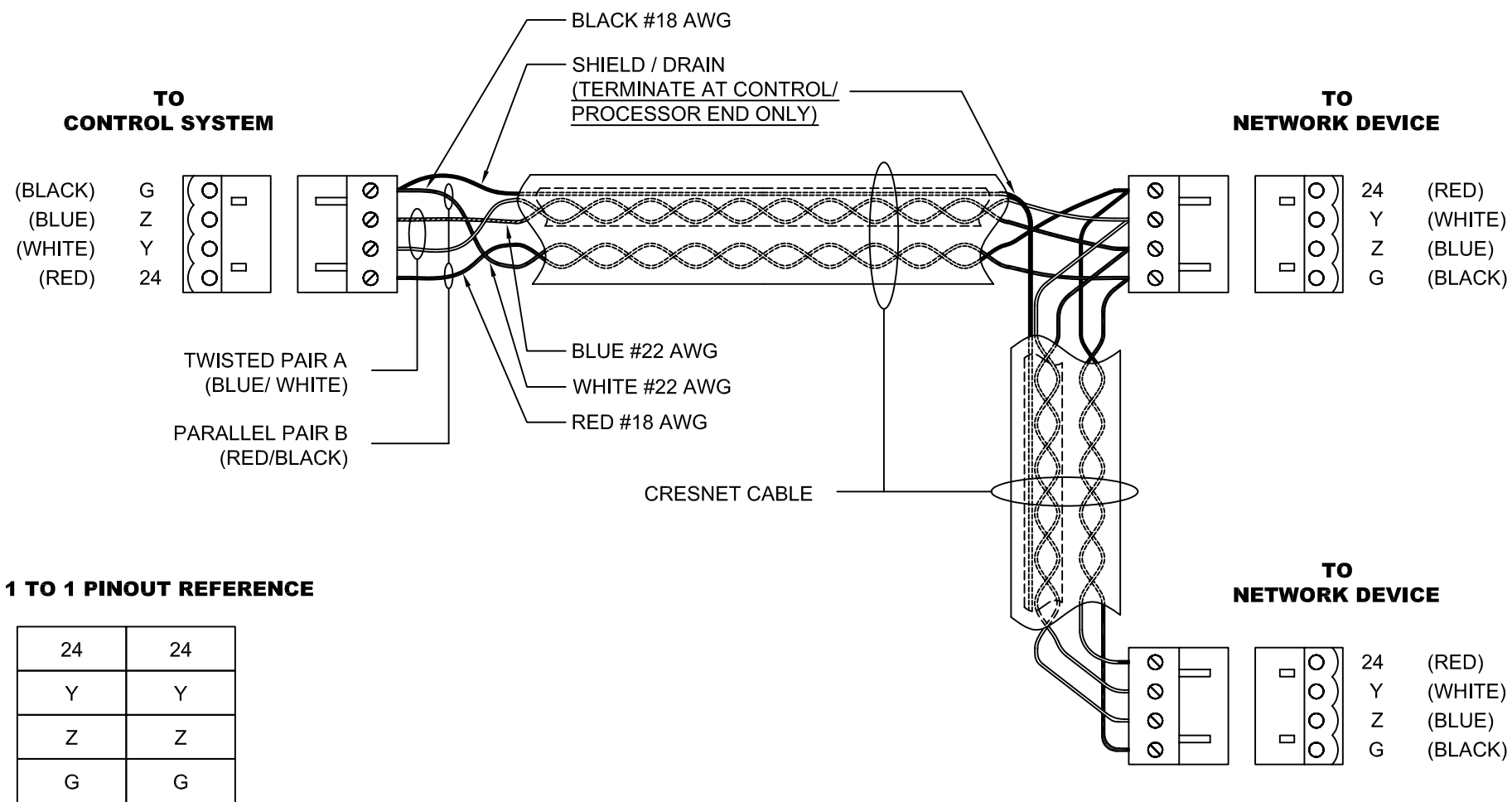


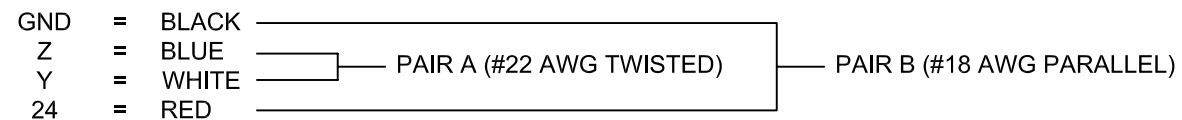
REVISIONS	DATE	BY
1	7/18/07	WCD



**1 TO 1 PINOUT REFERENCE**

24	24
Y	Y
Z	Z
G	G

**RECOMMENDED COLOR CODE - CRESNET CABLE**



**NOTES**

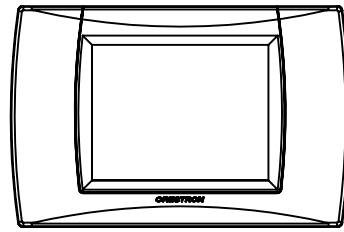
- DO NOT POWER UP SYSTEM UNTILL ALL WIRING IS VERIFIED. CARE SHOULD BE TAKEN TO ENSURE DATA (Y,Z) AND POWER (24,G) CONNECTIONS ARE NOT CROSSED.
- GROUND SHIELD AT CONTROL SYSTEM END ONLY.
- STRIP ONLY THE MINIMUM AMOUNT OF JACKETING FROM THE WIRES, AND INSULATE AND EXPOSED CONDUCTORS/ DRAIN WIRES WITH HEAT SHRINK TUBING.
- GENUINE CRESNET CABLE IS RECOMMENDED FOR CONNECTION OF CRESTRON COMMERCIAL LIGHTING SYSTEMS.
- MODEL CNTBLOCK NETWORK DISTRIBUTION/ TERMINAL BLOCKS ARE RECOMMENDED FOR TESTING PURPOSES AND CONVENIENCE OF WIRING.
- WHEN DAISY CHAINING NETWORK UNITS, ALWAYS TWIST THE ENDS OF THE INCOMING WIRE AND THE OUTGOING WIRE THAT SHARE A PIN ON THE NETWORK CONNECTOR. APPLY SOLDER ONLY TO THE ENDS OF THE TWISTED WIRES.

**CAUTION: POSSIBLE EQUIPMENT DAMAGE IF MISWIRED**

PROJECT: STANDARD DRAWINGS  
 LOCATION:  
 DISTRIBUTOR:  
 QUOTE : ORDER :  
 FILE NAME:

