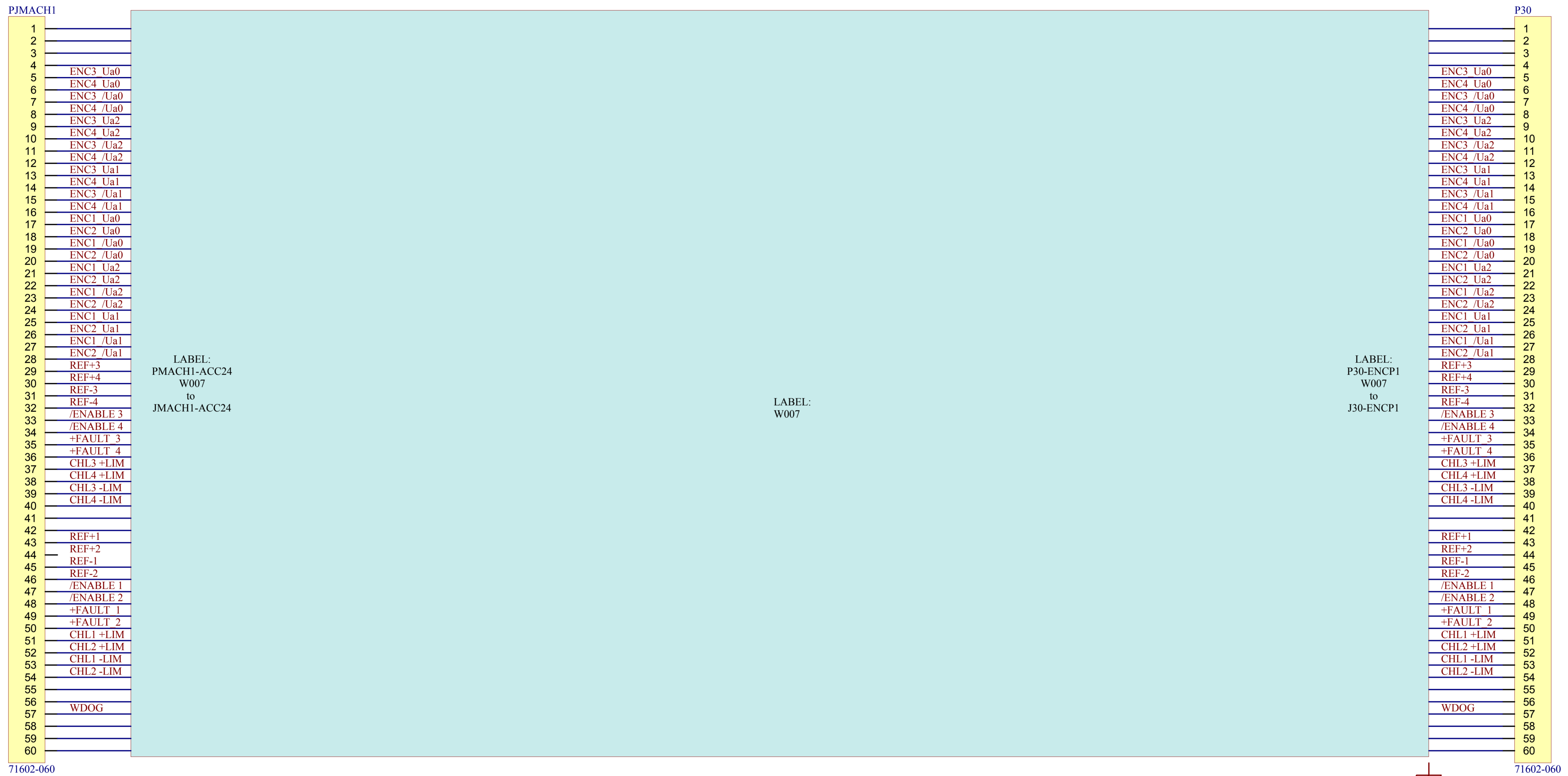


Controlled Document
Confirm revision before using

ACC24 JMACH1 CABLE



WIRE TYPE:843-159-2801-060 Shielded ribbon cable
LENGTHS: ACC24: 26"

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\acc24jmach1W007.SCHDOC
PRINTED 12/8/2009 4:07:12 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

LICK APF ACC24 MACH1 to ENCP1 Interface

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig

SCH-5376-4

SHEET 20

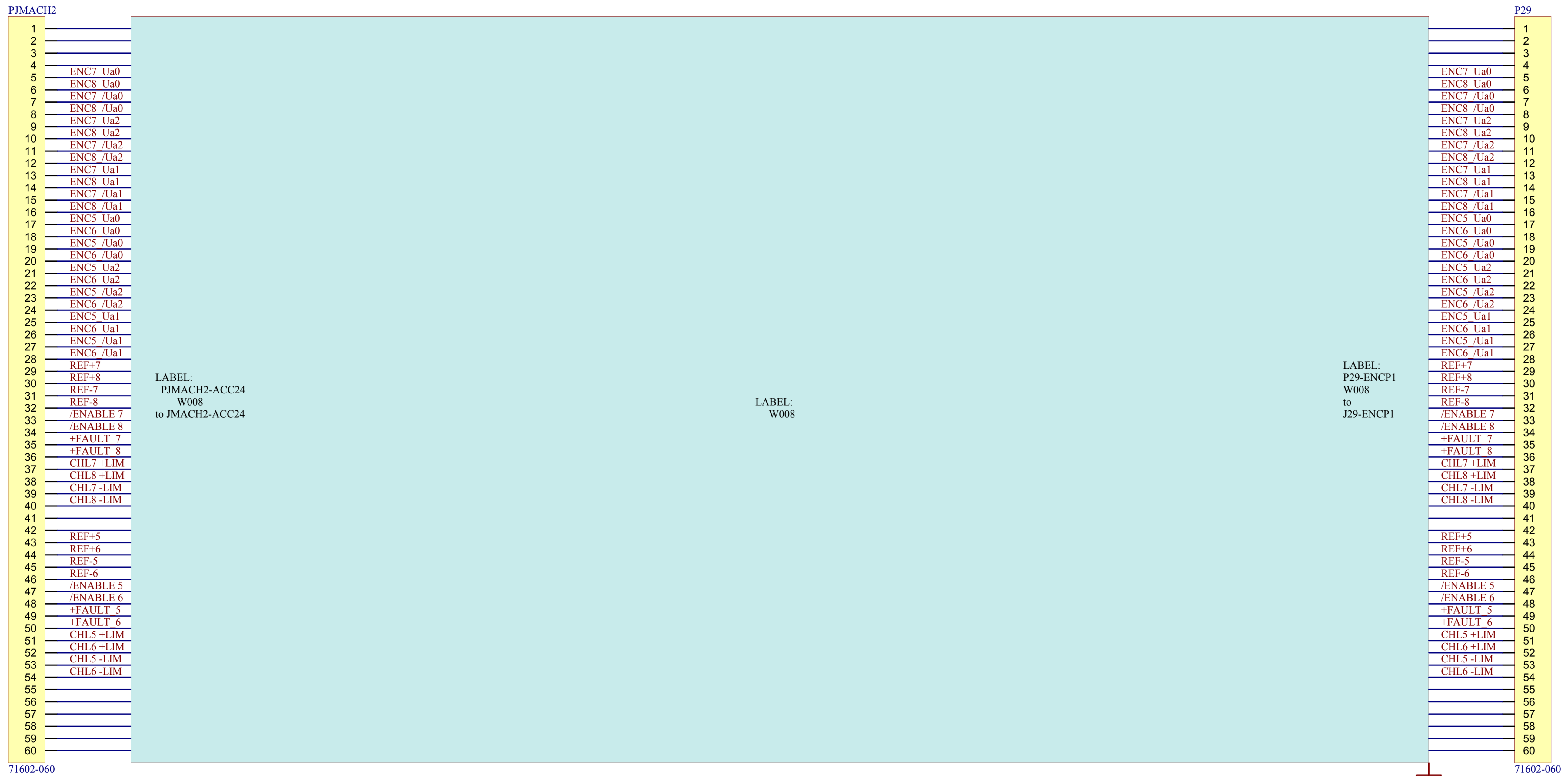
OF

64

SCH-5376-4-ICK APF ACC24 MACH1 to ENCP1 Interface

Controlled Document
Confirm revision before using

ACC24 JMACH2 CABLE



WIRE TYPE:843-159-2801-060 Shielded ribbon cable
LENGTHS: ACC24: 35"

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TUCSON, ARIZONA 85706 USA

TITLE

LICK APF ACC24 MACH2 to ENCP1 Interface

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig

SCH-5376-4

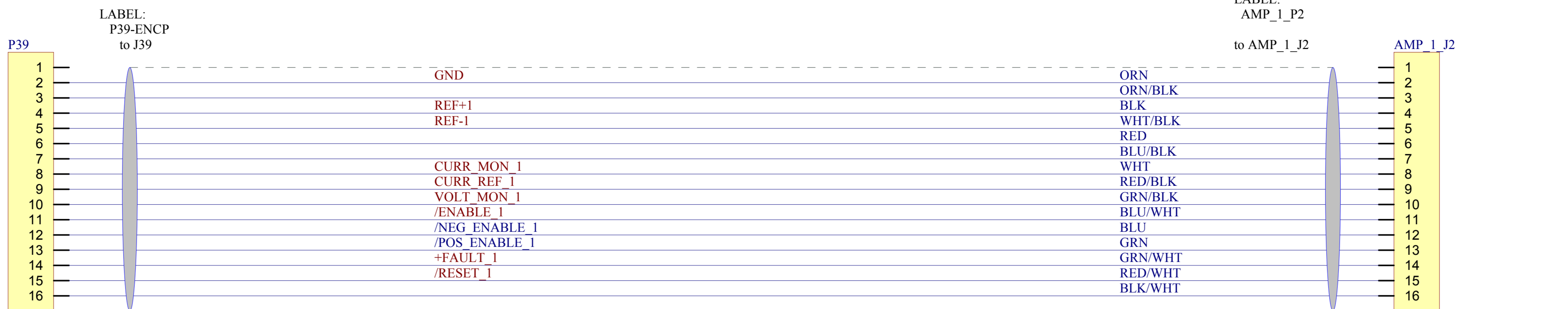
SHEET 21

OF

64

SCH-5376-4 LICK APF ACC24 MACH2 to ENCP1 Interface

ENCODER PLANAR



22-01-3167 w/08-50-0114 pins

22-01-3167 w/ 08-50-0114 pins

ENCODER PLANAR



22-01-3167 w/08-50-0114 pins

22-01-3167 w/ 08-50-0114 pins

ENCODER PLANAR



22-01-3167 w/08-50-0114 pins

22-01-3167 w/ 08-50-0114 pins

ENCODER PLANAR



22-01-3167 w/08-50-0114 pins

22-01-3167 w/ 08-50-0114 pins

WIRE TYPE: Belden 9616

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMPAMP_WIRING.SCHDOC
PRINTED 12/8/2009 4:07:13 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

LICK APF ENCP0 Amplifier Interface

DOCUMENT NUMBER

SCH-5376-4

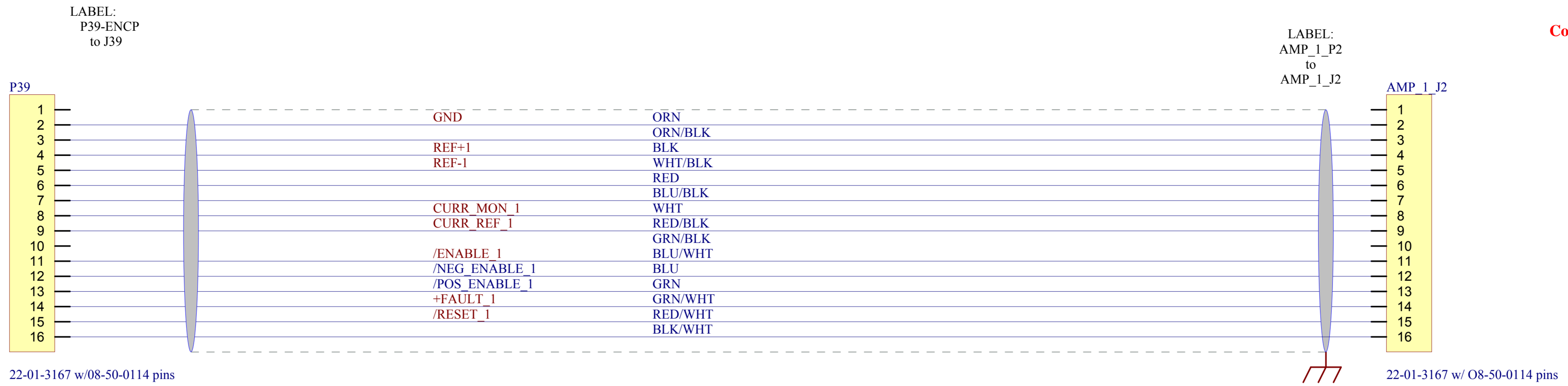
SIZE

A3

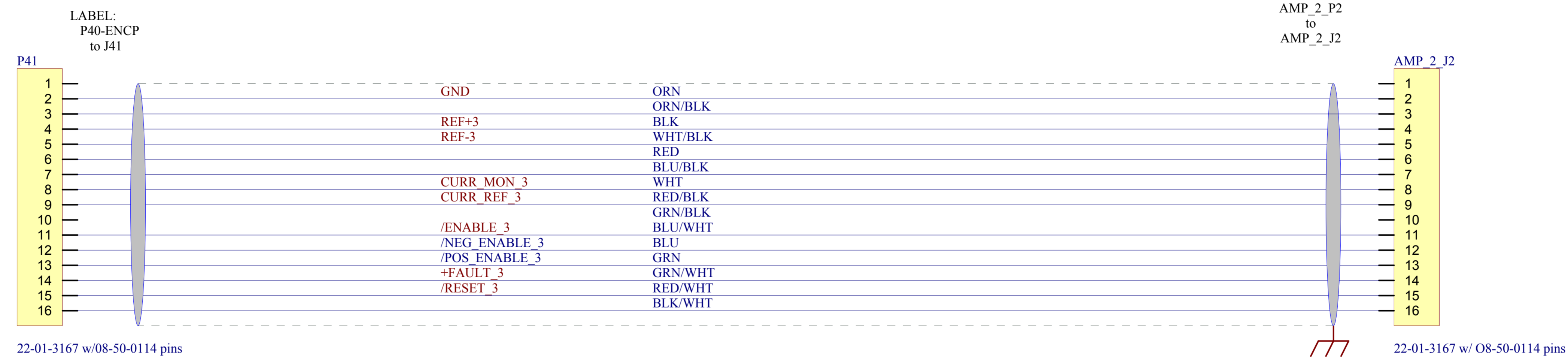
EastConfig SCH-5376-4

SHEET 6 OF 64

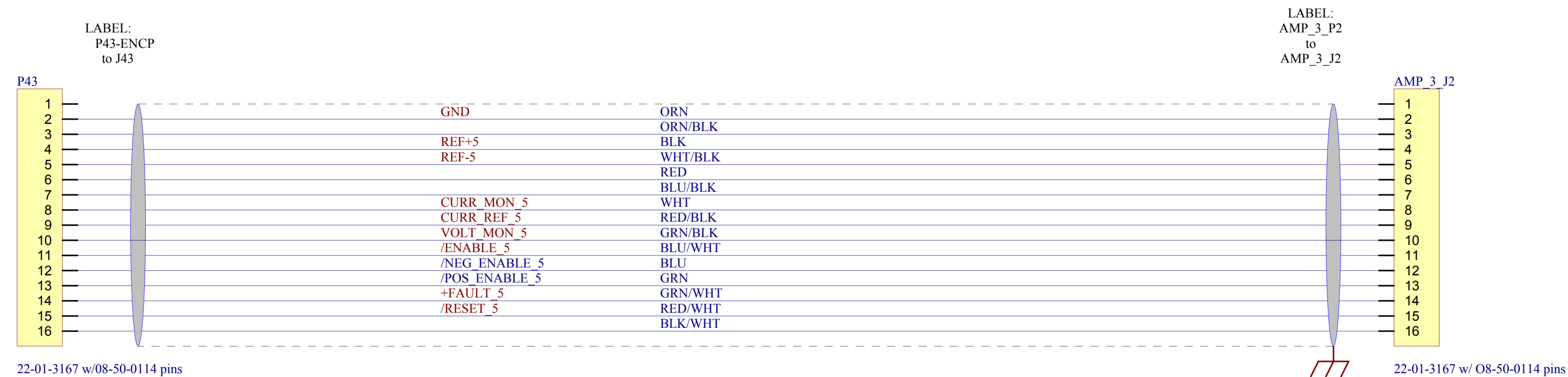
ENCODER PLANAR
AZIMUTH



ENCODER PLANAR
ELEVATION



ENCODER PLANAR
INSTRUMENT ROTATOR (Option)



WIRE TYPE: Belden 9616

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PRINTED 12/8/2009 4:07:14 PM
TEMPLATE: Eost_tabloid_SUBS

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TITLE

LICK APF ENCP1 Amplifier Interface

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig

SCH-5376-4

SHEET 10

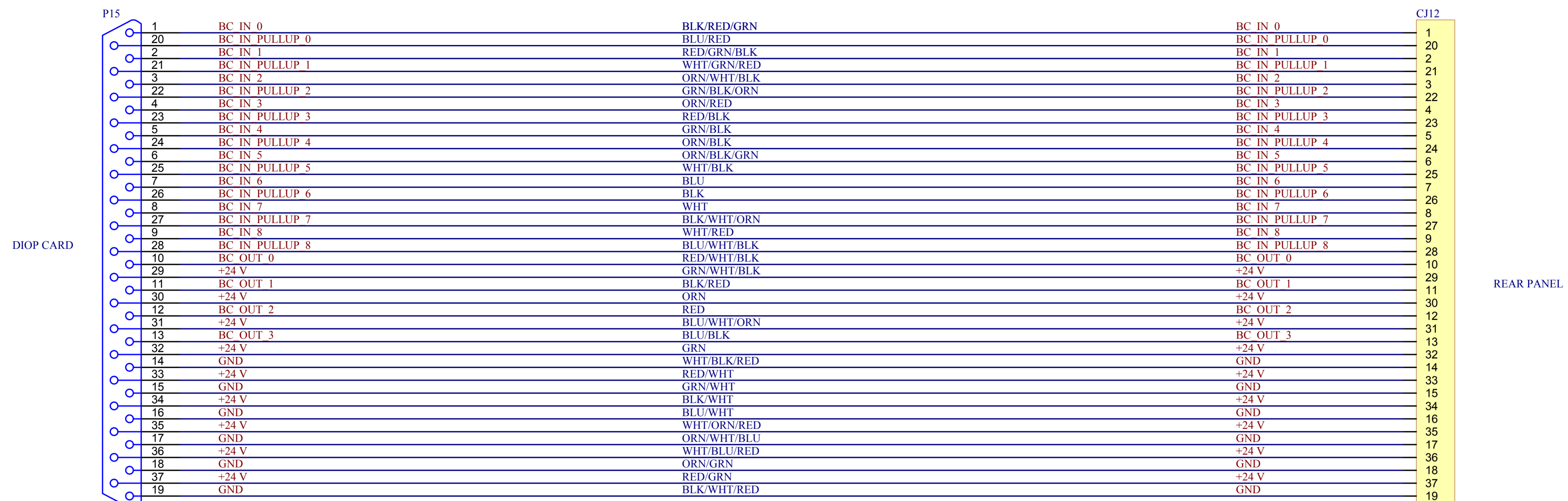
OF

64

Label:
P15_DIOP
W056
to J15_DIOP
CARD

Label:
W056

Label:
CJ12
W056
to CAB_PNL



205168-1
B.S. 748677-4

206438-1
B.S. 207774-1

WIRE TYPE: ALPHA 6349
LENGTH: 58"

MIRROR COVER CONTROL I/O

KEY: PIN 56

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PRINTED 12/8/2009 4:07:15 PM
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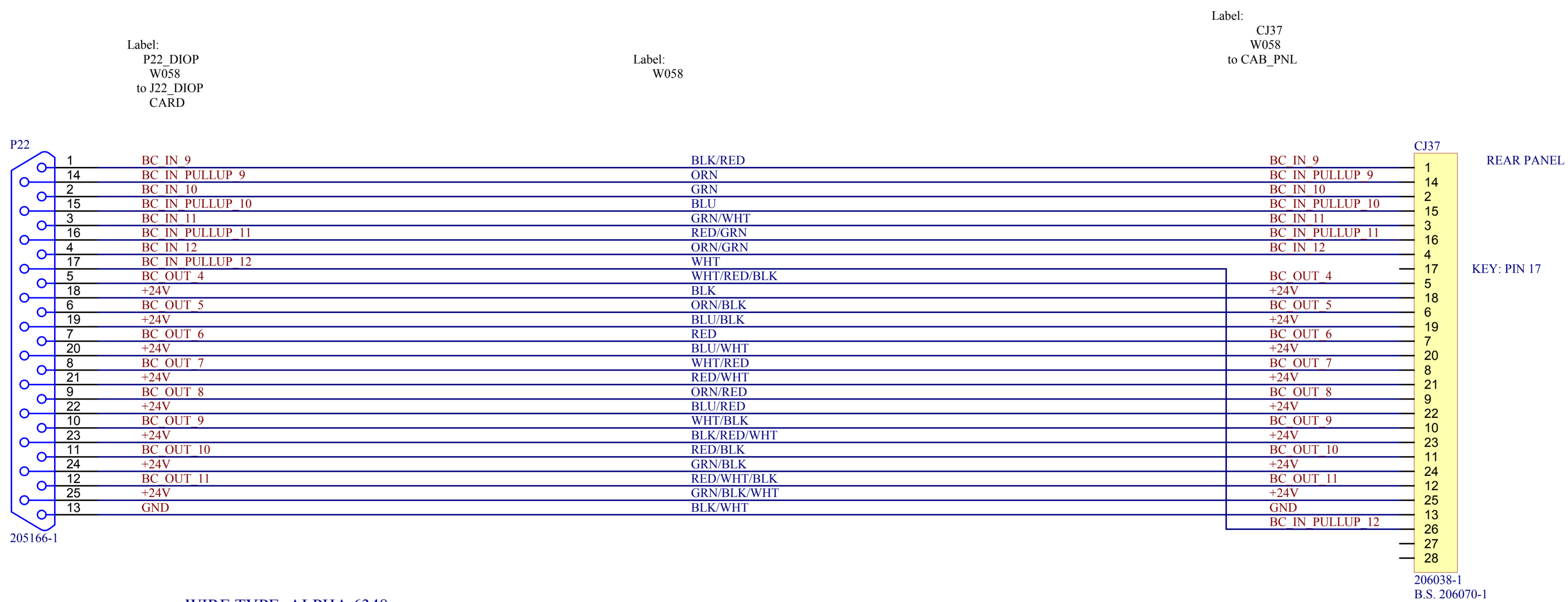
EOS Technologies, Inc.
3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE
APF Mirror Cover Control Interface

DOCUMENT NUMBER
SCH-5376-4

SIZE
A3

EastConfig SCH-5376-4 SHEET 55 OF 64



WIRE TYPE: ALPHA 6348
LENGTH: 48"

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PRINTED 12/8/2009 4:07:16 PM
TEMPLATE: Eost_tabloid_SUBS

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3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

APF Mirror Cover Hand Paddle Cable

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig

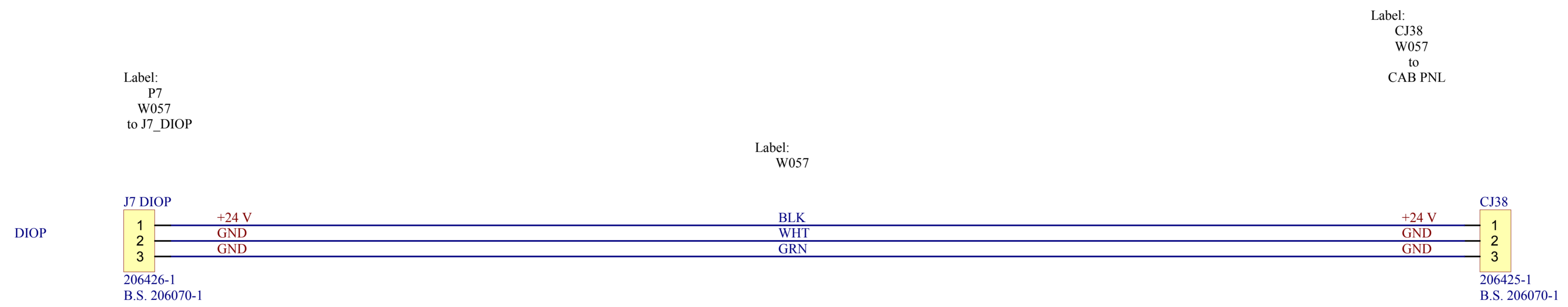
SCH-5376-4

SHEET 56

OF

64

M1 MIRROR COVER POWER



WIRE TYPE: BELDEN P-136-49-MSHA
LENGTH: 72"

