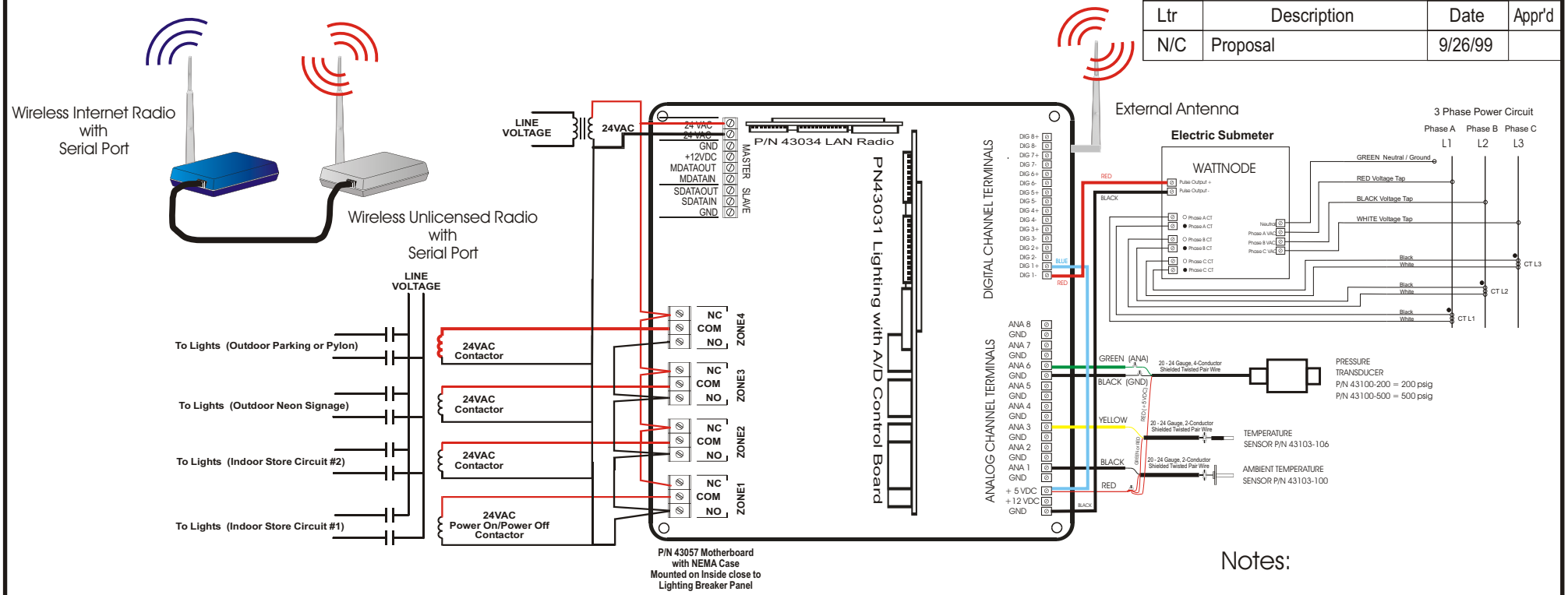
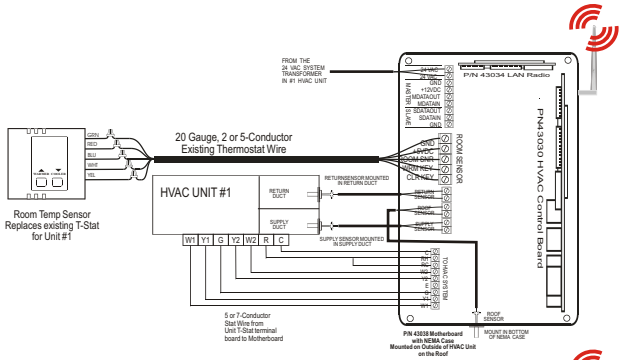
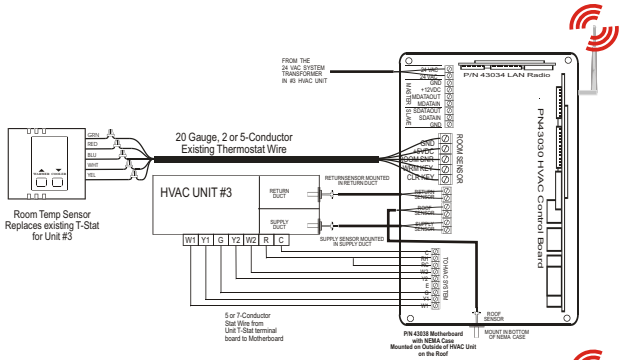
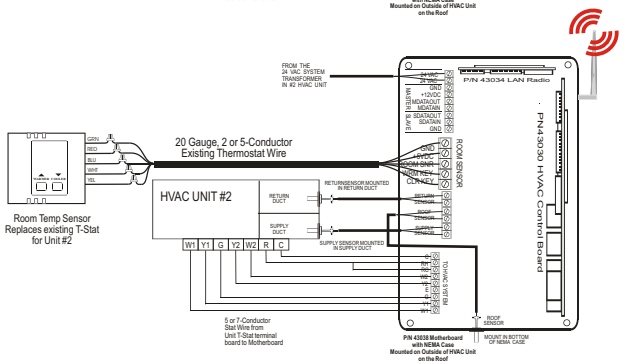
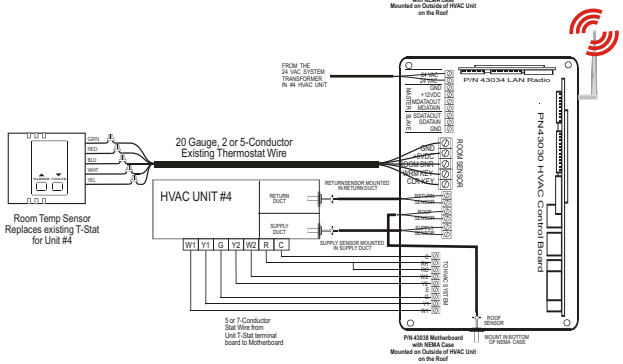
Revisions			
Ltr	Description	Date	Appr'd
N/C	Proposal	9/26/99	











Notes:

1. Shows One Lighting with Analog / Digital Monitoring and Four (4) HVAC Packaged Units in the system.
2. See Installation manual and EnergyPro User Guide for details.
3. Up to 128 Wireless Control Modules can be added.