**CRESTRON**  
 15 Volvo Drive  
 Rockleigh NJ 07647  
 Tel: 888-273-7876  
 Fax: 201-767-6011  
 www.crestron.com

DRAWING TITLE:  
**CRESNET WIRING DETAIL**

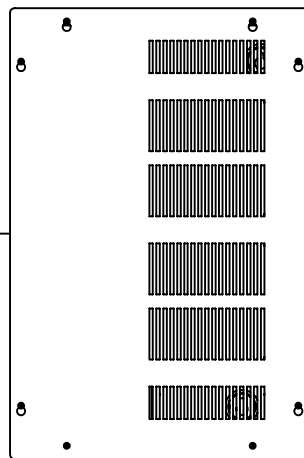


**ROOM COMBINE STATION**  
CRESTRON #TPS4L TOUCH PANEL

MAX (8) 0-10VDC ANALOG INPUTS OR CONTACT CLOSURES TO CONTROL SYSTEM FROM PHOTOCELLS OR OCCUPANCY SENSORS

ETHERNET CONNECTION (TCP/IP) FOR ECONTROL (BROWSER CONNECTION), PATHPORT (DMX), OR CRESTRON AV SYSTEM INTEGRATION

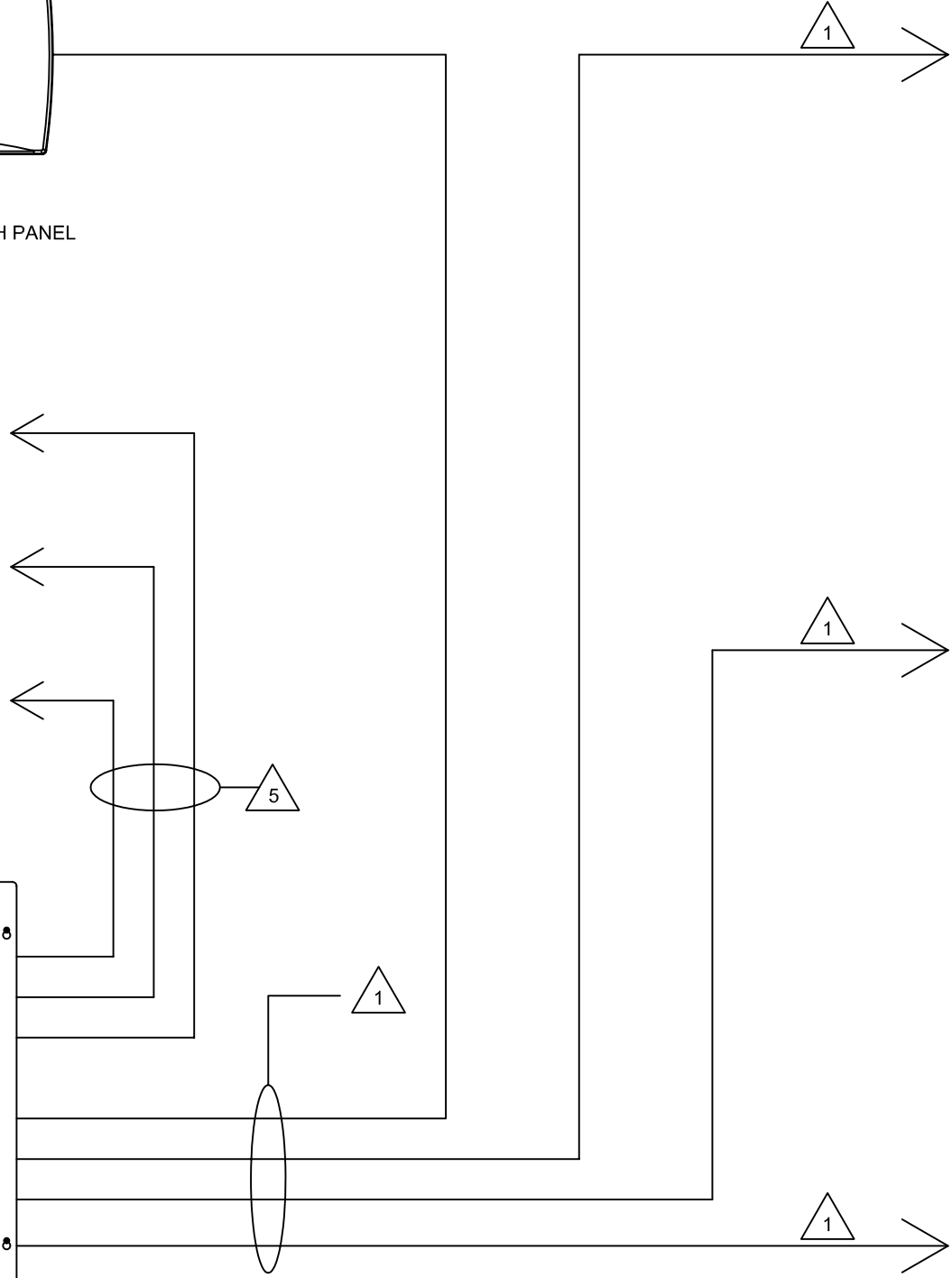
SERIAL (RS232) CONNECTION TO OTHER SYSTEMS INCLUDING: DALI INTERFACE, LED CONTROL (COLOR KINETICS), AND VARIOUS BMS.



**LIGHTING CONTROL SYSTEM PROCESSOR**  
(24.25"H X 16.10"W X 5.82"D)  
INCLUDING:  
(1) #CAEN-2X1 ENCLOSURE  
(1) #CAEN-CK-2X1 COVER EXTENSION KIT  
(1) #PAC2 OR PAC2M PROCESSOR WITH POWER SUPPLY (AS APPROPRIATE).  
INCLUDE NECESSARY ACCESSORIES & TERMINAL BLOCKS.

DEDICATED 2-WIRE + GND 120VAC 20 AMP FEED (PROCESSOR POWER).

IT IS RECOMMENDED THAT THIS FEED BE PROTECTED VIA UPS (BY OTHERS).



TO ROOM "A" LIGHTING CONTROL SYSTEM. CONNECT TO "CONTROL SYSTEM" PORT ON ILUX INTEGRATED LIGHTING CONTROLLER.

TO ROOM "B" LIGHTING CONTROL SYSTEM. CONNECT TO "CONTROL SYSTEM" PORT ON ILUX INTEGRATED LIGHTING CONTROLLER.

TO ROOM "C" LIGHTING CONTROL SYSTEM. CONNECT TO "CONTROL SYSTEM" PORT ON ILUX INTEGRATED LIGHTING CONTROLLER.

**NOTES:**

- 1 "CRESNET" CABLE:  
(1) PAIR #18AWG,  
(1) TWISTED PAIR 22AWG W/SHIELD (BY E.C.)
- 2 POWER EXTENDER TO BE MOUNTED IN A 4" X 4" SQUARE BOX (BY E.C.)
- 3 TPS-4L TO BE MOUNTED VIA CRESTRON #BB-4L WALL MOUNT BACK BOX
- 4 CLS-C6 TO BE MOUNTED IN A 4-GANG 3.5" DEEP BOX (BY E.C.)
- 5 APPLICATION SPECIFIC WIRING AS PER MANUFACTURERS RECOMMENDATIONS.

**CONTROL STATION DETAILS:**

TPS-4L TOUCH PANEL TO BE PROGRAMMED AS FOLLOWS:

1. PARTITION CONTROL TO COMBINE AND UNCOMBINE ZONES IN THE THREE (3) SECTIONS AS DESIRED.
2. MASTER STATION FOR THE LIGHTING CONTROL SYSTEM TO ALLOW FOR ADJUSTMENT, RECORDING, AND RECALL OF LIGHTING SCENES.

MASTER STATION SHALL BE ABLE TO DEFINE THE FOLLOWING:

1. THE LEVEL OR STATE OF EACH DIMMED OR SWITCHED CIRCUIT IN THE SYSTEM.
2. THE FADE TIME FOR EACH LIGHTING PRESET.
3. THE LEVEL OR STATE OF EACH DIMMED OR SWITCHED CIRCUIT IN EACH PRESET.

RECORDING AND EDITING FUNCTIONS SHALL BE PASSWORD PROTECTED.

