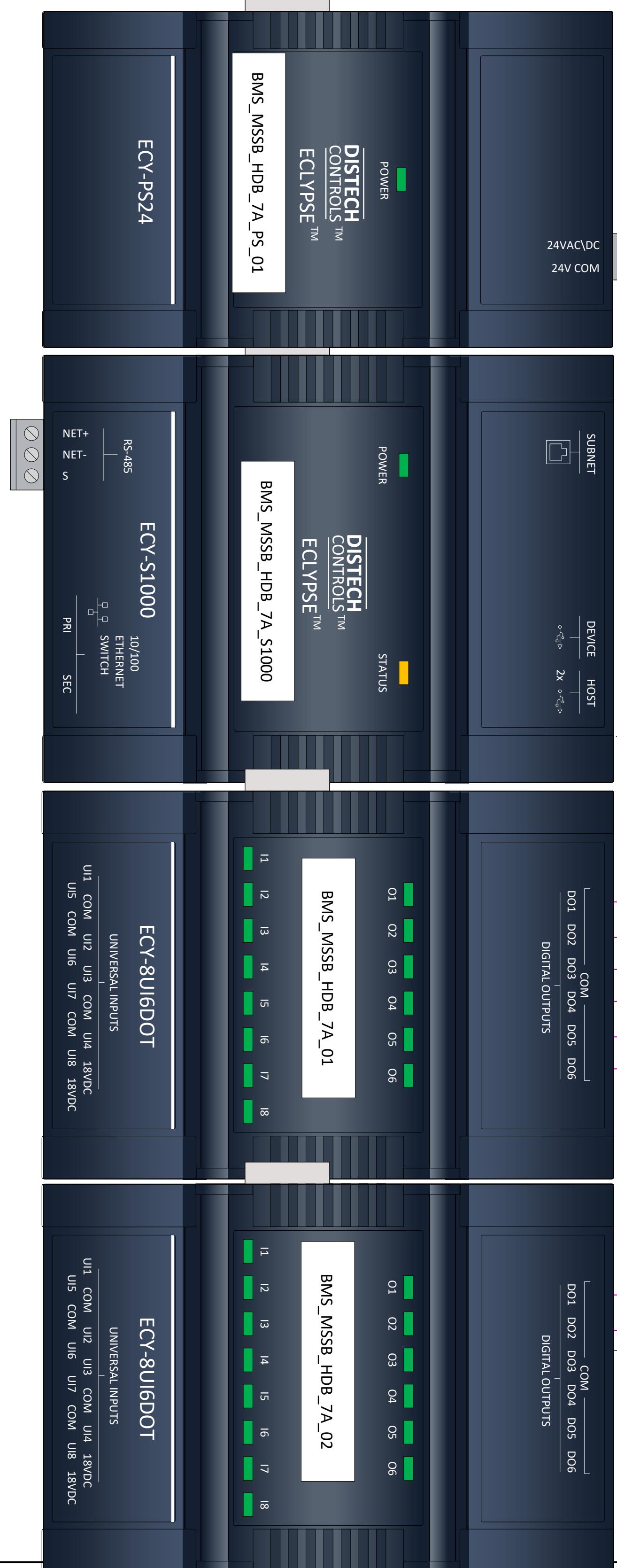
BUILDING AUTOMATION ENCLOSURE

FIELD

INPUTS

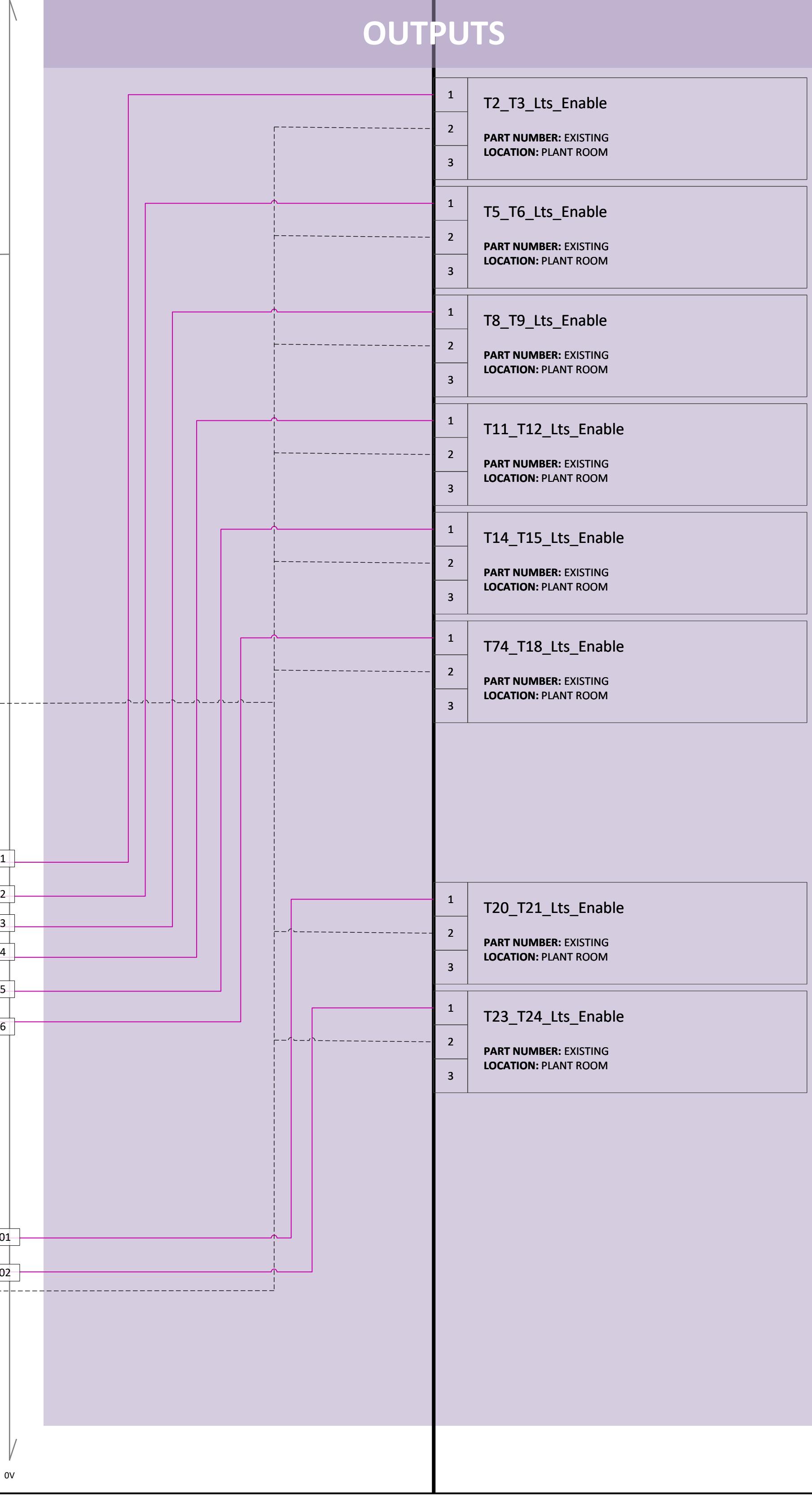


BOARD



FIELD

OUTPUTS



| SCHEMATIC LEGEND | | |
|------------------|-------------------------------------|--|
| | CIRCUIT BREAKER | |
| | RESIDUAL CURRENT CIRCUIT BREAKER | |
| | 240/24VAC TRANSFORMER | |
| | 4MM DIN RAIL MOUNT TERMINAL (RED) | |
| | 4MM DIN RAIL MOUNT TERMINAL (BLACK) | |
| | 4MM DIN RAIL MOUNT TERMINAL (EARTH) | |
| | 4MM DIN RAIL MOUNT TERMINAL (BLUE) | |
| | 4MM DIN RAIL MOUNT TERMINAL (GREY) | |
| | SWITCHBOARD WIRING | |
| | FIELD WIRING | |
| | CABLE LABEL\ SLEEVE | |

| WIRING LEGEND | | |
|---------------|-----------|----------|
| FUNCTION | CABLE | TERMINAL |
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

| | | | |
|-----------------|------------------|-------|------------|
| FC | For Construction | MZ | 20/06/2025 |
| REV | DESCRIPTION | DRAWN | DATE |
| STATUS | | | |
| AS BUILT | | | |
| CLIENT | | | |



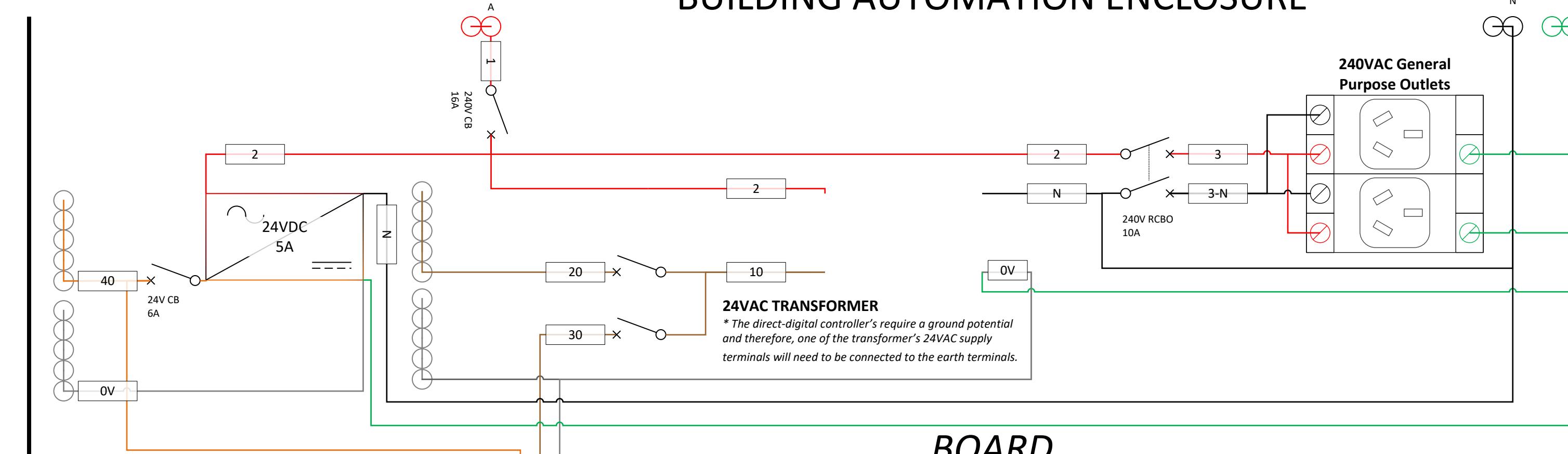
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|-----------------------|--------------------------------------|
| PROJECT TITLE | Rhodes Waterside – EMS & BMS Upgrade |
| | Rhodes |
| PROJECT NUMBER | |
| 501081 | |
| DRAWING TITLE | |
| HDB_7A | |
| WIRING DIAGRAM | |

| | | |
|-----------------------------------|-------|--|
| COMPANY | | SMARTER HVAC SOLUTIONS |
| | | Built in certainty |
| | | LEVEL 1/189 KENT STREET, SYDNEY NSW 2000 |
| | | 1300 VAE VAE |
| | | VAEGROUP.COM.AU |
| DRAWN | MZ | REVISION |
| CHECKED | AF | FC |
| DOCUMENT SIZE | SCALE | CREATED |
| A1 | NTS | 20/06/2025 |
| DRAWING NUMBER | | 34 OF 47 |
| VAE-501081-BMS-MASTER-DOCUMENT-34 | | |

