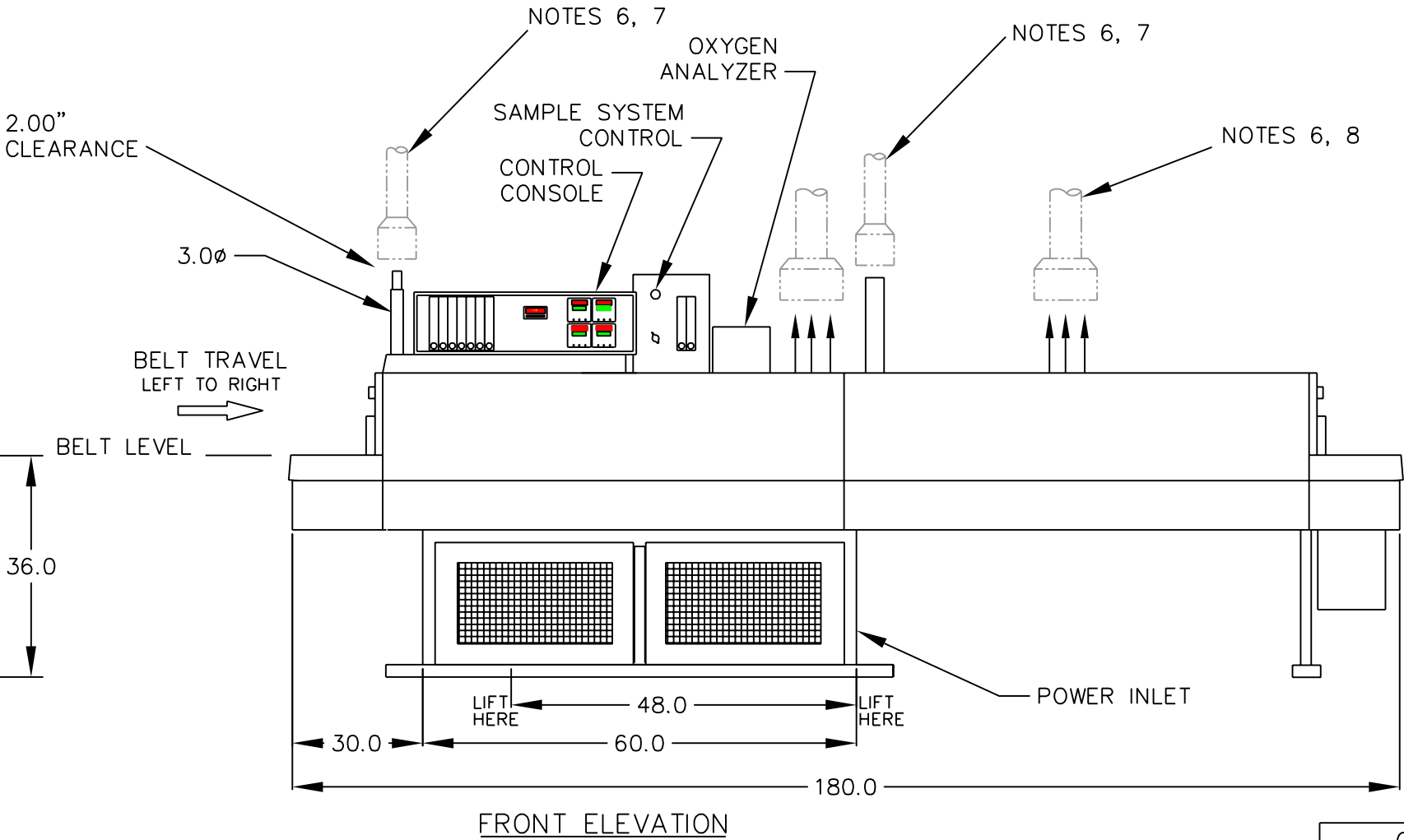
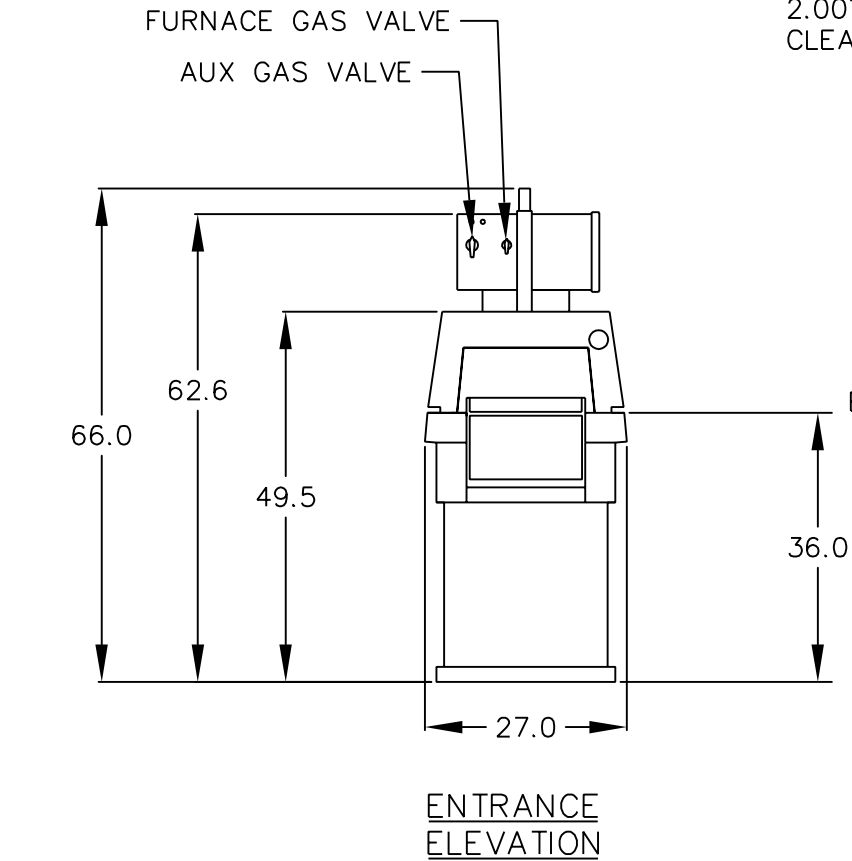
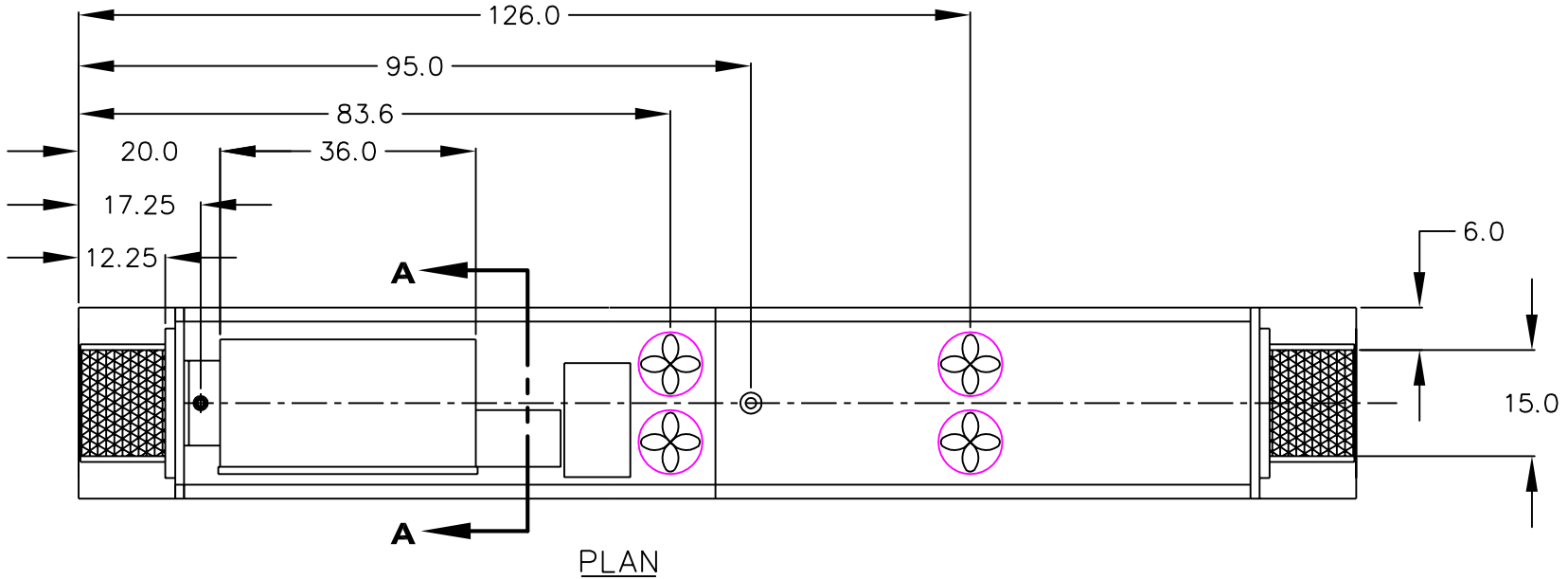
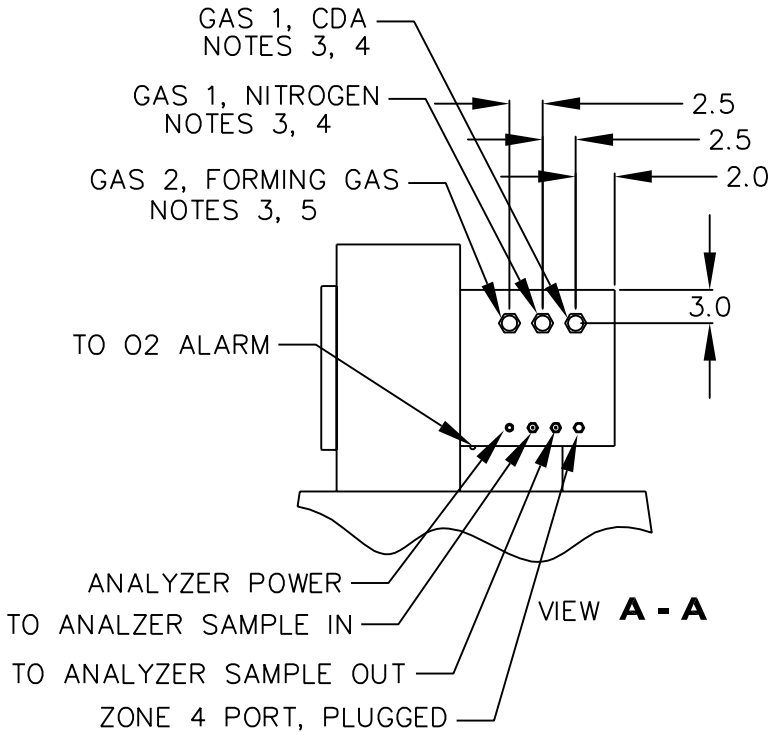


