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● DIAMOND LIGHT SOURCE LTD 2006

A FIRST ISSUE

B MODS POST RAF EENG-FE-RAF-005

C MODS APPLIED FROM REVIEW SEE EENG-FE-RAF-0006

D TERMINAL NUMBERING CORRECTIONS ON PIM04

E IDENTIFICATION CORRECTIONS ON VARIOUS SHEETS

F ADDED PBPM'S

G AS BUILT

H SEE EENG-FE-RAF-0014

I SHEET 9 - FVG-01/02 (READY O/P) TERMINALS WIRED BACK TO CIU-01 TERMINALS 19 AND 20. TB-02 ADDED. SHEET 10 - FVG-03/04 (READY O/P) TERMINALS WIRED BACK TO CIU-01 TERMINALS 21 AND 22. TB-02 ADDED.

J SHEET 7 - GUARD LINE A & B PLACED IN SERIES, ID INTERLOCK ADDED.

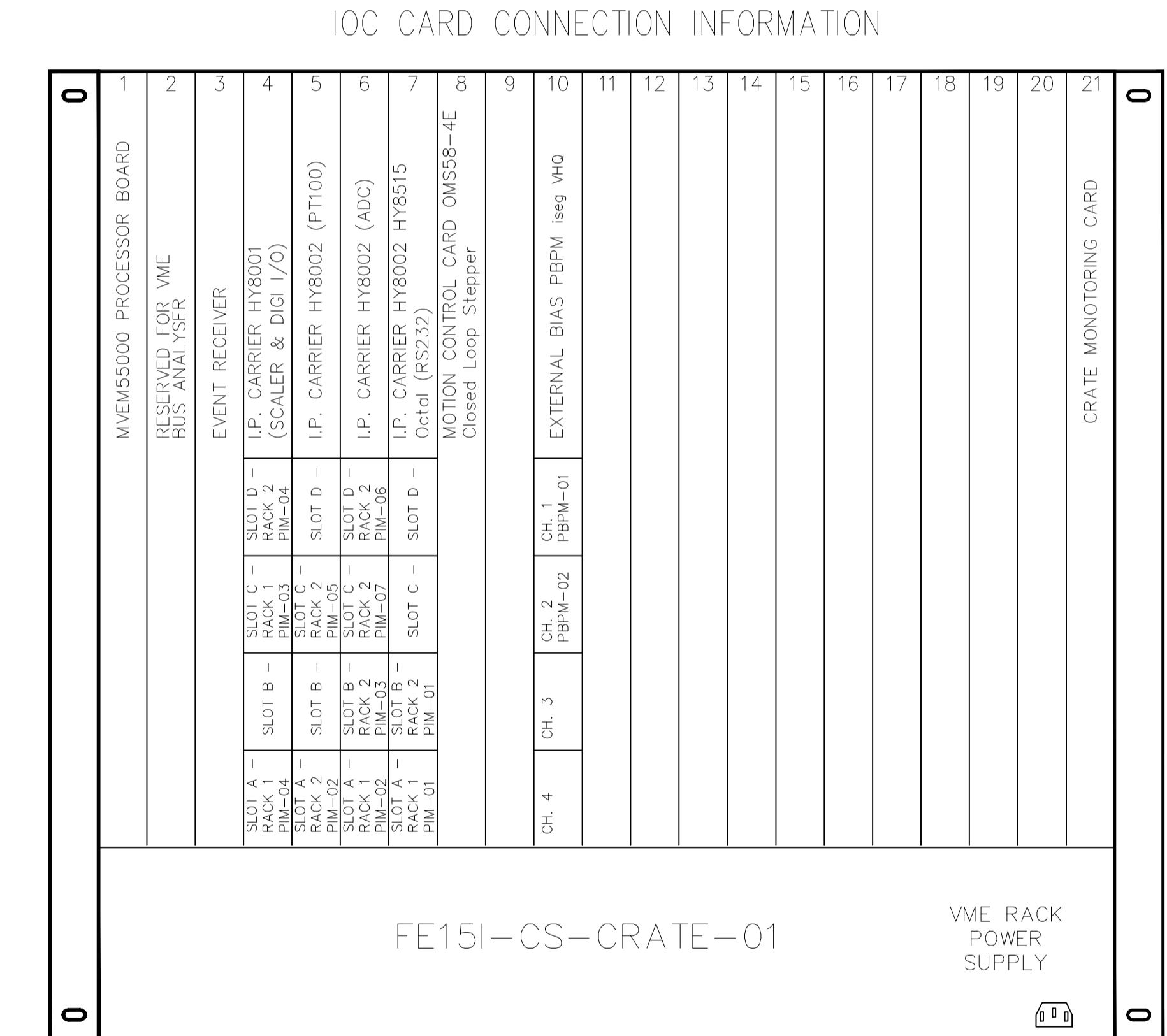
K SHEET 4 SLOT 3 DELETED, PMC EVENT RECEIVER ADDED

L SHEET 2 & 3 PSU REPLACED WITH DUPLEX PSU. SHT 5, PSU HEALTHY SIGNALS ADDED TO PIM 03

HOOK-UP DRAWING DRAWINGS	
SHEET	DESCRIPTION
1	HOOK-UP DRAWING INDEX
2	FE15I-CS-RACK-01 230VAC / 24VDC POWER DISTRIBUTION.
3	FE15I-CS-RACK-02 230VAC / 24VDC POWER DISTRIBUTION.
4	FE15I-CS-RACK-01/02 NETWORK / COMMS (SERIAL)
5	FE15I-CS-RACK-01/02 FAN FAILURE ALARM
6	FE15I-RS-ABSB-01 AND FE15I-VA-VALVE-01 CONTROL
7	FE15I-PS-SHTR-01 CONTROL & MPS DETAIL
8	FE15I-PS-SHTR-02 AND FE15I-VA-VALVE-02 CONTROL
9	FE15I-VA-FCTLR-01 FAST FLAP CONTROLLER 01
10	FE15I-VA-FCTLR-01 FAST FLAP CONTROLLER 02
11	FE15I-VA-IONP-01/02/03/04/05 CONTROL.
12	FE15I-VA-IMG-01/02, FE15I-VA-PIRG-01/02, FE15I-VA-RGA-01, CONTROL.
13	FE15I-VA-IMG-03/04, FE15I-VA-PIRG-03/04, CONTROL.
14	FE15I-VA-IMG-05/06, FE15I-VA-PIRG-05/06, CONTROL.
15	FE15I-AL-APTR-03 MOTION CONTROL (TABLE 01)
16	FE15I-DI-PBPM-01 MOTION CONTROL (FUTURE)
17	FE15I-DI-PBPM-01 MOTION CONTROL (FUTURE)
18	FE15I-DI-PBPM-02 MOTION CONTROL (FUTURE)
19	FE15I-DI-PBPM-02 MOTION CONTROL (FUTURE)
20	FE15I MODULE ASSEMBLY 01 TEMPERATURE TRIPS
21	FE15I MODULE ASSEMBLY 01 WATER FLOWS & SWITCHES
22	FE15I MODULE ASSEMBLY 02 TEMPERATURE INDICATION
23	FE15I MODULE ASSEMBLY 02 WATER FLOWS & SWITCHES
24	FE15I-DI-PBPM-01 & 02 TEMPERATURE TRIPS
25	

# STORAGE RING CELL 15 FE15I INSTRUMENTATION & CONTROL HOOK-UP DRAWING

VENDOR REFERENCE DRAWINGS / DOCUMENTATION	
REFERENCE	TITLE
1010498	BLOCK CABLE DIAGRAM (BCD)
1011656	GENERAL ARRANGEMENT (GA)
1008741/ 1008742	6 VALVE CONTROL CRATE
1002602	POWER SUPPLY UNIT (SIMPLEX)



INTERNAL WIRE NUMBERS  
1. LAST NUMBER USED FOR FE15I-CS-RACK-01 :- 143  
2. LAST NUMBER USED FOR FE15I-CS-RACK-02 :- 231



diamond

DIAMOND LIGHT SOURCE LTD.  
DIAMOND HOUSE,  
CHILTON, DIDCOT,  
OXFORDSHIRE, OX11 0DE.

THIS  
REVISION

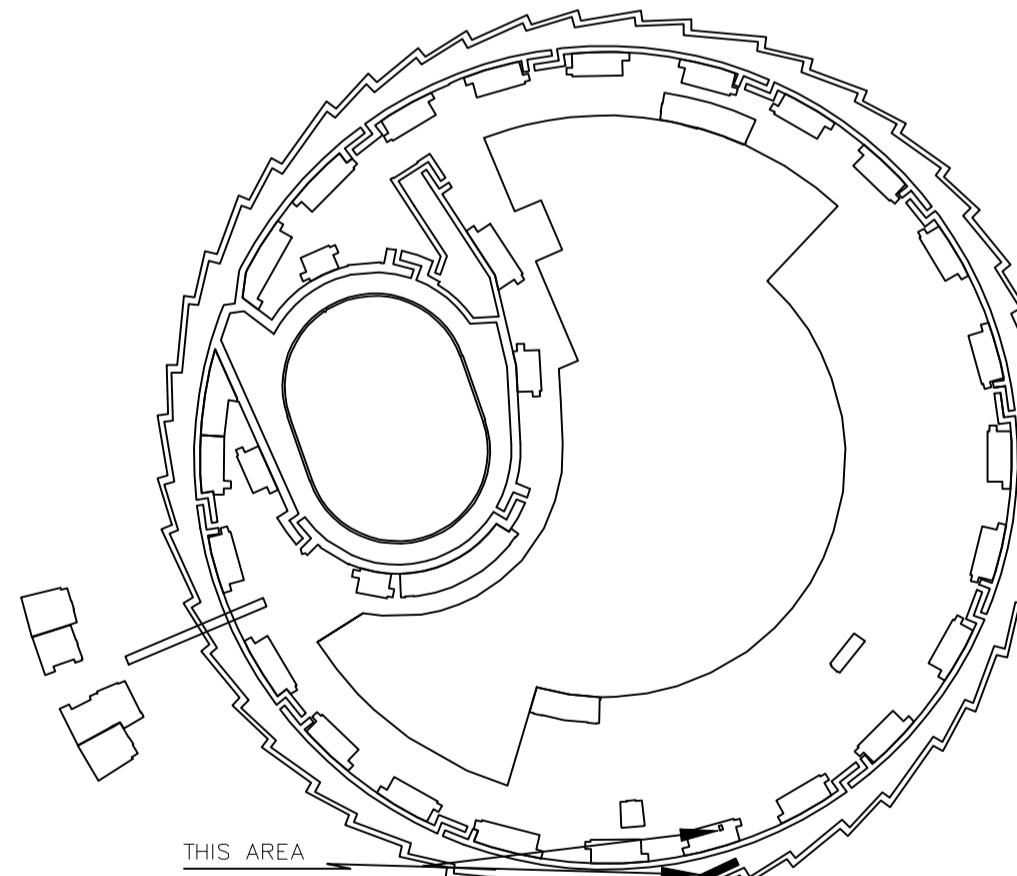
DRN DATE 27/10/11  
CHK DATE 02/11/11  
APPD DATE 02/11/11  
AUTOCAD

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AFT  
AFT  
Approved

ORIGINATOR/DATE NGR 10/02/04  
DRC No. 1007149  
SHEET 1 OF 24  
REVISION L

HOLDS

KEY PLAN



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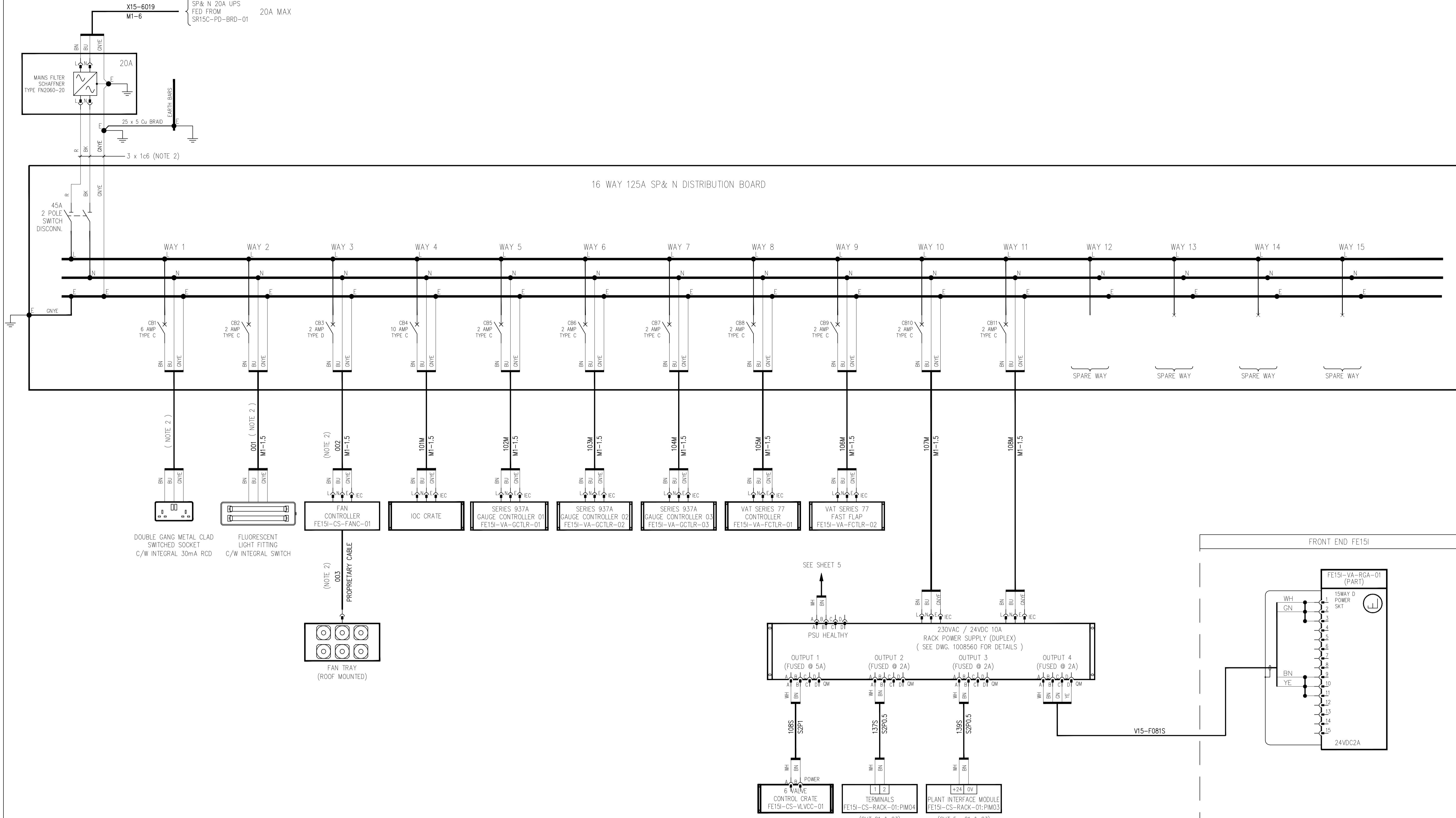
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A

FIRST ISSUE

B

MODS POST RAF

EEENG-FE-RAF-005

C

MODS APPLIED FROM

REVIEW SEE

EEENG-FE-RAF-0006

D

TERMINAL NUMBERING

CORRECTIONS ON

VARIOUS SHEETS

E

IDENTIFICATION

CORRECTIONS ON

VARIOUS SHEETS

F

ADDED PBPM's

G

AS BUILT

H

SEE EENG-FE-RAF-0014

I

SHEET 9 - FVG-01/02

(READY O/P)

TERMINALS WIRED BACK

19 AND 20.

TB-02 ADDED

SHEET 10 - FVG-03/04

(READY O/P)

TERMINALS WIRED BACK

21 AND 22.

TB-02 ADDED.

J

SHEET 7 - GUARD LINE

A &amp; B PLACED IN

SERIES, ID INTERLOCK

ADDED.

SHEET 20 -

TERMINALS ON CIU-03

RENUMBERED SHEET 4

K

SHEET 4

SLOT 3 DELETED, PMC

EVENT RECEIVER

ADDED

L

SHEET 2 &amp; 3

PSU REPLACED WITH DUPLEX

PSU. SHT 5. PSU

HEALTHY SIGNALS ADDED

TO PM 03

E

F

G

H

J

K

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THIS

REVISION

DRN

AUB

DATE

27/10/11

CHK

AFT

DATE

02/11/11

APPD

AFT

DATE

02/11/11

ORIGINATOR/DATE

NGR

10/02/04

DRG STATUS

Approved

DRC No.

1007149

SHEET

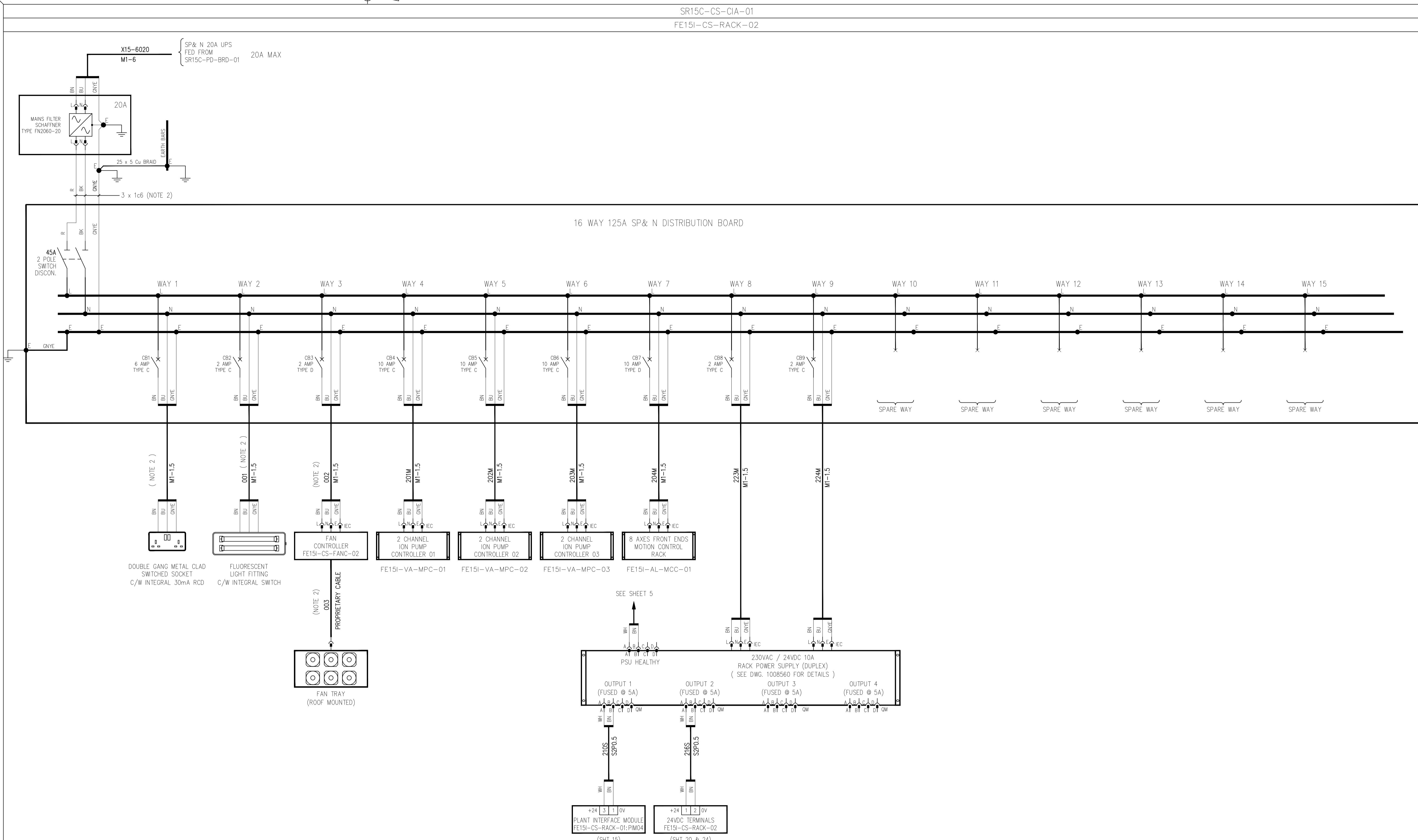
2 OF 24

REVISION

L

K

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NOTES  
1. FOR ALL ASSOCIATED REFERENCE DRAWINGS / DOCUMENTATION SEE INDEX SHEET 1.  
2. PRE-CABLED BY ENCLOSURE VENDOR.  
3. ALL INTERNAL RACK EQUIPMENT TO BE SUITABLY IDENTIFIED.



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THIS  
REVISION  
DRN AUB  
DATE 27/10/11  
CHK AFT  
DATE 02/11/11  
APPD AFT  
DATE 02/11/11  
ORIGINATOR/DATE NGR 10/02/04  
DRG STATUS Approved  
DRC No. 1007149  
SHEET 3 OF 24  
REVISION L

A FIRST ISSUE

B

MODS POST RAF  
EEENG-FE-RAF-005

C

MODS APPLIED FROM  
REVIEW SEE  
EEENG-FE-RAF-006

D

TERMINAL NUMBERING  
CORRECTIONS ON  
PIM04

E

IDENTIFICATION  
CORRECTIONS ON  
VARIOUS SHEETS

F

ADDED PBM's

G

AS BUILT

H

SEE EENG-FE-RAF-0014

I

SHEET 9 - FVG-01/02  
(READY O/P)  
TERMINALS WIRED BACK  
TO CIU-01 TERMINALS  
19 AND 20.  
TB-02 ADDED.

J

SHEET 10 - FVG-03/04  
(READY O/P)  
TERMINALS WIRED BACK  
TO CIU-01 TERMINALS  
21 AND 22.  
TB-02 ADDED.

K

SHEET 7 - GUARD LINE  
A & B PLACED IN  
SERIES, ID INTERLOCK  
ADDED.

L

SHEET 2 & 3  
SLOT 3 DELETED, PMC  
EVENT RECEIVER  
ADDED

D

SHEET 4  
REFLECTOR WITH DUPLEX  
PSU SH 5, PSU  
HEALTHY SIGNALS ADDED  
TO PIM 03

E

F

G

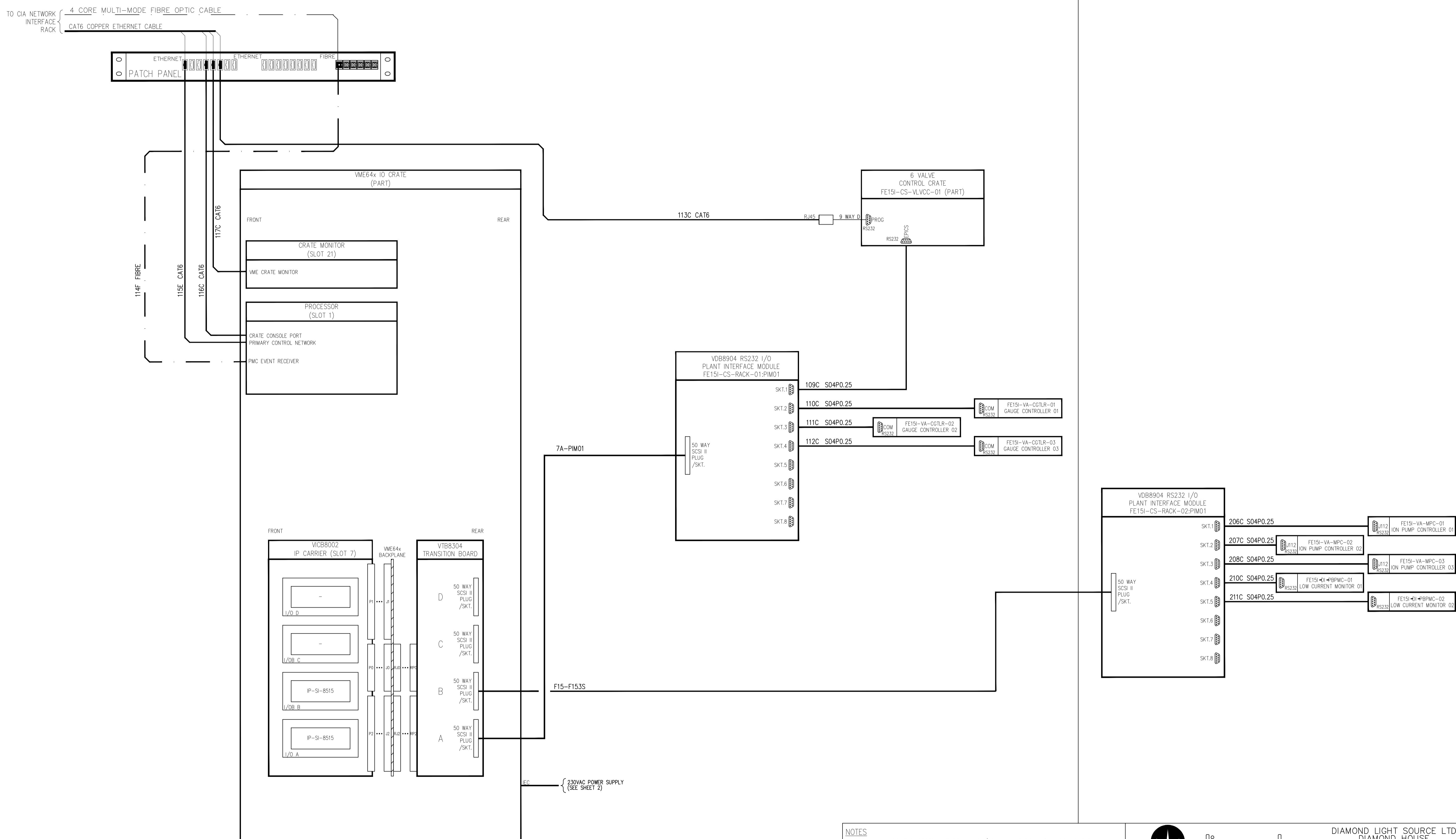
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J

K

SR15C-CS-CIA-01  
FE15I-CS-RACK-01

FE15I-CS-RACK-02



NOTES  
 1. FOR ALL ASSOCIATED REFERENCE DRAWINGS / DOCUMENTATION SEE INDEX SHEET 1.  
 2. PRE-CABLED BY ENCLOSURE VENDOR.  
 3. ALL INTERNAL RACK EQUIPMENT TO BE SUITABLY IDENTIFIED.  
 4. FOR RS232/422 LEAD DETAILS SEE DWG 1008690.

