

LEVITON®
Applications Cookbook
GreenMAX DRC System
Version 2.0

FOR REFERENCE ONLY

GREENMAX DRC SYSTEM COOKBOOK NOTES

1. Refer to manufacturer's data sheets and installation instructions prior to installation
2. Line feed 120/230/277 VAC, 60 Hz
3. Ground not shown, ground devices per applicable national and local codes are best practices
4. For emergency power situations, illustrations assume transfer switch by others upstream of shown devices
5. Line voltage load not to exceed contact rating per device specifications
6. Power packs receiving separate feeds for switched loads and self power must have both feeds on the same phase
7. All low voltage devices consume current. Device power budget is estimated for these details—additional power sources may be required. See product literature for power specifications
8. Maximum run length for analog wiring is 1000' @ #18 AWC
9. Sensors wired in parallel will cause line voltage relay closure when occupancy is detected by any unit
10. Devices in series requiring contact closure from a single device (clock input, demand response, emergency, etc.) must follow these wiring conventions:
 - First device in sequence provides the +V to the triggering relay
 - Signal from closure attached to all devices in sequence input
 - Com from first device in sequence attached to com on all devices in sequence
11. Ultrasonic ceiling mount sensors should be located a minimum of six (6) feet from HVAC supply/return vents
12. Trough-mounted and pendant-mounted indirect lighting sources affect the operation of locally mounted sensors. Contractor is responsible for adjusting sensor locations to allow for proper operation

13. Contractor is responsible for proper sensitivity and time delay settings for non-adaptive products, following the manufacturer's recommended placement, and field verification of circuits with respect to power pack placement
14. Contractor is responsible for coordinating the operational options of sensors and power packs with the specific work requirements
 - Work relevant energy code requirements affect circuits to be controlled and their control characteristics
 - One power pack is required for each controlled circuit
 - Refer to power pack data sheet for power output and installation guide for maximum number of sensors connected to a power pack
 - If multiple circuits are to be controlled by a sensor, auxiliary relays may be used in conjunction with a power pack
15. Ceiling sensors mounted over doorways should be placed one (1) foot inside the threshold
16. Up to 100 Mark VII style ballasts may be controlled per daylighting zone by IRC
17. All relays shown in de-energized state
18. Individually cap off unused leads
19. One-line parenthesis use:
 - (X) Function
 - [#] Terminal
20. Plug load control—commercial receptacle P/Ns:
 - STANDARD DUPLEX:
 - Split control (1 outlet) CR015-1Px, CR020-1Px
 - Full control (2 outlets) CR015-2Px, CR020-2Px
 - DECORA®:
 - Split control (1 outlet) 16252-1Px, 16352-1Px
 - Full control (2 outlets) 16252-2Px, 16352-2Px

ABBREVIATIONS:

| | |
|-----|--|
| LC | LumaCAN |
| LV | Low voltage |
| HV | High voltage switch (maintained) |
| LVM | Low voltage switch (momentary) Equal to Leviton 1081 (toggle) OR Leviton 56081 (Decora) |
| LVT | Low voltage switch (maintained) Equal to Leviton 12021-2 (toggle) or Leviton 56021-2 (Decora) |
| LV2 | IRC low voltage switch |
| UON | Unless otherwise noted |
| BLK | Black |
| WHT | White |
| BLU | Blue |
| YEL | Yellow |
| ORG | Orange |
| VIO | Violet |
| BRN | Brown |

SYMBOLS:

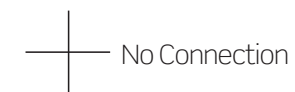
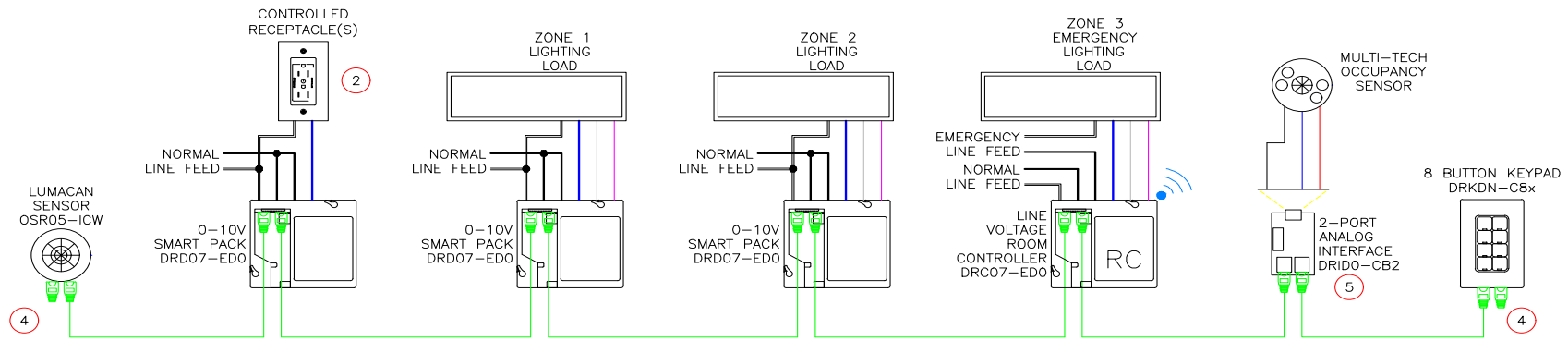


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Note: All GreenMAX DRC Keypads can be engraved. Click [here](#) for the Engraving Form.