DRAWINGS & SCHEMATICS

Job/Master	Drawing Nbr.	Title
15-003	803-091615-45	FURNACE ARRANGEMENT, CU-915
15-003	803-091734-19	CHAMBER ARRANGEMENT, CU-915
15-003	214-091814-60	TRANSITION TUNNEL MOD
15-003	801-090342-05	PROCESS GAS PLUMBING, 3-GAS, 2-MODE
15-003	801-090776	GAS SAMPLING SYSTEM
15-003	802-101779-04	SAFETY PANEL ANALOG
15-003	802-101784-05	CONTROL ENCLOSURE ANALOG
15-003	802-101785-05	ALT ZONE CONTROL PANEL ANALOG
15-003	802-101781-05	FRAME WIRING – ANALOG
15-003	802-101814-08	ELEMENT WIRING CU-915
15-003	802-101873	MOISTURE & OXYGEN ANALYZER CONTROL

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



- NOTES:
- ALL DIMENSIONS ARE APPROXIMATE
 - OPTIONAL EQUIPMENT.
 - GAS CONNECTION 3/4 FEMALE NPT AT FURNACE
 - CONNECT TO GAS 1 INLET: AIR (CDA) OR NITROGEN SUPPLY, DRY, FILTERED AND REGULATED TO 70 PSIG.
 - DUAL GAS OPTION. CONNECT TO GAS 2 INLET: FORMING GAS OR OTHER SPECIALTY GAS FOR HEATING ZONES REGULATED TO 70 PSIG.
 - BY OTHERS.
 - RECOMMENDED PROCESS GAS EXHAUST 4.0 DIA INSULATED DUCT WITH 8.0 DIA COLLECTOR HOOD FOR MAX 82 SCFM @ 200C.
 - OPTIONAL CABINET VENTILATION 4.0 DIA DUCT WITH 8.0 X 12.0 RECTANGULAR HOOD FOR 2200 CFM @ 50C.
 - STANDARD TEMPERATURE; PRESSURE: 70F (21.1C); 14.7 PSIA (101.3 kPa).
 - APPROXIMATE FURNACE WIEGHT 2600 LBS

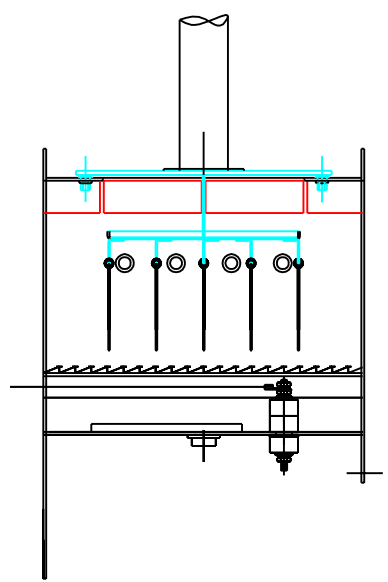
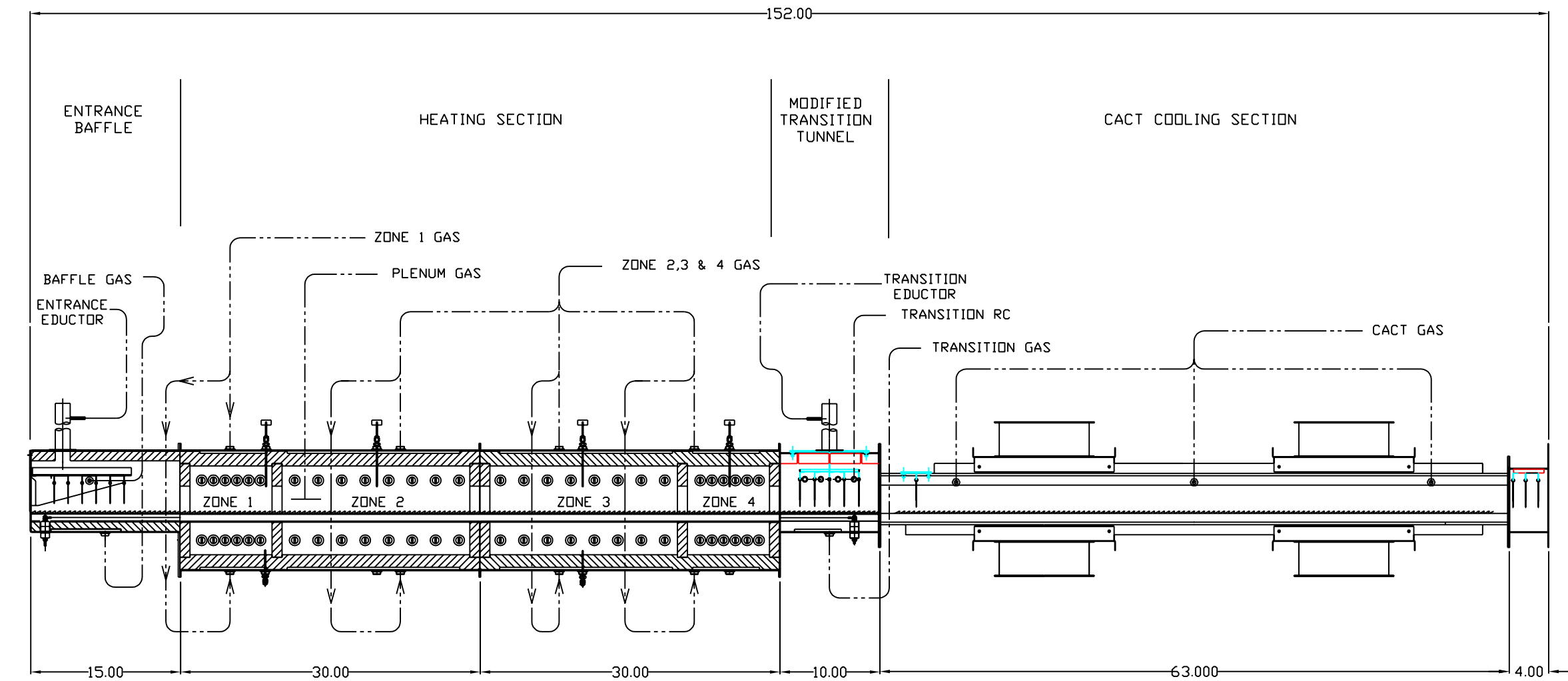
PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF LOCHABER CORNWALL, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF LOCHABER CORNWALL, INC. IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: DECIMALS ANGLES FRACTIONS X ± .3 XX ± .5° X/X ± 1/4 XX ± .03 XX.X ± .2°	MODEL NO. CU-915
		MATERIAL	APPROVALS
CONFIG.		FINISH	DATE
NEXT ASSY	USED ON		
APPLICATION		DO NOT SCALE DRAWING	