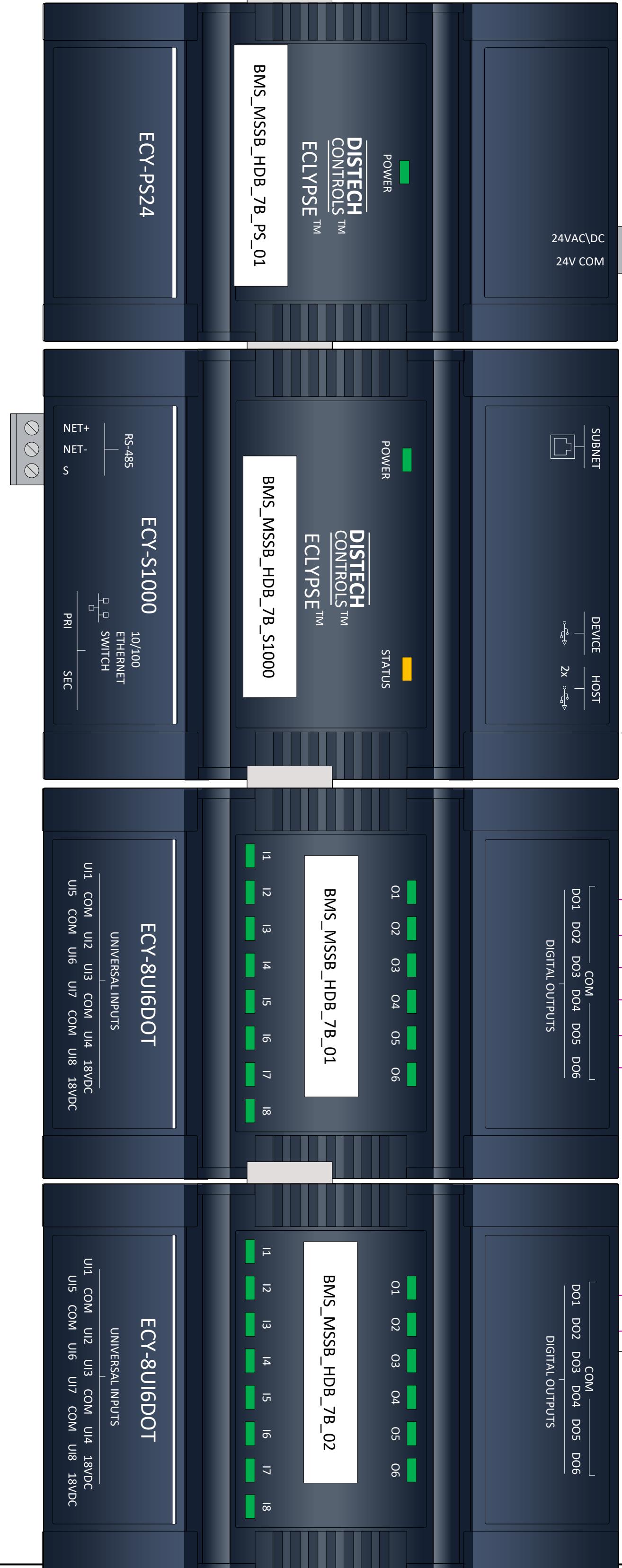
BUILDING AUTOMATION ENCLOSURE

FIELD

INPUTS

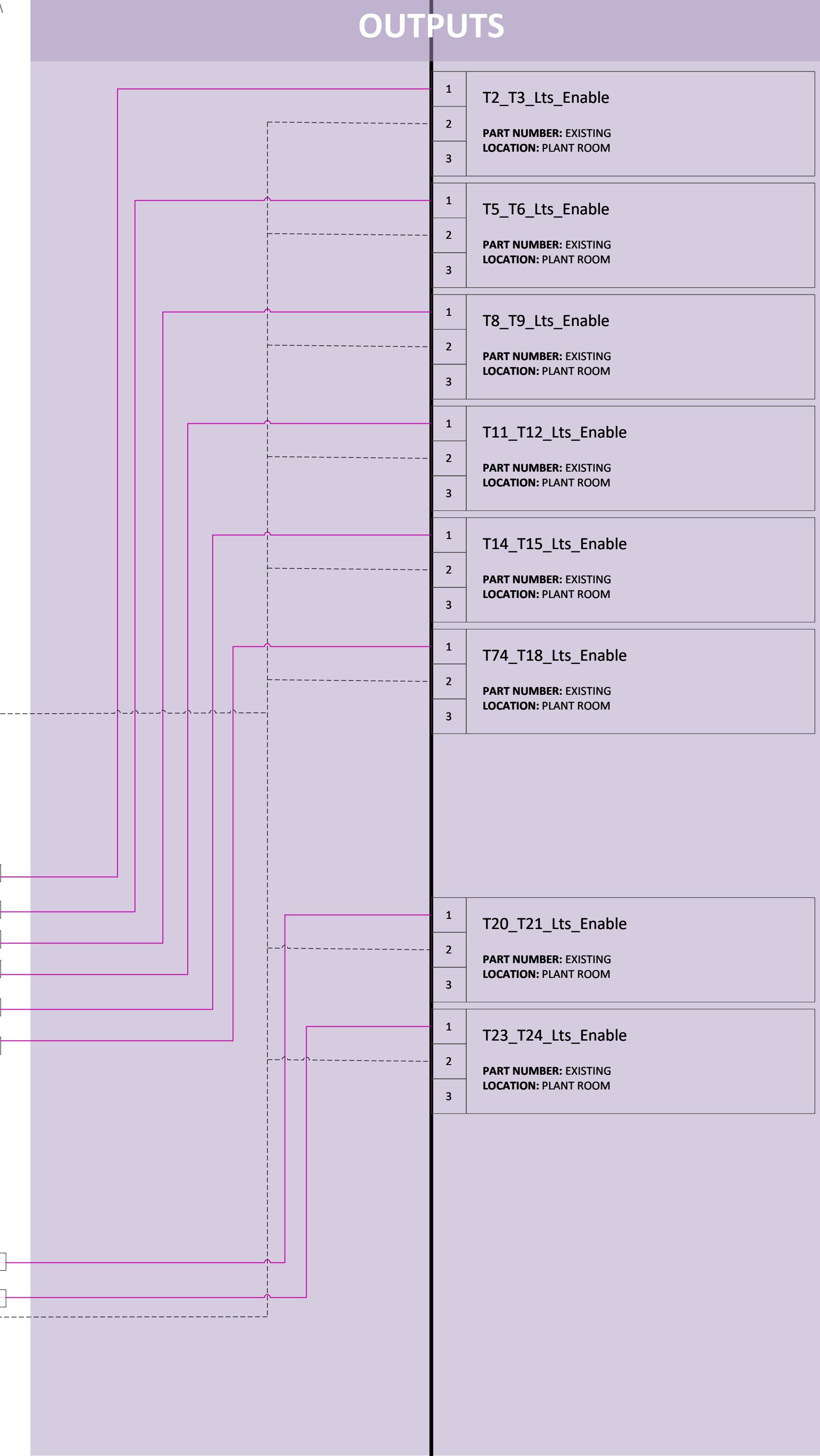


BOARD



FIELD

OUTPUTS



| SCHEMATIC LEGEND | | |
|------------------|-------------------------------------|--|
| | CIRCUIT BREAKER | |
| | RESIDUAL CURRENT CIRCUIT BREAKER | |
| | 240/24VAC TRANSFORMER | |
| | 4MM DIN RAIL MOUNT TERMINAL (RED) | |
| | 4MM DIN RAIL MOUNT TERMINAL (BLACK) | |
| | 4MM DIN RAIL MOUNT TERMINAL (EARTH) | |
| | 4MM DIN RAIL MOUNT TERMINAL (BLUE) | |
| | 4MM DIN RAIL MOUNT TERMINAL (GREY) | |
| | SWITCHBOARD WIRING | |
| | FIELD WIRING | |
| | CABLE LABEL\ SLEEVE | |

| WIRING LEGEND | | |
|---------------|-----------|----------|
| FUNCTION | CABLE | TERMINAL |
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

| | | | |
|-----------------|------------------|-------|------------|
| FC | For Construction | MZ | 20/06/2025 |
| REV | DESCRIPTION | DRAWN | DATE |
| STATUS | | | |
| AS BUILT | | | |
| CLIENT | | | |