WEC Approved

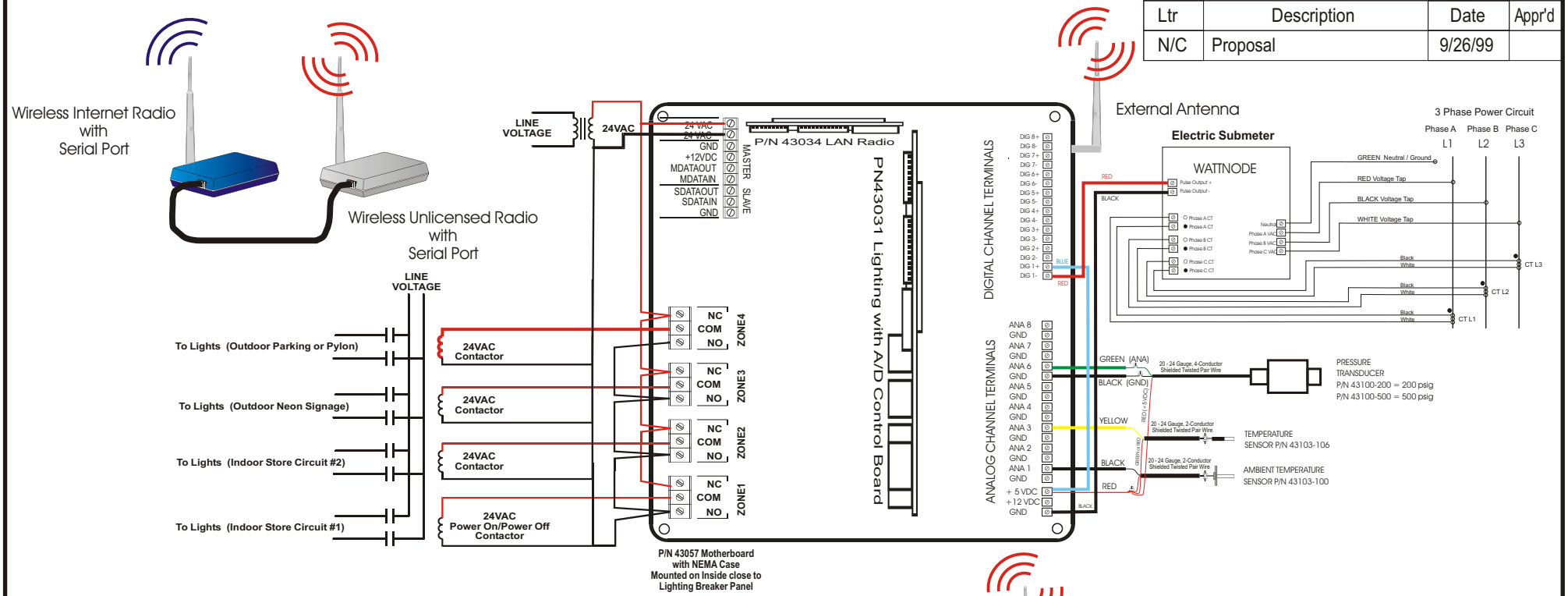
Project: L. Wood	Date: 9/26/99
Design	Date: 9/26/99
Check	Date
Draft	Date: 9/26/99
WEC Project Number: 12461	
Customer Identification Number	
Customer: Small Box Retail	

EMS2000 Proposed Installation Drawing Wireless System with W/O Master Control Unit

Winn Energy Controls, Inc.

Drawing Number	Scale	Revision
DWG-14200-100		

Revisions			
Ltr	Description	Date	Appr'd
N/C	Proposal	9/26/99	



Notes:

1. See Installation manual and EnergyPro User Guide for details.
2. Up to 128 EMS Control Modules in a Wireless Local Area Network. Any combination of Lighitng or HVAC or Zone Controllers.

