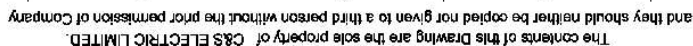
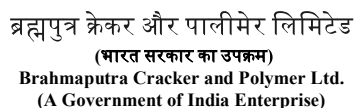
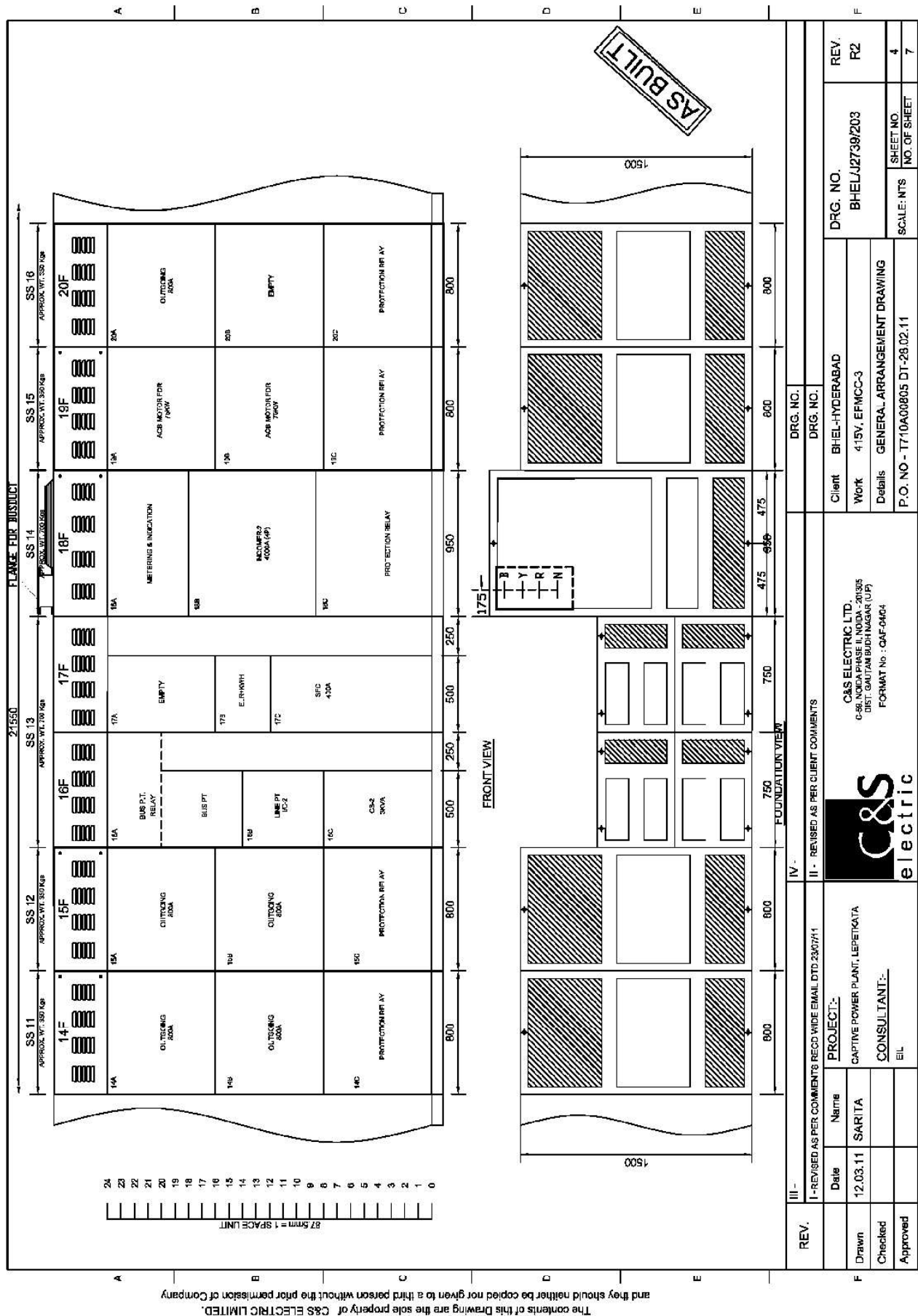


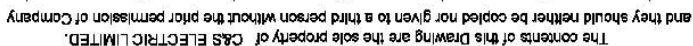
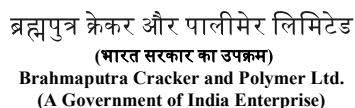
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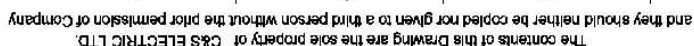
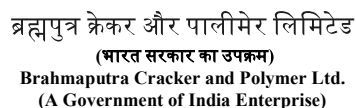