GREENMAX DRC 3-ZONE PLUS DAYLIGHTING, TYPICAL



NOTES:

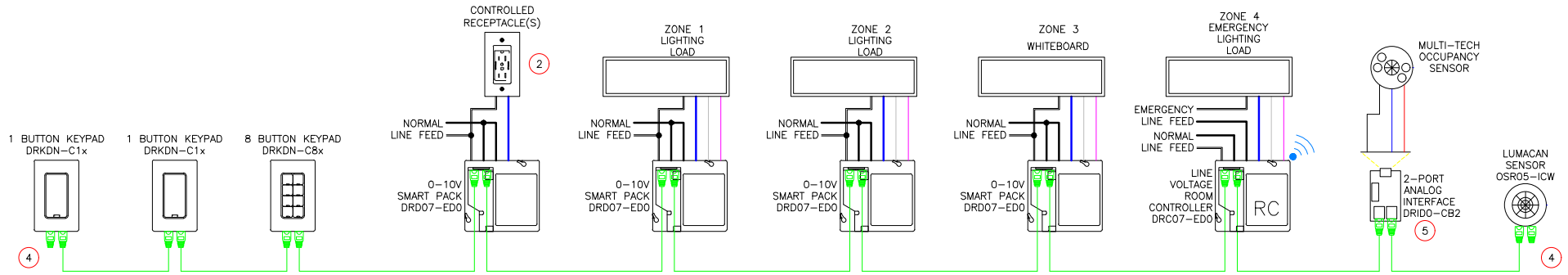
1. SMART PACK, SENSORS, AND PHASE CONTROL DIMMER QUANTITY PER CONTROL ZONE REQUIREMENTS.
2. RECEPTACLES TO BE WIRED AS SPLIT OR WHOLE CONTROLLED, CODE DEPENDENT. DIAGRAM SHOWS WHOLE CONTROL.
3. OSR05-ICW USED FOR DAYLIGHTING CONTROL. PROVIDE AS REQUIRED PER DAYLIGHTING ZONE.
4. TERMINATE EACH END OF A LUMACAN NETWORK.
5. DEVICES MOUNTED ATOP A 4x4 SQUARE BDX COVER.
6. REFER TO PRODUCT LITERATURE (DATA SHEETS, INSTALLATION MANUALS, ETC.) FOR MORE INFORMATION.

WIRE RUN KEY:

- LUMACAN
- 0-10V FIXTURE CONTROL, VID
- 0-10V FIXTURE CONTROL, GRY
- LOW VOLTAGE +24VDC
- LOW VOLTAGE DCC
- LOW VOLTAGE SIG
- LINE VOLTAGE, LINE
- LINE VOLTAGE, LOAD
- LINE VOLTAGE, NEU

For DWG file, see Leviton Marketing Cookbook_Final Draft 200110.dwg, drawing #1, "3-Zone Plus Daylighting, Typical"

GREENMAX DRC 3-ZONE PLUS WHITEBOARD, DAYLIGHTING, TYPICAL



NOTES:

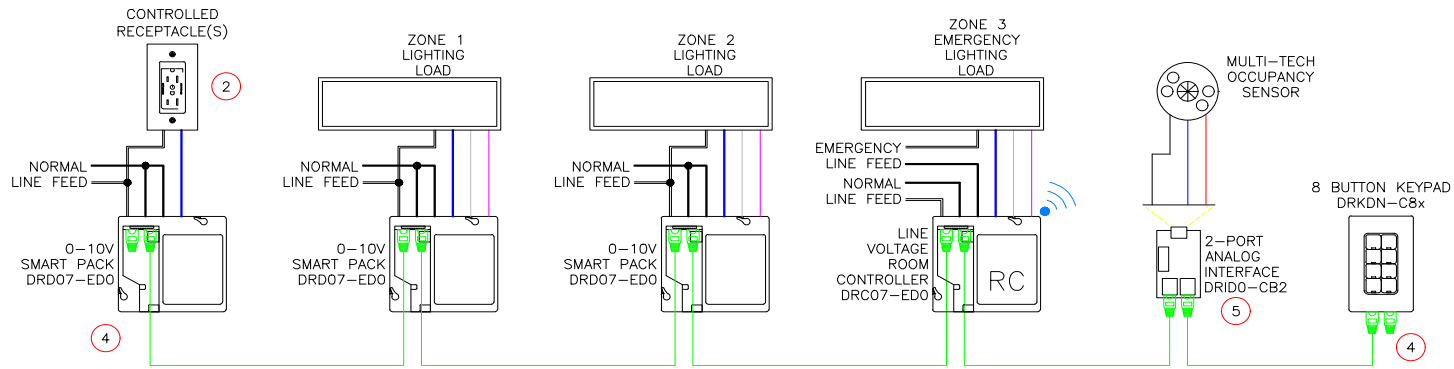
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For DWG file, see Leviton Marketing Cookbook_Final Draft 200110.dwg, drawing #2, "3-Zone Plus Daylighting, Typical"