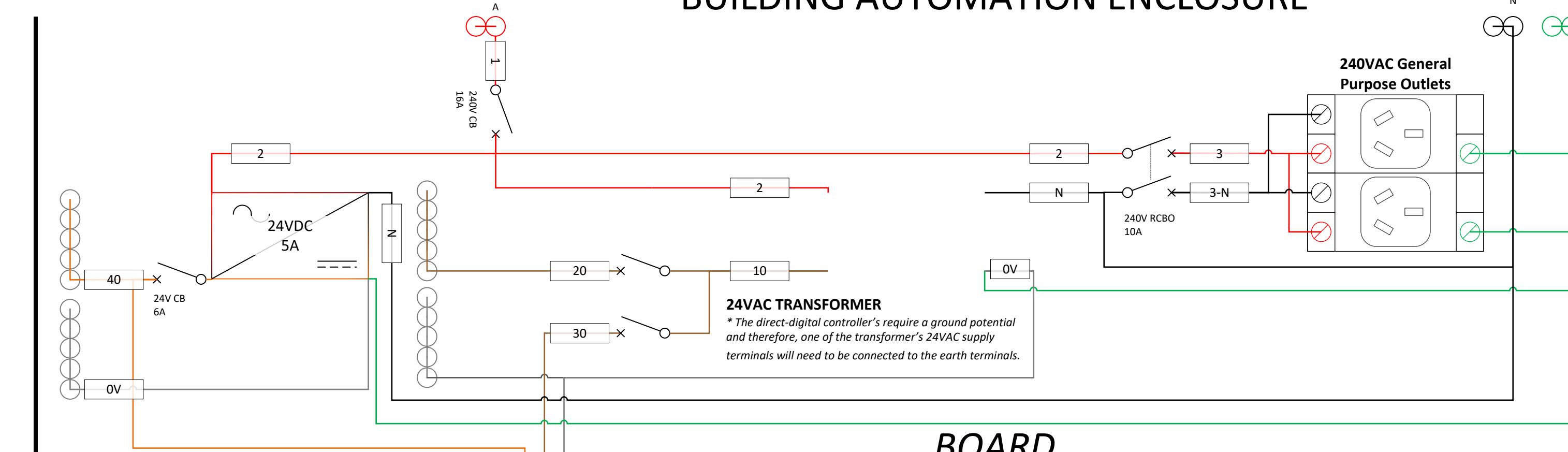
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|----------------|--------------------------------------|
| PROJECT TITLE | Rhodes Waterside – EMS & BMS Upgrade |
| | Rhodes |
| PROJECT NUMBER | 501081 |
| DRAWING TITLE | HDB_7B |
| | WIRING DIAGRAM |

| | | |
|----------------|-----------------------------------|--|
| COMPANY | | SMARTER HVAC SOLUTIONS |
| | | Built in certainty |
| | | LEVEL 1/189 KENT STREET, SYDNEY NSW 2000 |
| | | 1300 VAE VAE |
| | | VAEGROUP.COM.AU |
| DRAWN | MZ | REVISION |
| CHECKED | AF | FC |
| DOCUMENT SIZE | SCALE | CREATED |
| | NTS | 20/06/2025 |
| DOCUMENT SIZE | PAGE | 35 OF 47 |
| DRAWING NUMBER | VAE-501081-BMS-MASTER-DOCUMENT-35 | |

BUILDING AUTOMATION ENCLOSURE

FIELD

INPUTS

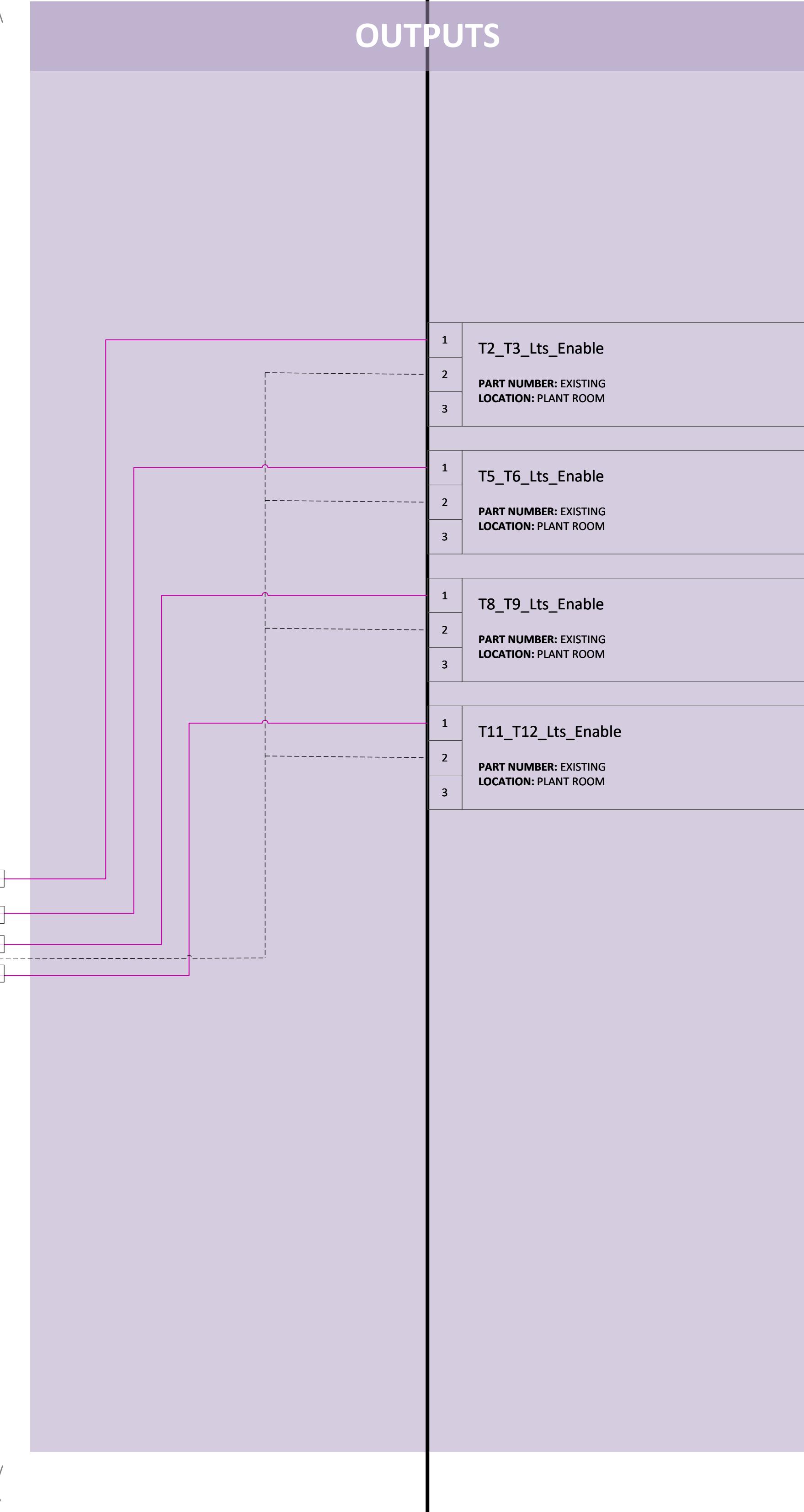


BOARD



FIELD

OUTPUTS

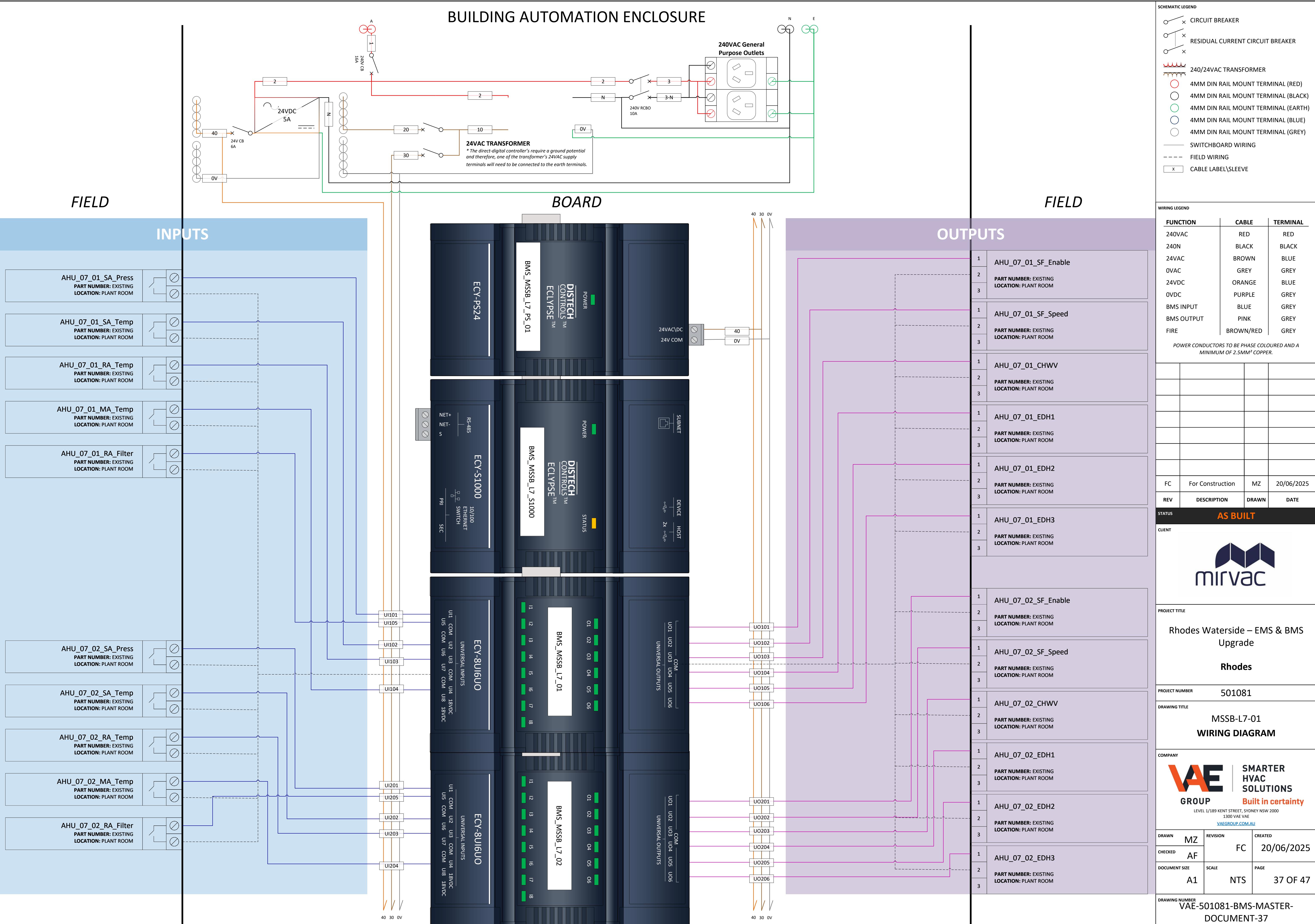


| SCHEMATIC LEGEND | | |
|------------------|-------------------------------------|--|
| | CIRCUIT BREAKER | |
| | RESIDUAL CURRENT CIRCUIT BREAKER | |
| | 240/24VAC TRANSFORMER | |
| | 4MM DIN RAIL MOUNT TERMINAL (RED) | |
| | 4MM DIN RAIL MOUNT TERMINAL (BLACK) | |
| | 4MM DIN RAIL MOUNT TERMINAL (EARTH) | |
| | 4MM DIN RAIL MOUNT TERMINAL (BLUE) | |
| | 4MM DIN RAIL MOUNT TERMINAL (GREY) | |
| | SWITCHBOARD WIRING | |
| | FIELD WIRING | |
| | CABLE LABEL\ SLEEVE | |