**diamond**  
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CHILTON, DIDCOT,  
OXFORDSHIRE. OX11 0DE.

THIS REVISION		TITLE	
DRN	AJD	STORAGE RING CELL 15	
DATE	27/10/11	FE15I FRONT END CONTROL SYSTEM	
CHK	AFT	HOOK-UP DRAWING	
DATE	02/11/11		
APPD	AFT		
DATE	02/11/11		
ORIGINATOR/DATE	NGR 10/02/04	DRG STATUS	
DRC No.	1007149	SHEET	Approved
		REVISION	
	4 OF 24	L	

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A

B

MODS POST RAF  
EEENG-FE-RAF-005

C

MODS APPLIED FROM  
REVIEW SEE  
EEENG-FE-RAF-0006

D

TERMINAL NUMBERING  
CORRECTIONS ON PIM04

E

IDENTIFICATION  
CORRECTIONS ON  
VARIOUS SHEETS

F

SEE ENG-FE-RAF-0014

-

SHEET 9 - FVG-01/02  
(READY O/P)  
TERMINALS WIRED BACK  
TO CIU-01 TERMINALS  
19 AND 20.  
TB-02 ADDED.SHEET 10 - FVG-03/04  
(READY O/P)  
TERMINALS WIRED BACK  
TO CIU-01 TERMINALS  
21 AND 22.  
TB-02 ADDED.

J

SHEET 7 - GUARD LINE  
A & B PLACED IN  
SERIES, ID INTERLOCK  
ADDED.SHEET 20 -  
TERMINALS ON CIU-03  
RENUMBERED SHEET 4

K

SHEET 4  
SLOT 3 DELETED, PMC  
EVENT RECEIVER  
ADDED

L

SHEET 2 & 3  
PSU SH1.5, PSU  
HEALTHY SIGNALS ADDED  
TO PIM 03

D

E

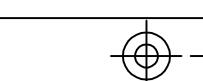
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A

FIRST ISSUE

B

MODS POST RAF  
EENG-FE-RAF-005

C

MODS APPLIED FROM  
REVIEW SEE  
EENG-FE-RAF-0006

D

TERMINAL NUMBERING  
CORRECTIONS ON PIM04

E

IDENTIFICATION  
CORRECTIONS ON  
VARIOUS SHEETS

F

ADDED PBPMS

G

AS BUILT

H

SEE EENG-FE-RAF-0014

I

SHEET 9 - FUG-01/02  
(READY O/P)  
TERMINALS WIRED BACK  
TO CIU-01 TERMINALS  
19 AND 20.  
TB-02 ADDED.

J

SHEET 10 - FVG-03/04  
(READY O/P)  
TERMINALS WIRED BACK  
TO CIU-01 TERMINALS  
21 AND 22.  
TB-02 ADDED.

K

SHEET 7 - GUARD LINE  
A & B PLACED IN  
SERIES, ID INTERLOCK  
ADDED.

L

SHEET 4  
SLOT 3 DELETED, PMC  
EVENT RECEIVER  
ADDED

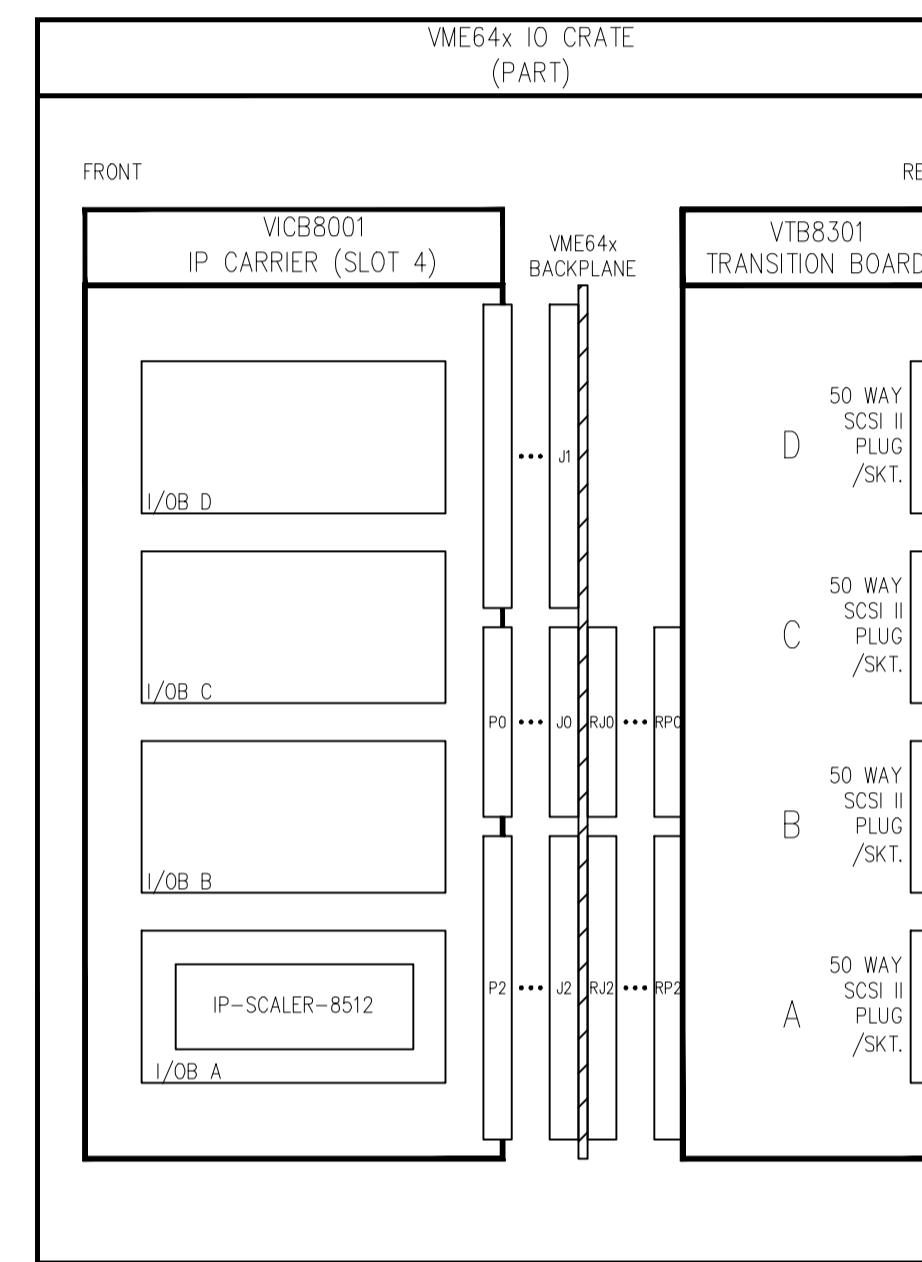
M

SHEET 2 & 3  
PSU REPLACED WITH DUPLEX  
PSU. SLOT 5, PSU  
HEALTHY SIGNALS ADDED  
TO PIM 03

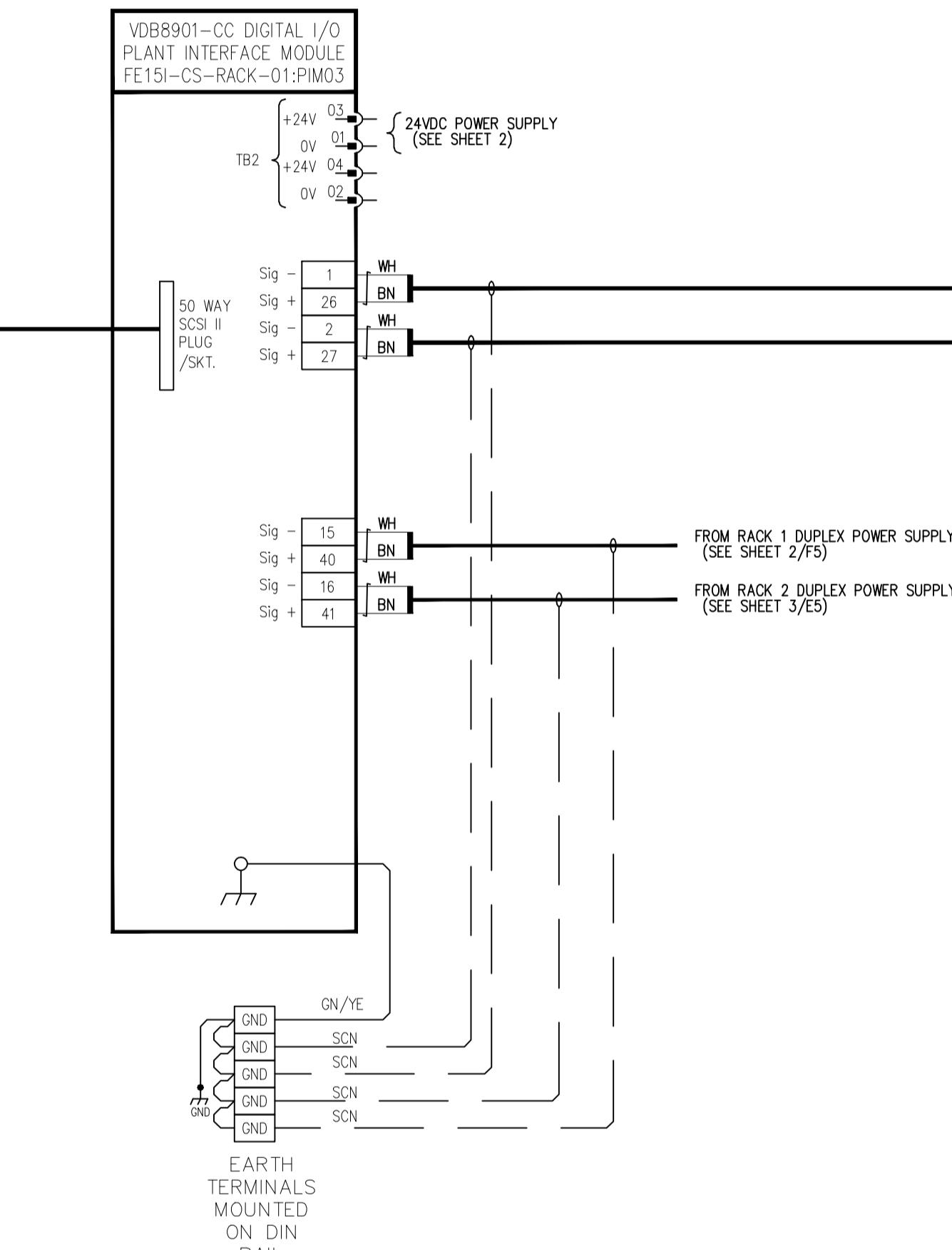
NOTES	
1. FOR ALL ASSOCIATED REFERENCE DRAWINGS / DOCUMENTATION SEE INDEX SHEET 1.	

DIAMOND LIGHT SOURCE LTD.  
DIAMOND HOUSE,  
CHILTON, DIDCOT,  
OXFORDSHIRE, OX11 0DE.STORAGE RING CELL 15  
FE15I FRONT END CONTROL SYSTEM  
HOOK-UP DRAWING

THIS REVISION	TITLE
DRN DATE 27/10/11	A&B
CHK DATE 02/11/11	AFT
APPD DATE 02/11/11	AFT
ORIGINATOR/DATE NGR 10/02/04	DRG STATUS Approved
DRG No. <b>1007149</b>	SHEET 5 OF 24 REVISION <b>L</b>

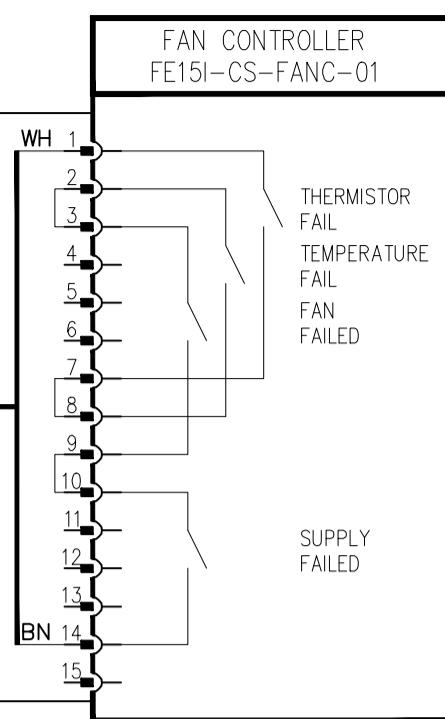


4C-PIM03

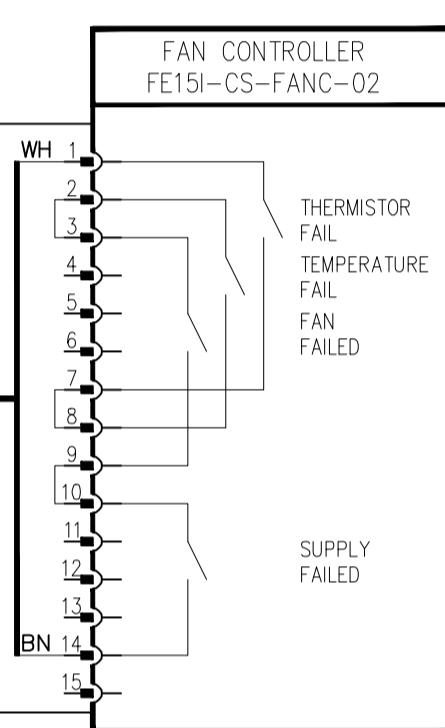


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F15-F154S



FE15I-CS-RACK-02

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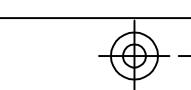
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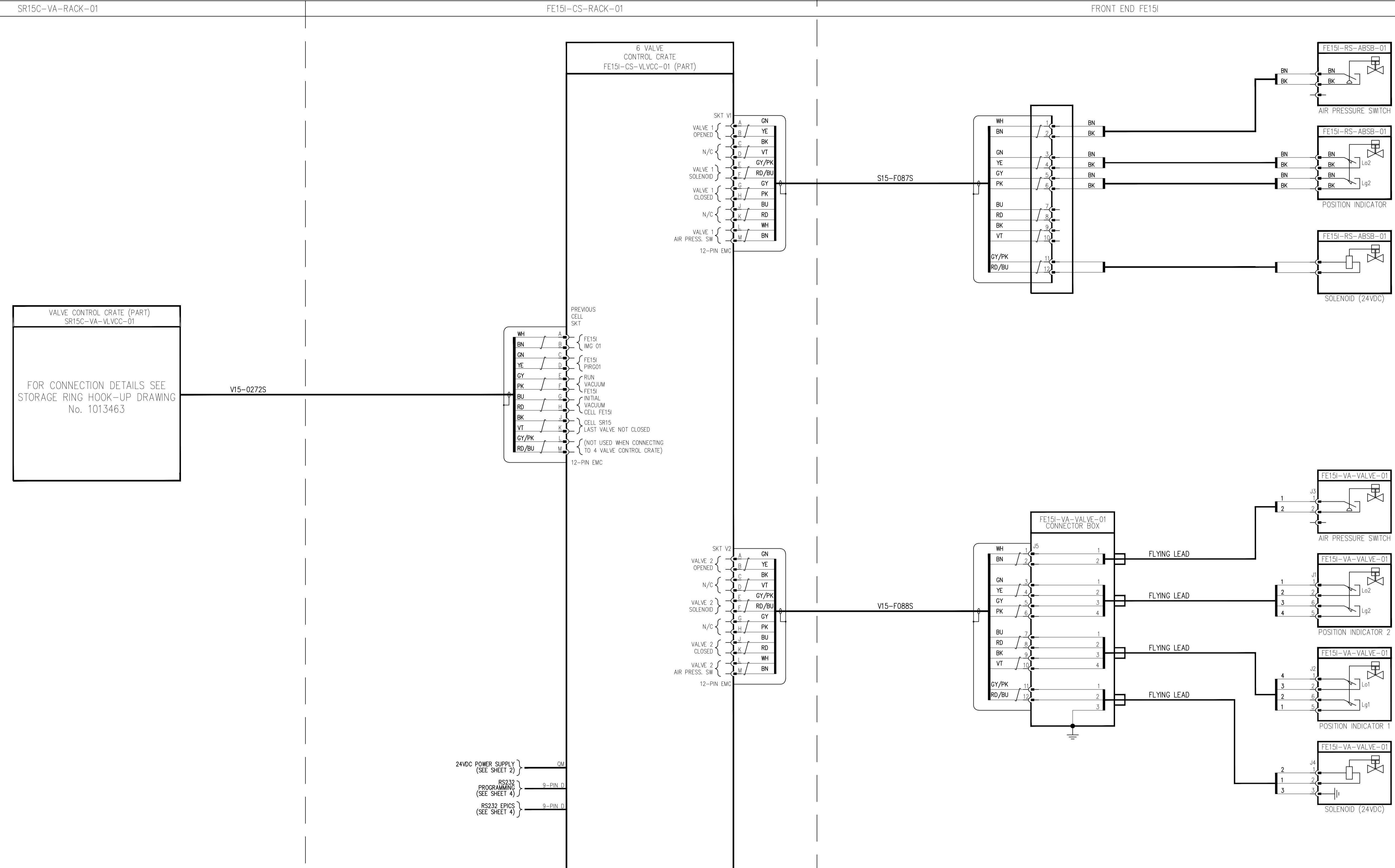
KK

OO



SR15C-VA-RACK-01

FE15I-CS-RACK-01

STORAGE RING CELL 15  
FRONT END FE15I

NOTES  
1. FOR ALL ASSOCIATED REFERENCE DRAWINGS / DOCUMENTATION SEE INDEX SHEET 1.

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DIAMOND HOUSE,  
CHILTON, DIDCOT,  
OXFORDSHIRE, OX11 0DE.

THIS  
REVISION  
DRN A/JB  
DATE 27/10/11  
CHK AFT  
DATE 02/11/11  
APPD AFT  
DATE 02/11/11  
ORIGINATOR/DATE NGR 10/02/04  
DRG STATUS Approved  
DRC No. 1007149  
SHEET 6 OF 24  
REVISION L

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A FIRST ISSUE

B MODS POST RAF  
EENG-FE-RAF-005

C MODS APPLIED FROM  
REVIEW SEE  
EENG-FE-RAF-0006

D TERMINAL NUMBERING  
CORRECTIONS ON  
VARIOUS SHEETS

E IDENTIFICATION  
CORRECTIONS ON  
VARIOUS SHEETS

F ADDED BPPMs

G AS BUILT

H SEE EENG-FE-RAF-0014

I SHEET 9 - FVG-01/02  
(READY O/P)  
TERMINALS WIRED BACK  
TO CIU-01 TERMINALS  
19 AND 20.  
TB-02 ADDED.

J SHEET 7 - GUARD LINE  
A & B PLACED IN  
SERIES, ID INTERLOCK  
ADDED.

K SHEET 20 -  
TERMINALS ON CIU-03  
RENUMBERED SHEET 4

L SHEET 4  
SLOT 3 DELETED, PMC  
EVENT RECEIVER  
ADDED

M SHEET 2 & 3 PSU  
REPLACED WITH DUPLEX  
PSU. SHT 5. PSU  
HEALTHY SIGNALS ADDED  
TO PIM 03

E

F

G

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J

K

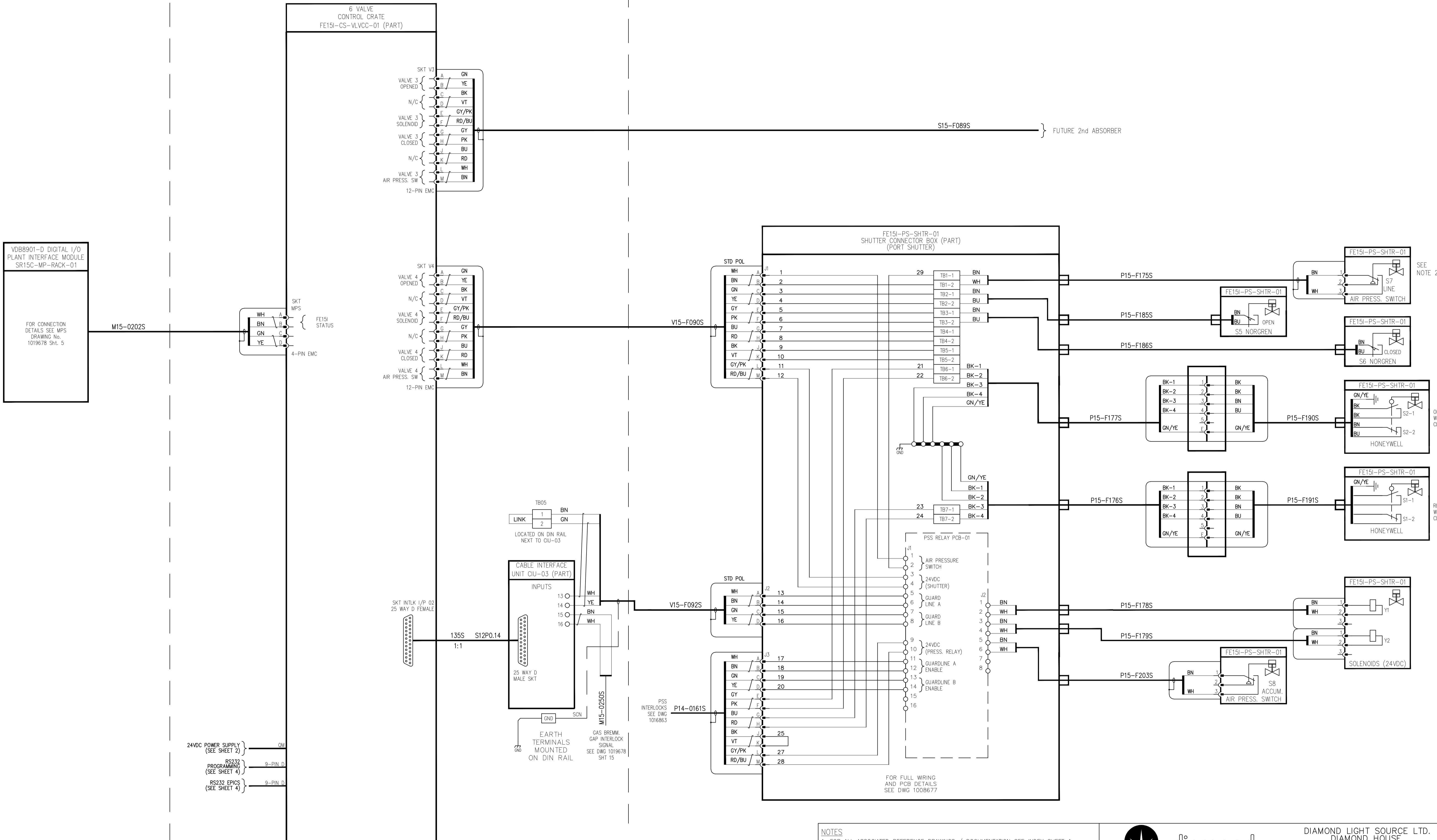
SR15C-CS-CIA-01

FE15I-CS-RACK-01

STORAGE RING CELL 15

FRONT END FE15I

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NOTES  
1. FOR ALL ASSOCIATED REFERENCE DRAWINGS / DOCUMENTATION SEE INDEX SHEET 1.  
2. PRESSURE SWITCHES OPEN ON LOSS OF AIR PRESSURE.



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OXFORDSHIRE, OX11 0DE.

### STORAGE RING CELL 15 FE15I FRONT END CONTROL SYSTEM HOOK-UP DRAWING

Approved

DRG STATUS  
DRC No. 1007149  
SHEET 7 OF 24  
REVISION L

A FIRST ISSUE

B MODS POST RAF EENG-FE-RAF-005

C MODS APPLIED FROM REV. SEE EENG-FE-RAF-0006

D TERMINAL NUMBERING CORRECTIONS ON PIM04

E IDENTIFICATION CORRECTIONS ON VARIOUS SHEETS

F ADDED BPPM'S

G AS BUILT

H SEE EENG-FE-RAF-0014

SHEET 9 - FVG-01/02  
(READY O/P)  
TERMINALS WIRED BACK  
TO CIU-01 TERMINALS  
TB-02 ADDED.  
SHEET 10 - FVG-03/04  
(READY O/P)  
TERMINALS WIRED BACK  
TO CIU-01 TERMINALS  
TB-02 ADDED.

J SHEET 7 - GUARD LINE  
A & B PLACED IN  
SERIES, ID INTERLOCK  
ADDED.

SHEET 20 -  
TERMINALS ON CIU-03  
RENUMBERED SHEET 4

K SHEET 4  
SLOT 3 DELETED, PMC  
EVENT RECEIVER  
ADDED

SHEET 2 & 3 PSU  
REPLACED WITH DUPLEX  
PSU. SHT 5. PSU  
HEALTHY SIGNALS ADDED  
TO PIM 03

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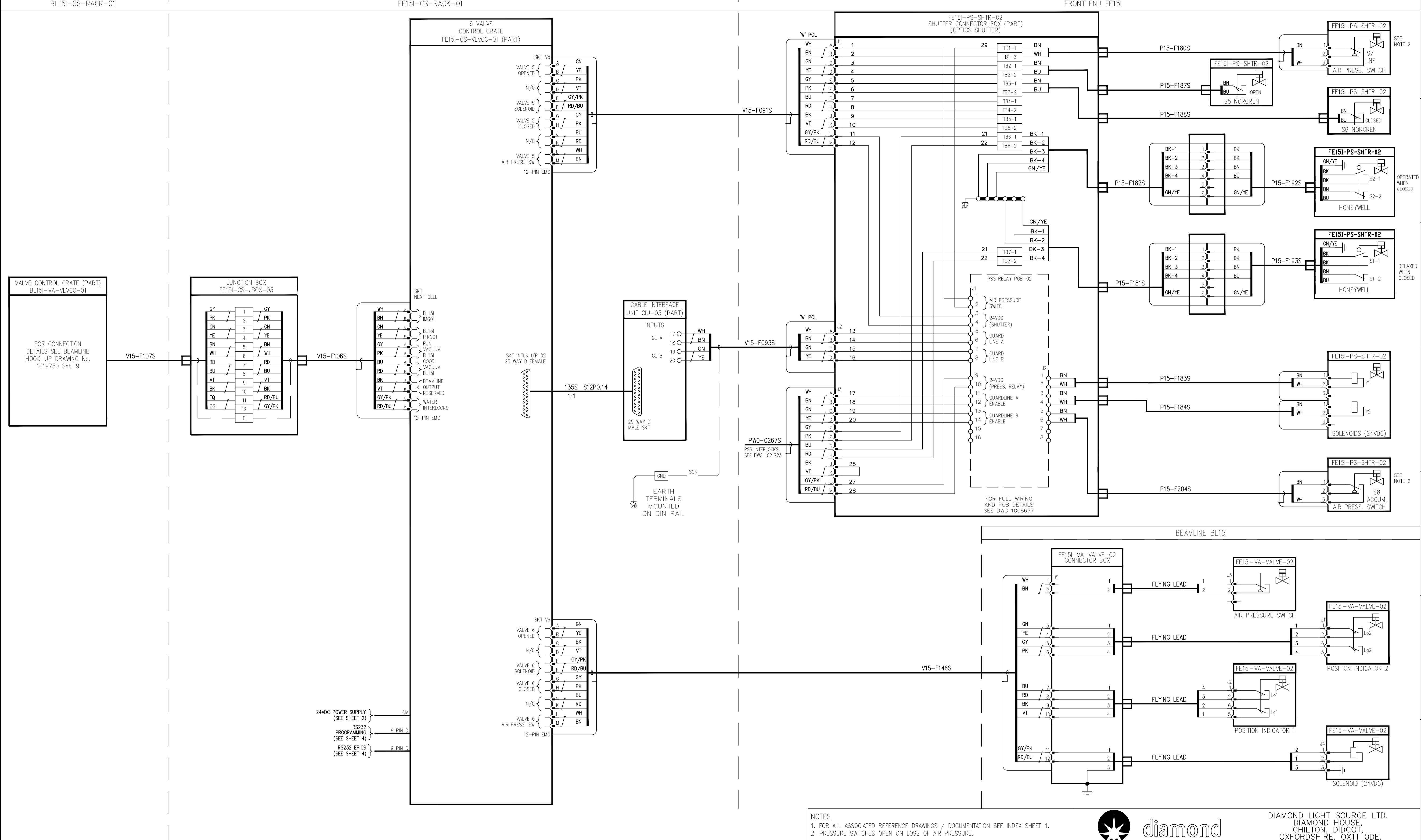
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BL15I-CS-CIA-01  
BL15I-CS-RACK-01SR15C-CS-CIA-01  
FE15I-CS-RACK-01STORAGE RING CELL 15  
FRONT END FE15I

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A

FIRST ISSUE

MODS POST RAF EENG-FE-RAF-005

MODS APPLIED FROM REVIEW SEE EENG-FE-RAF-0006

ADDED PEPMS

IDENTIFICATION CORRECTIONS ON VARIOUS SHEETS

TERMINAL NUMBERING

CORRECTIONS ON PIM04

SEE EENG-FE-RAF-0014

SHEET 9 - FVG-01/02 (READY O/P)  
(TERMINALS WIRED BACK TO CIU-01 TERMINALS 19 AND 20.  
TB-02 ADDED.)SHEET 10 - FVG-03/04 (READY O/P)  
(TERMINALS WIRED BACK TO CIU-01 TERMINALS 21 AND 22.  
TB-02 ADDED.)