WEC Approved

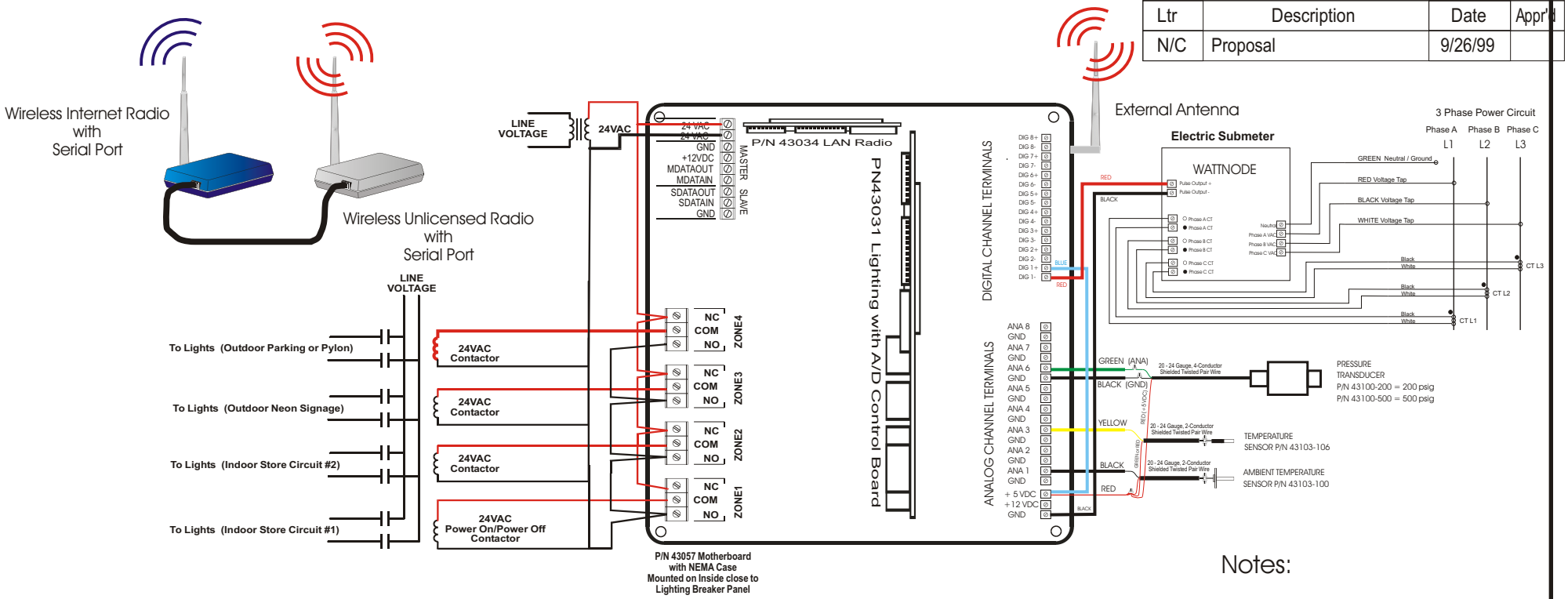
Project	L. Wood	Date 9/26/99
Design		Date 9/26/99
Check		Date
Draft		Date 9/26/99
WEC Project Number	12461	
Customer Identification Number		
Customer	Small Box Retail	

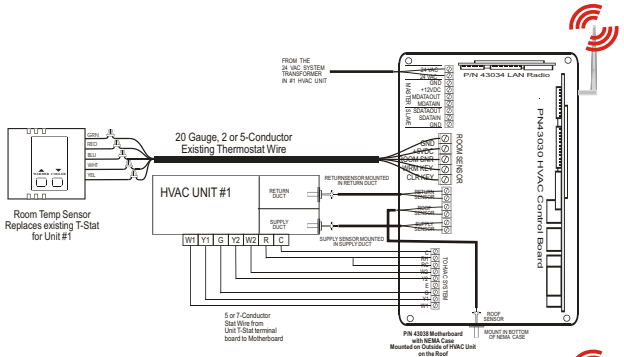
EMS2000 Proposed Installation Drawing Wireless System with W/O Master Control Unit

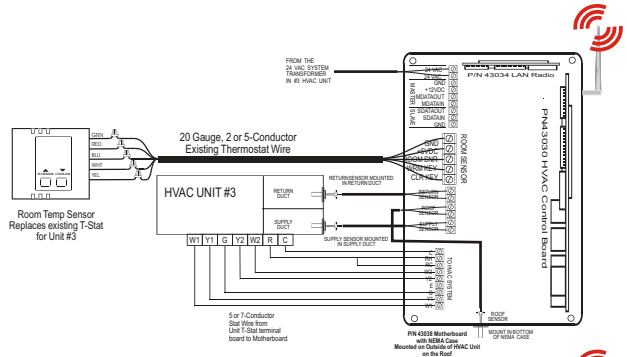
Winn Energy Controls, Inc.

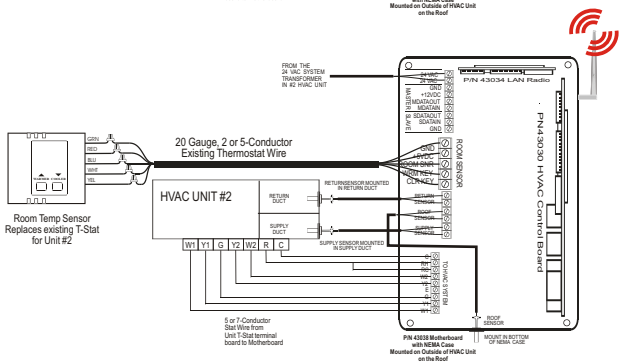
Drawing Number	Scale	Revision
DWG-14200-100		

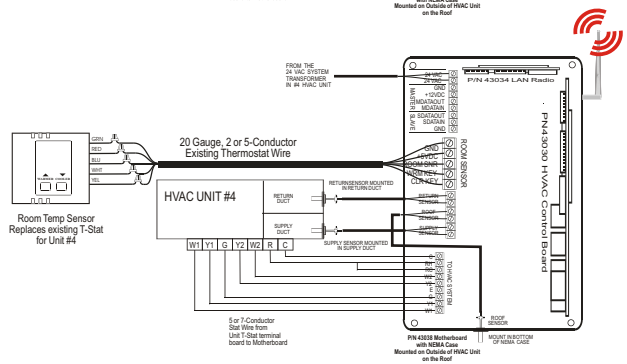
Revisions			
Ltr	Description	Date	Appr'd
N/C	Proposal	9/26/99	









