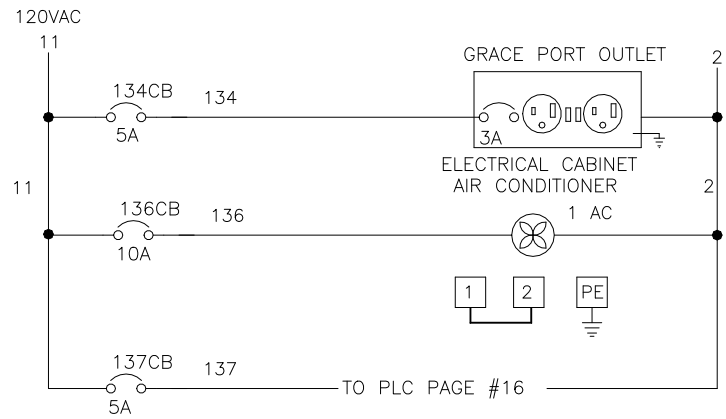
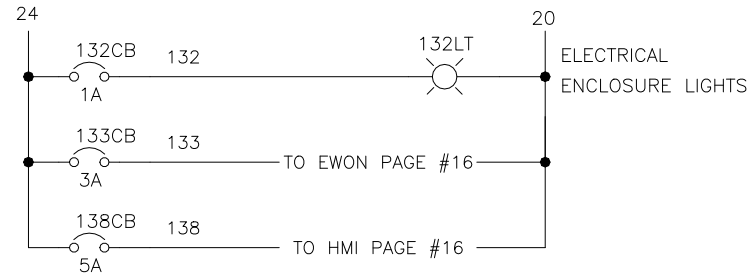
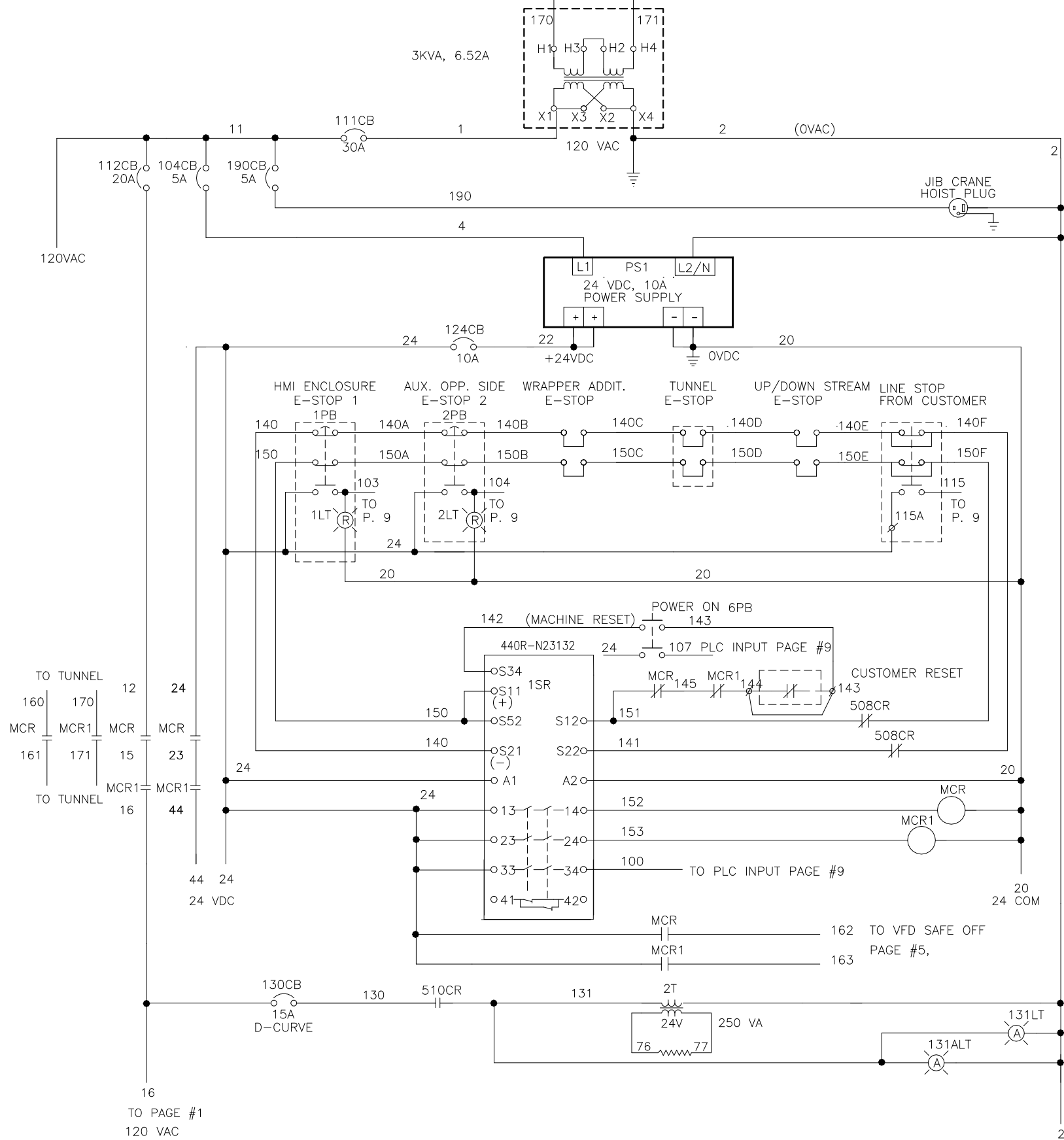
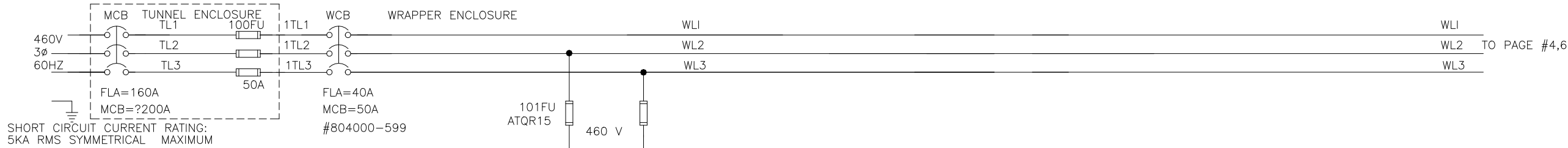


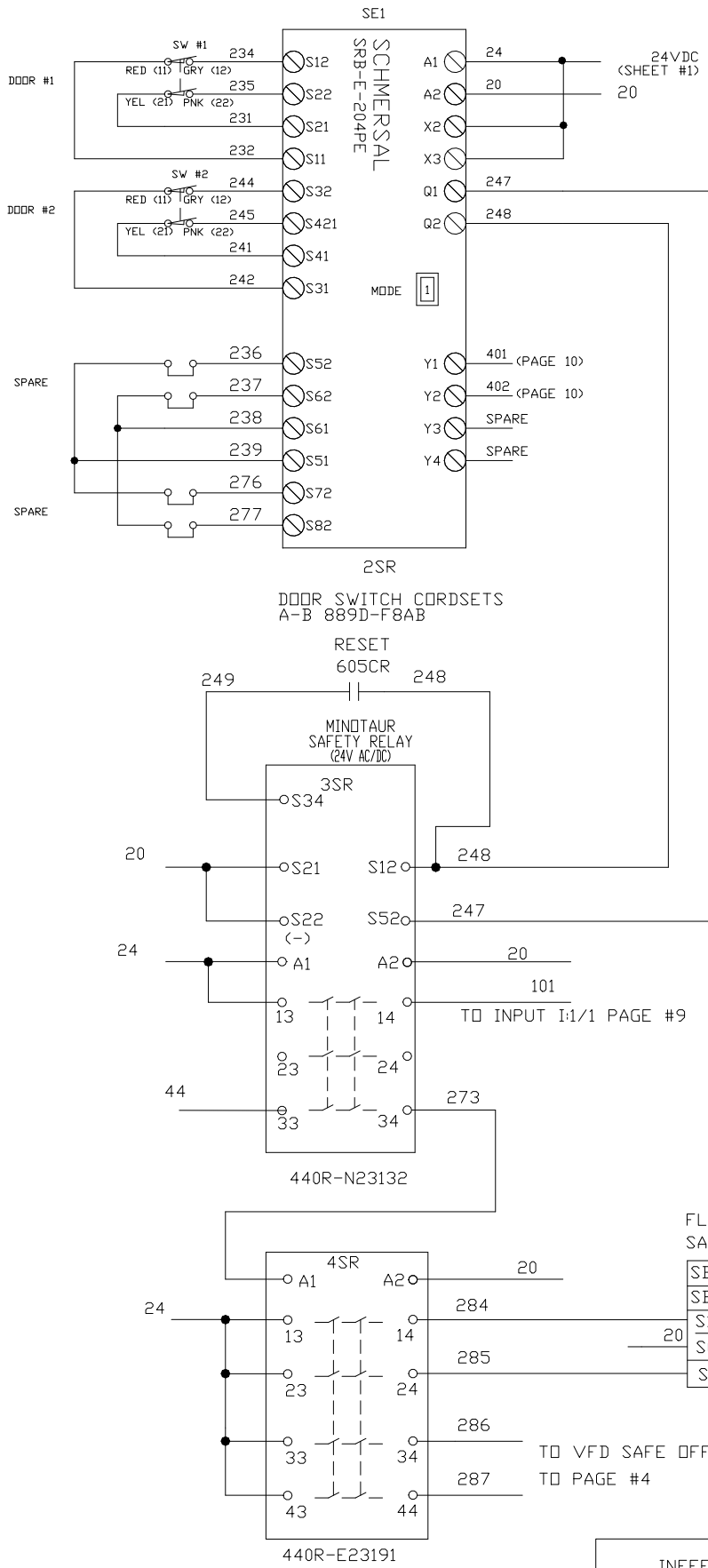
DESCRIPTION	WIRE COLOR
460 V POWER (L1, L2,L3)	BLACK
GROUND	GREEN
120 VAC	RED
120 VAC (COM)	WHITE
24 VDC	BLUE
24 VDC (COM)	WHITE WITH BLUE STRIPE