AS BUILT

H

SEE EENG-FE-RAF-0014

SHEET 7 - GUARD LINE A &amp; B PLACED IN SERIES, ID INTERLOCK ADDED.

SHEET 10 - TERMINALS ON CIU-03 RENUMBERED. SHEET 4

J

SHEET 4  
SLOT 3 DELETED, PMC EVENT RECEIVER ADDED

L

SHEET 2 & 3  
PSU REPLACED WITH DUPLEX PSU. SH1-5, PSU HEALTHY SIGNALS ADDED TO PIM 03

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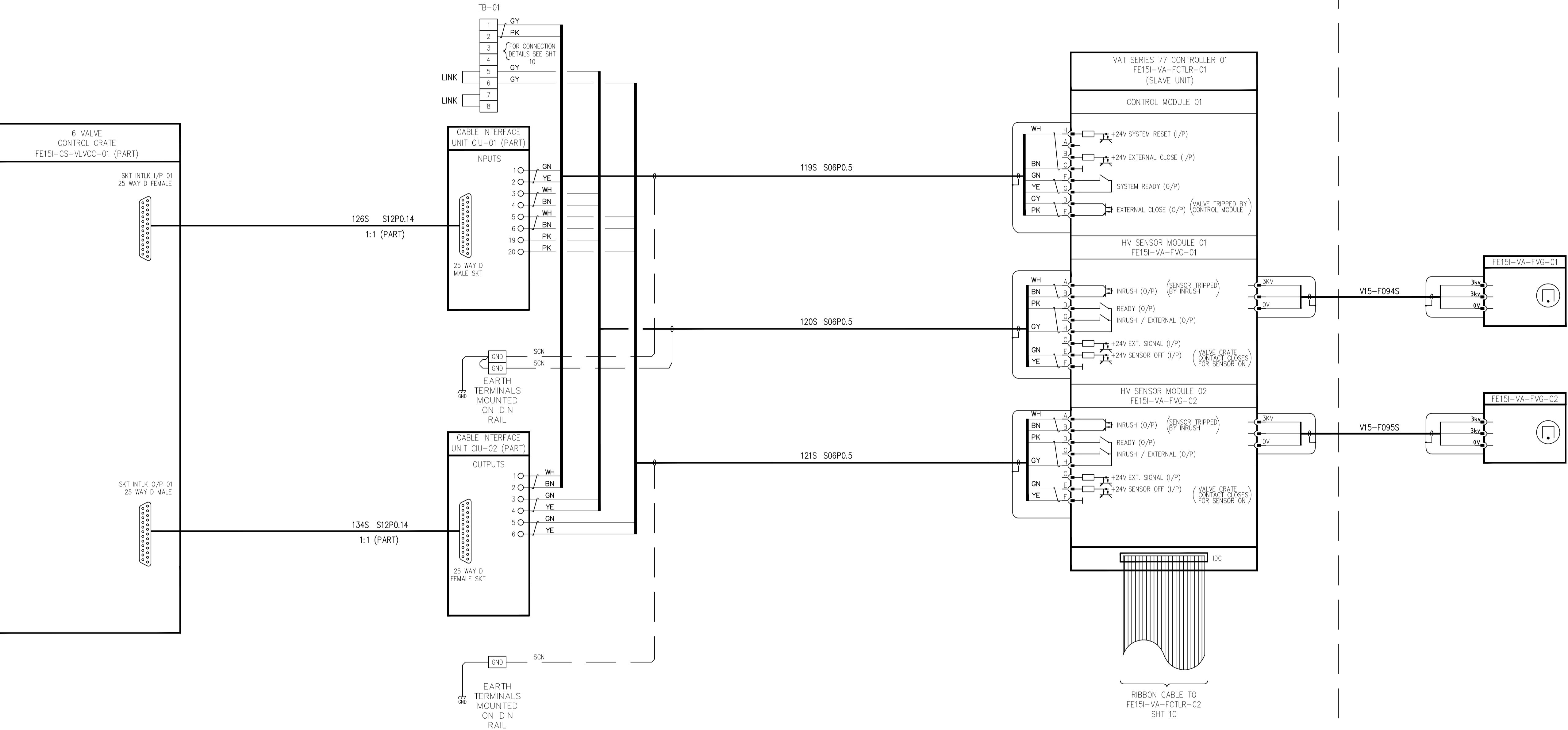
OO

diamond

DIAMOND LIGHT SOURCE LTD.  
DIAMOND HOUSE,  
CHILTON, DIDCOT,  
OXFORDSHIRE, OX11 0DE.THIS REVISION  
DRN AUB DATE 27/10/11  
CHK AFT DATE 02/11/11  
APPD AFT DATE 02/11/11  
ORIGINATOR/DATE NGR 10/02/04  
DRC STATUS Approved  
DRC No. 1007149  
SHEET 8 OF 24 REVISION LSTORAGE RING CELL 15  
FE15I FRONT END CONTROL SYSTEM  
HOOK-UP DRAWING

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A	FIRST ISSUE
B	MODS POST RAF EENG-FE-RAF-005
C	MODS APPLIED FROM REVIEW, SEE EENG-FE-RAF-006
D	TERMINAL NUMBERING CORRECTIONS ON PIM04
E	IDENTIFICATION CORRECTIONS ON VARIOUS SHEETS
F	ADDED PEPMS
G	AS BUILT
H	SEE EENG-FE-RAF-0014



NOTES  
1. FOR ALL ASSOCIATED REFERENCE DRAWINGS / DOCUMENTATION SEE INDEX SHEET 1.



DIAMOND LIGHT SOURCE LTD.  
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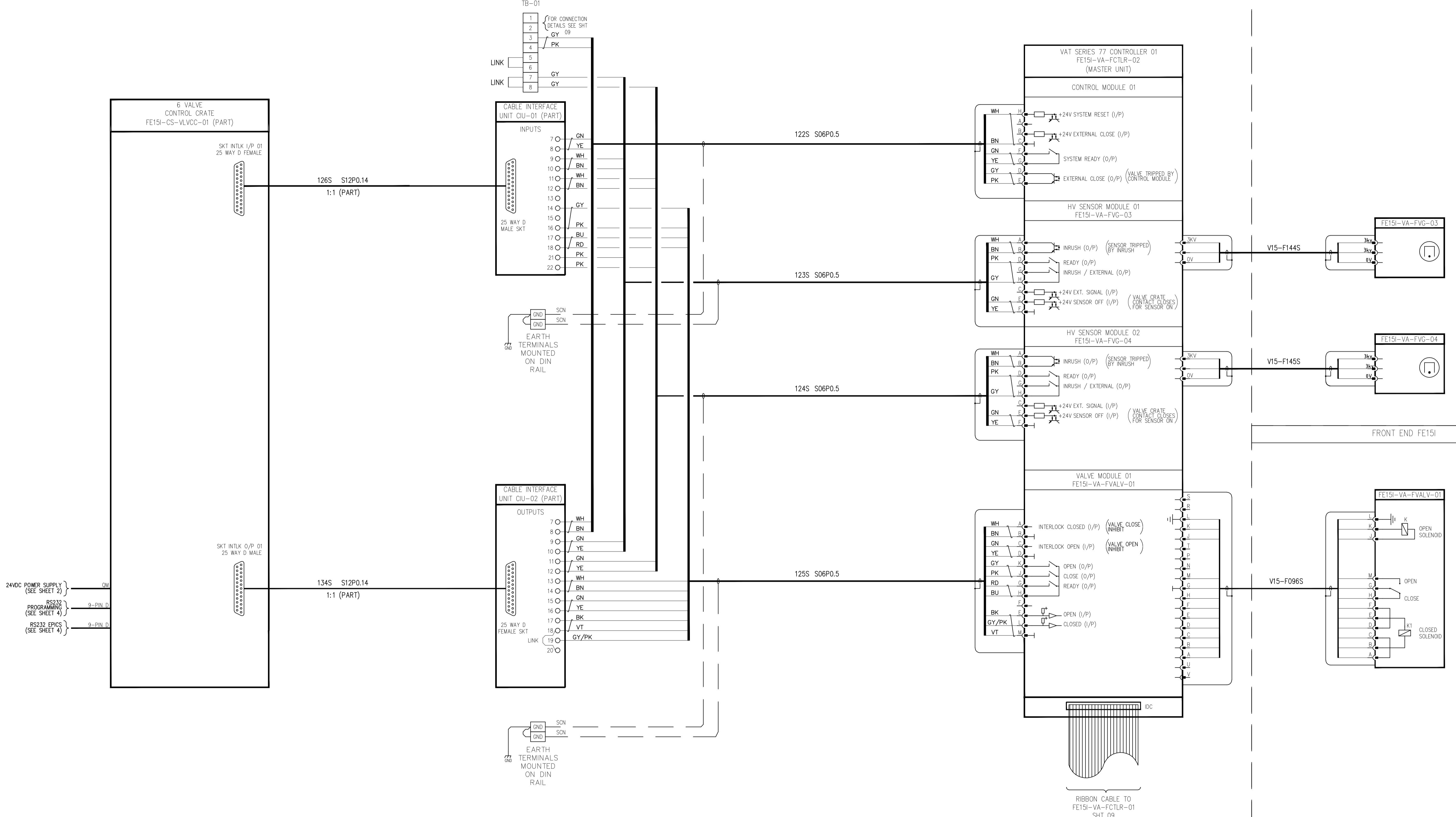
THIS  
REVISION  
DRN A/JB  
DATE 27/10/11  
CHK AFT  
DATE 02/11/11  
APPD AFT  
DATE 02/11/11  
ORIGINATOR/DATE NGR 10/02/04  
DRG STATUS Approved  
DRC No. 1007149  
SHEET 9 OF 24  
REVISION L

TITLE  
STORAGE RING CELL 15  
FE15I FRONT END CONTROL SYSTEM  
HOOK-UP DRAWING

A	
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**A**

FIRST ISSUE

MODS POST RAF  
EENG-FE-RAF-005MODS APPLIED FROM  
EENG-FE-RAF-006TERMINAL NUMBERING  
CORRECTIONS ON PIM04IDENTIFICATION  
CORRECTIONS ON  
VARIOUS SHEETS

ADDED BPPMs

**G**

AS BUILT

**H**

SEE EENG-FE-RAF-0014

**I**SHEET 9 - FVG-01/02  
(READY O/P)  
TERMINALS WIRED BACK  
TO CIU-01 TERMINALS  
19 AND 20.  
TB-02 ADDED.SHEET 10 - FVG-03/04  
(READY O/P)  
TERMINALS WIRED BACK  
TO CIU-01 TERMINALS  
21 AND 22.  
TB-02 ADDED.**J**SHEET 7 - GUARD LINE  
A & B PLACED IN  
SERIES, ID INTERLOCK  
ADDED.SHEET 20 -  
TERMINALS ON CIU 03  
RENUMBERED SHEET 4**K**SHEET 4  
SLOT 3 DELETED, PMC  
EVENT RECEIVER  
ADDED**L**SHEET 2 &  
3 PSU  
REPLACED WITH DUPLEX  
PSU. SHT 5. PSU  
HEALTHY SIGNALS ADDED  
TO PIM 03

NOTES	
1. FOR ALL ASSOCIATED REFERENCE DRAWINGS / DOCUMENTATION SEE INDEX SHEET 1.	



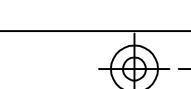
diamond

DIAMOND LIGHT SOURCE LTD.  
DIAMOND HOUSE,  
CHILTON, DIDCOT,  
OXFORDSHIRE, OX11 0DE.THIS  
REVISIONDRN  
DATE  
CHK  
DATE  
APPD  
DATEA/J  
27/10/11  
AFT  
02/11/11  
AFT  
02/11/11ORIGINATOR/DATE  
NGR  
10/02/04DRG STATUS  
**Approved**DRC No.  
**1007149**SHEET  
10 OF 24  
**L**

AUTOCAD

REVISION  
10 OF 24  
**L**

K



SR15C-CS-CIA-01

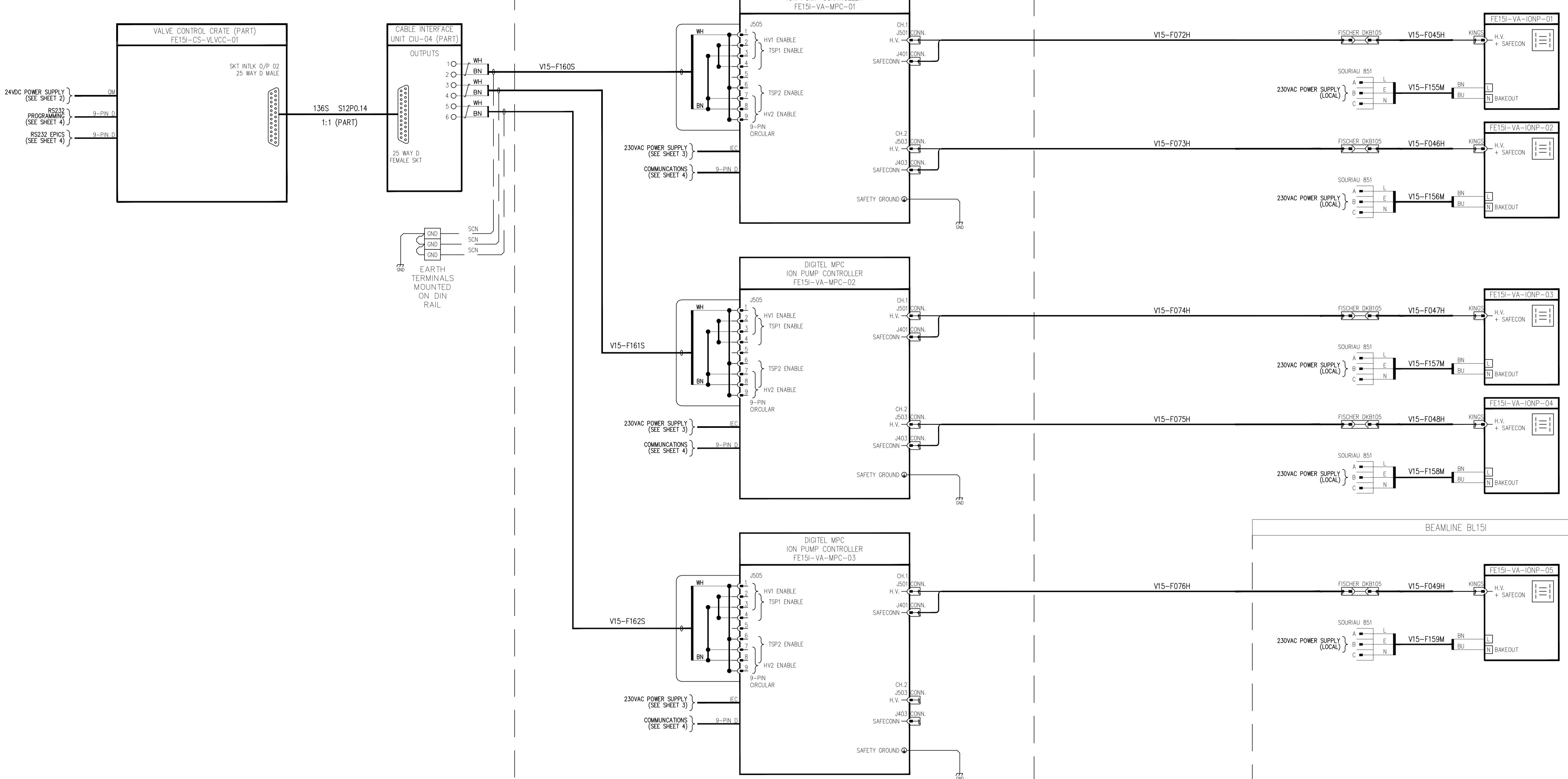
FE15I-CS-RACK-01

FE15I-CS-RACK-02

STORAGE RING CELL 15

FRONT END FE15I

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### STORAGE RING CELL 15 FE15I FRONT END CONTROL SYSTEM HOOK-UP DRAWING

THIS  
REVISIONDRN  
DATEA/JB  
27/10/11CHK  
DATEAFT  
02/11/11APPD  
DATEAFT  
02/11/11

ORIGINATOR/DATE

NR

10/02/04

DRG STATUS

Approved

DRC No.

1007149

SHEET

11 OF 24

REVISION

L

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A

FIRST ISSUE

B

MODS POST RAF

EENG-FE-RAF-005

C

MODS APPLIED FROM

EENG-FE-RAF-006

D

TERMINAL NUMBERING

CORRECTIONS ON

VARIOUS SHEETS

E

IDENTIFICATION

CORRECTIONS ON

VARIOUS SHEETS

F

ADDED BPPMs

G

AS BUILT

H

SEE EENG-FE-RAF-0014

I

-

SHEET 9 - FVG-01/02

(READY O/P)

TERMINALS WIRED BACK

TO CIU-01 TERMINALS

19 AND 20.

TB-02 ADDED.

SHEET 10 - FVG-03/04

(READY O/P)

TERMINALS WIRED BACK

TO CIU-01 TERMINALS

21 AND 22.

TB-02 ADDED.

J

SHEET 7 - GUARD LINE

A &amp; B PLACED IN

SERIES, ID INTERLOCK

ADDED.

SHEET 20 -

TERMINALS ON CIU-03

RENUMBERED SHEET 4

K

SHEET 4

SLOT 3 DELETED, PMC

EVENT RECEIVER

ADDED

L

SHEET 2 &amp;