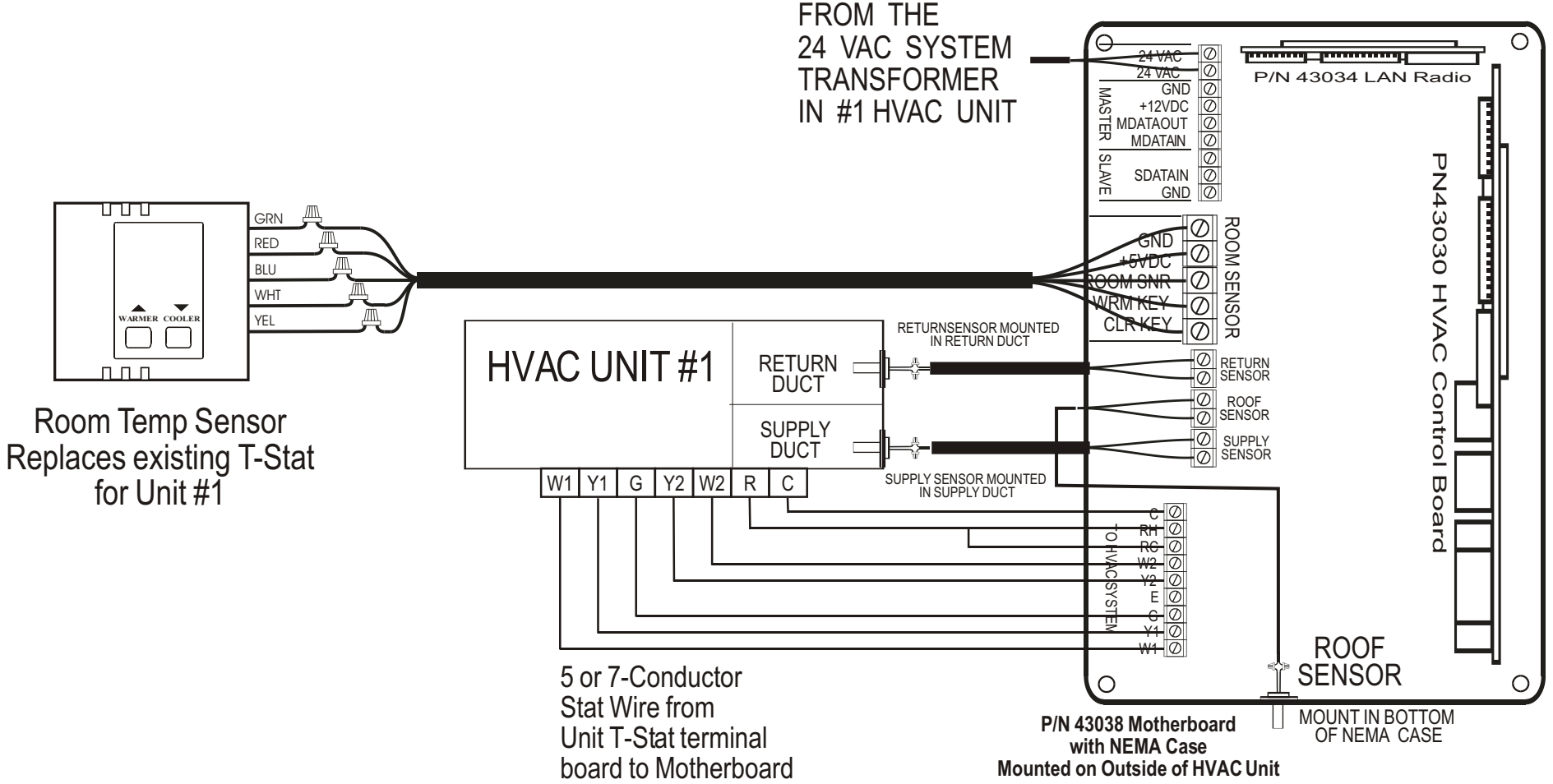


Notes:

1. Shows One Lighting with Analog / Digital Monitoring and Four (4) HVAC Packaged Units in the system.
2. See Installation manual and EnergyPro User Guide for details.
3. Up to 128 Wireless Control Modules can be added.

WEC Approved		This drawing and the information disclosed thereon are the property of Winn Energy Controls, Inc. The drawing and information are provided on a restricted basis and are not to be used in any way detrimental to WEC.
Project: L. Wood	Date: 9/26/99	**EMS2000 Proposed Installation Drawing Wireless System with W/O Master Control Unit**
Design	Date: 9/26/99	
Check	Date	
Draft	Date: 9/26/99	
WEC Project Number: 12461		Winn Energy Controls, Inc.
Customer Identification Number		Drawing Number: DWG-14200-100 / Scale / Revision
Customer: Small Box Retail		