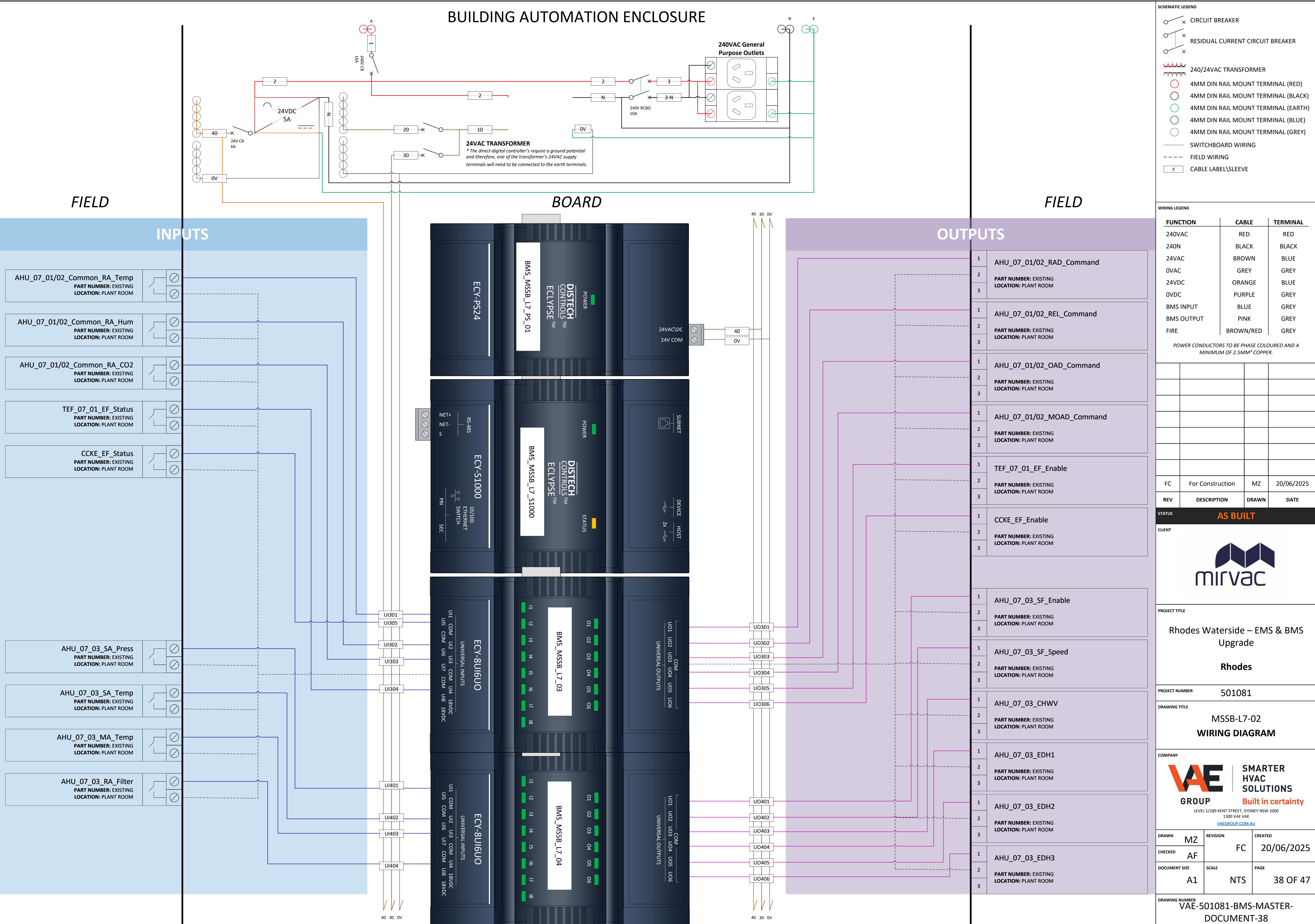
| WIRING LEGEND | | |
|---------------|-----------|----------|
| FUNCTION | CABLE | TERMINAL |
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

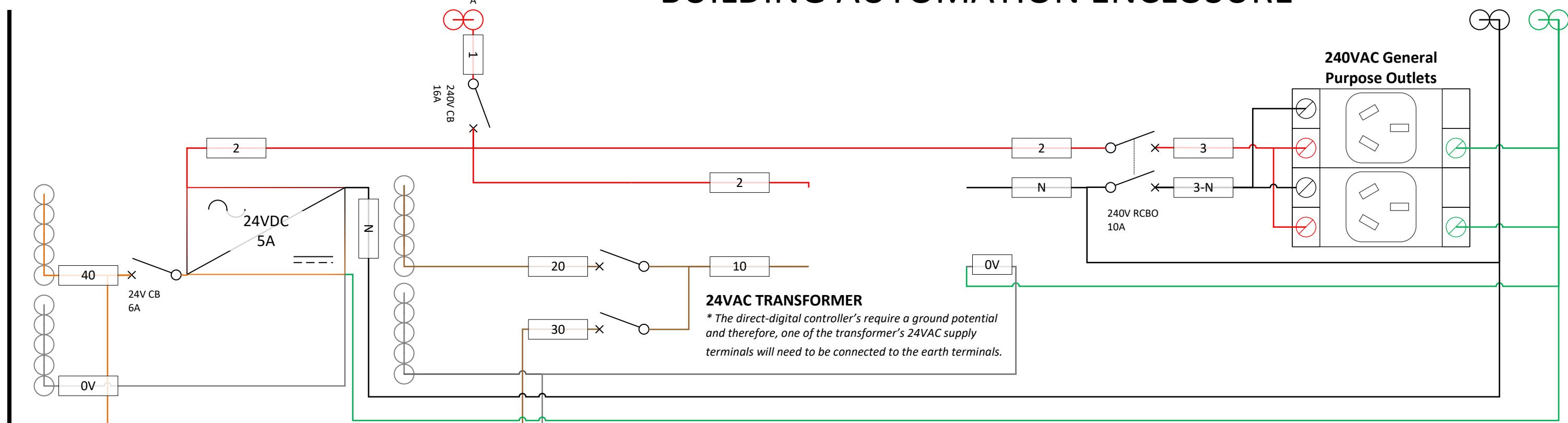
BUILDING AUTOMATION ENCLOSURE



BUILDING AUTOMATION ENCLOSURE



BUILDING AUTOMATION ENCLOSURE



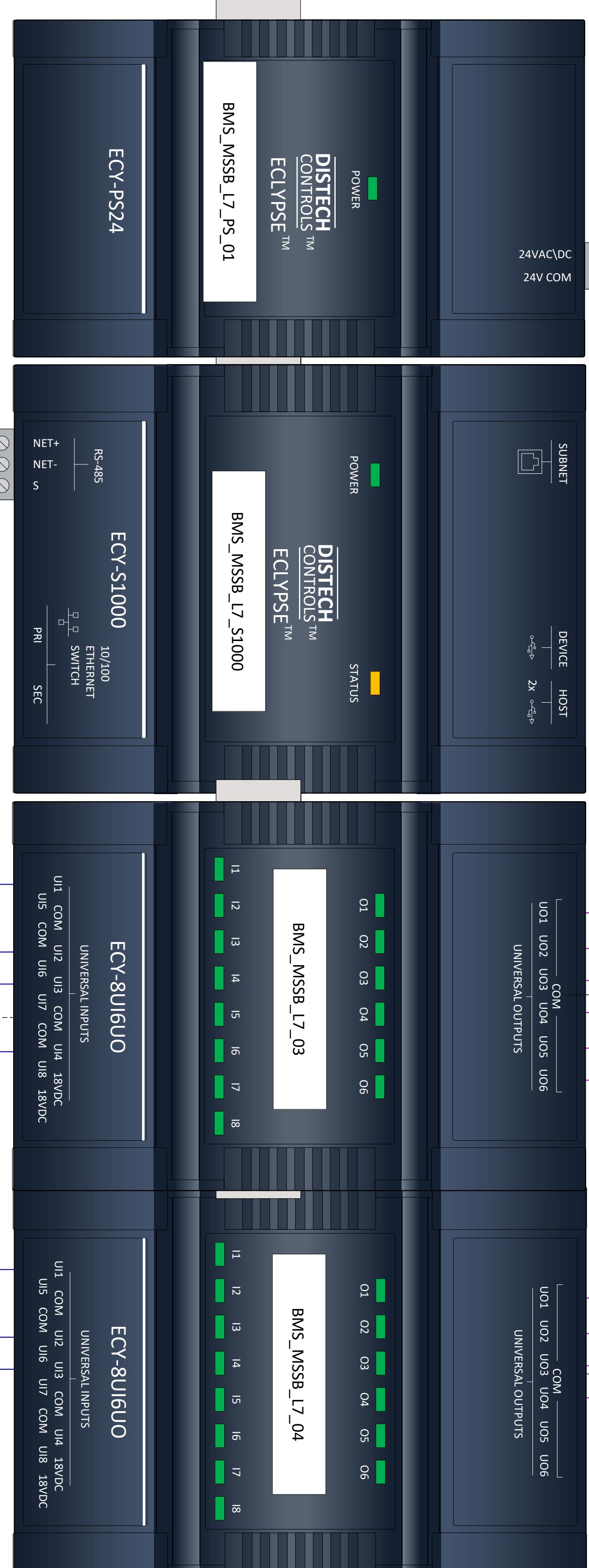
| SCHEMATIC LEGEND | |
|------------------|-------------------------------------|
| | CIRCUIT BREAKER |
| | RESIDUAL CURRENT CIRCUIT BREAKER |
| | 240/24VAC TRANSFORMER |
| | 4MM DIN RAIL MOUNT TERMINAL (RED) |
| | 4MM DIN RAIL MOUNT TERMINAL (BLACK) |
| | 4MM DIN RAIL MOUNT TERMINAL (EARTH) |
| | 4MM DIN RAIL MOUNT TERMINAL (BLUE) |
| | 4MM DIN RAIL MOUNT TERMINAL (GREY) |
| | SWITCHBOARD WIRING |
| | FIELD WIRING |
| | CABLE LABEL\ SLEEVE |

FIELD

INPUTS

| |
|--|
| AHU_07_04_SA_Press PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| AHU_07_04_SA_Temp PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| AHU_07_04_MA_Temp PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| AHU_07_04_RA_Filter PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| AHU_07_03/04_Common_RA_Temp PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| AHU_07_03/04_Common_RA_Hum PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| AHU_07_03/04_Common_RA_CO2 PART NUMBER: EXISTING LOCATION: PLANT ROOM |