**TPS-4L HARD BUTTONS TO BE PROGRAMMED & ENGRAVED AS FOLLOWS:**

- BUTTON 1 - "SECTION A"
- BUTTON 2 - "SECTION B"
- BUTTON 3 - "SECTION C"
- BUTTON 4 - "COMBINE"
- BUTTON 5 - "UNCOMBINE"

- BUTTON 6 - "HOME"
- BUTTON 7 - "PRESET 1"
- BUTTON 8 - "PRESET 2"
- BUTTON 9 - "ON"
- BUTTON 10 - "OFF"

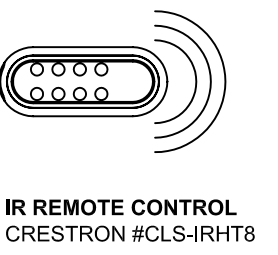
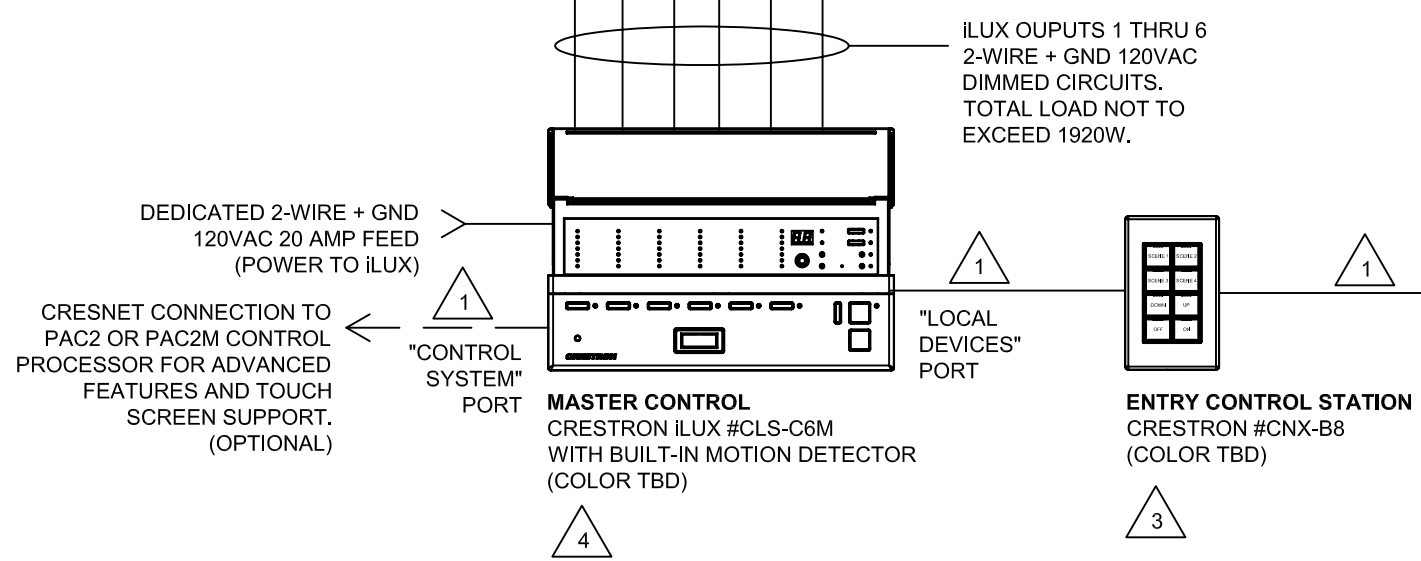
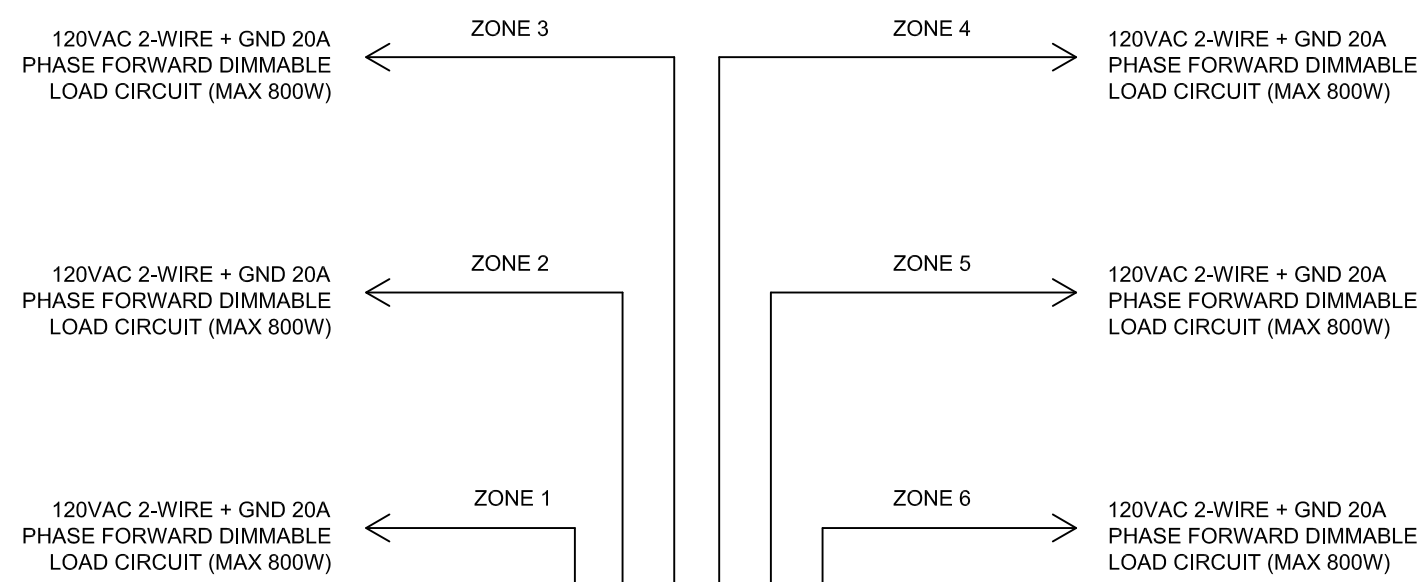
REVISIONS	DATE	BY
1	6/13/07	WGD
2	6/13/07	WGD

PROJECT: ILUX INTEGRATED LIGHTING CNTRL	LOCATION:	DISTRIBUTOR:	QUOTE:	ORDER:
FILE NAME:				

**CRESTRON**  
15 Volvo Drive  
Rockleigh NJ 07647  
Tel: 888-273-7876  
Fax: 201-767-6011  
www.crestron.com

DRAWING TITLE:  
**MULTI ROOM APPLICATION**

THIS DRAWING MAY NOT BE USED TO PLACE AN ACTUAL ORDER WITH CRESTRON ELECTRONICS.  
Please contact Crestron Tech Sales (TechSales@Crestron.com) with job specific information for a corresponding quote with a Bill of Materials.



THIS DRAWING MAY NOT BE USED TO PLACE AN ACTUAL ORDER WITH CRESTRON ELECTRONICS. Please contact Crestron Tech Sales (TechSales@Crestron.com) with job specific information for a corresponding quote with a Bill of Materials.