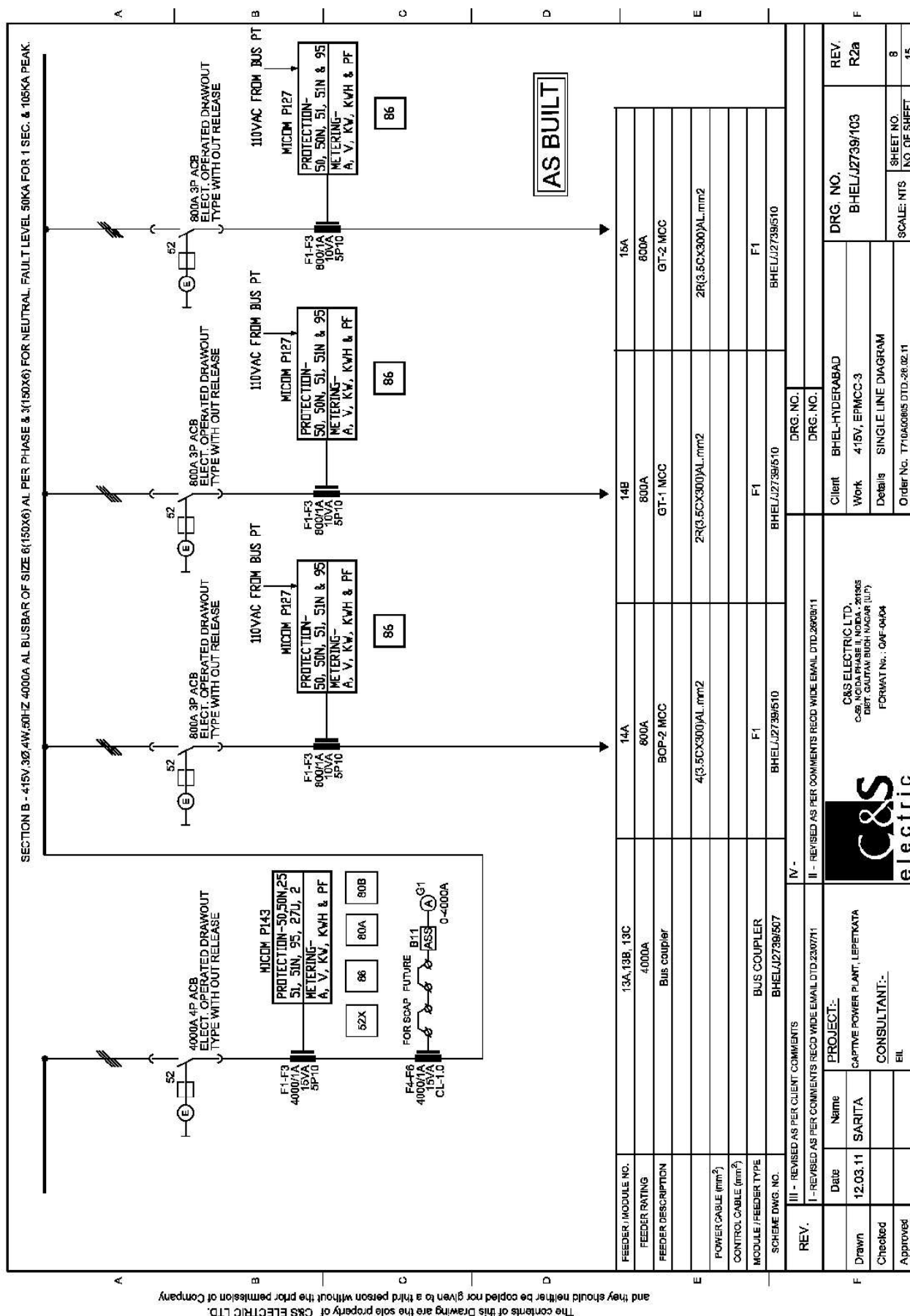
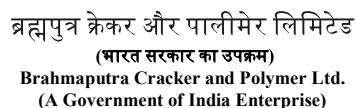


ब्रह्मपुत्र क्रेकर और पालीमेर लिमिटेड  
(भारत सरकार का उपक्रम)  
Brahmaputra Cracker and Polymer Ltd.  
(A Government of India Enterprise)