NVENIA

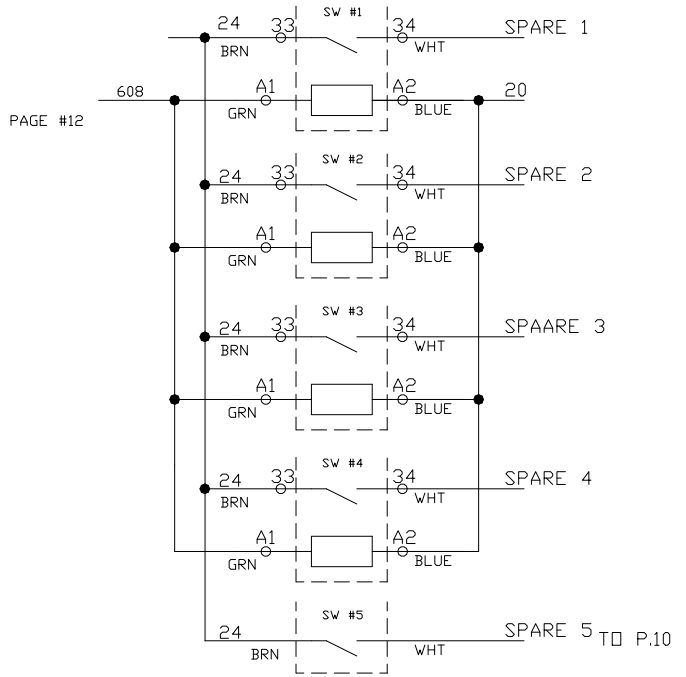
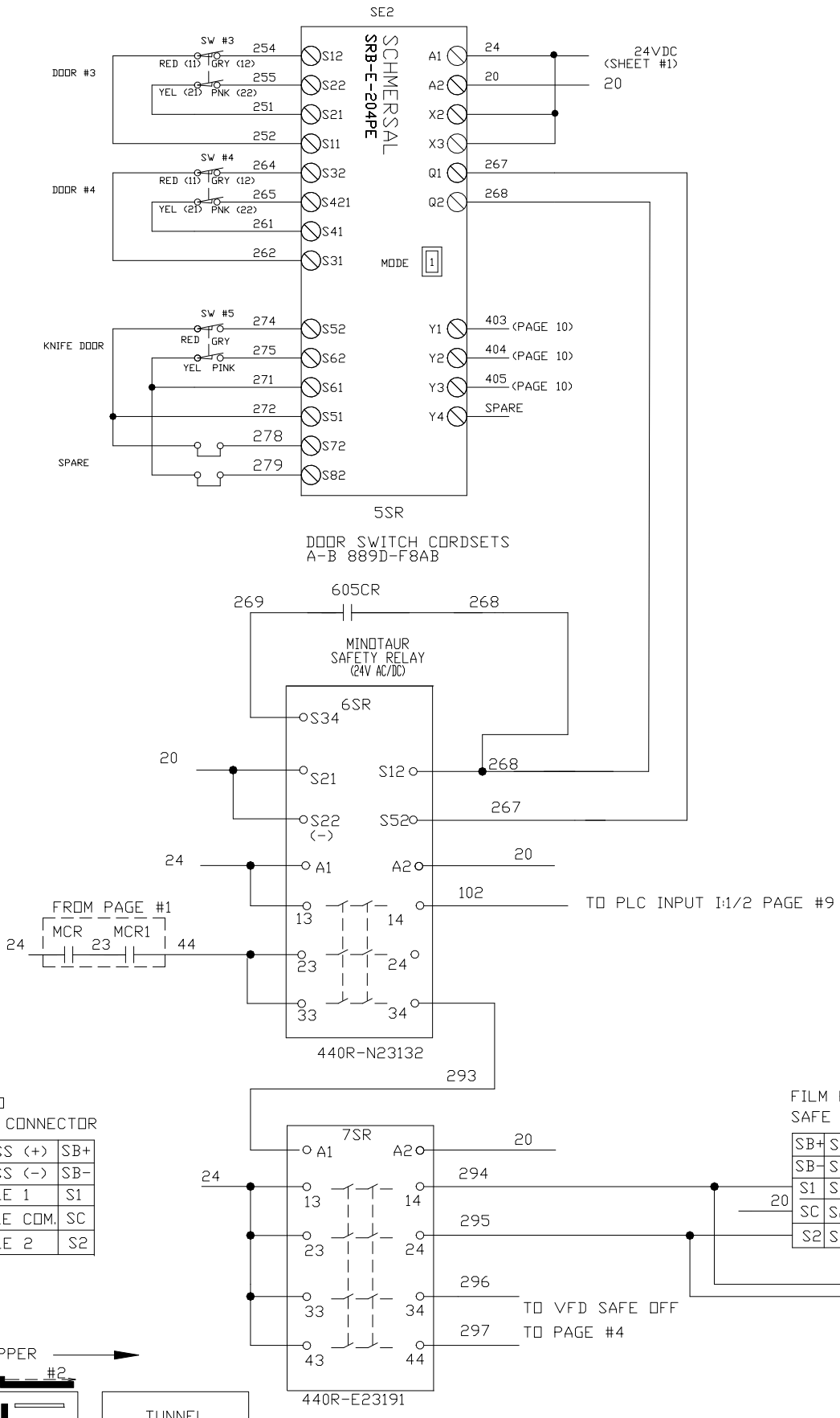
A DURAVANT COMPANY

REV. A	ELECTRICAL SCHEMATIC	SIZE: B
DESIGNER: JR/PT		DATE: 12/02/2021
MODEL: BPTW-6000		SHEET: 1 OF 16
BLUE MARBLE		DRAWING NUMBER: 210012-01

SAFETY ZONE #2 FLIGHT BAR DOORS



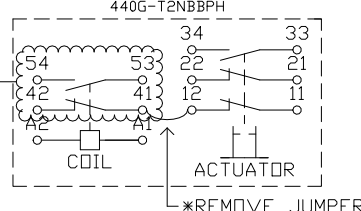
SAFETY ZONE #3 FILM FEED DOORS



440G-T2NBBPH LOCKABLE DOOR SWITCH TERMINAL WIRING

SWITCH CORDSET TERMINAL	COLOR	DESCRIPTION
A1	BRN	SOLENOID POWER
A2	BLUE	0VDC
11	RED	SAFETY A
12	GRAY	SAFETY A
21	YELLOW	SAFETY B
22	PINK	SAFETY B
33	BRN	+24 VDC
34	WHT	AUX. CONTACT (TO PLC)
41	N/A	*NOT CONNECTED
42	N/A	*NOT CONNECTED
53	N/A	*NOT CONNECTED
54	N/A	*NOT CONNECTED

**REMOVE JUMPER BETWEEN 12 AND 41



KNIFE SERVO SAFE TORQUE OFF CONNECTOR

SB+	SAFETY BYPASS (+)	SB+
SB-	SAFETY BYPASS (-)	SB-
S1	SAFETY ENABLE 1	S1
SC	SAFETY ENABLE COM.	SC
S2	SAFETY ENABLE 2	S2

REV. A

DESIGNER: JR/PT

MODEL: BPTW-6000

ELECTRICAL SCHEMATIC

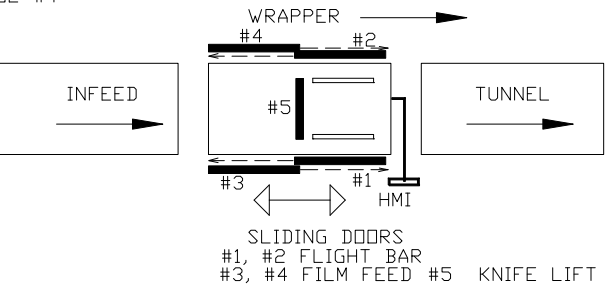
SIZE: B

DATE: 12/02/2021

SHEET: 2 OF 16

DRAWING NUMBER: 210012-02

BLUE MARBLE



REVISION 03-30-2020
SAFETY-MONITORING 4 INPUT EXPANDER MODULE
SRB-E-204PE

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REV.

DESIGNER:

MODEL:

A

JR/PT

BPTW-6000

ELECTRICAL

SCHEMATIC

SIZE:

DATE:

SHEET:

B

12/02/2021

3 OF 16

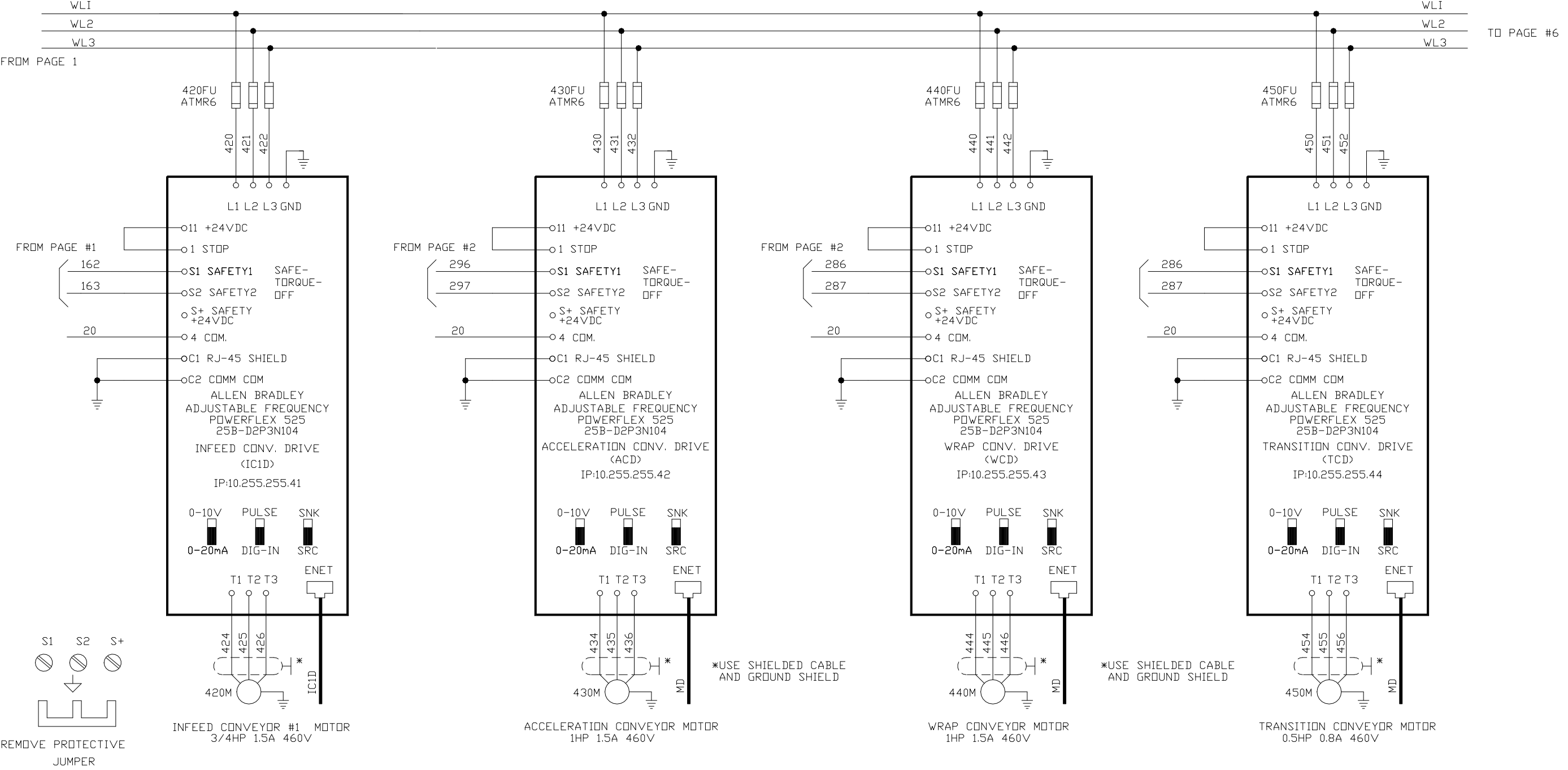
BLUE MARBLE

DRAWING NUMBER:

210012-03

NVENIA

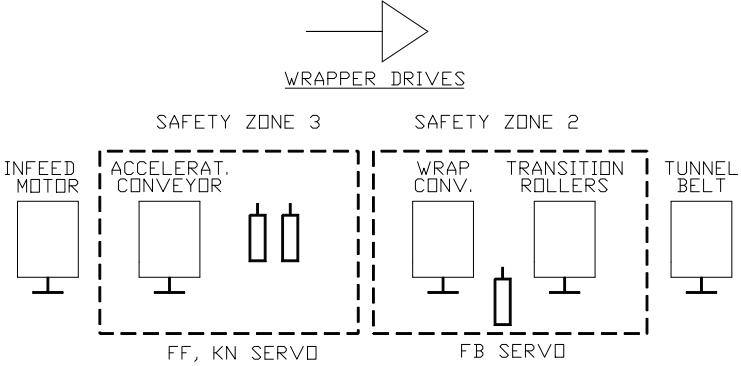
A DURAVANT COMPANY



POWER FLEX 525 DRIVE SET UP
(DIFFERENT THAN DEFAULT)

DISPLAY	PARAMETER DESCRIPTIONS	SETTING
P031	RATED VOLTAGE	460
P033	MOTOR OL CURRENT	1.2 *
P046	START SOURCE 1	5 (ETH)
P047	SPEED REFERENCE 1	15 (ETH)
P041	ACCELERATION TIME	1 SEC
P042	DECELERATION TIME	1 SEC
P044	MAX FREQUENCY	60 HZ
A541	AUTO RESTART TRIES	0.0
A543	START AT POWER UP	1.0

* SET TO THE MAXIMUM ALLOWABLE MOTOR CURRENT
AUTO RESTART TRIES SET TO DEFAULT 0



*INSTALL DRIVES WITH 2" CLEARANCE
TOP AND BOTTOM AND WITH 1" CLEARANCE
LEFT TO RIGHT

NVENIA

A DURAVANT COMPANY

REV. A	ELECTRICAL SCHEMATIC	SIZE: B
DESIGNER: JR/PT		DATE: 12/02/2021
MODEL: BPTW-6000		SHEET: 4 OF 16
BLUE MARBLE		DRAWING NUMBER: 210012-04

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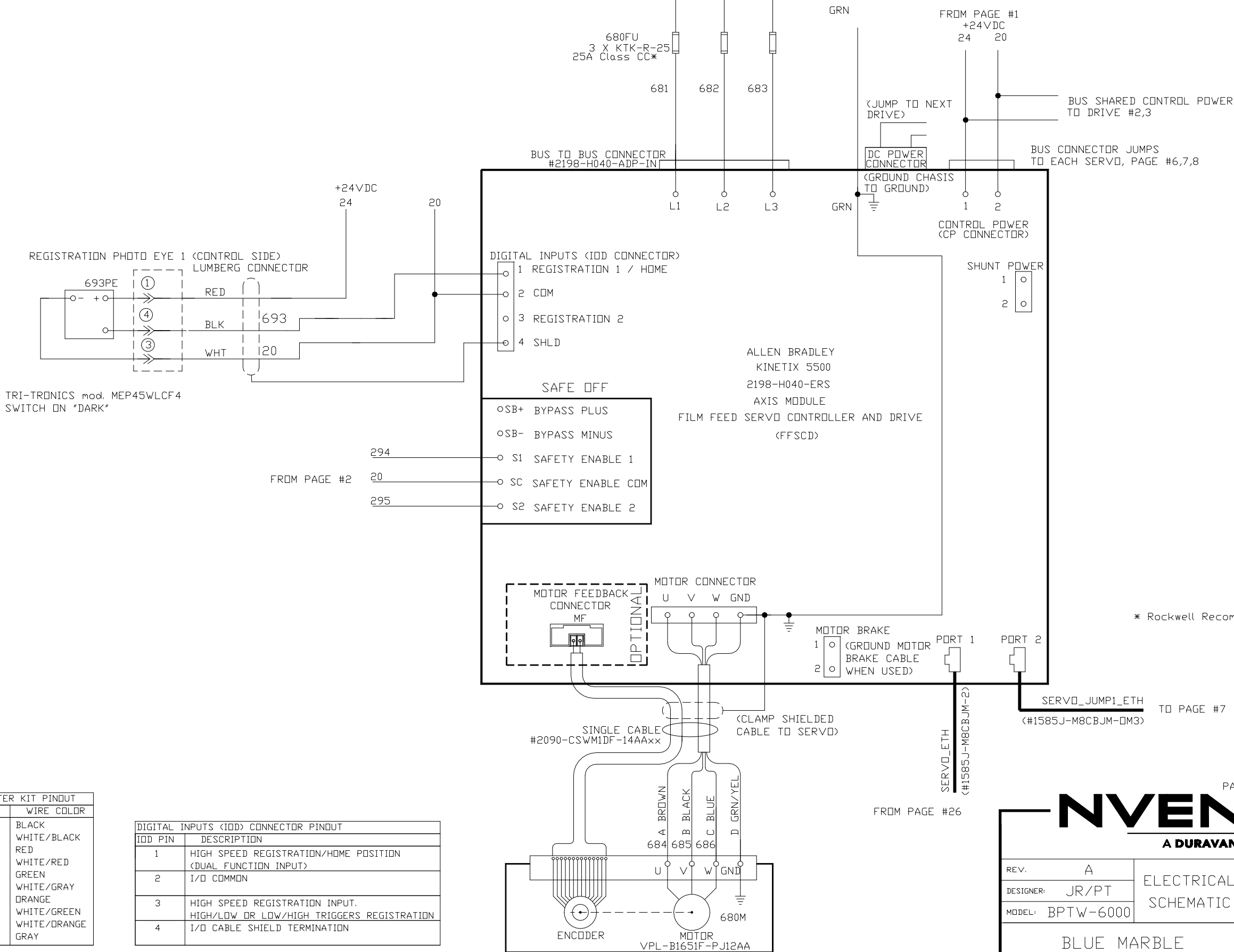
NVENIA

A DURAVANT COMPANY

REV. A	ELECTRICAL SCHEMATIC	SIZE: B
DESIGNER: JR/PT		DATE: 12/02/2021
MODEL: BPTW-6000		SHEET: 5 OF 16
BLUE MARBLE		DRAWING NUMBER: 210012-05

FROM PAGE #1
460 VAC

WLI
WL2
WL3



2198-H2DCK CONVERTER KIT PINOUT		
TERMINAL	SIGNAL	WIRE COLOR
1	SIN+	BLACK
2	SIN-	WHITE/BLACK
3	CDS+	RED
4	CDS-	WHITE/RED
5	DATA+	GREEN
6	ECOM	WHITE/GRAY
7	EPWR_9V	ORANGE
10	DATA-	WHITE/GREEN
11	TS+	WHITE/ORANGE
14	EPWR_5V	GRAY

DIGITAL INPUTS (IOD) CONNECTOR PINOUT	
IOD PIN	DESCRIPTION
1	HIGH SPEED REGISTRATION/HOME POSITION (DUAL FUNCTION INPUT)
2	I/O COMMON
3	HIGH SPEED REGISTRATION INPUT. HIGH/LOW OR LOW/HIGH TRIGGERS REGISTRATION
4	I/O CABLE SHIELD TERMINATION