3 PSU

REPLACED WITH DUPLEX

PSU. SH1 5. PSU

HEALTHY SIGNALS ADDED

TO PIM 03

D

E

F

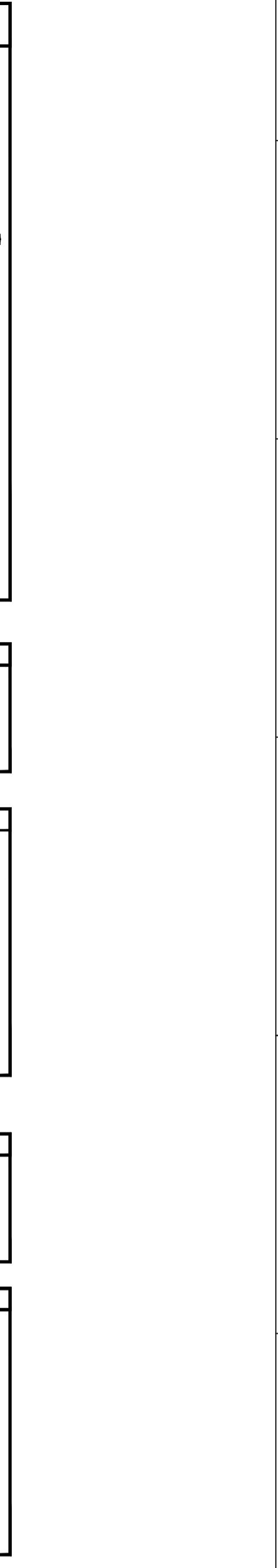
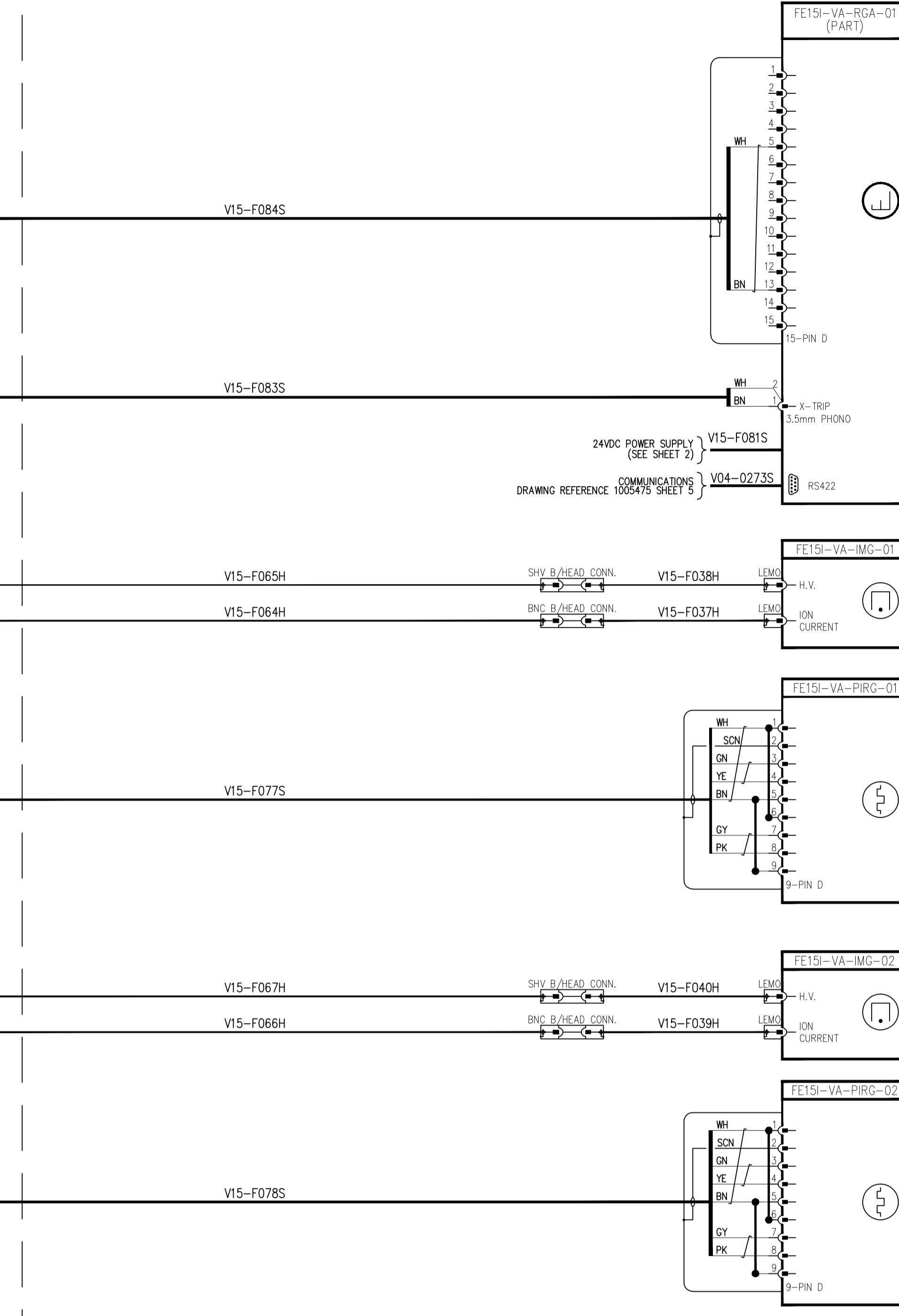
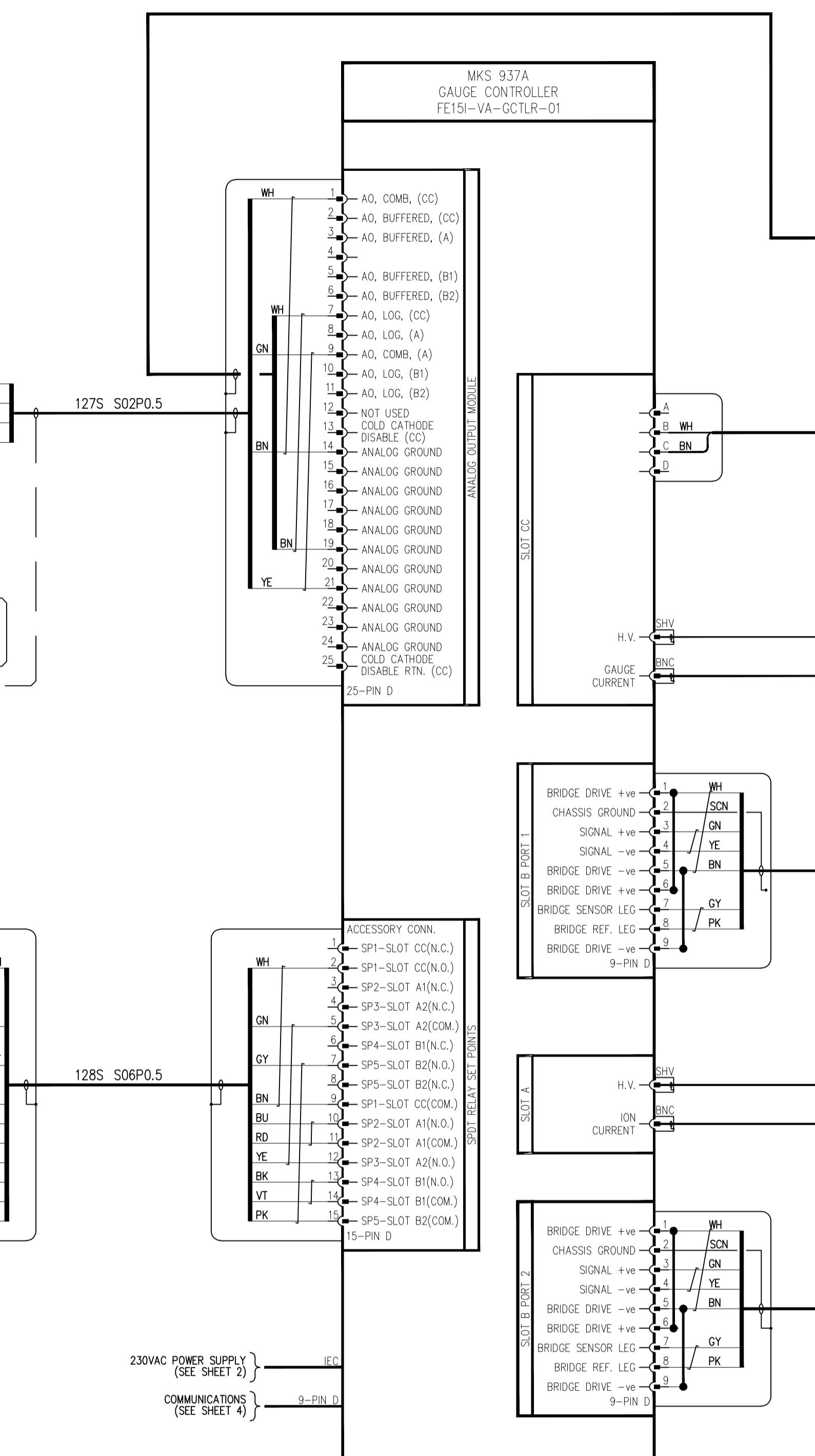
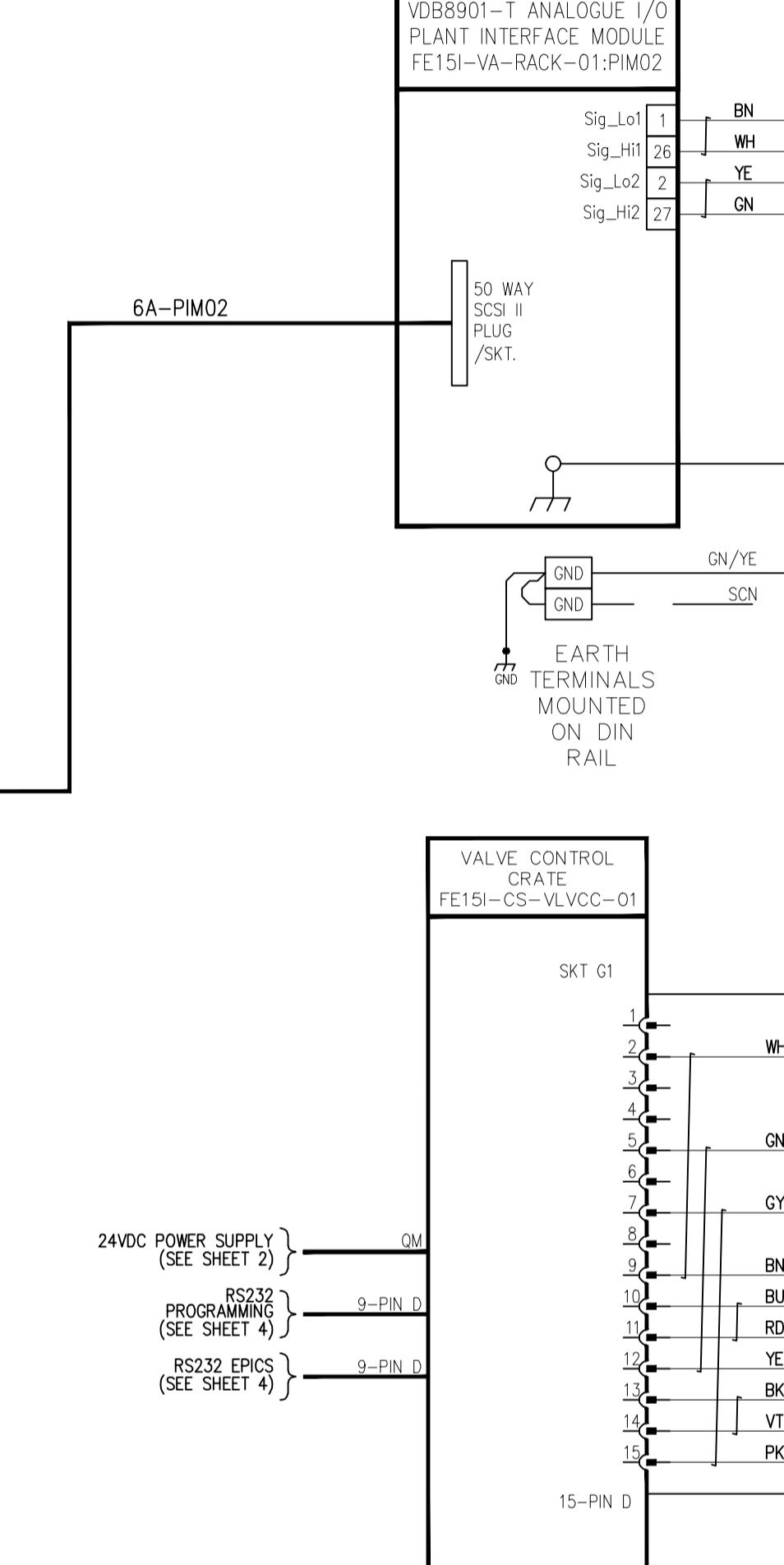
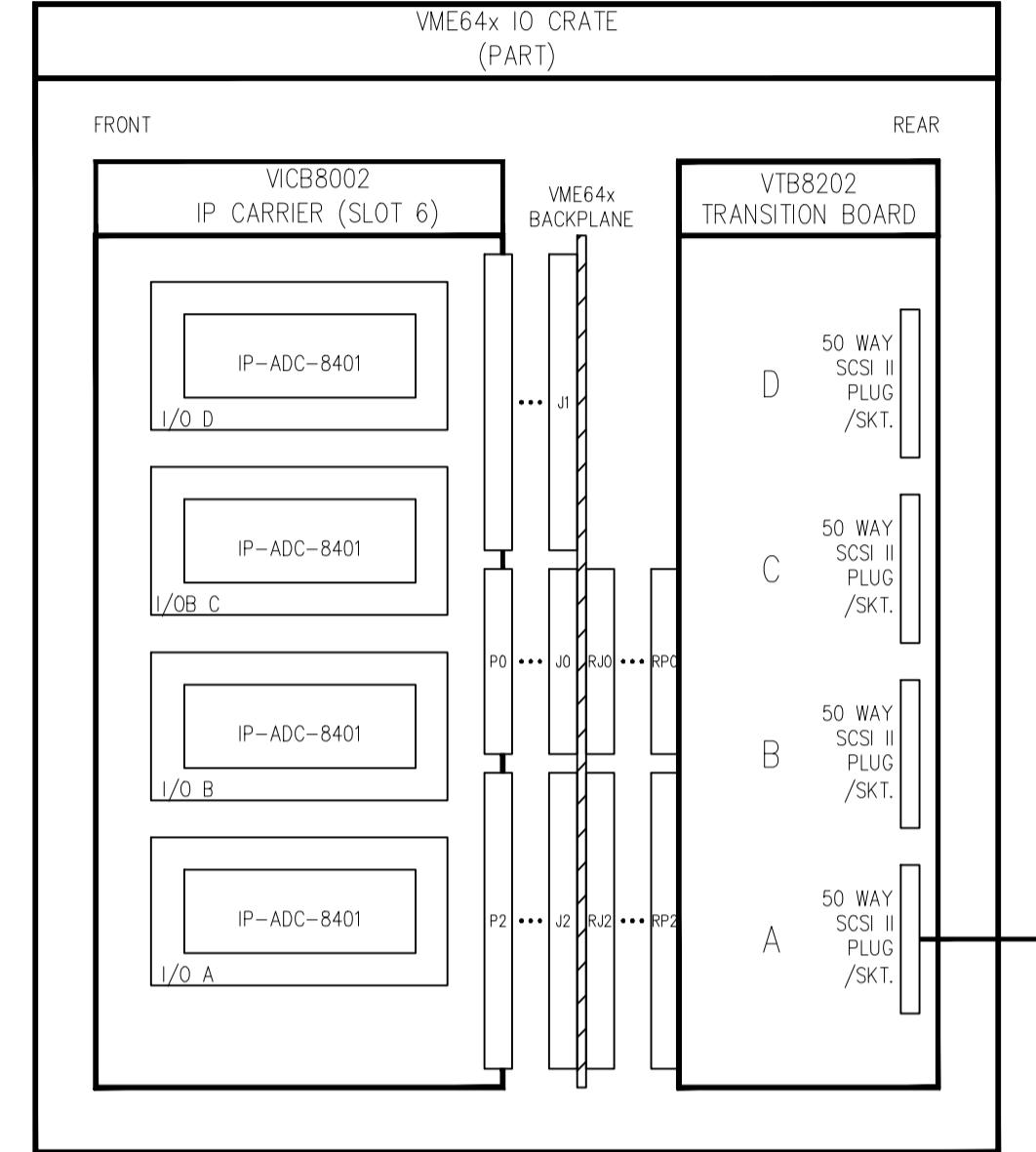
G

H

J

K

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FIRST ISSUE

B

MODS POST RAF  
EENG-FE-RAF-005

C

MODS APPLIED FROM  
REVIEW SEE  
EENG-FE-RAF-0006

D

TERMINAL NUMBERING  
CORRECTIONS ON  
VARIOUS SHEETS

E

IDENTIFICATION  
CORRECTIONS ON  
VARIOUS SHEETS

F

ADDED PBPM'S

G

AS BUILT

H

SEE EENG-FE-RAF-0014

I

SHEET 9 - FVG-01/02  
(READY O/P)  
TERMINALS WIRED BACK  
TO CIU-01 TERMINALS  
19 AND 20.  
TB-02 ADDED.SHEET 10 - FVG-03/04  
(READY O/P)  
TERMINALS WIRED BACK  
TO CIU-01 TERMINALS  
21 AND 22.  
TB-02 ADDED.

J

SHEET 7 - GUARD LINE  
A & B PLACED IN  
SERIES, ID INTERLOCK  
ADDED.SHEET 20 -  
TERMINALS ON CIU-03  
RENUMBERED SHEET 4

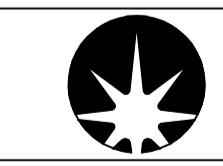
K

SHEET 4  
SLOT 3 DELETED, PMC  
EVENT RECEIVER  
ADDED

L

SHEET 2 & 3  
PSU  
REPLACED WITH DUPLEX  
PSU, SH1 5, PSU  
HEALTHY SIGNALS ADDED  
TO PI M 03

NOTES  
1. FOR ALL ASSOCIATED REFERENCE DRAWINGS / DOCUMENTATION SEE INDEX SHEET 1.



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OXFORDSHIRE, OX11 0DE.THIS  
REVISION

TITLE

STORAGE RING CELL 15  
FE15I FRONT END CONTROL SYSTEM  
HOOK-UP DRAWING

DRG STATUS

Approved

DRN

A/JB

DATE

27/10/11

CHK

AFT

DATE

02/11/11

APPD

AFT

DATE

02/11/11

ORIGINATOR/DATE

NGR

DATE

10/02/04

DRC No.

1007149

SHEET

12 OF 24

REVISION

L

A

B

C

D

E

F

G

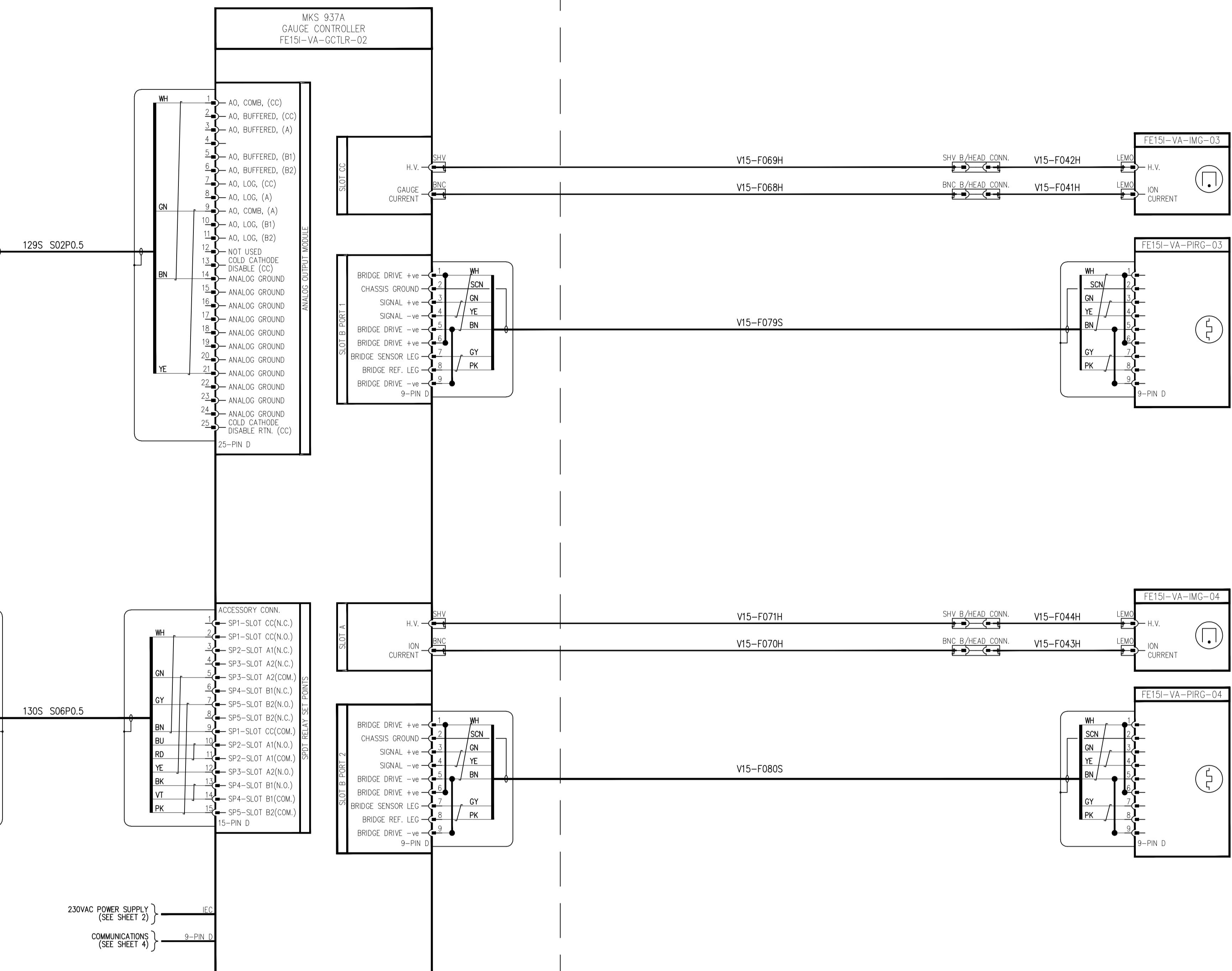
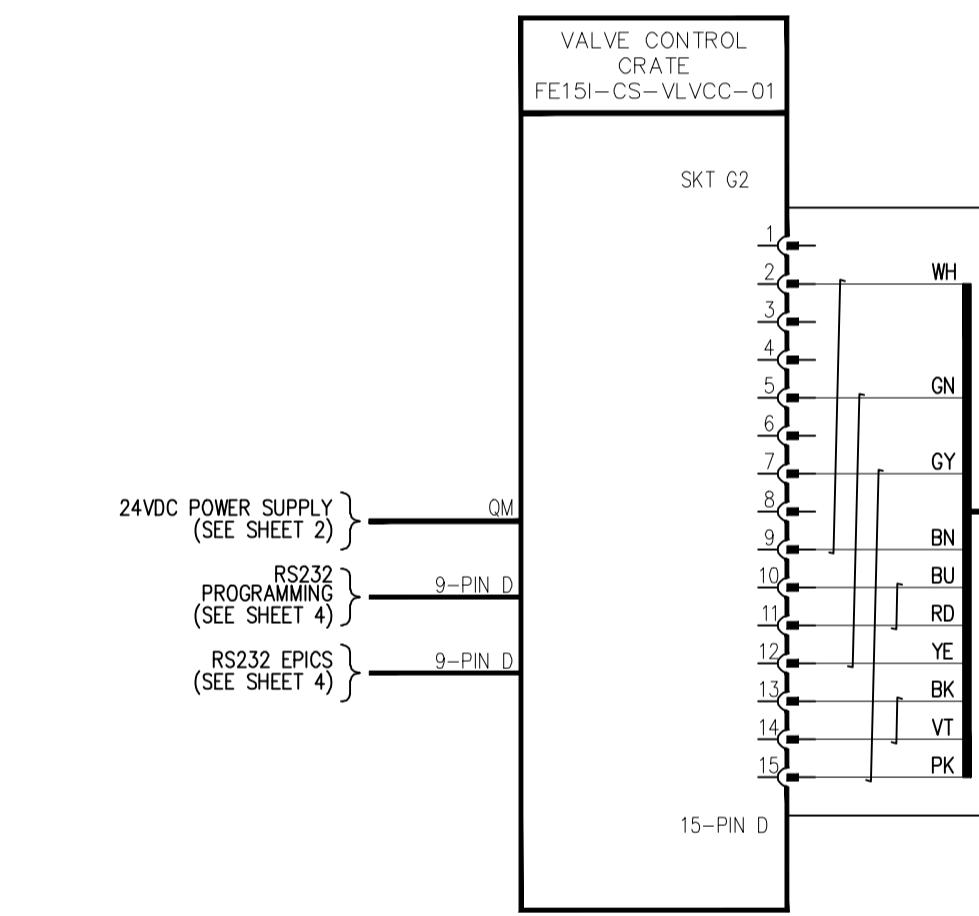
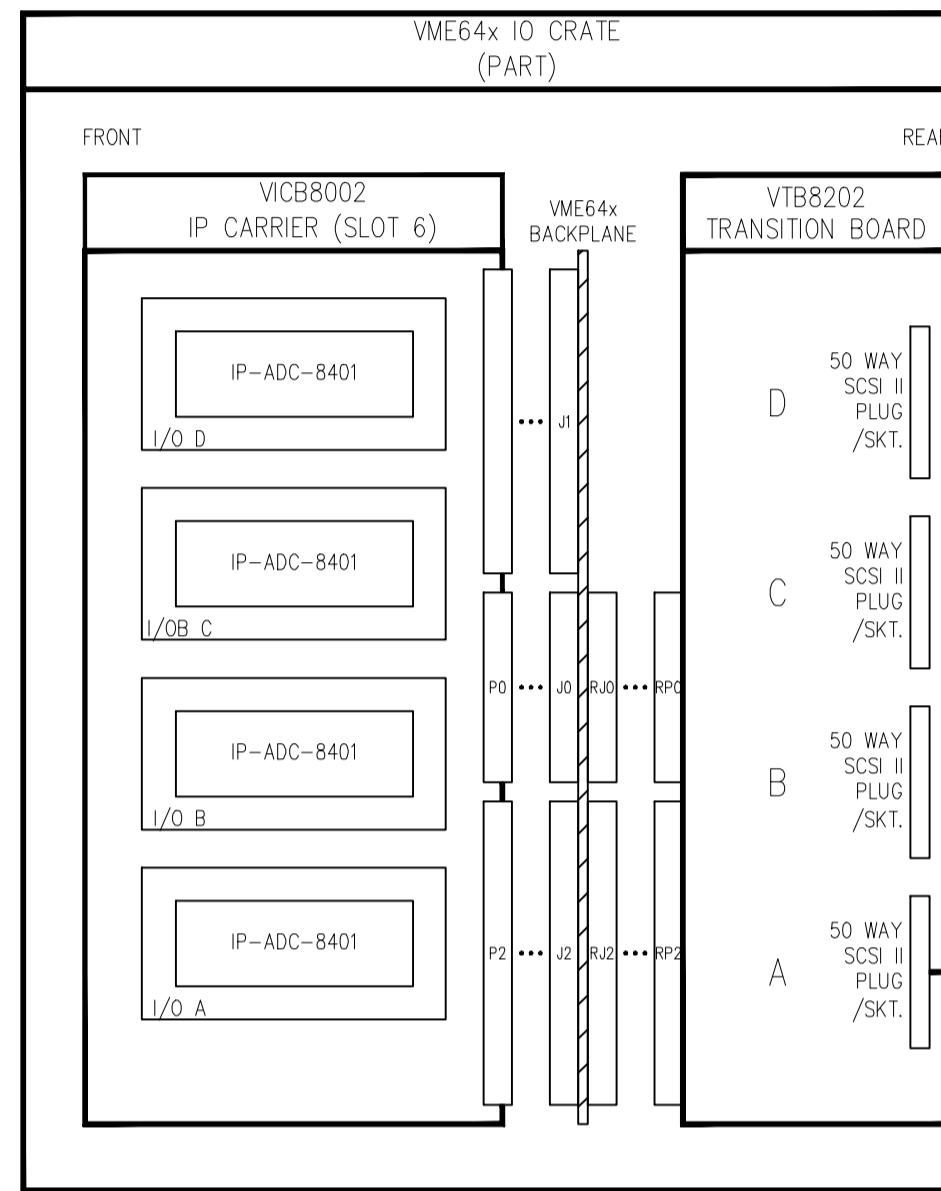
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I

J

K

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FIRST ISSUE

B

MODS POST RAF EENG-FE-RAF-005

C

MODS APPLIED FROM REVIEW SEE EENG-FE-RAF-0006

D

TERMINAL NUMBERING CORRECTIONS

E

IDENTIFICATION CORRECTIONS ON VARIOUS SHEETS

F

ADDED PBPM's

G

AS BUILT

H

SEE EENG-FE-RAF-0014

I

SHEET 9 - FVG-01/02

(READY O/P) TERMINALS WIRED BACK

TO CIU-01 TERMINALS

19 AND 20.

TB-02 ADDED.

SHEET 10 - FVG-03/04

(READY O/P) TERMINALS WIRED BACK

TO CIU-01 TERMINALS

21 AND 22.

TB-02 ADDED.

J

SHEET 7 - GUARD LINE

A &amp; B PLACED IN

SERIES, ID INTERLOCK

ADDED.