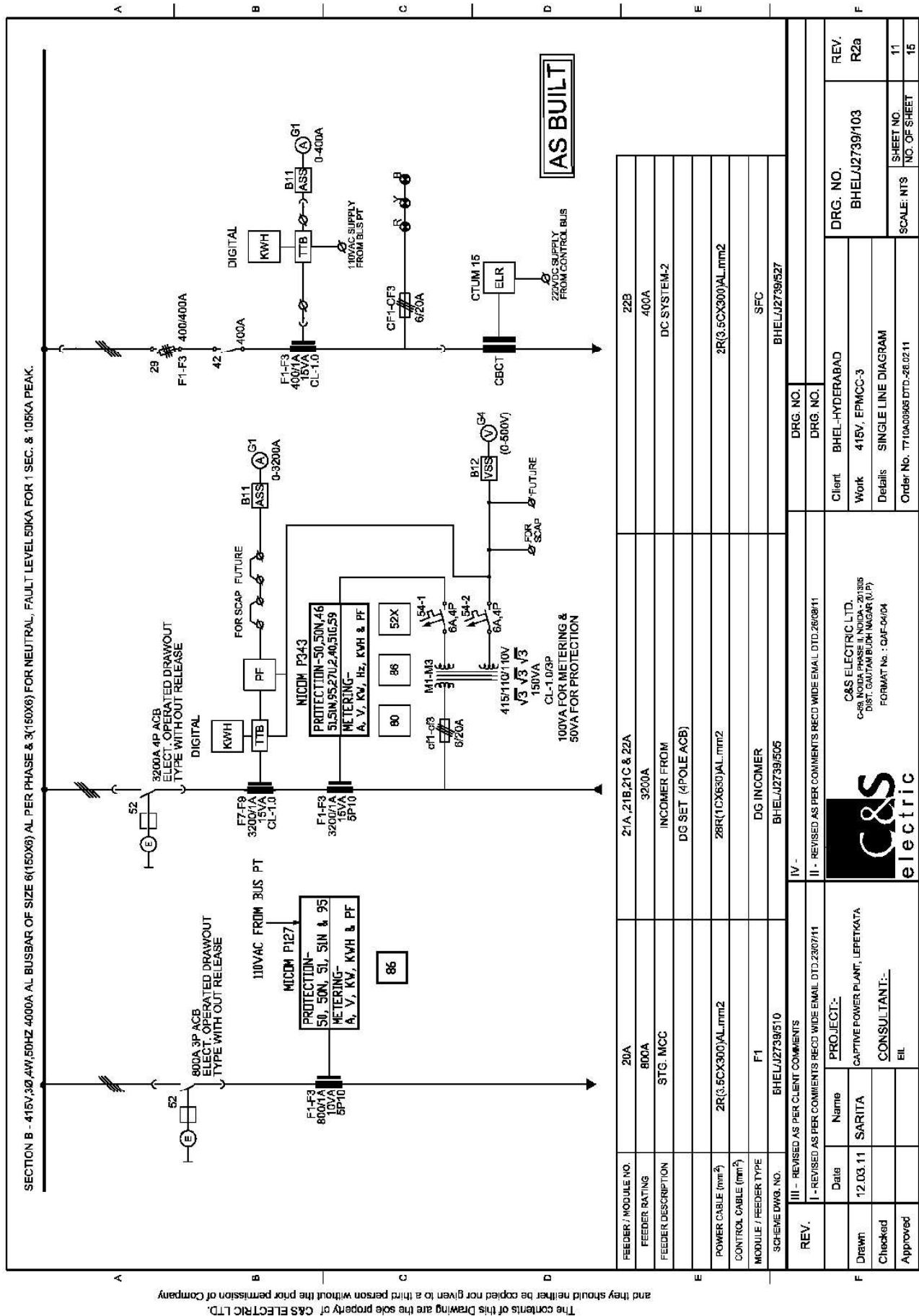








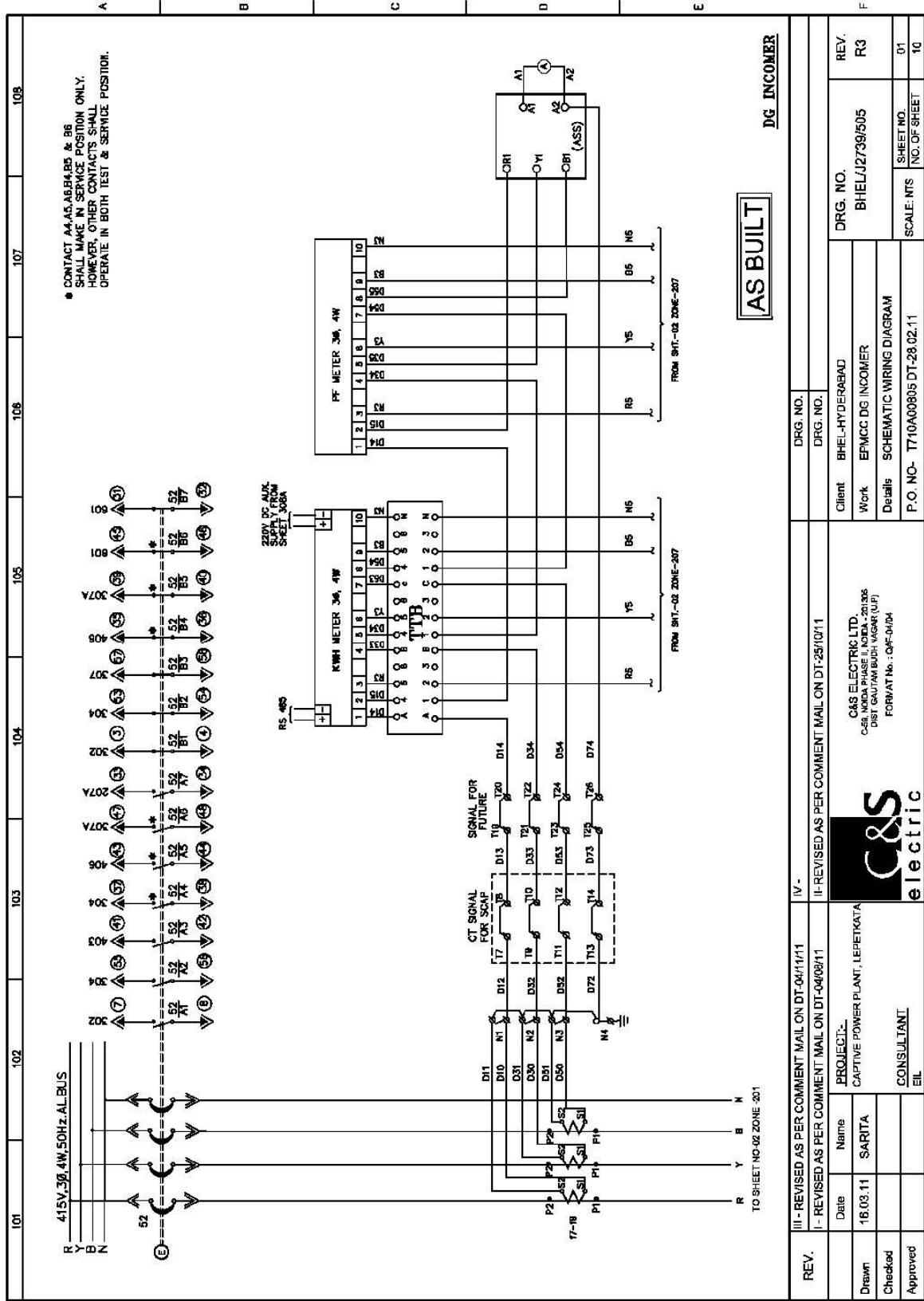
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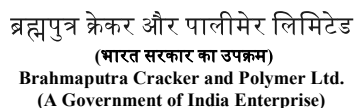
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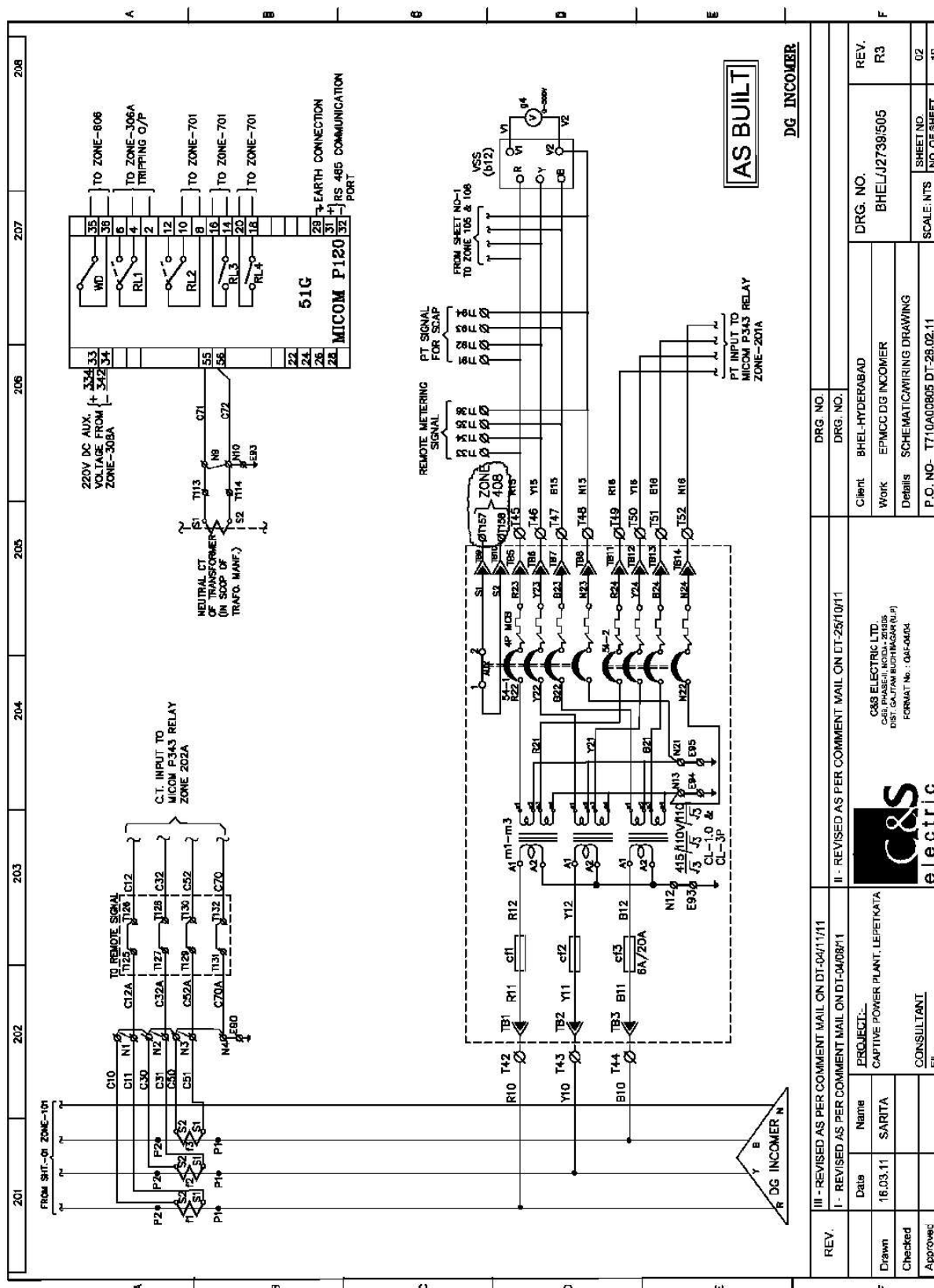