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TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

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TUCSON, ARIZONA 85706 USA

TITLE

APF Mirror Cover Power

DOCUMENT NUMBER

SCH-5376-4

SIZE

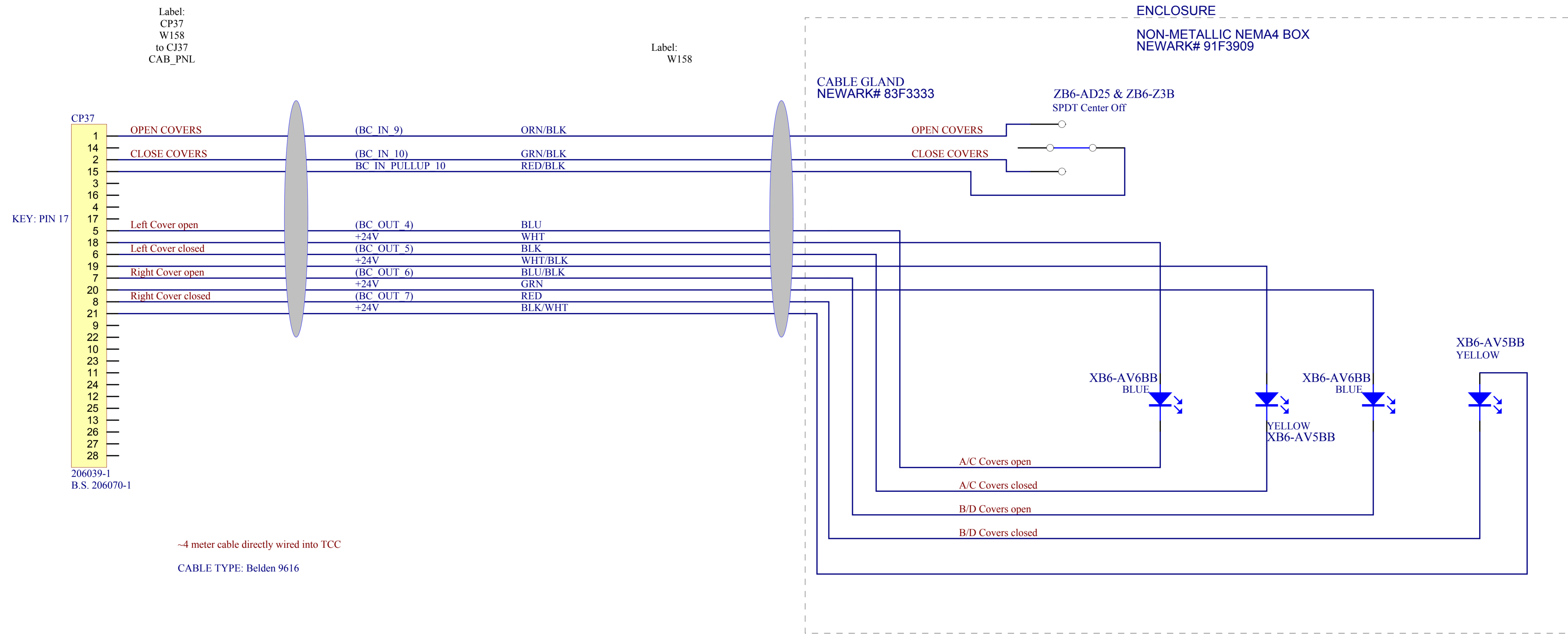
A3

EastConfig

SCH-5376-4

SHEET 57 OF

64



CP37
1
14
2
15
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16
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17
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18
6
19
7
20
8
21
9
22
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11
24
12
25
13
26
14
27
15
28

KEY: PIN 17

206039-1
B.S. 206070-1

Label:
CP37
W158
to CJ37
CAB_PNL

Label:
W158

ENCLOSURE
NON-METALLIC NEMA4 BOX
NEWARK# 91F3909

CABLE GLAND
NEWARK# 83F3333

ZB6-AD25 & ZB6-Z3B
SPDT Center Off

XB6-AV6BB
BLUE

XB6-AV6BB
BLUE

XB6-AV5BB
YELLOW

A/C Covers open

A/C Covers closed

B/D Covers open

B/D Covers closed

~4 meter cable directly wired into TCC

CABLE TYPE: Belden 9616

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PRINTED 12/8/2009 4:07:18 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

APF Mirror Cover Hand Paddle Assembly

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig

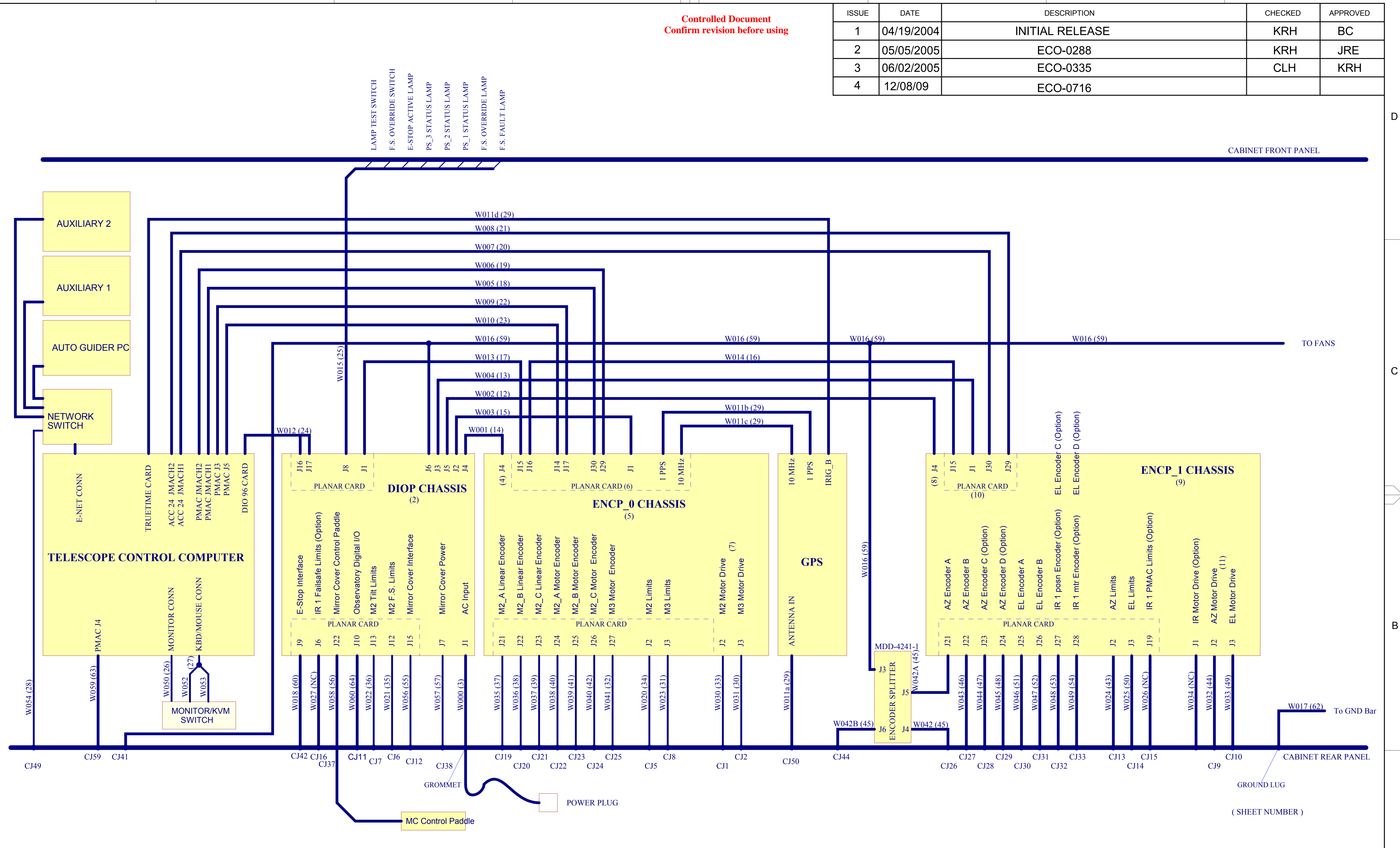
SCH-5376-4

SHEET 58

OF 64

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ISSUE	DATE	DESCRIPTION	CHECKED	APPROVED
1	04/19/2004	INITIAL RELEASE	KRH	BC
2	05/05/2005	ECO-0288	KRH	JRE
3	06/02/2005	ECO-0335	CLH	KRH
4	12/08/09	ECO-0716		



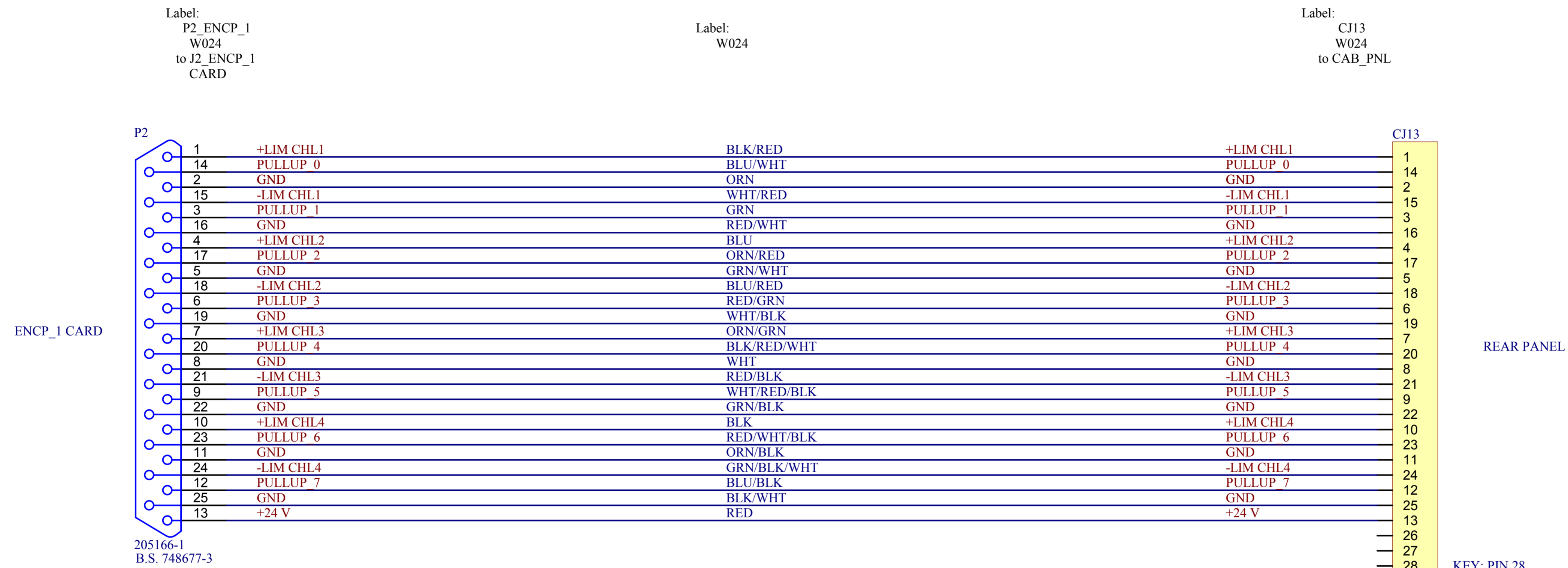
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DESIGN	DATE	EOS Technologies, Inc. 3160 E. TRANSCON WAY, Suite 180 TUCSON, ARIZONA 85706 USA LICK APF Cabinet Block Diagram
J. Mark Croft	6/2/05	
CHECKED	DATE	
Cal L. Haines	6/2/05	
APPROVED	DATE	
Kevin R. Harris	6/2/05	DOCUMENT NUMBER
CONFIGURED	DATE	SCH-5376-4
Edith Hatch	6/3/05	SIZE
		A3
		EastConfig SCH-5376-4 SHEET 1 OF 64

FILE C:\Ggay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\APF_CAB_BLK_DIAG.SCHDOC
 PRINTED 12/8/2009 4:07:19 PM
 TEMPLATE: Eost_tabloid_SUBS

SCH-5376-4 LICK APF Cabinet Block Diagram



WIRE TYPE: ALPHA 6348
LENGTH: 59"

AZIMUTH LIMIT INPUTS (Includes Failsafes)
ACC24 LIMIT INPUTS [1..4]

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PRINTED 12/8/2009 4:07:20 PM
TEMPLATE: Eost_tabloid_SUBS

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TUCSON, ARIZONA 85706 USA

TITLE

APF Azimuth Limit Inputs

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig

SCH-5376-4

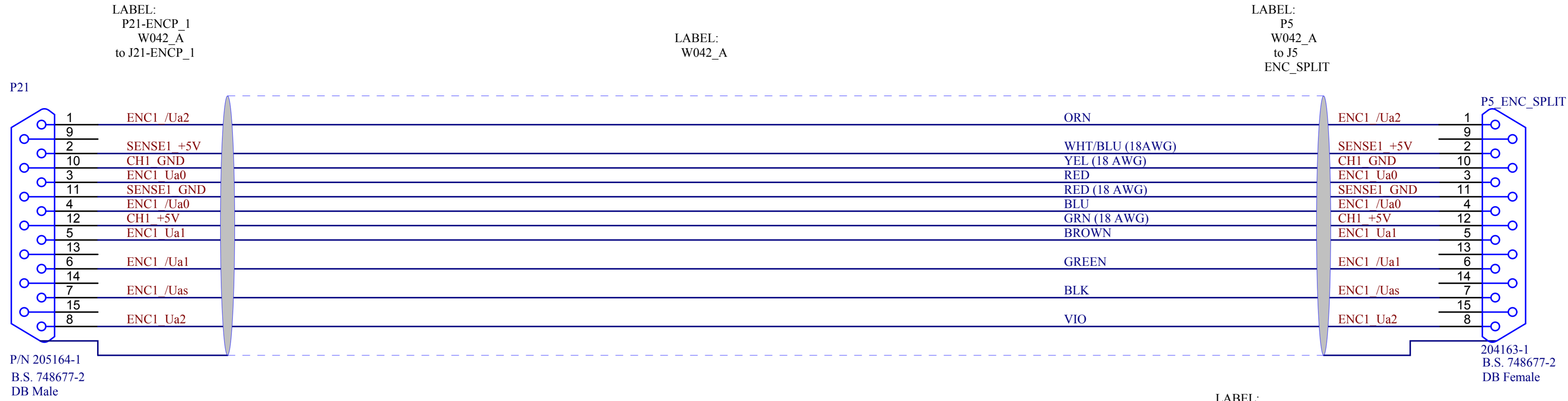
SHEET 43

OF

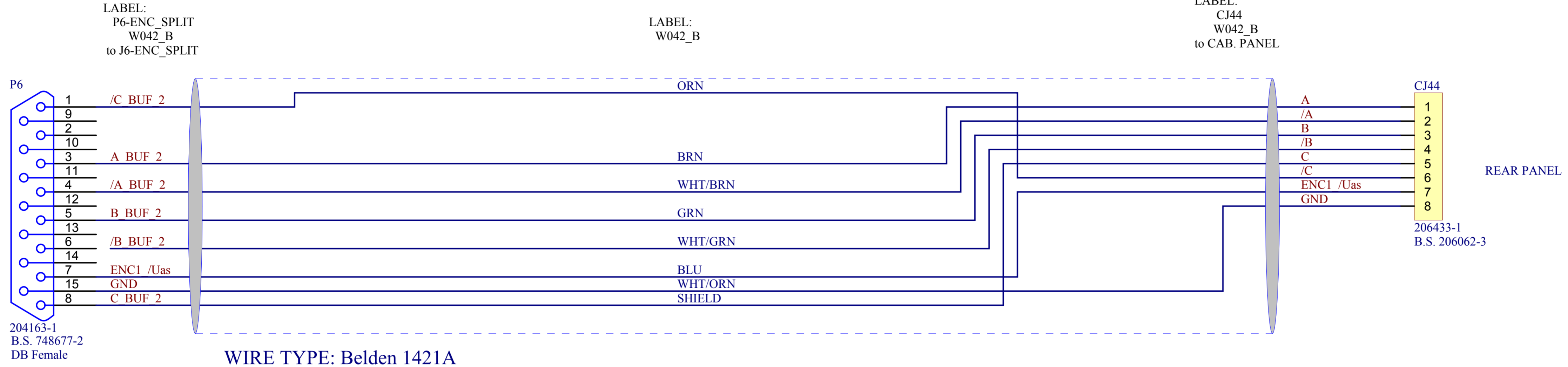
64

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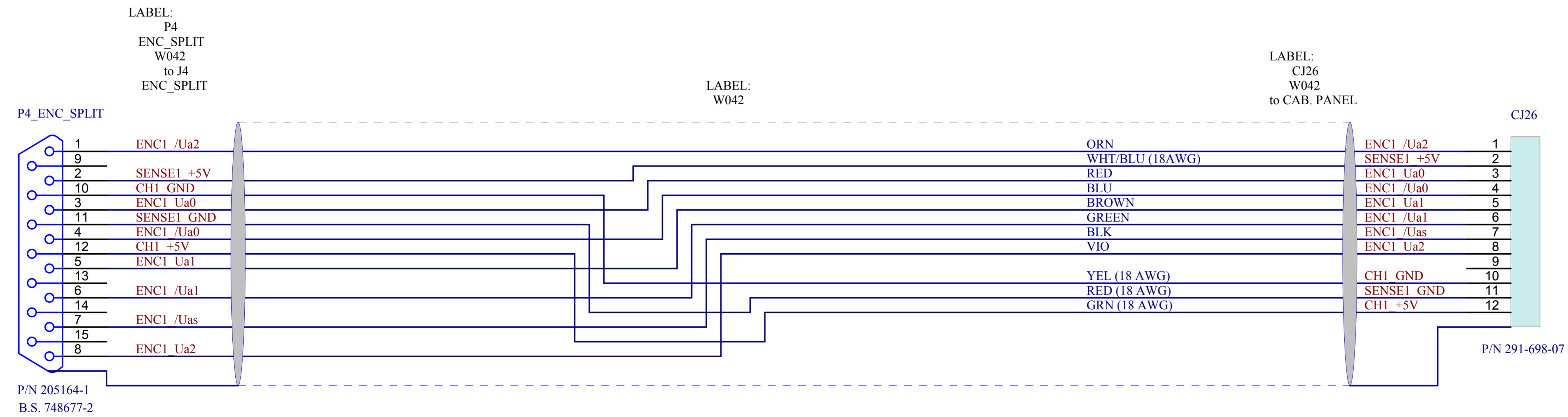
LENGTH: 30 in.



LENGTH: 60 in.



LENGTH: 60 in.



THE SHIELD OF THIS CABLE WAS CONNECTED TO THE METAL CASE OF THE CONNECTOR DURING CABLE ASSEMBLY FABRICATION

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 PRINTED 12/8/2009 4:07:20 PM
 TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
 TUCSON, ARIZONA 85706 USA

TITLE
APF Azimuth Encoder A

DOCUMENT NUMBER SIZE

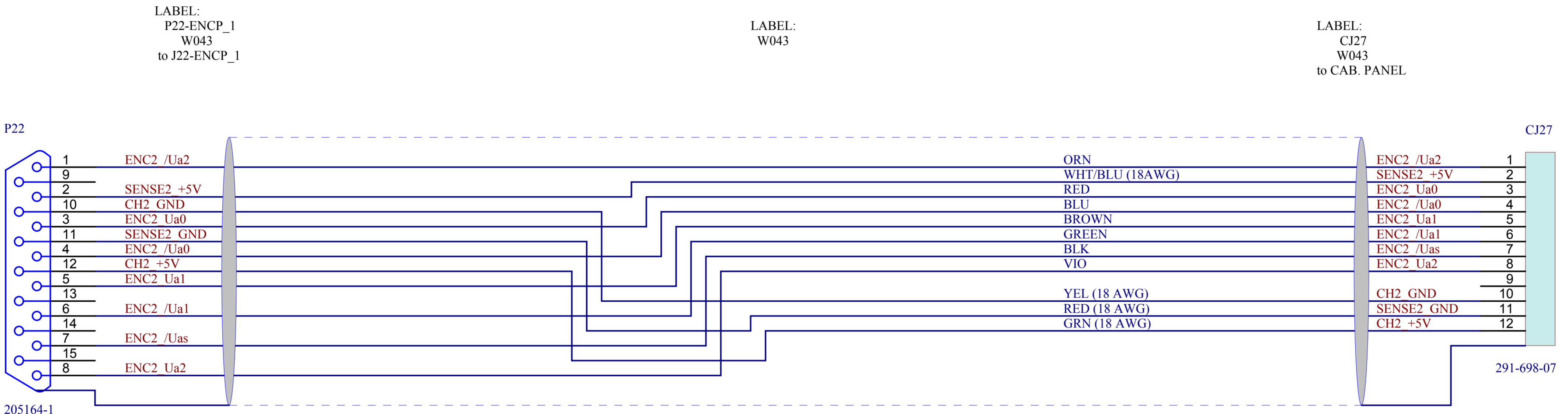
SCH-5376-4

A3

EastConfig SCH-5376-4 SHEET 45 OF 64

APF Azimuth Encoder A

SCH-5376-4



205164-1
B.S. 748677-2

LENGTHS: 60 in.
WIRE TYPE: PETSCHKE OR HEIDENHAIN 244-957-01

291-698-07
THE SHIELD OF THIS CABLE WAS CONNECTED TO THE METAL CASE OF THE CONNECTOR DURING CABLE ASSEMBLY FABRICATION

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PRINTED 12/8/2009 4:07:21 PM
TEMPLATE: Eost_tabloid_SUBS

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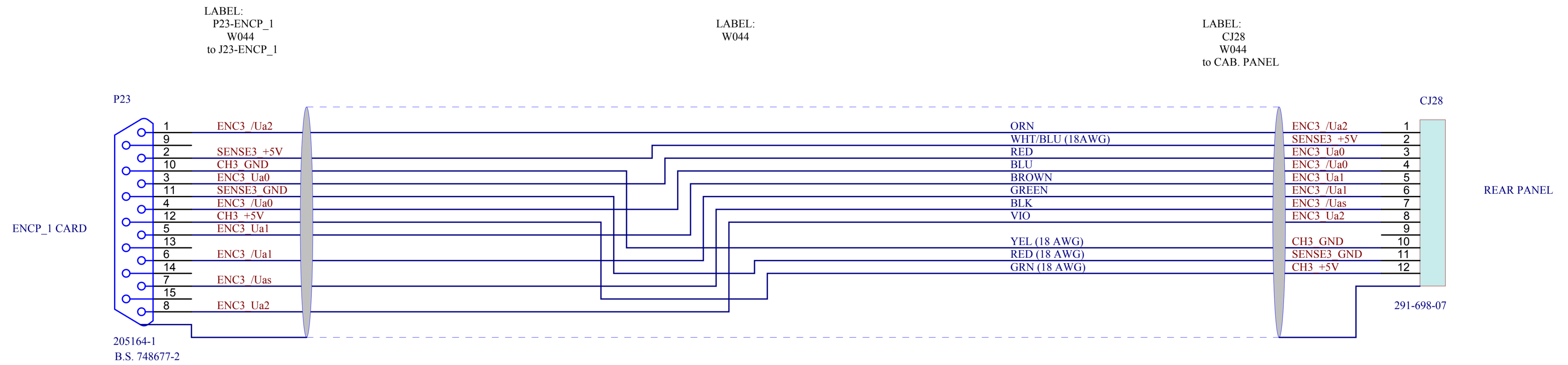
TITLE
APF Azimuth Encoder B

DOCUMENT NUMBER
SCH-5376-4

EastConfig SCH-5376-4 SHEET 46 OF 64

SIZE
A3

APF Azimuth Encoder B
SCH-5376-4



LENGTHS: 60 in.
WIRE TYPE: PETSCHKE OR HEIDENHAIN 244-957-01

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PRINTED 12/8/2009 4:07:22 PM
TEMPLATE: Eost_tabloid_SUBS

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3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