Revisions			
Ltr	Description	Date	Appr'd
N/C	Proposal	9/26/99	

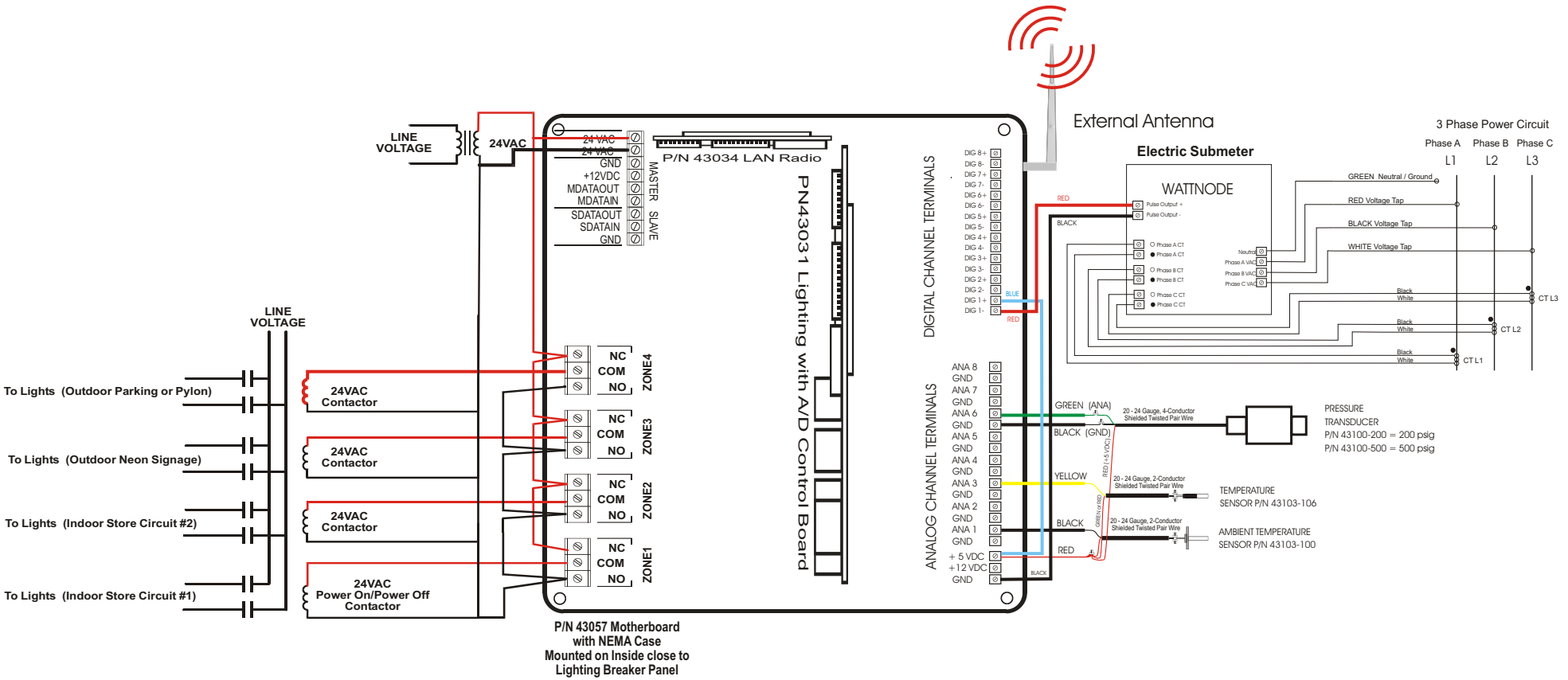


Notes:

1. See Installation manual and EnergyPro User Guide for details.

WEC Approved		This drawing and the information disclosed thereon are the property of Winn Energy Controls, Inc. The drawing and information are provided on a restricted basis and are not to be used in any way detrimental to WEC.
Project: L. Wood	Date: 9/26/99	
Design	Date: 9/26/99	**EMS2000 Proposal Installation Drawing Wireless EMS2000 HVAC Control Module**
Check	Date	
Draft	Date: 9/26/99	
WEC Project Number: 12461		WW Winn Energy Controls, Inc.
Customer Identification Number		Drawing Number: DWG-12461-001 / Scale / Revision
Customer: Small Box Retail		

Revisions			
Ltr	Description	Date	Appr'd
N/C	Proposal	9/26/99	

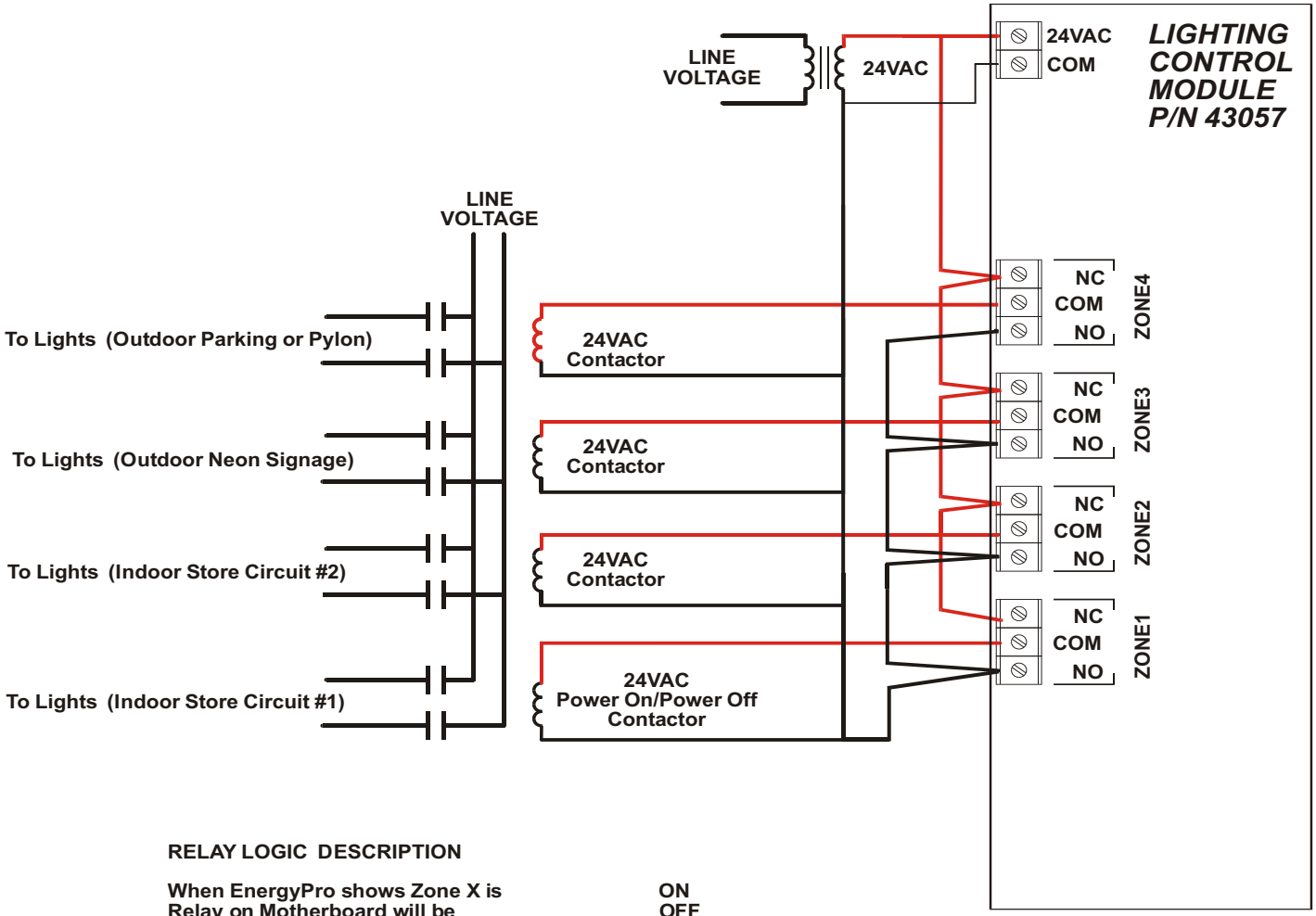


Notes:

1. See Installation manual and EnergyPro User Guide for details.

WEC Approved		This drawing and the information disclosed thereon are the property of Winn Energy Controls, Inc. The drawing and information are provided on a restricted basis and are not to be used in any way detrimental to WEC.
Project: L. Wood	Date: 9/26/99	
Design	Date: 9/26/99	**EMS2000 Installation Drawing Wireless EMS2000 Lighting with A/D Control Module**
Check	Date	
Draft	Date: 9/26/99	
WEC Project Number: 12461		Winn Energy Controls, Inc.
Customer Identification Number		
Customer: Small Box Retail	Drawing Number: DWG-12461-001	Scale / Revision

Revisions			
Ltr	Description	Date	Appr'd
N/C	Recommended Installation	6/06/02	RW



NOTES:

1. Install the Lighting Control close to the high voltage lighting contacts / breaker panels.

RELAY LOGIC DESCRIPTION

When EnergyPro shows Zone X is	ON
Relay on Motherboard will be	OFF
LED for Zone X on Motherboard will be	OFF
Interposing relay will be energized	ON
24 VAC will be present on Zone X com terminal	

When EnergyPro shows Zone X is	OFF
Relay on Motherboard will be	ON
LED for Zone X on Motherboard will be	ON
Interposing relay will be de-energized	OFF
+0 VAC will be present on Zone X com terminal	

WEC Approved

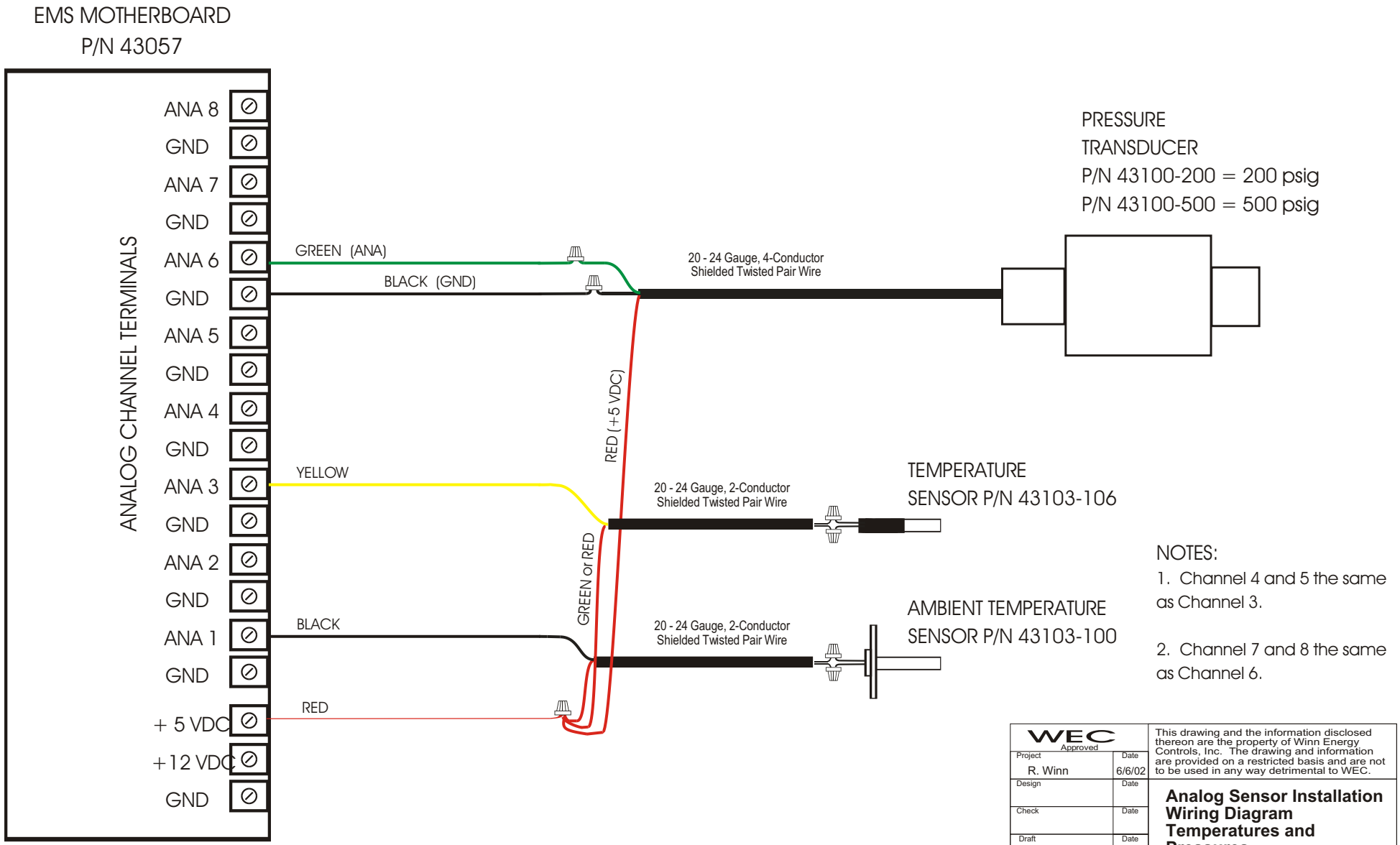
Project: R. Winn	Date: 6/6/02
Design	Date
Check	Date
Draft	Date
WEC Project Number	
Customer Identification Number	
Customer	

Lighting Controller Wiring Diagram for Lighting Contactors

Winn Energy Controls, Inc.