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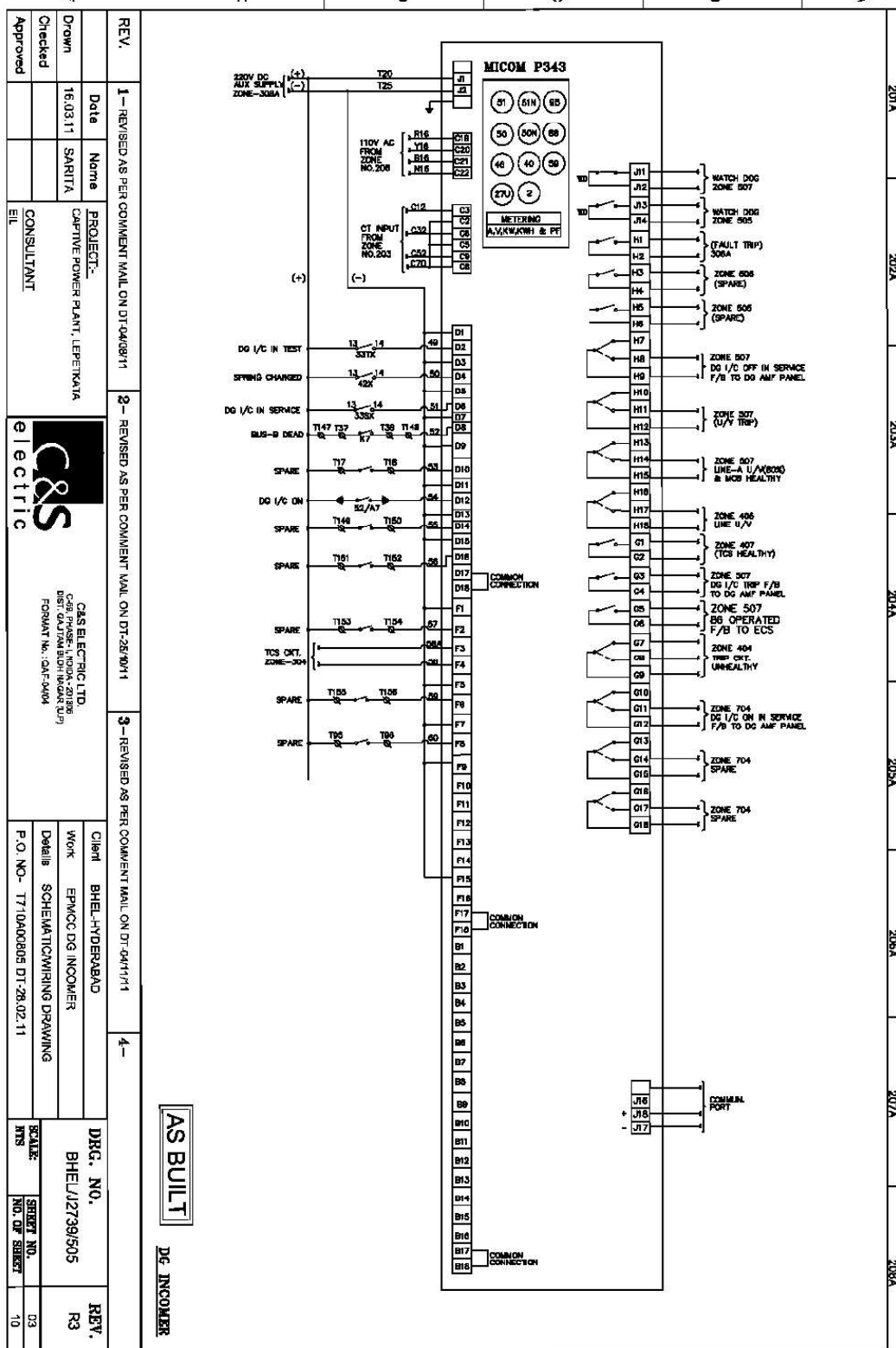