APF Azimuth Encoder C

DOCUMENT NUMBER

SCH-5376-4

SIZE

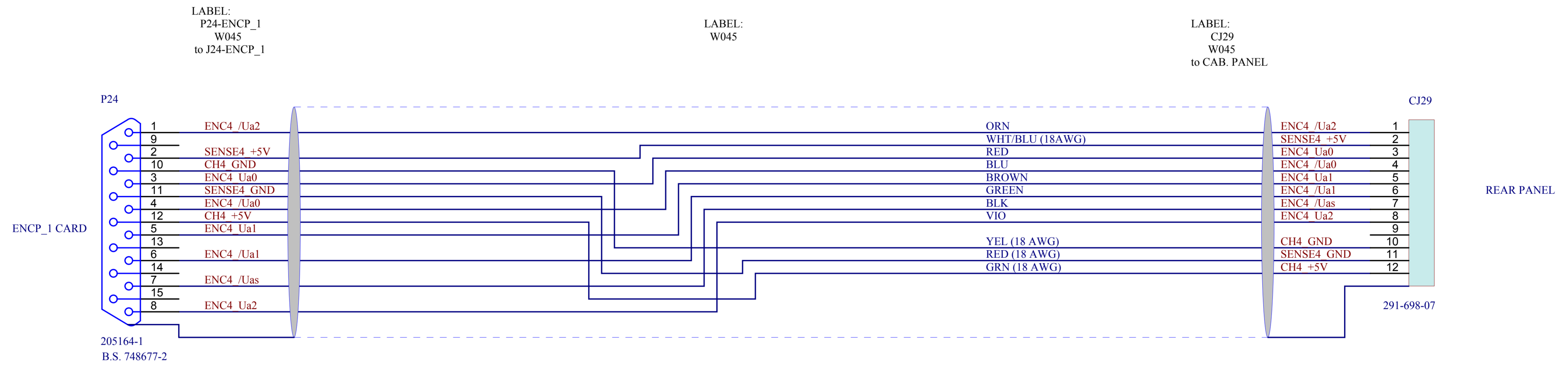
A3

EastConfig

SCH-5376-4

SHEET 47 OF

64



LENGTHS: 60 in.
WIRE TYPE: PETSCHKE OR HEIDENHAIN 244-957-01

THE SHIELD OF THIS CABLE WAS CONNECTED TO THE METAL CASE OF THE CONNECTOR DURING CABLE ASSEMBLY FABRICATION

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PRINTED 12/8/2009 4:07:23 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
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TITLE

APF Azimuth Encoder D

DOCUMENT NUMBER

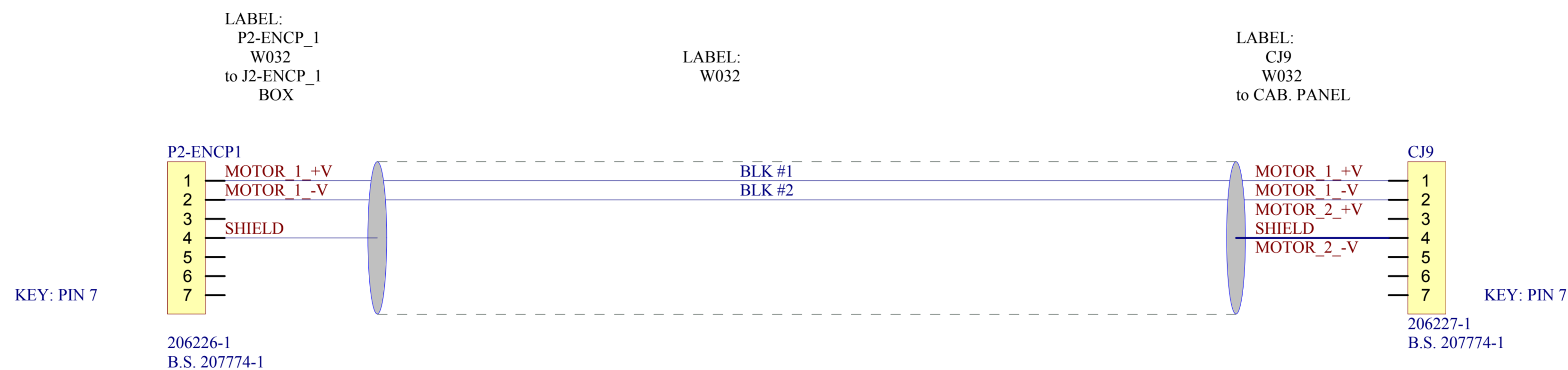
SCH-5376-4

SIZE

A3

EastConfig SCH-5376-4

SHEET 48 OF 64



AZIMUTH MOTOR DRIVE

LENGTHS: 65.5"
WIRE TYPE: Alpha 87703CY

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMPlazdrvW032.SCHDOC
PRINTED 12/8/2009 4:07:24 PM
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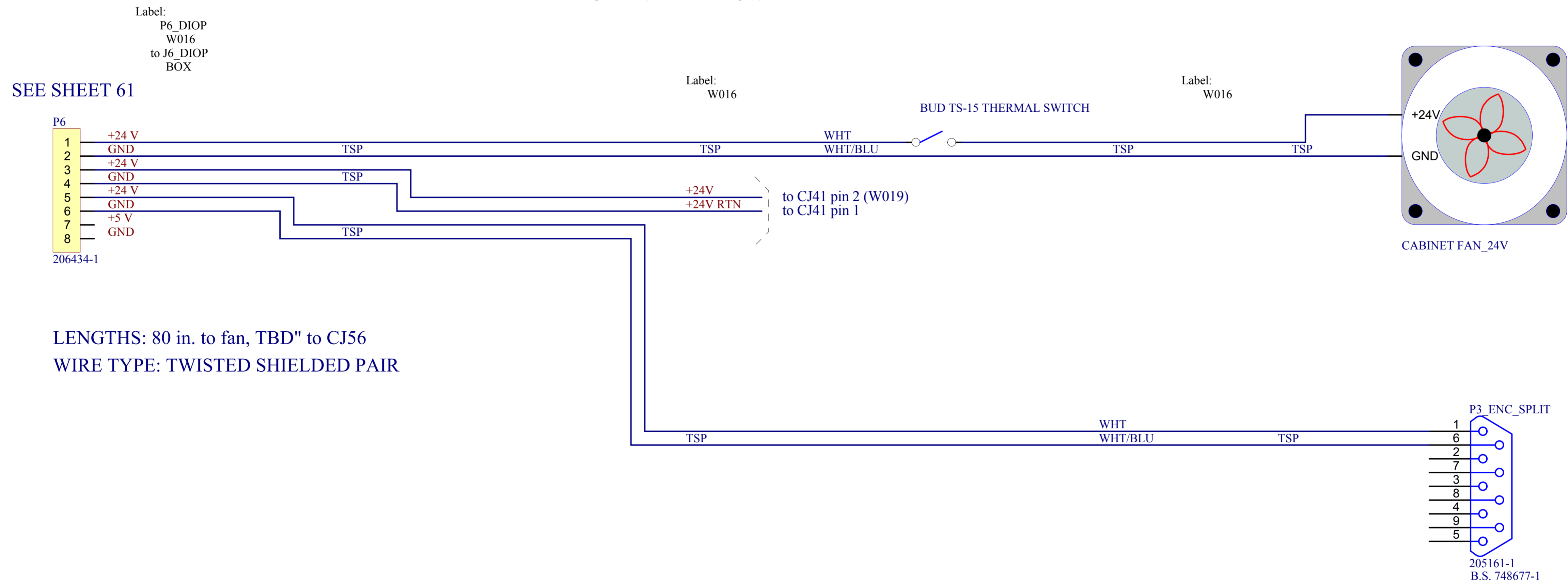
TITLE
APF Azimuth Motor Drive

DOCUMENT NUMBER
SCH-5376-4

SIZE
A3

EostConfig SCH-5376-4 SHEET 44 OF 64

CABINET FAN POWER



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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\cabfanW016.SCHDOC
PRINTED 12/8/2009 4:07:24 PM
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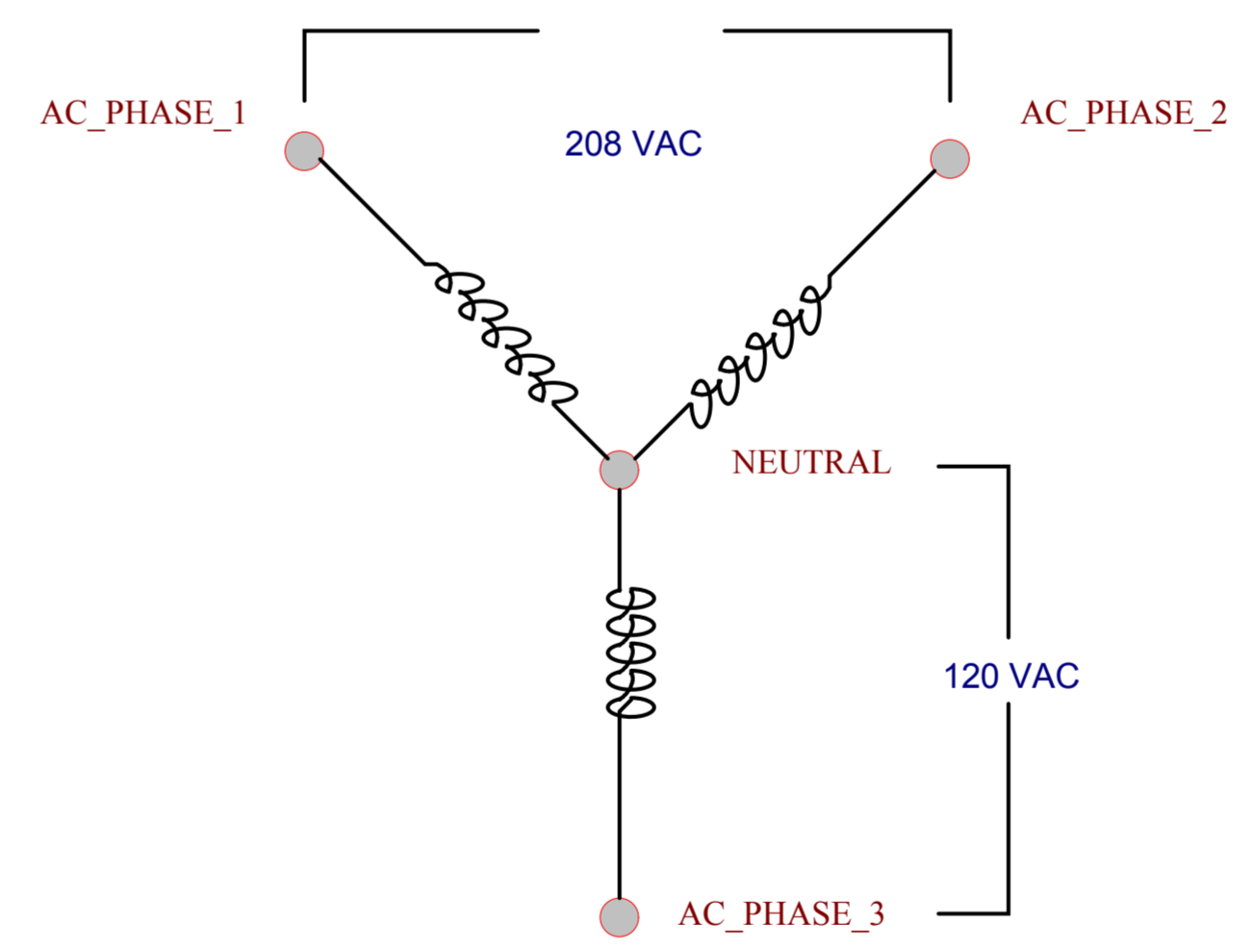
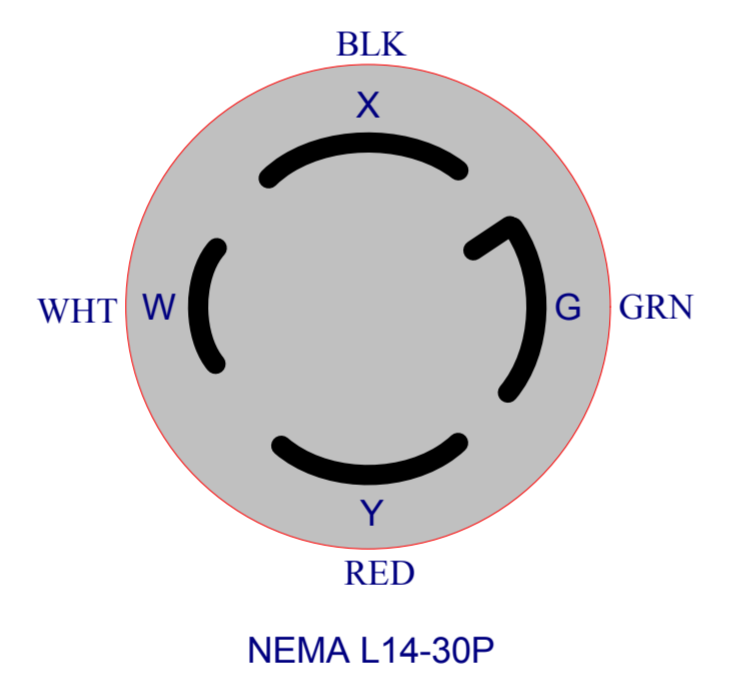
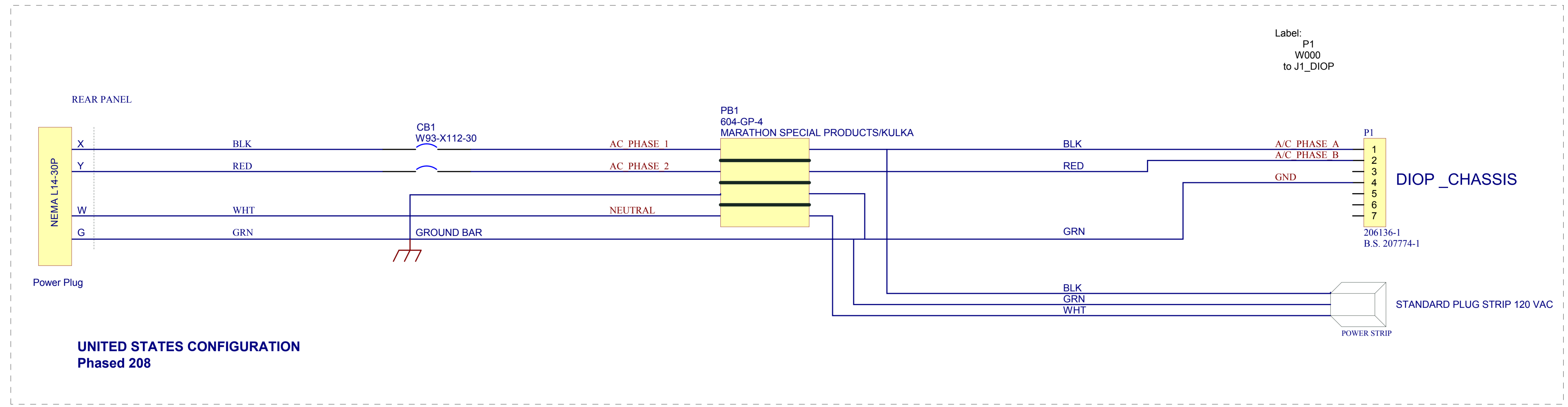
EOS Technologies, Inc.
3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE
APF TCC Cooling Fan

DOCUMENT NUMBER
SCH-5376-4

EostConfig SCH-5376-4 SHEET 59 OF 64

SIZE
A3



LENGTHS:

- 1) BACK PANEL TO CB1: 228.6CM (90")
- 2) CB1 TO AC PWR DIST: 15.25CM (6")
- 3) AC PWR DIST TO AC LAMP: 20.3CM (8")
- 4) AC PWR DIST TO P6: 267.5CM (85")
- 5) CB1 TO COMPUTER: 119.4CM (47")

WIRE TYPE:

LENGTHS 1 & 2 & 4 ARE Alpha 87605
 LENGTH NO. 3 IS 2EA 20GA.
 LENGTH N0.5 IS THE POWER CORD PROVIDED BY THE MANF. CUT TO LENGTH.

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 PRINTED 12/8/2009 4:07:25 PM
 TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE
LICK APF Cabinet Power Connection

DOCUMENT NUMBER
SCH-5376-4

SIZE
A3

EastConfig SCH-5376-4 SHEET 3 OF 70

DIO96 INTERFACE

Controlled Document
Confirm revision before using

DIOP

P16
71602-050

P17
71602-050

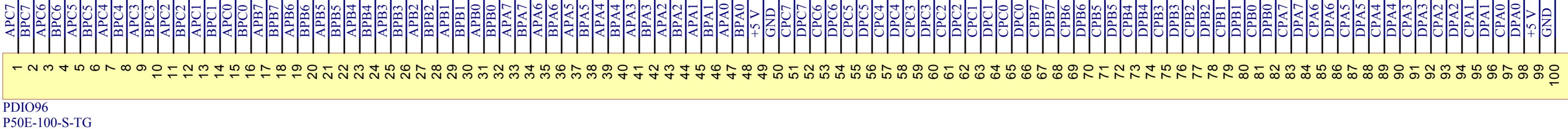
LABEL:
P16-DIOP
W012
to J16-DIOP

LABEL:
P17-DIOP
W012
to J17-DIOP

LABEL:
W012

LABEL:
W012

LABEL:
PDIO 96 CARD
W012
to JDIO 96 CARD



WIRE TYPE:843-191-2801-050
LENGTHS: 18"

DIO_96

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\dio96W012.SCHDOC
PRINTED 12/8/2009 4:07:26 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.
3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE
LICK APF DIOP to DIO96 Interface

DOCUMENT NUMBER	SIZE
SCH-5376-4	A3
EastConfig SCH-5376-4	SHEET 24 OF 64

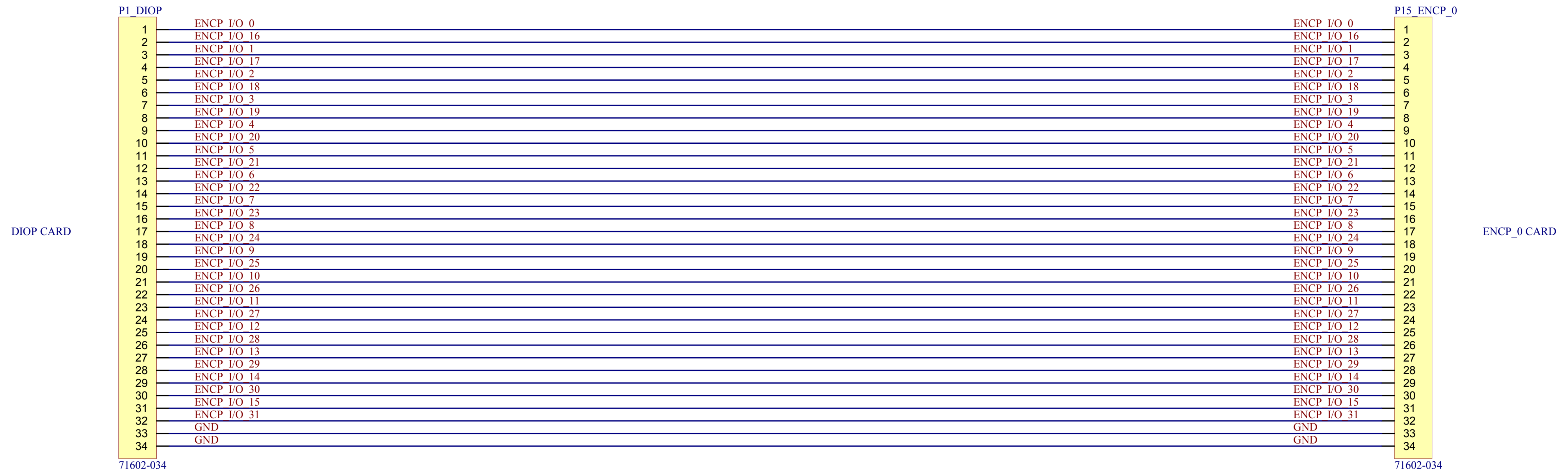
SCH-5376-4 LICK APF DIOP to DIO96 Interface

I/O BUS DIOP to ENCP_0

Label:
P1_DIOP
W013
to J1_DIOP
CARD

Label:
W013

Label:
P15_ENCP_0
W013
to J15_ENCP_0



WIRE TYPE: 34 Conductor Ribbon Cable
LENGTH: 37"

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\diopencpW013.SCHDOC
PRINTED 12/8/2009 4:07:27 PM
TEMPLATE: Eost_tabloid_SUBS

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3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

LICK APF ENCP0 to DIOP Interface

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig

SCH-5376-4

SHEET 17

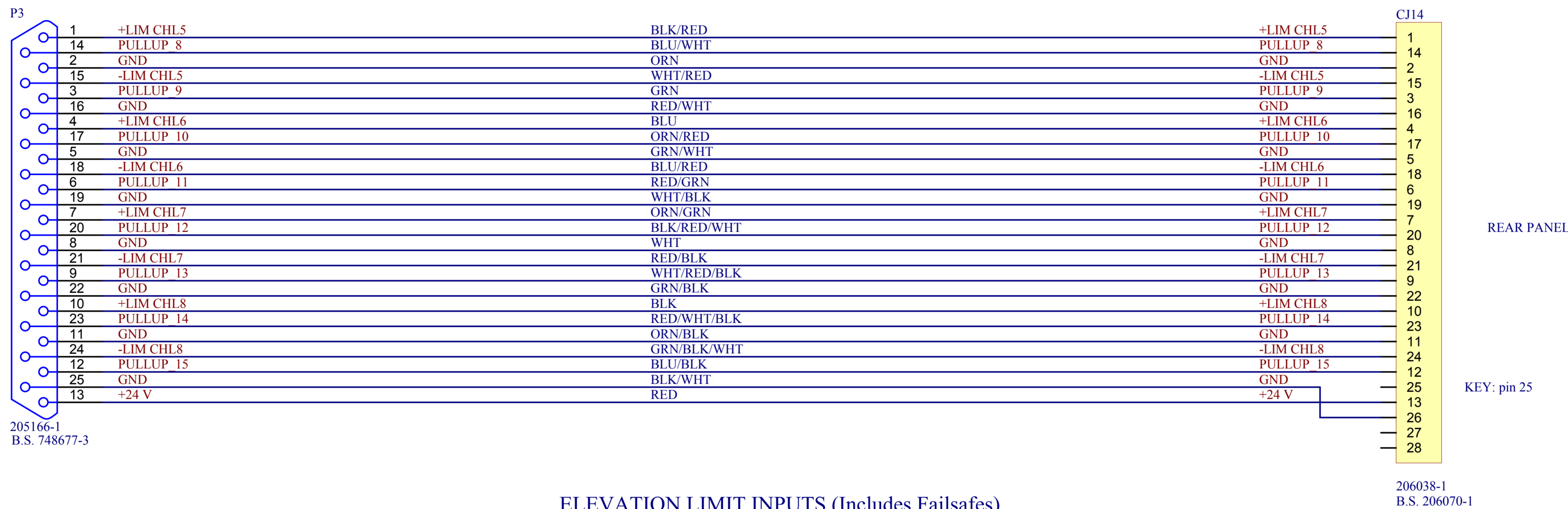
OF

64

Label:
P3_ENCP_1
W025
to J3_ENCP_1

Label:
W025

Label:
CJ14
W025
to CAB_PNL



WIRE TYPE: ALPHA 6348
LENGTH: 59.5"

ELEVATION LIMIT INPUTS (Includes Failsafes)
ACC24 LIMIT INPUTS [5..8]

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PRINTED 12/8/2009 4:07:28 PM
TEMPLATE: Eost_tabloid_SUBS

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3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

APF Elevation Limit Inputs

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

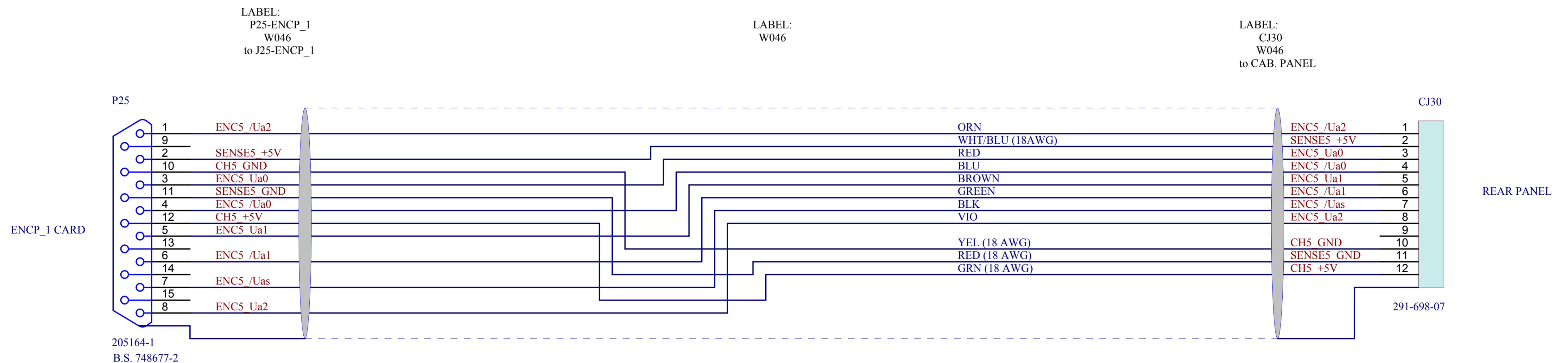
EastConfig

SCH-5376-4

SHEET 50

OF

64



THE SHIELD OF THIS CABLE WAS CONNECTED TO THE METAL CASE OF THE CONNECTOR DURING CABLE ASSEMBLY FABRICATION

LENGTHS: 60 in.
WIRE TYPE: PETSCHKE OR HEIDENHAIN 244-957-01

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\elaencW046.SCHDOC
PRINTED 12/8/2009 4:07:29 PM
TEMPLATE: Eost_tabloid_SUBS