BOARD



FIELD

OUTPUTS

| |
|--|
| AHU_07_04_SF_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| AHU_07_04_Speed PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| AHU_07_04_CHWV PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| AHU_07_04_EDH1 PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| AHU_07_04_EDH2 PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| AHU_07_04_EDH3 PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| AHU_07_03/04_RAD_Command PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| AHU_07_03/04_REL_Command PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| AHU_07_03/04_OAD_Command PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| AHU_07_03/04_MOAD_Command PART NUMBER: EXISTING LOCATION: PLANT ROOM |

| FUNCTION | CABLE | TERMINAL |
|------------|-----------|----------|
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

| | | | |
|--------|------------------|-------|------------|
| FC | For Construction | MZ | 20/06/2025 |
| REV | DESCRIPTION | DRAWN | DATE |
| STATUS | AS BUILT | | |
| CLIENT | | | |

PROJECT TITLE
Rhodes Waterside – EMS & BMS Upgrade
Rhodes

PROJECT NUMBER
501081
DRAWING TITLE
MSSB-L7-03
WIRING DIAGRAM

COMPANY

SMARTER HVAC SOLUTIONS
Built in certainty

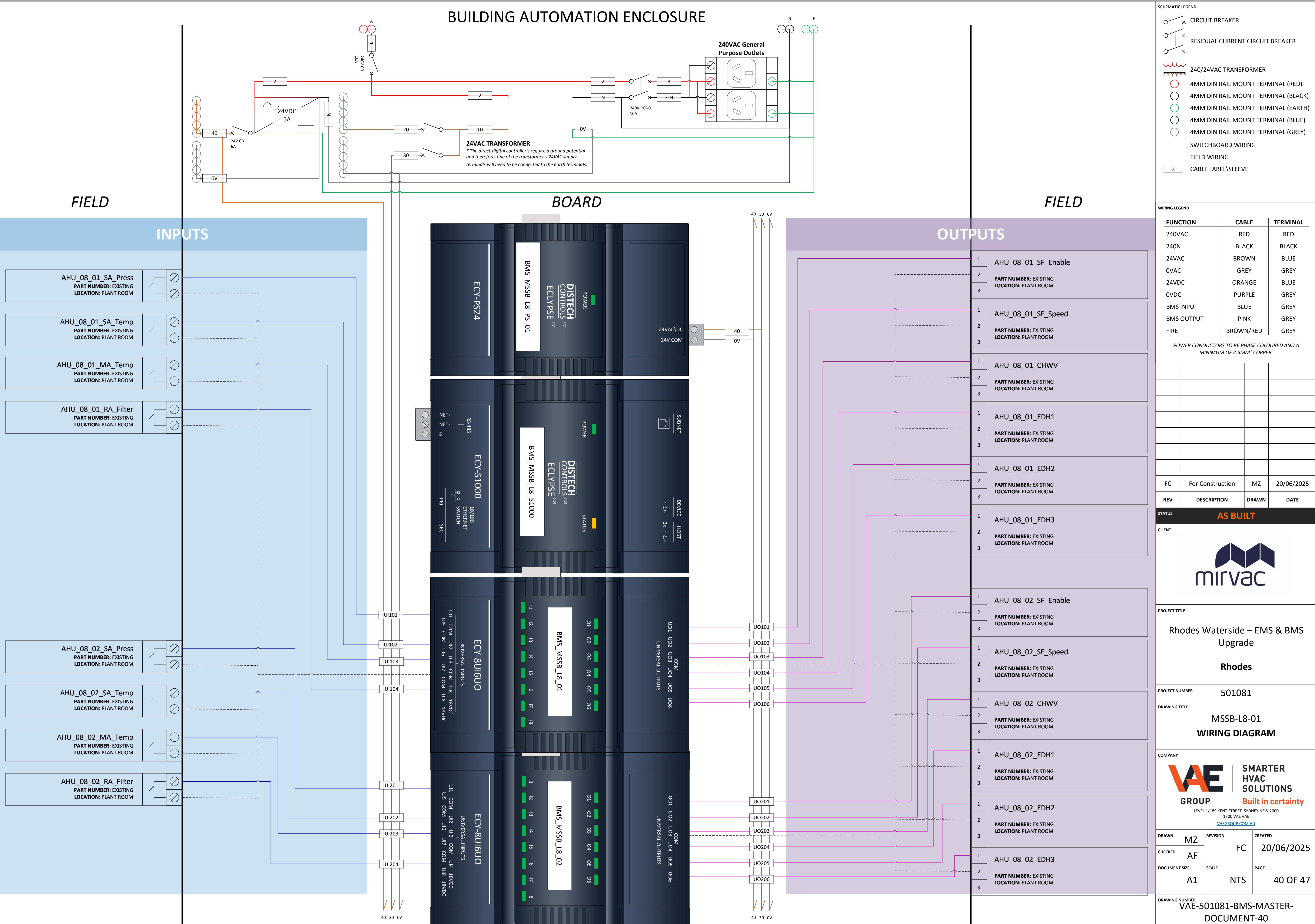
LEVEL 1/189 KENT STREET, SYDNEY NSW 2000
1300 VAE VAE
VAEGROUP.COM.AU

| DRAWN | MZ | REVISION | CREATED |
|---------|----|----------|------------|
| CHECKED | AF | FC | 20/06/2025 |

| DOCUMENT SIZE | SCALE | PAGE |
|---------------|-------|----------|
| A1 | NTS | 39 OF 47 |

DRAWING NUMBER
VAE-501081-BMS-MASTER-DOCUMENT-39

BUILDING AUTOMATION ENCLOSURE



BUILDING AUTOMATION ENCLOSURE

FIELD

INPUTS

| | |
|-----------------------------|-----------------------|
| AHU_08_01/02_Common_RA_Temp | PART NUMBER: EXISTING |
| LOCATION: PLANT ROOM | |
| AHU_08_01/02_Common_RA_Hum | PART NUMBER: EXISTING |
| LOCATION: PLANT ROOM | |
| AHU_08_01/02_Common_RA_CO2 | PART NUMBER: EXISTING |
| LOCATION: PLANT ROOM | |

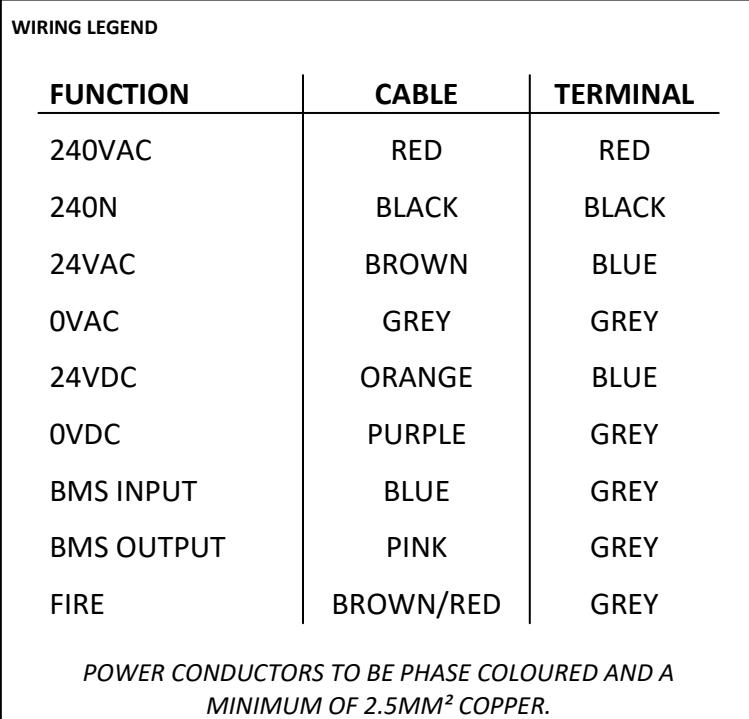
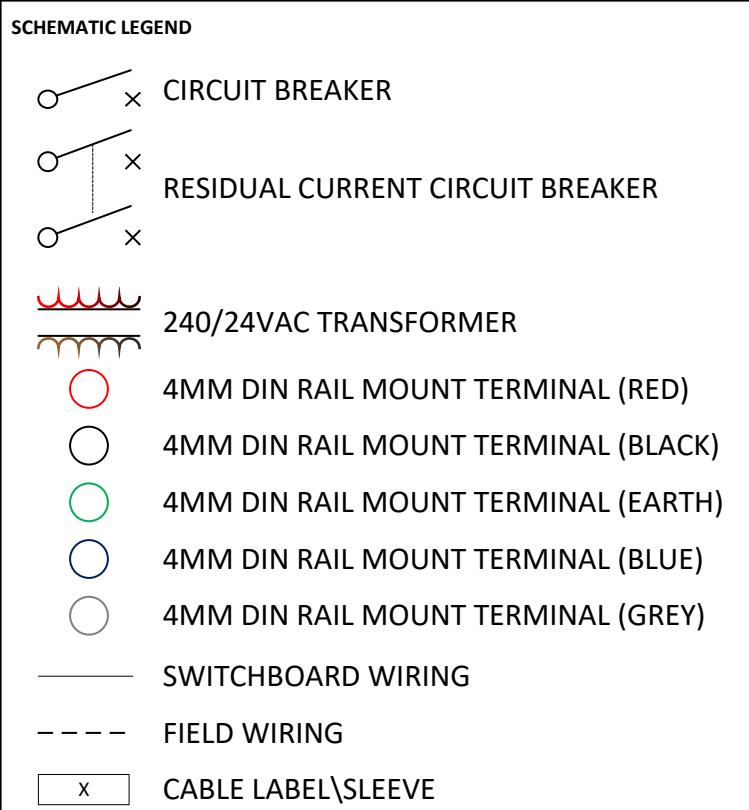
BOARD



FIELD

OUTPUTS

| | |
|---|---------------------------|
| 1 | AHU_08_01/02_RAD_Command |
| 2 | PART NUMBER: EXISTING |
| 3 | LOCATION: PLANT ROOM |
| 1 | AHU_08_01/02_REL_Command |
| 2 | PART NUMBER: EXISTING |
| 3 | LOCATION: PLANT ROOM |
| 1 | AHU_08_01/02_MOAD_Command |
| 2 | PART NUMBER: EXISTING |
| 3 | LOCATION: PLANT ROOM |



| | | | |
|------------------------|------------------|-------|------------|
| FC | For Construction | MZ | 20/06/2025 |
| REV | DESCRIPTION | DRAWN | DATE |
| STATUS AS BUILT | | | |
| CLIENT | | | |
| | | | |