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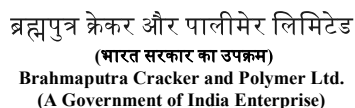
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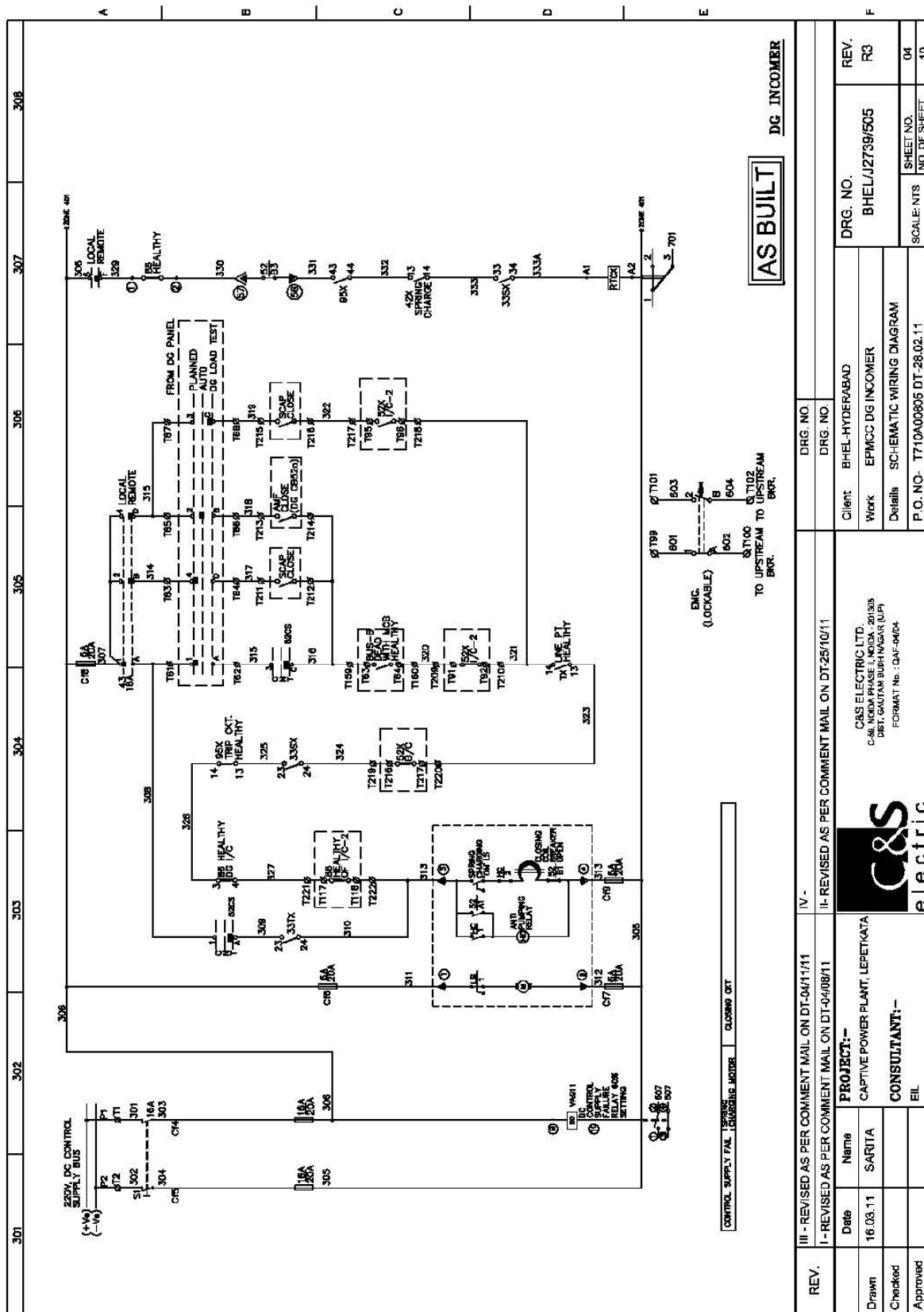