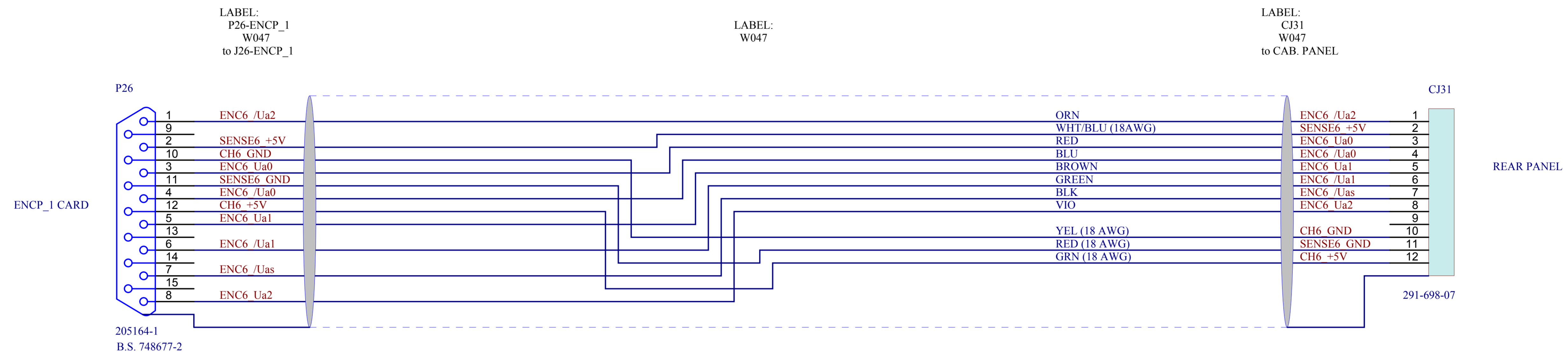
EOS Technologies, Inc.
3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE
APF Elevation Encoder A

DOCUMENT NUMBER	SCH-5376-4	SIZE	A3
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EostConfig	SCH-5376-4	SHEET 51 OF 64
------------	------------	----------------

APF Elevation Encoder A
SCH-5376-4



LENGTHS: 60 in.
WIRE TYPE: PETSCHKE OR HEIDENHAIN 244-957-01

THE SHIELD OF THIS CABLE WAS CONNECTED TO THE METAL CASE OF THE CONNECTOR DURING CABLE ASSEMBLY FABRICATION

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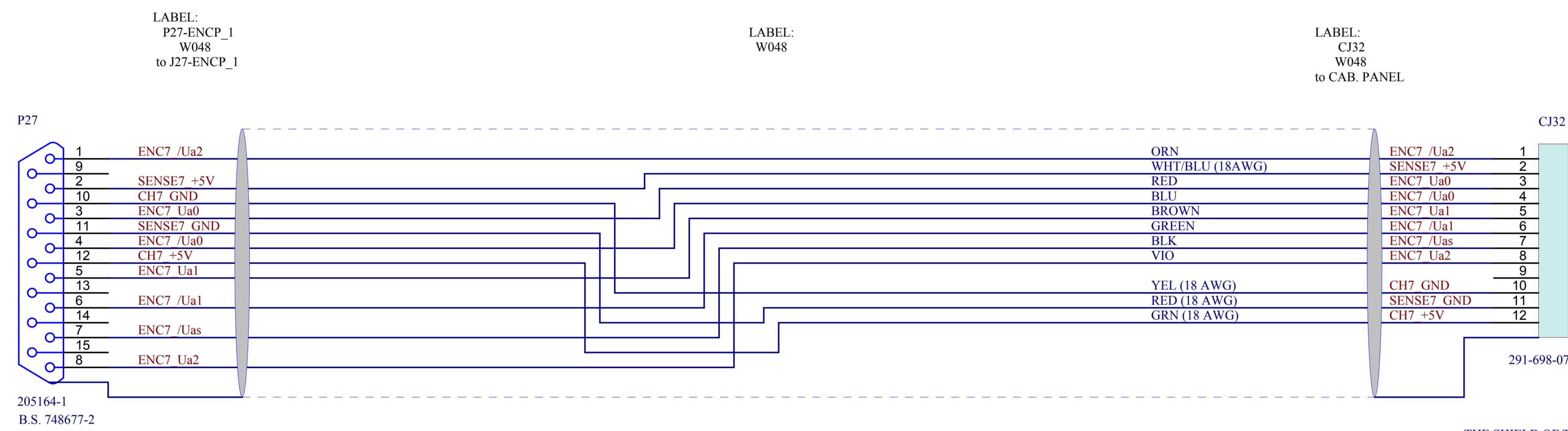
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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMPlabencW047.SCHDOC
PRINTED 12/8/2009 4:07:29 PM
TEMPLATE: Eost_tabloid_SUBS

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3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE
APF Elevation Encoder B

DOCUMENT NUMBER	SIZE
SCH-5376-4	A3
EastConfig SCH-5376-4	SHEET 52 OF 64



LENGTHS: 60 in.
WIRE TYPE: PETSCHKE OR HEIDENHAIN 244-957-01

THE SHIELD OF THIS CABLE WAS CONNECTED TO THE METAL CASE OF THE CONNECTOR DURING CABLE ASSEMBLY FABRICATION

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PRINTED 12/8/2009 4:07:30 PM
TEMPLATE: Eost_tabloid_SUBS

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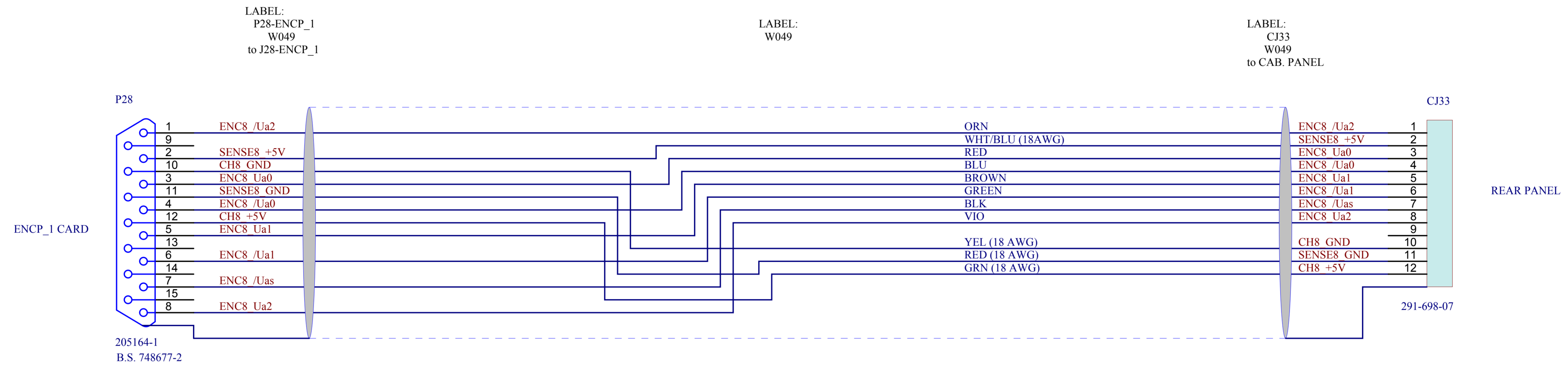
TITLE
APF Elevation Encoder C

DOCUMENT NUMBER
SCH-5376-4

EastConfig SCH-5376-4 SHEET 53 OF 64

SIZE
A3

APF Elevation Encoder C
SCH-5376-4



LENGTHS: 60 in.
WIRE TYPE: PETSCHKE OR HEIDENHAIN 244-957-01

THE SHIELD OF THIS CABLE WAS CONNECTED TO THE METAL CASE OF THE CONNECTOR DURING CABLE ASSEMBLY FABRICATION

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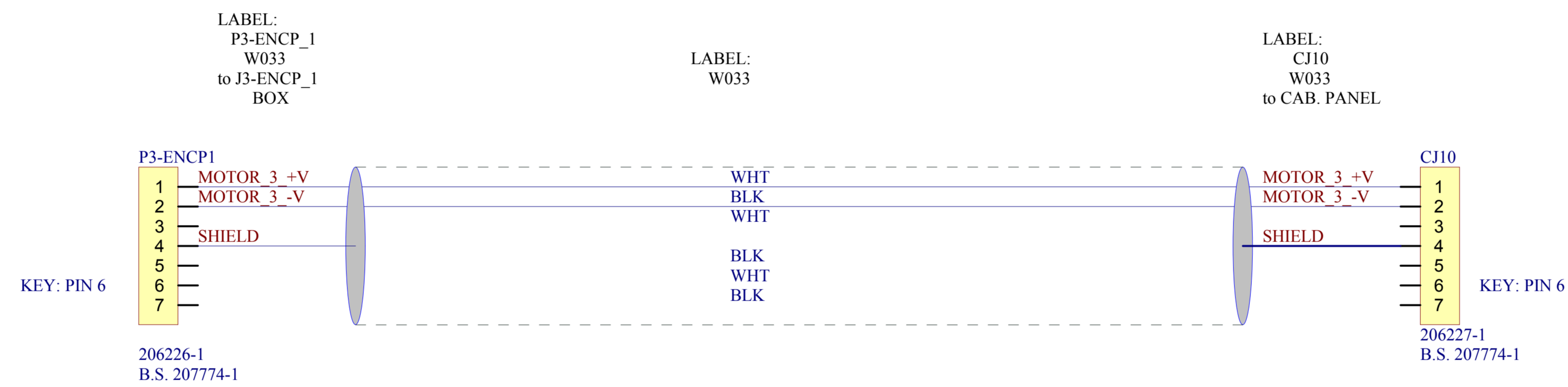
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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\elencW049.SCHDOC
PRINTED 12/8/2009 4:07:31 PM
TEMPLATE: Eost_tabloid_SUBS

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3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE
APF Elevation Encoder D

DOCUMENT NUMBER	SCH-5376-4	SIZE	A3
EostConfig	SCH-5376-4	SHEET 54	OF 64



ELEVATION MOTOR DRIVE

LENGTHS: 64"
WIRE TYPE: Alpha 87703CY

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\eldrvW033.SCHDOC
PRINTED 12/8/2009 4:07:32 PM
TEMPLATE: Eost_tabloid_SUBS

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3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

APF Elevation Motor Drive

DOCUMENT NUMBER

SCH-5376-4

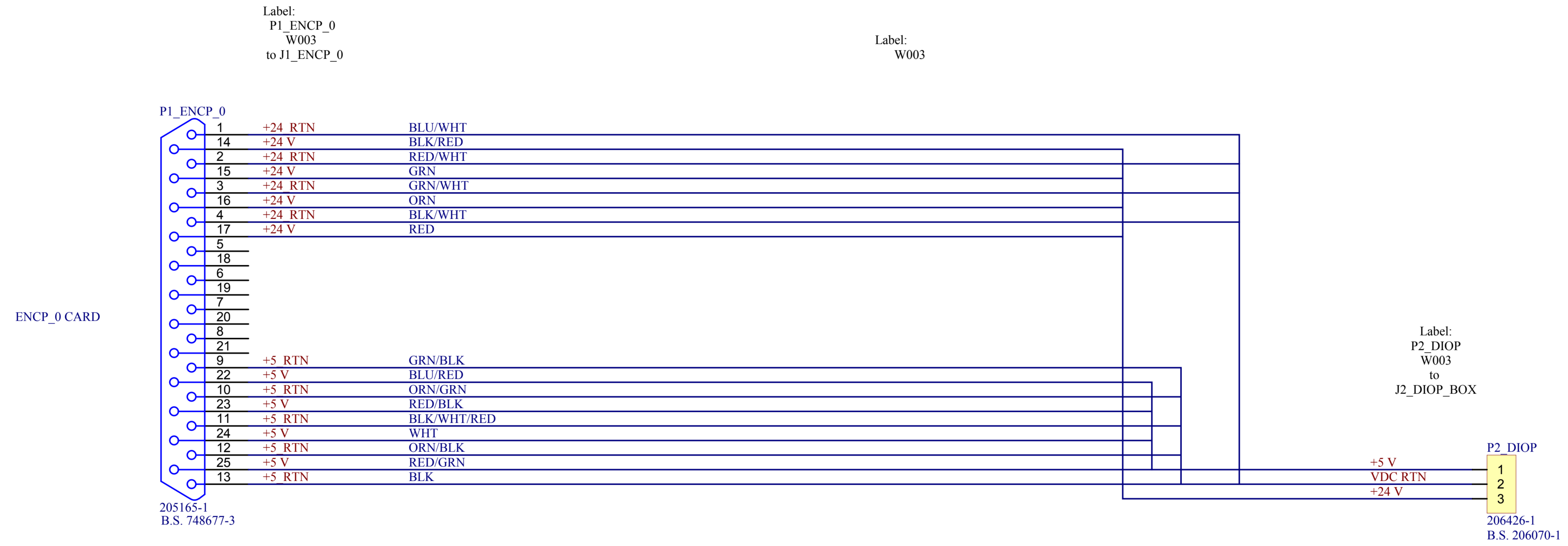
SIZE

A3

EastConfig SCH-5376-4

SHEET 49 OF 64

ENCP_0 CARD POWER



WIRE TYPE: ALPHA 6348
LENGTH: 44"

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMPlencp0cardpowerW003.SCHDOC
PRINTED 12/8/2009 4:07:32 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

LICK APF ENCP0 Card Power

DOCUMENT NUMBER

SCH-5376-4

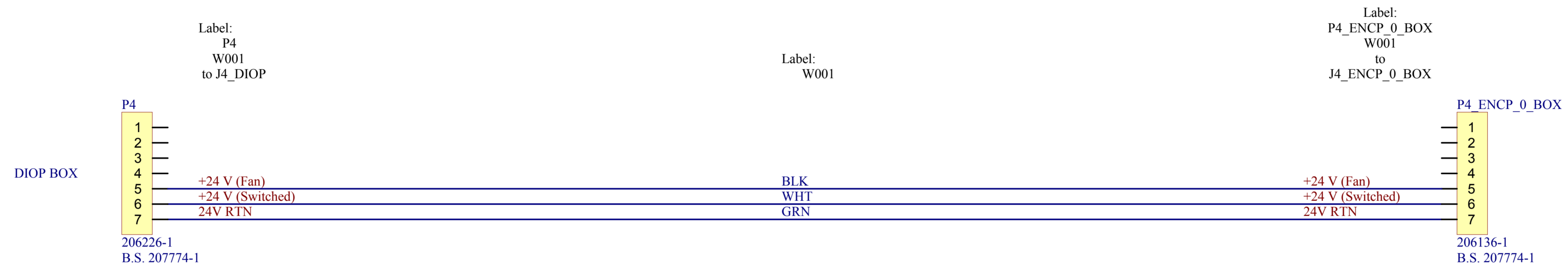
SIZE

A3

EastConfig SCH-5376-4

SHEET 15 OF 64

ENCP_0 AMPLIFIER POWER



WIRE TYPE: BELDEN 3 COND. 12 GA.
LENGTH: 46"

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMPlencp0powerW001.SCHDOC
PRINTED 12/8/2009 4:07:33 PM
TEMPLATE: Eost_tabloid_SUBS

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3160 E. TRANSCON WAY, Suite 180
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TITLE

LICK APF ENCP0 Power

DOCUMENT NUMBER

SCH-5376-4

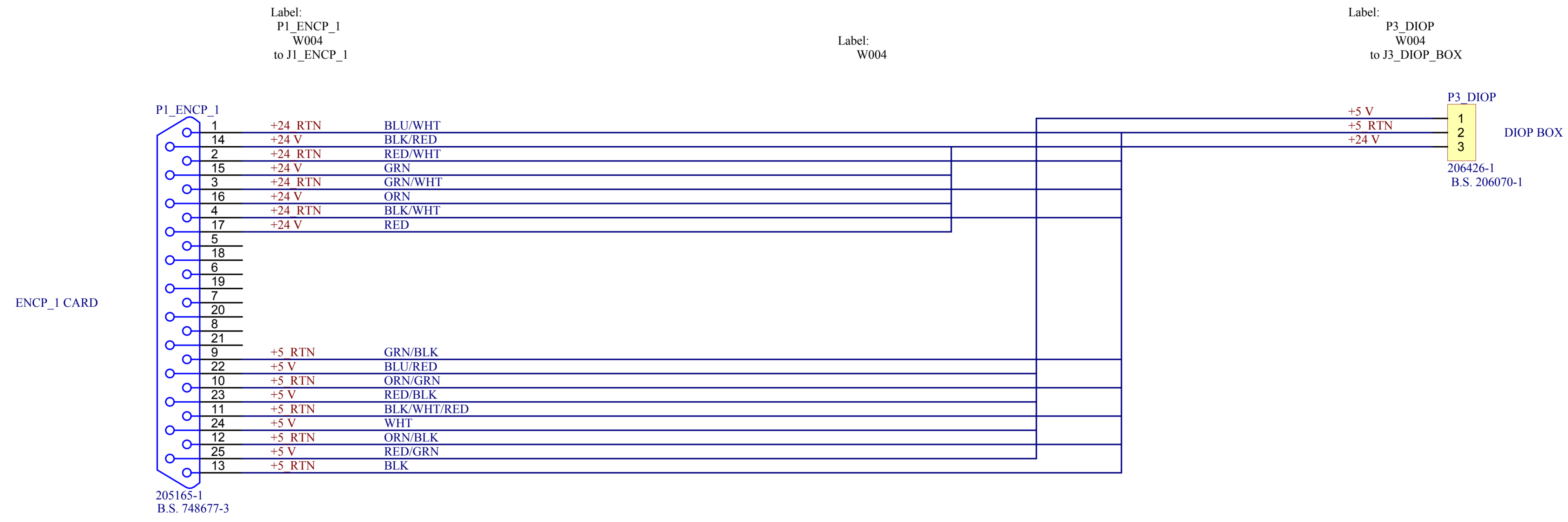
SIZE

A3

EostConfig SCH-5376-4

SHEET 14 OF 64

ENCP_1 CARD POWER



WIRE TYPE: ALPHA 6348
LENGTH: 41"

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMPlencp1cardpowerW004.SCHDOC
PRINTED 12/8/2009 4:07:34 PM
TEMPLATE: Eost_tabloid_SUBS

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TITLE

LICK APF ENCP1 Card Power

DOCUMENT NUMBER

SCH-5376-4

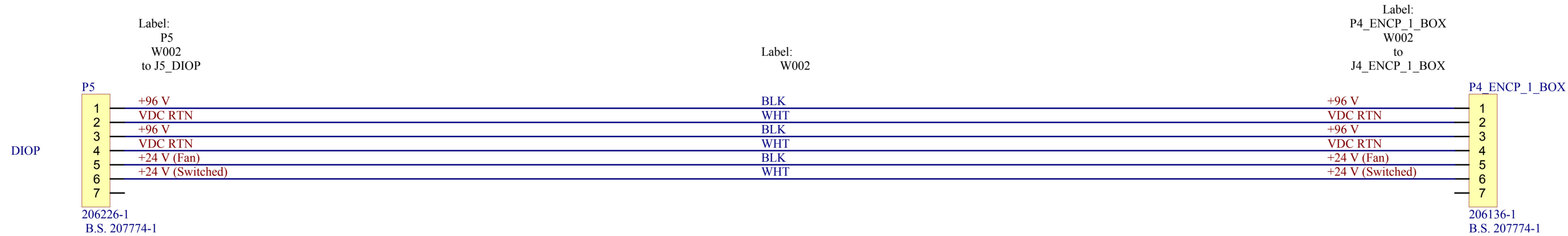
SIZE

A3

EastConfig SCH-5376-4

SHEET 13 OF 64

ENC1 AMPLIFIER POWER



LENGTH: 47"
WIRE TYPE: PVAZBD6298

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMPlencp1powerW002.SCHDOC
PRINTED 12/8/2009 4:07:35 PM
TEMPLATE: Eost_tabloid_SUBS

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TITLE

LICK APF ENCP1 Power

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig SCH-5376-4

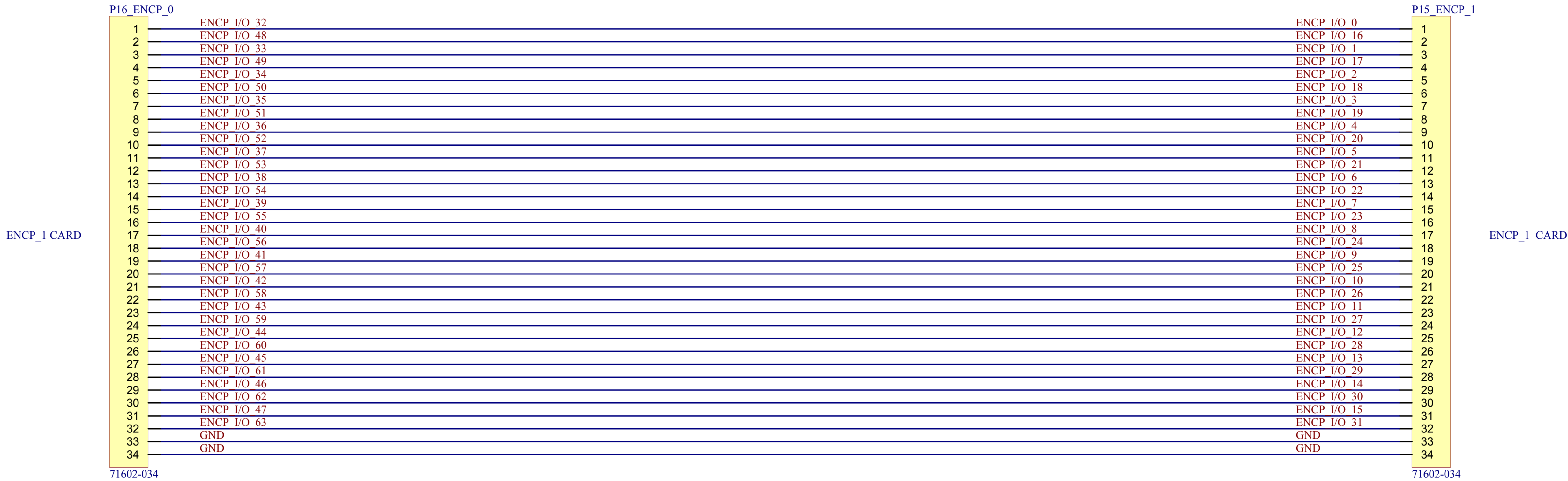
SHEET 12 OF 64

I/O BUS ENCP_0 to ENCP_1

Label:
P16_ENCP_0
W014
to J16_ENCP_0
CARD

Label:
W014

Label:
P15_ENCP_1
W014
to J15_ENCP_1
CARD



WIRE TYPE: 34 Conductor Ribbon Cable
LENGTH: 20"

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PRINTED 12/8/2009 4:07:36 PM
TEMPLATE: Eost_tabloid_SUBS

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3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