**NOTES:**

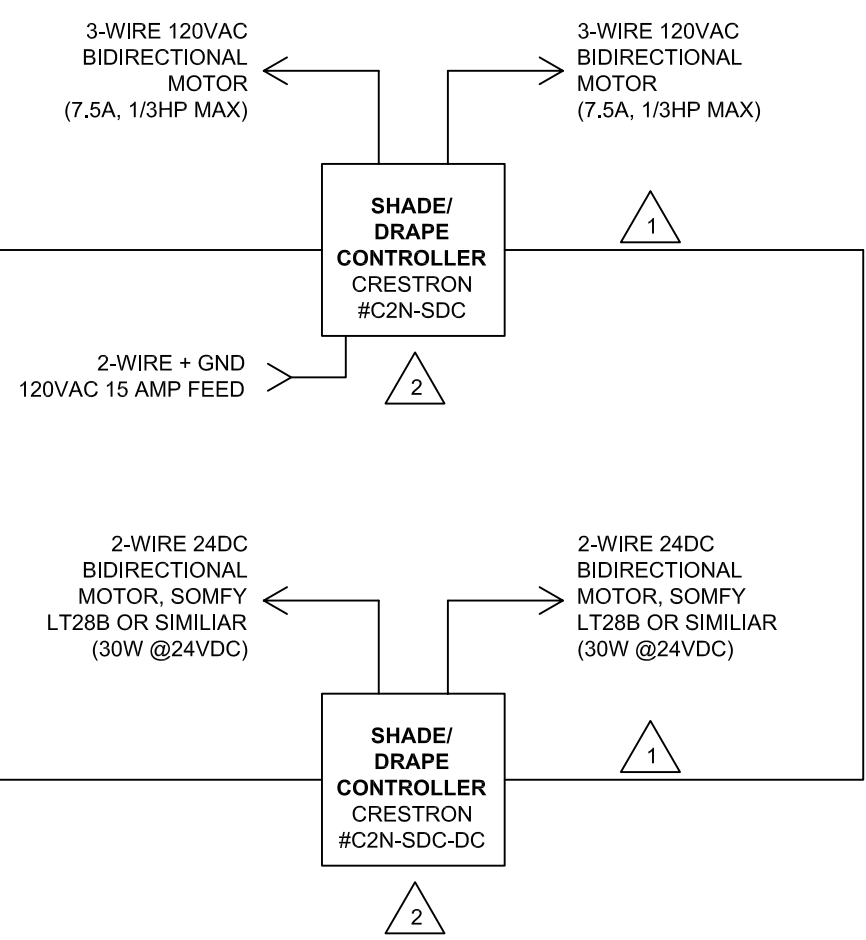
- 1 "CRESNET" CABLE:  
(1) PAIR #18AWG,  
(1) TWISTED PAIR 22AWG  
W/SHIELD (BY E.C.)
- 2 DEVICE  
TO BE MOUNTED IN A  
4" X 4" SQUARE BOX  
(BY E.C.)
- 3 CNX STATIONS TO BE  
TO BE MOUNTED IN A  
1-GANG 2.5" DEEP BOX  
(BY E.C.)
- 4 CLS-C6 TO BE MOUNTED  
IN A 4-GANG 3.5" DEEP BOX  
(BY E.C.)

**EQUIPMENT DETAILS:**

iLUX CLS-C6 PROVIDED WITH INTEGRATED IR PORT

iLUX CLS-C6 LOAD TYPES  
- INCANDESCENT  
- NON-DIM  
- MAGNETIC LOW VOLTAGE  
- NEON/ COLD CATHODE  
- 2-WIRE FLOURESCENT

iLUX CLS-C6 LOAD RATING (W/O POWER EXTENDERS):  
- 6 ZONES  
- 800 WATTS/ ZONE  
- 1920 WATTS TOTAL



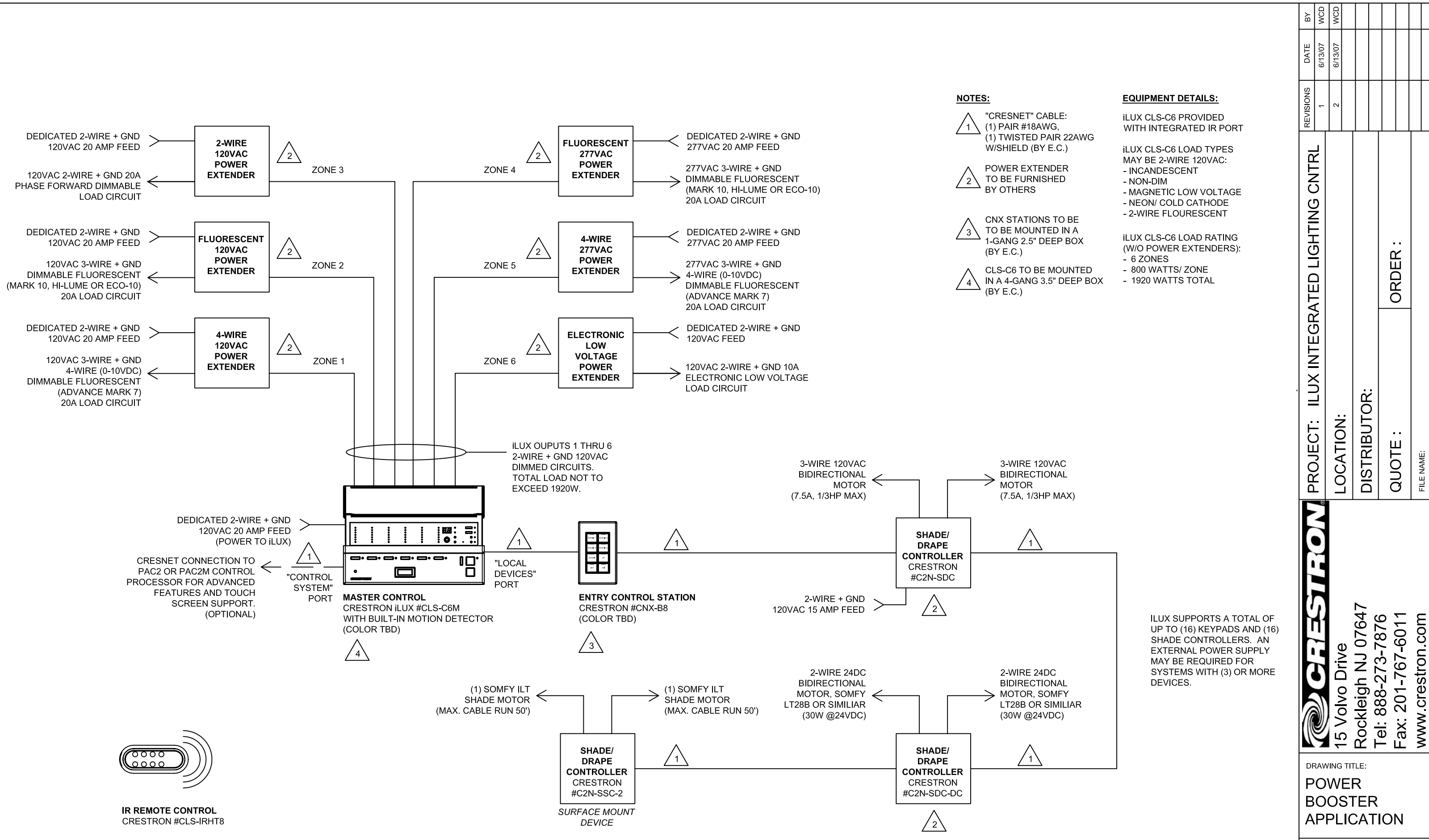
iLUX SUPPORTS A TOTAL OF UP TO (16) KEYPADS AND (16) SHADE CONTROLLERS. AN EXTERNAL POWER SUPPLY MAY BE REQUIRED FOR SYSTEMS WITH (3) OR MORE DEVICES.