SHEET 20 -

TERMINALS ON CIU-03

RENUMBERED SHEET 4

K

SHEET 4

SLOT 3 DEFLETED, PMC

EVENT RECEIVER

ADDED

L

SHEET 2 &amp; 3 PSU

REPLACED WITH DUPLEX

PSU SHT 5. PSU

HEALTHY SIGNALS

ADDED

TO PIM 03

## NOTES

1. FOR ALL ASSOCIATED REFERENCE DRAWINGS / DOCUMENTATION SEE INDEX SHEET 1.



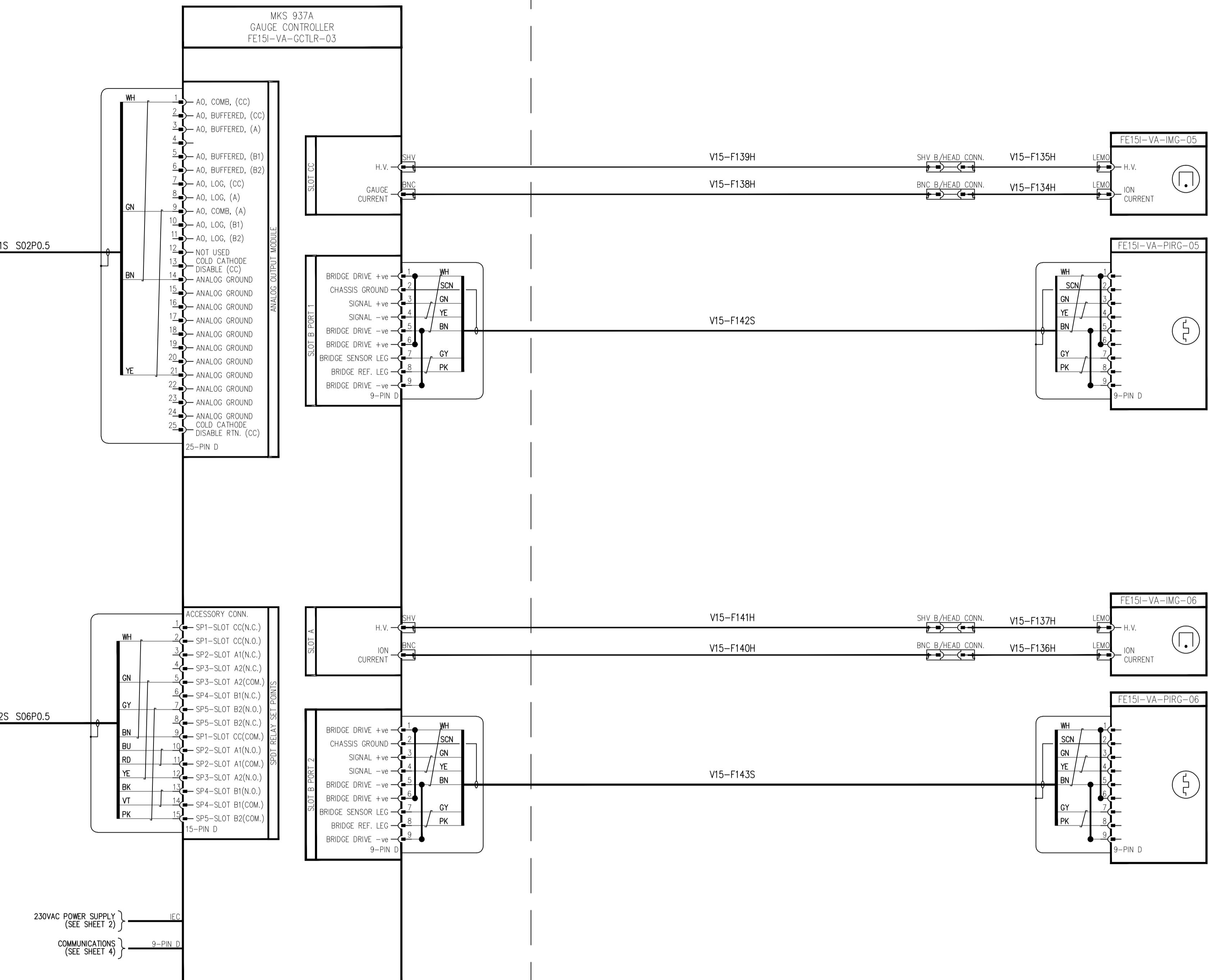
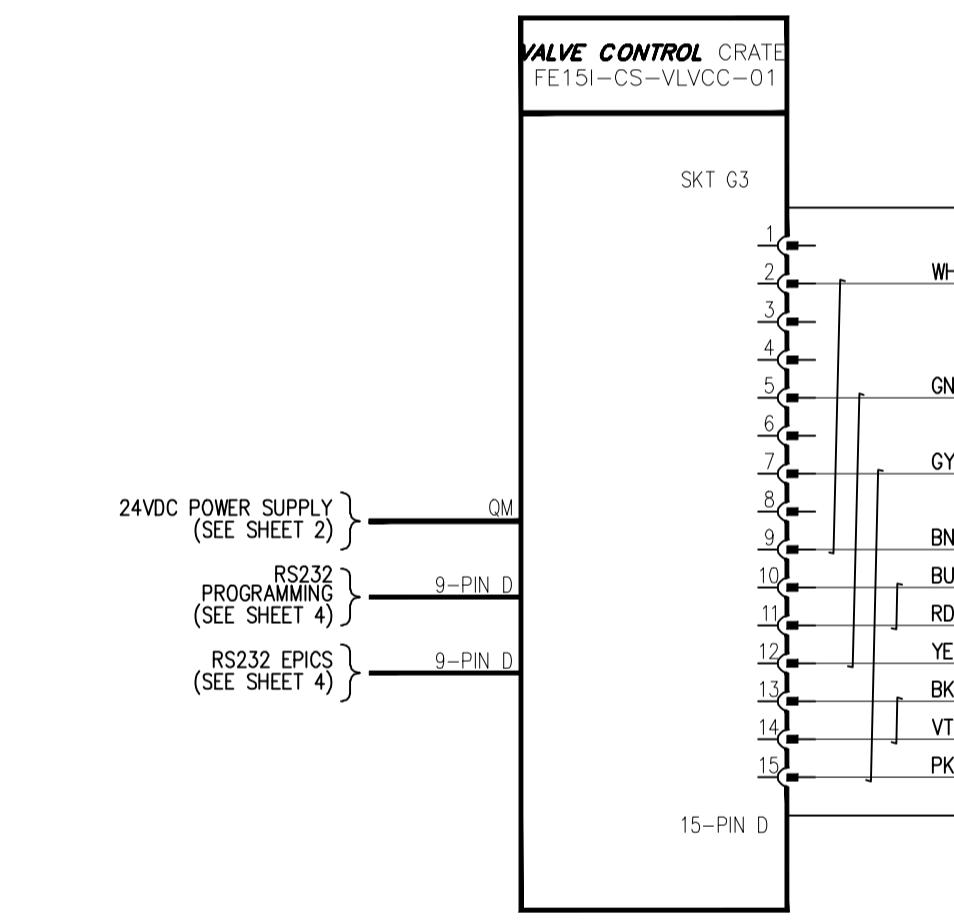
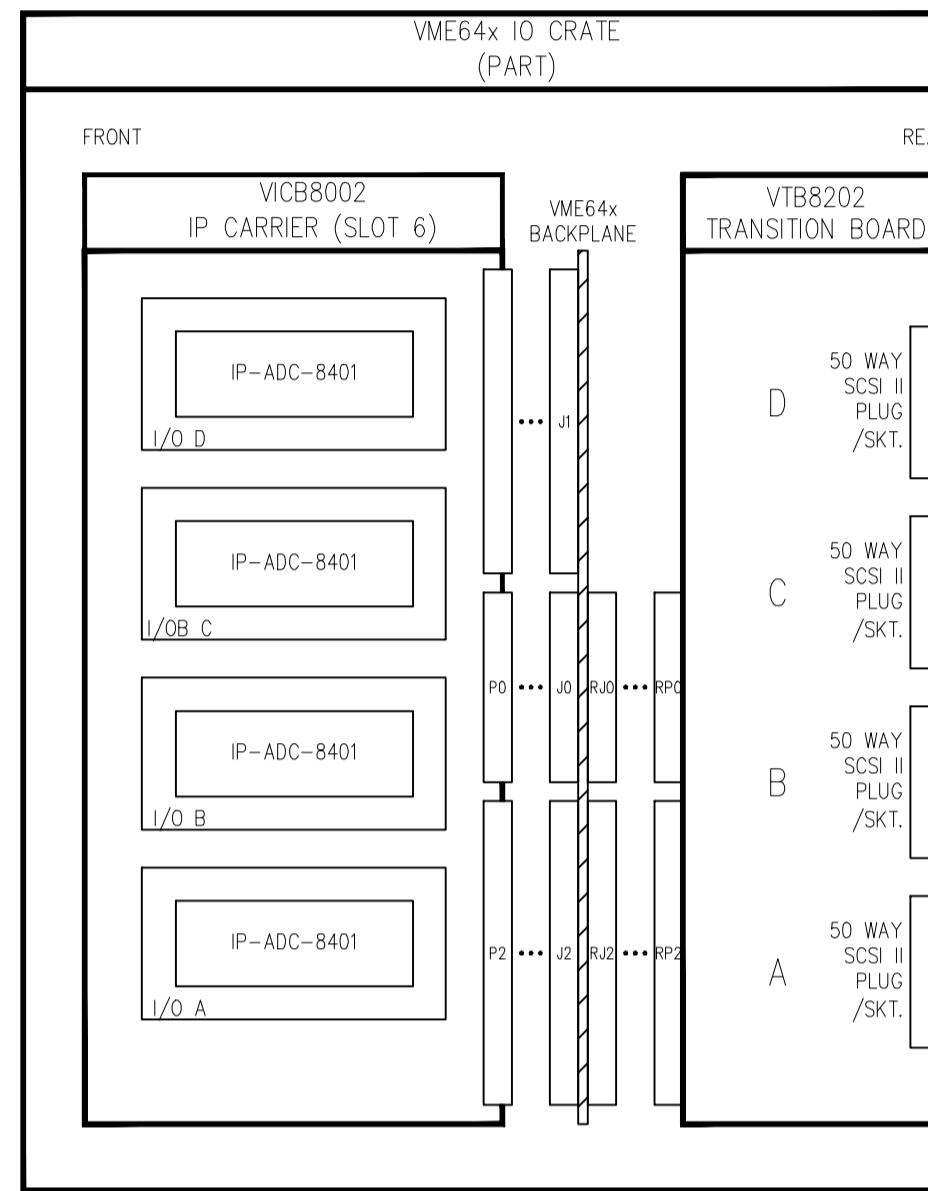
diamond

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DIAMOND HOUSE,  
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OXFORDSHIRE, OX11 0DE.THIS REVISION  
DRN AUB DATE 27/10/11  
CHK AFT DATE 02/11/11  
APPD AFT DATE 02/11/11  
ORIGINATOR/DATE NGR 10/02/04 DRG STATUS Approved  
DRC No. 1007149 SHEET 13 OF 24 REVISION L

AUTOCAD

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**THIS REVISION**  
DRN A1B  
DATE 27/10/11  
CHK AFT  
DATE 02/11/11  
APPD AFT  
DATE 02/11/11  
ORIGINATOR/DATE NGR 10/02/04  
DRG STATUS Approved  
DRC No. 1007149  
SHEET 14 OF 24  
REVISION L

**A**

FIRST ISSUE

MODS POST RAF EENG-FE-RAF-005

MODS APPLIED FROM REVIEW SEE EENG-FE-RAF-0006

TERMINAL NUMBERING CORRECTIONS ON VARIOUS SHEETS

SEE EENG-FE-RAF-0014

SHEET 9 - FVG-01/02

(READY O/P)

TERMINALS WIRED BACK

TO CIU-01 TERMINALS

19 AND 20.

TB-02 ADDED.

SHEET 10 - FVG-03/04

(READY O/P)

TERMINALS WIRED BACK

TO CIU-01 TERMINALS

21 AND 22.

TB-02 ADDED.

SHEET 7 - GUARD LINE

A &amp; B PLACED IN

SERIES, ID INTERLOCK

ADDED.

SHEET 20 -

TERMINALS ON CIU-03

RENUMBERED SHEET 4

SHEET 4

SLOT 3 DELETED, PMC

EVENT RECEIVER

ADDED

SHEET 2 &amp; 3 PSU

REPLACED WITH DUPLEX

PSU. SHT 5. PSU

HEALTHY SIGNALS ADDED

TO PIM 03

E

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J

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FE15I-CS-RACK-01

SR15C-CS-CIA-01

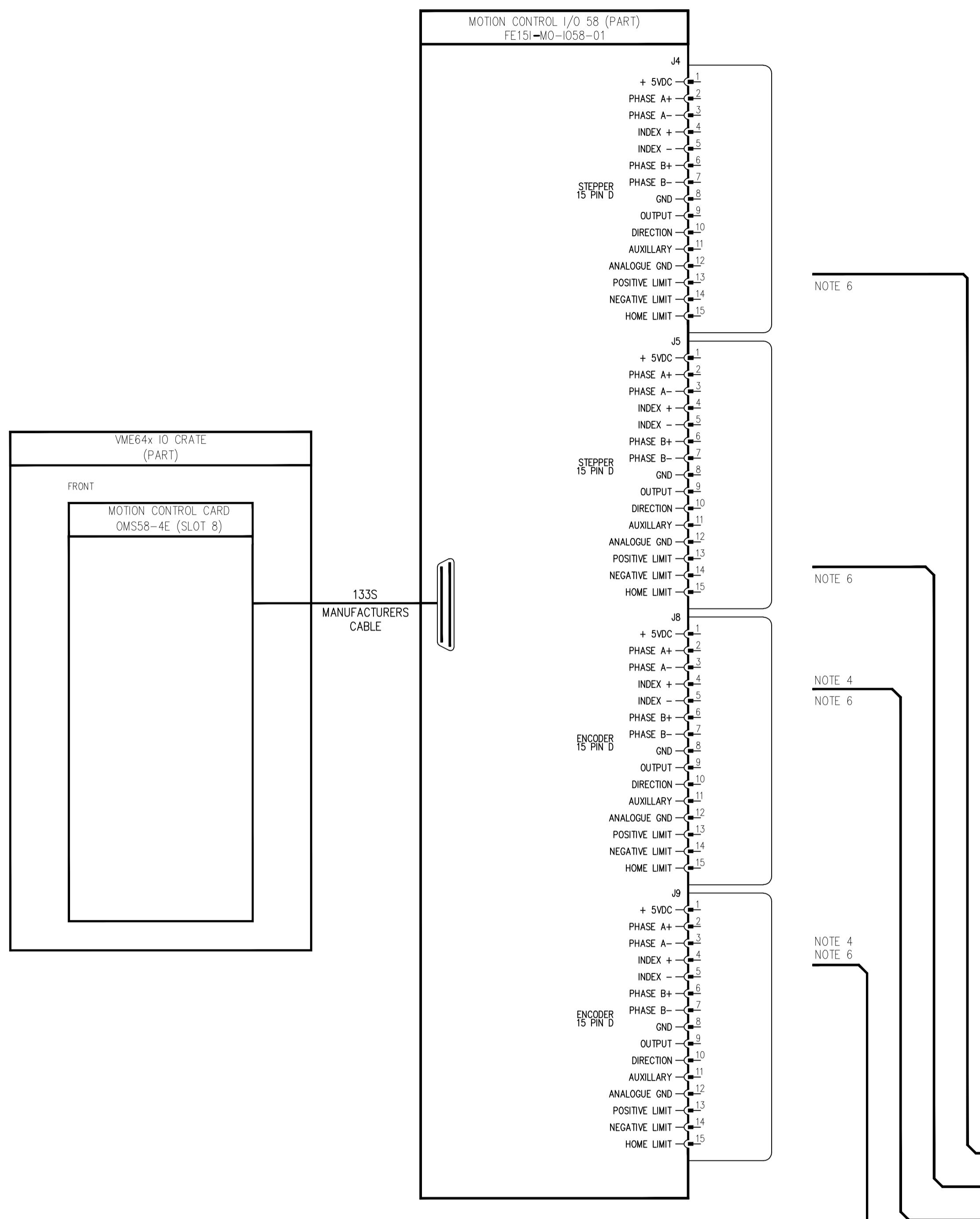
FE15I-CS-RACK-02

STORAGE RING CELL 15

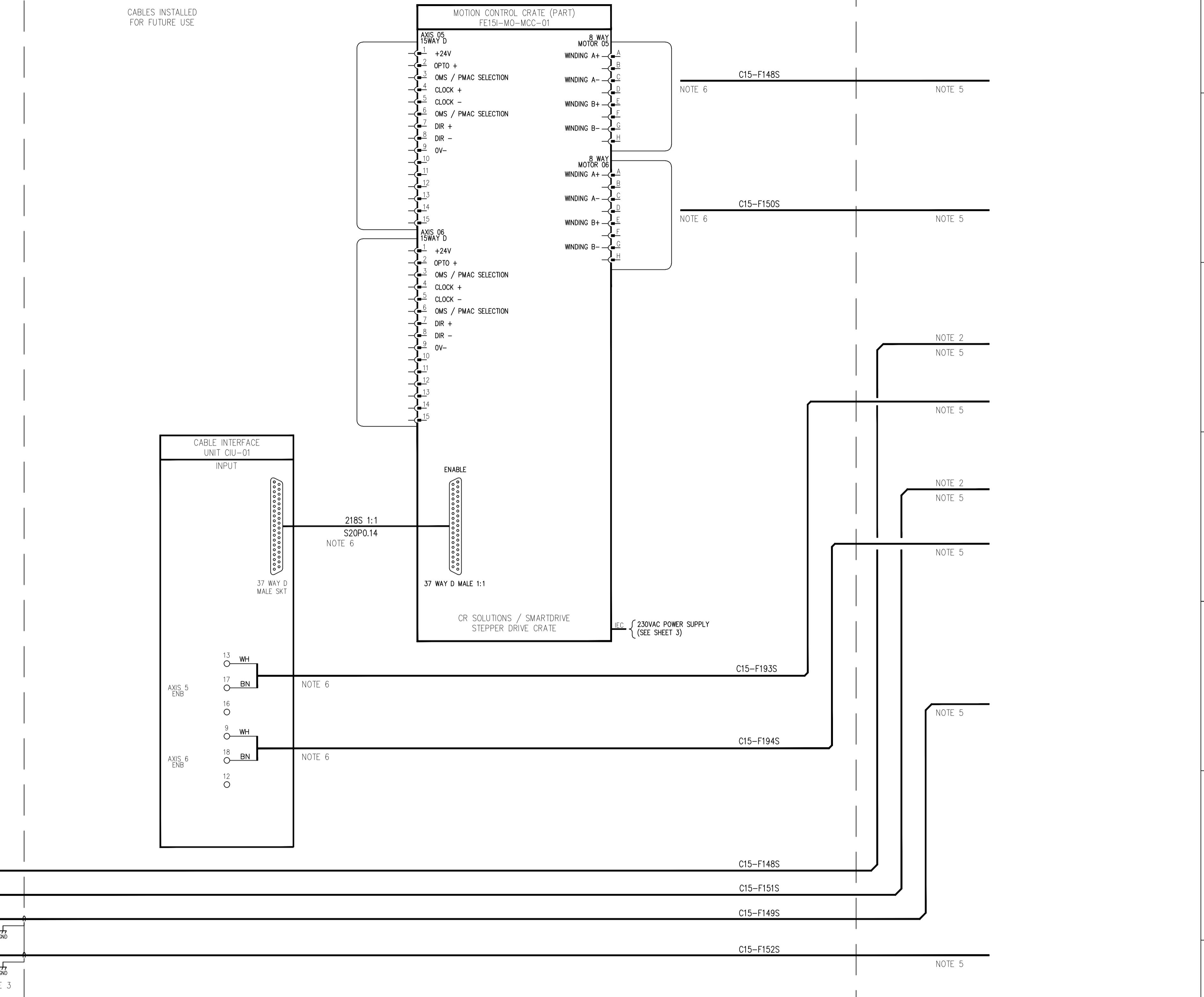
FRONT END FE15I

BEAM POSITION MONITOR FE15I-DI-PBPM-01

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CABLES INSTALLED FOR FUTURE USE



**NOTE:**  
 1. FOR ALL ASSOCIATED REFERENCE DRAWINGS / DOCUMENTATION SEE INDEX SHEET 1.  
 2. USE DUAL ENTRY BACKSHELL.  
 3. CLAMP CABLE SCREEN TO GROUND AT ENTRY TO RACK ENCLOSURE.  
 4. ADD CABLES FOR FUTURE XY TABLE IN CABLE TRAYS BETWEEN RACKS 01 & 02. CABLE NO's F147 TO F152. SEE CABLE SCHEDULE FOR DUTY.  
 5. CABLES INSTALLED LEFT UNTERMINATED IN CABLE DUCT.  
 6. CABLES INSTALLED LEFT UNTERMINATED ON TRAY UNDER RACKS.

**A**

FIRST ISSUE

MODS POST RAF EENG-FE-RAF-005

C

MODS APPLIED FROM REVIEW SEE EENG-FE-RAF-0006

D

TERMINAL NUMBERING CORRECTIONS ON PIM04

E

IDENTIFICATION CORRECTIONS ON VARIOUS SHEETS

F

ADDED PBPM's

G

AS BUILT

H

SEE EENG-FE-RAF-0014

I

SHEET 9 -FVG-01/02 (READY O/P) TERMINALS WIRED BACK TO CIU-01 TERMINALS 19 AND 20.

TB-02 ADDED. SHEET 10 -FVG-03/04 (READY O/P) TERMINALS WIRED BACK TO CIU-01 TERMINALS 21 AND 22. TB-02 ADDED.

J

SHEET 7 -GUARD LINE A &amp; B PLACED IN SERIES, ID INTERLOCK ADDED.

SHEET 20 - TERMINALS ON CIU-03 RENUMBERED SHEET 4

K

SHEET 4 SLOT 3 DELETED, PMC EVENT RECEIVER ADDED

L

SHEET 2 &amp; 3 PSU REPLACED WITH DUPLEX PSU. SHT 5. PSU HEALTHY SIGNALS ADDED TO PIM 03

		THIS REVISION		TITLE	
DRN	A/J DATE	27/10/11	CHK	A/F DATE	02/11/11
APPD	A/F DATE	02/11/11	ORIGINATOR/DATE	NRG	10/02/04
DRC No.	1007149	SHEET 16 OF 24	DRG STATUS	Approved	
AUTOCAD	L	REVISION			

A

B

C

D

E

F

G

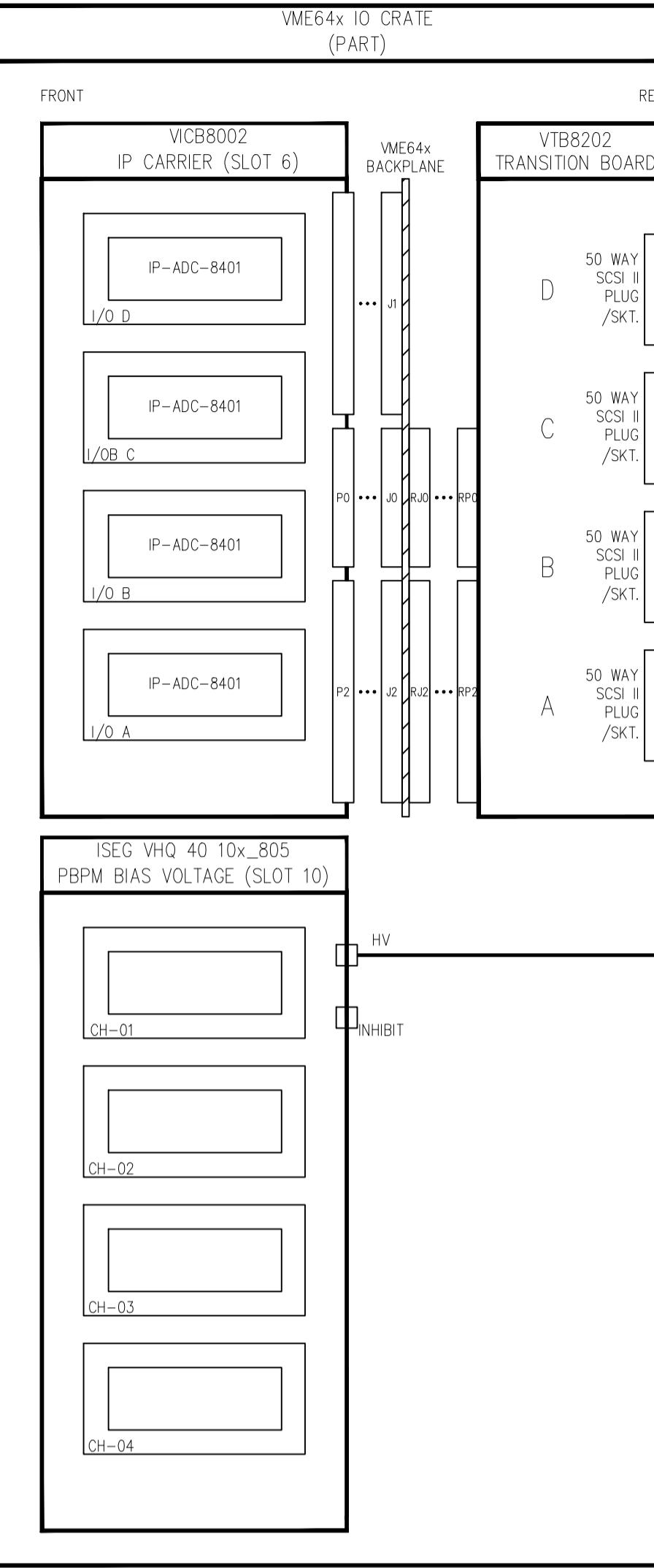
H

I

J

K

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**A****B**  
FIRST ISSUE**C**  
MODS POST RAF  
EENG-FE-RAF-005**D**  
MODS APPLIED FROM  
REVIEW, SEE  
EENG-FE-RAF-006**E**  
TERMINAL NUMBERING  
CORRECTIONS ON PIM04**F**  
IDENTIFICATION  
CORRECTIONS ON  
VARIOUS SHEETS**G**  
ADDED PBPM'S**H**  
AS BUILT**I**  
SEE EENG-FE-RAF-0014**J**  
SHEET 9 - FVG-01/02  
(READY O/P),  
TERMINALS WIRED BACK  
TO CIU-01 TERMINALS  
19 AND 20.  
TB-02 ADDED.  
SHEET 10 - FVG-03/04  
(READY O/P),  
TERMINALS WIRED BACK  
TO CIU-01 TERMINALS  
21 AND 22.  
TB-02 ADDED.**K**  
SHEET 7 - GUARD LINE  
A & B PLACED IN  
SERIES, ID INTERLOCK  
ADDED.  
SHEET 10 -  
TERMINALS ON CIU 03  
RENUMBERED SHEET 4**L**  
SHEET 4  
SLOT 3 DELETED, PMC  
EVENT RECEIVER  
ADDED**M****N****O****P****Q****R****S****T****U****V****W****X****Y****Z****A****B****C****D****E****F****G****H****I****J****K****L****M****N****O****P****Q****R****S****T****U****V****W****X****Y****Z****A****B****C****D****E****F****G****H****I****J****K****L****M****N****O****P****Q****R****S****T****U****V****W****X****Y****Z****A****B****C****D****E**

SR15C-CS-CIA-01

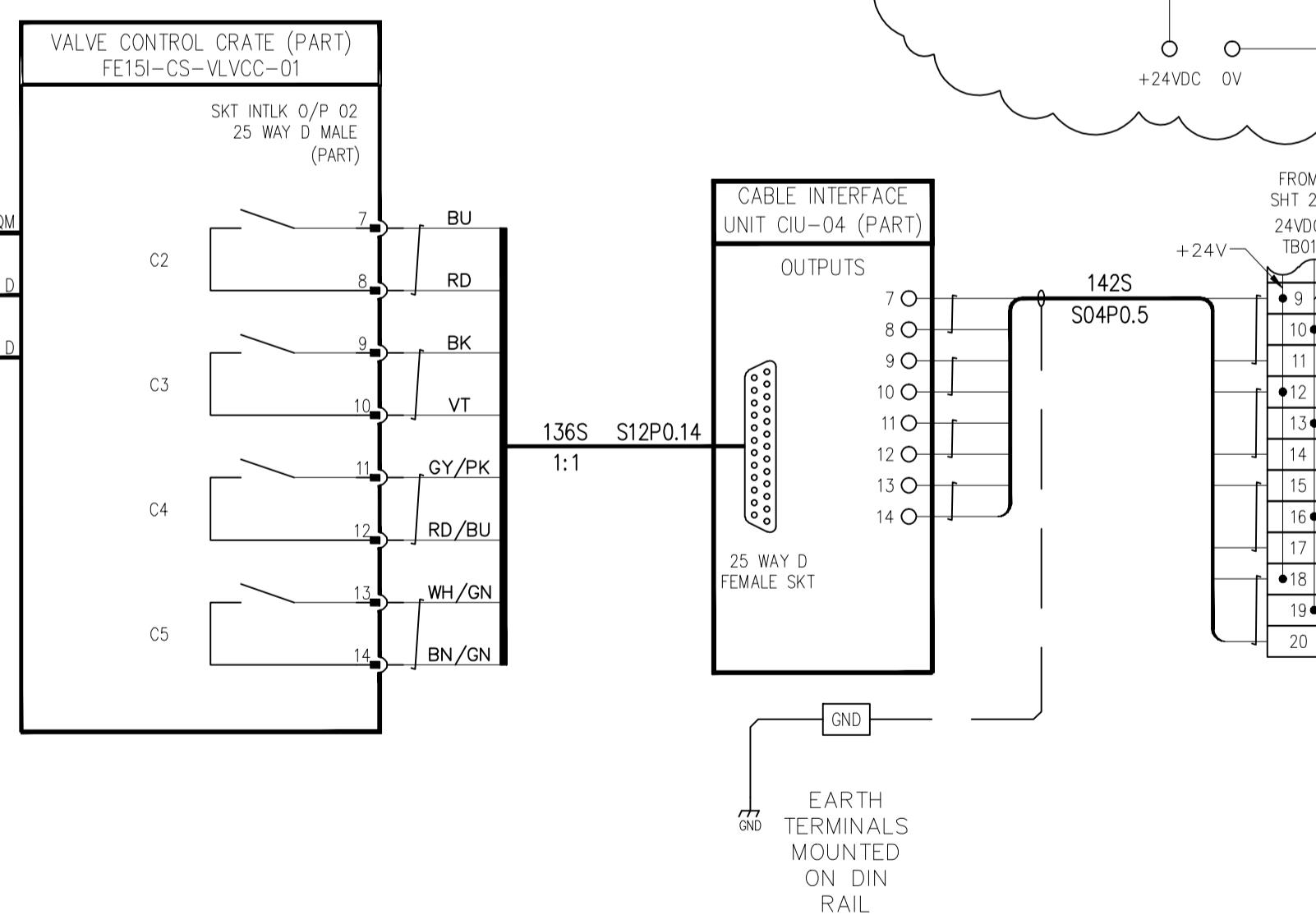
FE15i-CS-RACK-01

STORAGE RING CELL 15  
FE15i FRONT END GIRDER ASSEMBLY 01CABLES INSTALLED  
FOR FUTURE USE

- |        |           |        |
|--------|-----------|--------|
| NOTE 4 | D15-F117S | NOTE 3 |
| NOTE 4 | D15-F118S | NOTE 3 |
| NOTE 4 | D15-F119S | NOTE 3 |
| NOTE 4 | D15-F120S | NOTE 3 |

NOTE 3

D15-F197S



NOTE  
1. FOR ALL ASSOCIATED REFERENCE DRAWINGS / DOCUMENTATION SEE INDEX SHEET 1.  
2. TERMINALS 11, 14 & 20 WITH INTERNAL COMPONENT MOUNTING - TO BE FITTED  
WITH 2K2 RESISTOR.  
3. CABLES INSTALLED LEFT UNTERMINATED IN CABLE DUCT.  
4. CABLES INSTALLED LEFT UNTERMINATED ON TRAY UNDER RACKS.