103XX

DEVICE NAME

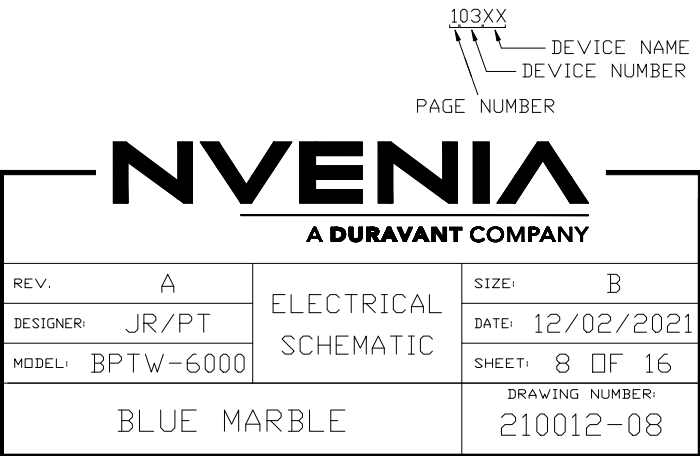
DEVICE NUMBER

PAGE NUMBER

NVENIA

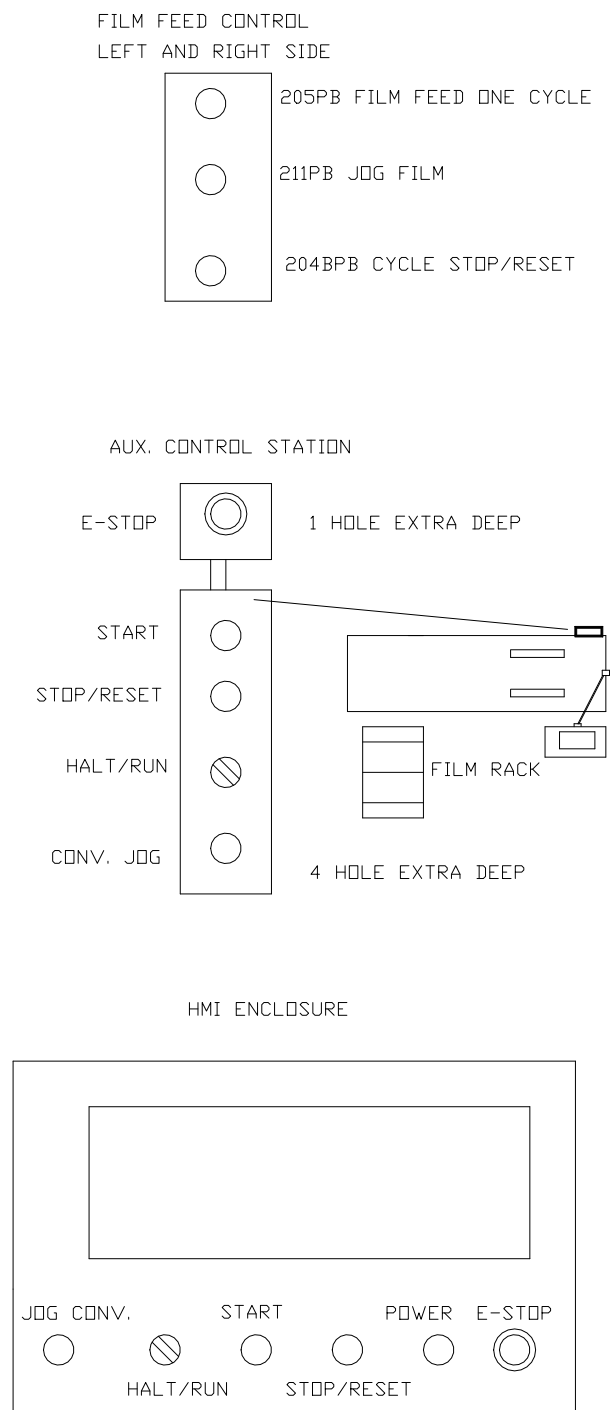
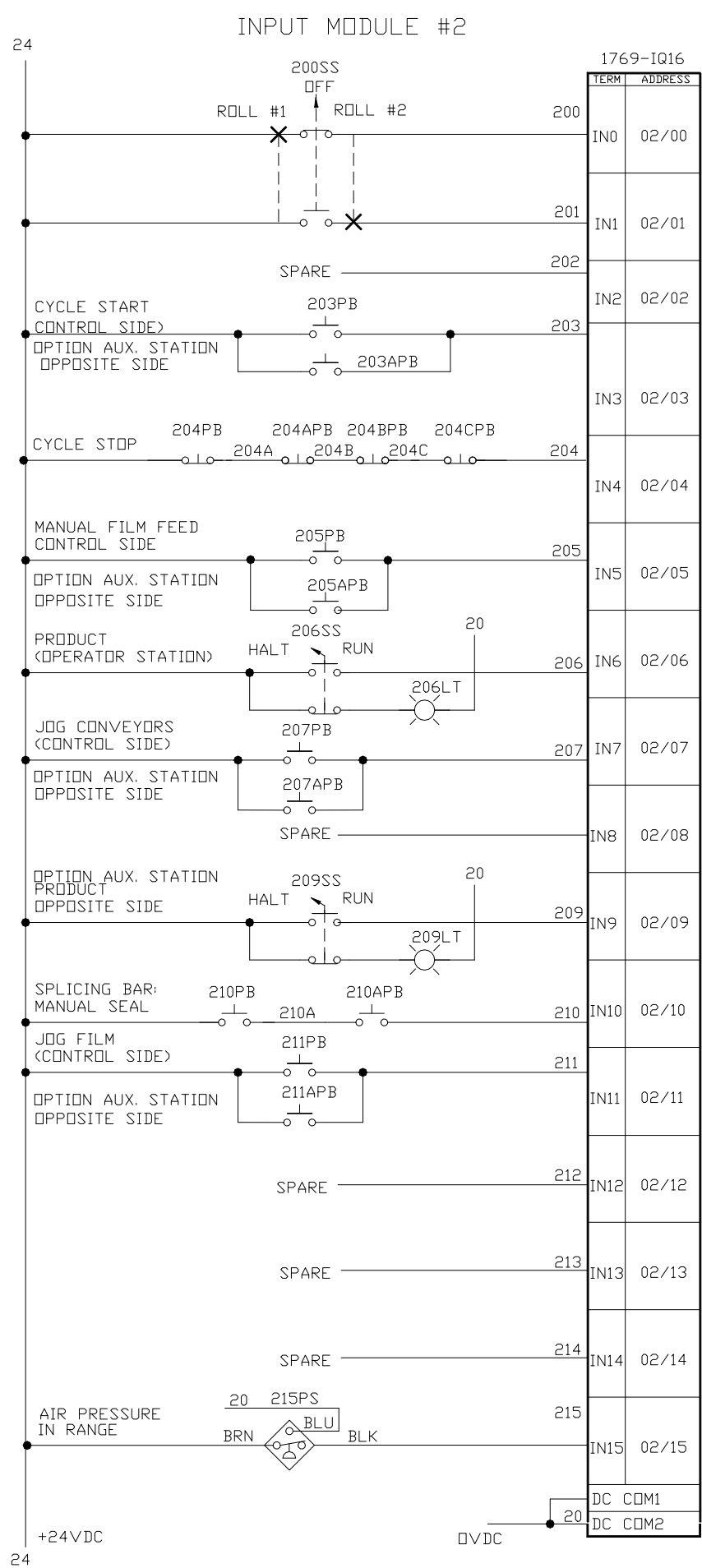
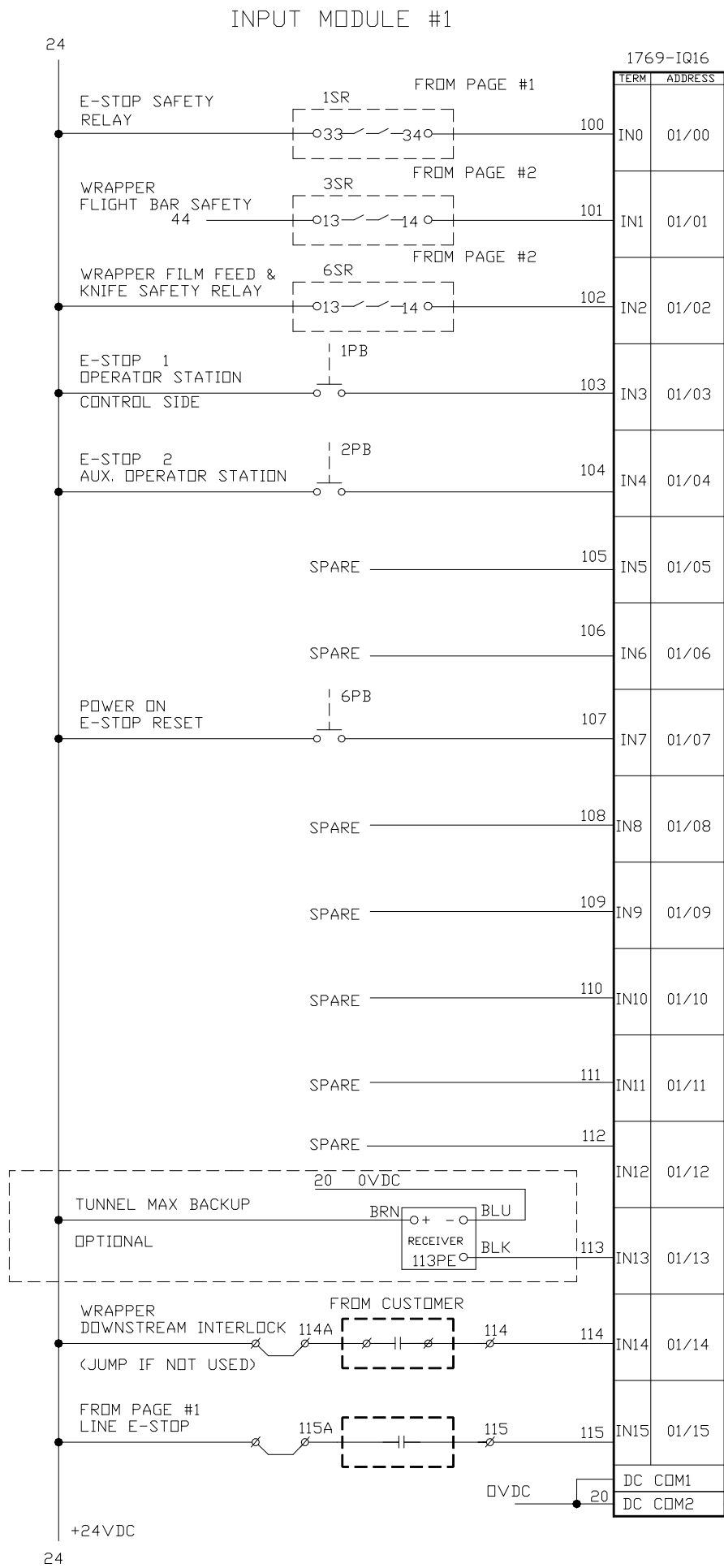
A DURAVANT COMPANY

REV. A	ELECTRICAL SCHEMATIC	SIZE: B
DESIGNER: JR/PT		DATE: 12/02/2021
MODEL: BPTW-6000		SHEET: 6 OF 16
BLUE MARBLE		DRAWING NUMBER: 210012-06



2198-H2DCK CONVERTER KIT PINDUT		
TERMINAL	SIGNAL	WIRE COLOR
1	SIN+	BLACK
2	SIN-	WHITE/BLACK
3	CDS+	RED
4	CDS-	WHITE/RED
5	DATA+	GREEN
6	ECOM	WHITE/GRAY
7	EPWR_9V	ORANGE
10	DATA-	WHITE/GREEN
11	TS+	WHITE/ORANGE
14	EPWR_5V	GRAY

DIGITAL INPUTS (IDD) CONNECTOR PINDUT	
IDD PIN	DESCRIPTION
1	HIGH SPEED REGISTRATION/HOME POSITION (DUAL FUNCTION INPUT)
2	I/O COMMON
3	HIGH SPEED REGISTRATION INPUT. HIGH/LOW OR LOW/HIGH TRIGGERS REGISTRATION
4	I/O CABLE SHIELD TERMINATION