LICK APF ENCP0 to ENCP1 Interface

DOCUMENT NUMBER

SCH-5376-4

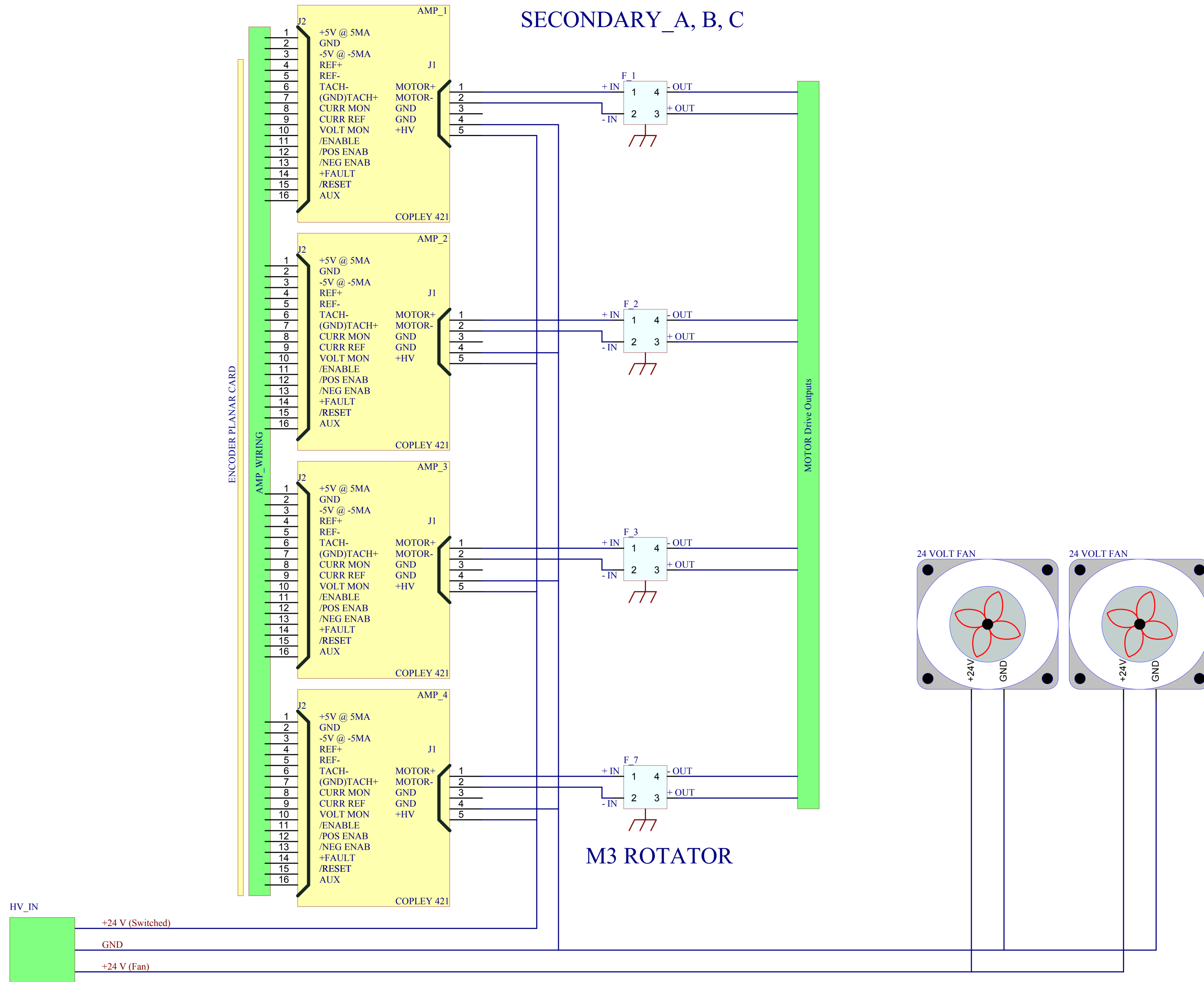
SIZE

A3

EastConfig SCH-5376-4

SHEET 16 OF 64

SECONDARY_A, B, C



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PRINTED 12/8/2009 4:07:36 PM
TEMPLATE: Eost_tabloid_SUBS

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3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

LICK APF ENCP0 Block Diagram

DOCUMENT NUMBER

SCH-5376-4

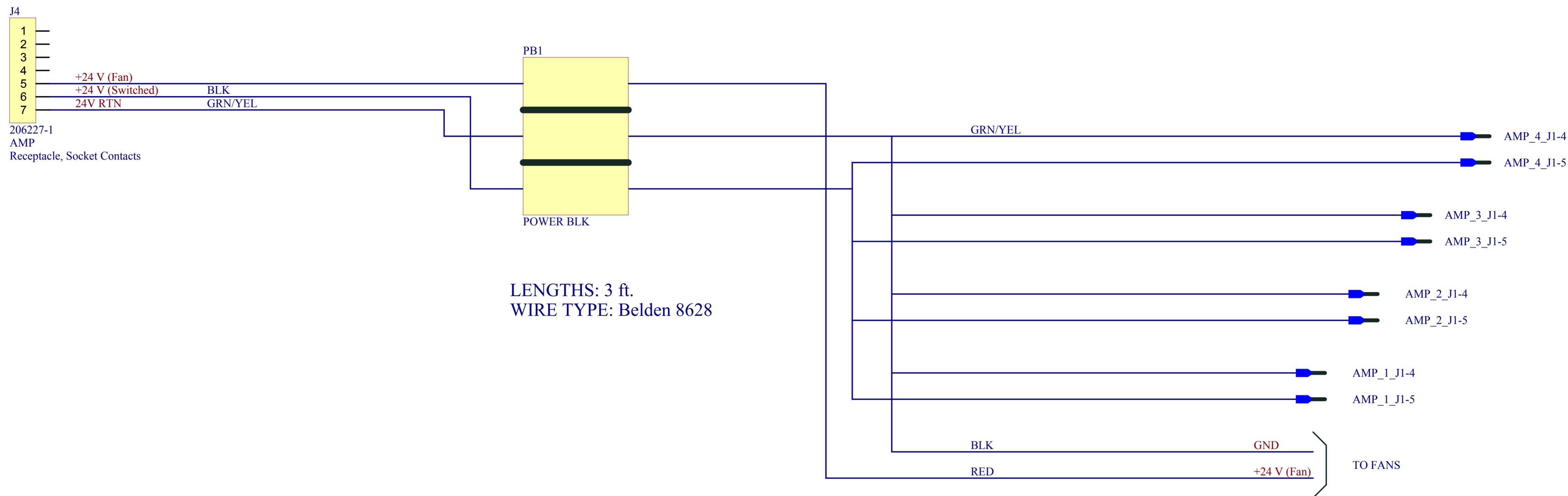
SIZE

A3

EastConfig

SCH-5376-4

SHEET 5 OF 64



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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\HV_IN.SCHDOC
PRINTED 12/8/2009 4:07:37 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

LICK APF ENCP0 Voltage Input

DOCUMENT NUMBER

SCH-5376-4

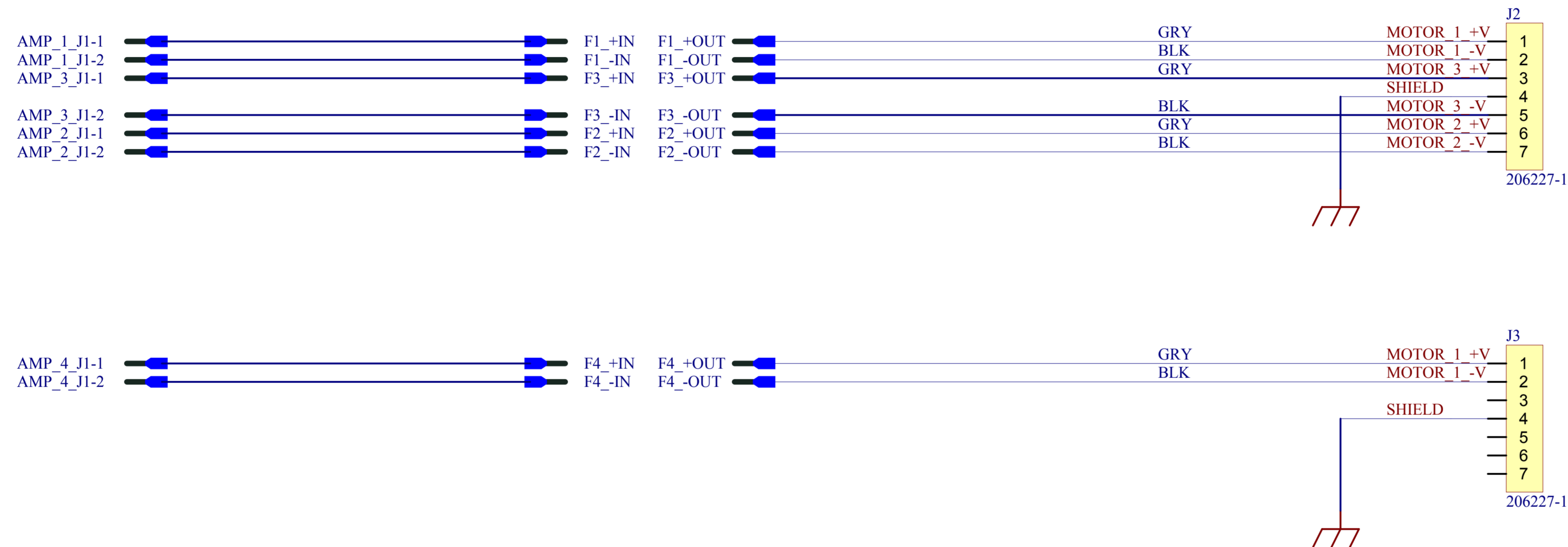
SIZE

A3

EastConfig SCH-5376-4

SHEET 4 OF 64

LICK APF ENCP0 Voltage Input
SCH-5376-4



LENGTHS: 0.6M

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PRINTED 12/8/2009 4:07:38 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

LICK APF ENCP0 Motor Drive Outputs

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

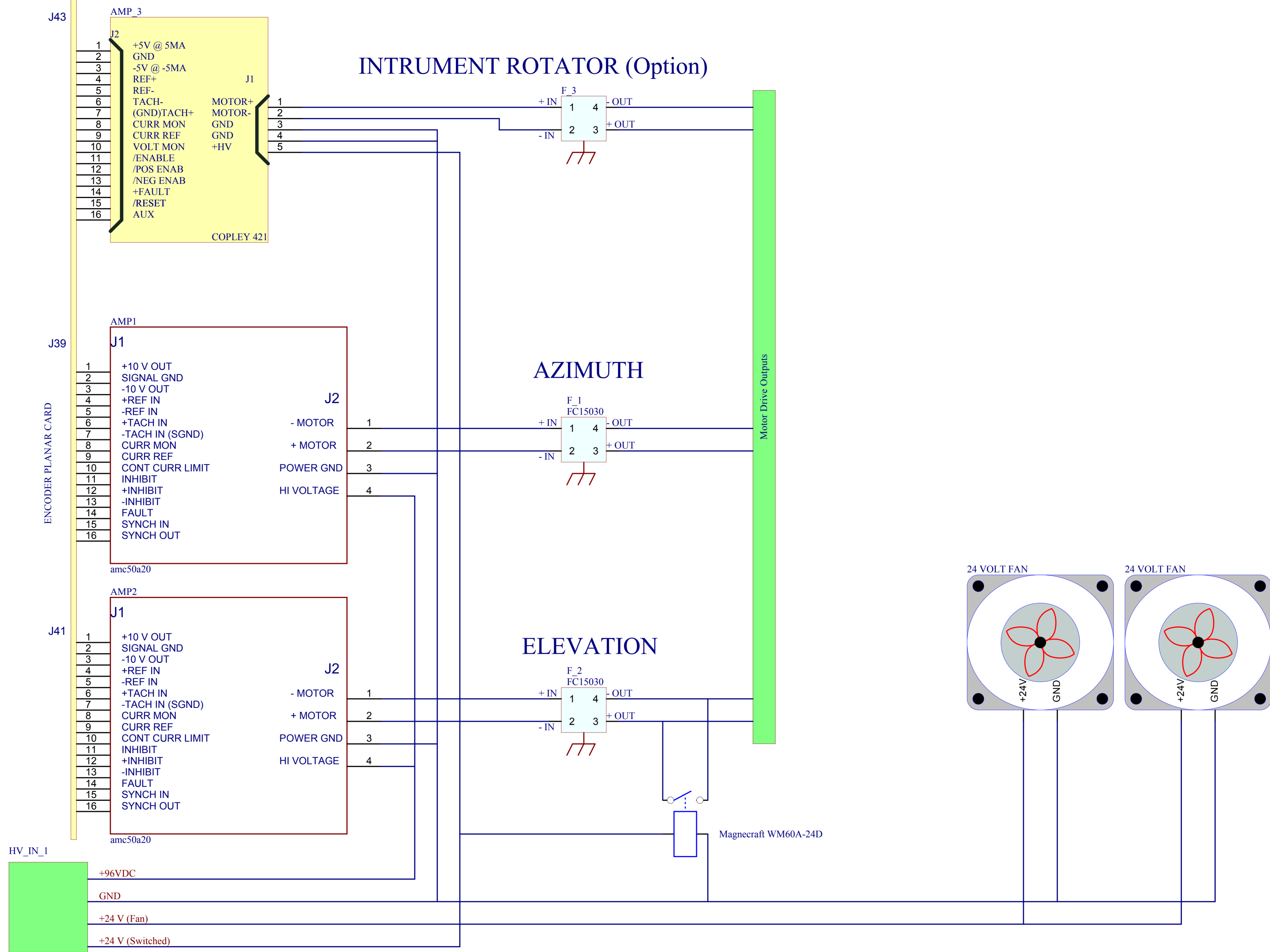
EastConfig

SCH-5376-4

SHEET 7

OF

64



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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\ENCP_1.SCHDOC
PRINTED 12/8/2009 4:07:39 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

LICK APF ENCP1 Block Diagram

DOCUMENT NUMBER

SCH-5376-4

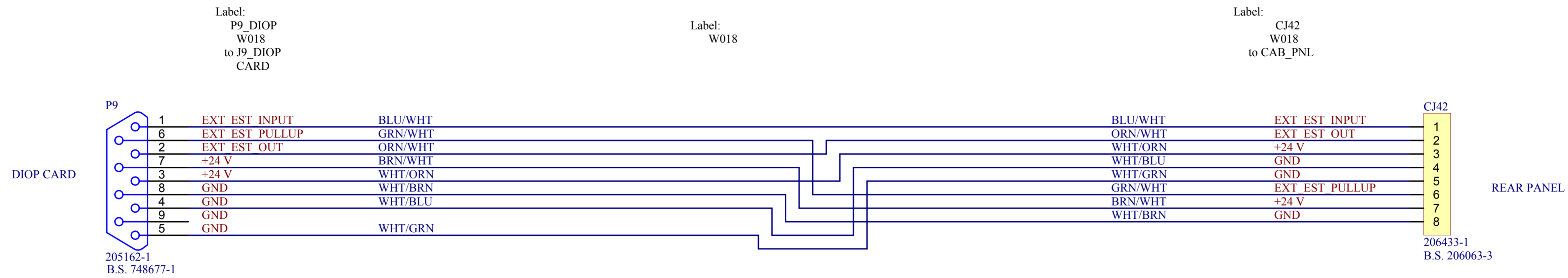
SIZE

A3

EastConfig SCH-5376-4

SHEET 9 OF 64

EXTERNAL ESTOP



WIRE TYPE: BELDEN 1421A
 LENGTH: 60"

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMPl'estopW018.SCHDOC
 PRINTED 12/8/2009 4:07:40 PM
 TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
 TUCSON, ARIZONA 85706 USA

TITLE

APF TCC Emergency Stop Interface

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EostConfig

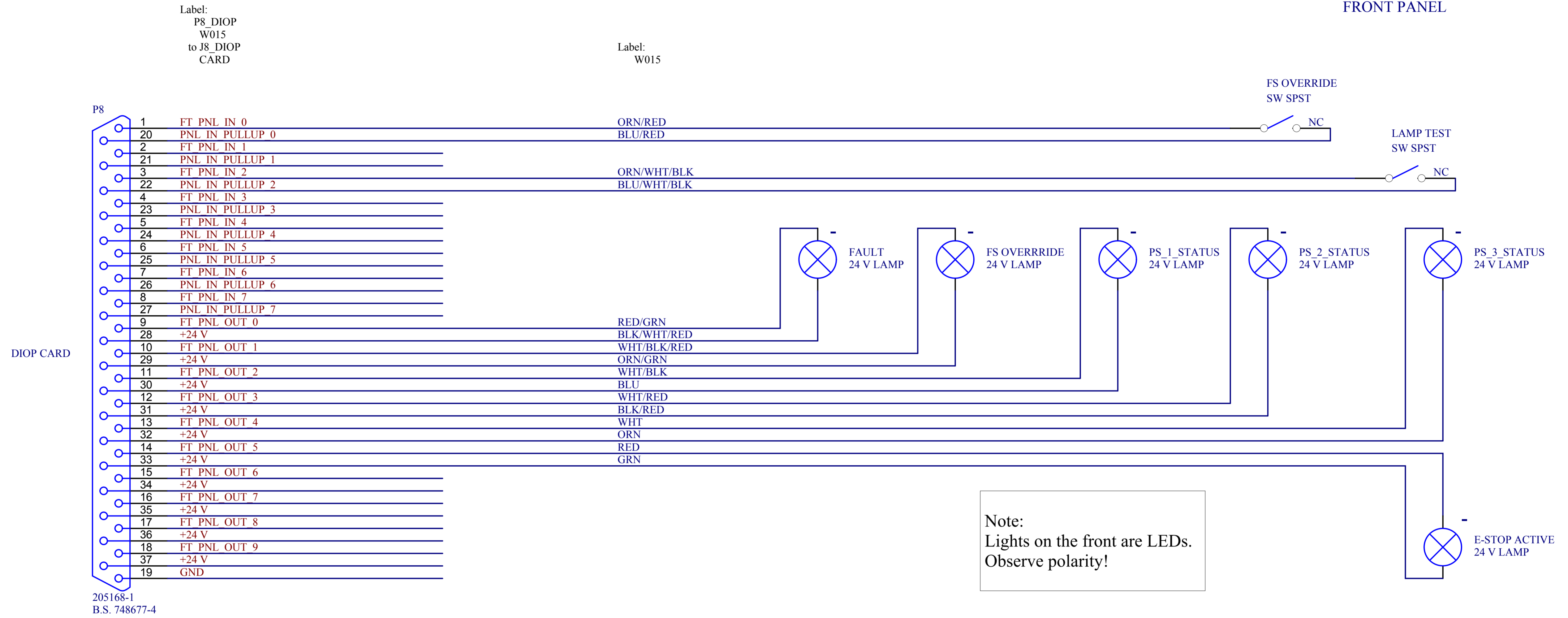
SCH-5376-4

SHEET 60 OF

64

FRONT PANEL I/O CABLE

FRONT PANEL



WIRE TYPE: ALPHA 6348
LENGTH: 80"

Note:
Lights on the front are LEDs.
Observe polarity!

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PRINTED 12/8/2009 4:07:40 PM
TEMPLATE: Eost_tabloid_SUBS

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TITLE

LICK APF Front Panel Interconnects

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig

SCH-5376-4

SHEET 25 OF 64

1 2 3 4 5 6 7 8

D

D

C

C

B

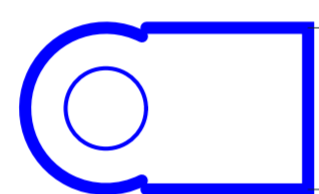
B

A

A

TCC GND. BAR
GROUNDING BOLT

TCC BACK PANEL
GROUNDING BOLT



RINGTERM_LG (NEWARK P/N 84F292)
LABEL:
W017
TELESCOPE
GND
TCC GND BAR

LABEL:
W017

RINGTERM_LG (NEWARK P/N 84F292)
LABEL:
W017
TELESCOPE
GND
TCC PNL BOLT

WIRE TYPE: CAROLPRENE 2GA. WELDING CABLE
LENGTH: 30 In.

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\gndW017.SCHDOC
PRINTED 12/8/2009 4:07:41 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

APF Cabinet Grounding Connection

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig

SCH-5376-4

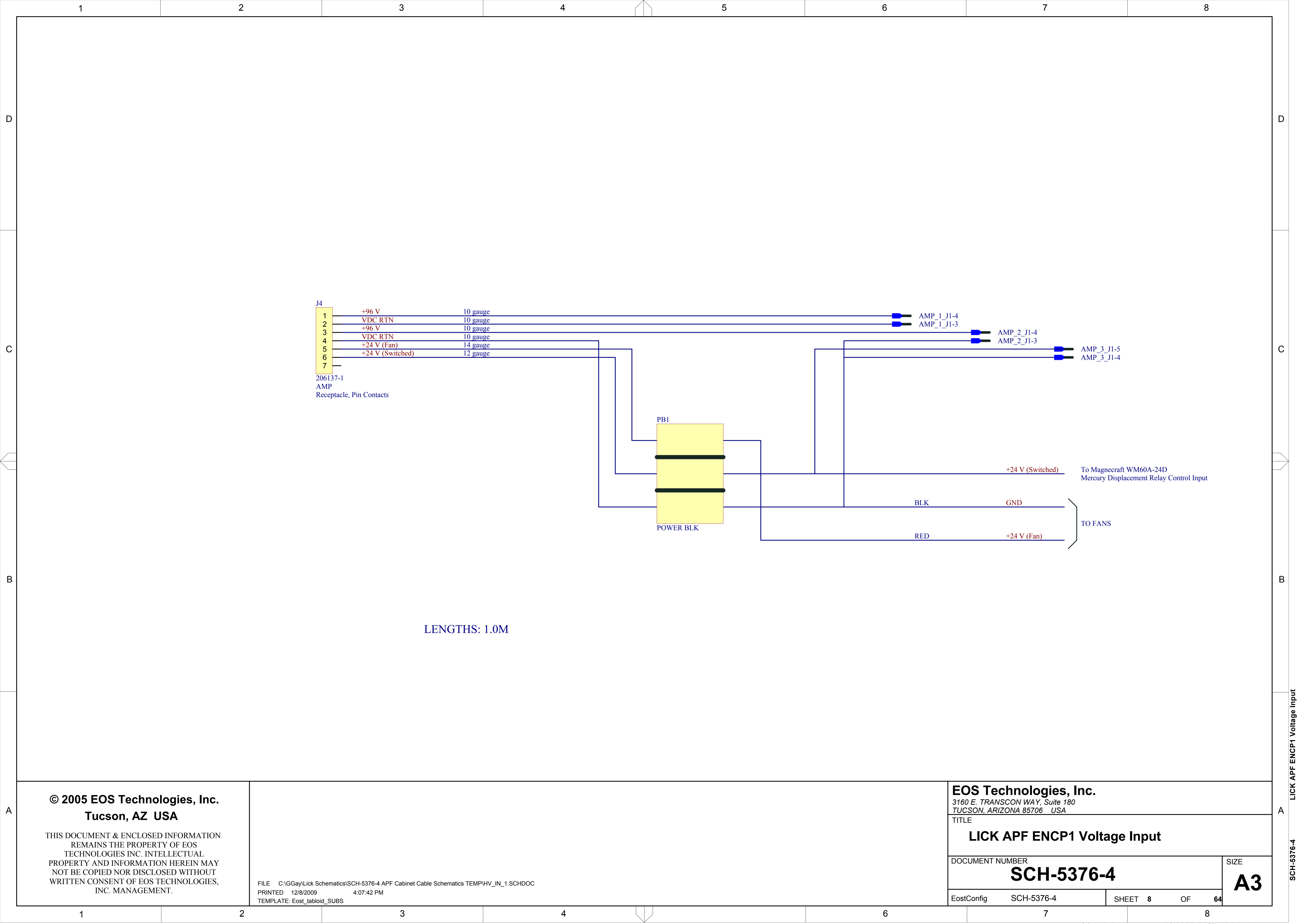
SHEET 62

OF

64

1 2 3 4 5 6 7 8

SCH-5376-4 APF Cabinet Grounding Connection



LENGTHS: 1.0M

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\HV_IN_1.SCHDOC
PRINTED 12/8/2009 4:07:42 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.
3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE
LICK APF ENCP1 Voltage Input

DOCUMENT NUMBER
SCH-5376-4 SIZE
A3

EostConfig SCH-5376-4 SHEET 8 OF 64

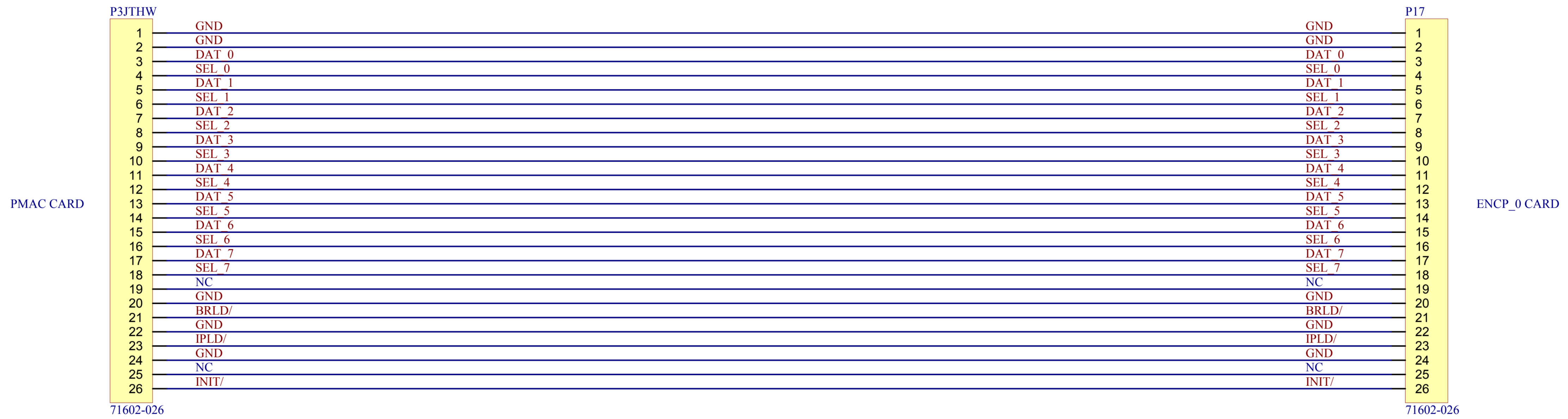
LICK APF ENCP1 Voltage Input
SCH-5376-4

PMAC J3JTHW CONNECTING CABLE

Label:
P3JTHW
W009
to J3JTHW
PMAC_A

Label:
W009

Label:
P17_ENC0_0
W009
to J17_ENC0_0



26 CONDUCTOR RIBBON CABLE
LENGTH: 44"

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\j3jthwW009.SCHDOC
PRINTED 12/8/2009 4:07:43 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