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THIS  
REVISION  
DRN AUB  
DATE 27/10/11  
CHK AFT  
DATE 02/11/11  
APPD AFT  
DATE 02/11/11  
ORIGINATOR/DATE NGR 10/02/04  
DRG STATUS Approved  
DRC No. 1007149  
SHEET 17 OF 24  
REVISION L

STORAGE RING CELL 15  
FE15i FRONT END CONTROL SYSTEM  
HOOK-UP DRAWING  
J  
K

FE15I-CS-RACK-01

SR15C-CS-CIA-01

FE15I-CS-RACK-02

STORAGE RING CELL 15

FRONT END FE15I

BEAM POSITION MONITOR FE15I-DI-PBPM-02

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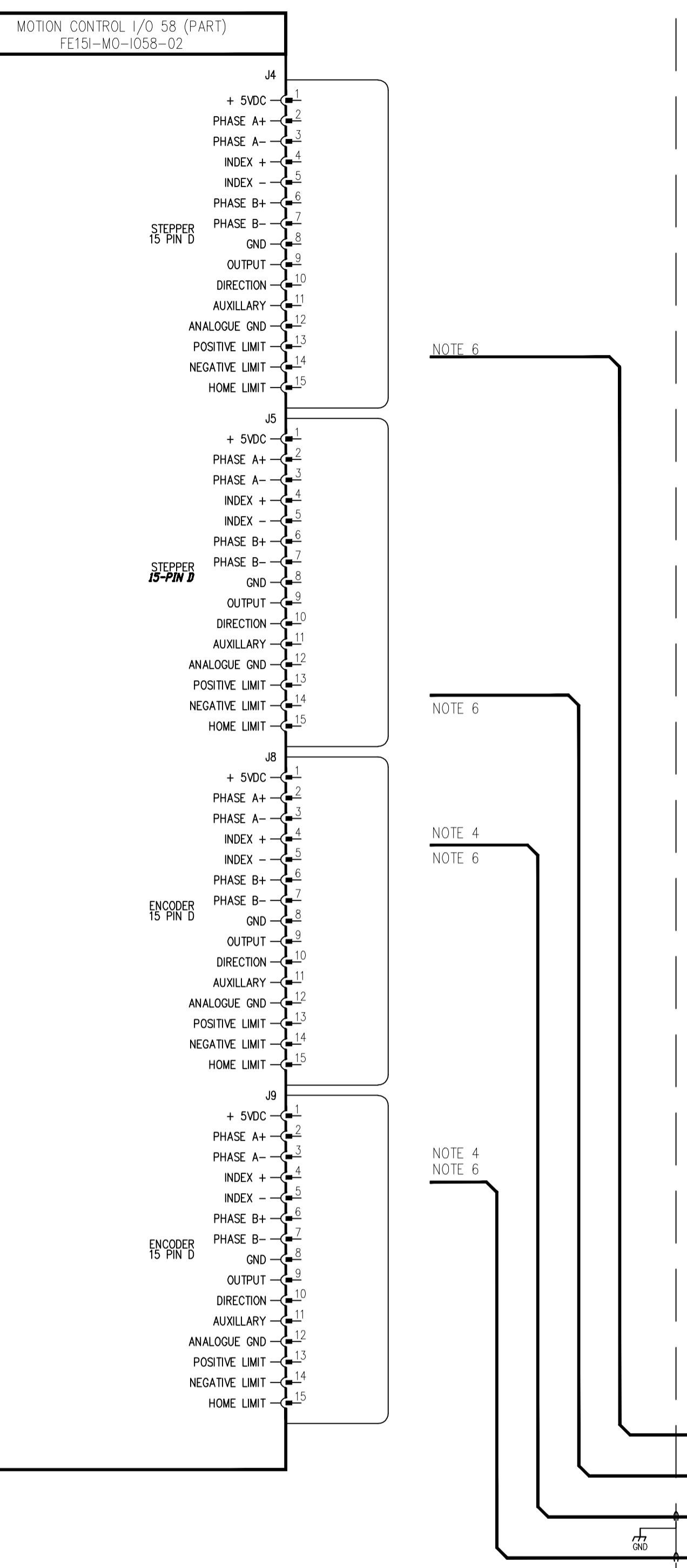
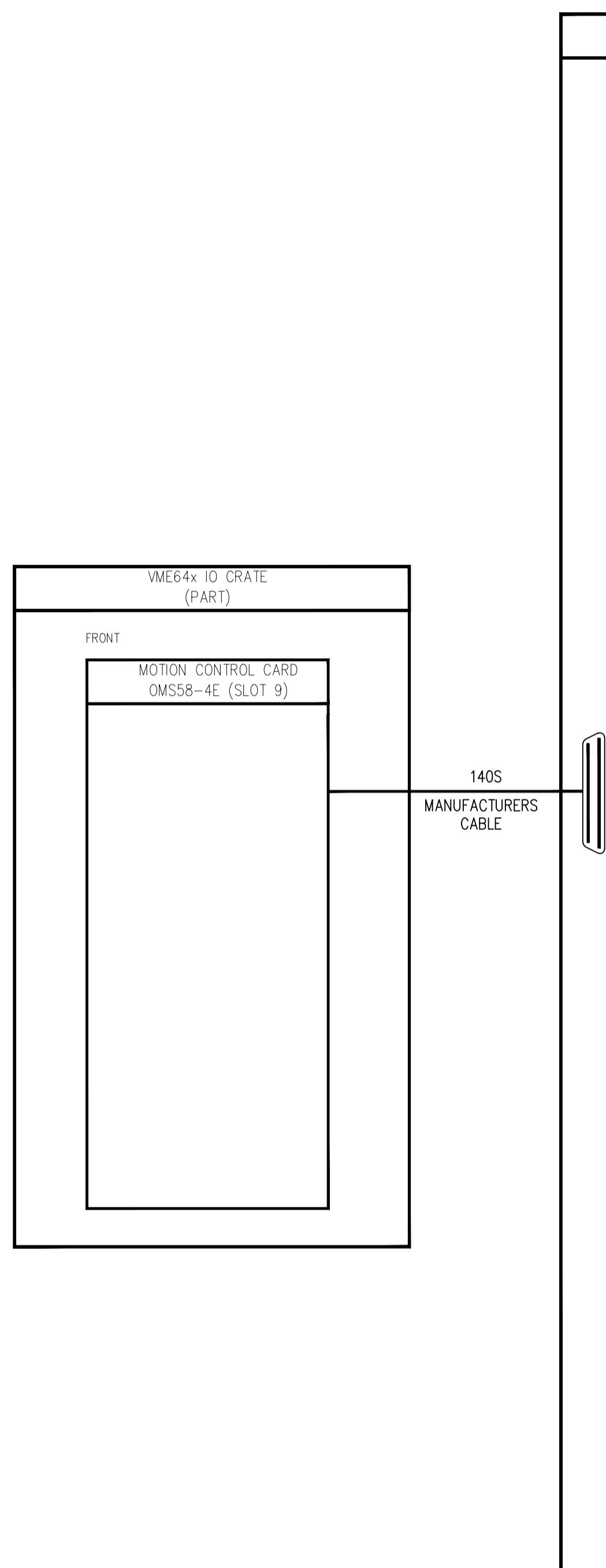
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5

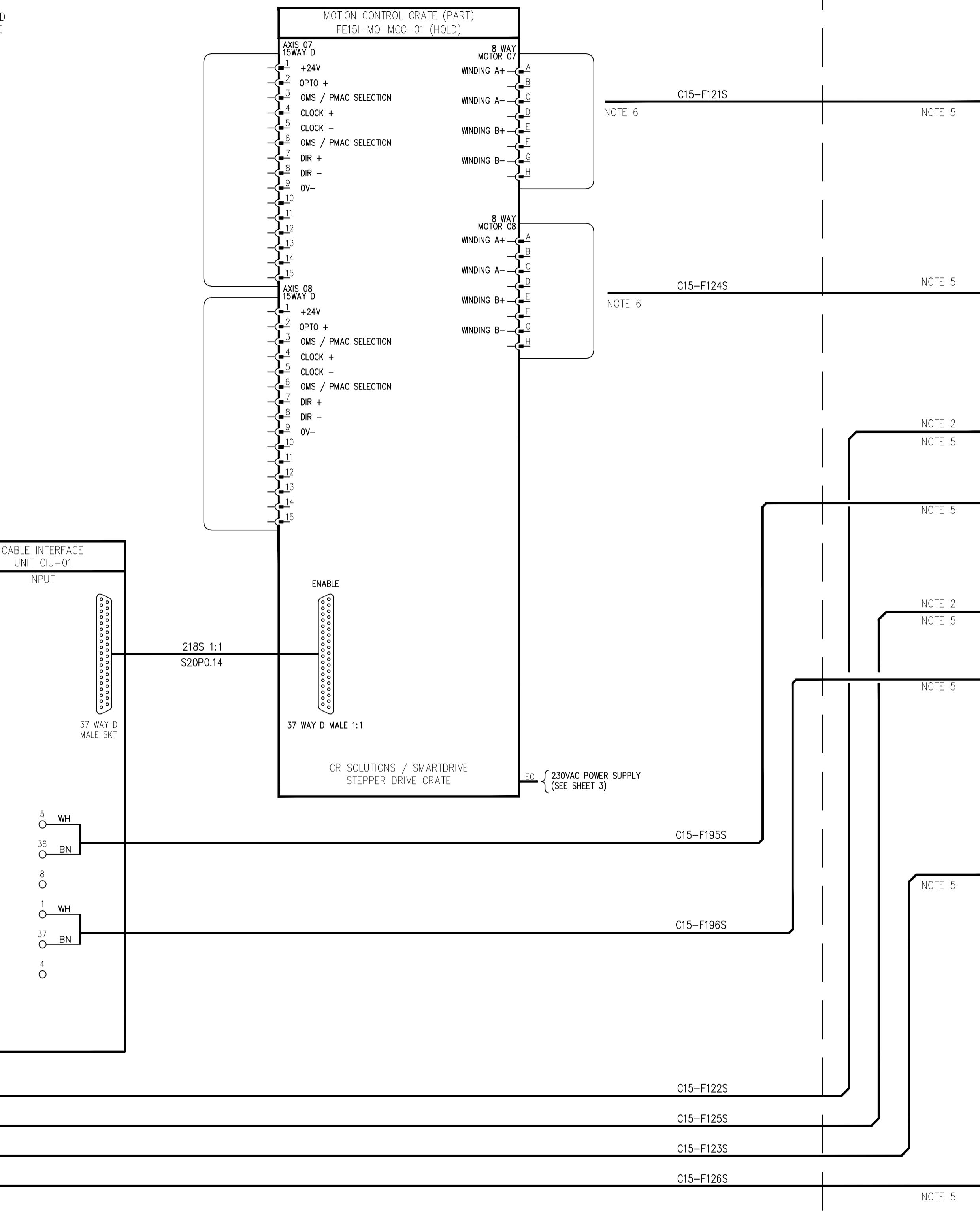
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7

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CABLES INSTALLED FOR FUTURE USE



NOTE:

1. FOR ALL ASSOCIATED REFERENCE DRAWINGS / DOCUMENTATION SEE INDEX SHEET 1.
2. USE DUAL ENTRY BACKSHELL.
3. CLAMP CABLE SCREEN TO GROUND AT ENTRY TO RACK ENCLOSURE.
4. ADD CABLES FOR FUTURE XY TABLE IN CABLE TRAYS BETWEEN RACKS 01 & 02. CABLE NO'S F147 TO F152. SEE CABLE SCHEDULE FOR DUTY.
5. CABLES INSTALLED LEFT UNTERMINATED IN CABLE DUCT.
6. CABLES INSTALLED LEFT UNTERMINATED ON TRAY UNDER RACKS.

A

FIRST ISSUE

B

MODS POST RAF  
EENG-FE-RAF-005

C

MODS APPLIED FROM  
EENG-FE-RAF-006

D

TERMINAL NUMBERING  
CORRECTIONS ON PIM04

E

IDENTIFICATION  
CORRECTIONS ON  
VARIOUS SHEETS

F

ADDED PBPM's

G

AS BUILT

H

SEE EENG-FE-RAF-004

I

SHEET 9 - FVG-01/02  
(READY O/P)  
TERMINALS WIRED BACK  
TO CIU-01 TERMINALS  
19 AND 20.  
TB-02 ADDED.

J

SHEET 7 - GUARD LINE  
A & B PLACED IN  
SERIES. ID INTERLOCK  
ADDED.

K

SHEET 20 -  
TERMINALS ON CIU-03  
RENUMBERED SHEET 4

L

SHEET 4  
SLOT 3 DEFLETED. PMC  
EVENT RECEIVER  
ADDED

M

SHEET 2 & 3 PSU  
REPLACED WITH DUPLEX  
PSU. SH1 5. PSU  
HEALTHY SIGNALS ADDED  
TO PIM 03

E

F

G

H

J

K



diamond

DIAMOND LIGHT SOURCE LTD.  
DIAMOND HOUSE,  
CHILTON, DIDCOT,  
OXFORDSHIRE, OX11 0DE.THIS  
REVISION

DRN	AJB
DATE	27/10/11
CHK	AFT
DATE	02/11/11

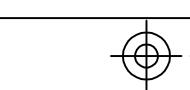
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DATE	02/11/11

ORIGINATOR/DATE	NGR 10/02/04
DRC No.	1007149

DRG STATUS	Approved
REVISION	L

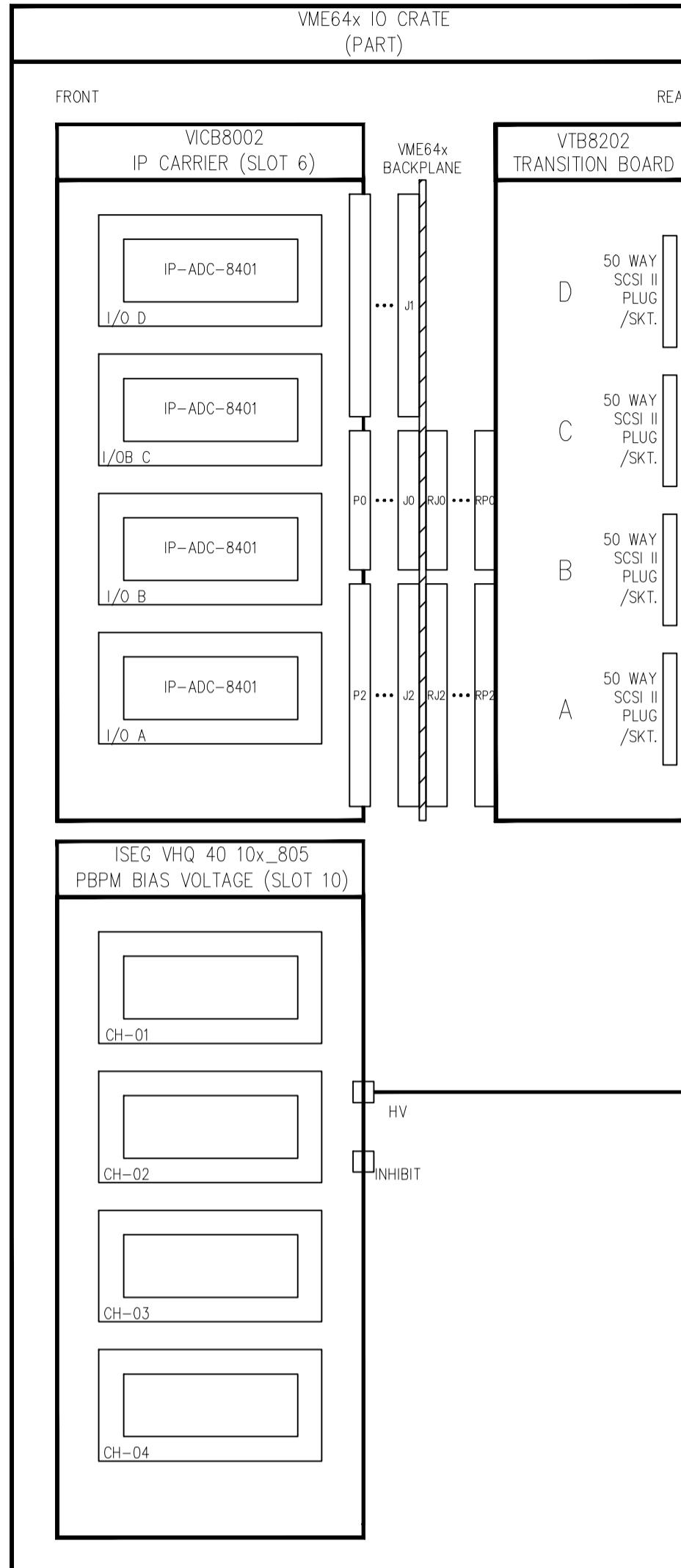
SHEET  
18 OF 24

K



FE15I-CS-RACK-01

FE15I-CS-RACK-02

CABLES INSTALLED  
FOR FUTURE USE

NOTE 4	D15-F130S	NOTE 3
NOTE 4	D15-F131S	NOTE 3
NOTE 4	D15-F132S	NOTE 3
NOTE 4	D15-F133S	NOTE 3

NOTE 3

D15-F198S

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A FIRST ISSUE

B

MODS POST RAF  
EENG-FE-RAF-005

C

MODS APPLIED FROM  
REVIEW SEE  
EENG-FE-RAF-0006

D

TERMINAL NUMBERING  
CORRECTIONS ON PIM04

E

IDENTIFICATION  
CORRECTIONS ON  
VARIOUS SHEETS

F

ADDED PBPMS

G

AS BUILT

H

SEE EENG-FE-RAF-0014

I

SHEET 9 -FVG-01/02  
(READY O/P)  
TERMINALS WIRED BACK  
TO CIU-01 TERMINALS  
19 AND 20.  
TB-02 ADDED.SHEET 10 -FVG-03/04  
(READY O/P)  
TERMINALS WIRED BACK  
TO CIU-01 TERMINALS  
21 AND 22.  
TB-02 ADDED.

J

SHEET 7 -GUARD LINE  
A & B PLACED IN  
SERIES, ID INTERLOCK  
ADDED.SHEET 20 -  
TERMINALS ON CIU-03  
RENUMBERED SHEET 4

K

SHEET 4  
SLOT 3 DELETED, PMC  
EVENT RECEIVER  
ADDED

L

SHEET 2 & 3 PSU  
REPLACED WITH DUPLEX  
PSU. SHT 5, PSU  
HEALTHY SIGNALS ADDED  
TO PIM 03

NOTE

1. FOR ALL ASSOCIATED REFERENCE DRAWINGS / DOCUMENTATION SEE INDEX SHEET 1.
2. TERMINALS 11, 14, 17 & 20 WITH INTERNAL COMPONENT MOUNTING - TO BE FITTED WITH 2K2 RESISTOR.
3. CABLES INSTALLED LEFT UNTERMINATED IN CABLE DUCT.
4. CABLES INSTALLED LEFT UNTERMINATED ON TRAY UNDER RACKS.



diamond

DIAMOND LIGHT SOURCE LTD.  
DIAMOND HOUSE,  
CHILTON, DIDCOT,  
OXFORDSHIRE. OX11 0DE.TITLE  
STORAGE RING CELL 15  
FE15I FRONT END CONTROL SYSTEM  
HOOK-UP DRAWINGTHIS  
REVISION  
DRN A/J  
DATE 27/10/11CHK A/F  
DATE 02/11/11APPD A/F  
DATE 02/11/11ORIGINATOR/DATE  
NR 10/02/04 DRG STATUS  
ApprovedDRG No. 1007149 SHEET  
19 OF 24 REVISION  
L

C DRG. PRACTICE TO B.S. 308. THIRD ANGLE PROJECTION

A

FIRST ISSUE

B

MODS POST RAF  
EENG-FE-RAF-005

C

MODS APPLIED FROM  
REVIEW SEE  
EENG-FE-RAF-0006

D

TERMINAL NUMBERING  
CORRECTIONS ON PIM04

E

IDENTIFICATION  
CORRECTIONS ON  
VARIOUS SHEETS

F

ADDED PBPMS

G

AS BUILT

H

SEE EENG-FE-RAF-0014

I

SHEET 9 -FVG-01/02  
(READY O/P)  
TERMINALS WIRED BACK  
TO CIU-01 TERMINALS  
19 AND 20.  
TB-02 ADDED.SHEET 10 -FVG-03/04  
(READY O/P)  
TERMINALS WIRED BACK  
TO CIU-01 TERMINALS  
21 AND 22.  
TB-02 ADDED.

J

SHEET 7 -GUARD LINE  
A & B PLACED IN  
SERIES, ID INTERLOCK  
ADDED.SHEET 20 -  
TERMINALS ON CIU-03  
RENUMBERED SHEET 4

K

SHEET 4  
SLOT 3 DELETED, PMC  
EVENT RECEIVER  
ADDED

L

SHEET 2 & 3 PSU  
REPLACED WITH DUPLEX  
PSU. SHT 5, PSU  
HEALTHY SIGNALS ADDED  
TO PIM 03

E

F

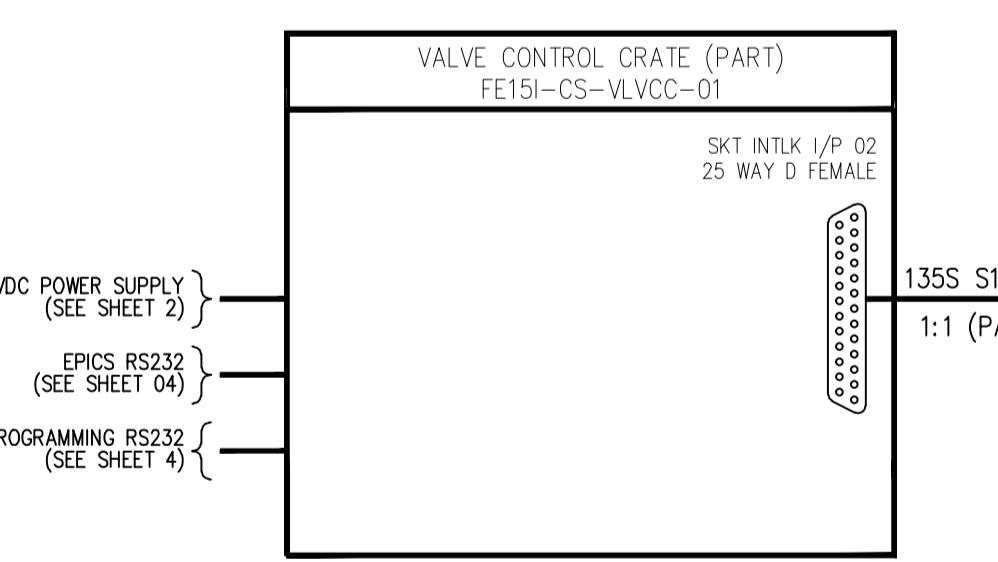
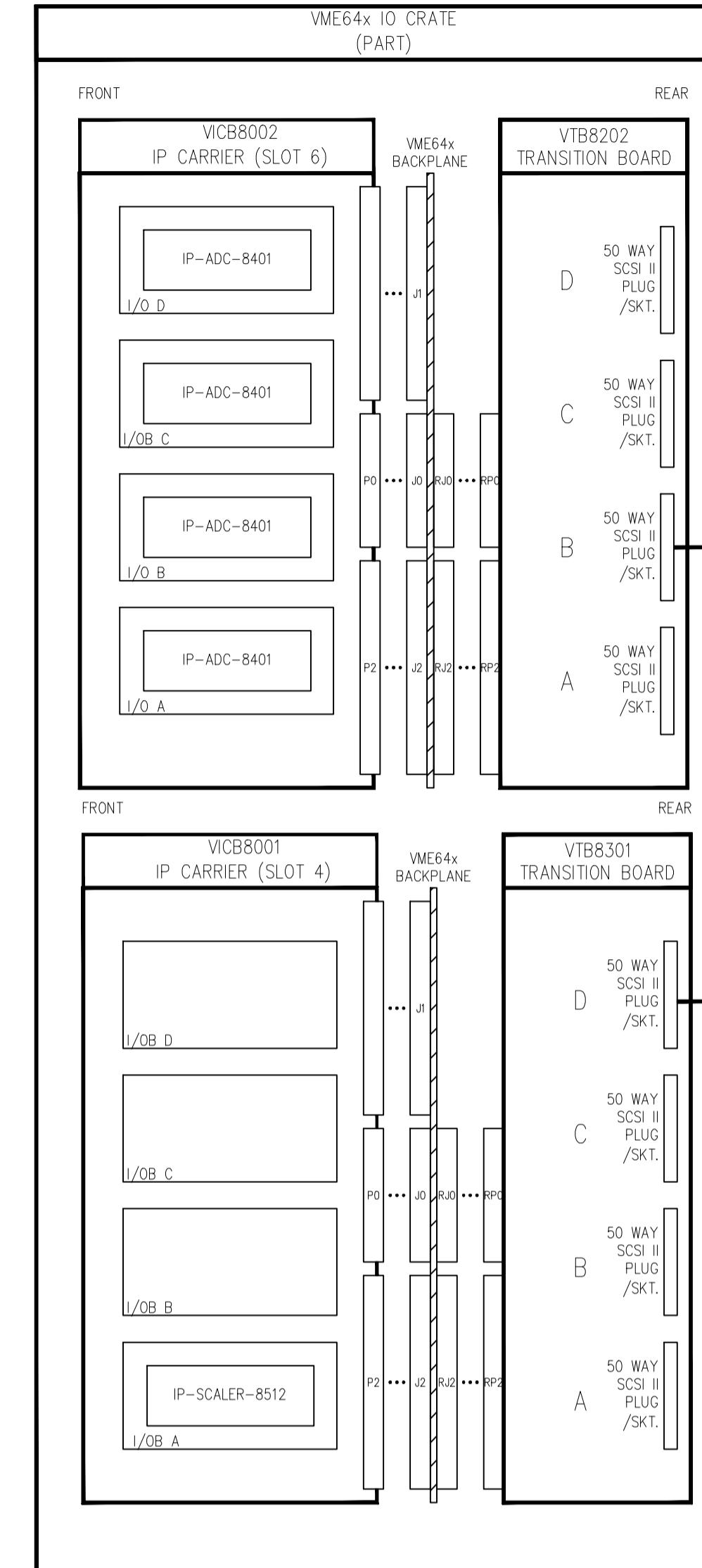
G

H

J

K

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FE15i-CS-RACK-01

SR15C-CS-CIA-01

FE15i-CS-RACK-02

STORAGE RING CELL 15

FE15i FRONT END ASSEMBLY GIRDER 1

**A**

FIRST ISSUE

MODS POST RAF

EENG-FE-RAF-005

**C**

MODS APPLIED FROM

EENG-FE-RAF-0006

**D**

TERMINAL NUMBERING

CORRECTIONS ON

VARIOUS SHEETS

**E**

IDENTIFICATION

CORRECTIONS ON

VARIOUS SHEETS

**F**

ADDED PBM'S

**G**

AS BUILT

**H**

SEE EENG-FE-RAF-0014

**I**

SHEET 9 - FVG-01/02

(READY O/P)

TERMINALS WIRED BACK

TO CIU-01 TERMINALS

19 AND 20.

TB-02 ADDED.