PROJECT TITLE
Rhodes Waterside – EMS & BMS Upgrade
Rhodes

PROJECT NUMBER 501081

DRAWING TITLE MSSB-L8-02
WIRING DIAGRAM

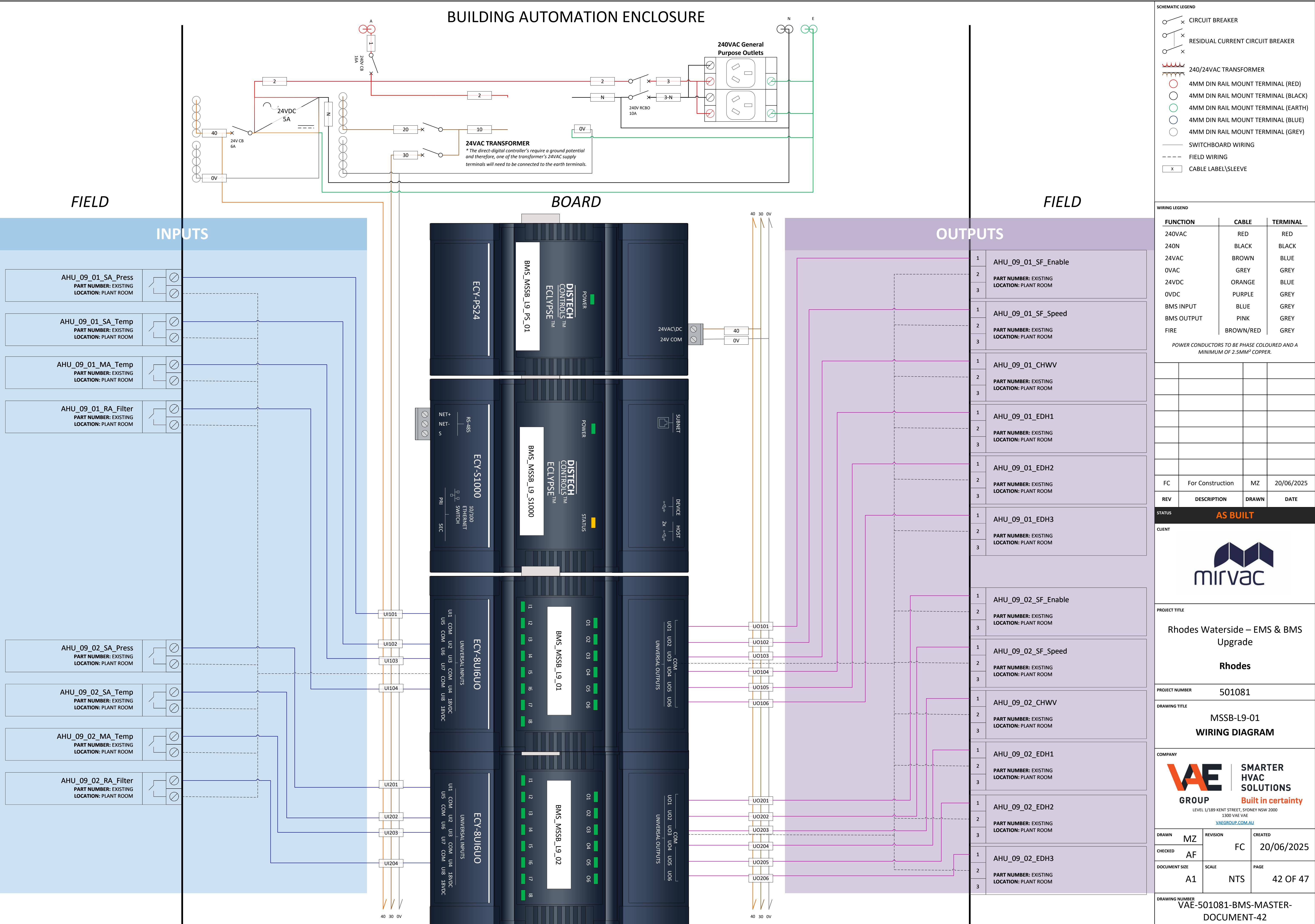
COMPANY SMARTER HVAC SOLUTIONS
Built in certainty

LEVEL 1/189 KENT STREET, SYDNEY NSW 2000
1300 VAE VAE
VAEGROUP.COM.AU

| | | |
|------------------|-------------|---------------|
| DRAWN MZ | REVISION FC | CREATED |
| CHECKED AF | | 20/06/2025 |
| DOCUMENT SIZE A1 | SCALE NTS | PAGE 41 OF 47 |

DRAWING NUMBER VAE-501081-BMS-MASTER-DOCUMENT-41

BUILDING AUTOMATION ENCLOSURE



BUILDING AUTOMATION ENCLOSURE

FIELD

INPUTS

| | |
|-----------------------------|-----------------------|
| AHU_09_01/02_Common_RA_Temp | PART NUMBER: EXISTING |
| LOCATION: PLANT ROOM | |
| AHU_09_01/02_Common_RA_Hum | PART NUMBER: EXISTING |
| LOCATION: PLANT ROOM | |
| AHU_09_01/02_Common_RA_CO2 | PART NUMBER: EXISTING |
| LOCATION: PLANT ROOM | |

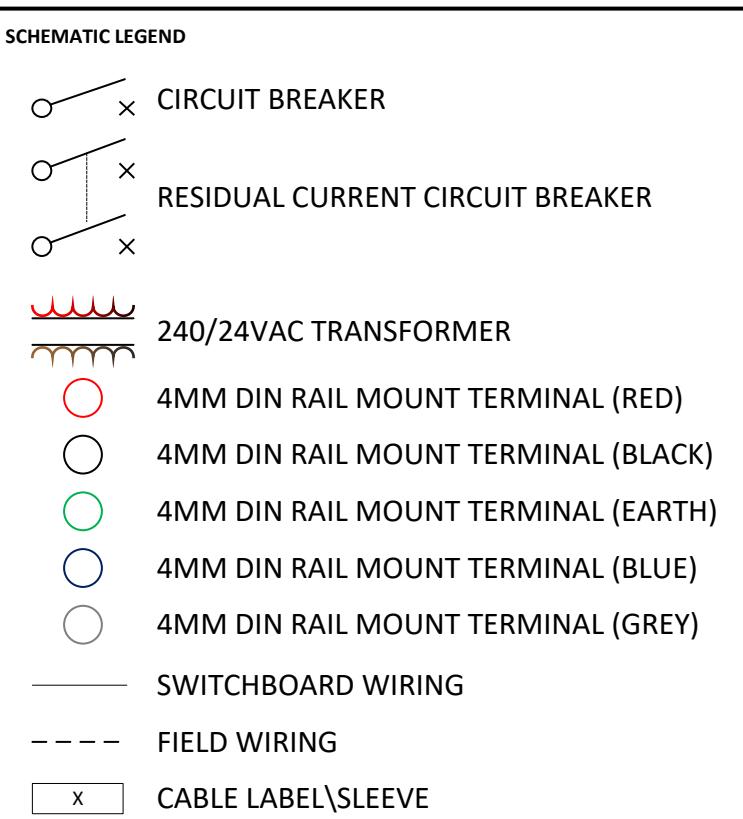
BOARD



FIELD

OUTPUTS

| | |
|--------------------------|-----------------------|
| AHU_09_01/02_RAD_Command | PART NUMBER: EXISTING |
| LOCATION: PLANT ROOM | |
| AHU_09_01/02_REL_Command | PART NUMBER: EXISTING |
| LOCATION: PLANT ROOM | |
| AHU_09_01/02_OAD_Command | PART NUMBER: EXISTING |
| LOCATION: PLANT ROOM | |



WIRING LEGEND

| FUNCTION | CABLE | TERMINAL |
|------------|-----------|----------|
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

FC For Construction MZ 20/06/2025
REV DESCRIPTION DRAWN DATE

STATUS AS BUILT



PROJECT TITLE
Rhodes Waterside – EMS & BMS Upgrade
Rhodes

PROJECT NUMBER 501081

DRAWING TITLE
MSSB-L9-02
WIRING DIAGRAM

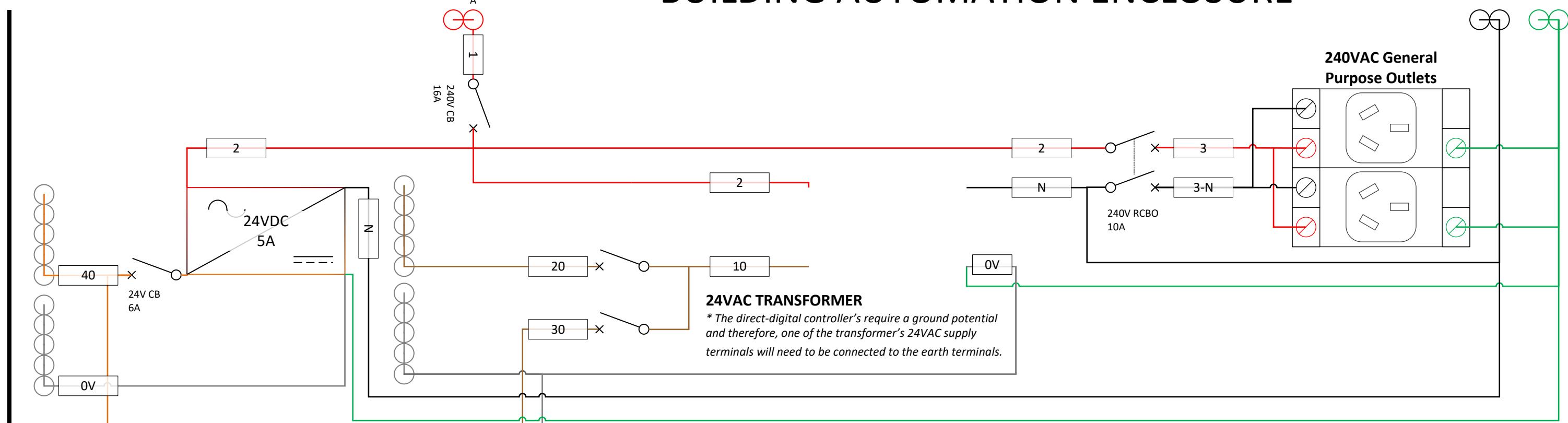
COMPANY
VAE GROUP SMARTER HVAC SOLUTIONS
Built in certainty