DRAWN C ROODE	5/14/15
CHECKED J CLARK	5/14/15
ISSUED J CLARK	5/14/15

GE FUEL CELLS LLC			
 LCI Furnaces DIVISION OF LOCHABER CORNWALL INC			
TITLE FURNACE ARRANGEMENT			
SIZE 15-003	JOB NO. 803-091615-45	DWG. NO. 803-091615-45	REV. 2
SCALE NONE	REF: GE 700000369	SHEET	1 OF 1

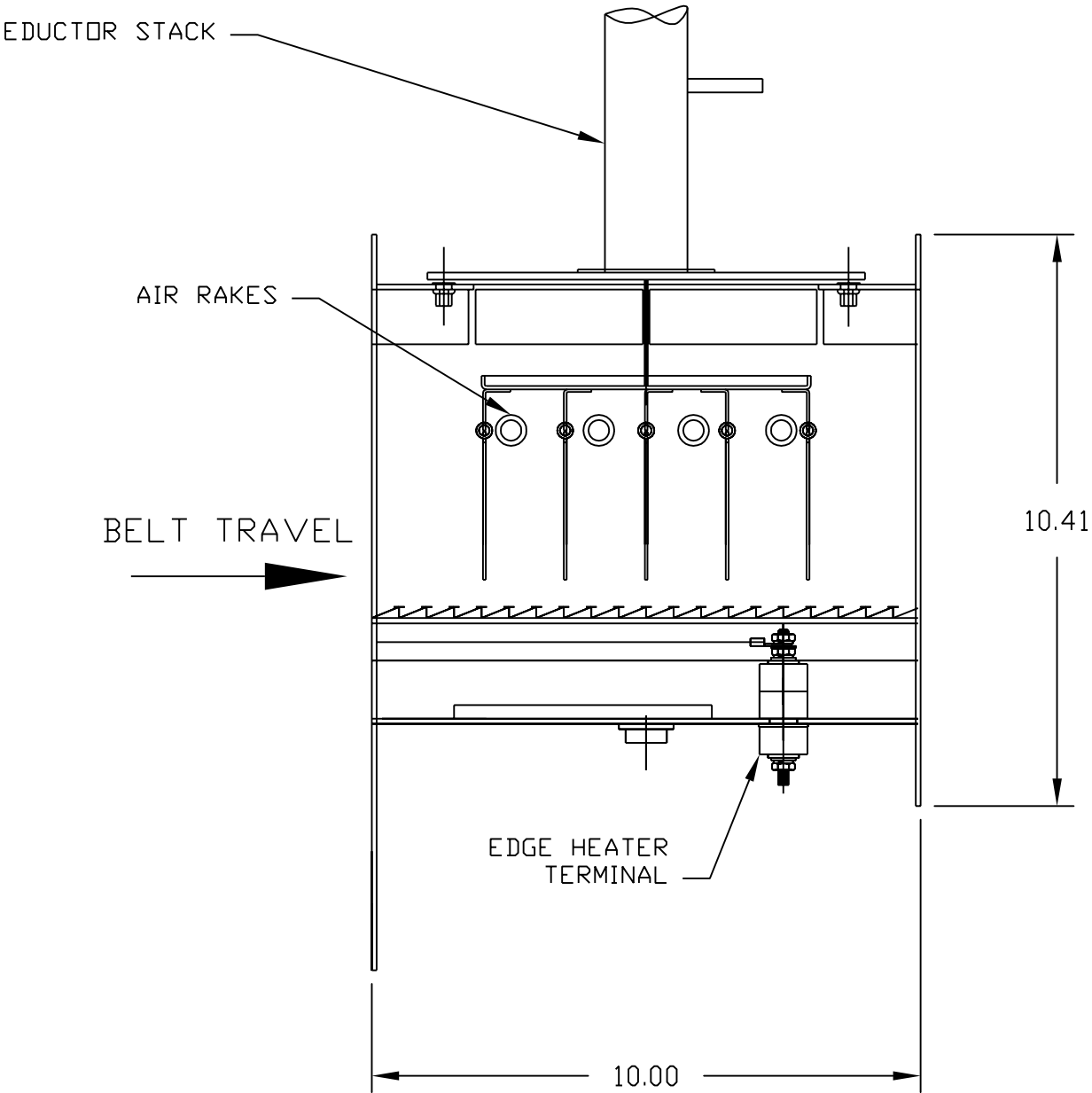
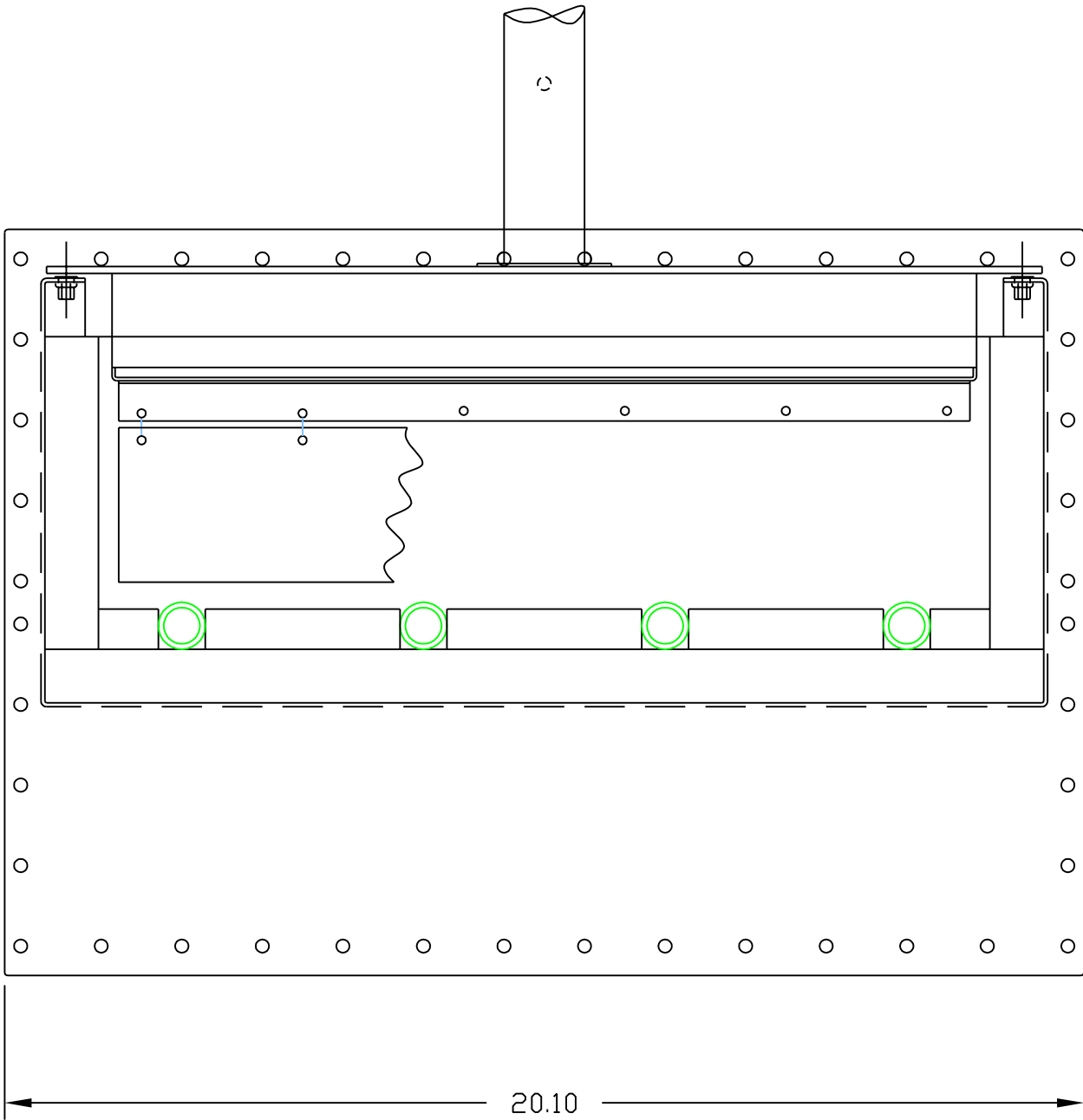