SHEET 10 - FVG-03/04

(READY O/P)

TERMINALS WIRED BACK

TO CIU-01 TERMINALS

21 AND 22.

TB-02 ADDED.

**J**

SHEET 7 - GUARD LINE

A &amp; B PLACED IN

SERIES, ID INTERLOCK

ADDED.

SHEET 20 -

TERMINALS ON CIU-03

RENUMBERED SHEET 4

**K**

SHEET 4

SLOT 3 DELETED, PMC

EVENT RECEIVER

ADDED

**L**

SHEET 2 &amp; 3

PSU

SH1, 5, PSU

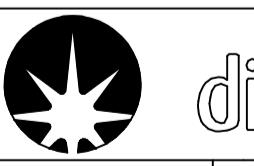
HEALTHY SIGNALS

ADDED

TO PIM 03

**E****F****G****H****J****K**

NOTES  
1. FOR ALL ASSOCIATED REFERENCE DRAWINGS / DOCUMENTATION SEE INDEX SHEET 1.



diamond

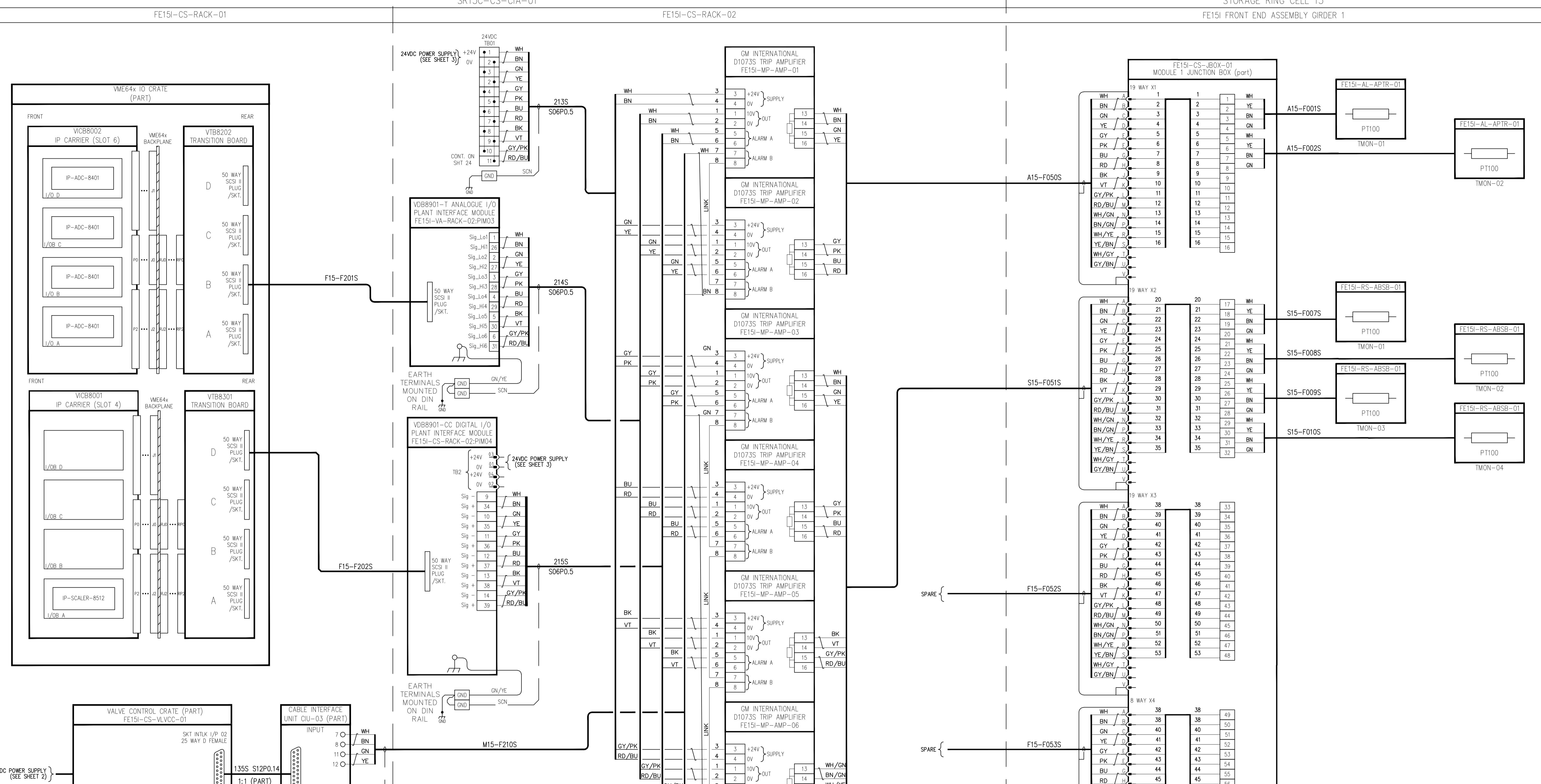
DIAMOND LIGHT SOURCE LTD.  
DIAMOND HOUSE,  
CHILTON, DIDCOT,  
OXFORDSHIRE. OX11 0DE.

THIS  
REVISIONDRN A/JB  
DATE 27/10/11CHK AFT  
DATE 02/11/11APPD AFT  
DATE 02/11/11ORIGINATOR/DATE  
NR 10/02/04TITLE  
STORAGE RING CELL 15FE15i FRONT END CONTROL SYSTEM  
HOOK-UP DRAWINGDRG STATUS  
**Approved**

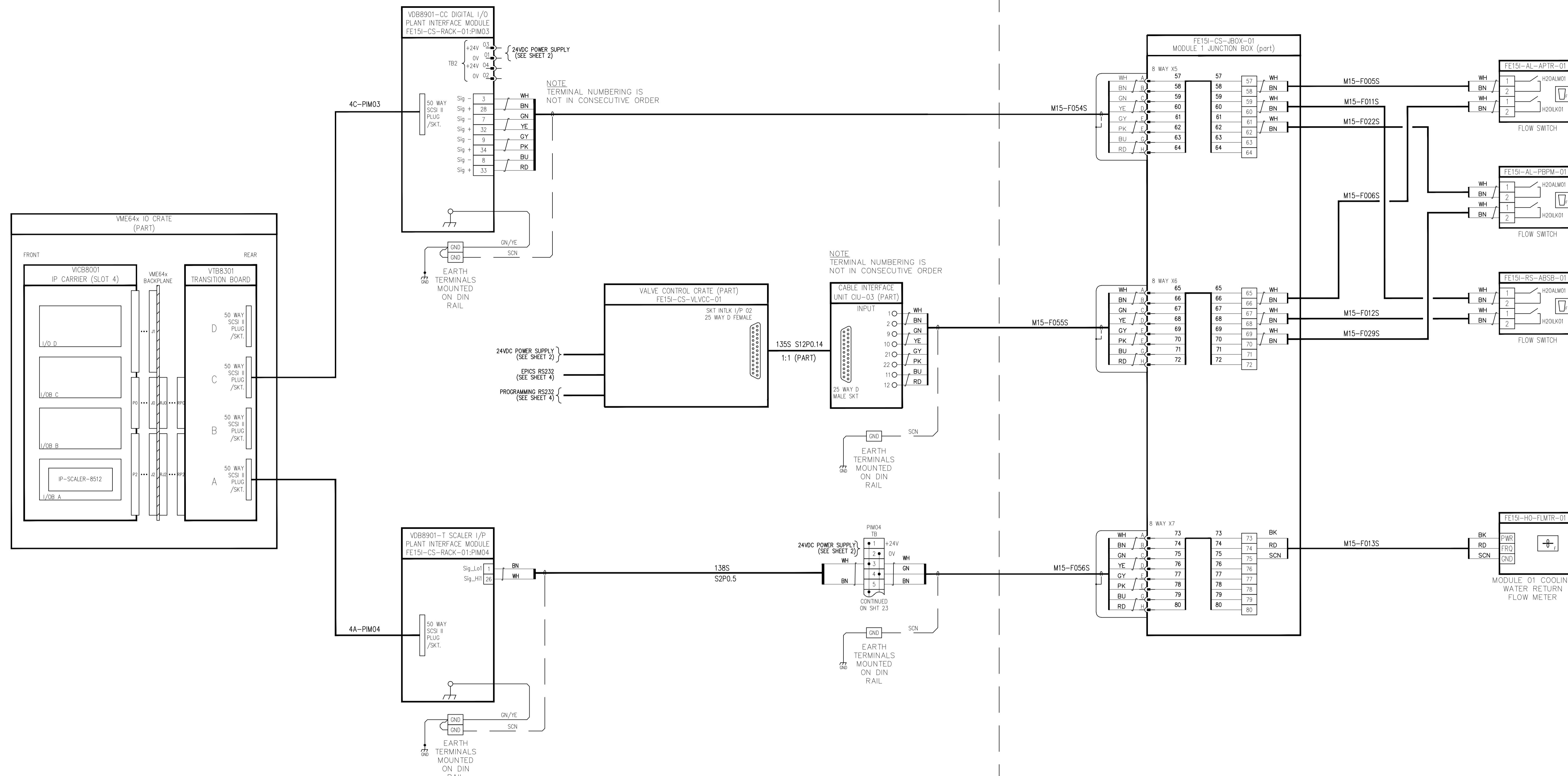
DRC No. 1007149

SHEET 20 OF 24

REVISION L



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NOTES  
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OXFORDSHIRE. OX11 0DE.

## THIS REVISION

DRN DATE	AUB 27/10/11
CHK DATE	AFT 02/11/11
APPD DATE	AFT 02/11/11

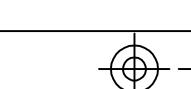
ORIGINATOR/DATE NGR 10/02/04

DRG STATUS Approved

DRC No. 1007149

SHEET 21 OF 24 REVISION L

STORAGE RING CELL 15  
FE15I FRONT END CONTROL SYSTEM  
HOOK-UP DRAWING

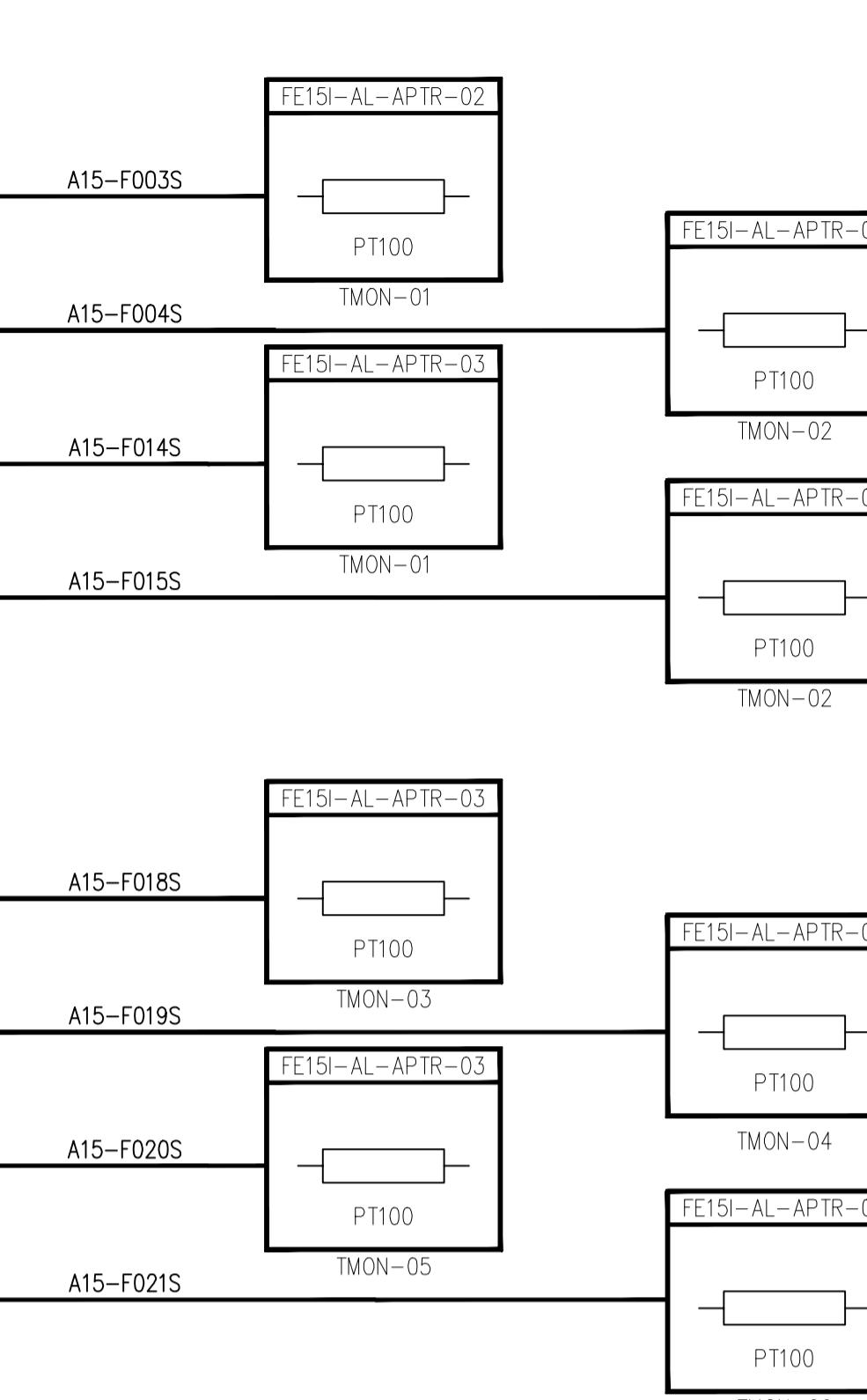
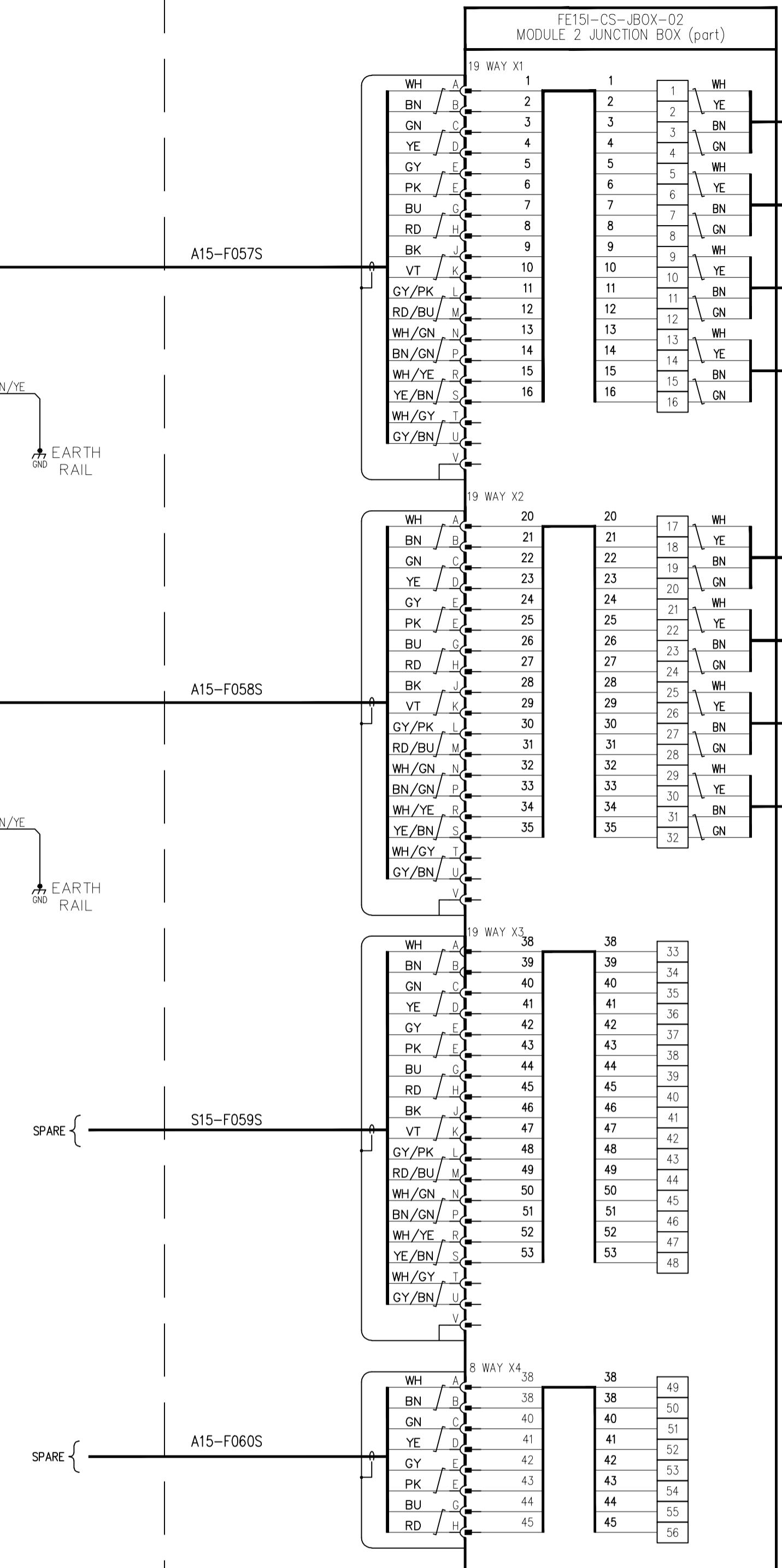
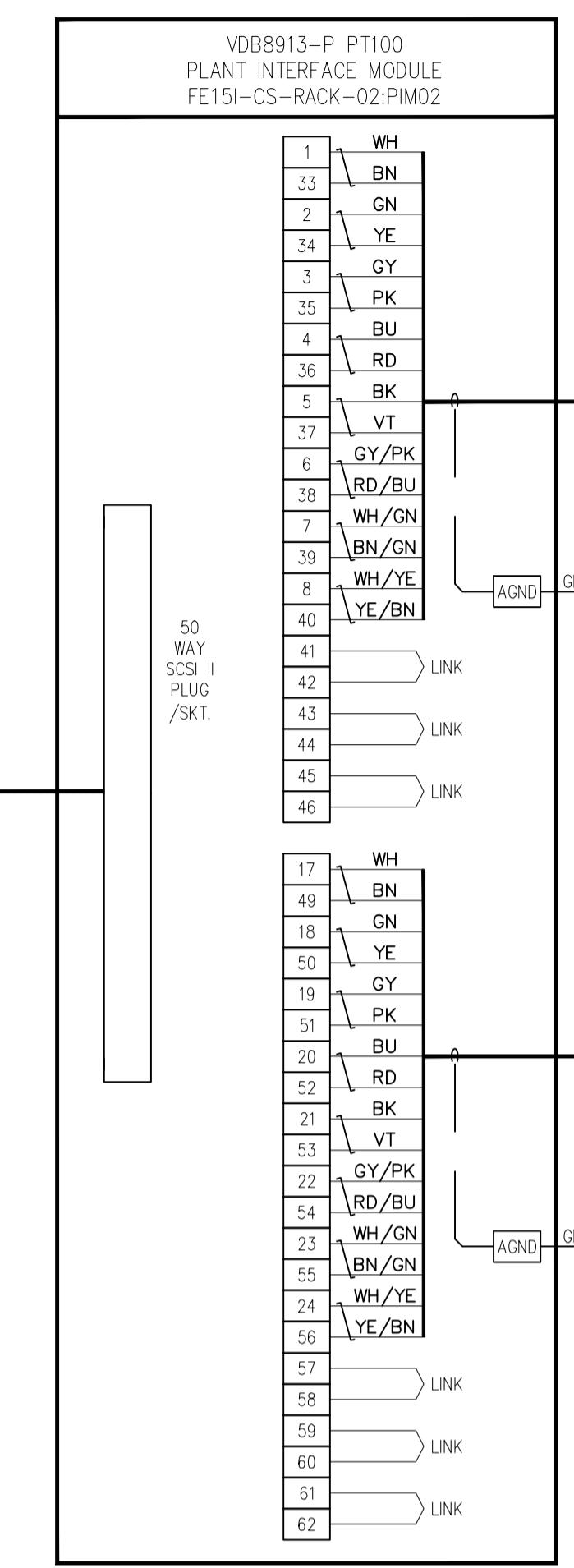
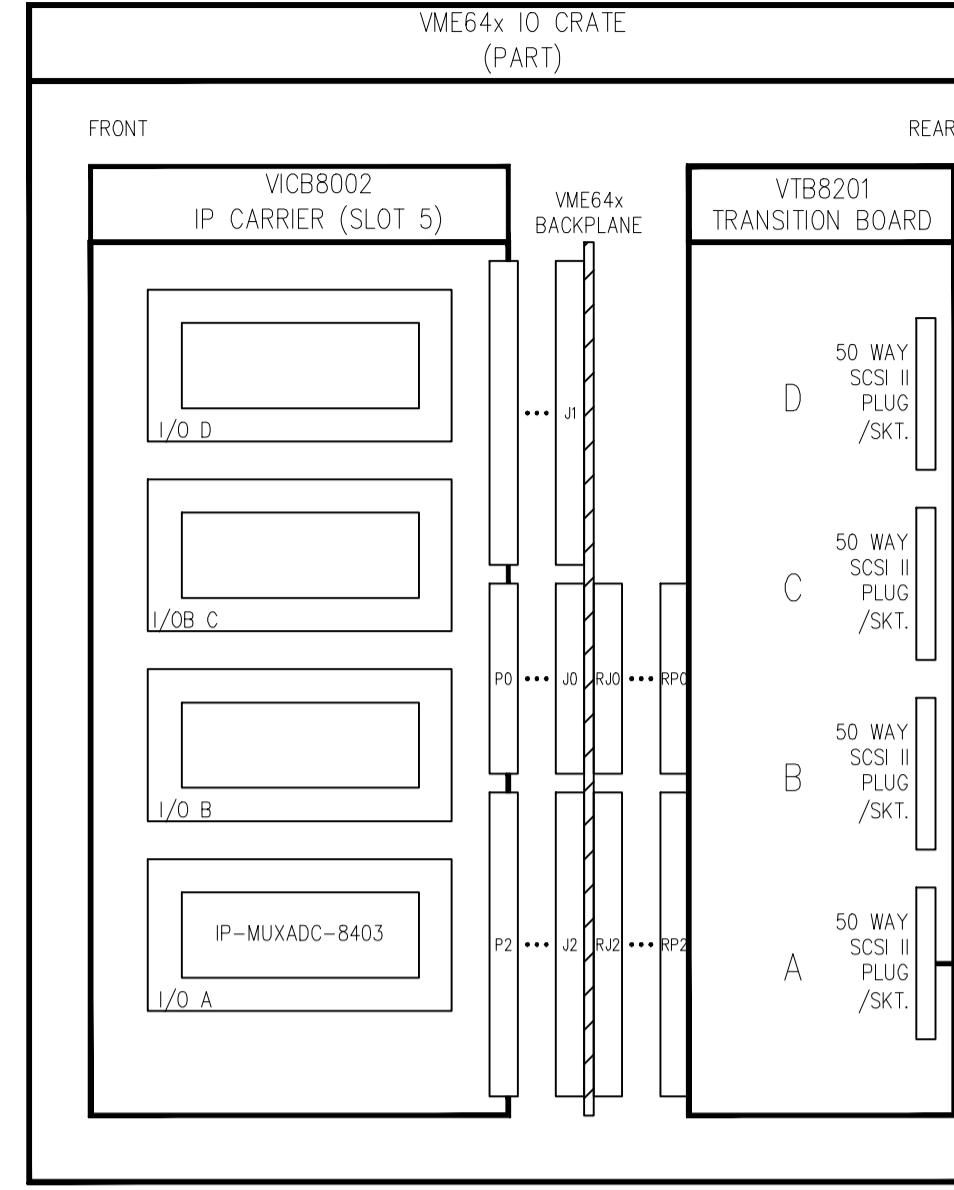


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FE15I-CS-RACK-01

SR15C-CS-CIA-01

FE15I-CS-RACK-02

STORAGE RING CELL 15  
FE15I FRONT END GIRDER ASSEMBLY 02

NOTES  
1. FOR ALL ASSOCIATED REFERENCE DRAWINGS / DOCUMENTATION SEE INDEX SHEET 1.



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THIS  
REVISION  
DRN AUB  
DATE 27/10/11  
CHK AFT  
DATE 02/11/11  
APPD AFT  
DATE 02/11/11  
ORIGINATOR/DATE NGR 10/02/04  
DRG STATUS Approved  
DRC No. 1007149  
SHEET 22 OF 24  
REVISION L

A FIRST ISSUE

B MODS POST RAF  
EENG-FE-RAF-005C MODS APPLIED FROM  
REVIEW, SEE  
EENG-FE-RAF-006D TERMINAL NUMBERING  
CORRECTIONS ON PIM04E IDENTIFICATION  
CORRECTIONS ON  
VARIOUS SHEETS

F ADDED PPM's

G

H AS BUILT

I SEE EENG-FE-RAF-0014

J

SHEET 9 - FVG-01/02  
(READY O/P)  
TERMINALS WIRED BACK  
TO CIU-01 TERMINALS  
19 AND 20.  
TB-02 ADDED.

SHEET 10 - FVG-03/04  
(READY O/P)  
TERMINALS WIRED BACK  
TO CIU-01 TERMINALS  
21 AND 22.  
TB-02 ADDED.