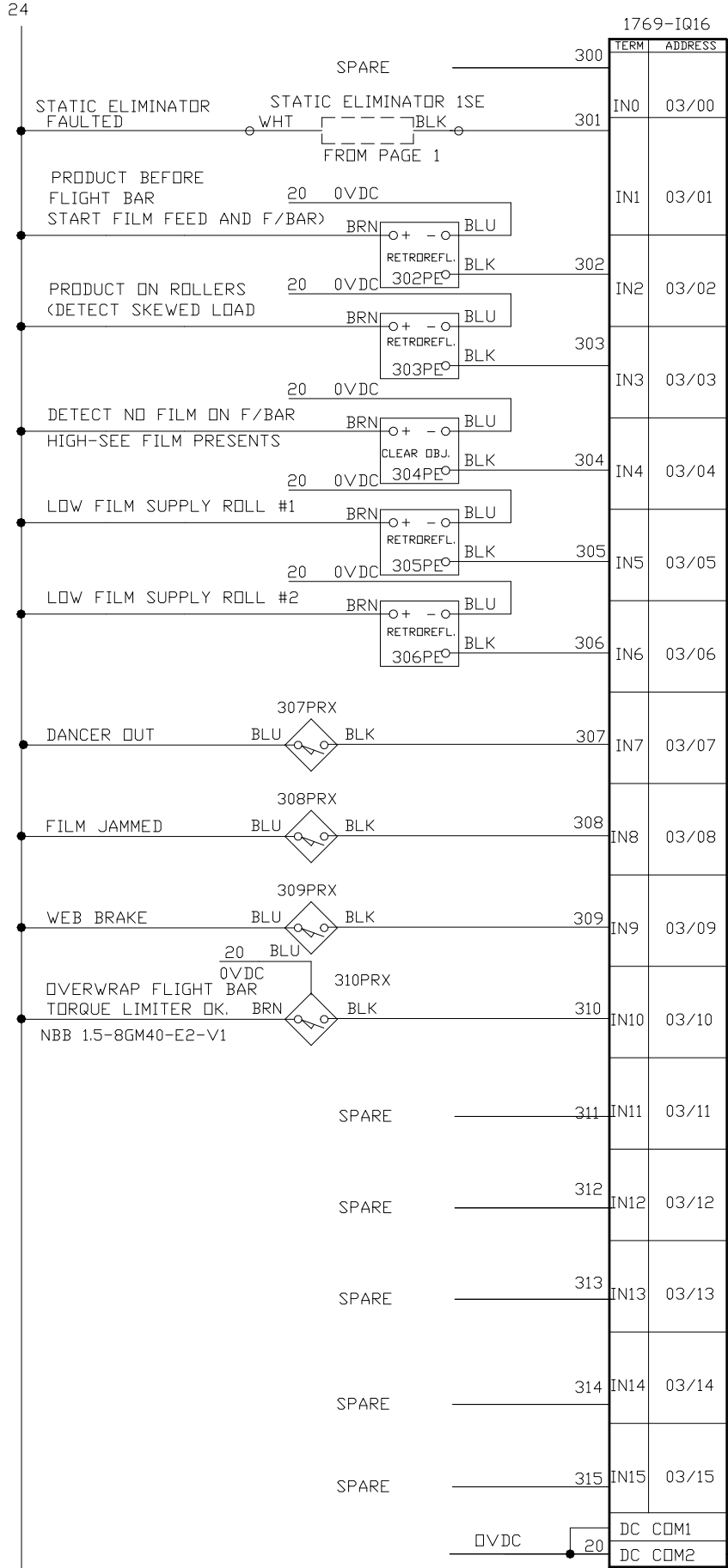


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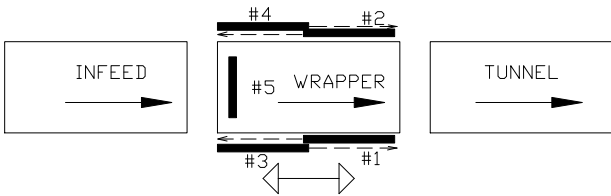
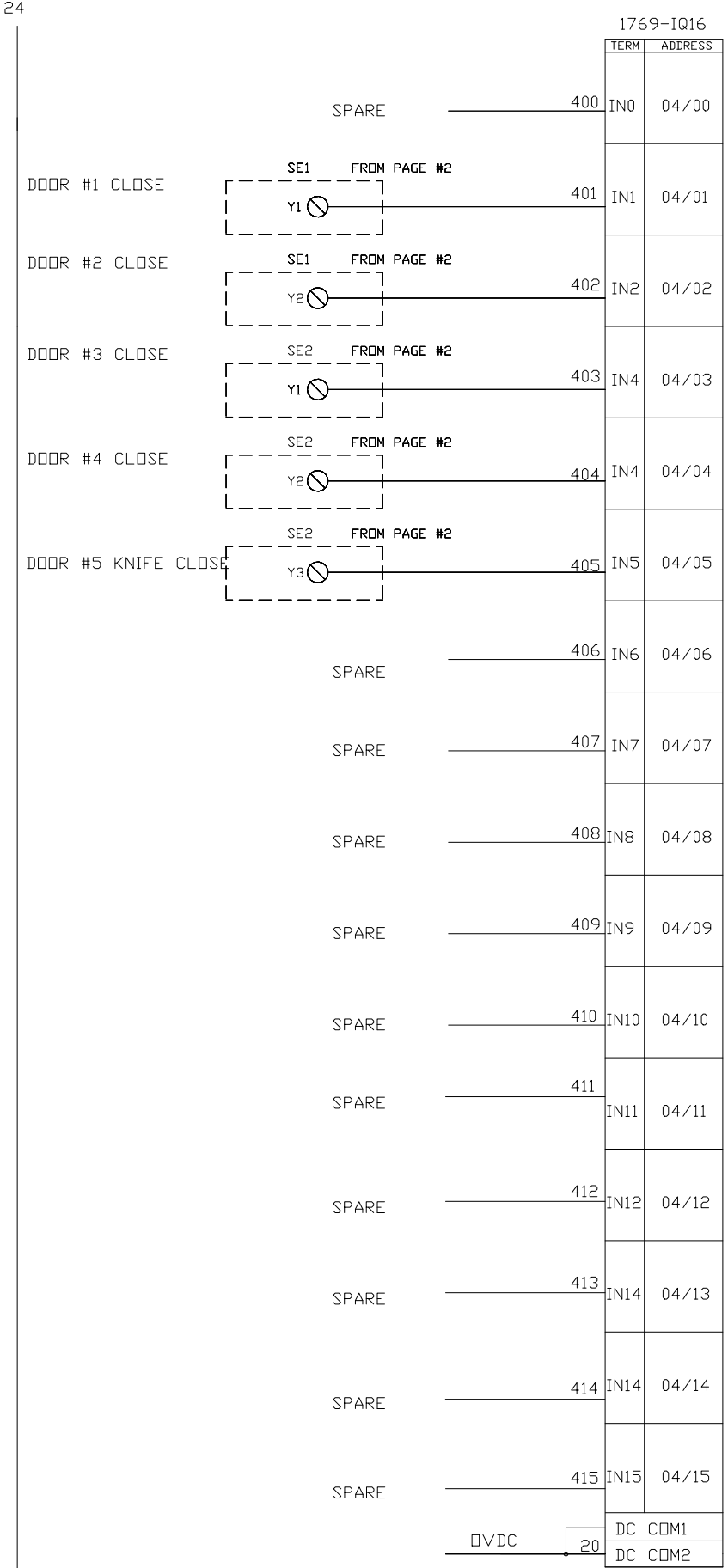
A DURAVANT COMPANY

REV. A	ELECTRICAL SCHEMATIC	SIZE B
DESIGNER: JR/PT		DATE: 12/02/2021
MODEL: BPTW-6000		SHEET: 9 OF 16
BLUE MARBLE		DRAWING NUMBER: 210012-09