MODIFIED 10" LONG TRANSITION TUNNEL

RTC CU-915 CHAMBER

PROPRIETARY AND CONFIDENTIAL		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: DECIMALS ANGLES FRACTIONS X ± .5 XX ± .5° X/X ± 1/4 .XX ± .03 XX.X ± .2°		CU-915		 LCI Furnaces DIVISION OF LOCHABER CORNWALL INC							
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF LOCHABER CORNWALL, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF LOCHABER CORNWALL, INC. IS PROHIBITED.				APPROVALS		DATE		TITLE CHAMBER ARRANGEMENT					
		DRAWN C ROODE		4/5/15									
		MATERIAL		CHECKED J CLARK		4/5/15							
FINISH		ISSUED				SIZE		JOB NO.		DWG. NO.		REV.	
						15-003		803-091734-19		0			
DO NOT SCALE DRAWING						SCALE NONE		REF: GE 700000369				SHEET 1 OF 1	

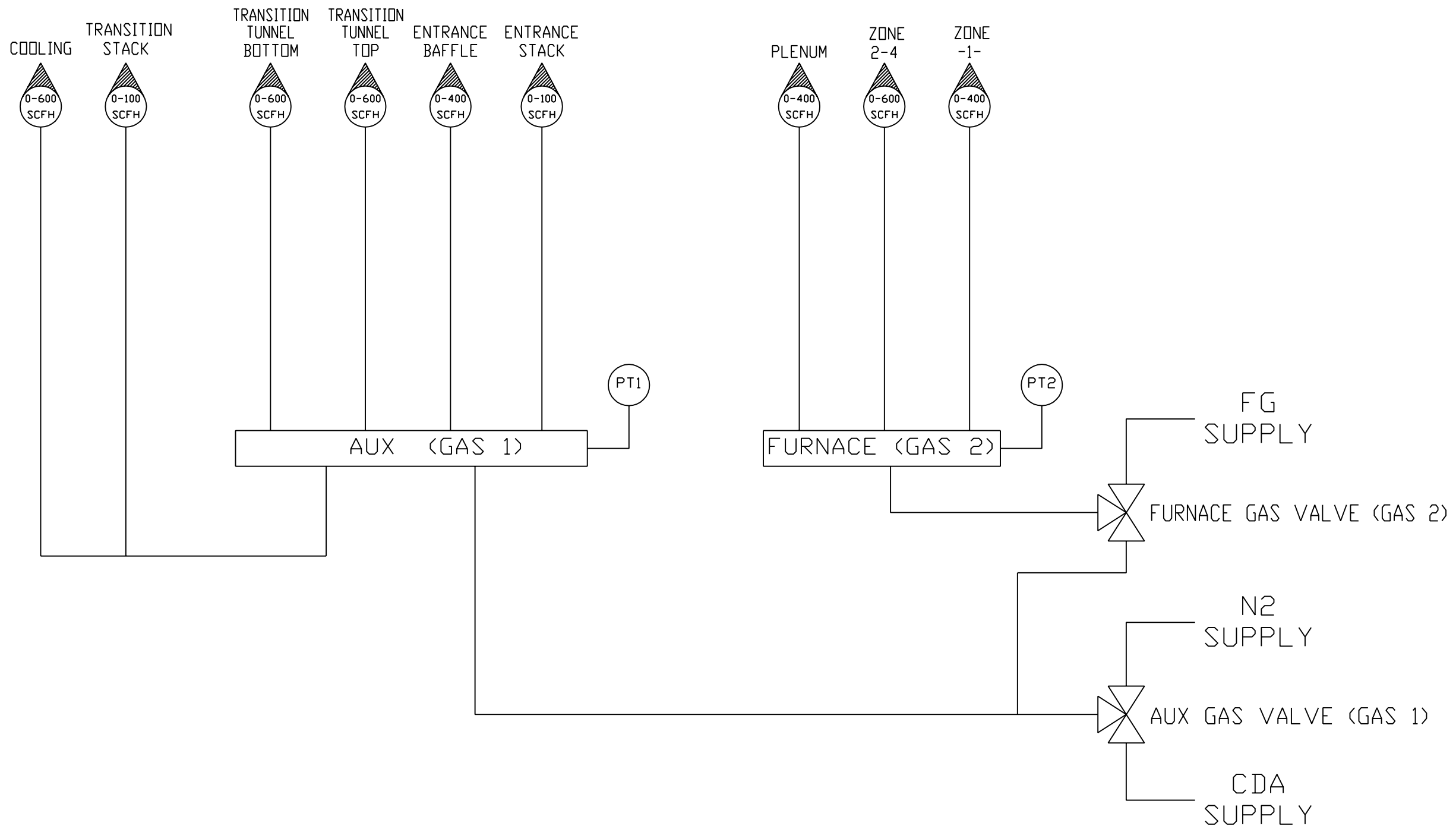
REVISIONS				
REV	DESCRIPTION	EO#	DATE	APPROVED



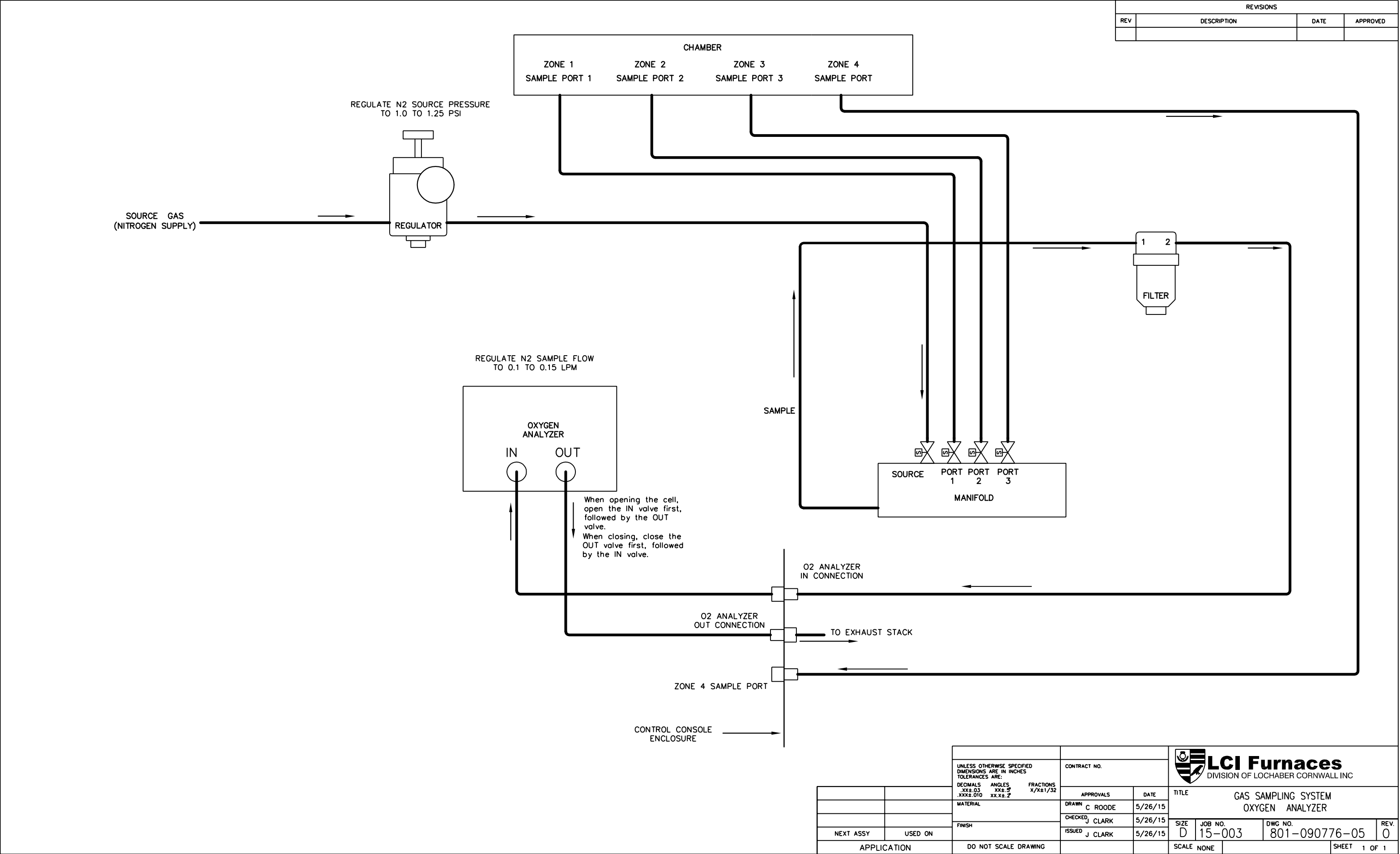
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: DECIMALS ANGLES FRACTIONS .XX ±.03 XX±.5 X/X±1/32 .XXX±.010 XX.X±.2		MODEL NO. 15" BELT, 10 LONG T.T.	
		APPROVALS	DATE
		DRAWN C ROODE	5/15/15
		CHECKED J CLARK	5/15/15
FINISH		ISSUED	
DO NOT SCALE DRAWING			