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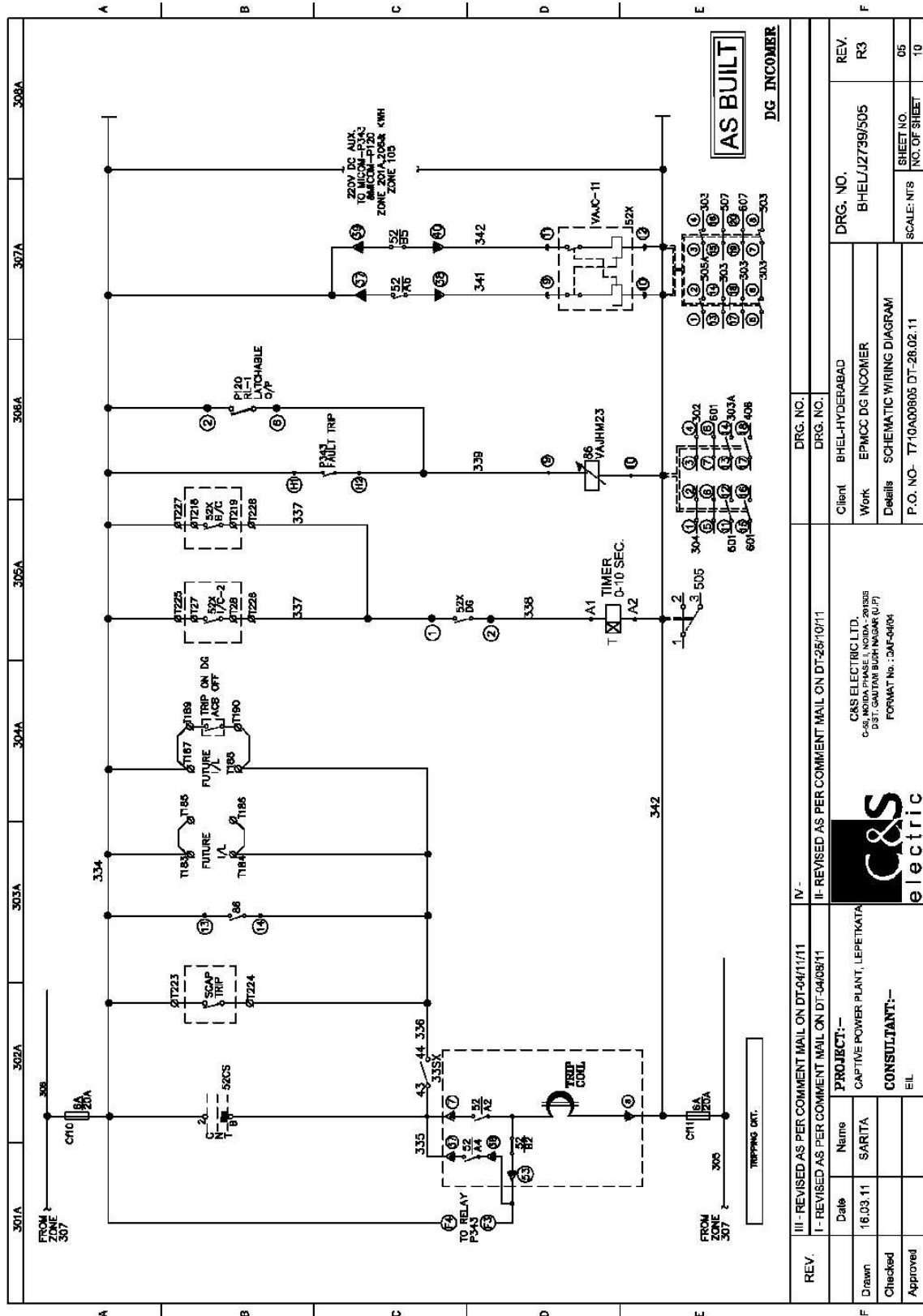
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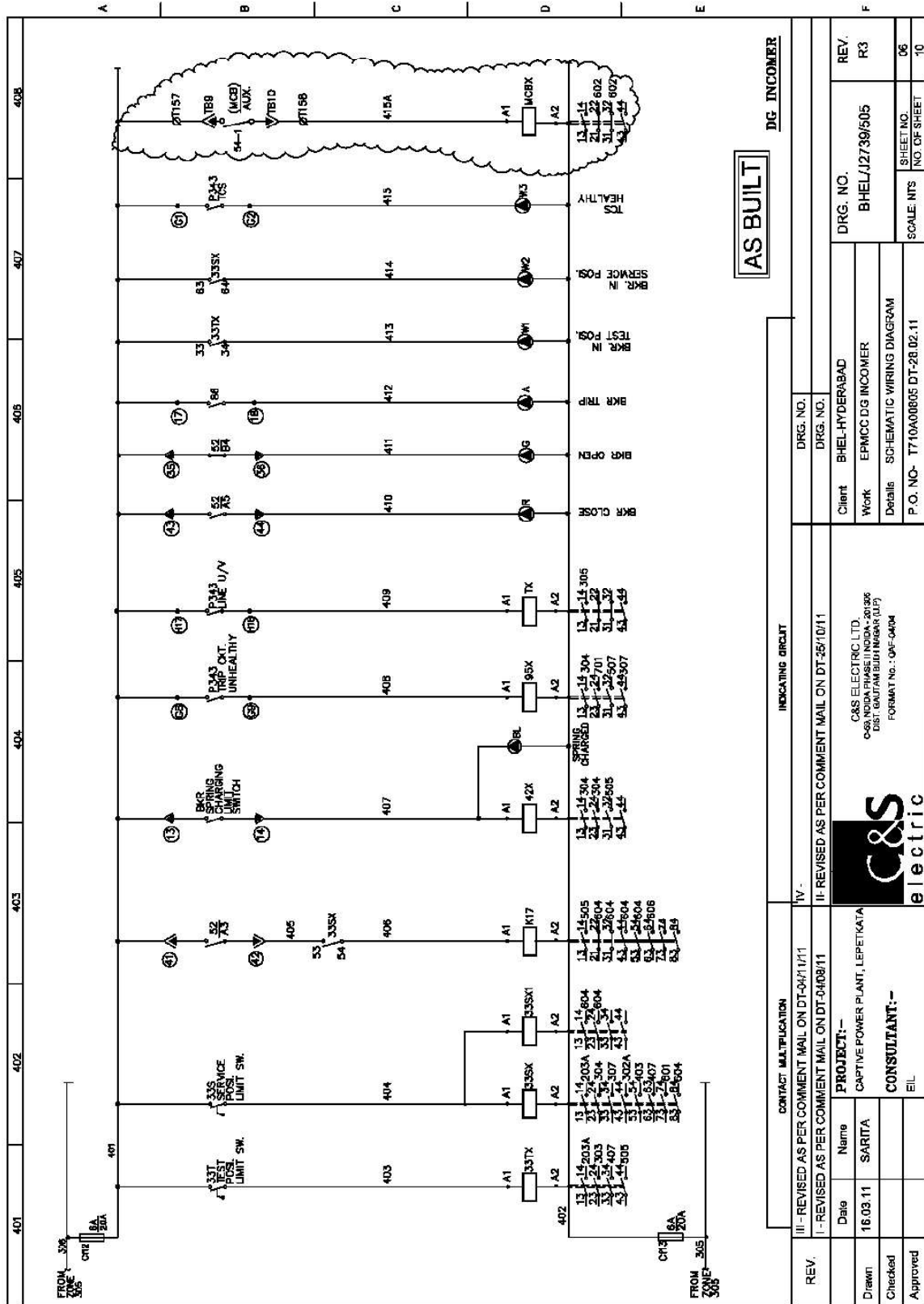
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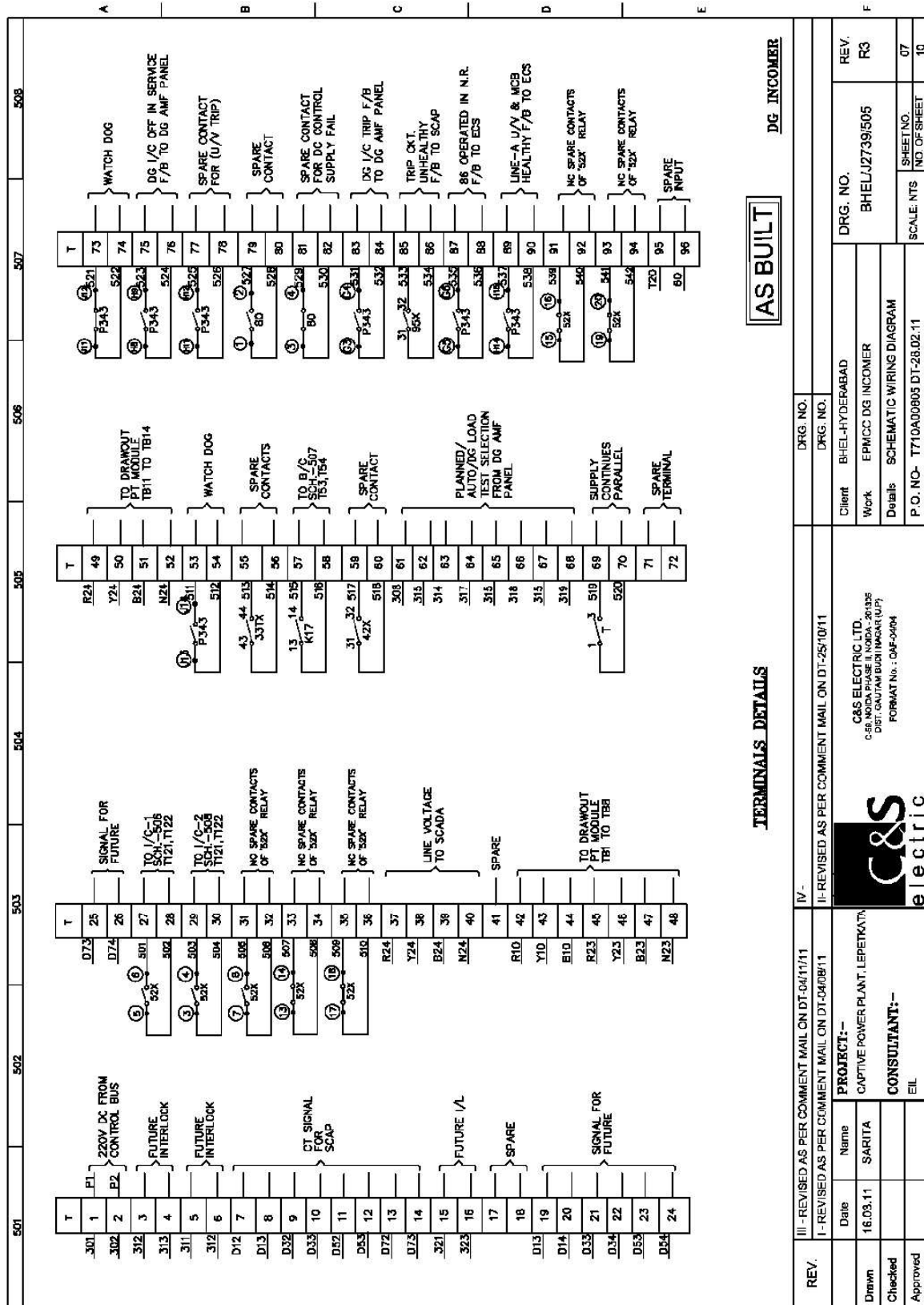