LICK APF PMAC DAT/SEL Interface

DOCUMENT NUMBER

SCH-5376-4

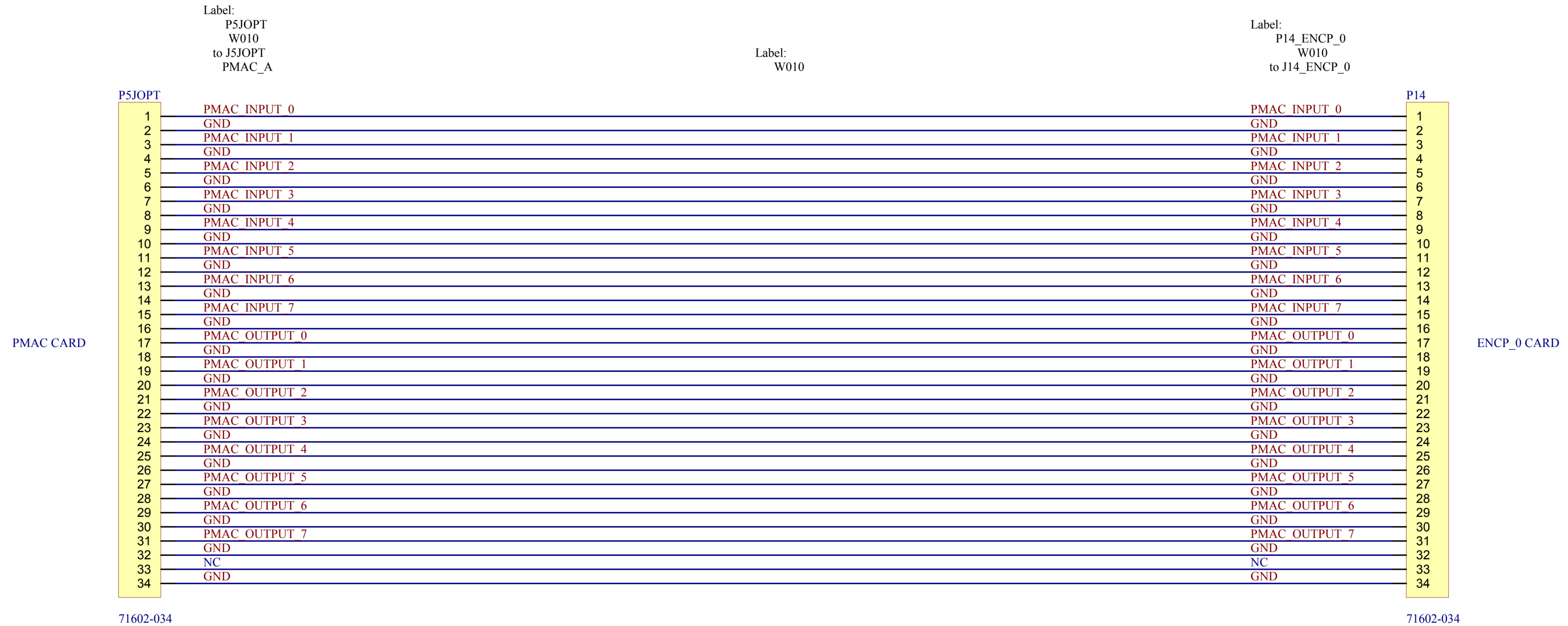
SIZE

A3

EastConfig SCH-5376-4

SHEET 22 OF 64

PMAC J5JOPT CONNECTING CABLE



34 CONDUCTOR RIBBON CABLE
LENGTHS: 42"

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\j5joptW010.SCHDOC
PRINTED 12/8/2009 4:07:44 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

LICK APF PMAC Machine IO Interface

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig

SCH-5376-4

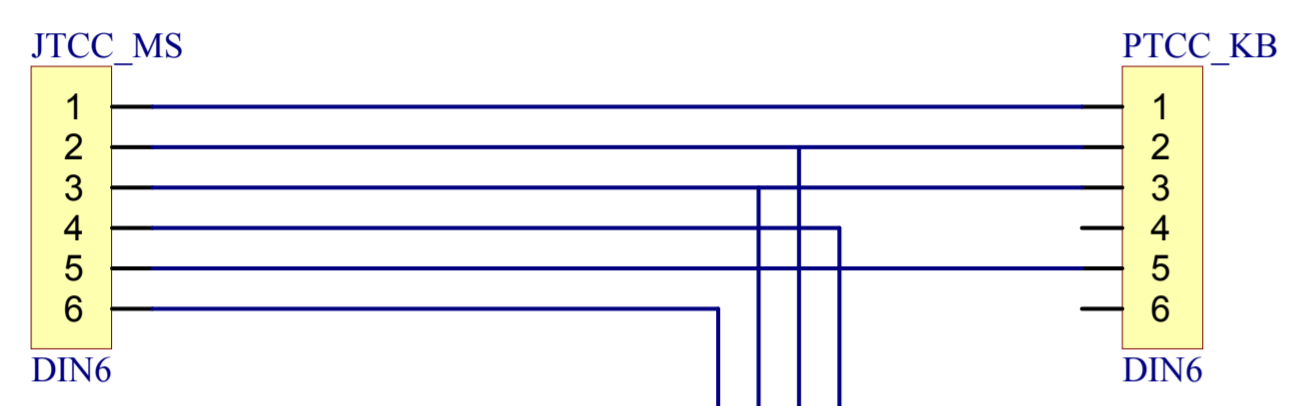
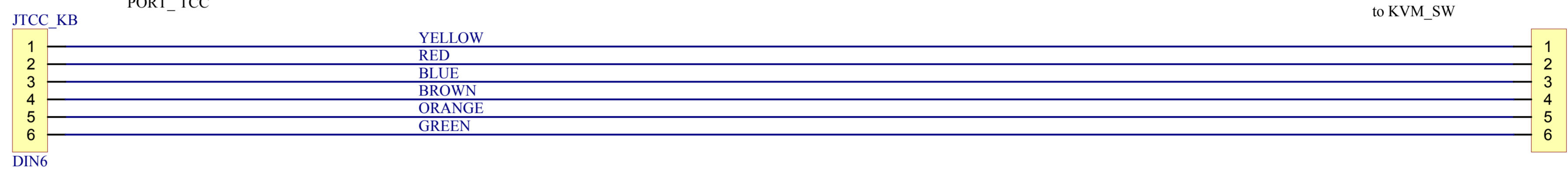
SHEET 23 OF 64

MOUSE EXTENSION CABLE

LABEL:
W053
MOUSE
PORT_TCC

LABEL:
W053

LABEL:
W053
to KVM_SW



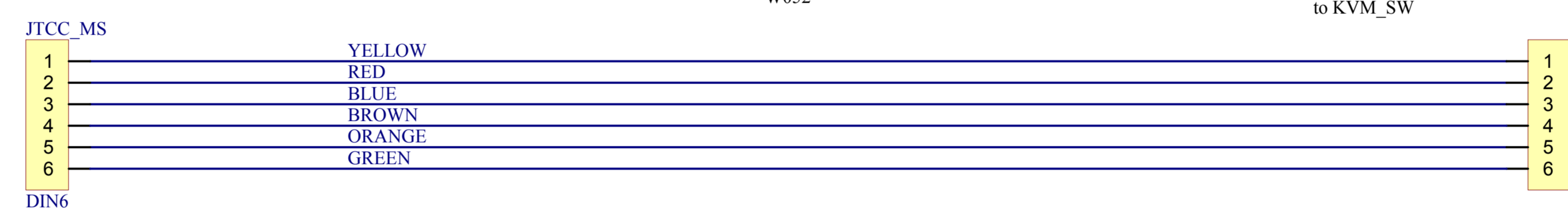
NOTE:
This "Off the Shelf" cable connects both keyboard and mouse to a single DIN connector on the computer.

KEYBOARD EXTENSION CABLE

LABEL:
W052
KYBD
PORT_TCC

LABEL:
W052

LABEL:
W052
to KVM_SW



LENGTH: 48"
WIRE TYPE: OTS DIN CABLES

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\kybd_mouseW052_W053.SCHDOC
PRINTED 12/8/2009 4:07:45 PM
TEMPLATE: Eost_tabloid_SUBS

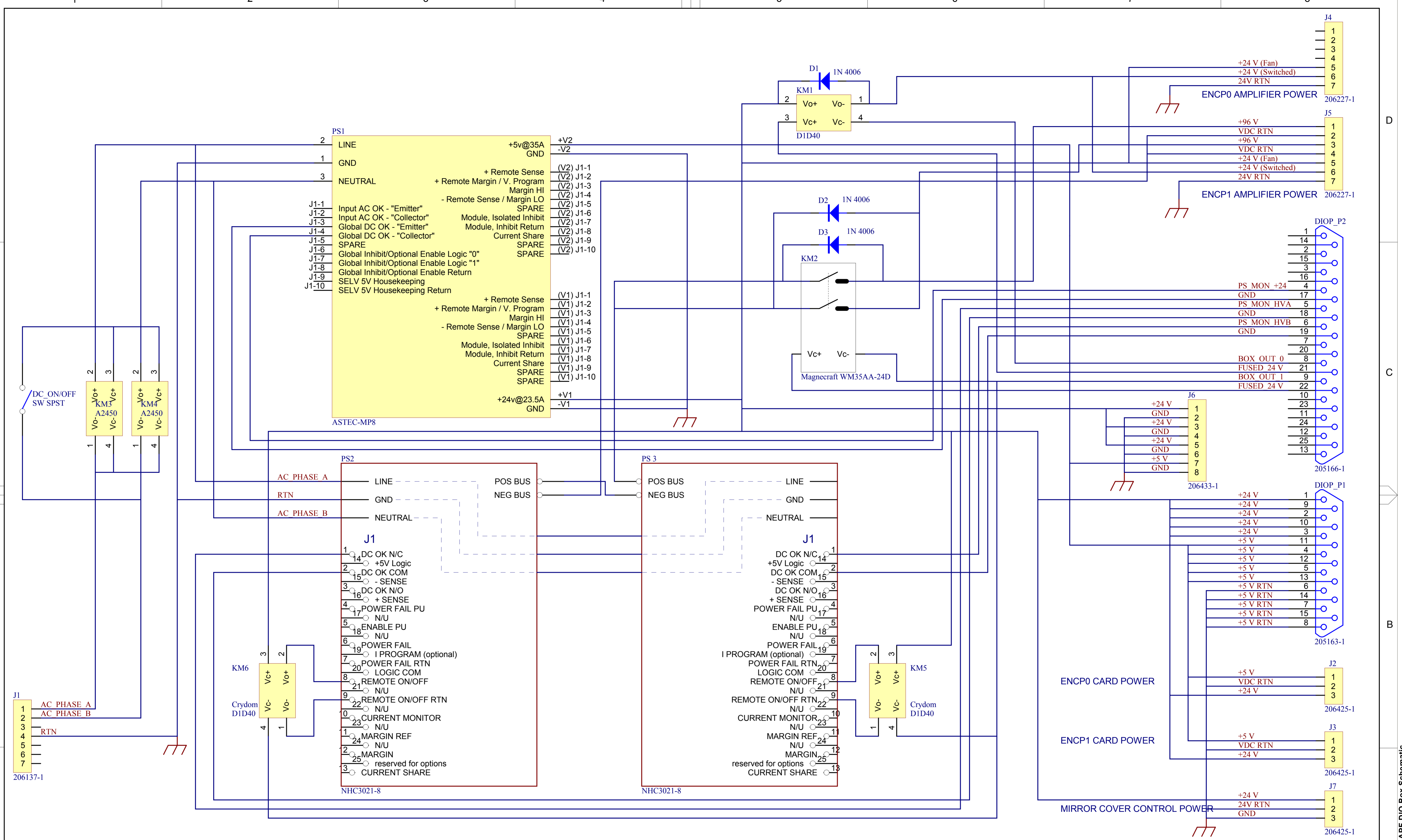
EOS Technologies, Inc.
3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE
APF Keyboard/Mouse Extension Cable

DOCUMENT NUMBER
SCH-5376-4

SIZE
A3

EastConfig SCH-5376-4 SHEET 27 OF 64



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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\Lick_APF_DIOBOX.SCHDOC
PRINTED 12/8/2009 4:07:46 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

LICK APF DIO Box Schematic

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig SCH-5376-4

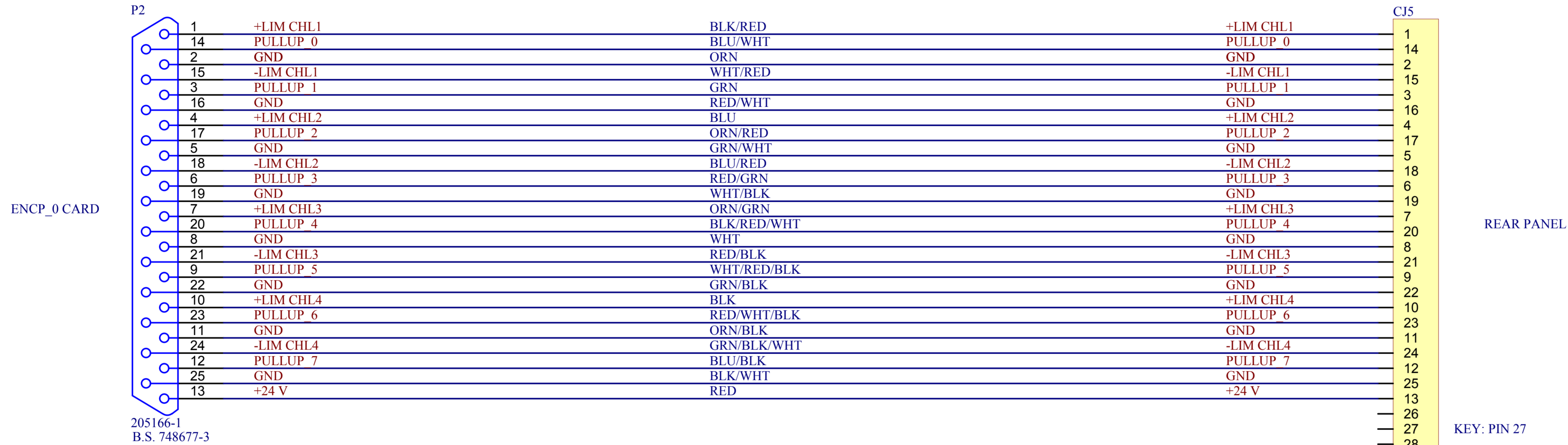
SHEET 2 OF 64

LICK APF DIO Box Schematic
SCH-5376-4

Label:
P2_ENCP_0
W020
to J2_ENCP_0
CARD

Label:
W020

Label:
CJ5
W020
to CAB_PNL



WIRE TYPE: ALPHA 6348
LENGTH: 66"

SECONDARY LIMIT INPUTS
PMAC LIMIT INPUTS [1..4]

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\M2 Limits_W020.SCHDOC
PRINTED 12/8/2009 4:07:46 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

APF M2 End of Travel Limits

DOCUMENT NUMBER

SCH-5376-4

SIZE

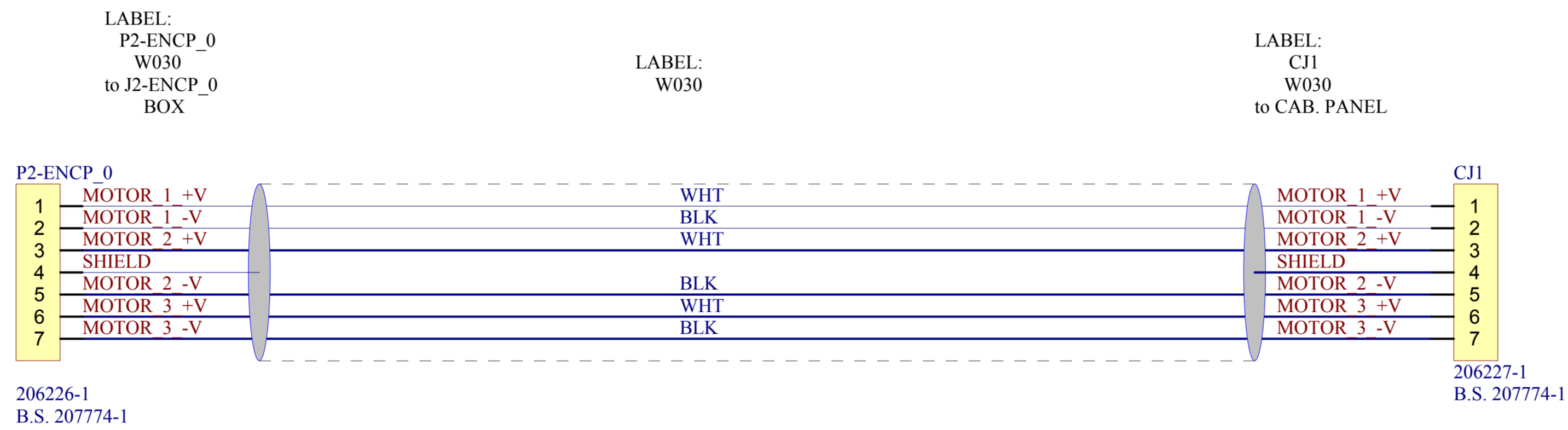
A3

EastConfig

SCH-5376-4

SHEET 34

OF 64



SECONDARY MOTOR DRIVE

LENGTHS: 68"
 WIRE TYPE: PVAZBD6298

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\m2drvW030.SCHDOC
 PRINTED 12/8/2009 4:07:47 PM
 TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
 TUCSON, ARIZONA 85706 USA

TITLE

APF M2 Actuator Drives

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EostConfig SCH-5376-4

SHEET 33 OF 64

D

D

C

C

B

B

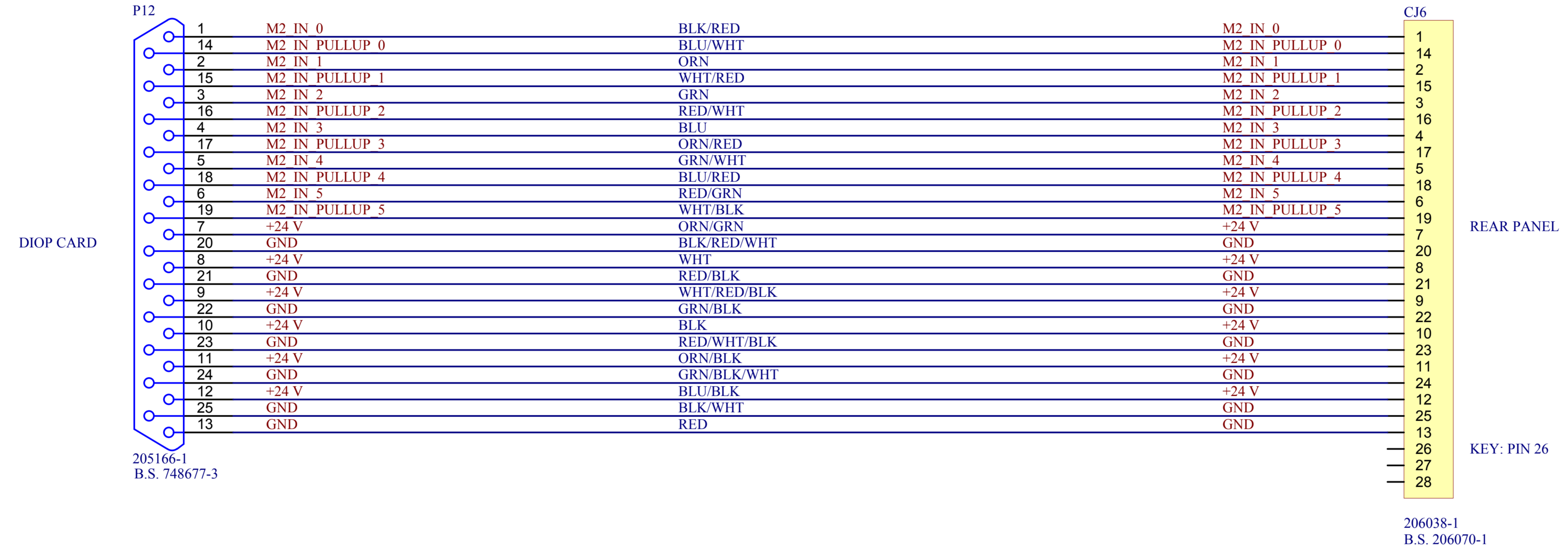
A

A

Label:
P12_DIOP
W021
to J12_DIOP
CARD

Label:
W021

Label:
CJ6
W021
to CAB_PNL



WIRE TYPE: ALPHA 6348
LENGTH: 48.5"

M2 FAILSAFE I/O

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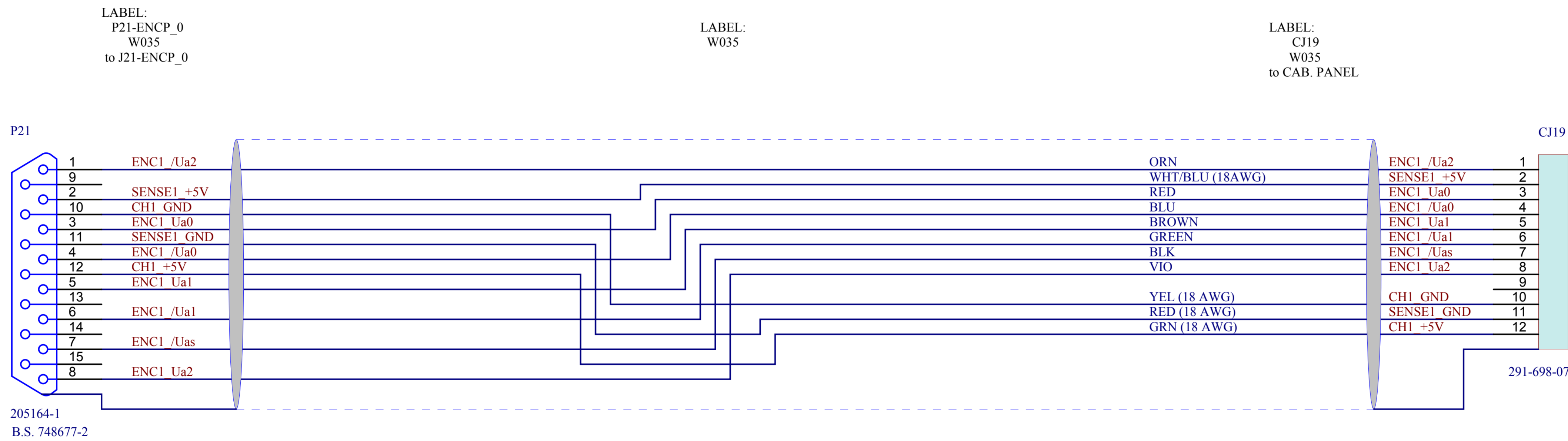
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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\m2fsw021.SCHDOC
PRINTED 12/8/2009 4:07:48 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.
3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE	
APF M2 Failsafe Limits	
DOCUMENT NUMBER	SIZE
SCH-5376-4	A3
EastConfig SCH-5376-4	SHEET 35 OF 64

APF M2 Failsafe Limits
SCH-5376-4



LENGTHS: 60 in.
 WIRE TYPE: PETSCHÉ OR HEIDENHAIN 244-957-01

THE SHIELD OF THIS CABLE WAS CONNECTED TO THE METAL CASE OF THE CONNECTOR DURING CABLE ASSEMBLY FABRICATION

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\m2linenc\W035.SCHDOC
 PRINTED 12/8/2009 4:07:49 PM
 TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
 TUCSON, ARIZONA 85706 USA