LEVEL 1/189 KENT STREET, SYDNEY NSW 2000
1300 VAE VAE
VAEGROUP.COM.AU

| | | |
|------------------|-------------|---------------|
| DRAWN MZ | REVISION FC | CREATED |
| CHECKED AF | | 20/06/2025 |
| DOCUMENT SIZE A1 | SCALE NTS | PAGE 43 OF 47 |

DRAWING NUMBER VAE-501081-BMS-MASTER-DOCUMENT-43

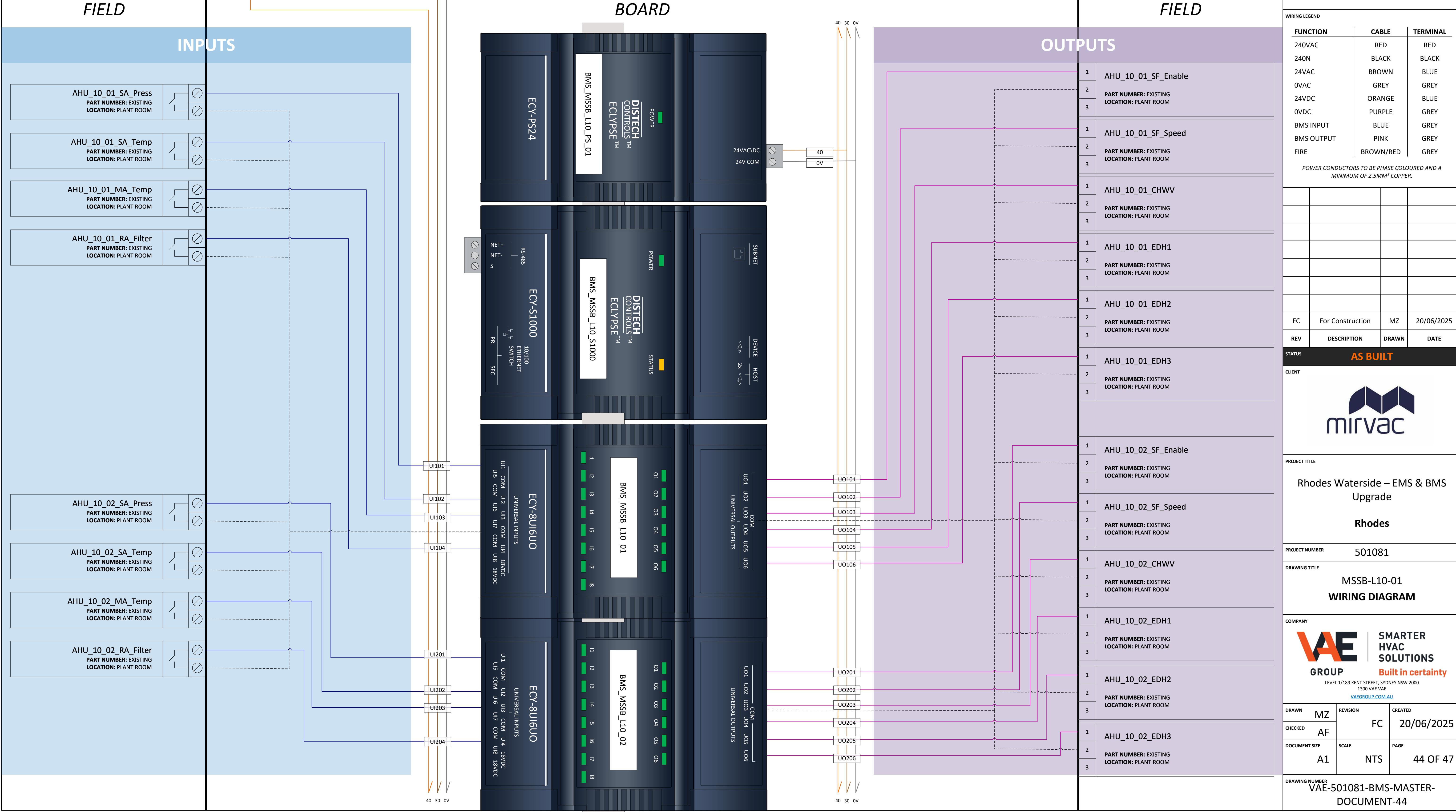
BUILDING AUTOMATION ENCLOSURE



| SCHEMATIC LEGEND | |
|------------------|-------------------------------------|
| | CIRCUIT BREAKER |
| | RESIDUAL CURRENT CIRCUIT BREAKER |
| | 240/24VAC TRANSFORMER |
| | 4MM DIN RAIL MOUNT TERMINAL (RED) |
| | 4MM DIN RAIL MOUNT TERMINAL (BLACK) |
| | 4MM DIN RAIL MOUNT TERMINAL (EARTH) |
| | 4MM DIN RAIL MOUNT TERMINAL (BLUE) |
| | 4MM DIN RAIL MOUNT TERMINAL (GREY) |
| | SWITCHBOARD WIRING |
| | FIELD WIRING |
| | CABLE LABEL\ SLEEVE |

| WIRING LEGEND | | |
|---------------|-----------|----------|
| FUNCTION | CABLE | TERMINAL |
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.



BUILDING AUTOMATION ENCLOSURE

FIELD

INPUTS

AHU_10_01/02_Common_RA_Temp
PART NUMBER: EXISTING
LOCATION: PLANT ROOM

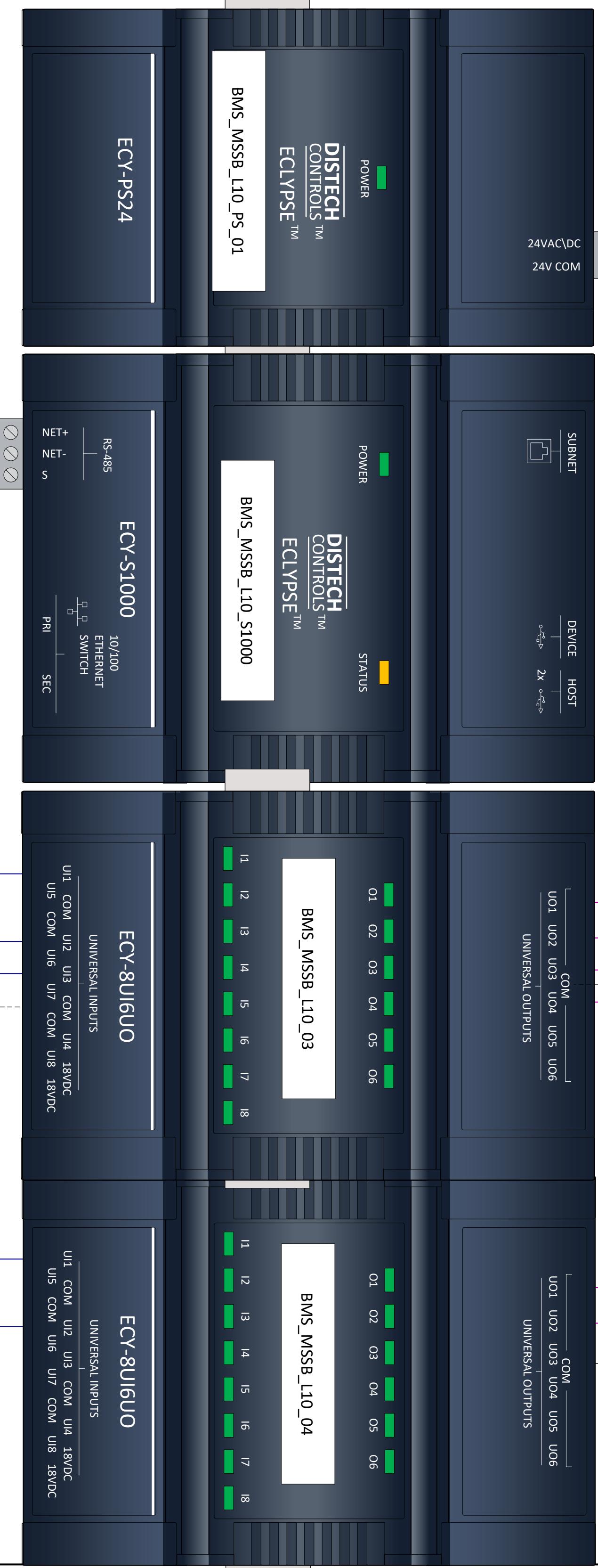
AHU_10_01/02_Common_RA_Hum
PART NUMBER: EXISTING
LOCATION: PLANT ROOM

AHU_10_01/02_Common_RA_CO2
PART NUMBER: EXISTING
LOCATION: PLANT ROOM

TEF_10_01_EF_Status
PART NUMBER: EXISTING
LOCATION: PLANT ROOM

OAF_10_01_SF_Status
PART NUMBER: EXISTING
LOCATION: PLANT ROOM

BOARD



FIELD

OUTPUTS

AHU_10_01/02_RAD_Command
PART NUMBER: EXISTING
LOCATION: PLANT ROOM

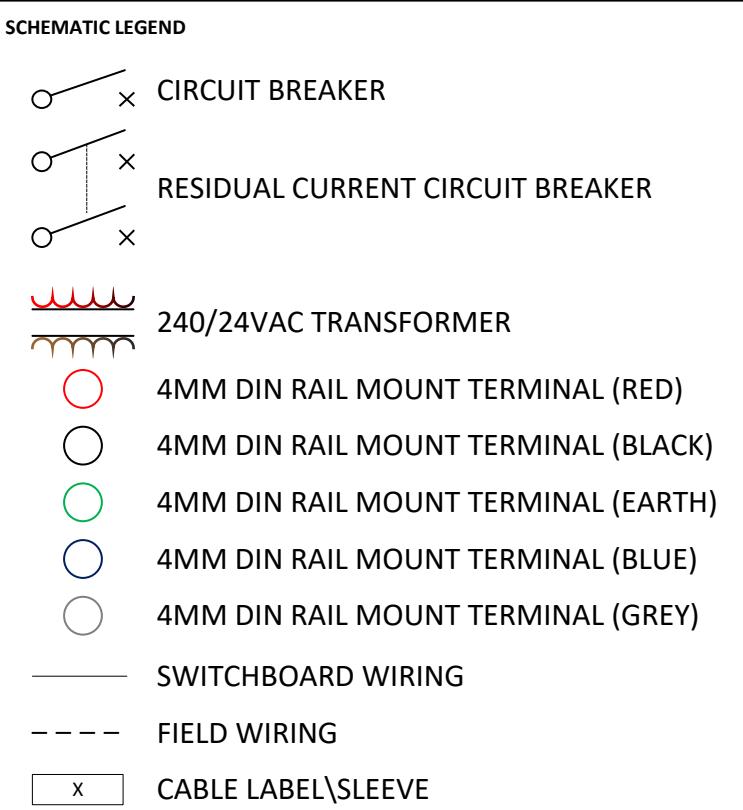
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PART NUMBER: EXISTING
LOCATION: PLANT ROOM