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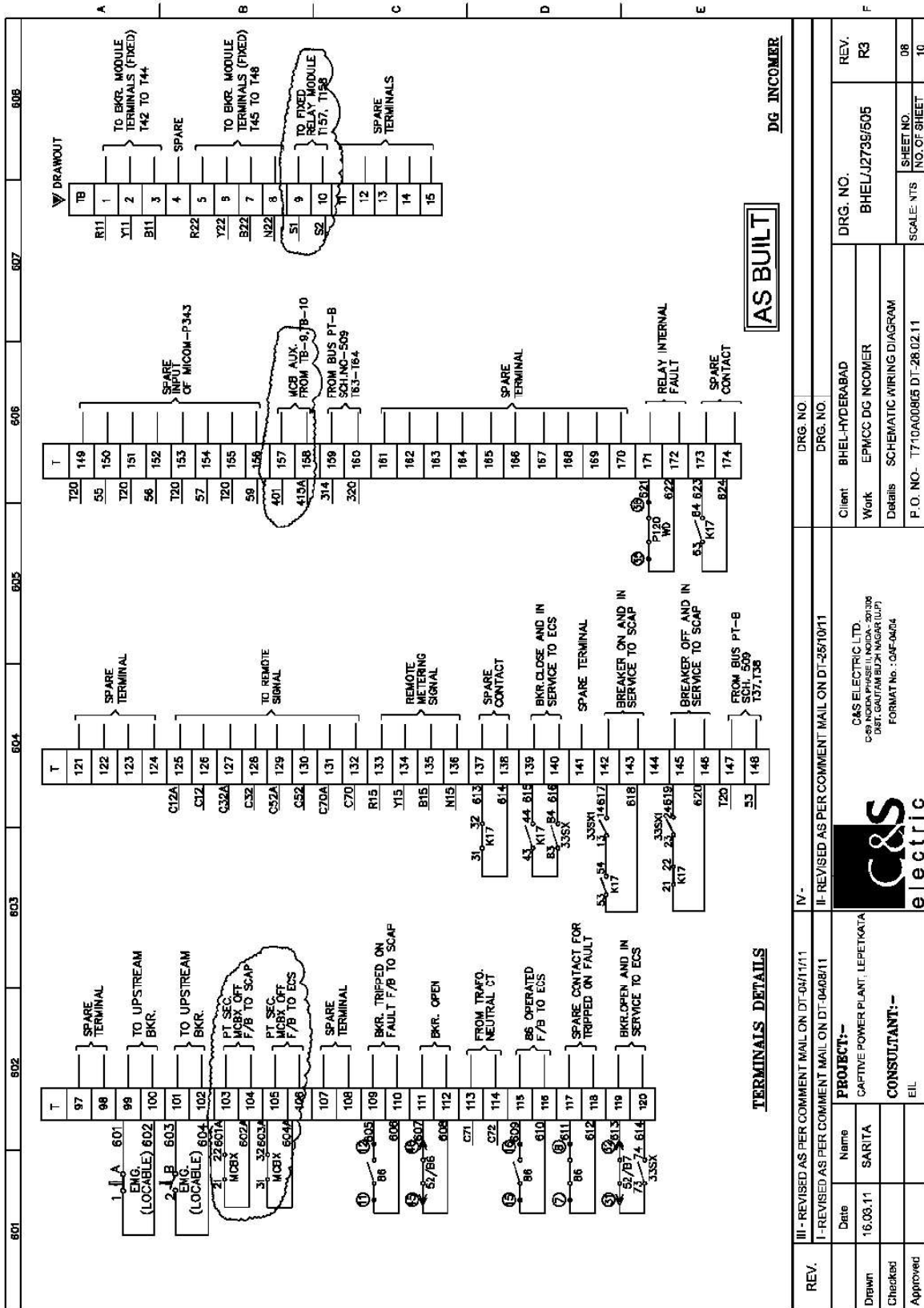
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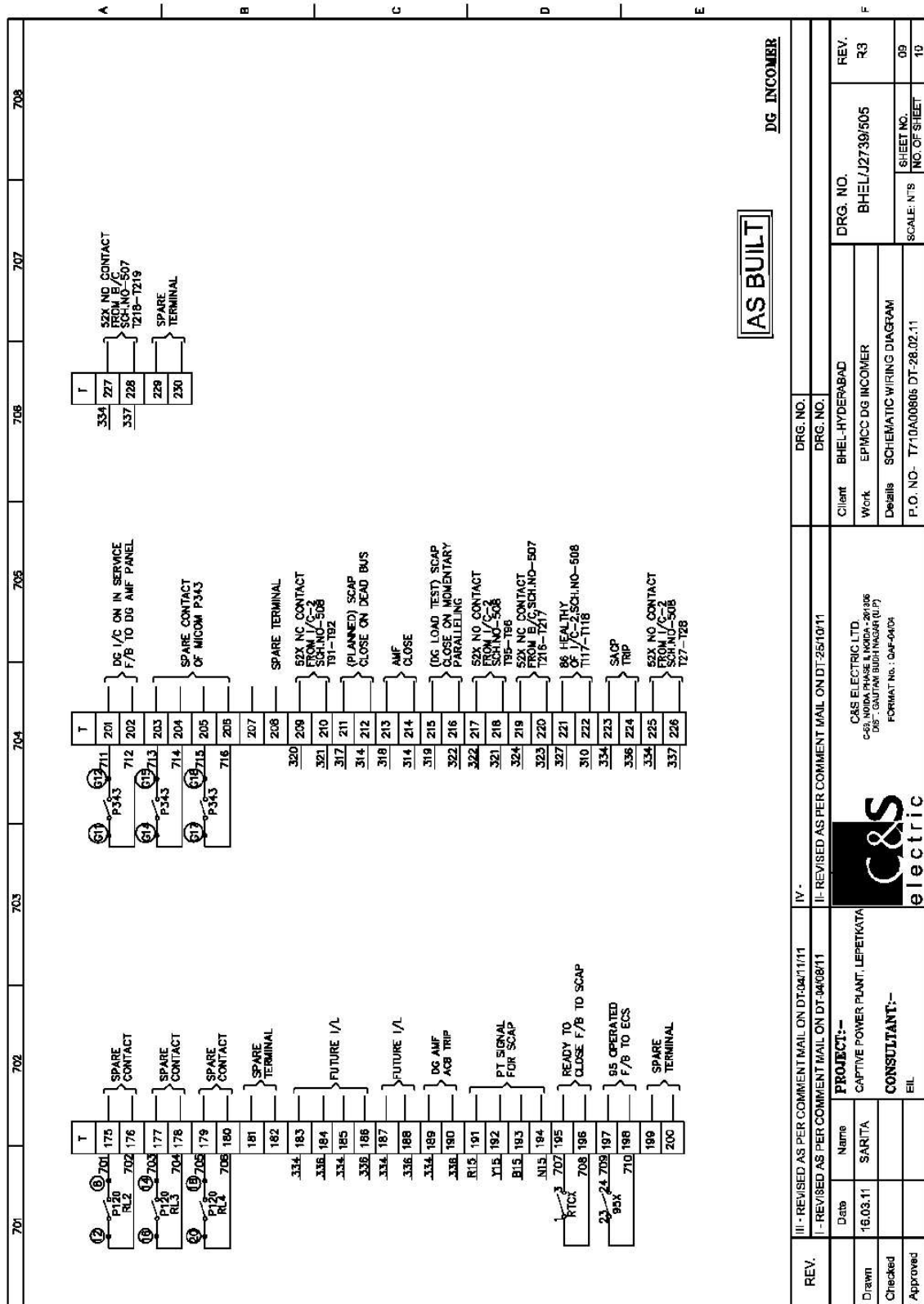
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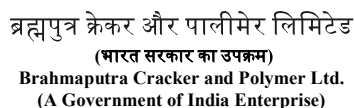
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PROTECTION FUNCTIONS