GE FUEL CELLS LLC			
PRELIMINARY			
 FURNACEPROS DIVISION OF LOCHABER CORNWALL, INC.			
TITLE TRANSITION TUNNEL, RAPID COOL MOD			
SIZE B	JOB NO. 15-003	DWG NO. 214-091814-60	REV 0
SCALE NONE	REF: GE 700000369	SHEET 1 OF 1	



PROPRIETARY AND CONFIDENTIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: DECIMALS ANGLES FRACTIONS X ± .5 XX ± 5° X/X ± 1/4 XX ± .03 XX.X ± .2*				 LCI Furnaces DIVISION OF LOCHABER CORNWALL INC				
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF LOCHABER CORNWALL, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF LOCHABER CORNWALL, INC. IS PROHIBITED.	MATERIAL	APPROVALS	DATE	TITLE					
	FINISH	DRAWN C ROODE	5/26/15	PROCESS PLUMBING THREE GAS TWO MODE					
		CHECKED J CLARK	5/26/15						
		ISSUED J CLARK	5/26/15	SIZE	MODEL NO. 15-003	DWG. NO. 801-090342-05	REV. -		
	DO NOT SCALE DRAWING			SCALE NONE		SHEET 1 OF 1			



UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:

DECIMALS
.XX±.03
.XXX±.010

ANGLES
XX±.5°
XX.X±.2°

FRACTIONS
X/X±1/32

CONTRACT NO.