INPUT MODULE #3



INPUT MODULE #4



0103CB
CIRCUIT BREAKER NUMBER
PAGE NUMBER

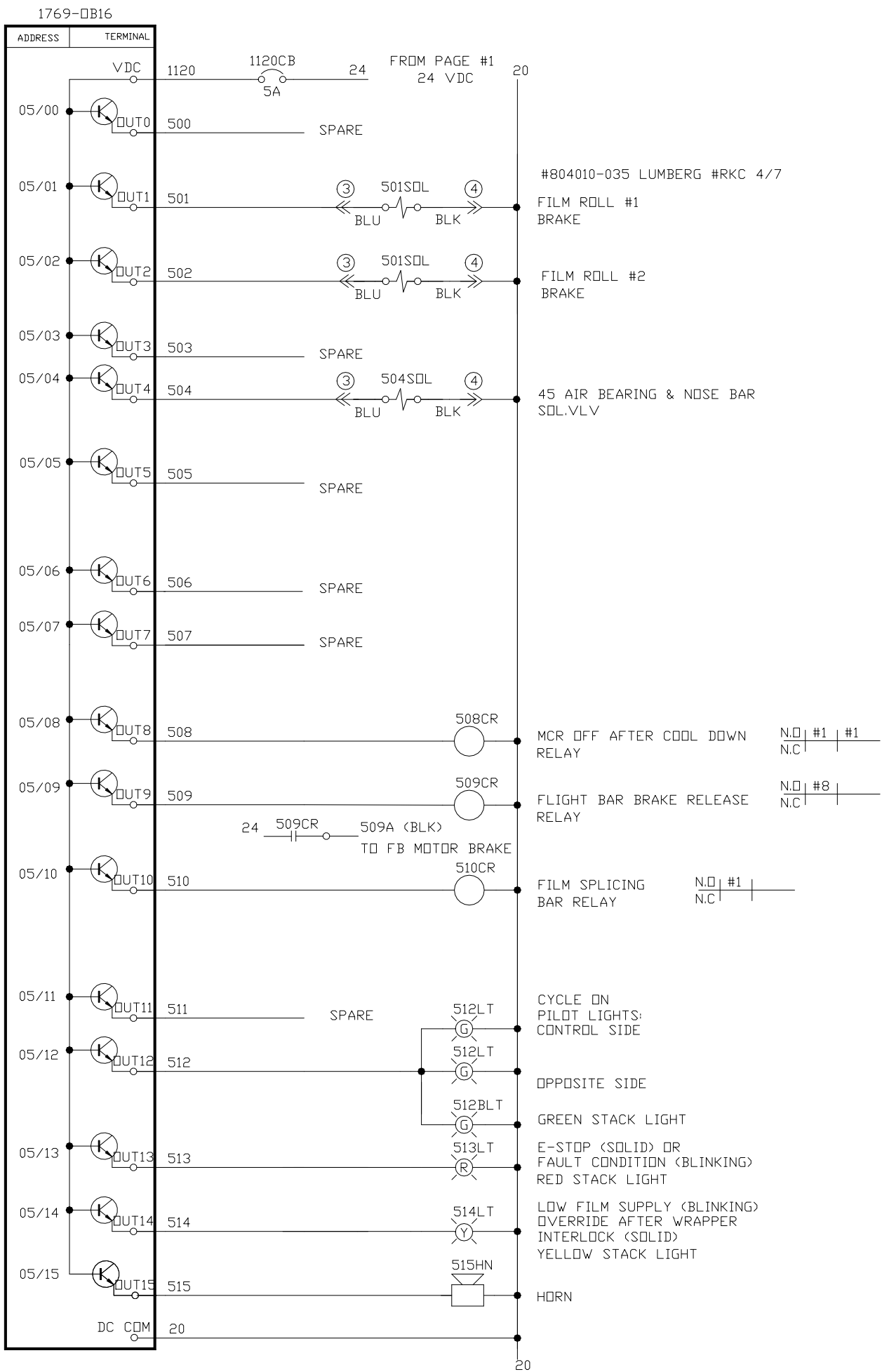
NVENIA

A DURAVANT COMPANY

REV. A	ELECTRICAL SCHEMATIC	SIZE: B
DESIGNER: JR/PT		DATE: 12/02/2021
MODEL: BPTW-6000		SHEET: 10 OF 16

BLUE MARBLE	DRAWING NUMBER: 210012-10
-------------	---------------------------

OUTPUT MODULE #5

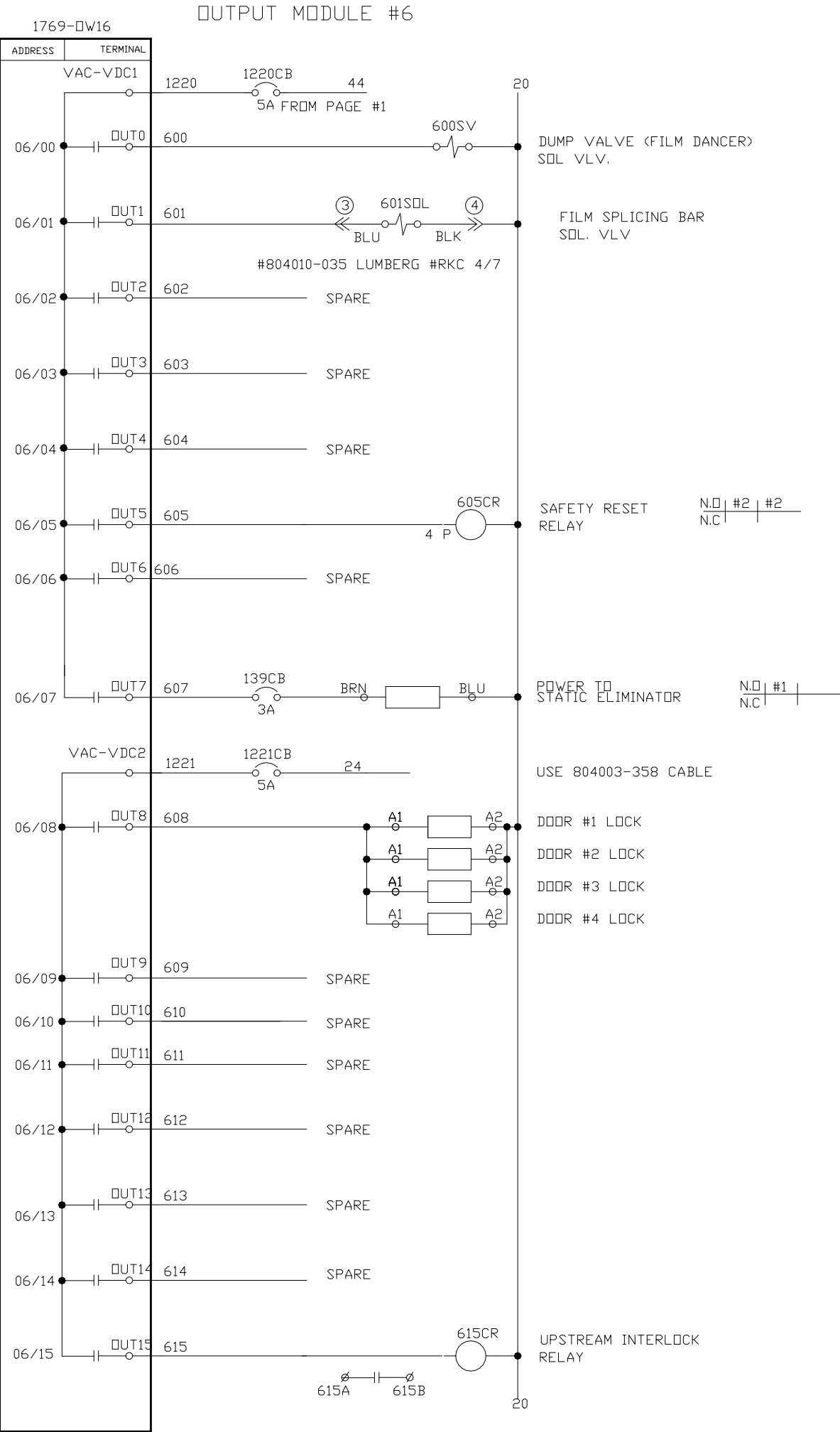


0103CB
CIRCUIT BREAKER NUMBER
PAGE NUMBER

NVENIA

A DURAVANT COMPANY

REV. A	ELECTRICAL SCHEMATIC	SIZE: B
DESIGNER: JR/PT		DATE: 12/02/2021
MODEL: BPTW-6000		SHEET: 11 OF 16
BLUE MARBLE		DRAWING NUMBER: 210012-11



NVENIA

A DURAVANT COMPANY

REV. A	ELECTRICAL SCHEMATIC	SIZE: B
DESIGNER: JR/PT		DATE: 12/02/2021
MODEL: BPTW-6000		SHEET: 12 OF 16
BLUE MARBLE		DRAWING NUMBER: 210012-12

PAGES 13-15 LEFT INTENTIONALLY BLANK

REV.

DESIGNER:

MODEL:

A

JR/PT

BPTW-6000

ELECTRICAL

SCHEMATIC

SIZE:

DATE:

SHEET:

B

12/02/2021

13-15 OF 16

BLUE MARBLE

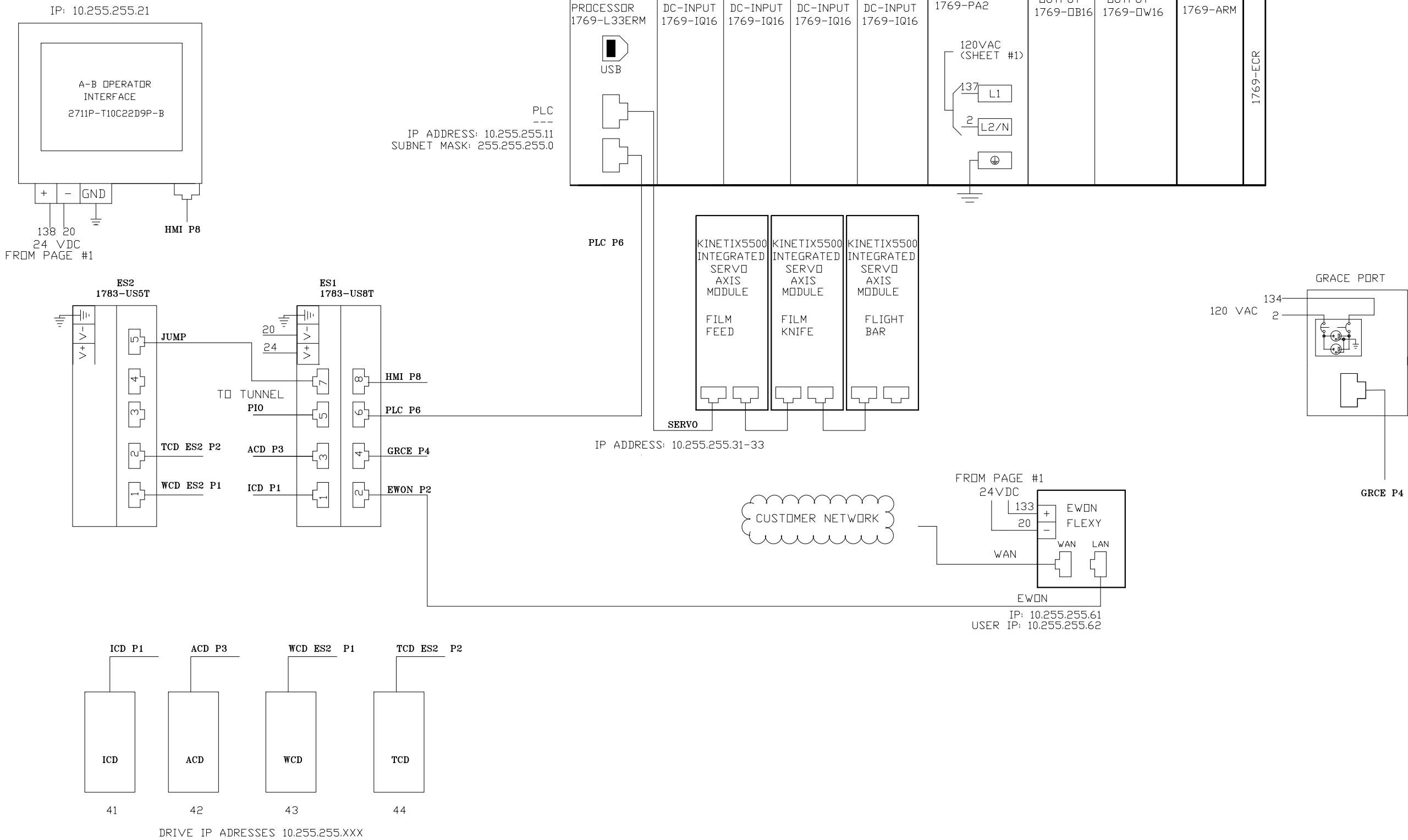
DRAWING NUMBER:

210012-13-15

NVENIA

A DURAVANT COMPANY

ALLEN BRADLEY COMPACTLOGIX



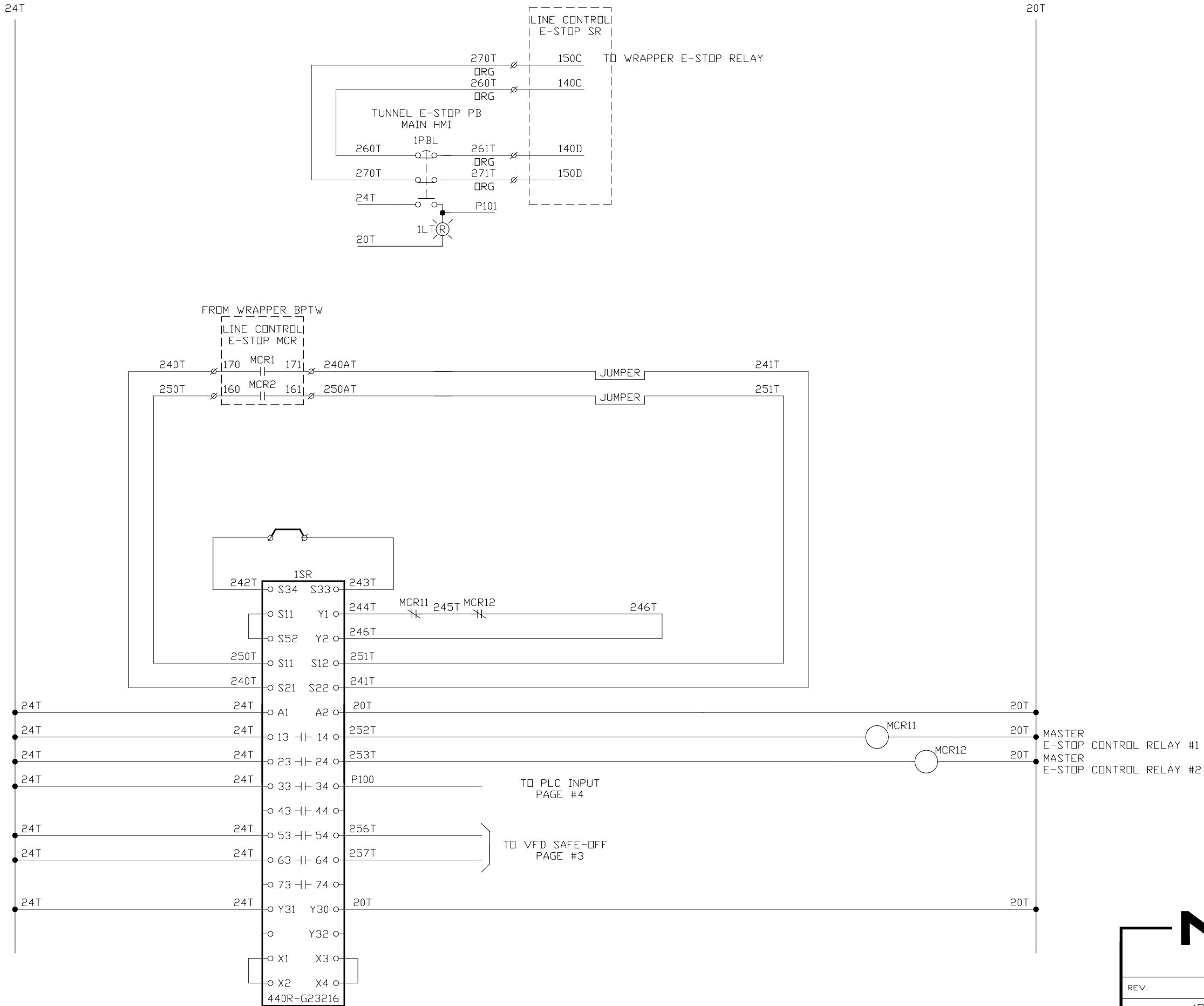
NVENIA

A DURAVANT COMPANY

REV. A	ELECTRICAL SCHEMATIC	SIZE: B
DESIGNER: JR/PT		DATE: 12/02/2021
MODEL: BPTW-6000		SHEET: 16 OF 16
BLUE MARBLE		DRAWING NUMBER: 210012-16

24T

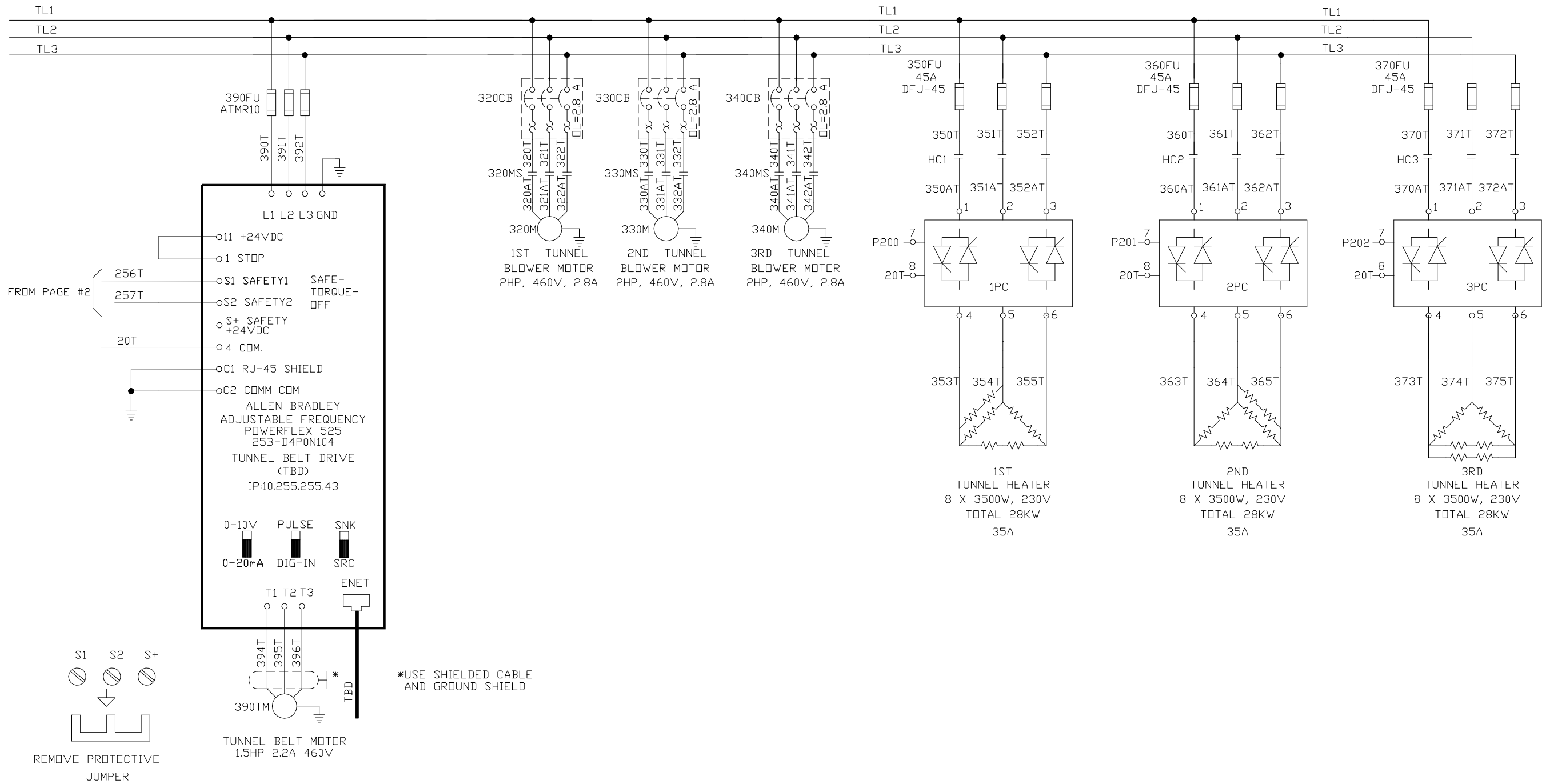
20T



NVENIA

A DURAVANT COMPANY

REV. A	ELECTRICAL SCHEMATIC	SIZE: B
DESIGNER: JR/PT		DATE: 12/06/2021
MODEL: 3-ZONE		SHEET: T02 OF 7
BLUE MARBLE		DRAWING NUMBER: 210012-T02



POWER FLEX 525 DRIVE SET UP
(DIFFERENT THAN DEFAULT)

DISPLAY	PARAMETER DESCRIPTIONS	SETTING
P031	RATED VOLTAGE	460
P033	MOTOR OL CURRENT	1.2 *
P046	START SOURCE 1	5 (ETH)
P047	SPEED REFERENCE 1	15 (ETH)
P041	ACCELERATION TIME	1 SEC
P042	DECELERATION TIME	1 SEC
P044	MAX FREQUENCY	60 HZ
A541	AUTO RESTART TRIES	0.0
A543	START AT POWER UP	1.0

* SET TO THE MAXIMUM ALLOWABLE MOTOR CURRENT
AUTO RESTART TRIES SET TO DEFAULT 0

0103CB
PAGE NUMBER

NVENIA

A DURAVANT COMPANY

REV. A	ELECTRICAL SCHEMATIC	SIZE: B
DESIGNER: JR/PT		DATE: 12/06/2021
MODEL: 3-ZONE		SHEET: T03 OF 7
BLUE MARBLE		DRAWING NUMBER: 210012-T03

The diagram illustrates the wiring for the 1734-IB8 module. It shows a 24VDC power source connected to a common rail. The module's input terminals are connected to various safety and motor control components:

- Terminal 10 (P100):** Connected to the TUNNEL E-STOP SAFETY RELAY (1SR) through a 33ms delay.
- Terminal 11 (P101):** Connected to the TUNNEL E-STOP.
- Terminal 12 (P102):** SPARE.
- Terminal 13 (P103):** SPARE.
- Terminal 14 (P104):** Connected to the TUNNEL BLOWER MOTOR STARTERS ON through a 320ms delay, a 330ms delay, and a 340ms delay.
- Terminal 15 (P105):** Connected to the TUNNEL BLOWER MOTOR CIRCUIT BREAKER #1 through a 320CB delay.
- Terminal 16 (P106):** Connected to the TUNNEL BLOWER MOTOR CIRCUIT BREAKER #2 through a 330CB delay.
- Terminal 17 (P107):** Connected to the TUNNEL BLOWER MOTOR CIRCUIT BREAKER #3 through a 340CB delay.

The diagram also includes a terminal block table for the 1734-IB8 module:

TERM	PIN	ADDRESS
10	0	I:1/00
11	1	I:1/01
12	2	I:1/02
13	3	I:1/03
14	4	I:1/04
15	5	I:1/05
16	6	I:1/06
17	7	I:1/07

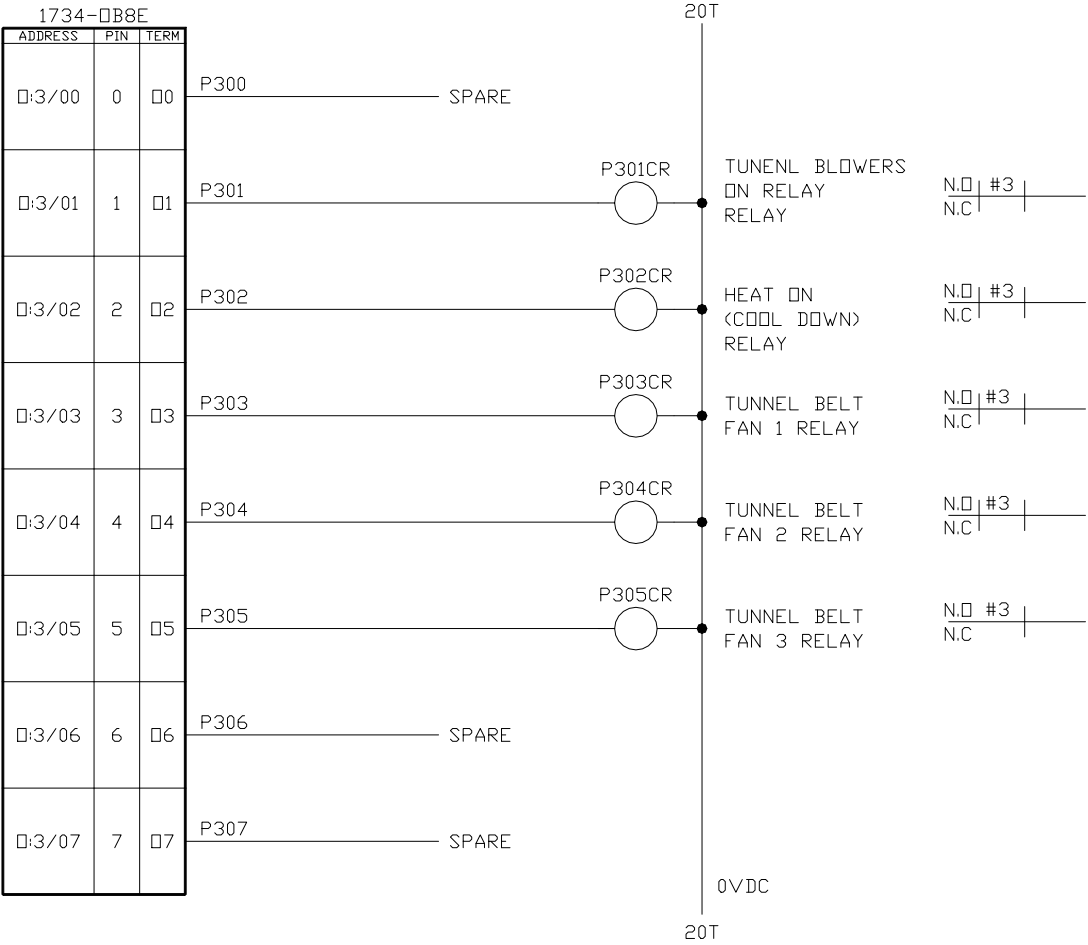
[illegible]