Drawing Number	Scale	Revision
DWG-LGT-1		

Revisions			
Ltr	Description	Date	Appr'd
N/C	Recommended Installation	6/06/02	RW



NOTES:

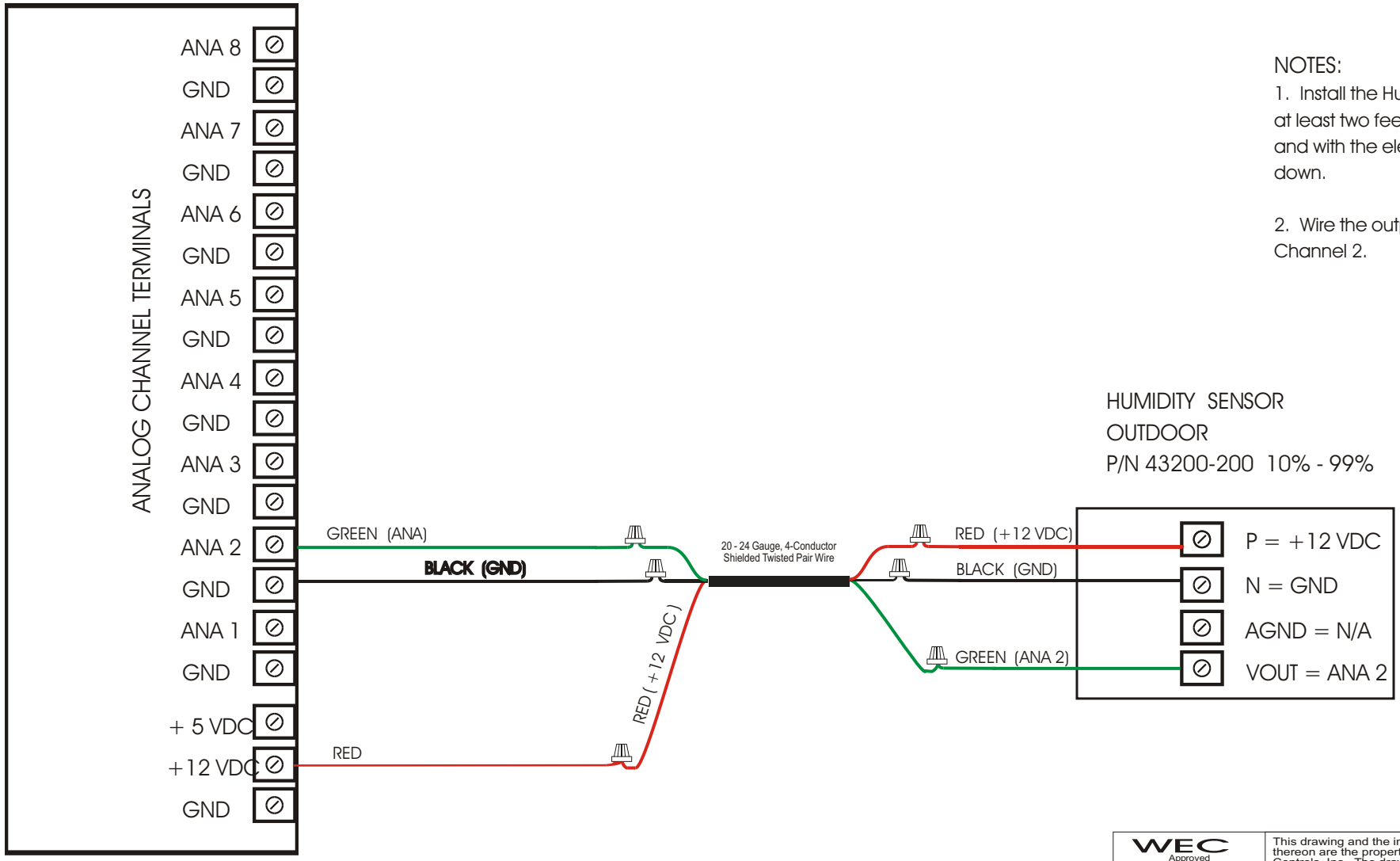
1. Channel 4 and 5 the same as Channel 3.

2. Channel 7 and 8 the same as Channel 6.

WEC Approved		This drawing and the information disclosed thereon are the property of Winn Energy Controls, Inc. The drawing and information are provided on a restricted basis and are not to be used in any way detrimental to WEC.
Project: R. Winn	Date: 6/6/02	
Design	Date	**Analog Sensor Installation Wiring Diagram Temperatures and Pressures**
Check	Date	
Draft	Date	
WEC Project Number		WW Winn Energy Controls, Inc.
Customer Identification Number		Drawing Number: DWG-SNR-1 / Scale / Revision
Customer		

Revisions			
Ltr	Description	Date	Appr'd
N/C	Recommended Installation	6/06/02	RW

EMS MOTHERBOARD
43057-124



HUMIDITY SENSOR
OUTDOOR
P/N 43200-200 10% - 99%

NOTES:

1. Install the Humidity Sensor at least two feet above the floor and with the element pointing down.

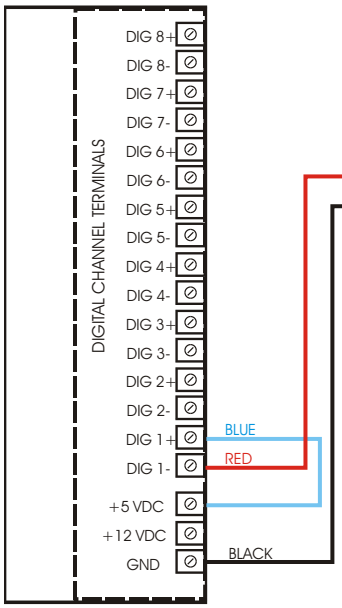
2. Wire the output to Analog Channel 2.