APPROVALS

DATE

DRAWN C ROODE

CHECKED J CLARK

ISSUED J CLARK

5/26/15

5/26/15

5/26/15

FINISH

NEXT ASSY

USED ON

APPLICATION

DO NOT SCALE DRAWING

 **LCI Furnaces**
DIVISION OF LOCHABER CORNWALL INC

TITLE
GAS SAMPLING SYSTEM
OXYGEN ANALYZER

SIZE D

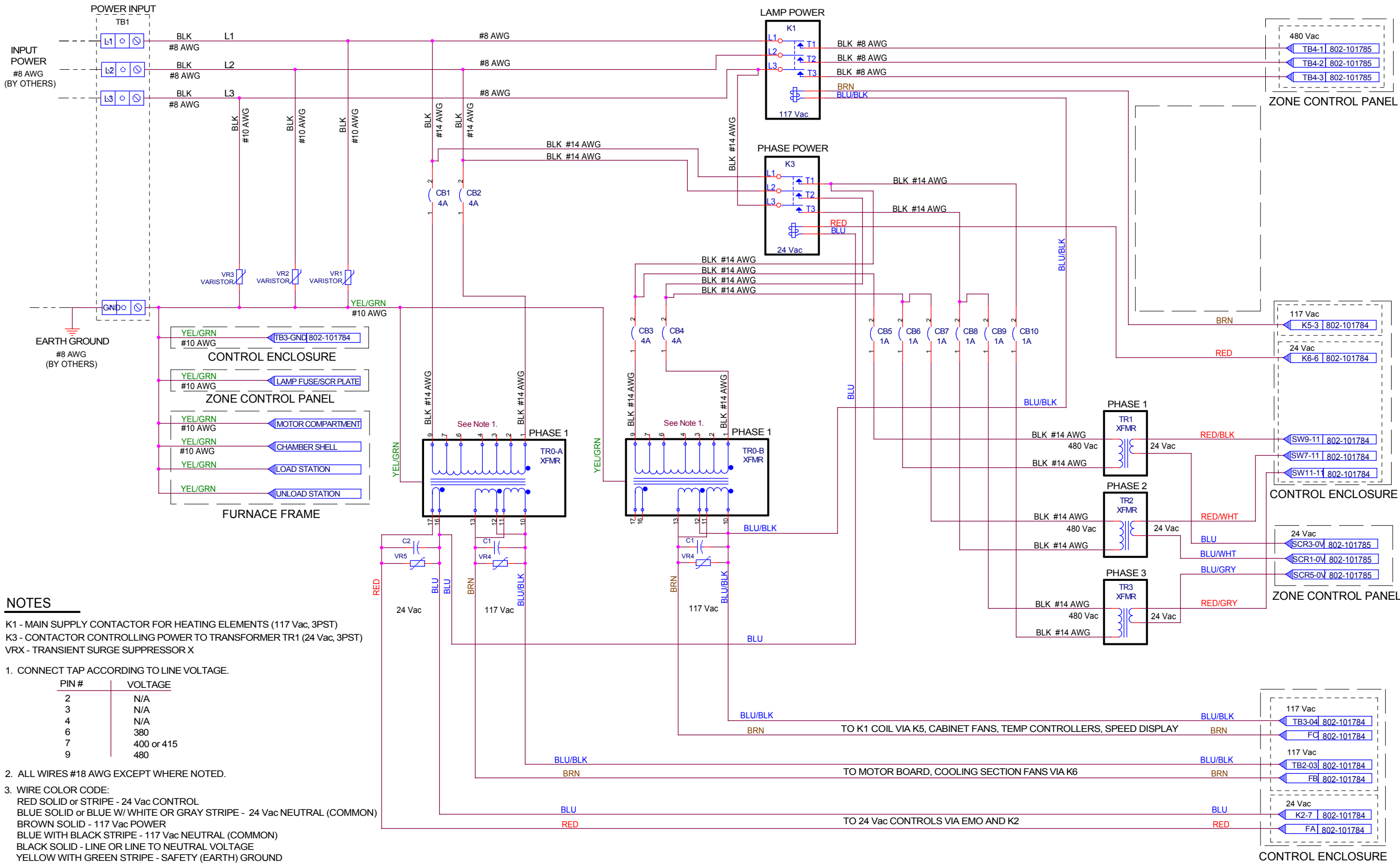
JOB NO.
15-003

DWG NO.
801-090776-05

REV.
0

SCALE NONE

SHEET 1 OF 1



LCI Furnaces

DIVISION OF LOCHABER CORNWALL, INC.
675 NORTH ECKHOFF STREET, BLDG D, ORANGE, CA 92668 USA

Title: **SAFETY PANEL ANALOG**

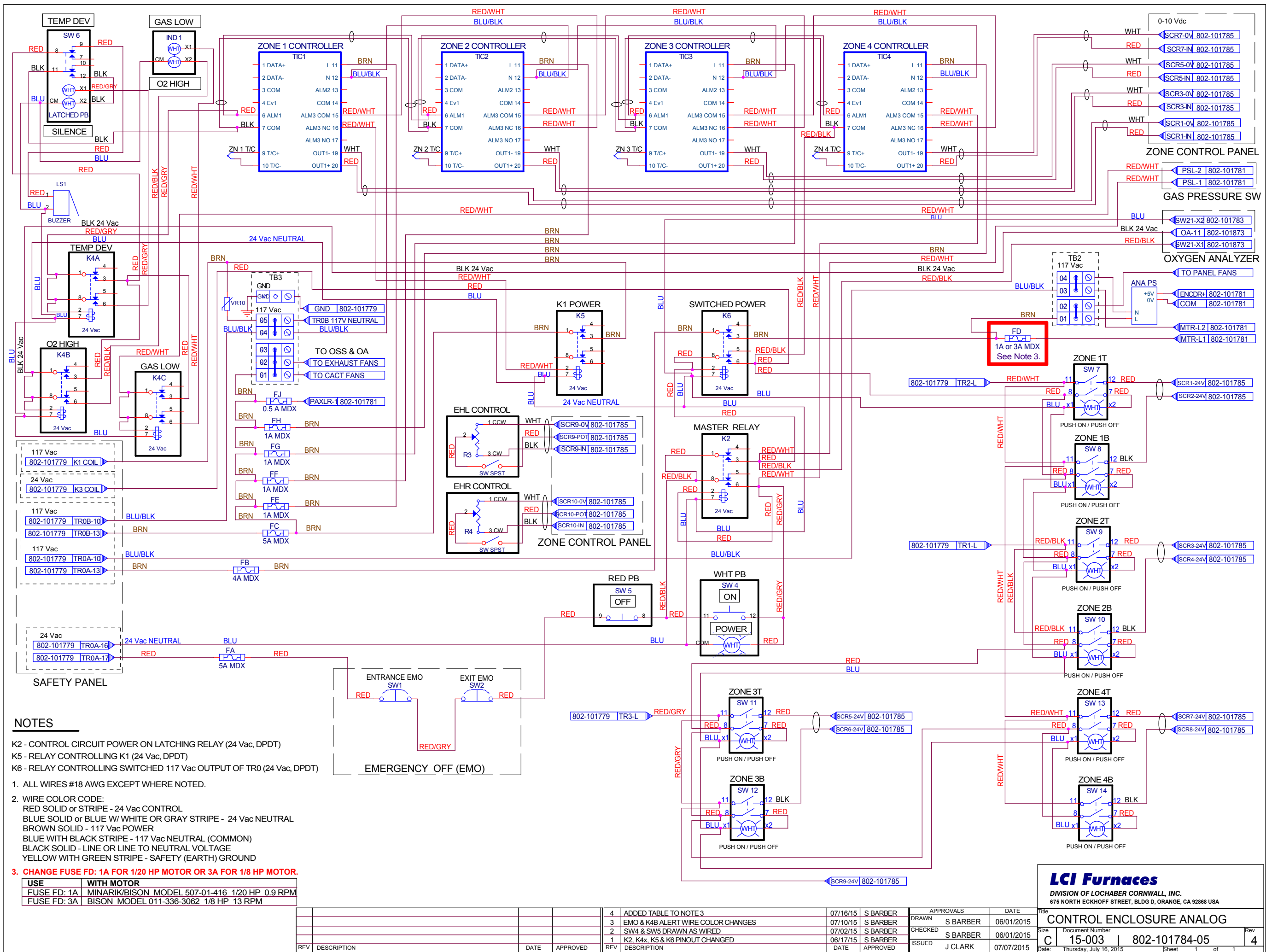
Size: C | Document Number: 15-003 | 802-101779-04 | Rev: 2

Date: Tuesday, July 07, 2015 | Sheet: 1 of 1

REV	DESCRIPTION	DATE	APPROVED
2	FUSES REPLACED WITH CB	07/16/15	S BARBER
1	OFF-PAGE CONNECTIONS TO K2, K5, K6 CHANGED	06/17/15	S BARBER

REV	DESCRIPTION	DATE	APPROVED
2	FUSES REPLACED WITH CB	07/16/15	S BARBER
1	OFF-PAGE CONNECTIONS TO K2, K5, K6 CHANGED	06/17/15	S BARBER

APPROVALS	DATE
DRAWN S BARBER	06/01/2015
CHECKED S BARBER	06/01/2015
ISSUED J CLARK	07/07/2015



NOTES

- K2 - CONTROL CIRCUIT POWER ON LATCHING RELAY (24 Vac, DPDT)
K5 - RELAY CONTROLLING K1 (24 Vac, DPDT)
K6 - RELAY CONTROLLING SWITCHED 117 Vac OUTPUT OF TR0 (24 Vac, DPDT)
1. ALL WIRES #18 AWG EXCEPT WHERE NOTED.
2. WIRE COLOR CODE:
RED SOLID or STRIPE - 24 Vac CONTROL
BLUE SOLID or BLUE W/ WHITE OR GRAY STRIPE - 24 Vac NEUTRAL
BROWN SOLID - 117 Vac POWER
BLUE WITH BLACK STRIPE - 117 Vac NEUTRAL (COMMON)
BLACK SOLID - LINE OR LINE TO NEUTRAL VOLTAGE
YELLOW WITH GREEN STRIPE - SAFETY (EARTH) GROUND
3. CHANGE FUSE FD: 1A FOR 1/20 HP MOTOR OR 3A FOR 1/8 HP MOTOR.
- | USE | WITH MOTOR |
|-------------|--|
| FUSE FD: 1A | MINARIK/BISON MODEL 507-01-416 1/20 HP 0.9 RPM |
| FUSE FD: 3A | BISON MODEL 011-336-3062 1/8 HP 13 RPM |

REV	DESCRIPTION	DATE	APPROVED	4	ADDED TABLE TO NOTE 3	07/16/15	S BARBER	APPROVALS	DATE	802-101784-05	Rev
				3	EMO & K4B ALERT WIRE COLOR CHANGES	07/10/15	S BARBER	DRAWN	S BARBER	06/01/2015	4
				2	SW4 & SW5 DRAWN AS WIRED	07/02/15	S BARBER	CHECKED	S BARBER	06/01/2015	
				1	K2, K4x, K5 & K6 PINOUT CHANGED	06/17/15	S BARBER	ISSUED	J CLARK	07/07/2015	

LCI Furnaces

DIVISION OF LOCHABER CORNWALL, INC.

675 NORTH ECKHOFF STREET, BLDG D, ORANGE, CA 92668 USA

CONTROL ENCLOSURE ANALOG

15-003

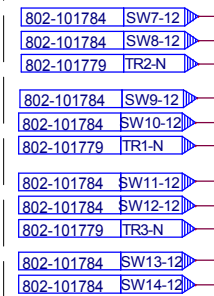
802-101784-05

4

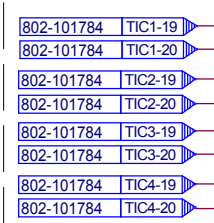
Thursday, July 16, 2015

Sheet 1 of 1

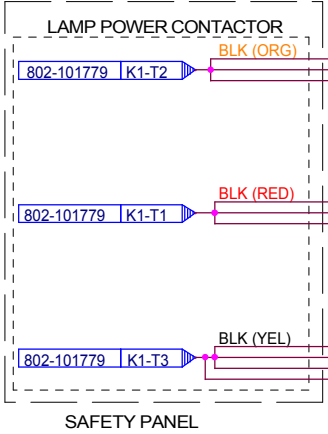
ZONE SWITCH POWER CONNECTIONS



ZONE CONTROL SIGNAL CONNECTIONS



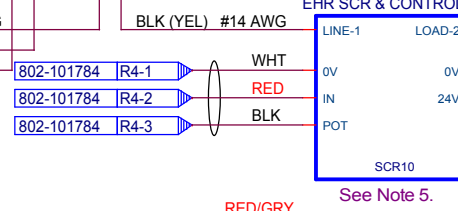
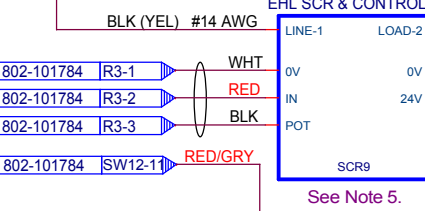
CONTROL ENCLOSURE