REVISIONS	DATE	BY
1	6/13/07	WCD
2	6/13/07	WCD

PROJECT: ILUX INTEGRATED LIGHTING CNTRL	LOCATION:	DISTRIBUTOR:	QUOTE:	ORDER:
FILE NAME:				

**CRESTRON**  
 15 Volvo Drive  
 Rockleigh NJ 07647  
 Tel: 888-273-7876  
 Fax: 201-767-6011  
 www.crestron.com

DRAWING TITLE:  
**2-WIRE 120V CIRCUIT APPLICATION**



- NOTES:**
- 1 "CRESNET" CABLE:  
(1) PAIR #18AWG,  
(1) TWISTED PAIR 22AWG  
W/SHIELD (BY E.C.)
  - 2 POWER EXTENDER  
TO BE FURNISHED  
BY OTHERS
  - 3 CNX STATIONS TO BE  
TO BE MOUNTED IN A  
1-GANG 2.5" DEEP BOX  
(BY E.C.)
  - 4 CLS-C6 TO BE MOUNTED  
IN A 4-GANG 3.5" DEEP BOX  
(BY E.C.)

- EQUIPMENT DETAILS:**
- ILUX CLS-C6 PROVIDED  
WITH INTEGRATED IR PORT
- ILUX CLS-C6 LOAD TYPES  
MAY BE 2-WIRE 120VAC:  
- INCANDESCENT  
- NON-DIM  
- MAGNETIC LOW VOLTAGE  
- NEON/ COLD CATHODE  
- 2-WIRE FLOURESCENT
- ILUX CLS-C6 LOAD RATING  
(W/O POWER EXTENDERS):  
- 6 ZONES  
- 800 WATTS/ ZONE  
- 1920 WATTS TOTAL

ILUX SUPPORTS A TOTAL OF  
UP TO (16) KEYPADS AND (16)  
SHADE CONTROLLERS. AN  
EXTERNAL POWER SUPPLY  
MAY BE REQUIRED FOR  
SYSTEMS WITH (3) OR MORE  
DEVICES.

REVISIONS	DATE	BY
1	6/13/07	WCD
2	6/13/07	WCD

PROJECT: ILUX INTEGRATED LIGHTING CNTRL	LOCATION:	DISTRIBUTOR:	QUOTE:	ORDER:
FILE NAME:				

**CRESTRON**  
 15 Volvo Drive  
 Rockleigh NJ 07647  
 Tel: 888-273-7876  
 Fax: 201-767-6011  
 www.crestron.com

DRAWING TITLE:  
**POWER BOOSTER APPLICATION**

THIS DRAWING MAY NOT BE USED TO PLACE AN ACTUAL ORDER WITH CRESTRON ELECTRONICS.  
 Please contact Crestron Tech Sales (TechSales@Crestron.com) with job specific information for a corresponding  
 quote with a Bill of Materials.

REVISIONS	DATE	BY
1	6/13/07	WCD

PROJECT: TYPICAL APPLICATIONS
LOCATION: PA
DISTRIBUTOR:
QUOTE:
ORDER:
FILE NAME:

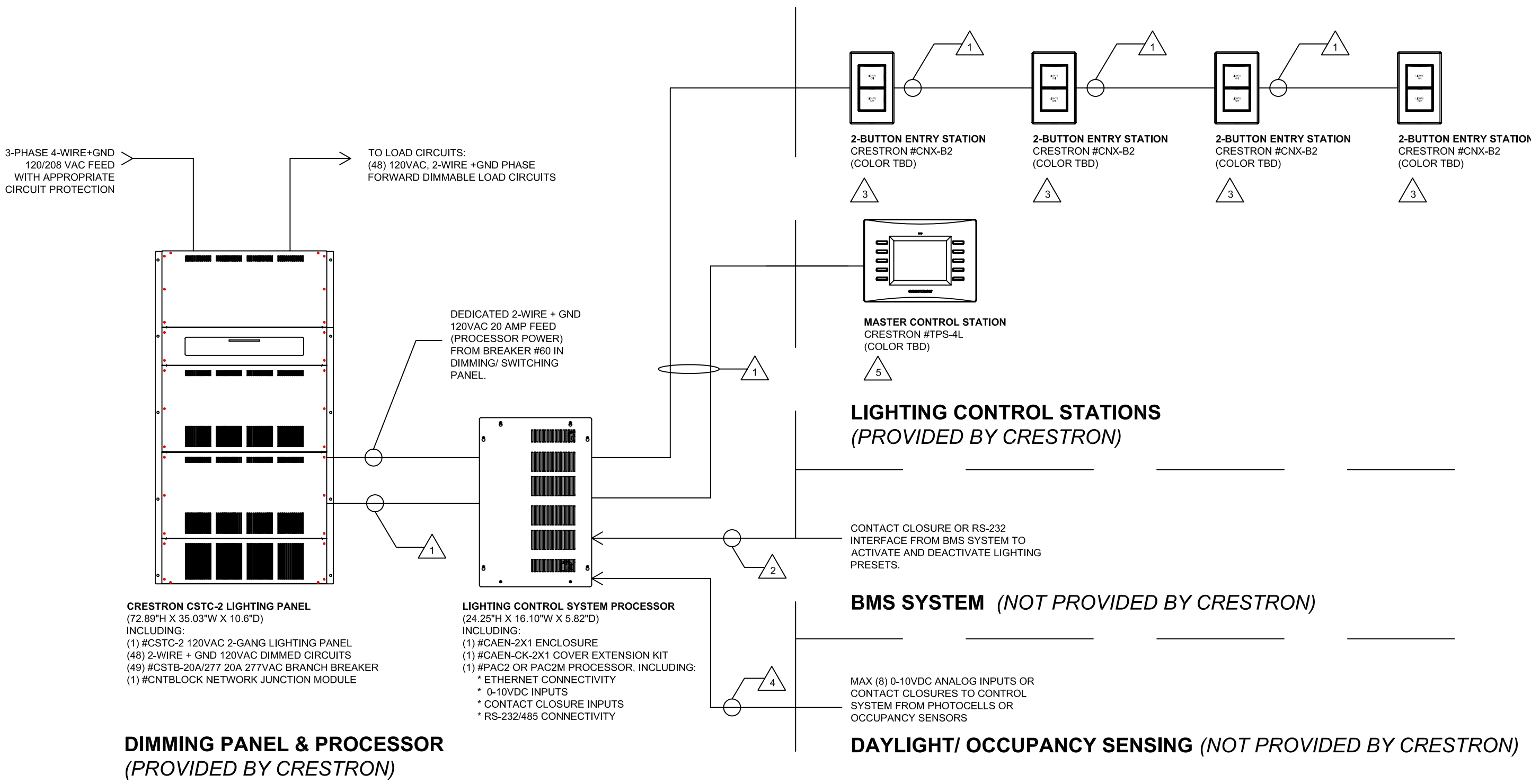


15 Volvo Drive  
Rockleigh NJ 07647  
Tel: 888-273-7876  
Fax: 201-767-6011  
www.crestron.com

DRAWING TITLE:  
**SANCTUARY LIGHTING CNTRL RISER**

1 OF 1

DRAWING DATE: 06/13/07



- NOTES:**
- 1 "CRESNET" CABLE:  
(1) PAIR #18AWG,  
(1) TWISTED PAIR 22AWG W/SHIELD (BY E.C.)
  - 2 CONTACT CLOSURE OR RS-232/485 WIRING FROM BMS TO CRESTRON PROCESSOR (BY E.C.)
  - 3 CNX-B2 TO BE MOUNTED IN A 1-GANG 2.5" DEEP BOX (BY E.C.)