TITLE

APF M2 Linear Encoder A

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

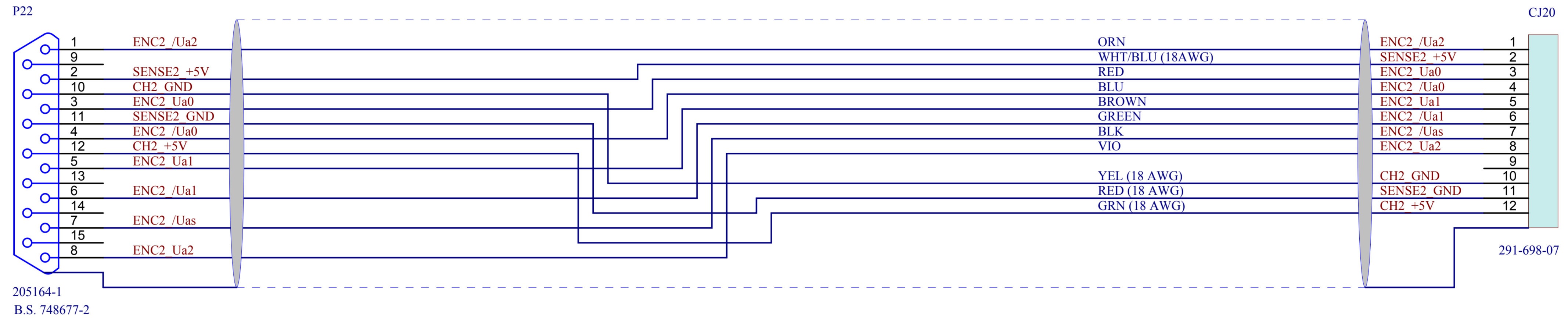
EastConfig SCH-5376-4

SHEET 37 OF 64

LABEL:
P22-ENCP_0
W036
to J22-ENCP_0

LABEL:
W036

LABEL:
CJ20
W036
to CAB. PANEL



THE SHIELD OF THIS CABLE WAS CONNECTED TO THE METAL CASE OF THE CONNECTOR DURING CABLE ASSEMBLY FABRICATION

LENGTHS: 60 in.
WIRE TYPE: PETSCHKE OR HEIDENHAIN 244-957-01

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\m2linencW036.SCHDOC
PRINTED 12/8/2009 4:07:50 PM
TEMPLATE: Eost_tabloid_SUBS

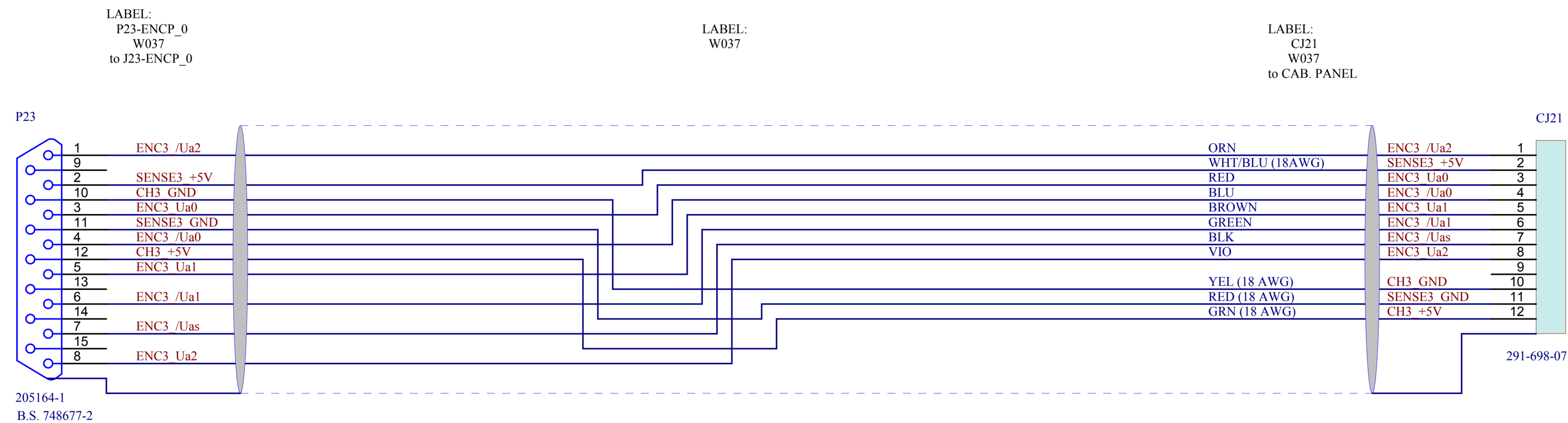
EOS Technologies, Inc.
3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE
APF M2 Linear Encoder B

DOCUMENT NUMBER
SCH-5376-4

SIZE
A3

EastConfig SCH-5376-4 SHEET 38 OF 64



THE SHIELD OF THIS CABLE WAS CONNECTED TO THE METAL CASE OF THE CONNECTOR DURING CABLE ASSEMBLY FABRICATION

LENGTHS: 60 in.
WIRE TYPE: PETSCHÉ OR HEIDENHAIN 244-957-01

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PRINTED 12/8/2009 4:07:50 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.
3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE
APF M2 Linear Encoder C

DOCUMENT NUMBER	SIZE
SCH-5376-4	A3
EostConfig SCH-5376-4	SHEET 39 OF 64

D

D

C

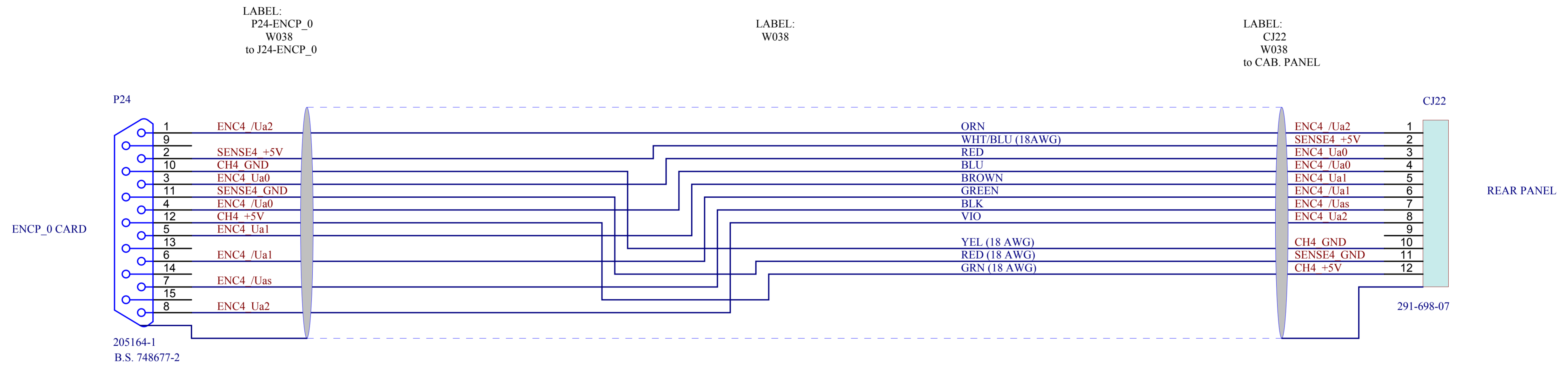
C

B

B

A

A



LENGTHS: 60 in.
 WIRE TYPE: PETSCHER OR HEIDENHAIN 244-957-01

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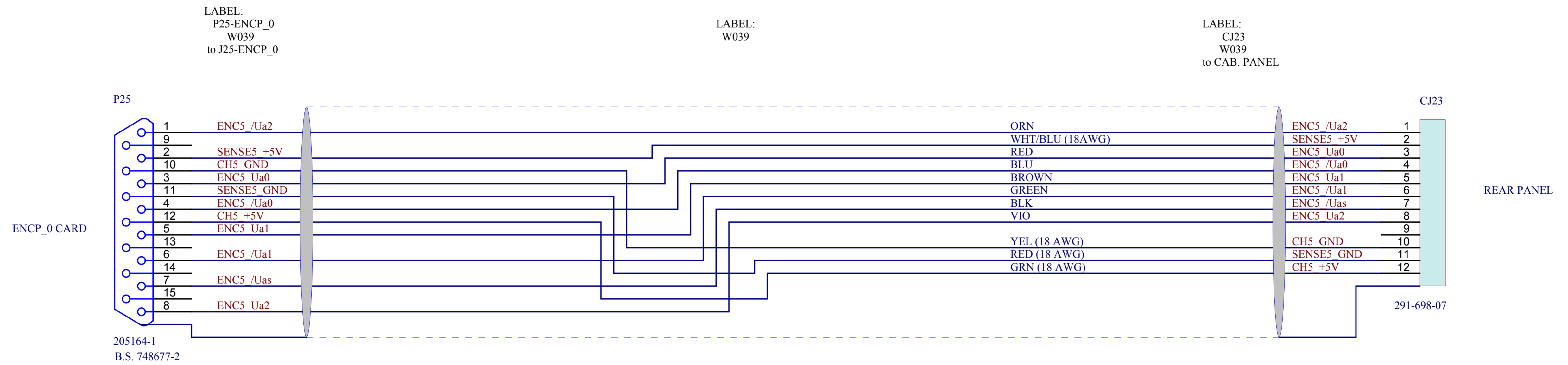
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 PRINTED 12/8/2009 4:07:51 PM
 TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.
 3160 E. TRANSCON WAY, Suite 180
 TUCSON, ARIZONA 85706 USA

TITLE
APF M2 Motor Encoder A

DOCUMENT NUMBER	SCH-5376-4	SIZE	A3
EostConfig	SCH-5376-4	SHEET 40 OF 64	

APF M2 Motor Encoder A
SCH-5376-4



LENGTHS: 60 in.
WIRE TYPE: PETSCHKE OR HEIDENHAIN 244-957-01

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\m2motencW039.SCHDOC
PRINTED 12/8/2009 4:07:52 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

APF M2 Motor Encoder B

DOCUMENT NUMBER

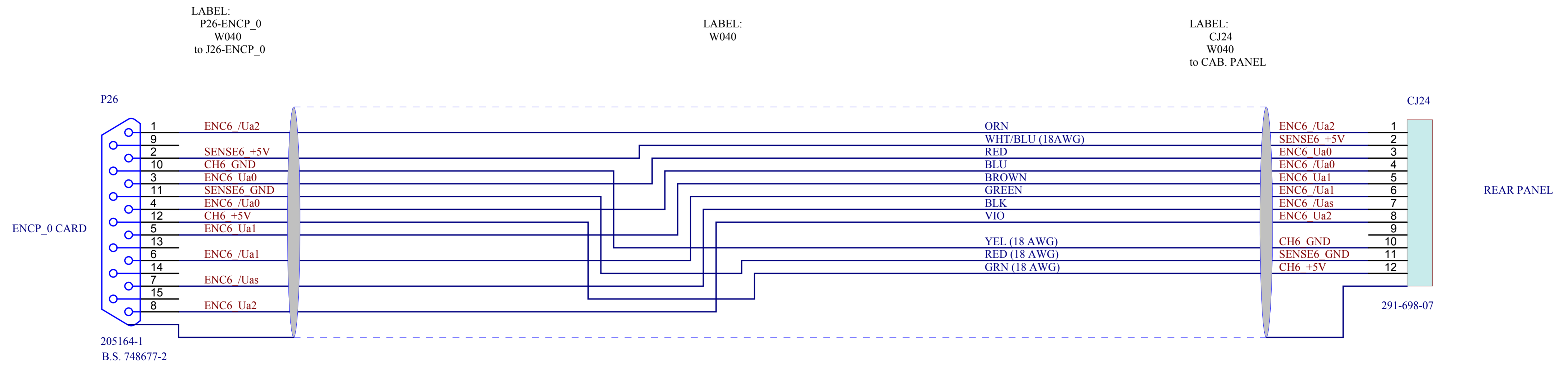
SCH-5376-4

SIZE

A3

EastConfig SCH-5376-4

SHEET 41 OF 64



LENGTHS: 60 in.
WIRE TYPE: PETSCHKE OR HEIDENHAIN 244-957-01

THE SHIELD OF THIS CABLE WAS CONNECTED TO THE METAL CASE OF THE CONNECTOR DURING CABLE ASSEMBLY FABRICATION

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\m2motencW040.SCHDOC
PRINTED 12/8/2009 4:07:53 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

APF M2 Motor Encoder C

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig

SCH-5376-4

SHEET 42 OF 64

M2 TILT F.S.

Label:
P13_DIOP
W022
to J13_DIOP
CARD

Label:
W022

Label:
CJ7
W022
to CAB_PNL



WIRE TYPE: ALPHA 6348
LENGTH: 72.75"

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\m2tilt\W022.SCHDOC
PRINTED 12/8/2009 4:07:54 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

APF M2 Failsafe Tilt Limits

DOCUMENT NUMBER

SCH-5376-4

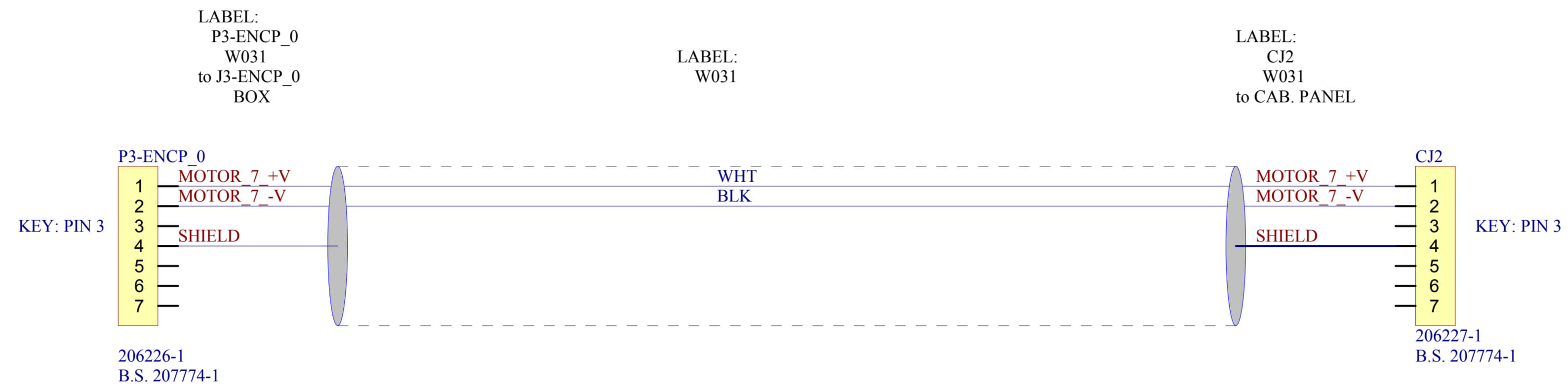
SIZE

A3

EastConfig SCH-5376-4

SHEET 36 OF 64

M3 ROTATOR MOTOR DRIVE



LENGTHS: 68"
WIRE TYPE: BELDEN 8718

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\m3drvW031.SCHDOC
PRINTED 12/8/2009 4:07:54 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

APF M3 Rotator Drive

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig SCH-5376-4

SHEET 30 OF 64

D

D

C

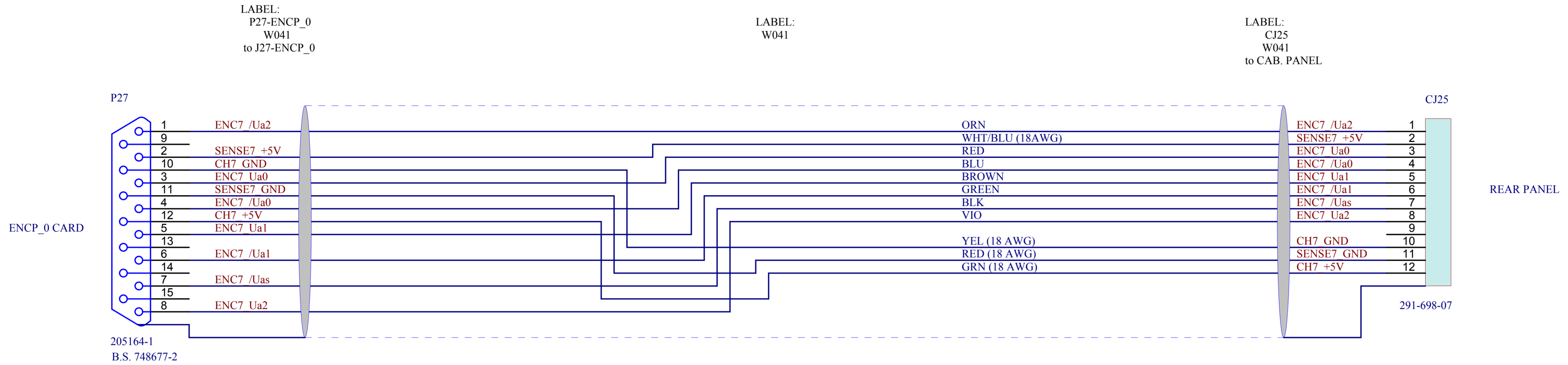
C

B

B

A

A



LABEL:
P27-ENCP_0
W041
to J27-ENCP_0

LABEL:
W041

LABEL:
CJ25
W041
to CAB. PANEL

ENC_P_0 CARD

P27

CJ25

205164-1
B.S. 748677-2

291-698-07

REAR PANEL

THE SHIELD OF THIS CABLE WAS CONNECTED
TO THE METAL CASE OF THE CONNECTOR
DURING CABLE ASSEMBLY FABRICATION

LENGTHS: 60 in.
WIRE TYPE: PETSCHKE OR HEIDENHAIN 244-957-01

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\M3encW041.SCHDOC
PRINTED 12/8/2009 4:07:55 PM
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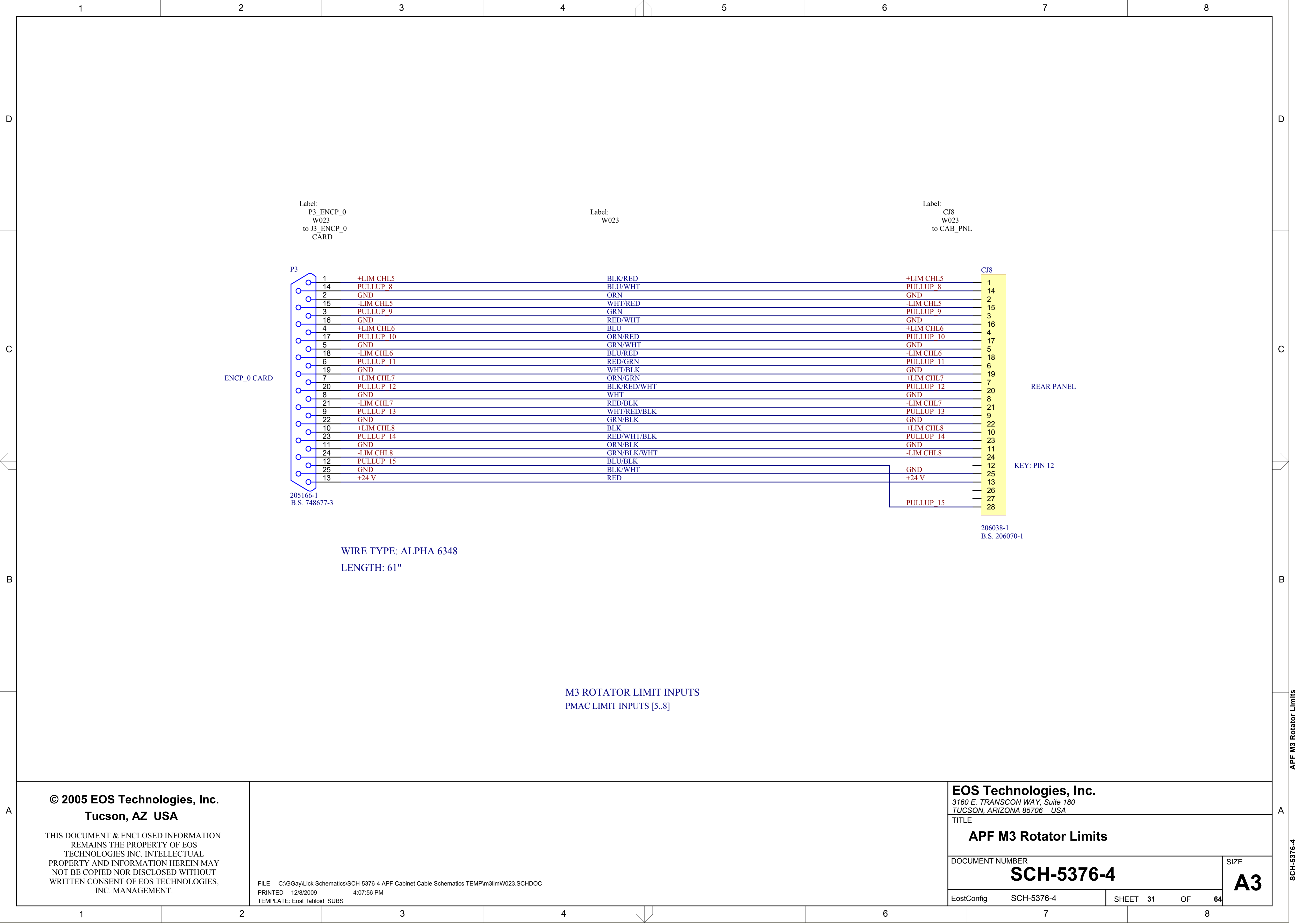
EOS Technologies, Inc.
3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE
APF M3 Rotator Encoder

DOCUMENT NUMBER
SCH-5376-4

SIZE
A3

EastConfig SCH-5376-4 SHEET 32 OF 64



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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\m3limW023.SCHDOC
PRINTED 12/8/2009 4:07:56 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

APF M3 Rotator Limits

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

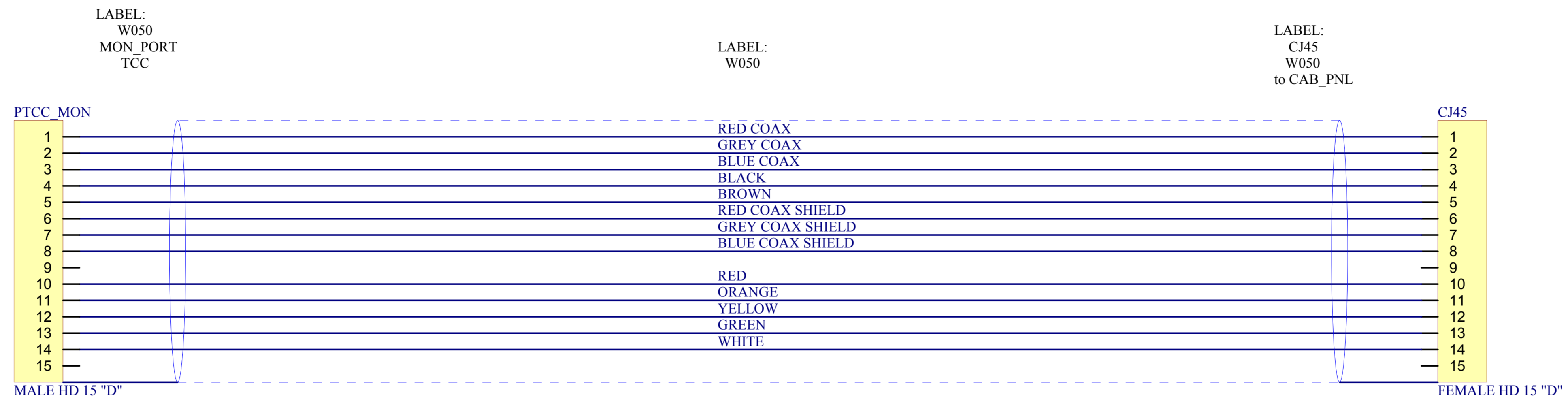
EastConfig

SCH-5376-4

SHEET 31

OF 64

MONITOR EXTENSION CABLE



LENGTH: 48"
 WIRE TYPE: OTS MONITOR CABLE

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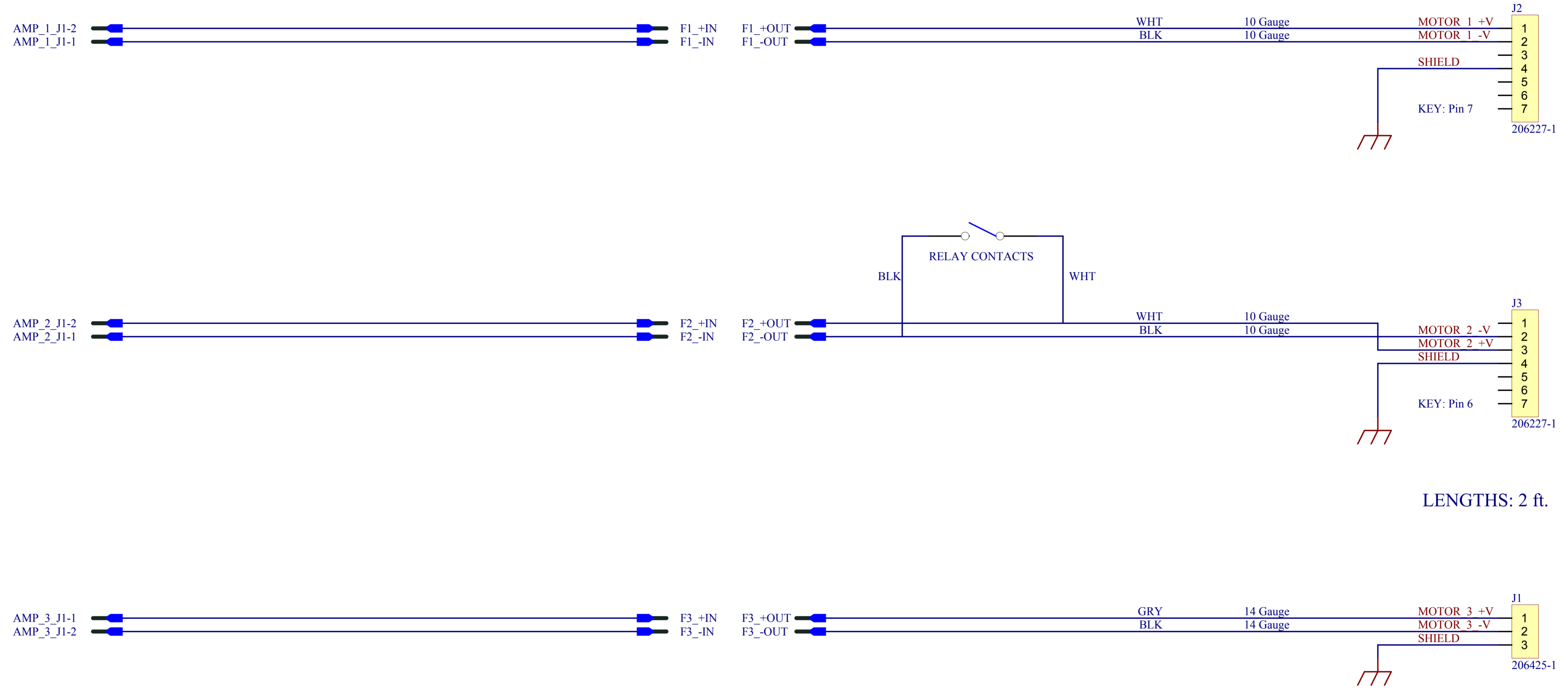
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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\monW050.SCHDOC
 PRINTED 12/8/2009 4:07:57 PM
 TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.
 3160 E. TRANSCON WAY, Suite 180
 TUCSON, ARIZONA 85706 USA

TITLE
APF Monitor Extension Cable

DOCUMENT NUMBER	SCH-5376-4	SIZE	A3
EastConfig	SCH-5376-4	SHEET 26 OF 64	



LENGTHS: 2 ft.