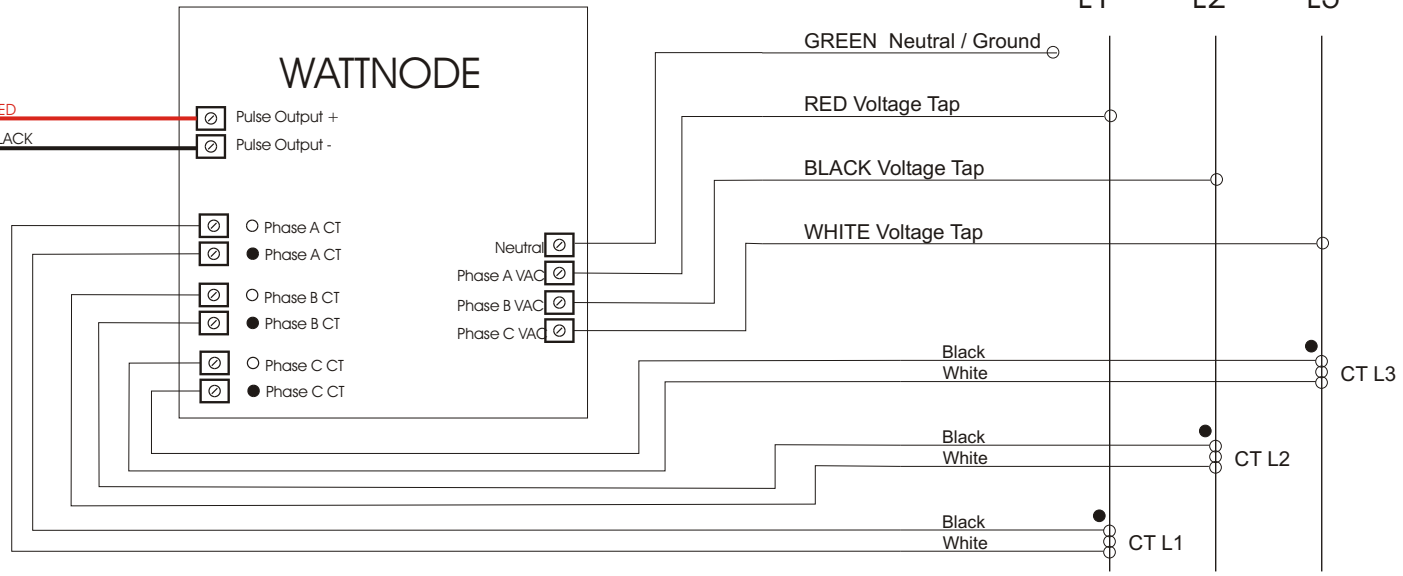
WEC Approved		This drawing and the information disclosed thereon are the property of Winn Energy Controls, Inc. The drawing and information are provided on a restricted basis and are not to be used in any way detrimental to WEC.
Project: R. Winn	Date: 6/6/02	**Analog Sensor Installation Wiring Diagram Humidity Sensor**
Design	Date	
Check	Date	
Draft	Date	
WEC Project Number		WW Winn Energy Controls, Inc.
Customer Identification Number		Drawing Number: DWG-SNR-2 / Scale / Revision
Customer		

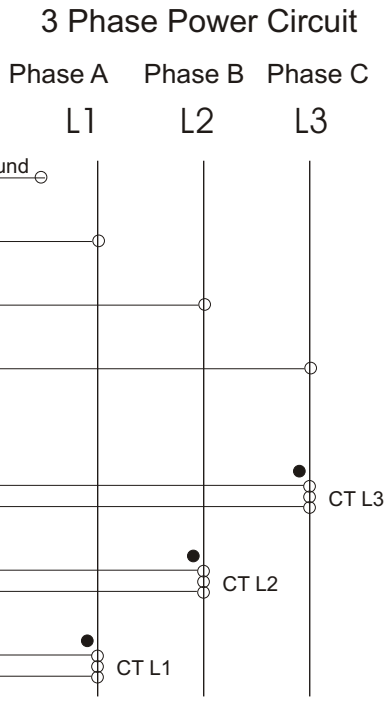
Revisions			
Ltr	Description	Date	Appr'd
N/C	Recommended Installation	4/12/07	RW

Electric Meter

EMS Motherboard
43057







Note: Do Not Power Up the Electric Meter Without All Connections Including the Pulse Output Connected to the Motherboard!!!

Three Phase Four Wire WYE

The wires are neutral and three power lines with AC waveforms shifted 120 deg between successive phases. With this configuration, the line voltage wires may be connected to the Phase A, B and C terminals in any order, **so long as the CTs are connected to the matching phases.** It is important, however, that you connect the neutral line correctly. Three phase four wire wye circuits should be measured with the WNA-3Y-208-P (208 VAC phase to phase and 120 VAC phase to neutral), WNA-3Y-400-P (400 VAC phase to phase and 230 VAC phase to neutral), the WNA-3Y-480-P (480 VAC phase to phase and 277 VAC phase to neutral), the WNA-3Y-600-P (600 VAC phase to phase and 377 VAC phase to neutral), depending on the line voltage.

Notes

1) This drawing outlines the recommended installation of the electric meter for submetering a typical 3 Phase 4 Wire Circuit.

2) The current transformers (Cts) should be installed with the THIS SIDE FORWARD label toward the line side of the input power.

3) Do not power the electric meter until all connections are made including the pulse output to the EMS motherboard.

WEC Approved

Project	Date
Design	Date
Check	Date
Draft	Date
WEC Project Number	
Customer Identification Number	
Customer	

Electric Meter Installation Typical Wiring Diagram WattNode Submeter

Winn Energy Controls, Inc.

Drawing Number	Scale	Revision
DWG-WATTNODE-1		