- NOTES**
1. SINGLE WIRES #18 AWG, EXCEPT AS NOTED.
 2. WIRE COLOR CODE:
RED SOLID or STRIPE - 24 Vac CONTROL
BLUE SOLID or BLUE WITH WHITE or GRAY STRIPE - 24 Vac NEUTRAL (COMMON)
BROWN SOLID - 117 Vac POWER
BLUE WITH BLACK STRIPE - 117 Vac NEUTRAL (COMMON)
ALL 2- or 3-CONDUCTOR CABLE 24 V OR LESS
BLACK SOLID - LINE VOLTAGE (208-480 Vac)
BLK (RED BAND) - LEG 1
BLK (ORG BAND) - LEG 2
BLK (YEL BAND) - LEG 3
YELLOW WITH GREEN STRIPE - SAFETY (EARTH) GROUND
 3. SCR_x DIP SW: SET 3 & 4 "ON" (UP), OTHERS "OFF" (DN)
 4. ZONE SCR SPANS SET PER 802-101501
 5. EHL & EHR SCR SPANS SET FOR 1/2 VOLTAGE PER 802-101501

REV	DESCRIPTION	DATE	APPROVED

REV	DESCRIPTION	DATE	APPROVED



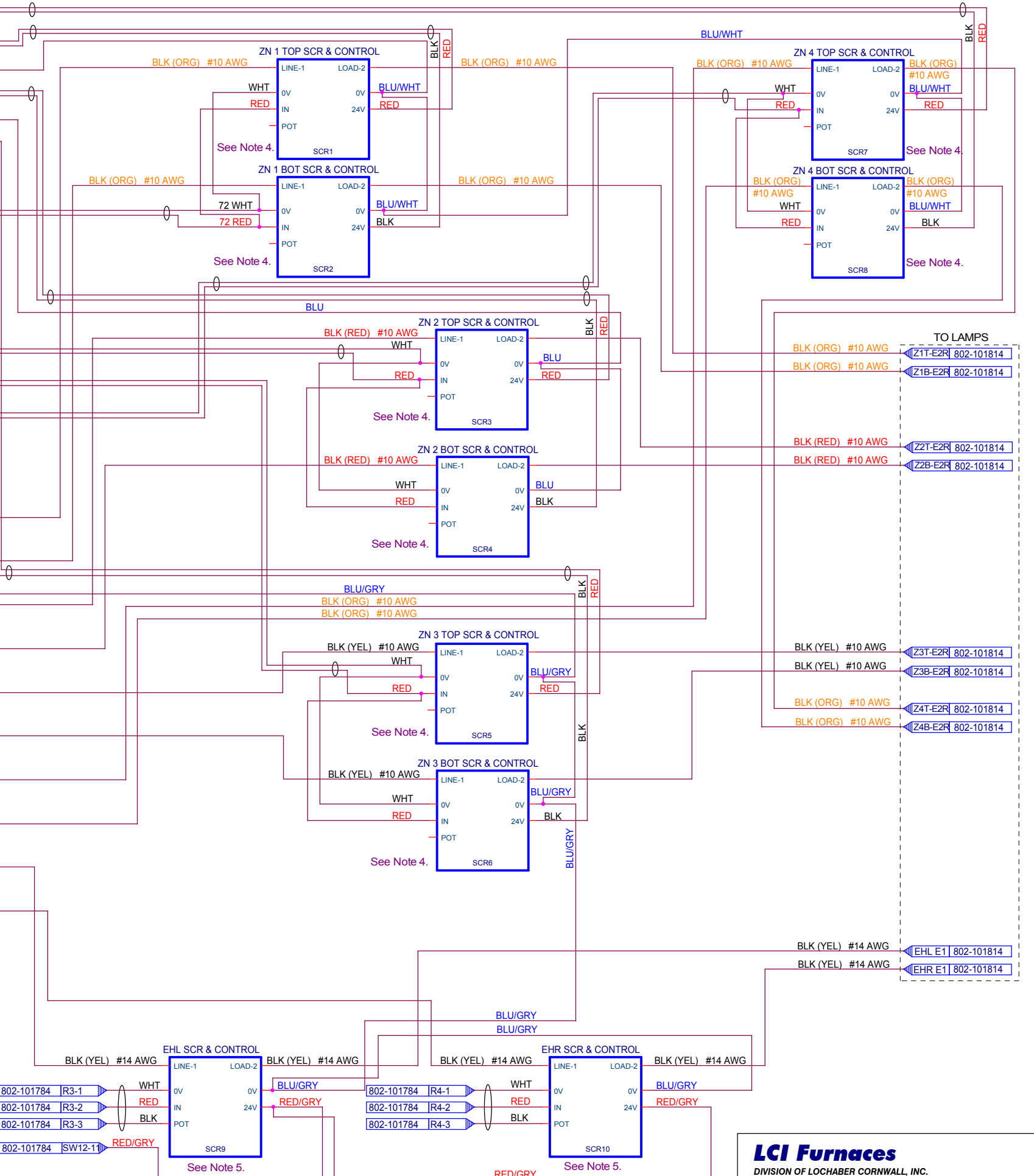
LCI Furnaces
DIVISION OF LOCHABER CORNWALL, INC.
675 NORTH ECKHOFF STREET, BLDG D, ORANGE, CA 92668 USA