K

SHEET 7 - GUARD LINE  
A & B PLACED IN  
SERIES, ID INTERLOCK  
ADDED.

SHEET 20 -  
TERMINALS ON CIU-03  
RENUMBERED SHEET 4

L

SHEET 4  
SLOT 3 DELETED, PMC  
EVENT RECEIVER  
ADDED

SHEET 2 & 3  
PSU REPLACED WITH DUPLEX  
PSU. SH75 PSU  
HEALTHY SIGNALS ADDED  
TO PIM 03

E

F

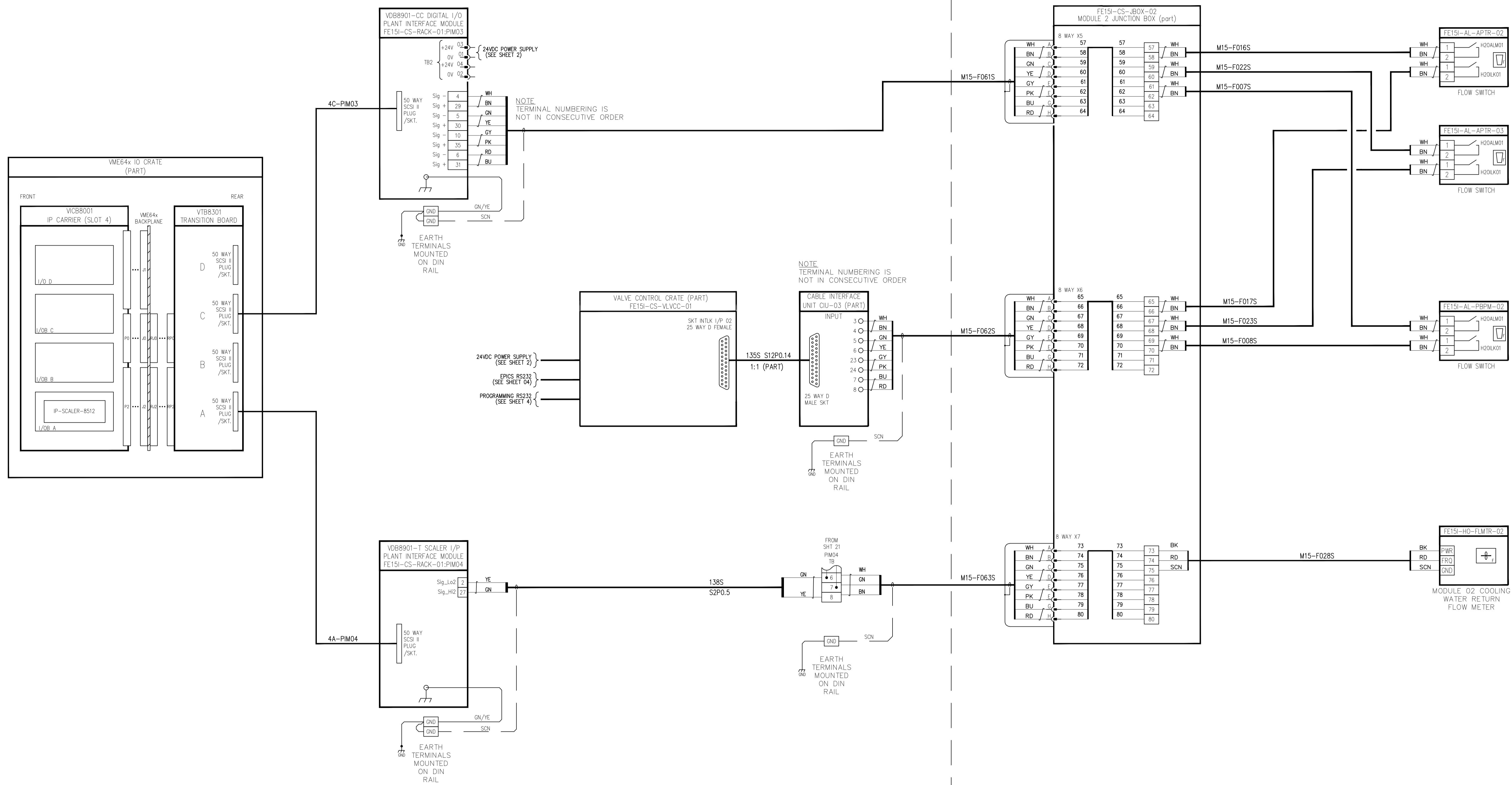
G

H

J

K

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**A**

FIRST ISSUE

**B**

MODS POST RAF EENG-FE-RAF-005

**C**

MODS APPLIED FROM REVIEW SEE EENG-FE-RAF-0006

**D**

TERMINAL NUMBERING CORRECTIONS ON VARIOUS SHEETS SEE EENG-FE-RAF-0014

**E**

IDENTIFICATION CORRECTIONS ON VARIOUS SHEETS

**F**

ADDED PBPM'S

**G**

AS BUILT

**H**

SEE EENG-FE-RAF-0014

**I**

SHEET 9 - FVG-01/02 (READY O/P) TERMINALS WIRED BACK TO CIU-01 TERMINALS 19 AND 20. TB-02 ADDED.

SHEET 10 - FVG-03/04 (READY O/P) TERMINALS WIRED BACK TO CIU-01 TERMINALS 21 AND 22. TB-02 ADDED.

**J**

SHEET 7 - GUARD LINE A &amp; B PLACED IN SERIES. ID INTERLOCK ADDED.

SHEET 20 - TERMINALS ON CIU-03 RENUMBERED SHEET 4

**K**

SHEET 4 SLOT 3 DELETED. PMC EVENT RECEIVER ADDED

**L**

SHEET 2 &amp; 3 PSU REPLACED WITH DUPLEX PSU. SHT 5. PSU HEALTHY SIGNALS ADDED TO PIM 03

NOTES  
1. FOR ALL ASSOCIATED REFERENCE DRAWINGS / DOCUMENTATION SEE INDEX SHEET 1.

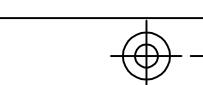


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CHILTON, DIDCOT,  
OXFORDSHIRE, OX11 0DE.

THIS REVISION  
DRN AUB DATE 27/10/11  
CHK AFT DATE 02/11/11  
APPD AFT DATE 02/11/11  
ORIGINATOR/DATE NGR 10/02/04  
DRC No. 1007149

DRG STATUS Approved  
SHEET 23 OF 24 REVISION L

TITLE  
STORAGE RING CELL 15  
FE15I FRONT END CONTROL SYSTEM  
HOOK-UP DRAWING



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<b>A</b>	FIRST ISSUE
<b>B</b>	MODS POST RAF EENG-FE-RAF-005
<b>C</b>	MODS APPLIED FROM REVIEW SEE EENG-FE-RAF-006
<b>D</b>	TERMINAL NUMBERING CORRECTIONS ON PIM04
<b>E</b>	IDENTIFICATION CORRECTIONS ON VARIOUS SHEETS
<b>F</b>	ADDED PBPM's
<b>G</b>	AS BUILT
<b>H</b>	SEE EENG-FE-RAF-0014
<b>I</b>	-

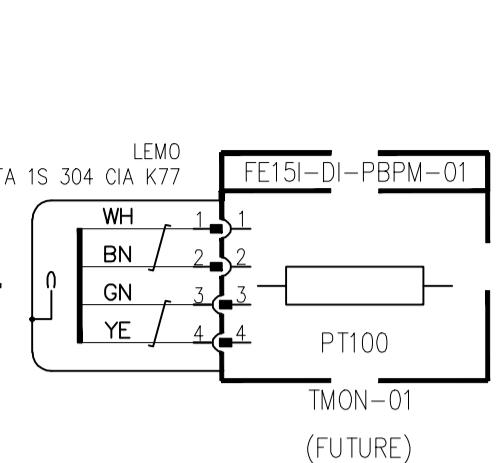
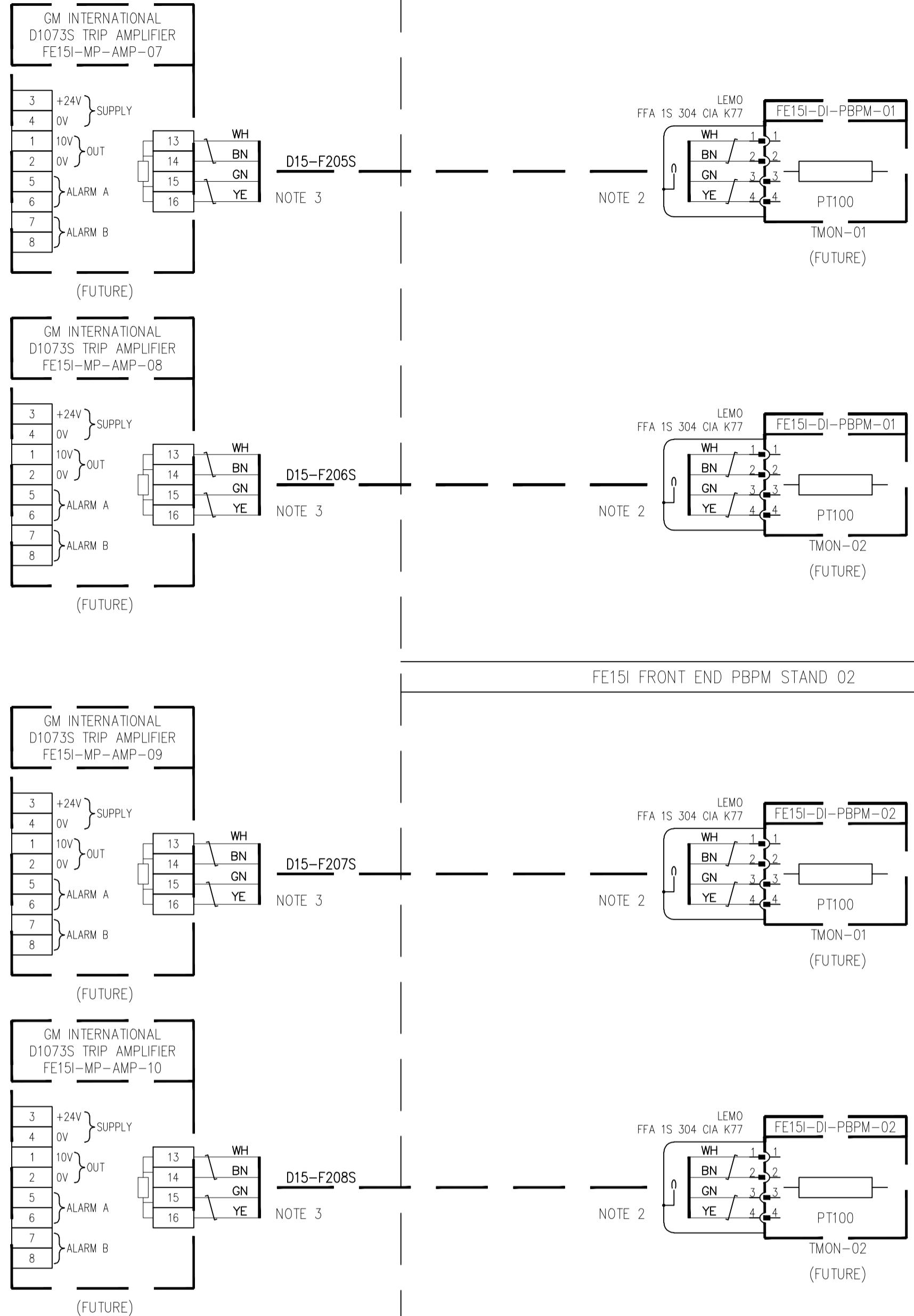
<b>J</b>	SHEET 9 - FVG-01/02 (READY O/P) TERMINALS WIRED BACK TO CIU-01 TERMINALS 19 AND 20. TB-02 ADDED.
<b>K</b>	SHEET 10 - FVG-03/04 (READY O/P) TERMINALS WIRED BACK TO CIU-01 TERMINALS 21 AND 22. TB-02 ADDED.
<b>L</b>	SHEET 7 - GUARD LINE A & B PLACED IN SERIES, ID INTERLOCK ADDED.
<b>M</b>	SHEET 20 - TERMINALS ON CIU-03 RENUMBERED SHEET 4
<b>N</b>	SHEET 4 SLOT 3 DELETED, PMC EVENT RECEIVER ADDED
<b>O</b>	SHEET 2 & 3 PSU REPLACED WITH DUPLEX PSU. SH1 5, PSU HEALTHY SIGNALS ADDED TO PIM 03

NOTE  
1. FOR ALL ASSOCIATED REFERENCE DRAWINGS / DOCUMENTATION SEE INDEX SHEET 1.  
2. CABLES INSTALLED LEFT UNTERMINATED IN CABLE DUCT.  
3. CABLES INSTALLED LEFT UNTERMINATED ON TRAY UNDER RACKS.

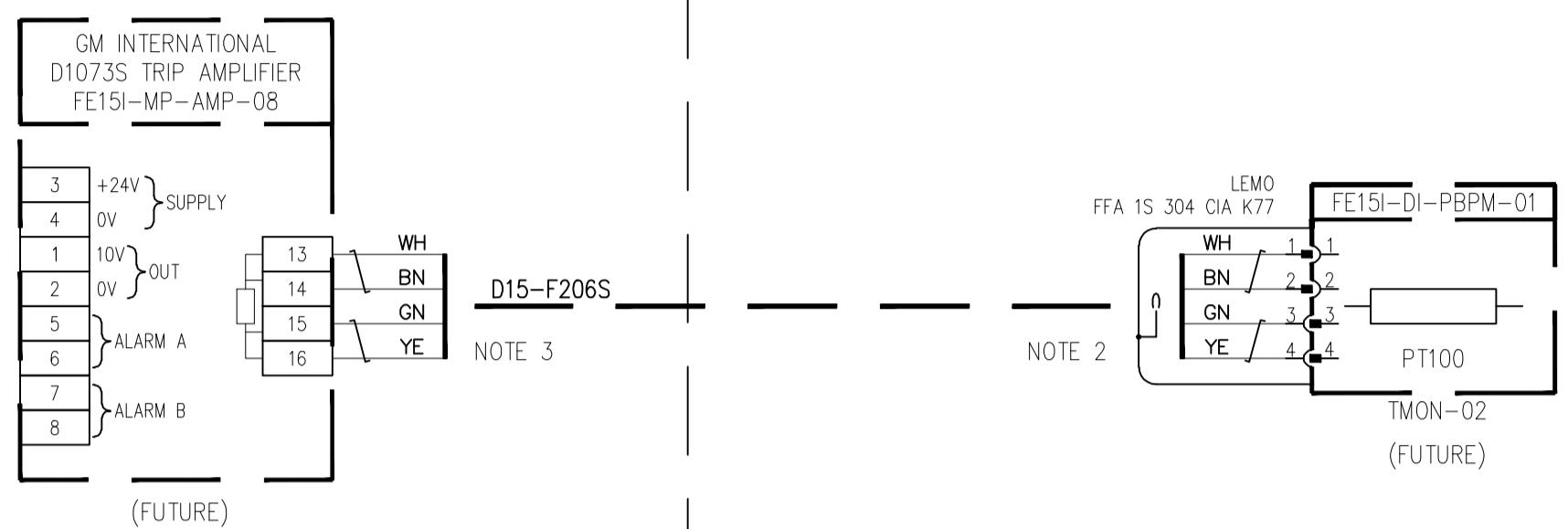


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CHILTON, DIDCOT,  
OXFORDSHIRE, OX11 0DE.

THIS REVISION		TITLE	
DRN DATE	A/JB 27/10/11	CHK DATE	AFT 02/11/11
APPD DATE	AFT 02/11/11	ORIGINATOR/DATE	NGR 10/02/04
AUTOCAD		DRG STATUS	Approved
1007149		SHEET 24 OF 24	REVISION L

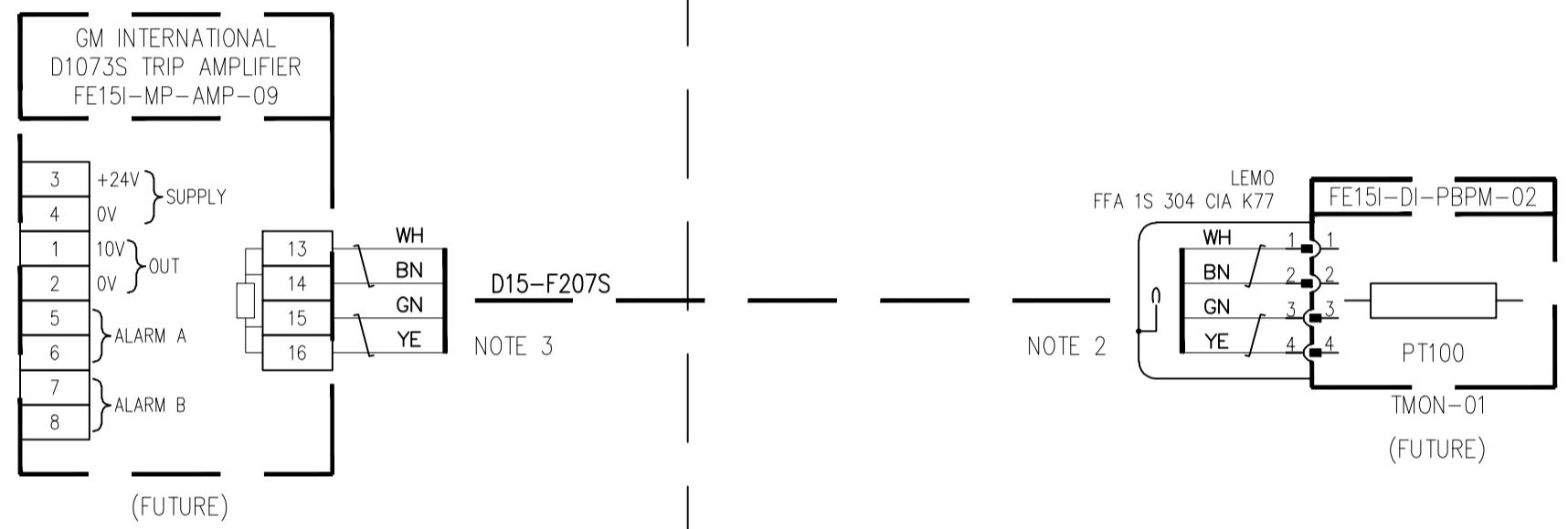


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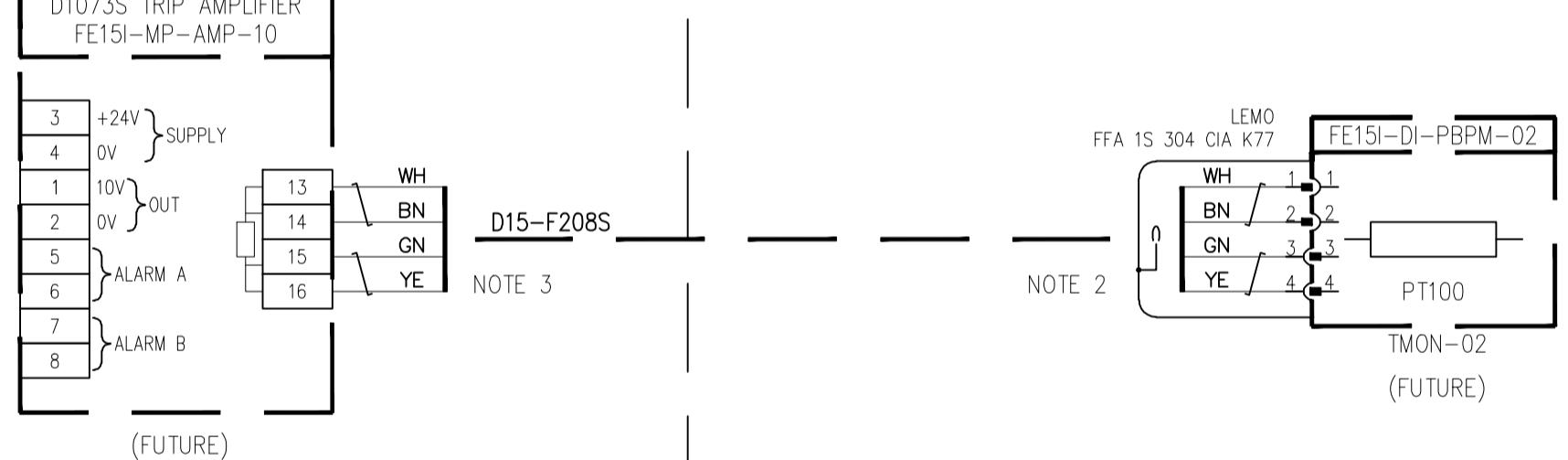


(FUTURE)

FE15I FRONT END PBPM STAND 02

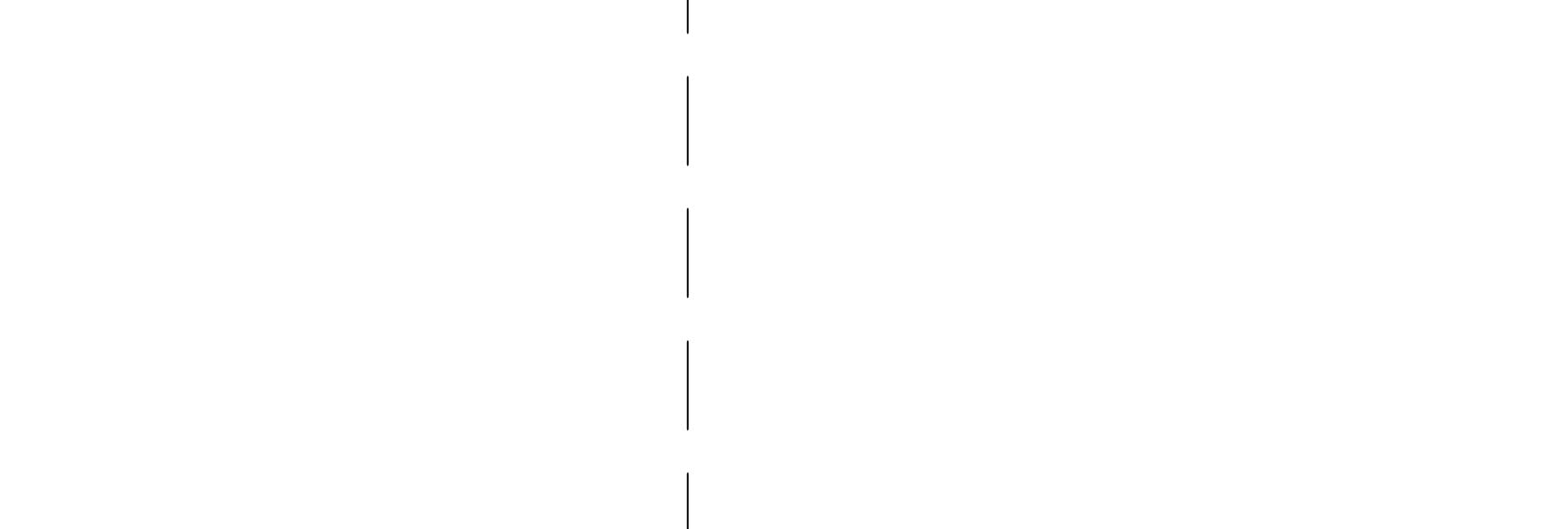


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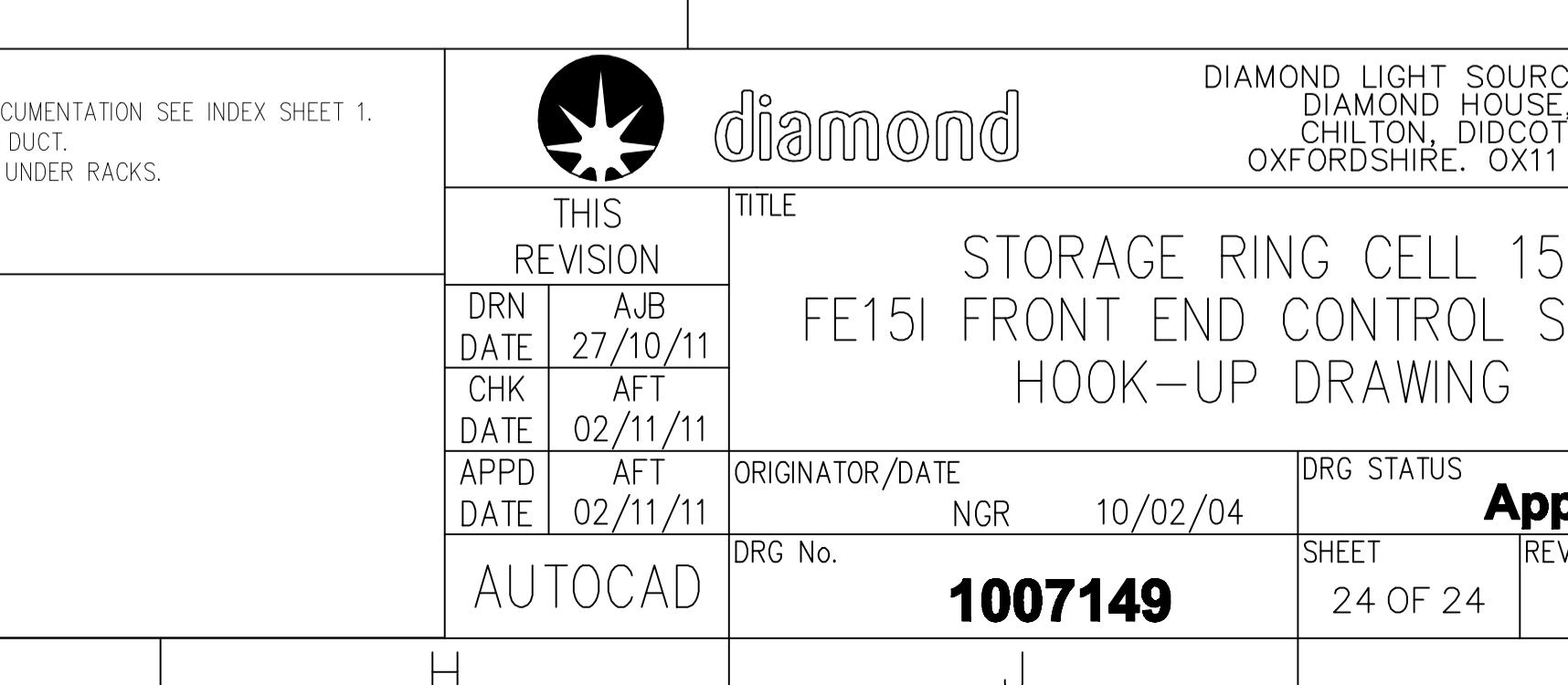
(FUTURE)

FE15I FRONT END PBPM STAND 02



(FUTURE)

FE15I FRONT END PBPM STAND 02



(FUTURE)

FE15I FRONT END PBPM STAND 02