1

3-PH EMF/DMT O/C PROTECTION

2

3-PH INST/DMT O/C PROTECTION

3

DMT/DMT L/F PROTECTION

4

INS/DMT L/F PROTECTION

5

LINE UNDER VOLTAGE WITH TIMER

6

CHECK SYNCHRONISM

7

CIRCUIT BREAKER FAILURE

OTHER FUNCTIONS AVAILABLE IN RELAY

1

CIRCUIT BREAKER CONTROL

2

INSURANCE RECORDING

3

FAULT RECORDING

4

EVENT RECORDING

5

DOUBLING FEATURE DURING STARTING

LED INDICATION ON RELAY

LED

DESCRIPTION

1

DMT OVER CURRENT TRIP

2

INST OVER CURRENT TRIP

3

DMT EARTH FAULT TRIP

4

INST. EARTH FAULT TRIP

5

CIRCUIT BREAKER FAILURE

6

TRIP CIRCUIT UNHEALTHY

7

CB SPRING NOT CHARGED

8

LOCKOUT OPERATED (80)

9

CB CONDITION MONITORING ALARM

10

LINE UNDER VOLTAGE

11

SYNCHROCHECK OK

MEASUREMENT FUNCTIONS

1

3-PHASE CURRENT MEASUREMENT

2

NEUTRAL CURRENT MEASUREMENT

3

3-PHASE VOLTAGE MEASUREMENT

4

ACTIVE POWER MEASUREMENT

5

REACTIVE POWER MEASUREMENT

6

ENERGY MEASUREMENT

7

POWER FACTOR MEASUREMENT

CONDITION MONITORING FEATURES

1

RELAY INTERNAL SELF SUPERVISION

2

TRIP CIRCUIT SUPERVISION

3

BREAKER CONDITION MONITORING

OUTPUT CONTACT OF RELAY

OUTPUT NO.

SIGNAL DESCRIPTION

J1, J12

WATCH DOG

J2, J14

WATCH DOG

H1, H2

FAULT TRIP

H3, H4

SPARE CONTACT

H5, H6

SPARE CONTACT

H8, H9

DO V/C OFF IN SERVICE F/B TO DO AMP PANEL

H11, H12

U/V TRIP

H14, H15

LINE-A U/V

H17, H18

LINE U/V

G1, G2

TRIP CIRCUIT HEALTHY

G3, G4

DO V/C TRIP F/B TO DO AMP PANEL

G5, G6

B6 OPERATED F/B TO EDS

G7, G8, G9

TRIP OKT. UNHEALTHY

G11, G12

DO V/C ON IN SERVICE F/B TO DO AMP PANEL

G14, G15

SPARE CONTACT

G17, G18

SPARE CONTACT

RELAY COMMUNICATION DETAILS

FRONT COMMUNICATION PORT

RS232

REAR COMMUNICATION PORT

RS485

COMMUNICATION PROTOCOL

IEC-61850

AS BUILT

DG INCOMER

REV.

III - REVISED AS PER COMMENT MAIL ON DT-04/11/11  
[ - REVISED ] AS PER COMMENT MAIL ON DT-04/09/11

IV -  
II - REVISED AS PER COMMENT MAIL ON DT-25/10/11

Date

16.03.11

Name

SARITA

PROJECT:-

CAPTIVE POWER PLANT, LEPEKATA

CONSULTANT:-

EIL

Drawn

Checked

Approved

Client

Work

Details

P.O. NO.- 1710A00R05 DT-28.02.11

BHEL-HYDERABAD

EPNCGG DG INCOMER

SCHEMATIC WIRING DIAGRAM

DRG. NO. BHEL/J2739/505

REV. R3

SHEET NO. 10

SCALE: NTS

C&S ELECTRIC LTD.

C-50, 2ND FLOOR, BURNINGWATER (U.P.)

FORMAT No. : C&F 04/04

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