- 4 0-10VDC/ CONTACT CLOSURE CONTROL WIRING FROM PHOTOSENSORS OR OCCUPANCY SENSORS TO CRESTRON CONTROL SYSTEM. (BY E.C.)
- 5 TPS-4L TO BE MOUNTED VIA CRESTRON #BB-4L WALL MOUNT BACK BOX

**CONTROL STATION DETAILS:**

TPS-4L TOUCH PANEL TO BE PROGRAMMED AS A MASTER STATION FOR THE LIGHTING CONTROL SYSTEM TO ALLOW FOR ADJUSTMENT, RECORDING, AND RECALL OF LIGHTING SCENES.

MASTER STATION SHALL BE ABLE TO DEFINE THE FOLLOWING:  
 1. THE LEVEL OR STATE OF EACH DIMMED OR SWITCHED CIRCUIT IN THE SYSTEM.  
 2. THE FADE TIME FOR EACH LIGHTING PRESET.  
 3. THE LEVEL OR STATE OF EACH DIMMED OR SWITCHED CIRCUIT IN EACH PRESET.


RECORDING AND EDITING FUNCTIONS SHALL BE PASSWORD PROTECTED.

**TPS-4L HARD BUTTONS TO BE PROGRAMMED & ENGRAVED AS FOLLOWS:**

BUTTON 1 - "HOME"  
 BUTTON 2 - "SCENE 2"  
 BUTTON 3 - "SCENE 3"  
 BUTTON 4 - "SCENE 4"  
 BUTTON 5 - "SCENE 5"

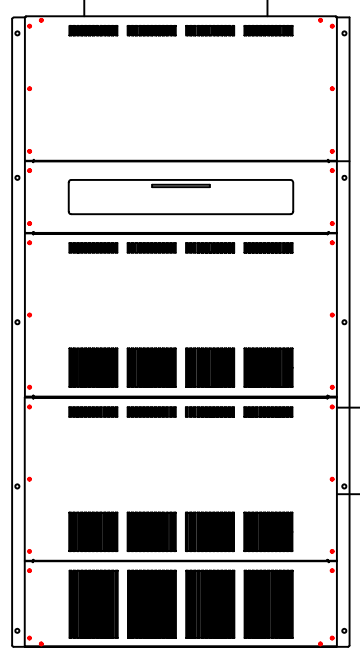
BUTTON 6 - "RECORD"  
 BUTTON 7 - "RAISE"  
 BUTTON 8 - "LOWER"  
 BUTTON 9 - "ON"  
 BUTTON 10 - "OFF"

**CNX-B2 BUTTONS TO BE ENGRAVED AS FOLLOWS:**  
 BUTTON 1 - "ON"  
 BUTTON 2 - "OFF"

 **FOR INFORMATIONAL USE ONLY. NOT FOR CONSTRUCTION.**

3-PHASE 4-WIRE+GND  
120/208 VAC FEED  
WITH APPROPRIATE  
CIRCUIT PROTECTION

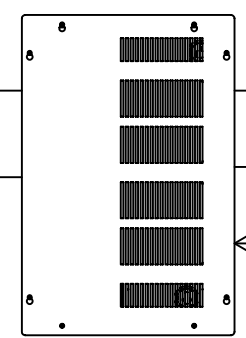
TO LOAD CIRCUITS:  
(6) 120VAC 2-WIRE DIMMED (FOH PERFORMANCE LIGHTING)  
(6) 120VAC 2-WIRE DIMMED (OVERSTAGE BORDER LIGHTS)  
(4) 120VAC 2-WIRE DIMMED (HOUSE LIGHTS)  
(4) 208VAC 2-WIRE/ 2-POLE SWITCHED (HID)



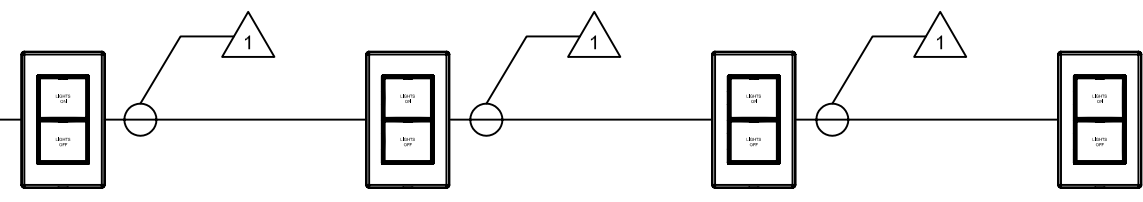
**CRESTRON CSTC-2 LIGHTING PANEL**  
(72.89"H X 35.03"W X 10.6"D)  
INCLUDING:  
(1) #CSTC-2 2-GANG LIGHTING PANEL  
(16) 2W+GND 120VAC DIMMED CIRCUITS  
(4) 2W+GND 208VAC SWITCHED CIRCUITS  
(1) 2W+GND 120VAC CONSTANT CIRCUIT (PROCESSOR)  
PROVIDE NECESSARY POWER SUPPLIES AND  
TERMINATION BLOCKS.

**DIMMING PANEL & PROCESSOR**  
(PROVIDED BY CRESTRON)

DEDICATED 2-WIRE + GND  
120VAC 20 AMP FEED  
(PROCESSOR POWER)  
FROM BREAKER #30 IN  
DIMMING/ SWITCHING  
PANEL.



**LIGHTING CONTROL SYSTEM PROCESSOR**  
(24.25"H X 16.10"W X 5.82"D)  
INCLUDING:  
CRESTRON #PAC-2 OR PAC2M PROCESSOR  
CRESTRON #CAEN 2X1 ENCLOSURE  
PROVIDE NECESSARY POWER SUPPLIES  
AND TERMINATION BLOCKS.

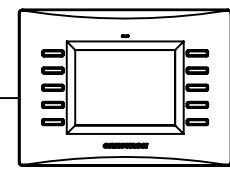


**2-BUTTON ENTRY STATION**  
CRESTRON #CNX-B2  
(COLOR TBD)

**2-BUTTON ENTRY STATION**  
CRESTRON #CNX-B2  
(COLOR TBD)

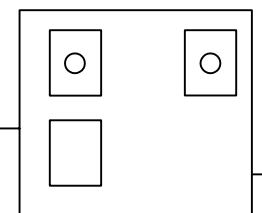
**2-BUTTON ENTRY STATION**  
CRESTRON #CNX-B2  
(COLOR TBD)

**2-BUTTON ENTRY STATION**  
CRESTRON #CNX-B2  
(COLOR TBD)



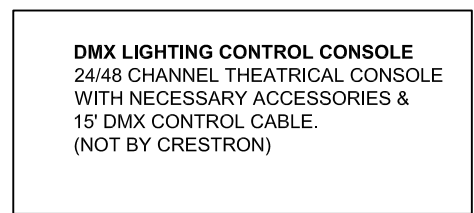
**MASTER CONTROL STATION**  
CRESTRON #TPS-4L  
(COLOR TBD)

**LIGHTING CONTROL STATIONS**  
(PROVIDED BY CRESTRON)



**DMX LIGHTING CONTROL INTERFACE**  
12 X 12 X 4" BOX WITH CUSTOM ASSY, CONTAINING:  
(1) PATHPORT #6101 SINGLE DMX IN NODE  
(1) 3COM #3CNPSE SINGLE PORT POWER INJECTOR  
(1) 15A 120VAC RECEPTACLE (INTERNAL)

120VAC 15AMP 2-WIRE  
FEED WITH APPROPRIATE  
CIRCUIT PROTECTION.