I0  0	I1  1
I2  2	I3  3
I4  4	I5  5
I6  6	I7  7

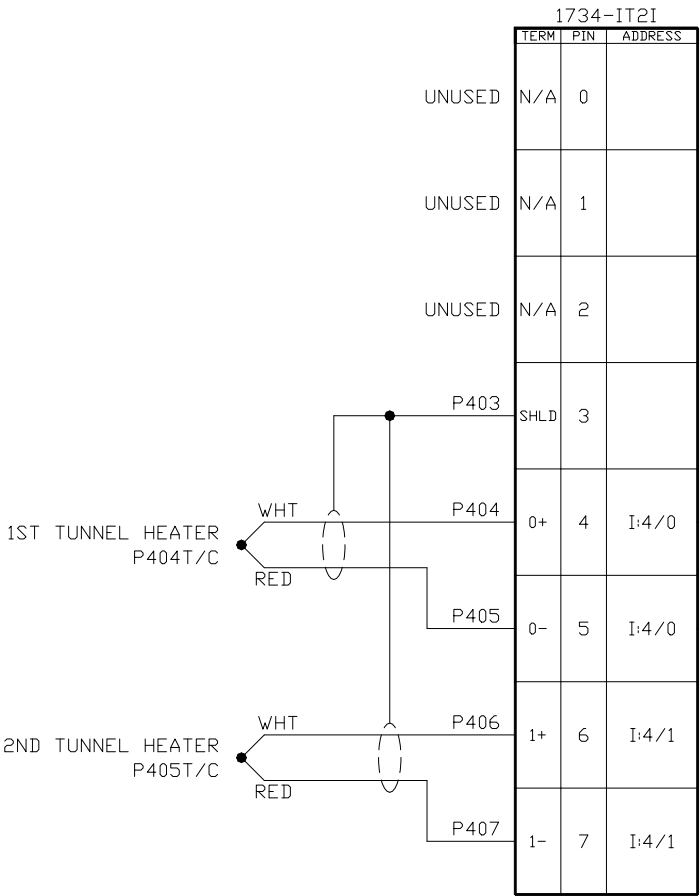
0	1
2	3
4	5
6	7

NIVENIA A DURAVANT COMPANY				
REV.	A	ELECTRICAL SCHEMATIC	SIZE:	B
DESIGNER:	JR/PT		DATE:	12/06/2021
MODEL:	3-ZONE		SHEET:	T04 OF 7
BLUE MARBLE			DRAWING NUMBER:	
			210012-T04	

POINT I/O DC OUTPUT MODULE #3



POINT I/O J-TYPE THERMOCOUPLE INPUT MODULE #4



TERMINAL LAYOUT FOR 1734-IT2I

N/A	N/A
0	1
N/A	SHLD
2	3
0+	0-
4	5
1+	1-
6	7

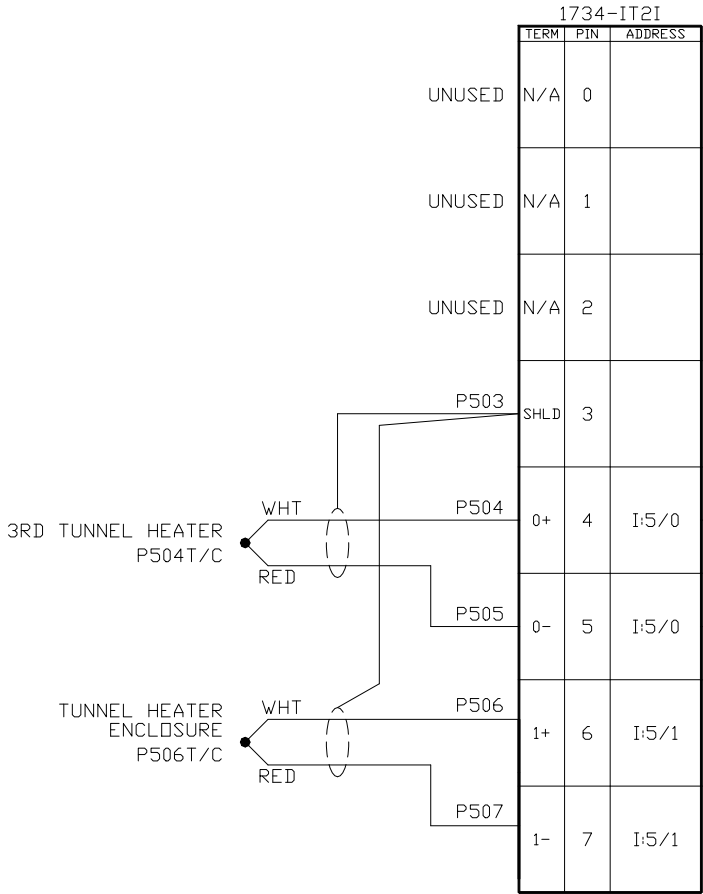
1734-TB

NVENIA

A DURAVANT COMPANY

REV. A	ELECTRICAL SCHEMATIC	SIZE: B
DESIGNER: JR/PT		DATE: 12/06/2021
MODEL: 3-ZONE		SHEET: T05 OF 7
BLUE MARBLE		DRAWING NUMBER: 210012-T05

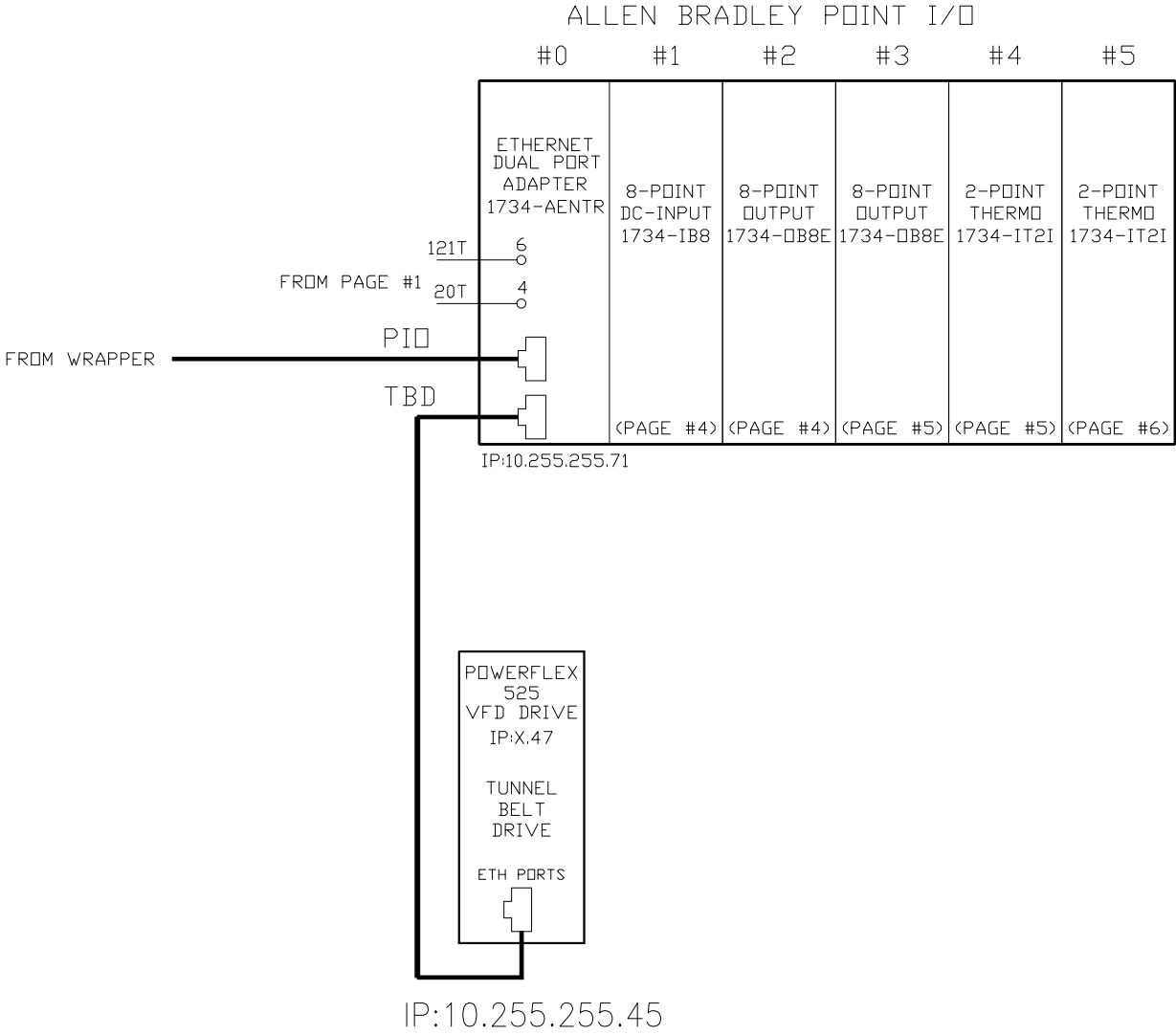
POINT I/O J-TYPE THERMOCOUPLE INPUT MODULE #5



NVENIA

A DURAVANT COMPANY

REV. A	ELECTRICAL SCHEMATIC	SIZE: B
DESIGNER: JR/PT		DATE: 12/06/2021
MODEL: 3-ZONE		SHEET: T06 OF 7
BLUE MARBLE		DRAWING NUMBER: 210012-T06



NVENIA

A DURAVANT COMPANY

REV. A	ELECTRICAL SCHEMATIC	SIZE: B
DESIGNER: JR/PT		DATE: 12/06/2021
MODEL: 3-ZONE		SHEET: T07 OF 7
BLUE MARBLE		DRAWING NUMBER: 210012-T07