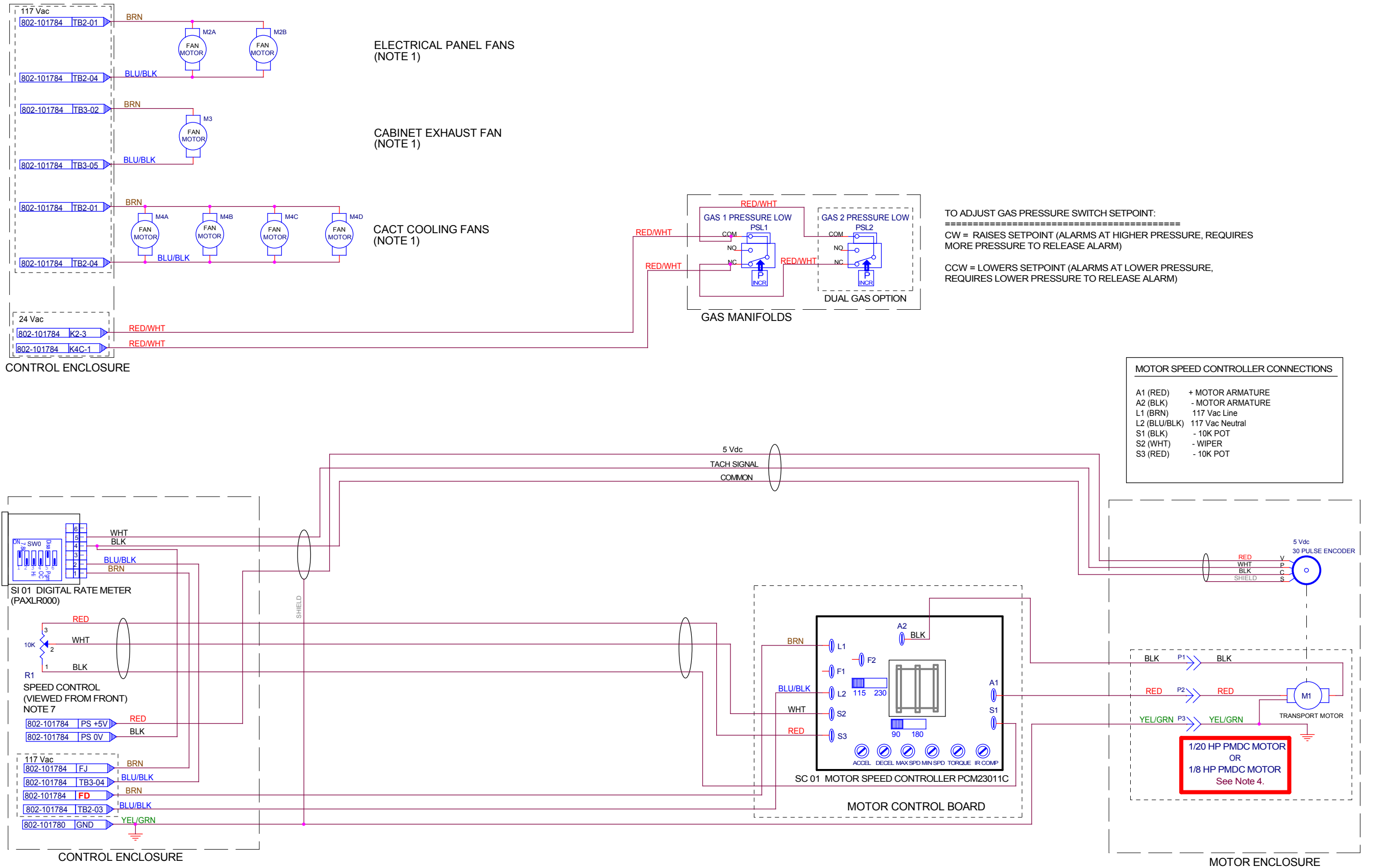
ALT ZONE CNTRL PANEL ANALOG

Size: **C** 15-003 | 802-101785-05 | Rev: **0**

Date: Monday, July 06, 2015 | Sheet: 1 of 1

APPROVALS	DATE
DRAWN S BARBER	06/03/2015
CHECKED S BARBER	06/03/2015
ISSUED J CLARK	07/07/2015

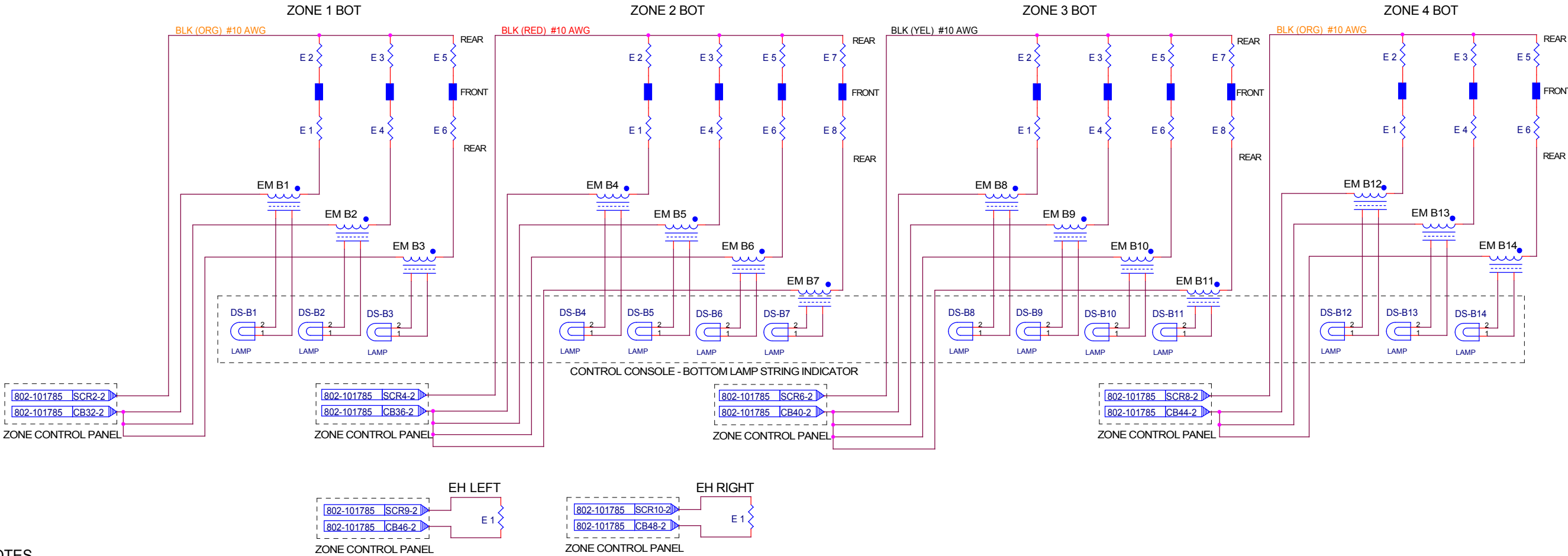
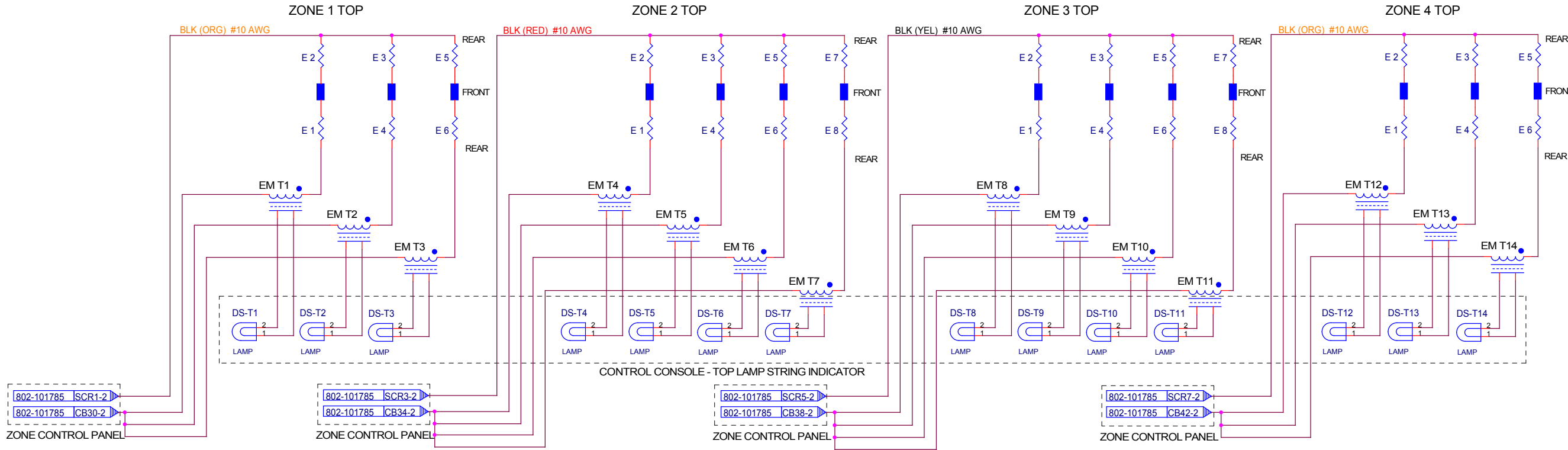




- NOTES:
1. NUMBER OF FANS MAY VARY.
 2. SUPPLIED WITH OPTIONAL EQUIPMENT.
 3. REVERSE A1 AND A2 FOR PROPER MOTOR ROTATION.
 4. **CHANGE FUSE FD: 1A FOR 1/20 HP MOTOR OR 3A FOR 1/8 HP MOTOR.**
- | USE | WITH MOTOR |
|-------------|--|
| FUSE FD: 1A | MINARIK/BISON MODEL 507-01-416 1/20 HP 0.9 RPM |
| FUSE FD: 3A | BISON MODEL 011-336-3062 1/8 HP 13 RPM |

5. ALL WIRES 18 AWG UNLESS OTHERWISE NOTED.
6. ALL MULTI-CONDUCTOR CABLE 22 AWG WIRES.
7. WIRE R1 FOR CW INCREASE IN MOTOR SPEED.

				4	ADDED TABLE TO NOTE 3	07/16/15	S BARBER	APPROVALS		DATE	Title			
				3	PRESSURE SWITCHES NOW IN PARALLEL	06/26/15	S BARBER	DRAWN	S BARBER	05/29/15	FRAME WIRING - ANALOG			
				2	CHANGED MOTOR SPEED CONTROLLER	06/18/15	S BARBER	CHECKED	S BARBER	05/29/15	Size	Document Number		
				1	OFF-PAGE CONNECTIONS TO K2, K4C CHANGED	06/17/15	S BARBER	ISSUED	J CLARK	07/07/15	C	15-003		
REV	DESCRIPTION	DATE	APPROVED	REV	DESCRIPTION	DATE	APPROVED	Date: Thursday, July 16, 2015					Sheet 1 of 1	Rev 4



NOTES

1. ALL WIRE #14 AWG EXCEPT AS NOTED.

REV	DESCRIPTION	DATE	APPROVED

REV	DESCRIPTION	DATE	APPROVED

MODEL	RTC CU-915
APPROVALS	DATE
DRAWN	S BARBER 06/03/2015
CHECKED	S BARBER 06/03/2015
ISSUED	J CLARK 07/07/2015

LCI Furnaces	
DIVISION OF LOCHABER CORNWALL, INC.	
675 NORTH ECKHOFF STREET, BLDG D, ORANGE, CA 92668 USA	
Title	ELEMENT WIRING CU-915
Size	Document Number
C 15-003	802-101814-08
Date: Thursday, June 04, 2015	Sheet 1 of 1