**DMX LIGHTING CONTROL CONSOLE**  
24/48 CHANNEL THEATRICAL CONSOLE  
WITH NECESSARY ACCESSORIES &  
15' DMX CONTROL CABLE.  
(NOT BY CRESTRON)

**DMX LIGHTING CONTROL CONSOLE**

- NOTES:**
- 1 "CRESNET" CABLE:  
(1) PAIR #18AWG,  
(1) TWISTED PAIR 22AWG  
W/SHIELD (BY E.C.)
  - 2 TPS-4L TO BE MOUNTED VIA  
CRESTRON #BB-4L  
WALL MOUNT BACK BOX
  - 3 CNX-B2 TO BE  
TO BE MOUNTED IN A  
1-GANG 2.5" DEEP BOX  
(BY E.C.)
  - 4 CAT-5 CABLE WITH RJ-45  
CONNECTORS TERMINATED  
AS "CROSSOVER" CABLE  
BETWEEN PROCESSOR  
AND NODE.  
(BY E.C.)

**CONTROL STATION DETAILS:**

TPS-4L TOUCH PANEL TO BE PROGRAMMED AS  
A MASTER STATION FOR THE LIGHTING  
CONTROL SYSTEM TO ALLOW FOR  
ADJUSTMENT, RECORDING, AND RECALL OF  
LIGHTING SCENES.

ADDITIONALLY, MASTER STATION SHALL BE  
ABLE TO COMBINE AND UNCOMBINE THE ZONES  
IN THE SECTIONS OF THE ROOM SEPARATED BY  
DIVIDER WALLS.

MASTER STATION SHALL BE ABLE TO DEFINE  
THE FOLLOWING:  
1. THE LEVEL OR STATE OF EACH DIMMED OR  
SWITCHED CIRCUIT IN THE SYSTEM.  
2. THE FADE TIME FOR EACH LIGHTING PRESET.  
3. THE LEVEL OR STATE OF EACH DIMMED OR  
SWITCHED CIRCUIT IN EACH PRESET.

RECORDING AND EDITING FUNCTIONS SHALL BE  
PASSWORD PROTECTED.

**TPS-4L HARD BUTTONS TO BE  
PROGRAMMED &  
ENGRAVED AS FOLLOWS:**

BUTTON 1 - "HOME"  
BUTTON 2 - "SCENE 2"  
BUTTON 3 - "SCENE 3"  
BUTTON 4 - "SCENE 4"  
BUTTON 5 - "SCENE 5"

BUTTON 6 - "RECORD"  
BUTTON 7 - "RAISE"  
BUTTON 8 - "LOWER"  
BUTTON 9 - "ON"  
BUTTON 10 - "OFF"

**CNX-B2 BUTTONS TO BE ENGRAVED  
AS FOLLOWS:**  
BUTTON 1 - "ON"  
BUTTON 2 - "OFF"

**FOR INFORMATIONAL USE ONLY.  
NOT FOR CONSTRUCTION.**

REVISIONS	DATE	BY
1	6/13/07	WCD
2	6/13/07	WCD

**PROJECT: TYPICAL APPLICATIONS**

**LOCATION:**

**DISTRIBUTOR:**

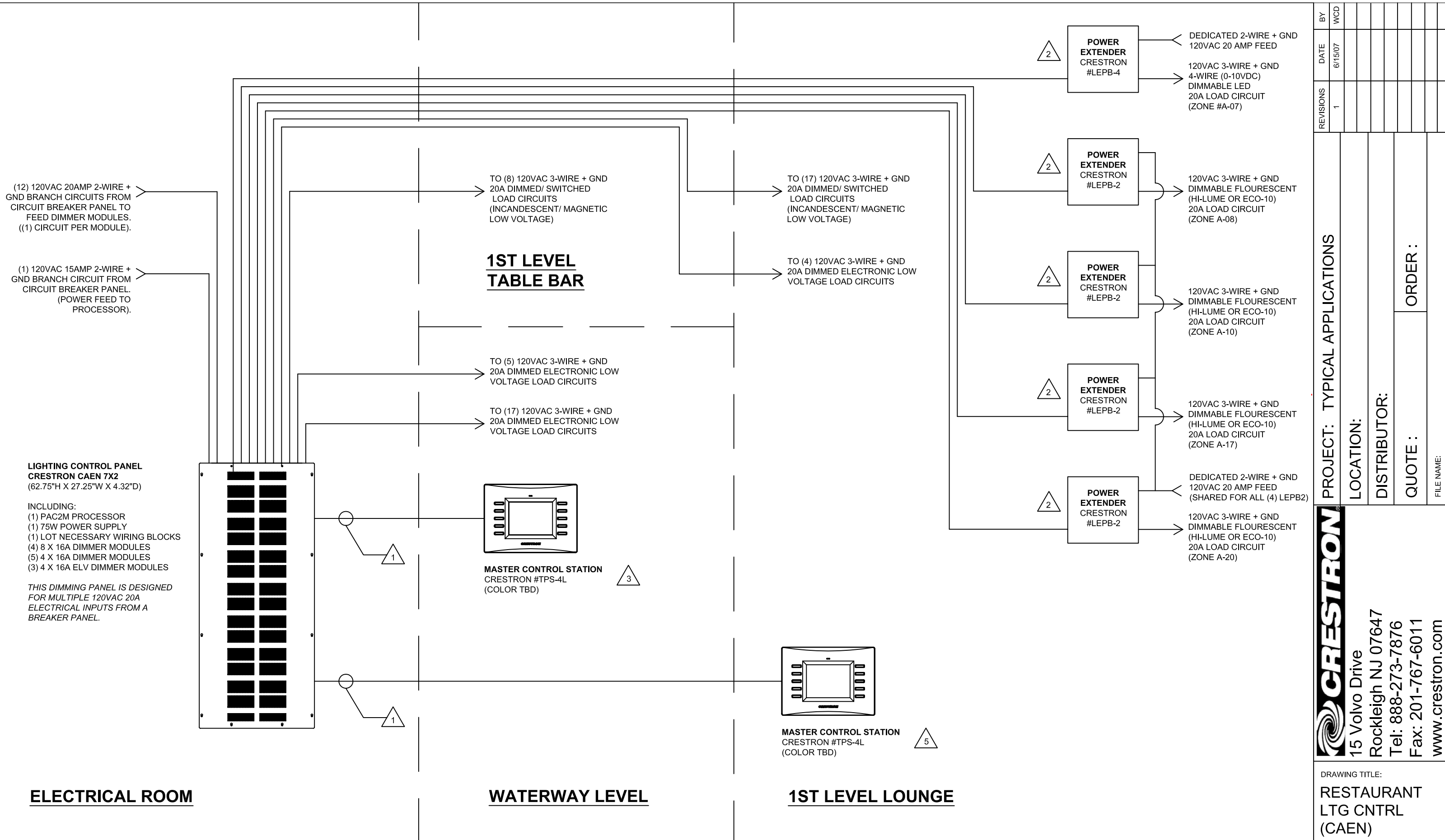
**QUOTE:**

**ORDER:**

FILE NAME:

15 Volvo Drive  
Rockleigh NJ 07647  
Tel: 888-273-7876  
Fax: 201-767-6011  
www.crestron.com

DRAWING TITLE:  
**AUDITORIUM  
LIGHTING CNTRL  
RISER**



(12) 120VAC 20AMP 2-WIRE + GND BRANCH CIRCUITS FROM CIRCUIT BREAKER PANEL TO FEED DIMMER MODULES. ((1) CIRCUIT PER MODULE).

(1) 120VAC 15AMP 2-WIRE + GND BRANCH CIRCUIT FROM CIRCUIT BREAKER PANEL. (POWER FEED TO PROCESSOR).