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\MOTOR_OUT_1.SCHDOC
PRINTED 12/8/2009 4:07:58 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE
LICK APF ENCP1 Motor Drive Outputs

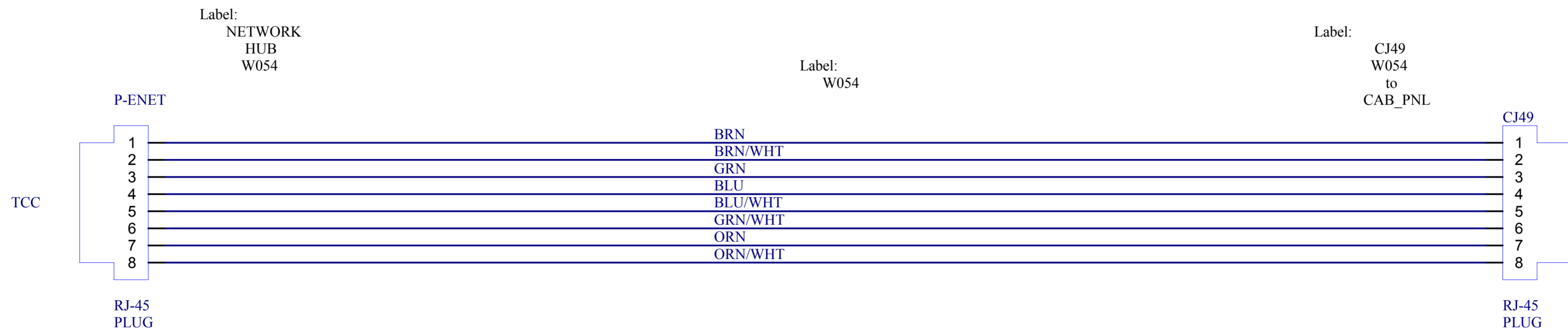
DOCUMENT NUMBER
SCH-5376-4

SIZE
A3

EostConfig SCH-5376-4 SHEET 11 OF 64

SCH-5376-4 LICK APF ENCP1 Motor Drive Outputs

ENET EXTENSION CABLE



WIRE TYPE: NETWORK INTERFACE CABLE
 LENGTH: 38"

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\netrkW054.SCHDOC
 PRINTED 12/8/2009 4:07:59 PM
 TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
 TUCSON, ARIZONA 85706 USA

TITLE

APF Network Extension Cable

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig

SCH-5376-4

SHEET 28

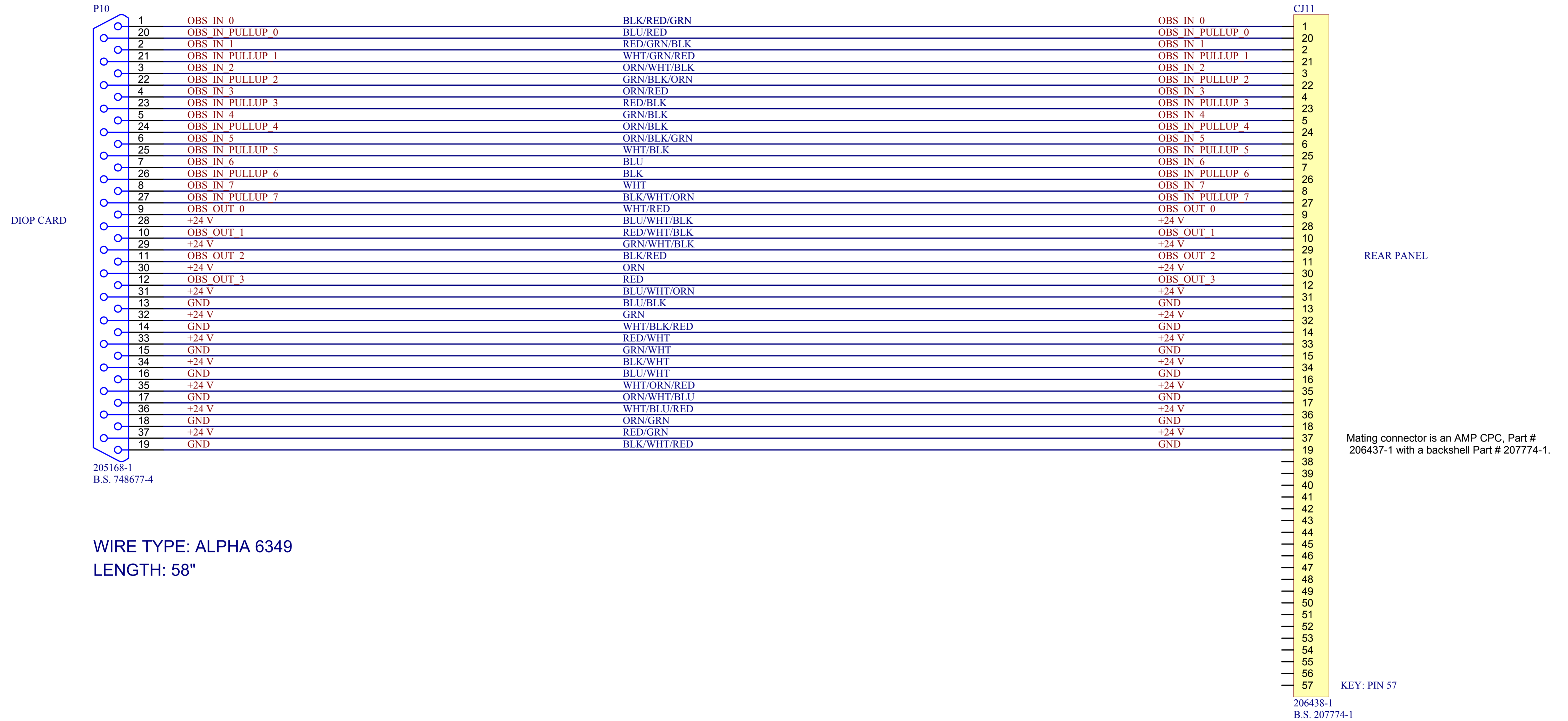
OF 64

OBSERVATORY DIGITAL INPUT AND OUTPUTS

Label:
P10_DIOP
W060
to J10_DIOP
CARD

Label:
W060

Label:
CJ11
W060
to CAB_PNL



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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\ObsDIO_W060.SchDoc
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TEMPLATE: Eost_tabloid_SUBS

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3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

APF Observatory Digital I/O

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

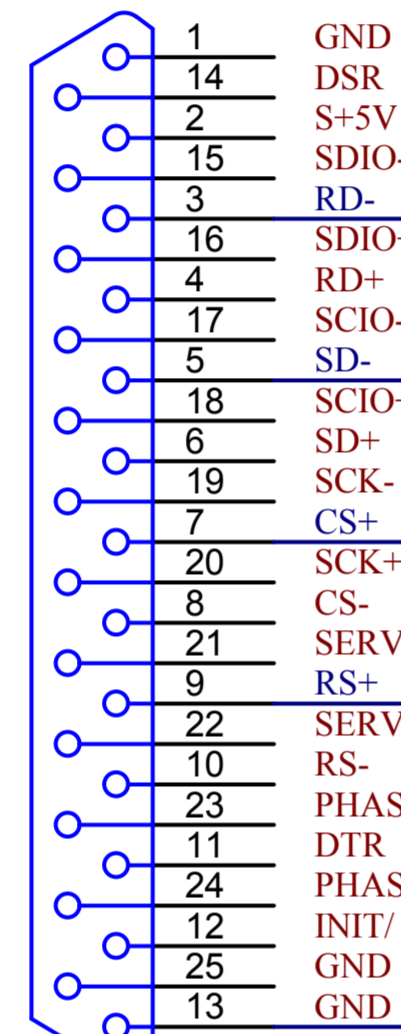
EastConfig SCH-5376-4

SHEET 64 OF 64

PMAC RS232 INTERFACE

LABEL:
P_SER_1
W059
to TCC_PMAC
PNL

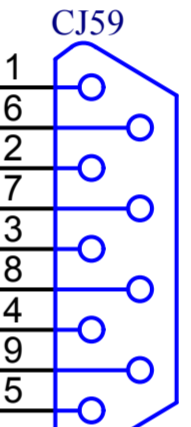
TCC PMAC_J4 Interface



205166-1
B. S. 748677-3

LABEL:
W059

LABEL:
CJ59
W059
to
CAB PNL



205161-2
B. S. 748677-1

LENGTHS: 32"
WIRE TYPE: Belden 1421A

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TITLE

PMAC RS232 INTERFACE CABLE

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

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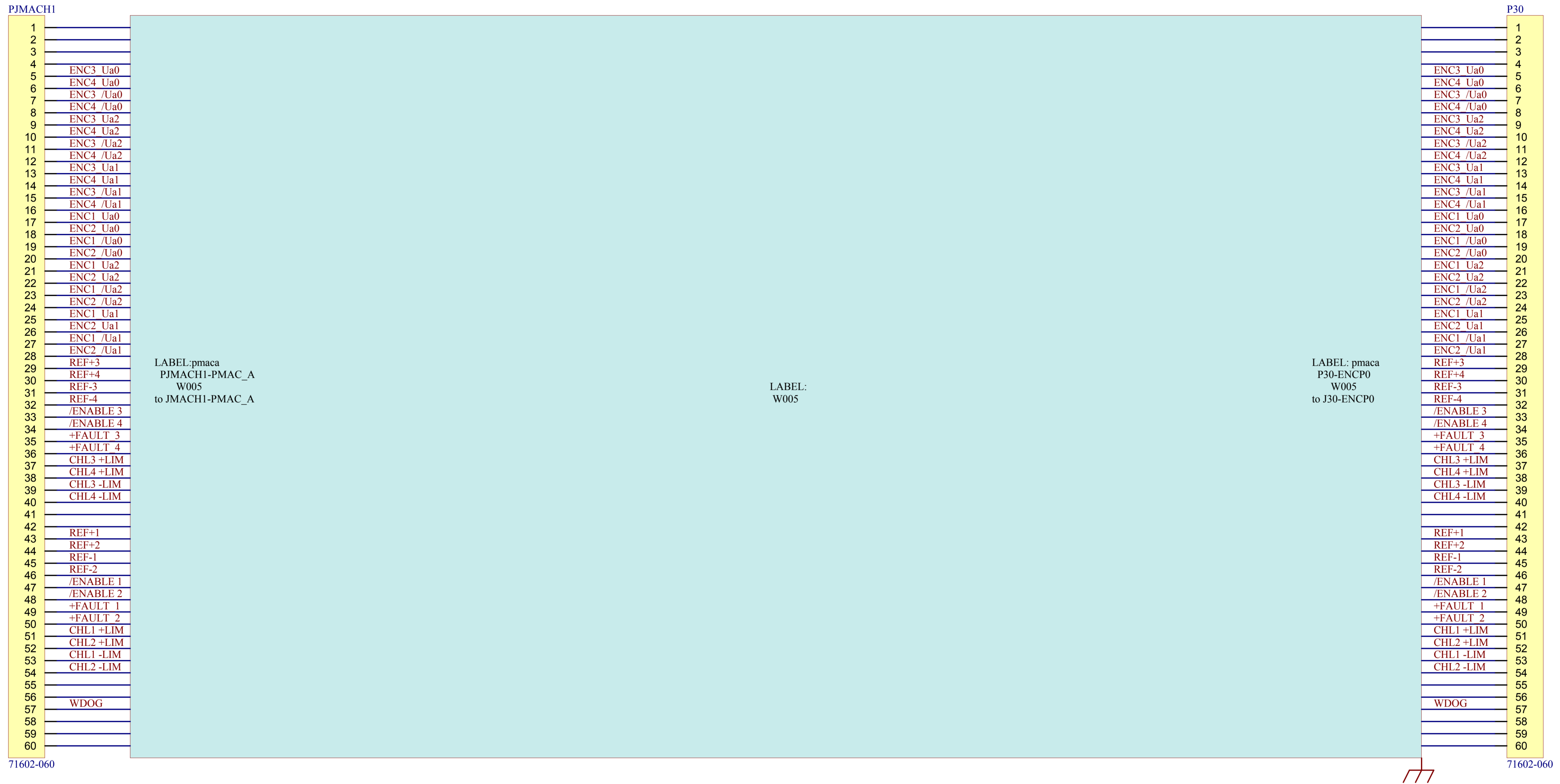
SCH-5376-4

SHEET 63

OF 64

PMAC RS232 INTERFACE CABLE
SCH-5376-4

PMAC JMACHI CABLE



WIRE TYPE:843-159-2801-060 Shielded ribbon cable
 LENGTHS: PMACA: 31"

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TITLE

LICK APF PMAC MACH1 to ENCP0 Interface

DOCUMENT NUMBER

SCH-5376-4

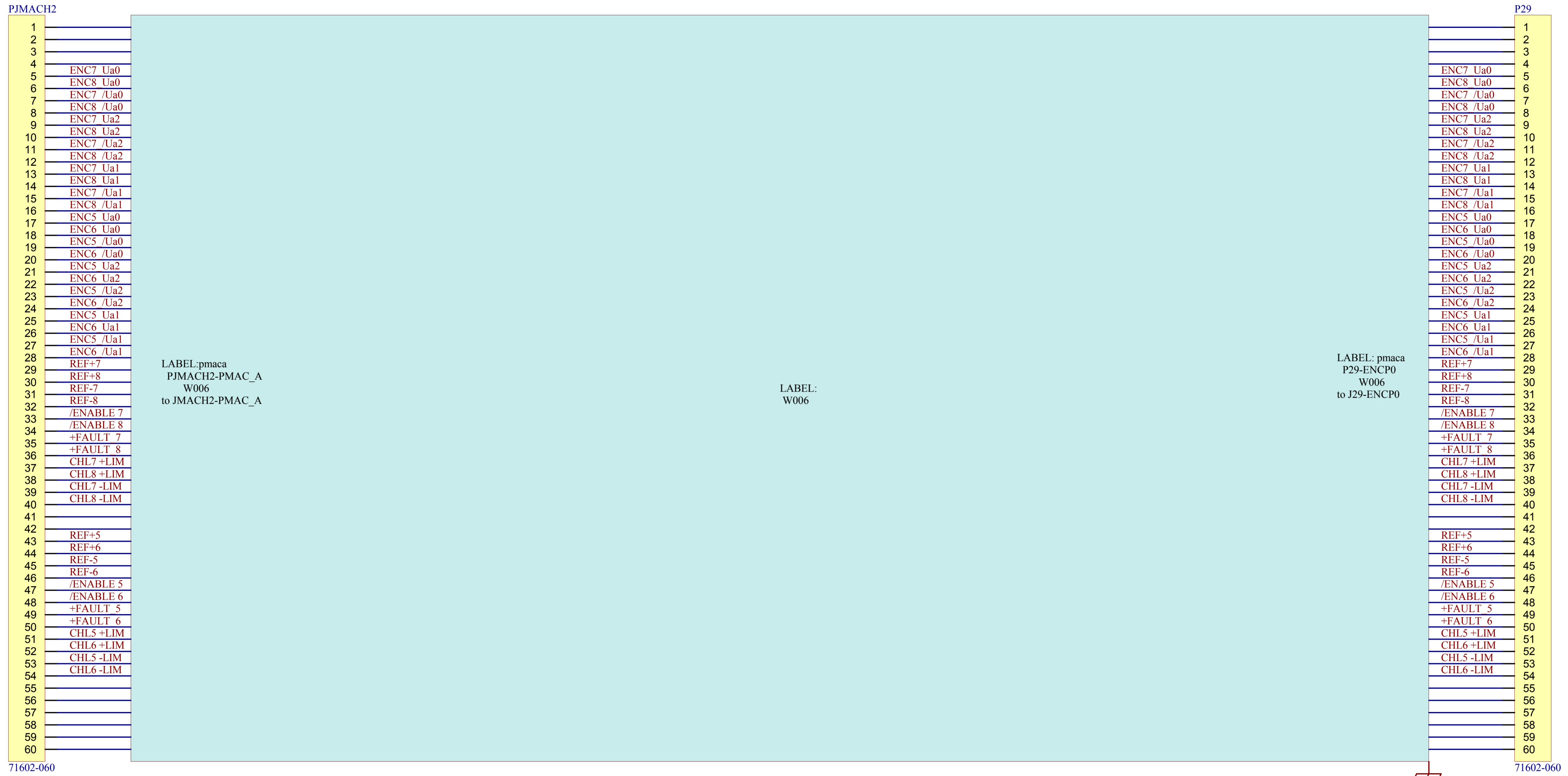
SIZE

A3

EastConfig SCH-5376-4

SHEET 18 OF 64

PMAC JMACH2 CABLE



WIRE TYPE:843-159-2801-060 Shielded ribbon cable
 LENGTHS: PMACA: 36"

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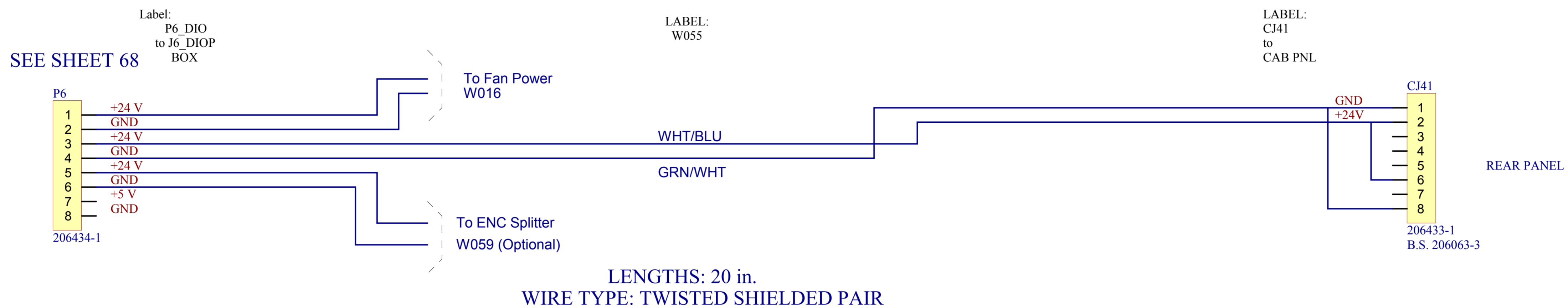
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TITLE
LICK APF PMAC MACH2 to ENCP0 Interface

DOCUMENT NUMBER	SIZE
SCH-5376-4	A3
EastConfig SCH-5376-4	SHEET 19 OF 64

SCH-5376-4 LICK APF PMAC MACH2 to ENCP0 Interface

THERMAL MONITOR POWER CABLE



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CHANGE

APF Temperature Sensor Power Cable

DOCUMENT NUMBER

SCH-5376-4

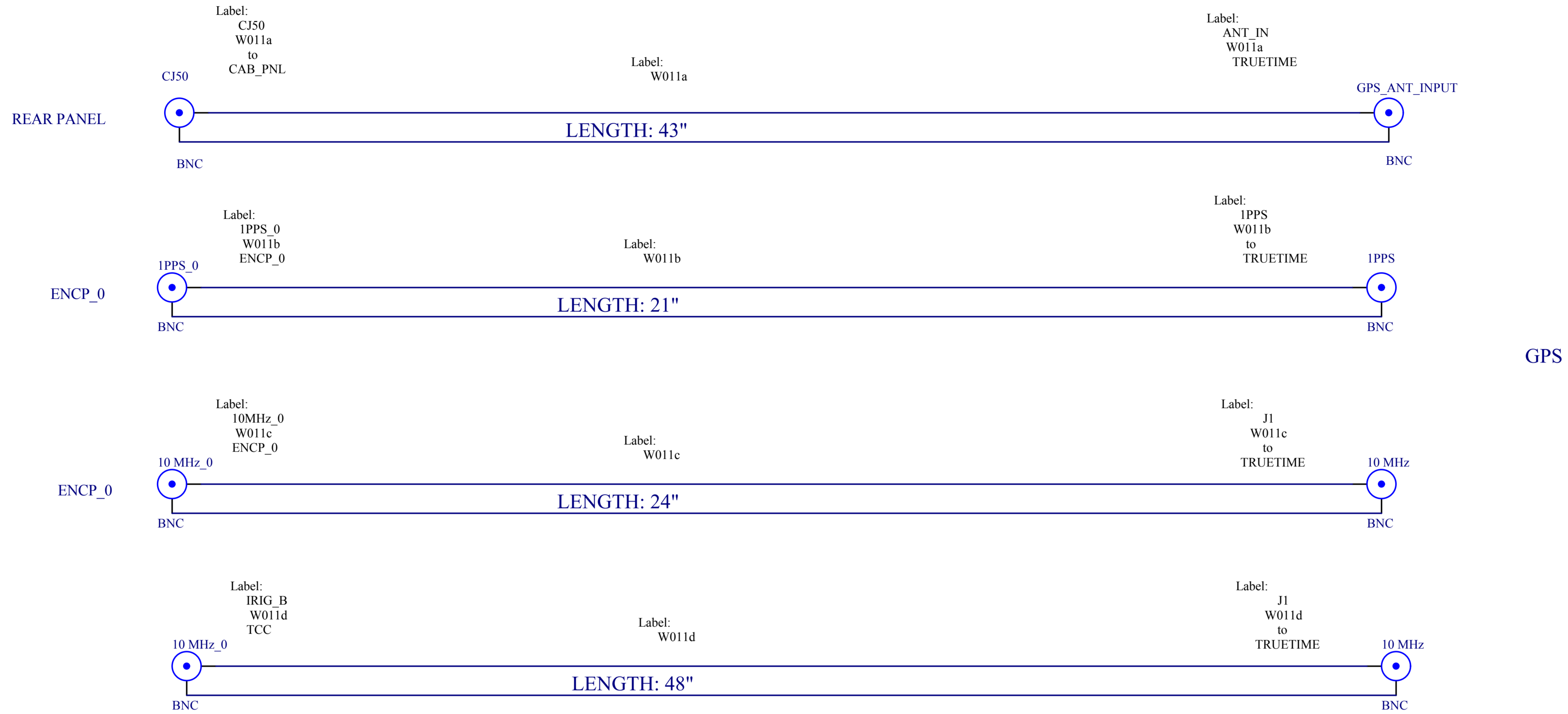
SIZE

A3

EostConfig SCH-5376-4

SHEET 61 OF 64

TIME INPUT TO ENCP_0 and TRUETIME



GPS

WIRE TYPE: ALPHA 9174

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TITLE

APF Observatory Timing Inputs

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SCH-5376-4

SIZE

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EastConfig SCH-5376-4

SHEET 29 OF 64