AHU_10_01/02_PAC_OAD_Command
PART NUMBER: EXISTING
LOCATION: PLANT ROOM

AHU_10_01/02_OAD_Command
PART NUMBER: EXISTING
LOCATION: PLANT ROOM

TEF_10_01_EF_Enable
PART NUMBER: EXISTING
LOCATION: PLANT ROOM

OAF_10_01_SF_Enable
PART NUMBER: EXISTING
LOCATION: PLANT ROOM



WIRING LEGEND

| FUNCTION | CABLE | TERMINAL |
|------------|-----------|----------|
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

FC For Construction MZ 20/06/2025

REV DESCRIPTION DRAWN DATE

STATUS AS BUILT



PROJECT TITLE

Rhodes Waterside – EMS & BMS Upgrade

Rhodes

PROJECT NUMBER

501081

DRAWING TITLE

MSSB-L10-02

WIRING DIAGRAM

COMPANY



SMARTER
HVAC
SOLUTIONS

Built in certainty

LEVEL 1/189 KENT STREET, SYDNEY NSW 2000

1300 VAE VAE

VAEGROUP.COM.AU

DRAWN MZ

CHECKED AF

DOCUMENT SIZE A1

SCALE NTS

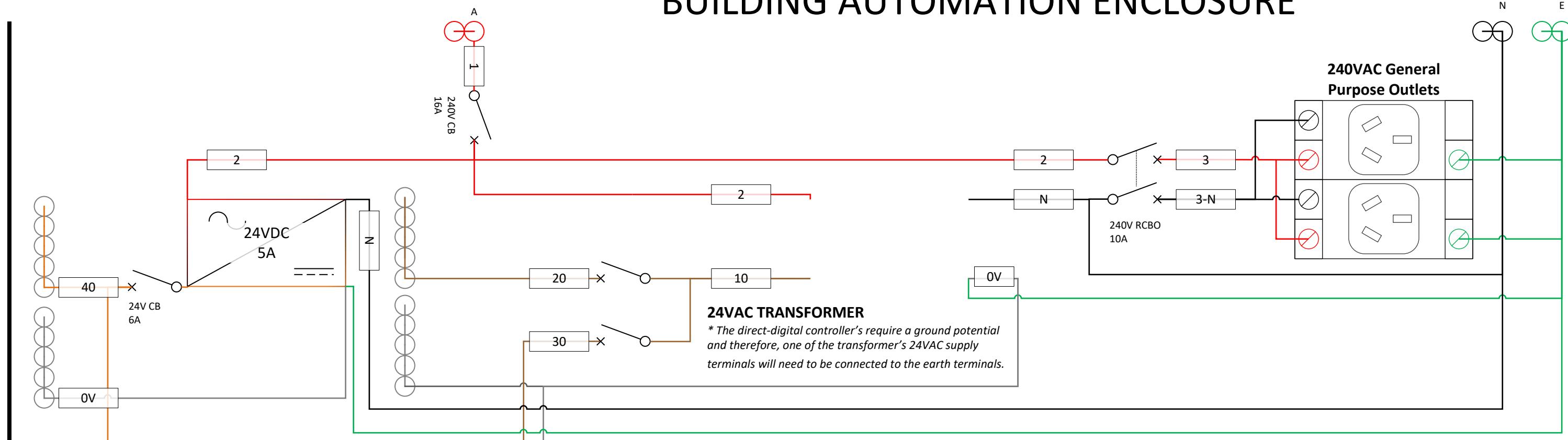
CREATED 20/06/2025

PAGE 45 OF 47

DRAWING NUMBER

VAE-501081-BMS-MASTER-DOCUMENT-45

BUILDING AUTOMATION ENCLOSURE



| SCHEMATIC LEGEND | |
|------------------|-------------------------------------|
| | CIRCUIT BREAKER |
| | RESIDUAL CURRENT CIRCUIT BREAKER |
| | 240/24VAC TRANSFORMER |
| | 4MM DIN RAIL MOUNT TERMINAL (RED) |
| | 4MM DIN RAIL MOUNT TERMINAL (BLACK) |
| | 4MM DIN RAIL MOUNT TERMINAL (EARTH) |
| | 4MM DIN RAIL MOUNT TERMINAL (BLUE) |
| | 4MM DIN RAIL MOUNT TERMINAL (GREY) |
| | SWITCHBOARD WIRING |
| | FIELD WIRING |
| | CABLE LABEL\ SLEEVE |

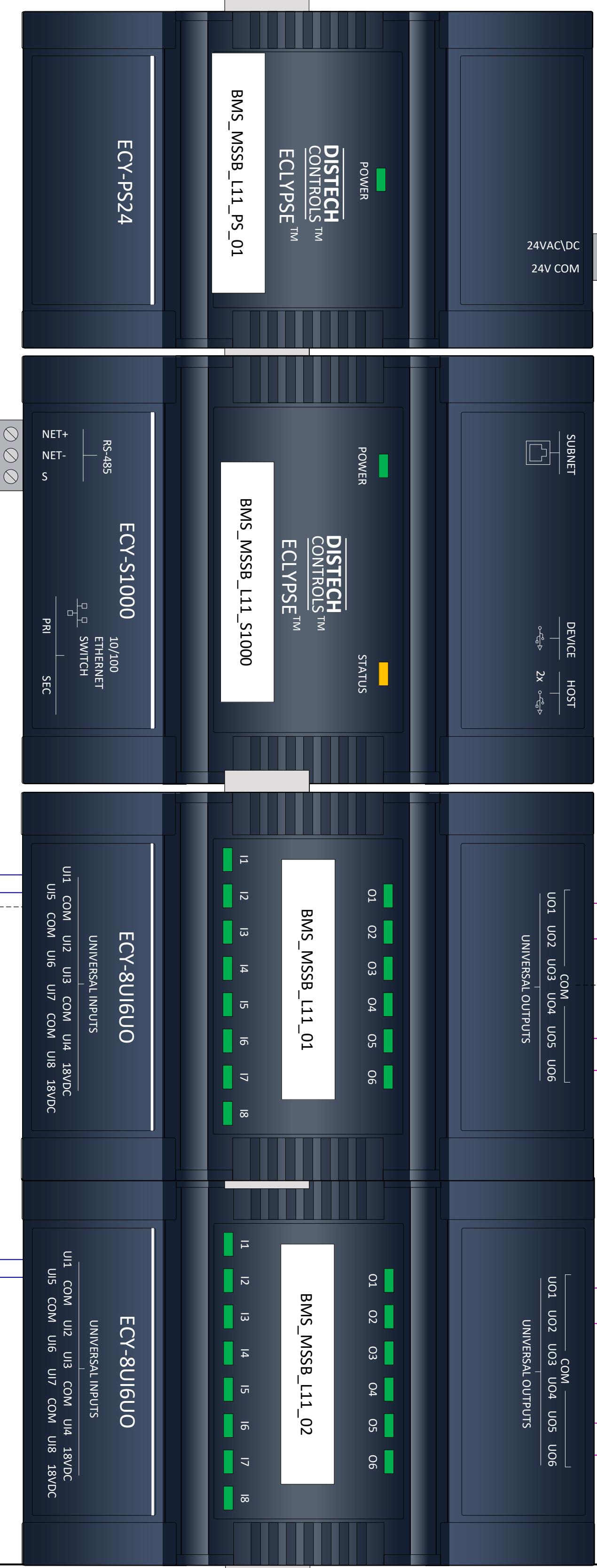
FIELD

INPUTS

| |
|--|
| CTF_2_1_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| CDWP_2_1_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |

| |
|--|
| CTF_2_2_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| CDWP_2_2_Status PART NUMBER: EXISTING LOCATION: PLANT ROOM |

BOARD



FIELD

OUTPUTS

| |
|---|
| 1 2 3 |
| CTF_2_1_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| CTF_2_1_Speed PART NUMBER: EXISTING LOCATION: PLANT ROOM |

| |
|--|
| 1 2 3 |
| CDWP_2_1_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| CDWP_2_1_Speed PART NUMBER: EXISTING LOCATION: PLANT ROOM |

| |
|---|
| 1 2 3 |
| CTF_2_2_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| CTF_2_2_Speed PART NUMBER: EXISTING LOCATION: PLANT ROOM |

| |
|--|
| 1 2 3 |
| CDWP_2_2_Enable PART NUMBER: EXISTING LOCATION: PLANT ROOM |
| CDWP_2_2_Speed PART NUMBER: EXISTING LOCATION: PLANT ROOM |

| FUNCTION | CABLE | TERMINAL |
|------------|-----------|----------|
| 240VAC | RED | RED |
| 240N | BLACK | BLACK |
| 24VAC | BROWN | BLUE |
| 0VAC | GREY | GREY |
| 24VDC | ORANGE | BLUE |
| 0VDC | PURPLE | GREY |
| BMS INPUT | BLUE | GREY |
| BMS OUTPUT | PINK | GREY |
| FIRE | BROWN/RED | GREY |

POWER CONDUCTORS TO BE PHASE COLOURED AND A MINIMUM OF 2.5MM² COPPER.

| | | | |
|-----|------------------|-------|------------|
| FC | For Construction | MZ | 20/06/2025 |
| REV | DESCRIPTION | DRAWN | DATE |

STATUS **AS BUILT**
CLIENT



PROJECT TITLE
Rhodes Waterside – EMS & BMS Upgrade
Rhodes

PROJECT NUMBER
501081
DRAWING TITLE
MSSB-L11-01
WIRING DIAGRAM

COMPANY
VAE GROUP SMARTER HVAC SOLUTIONS
Built in certainty
LEVEL 1/189 KENT STREET, SYDNEY NSW 2000
1300 VAE VAE
VAEGROUP.COM.AU

| | | |
|---------------------|----------------|-----------------------|
| DRAWN MZ | REVISION FC | CREATED 20/06/2025 |
| CHECKED AF | | |
| DOCUMENT SIZE A1 | SCALE NTS | PAGE 46 OF 47 |

DRAWING NUMBER
VAE-501081-BMS-MASTER-DOCUMENT-46

BUILDING AUTOMATION ENCLOSURE