**LIGHTING CONTROL PANEL CRESTRON CAEN 7X2**  
(62.75"H X 27.25"W X 4.32"D)

INCLUDING:  
 (1) PAC2M PROCESSOR  
 (1) 75W POWER SUPPLY  
 (1) LOT NECESSARY WIRING BLOCKS  
 (4) 8 X 16A DIMMER MODULES  
 (5) 4 X 16A DIMMER MODULES  
 (3) 4 X 16A ELV DIMMER MODULES

THIS DIMMING PANEL IS DESIGNED FOR MULTIPLE 120VAC 20A ELECTRICAL INPUTS FROM A BREAKER PANEL.

TO (8) 120VAC 3-WIRE + GND 20A DIMMED/ SWITCHED LOAD CIRCUITS (INCANDESCENT/ MAGNETIC LOW VOLTAGE)

TO (17) 120VAC 3-WIRE + GND 20A DIMMED/ SWITCHED LOAD CIRCUITS (INCANDESCENT/ MAGNETIC LOW VOLTAGE)

TO (4) 120VAC 3-WIRE + GND 20A DIMMED ELECTRONIC LOW VOLTAGE LOAD CIRCUITS

TO (5) 120VAC 3-WIRE + GND 20A DIMMED ELECTRONIC LOW VOLTAGE LOAD CIRCUITS

TO (17) 120VAC 3-WIRE + GND 20A DIMMED ELECTRONIC LOW VOLTAGE LOAD CIRCUITS

2

2

2

2

2

1

3

1

5

REVISIONS	DATE	BY
1	6/15/07	WCD

PROJECT: TYPICAL APPLICATIONS
LOCATION:
DISTRIBUTOR:
QUOTE:
ORDER:
FILE NAME:

**CRESTRON**  
 15 Volvo Drive  
 Rockleigh NJ 07647  
 Tel: 888-273-7876  
 Fax: 201-767-6011  
 www.crestron.com

**ELECTRICAL ROOM**

**WATERWAY LEVEL**

**1ST LEVEL LOUNGE**

- NOTES:**
- 1 "CRESNET" CABLE:  
(1) PAIR #18AWG,  
(1) TWISTED PAIR 22AWG W/SHIELD (BY E.C.)
  - 2 POWER EXTENDER TO BE MOUNTED IN A 4" X 4" SQUARE BOX (BY E.C.)
  - 3 TPS-4L TO BE MOUNTED VIA CRESTRON #BB-4L WALL MOUNT BACK BOX

**FOR INFORMATIONAL USE ONLY.  
 NOT FOR CONSTRUCTION.**

DRAWING TITLE:  
**RESTAURANT  
 LTG CNTRL  
 (CAEN)**

1 OF 1

DRAWING DATE: 6/15/07

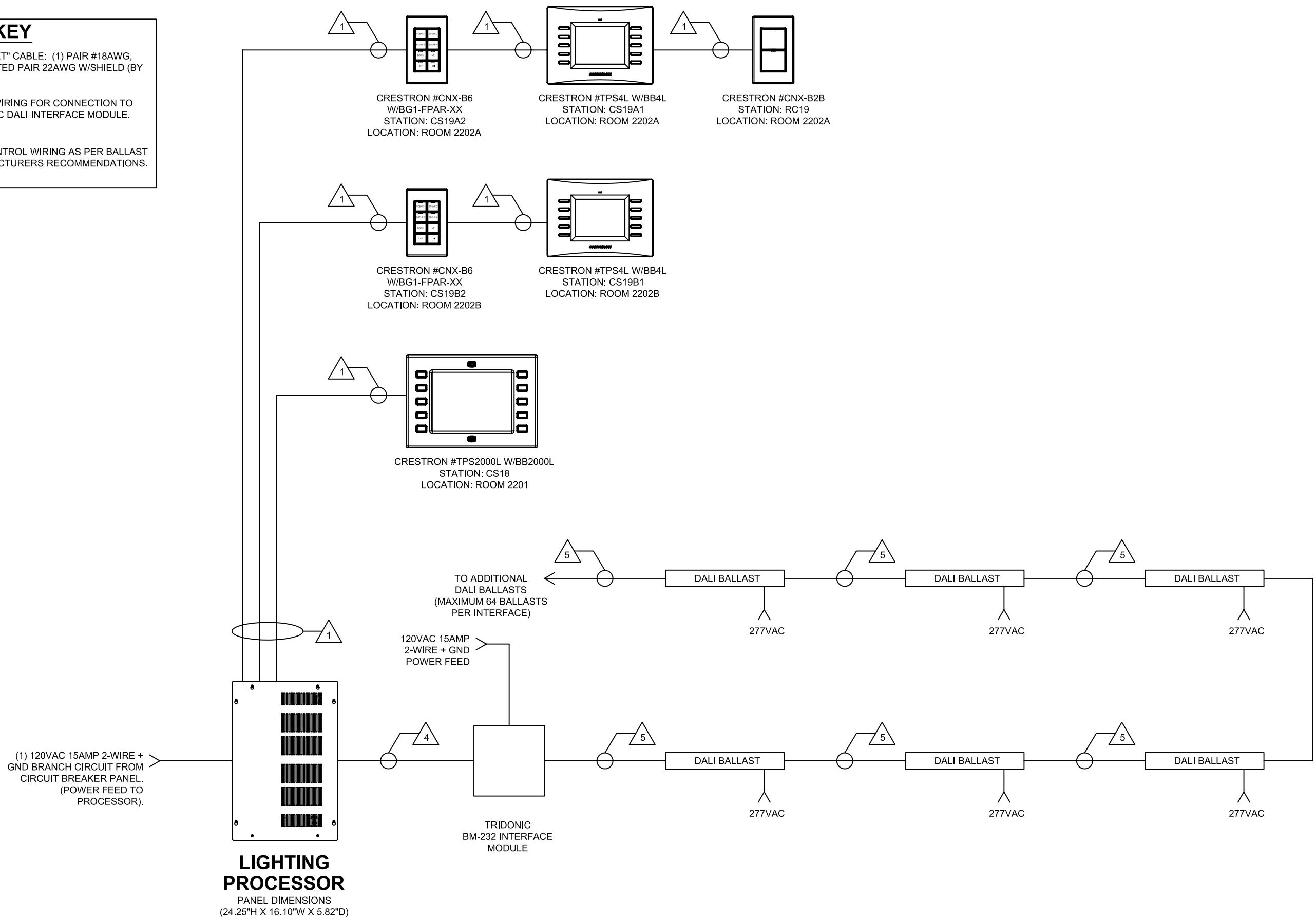


**NOTES KEY**

1 "CRESNET" CABLE: (1) PAIR #18AWG, (1) TWISTED PAIR 22AWG W/SHIELD (BY E.C.)

4 RS-232 WIRING FOR CONNECTION TO TRIDONIC DALI INTERFACE MODULE.

5 DALI CONTROL WIRING AS PER BALLAST MANUFACTURERS RECOMMENDATIONS.



REVISIONS	DATE	BY
1	8/25/07	

PROJECT: TYPICAL DALI RISER

LOCATION:

DISTRIBUTOR:

QUOTE: ORDER:

FILE NAME:

**CRESTRON**

15 Volvo Drive  
Rockleigh NJ 07647  
Tel: 888-273-7876  
Fax: 201-767-6011  
www.crestron.com

DRAWING TITLE:  
**LIGHTING CONTROL RISER**

1 OF 1

DRAWING DATE: 7/20/07