GREENMAX DRC 3-ZONE NO DAYLIGHTING, TYPICAL



NOTES:

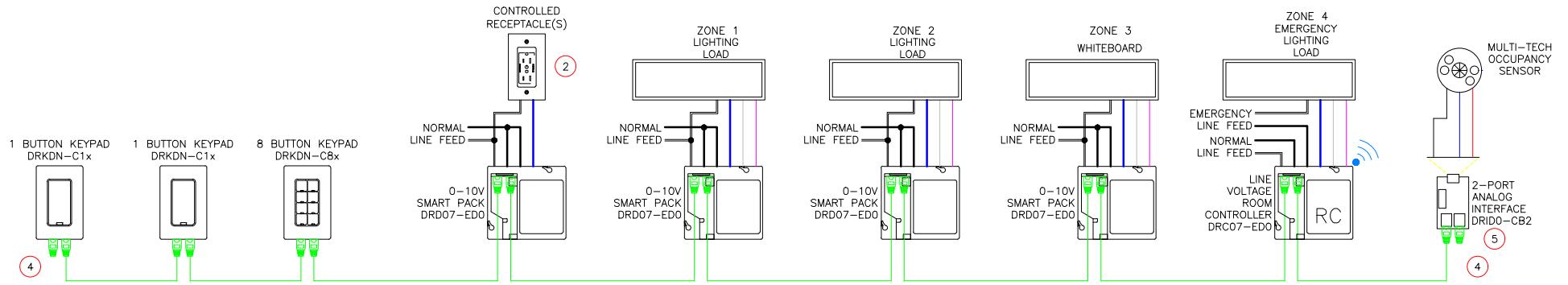
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- LINE VOLTAGE, LINE
- LINE VOLTAGE, LOAD
- LINE VOLTAGE, NEU

For DWG file, see Leviton Marketing Cookbook_Final Draft 200110.dwg, drawing #3, “3-Zone No Daylighting, Typical”

GREENMAX DRC 3-ZONE PLUS WHITEBOARD NO DAYLIGHTING, TYPICAL



NOTES:

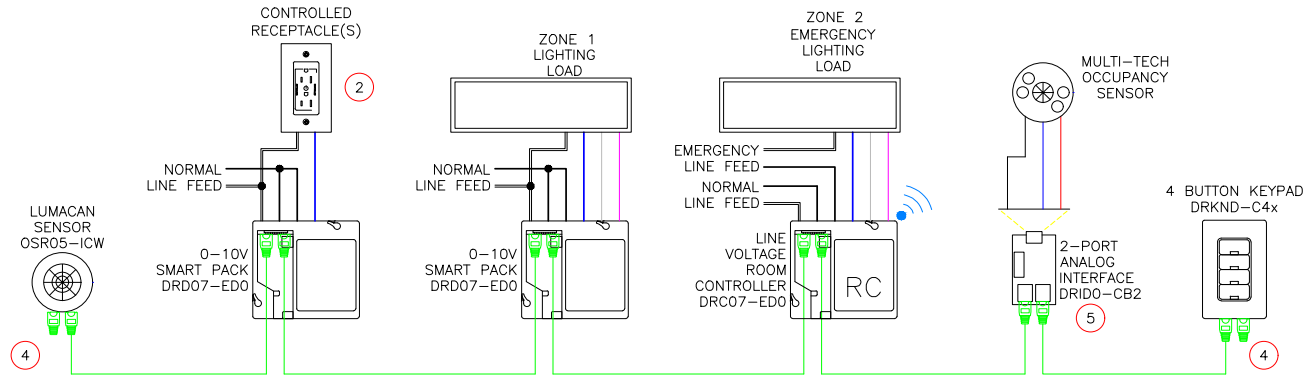
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- LINE VOLTAGE, LOAD
- LINE VOLTAGE, NEU

For DWG file, see Leviton Marketing Cookbook_Final Draft 200110.dwg, drawing #4, "3-Zone Plus Whiteboard No Daylighting, Typical"

GREENMAX DRC 2-ZONE PLUS DAYLIGHTING, TYPICAL



NOTES:

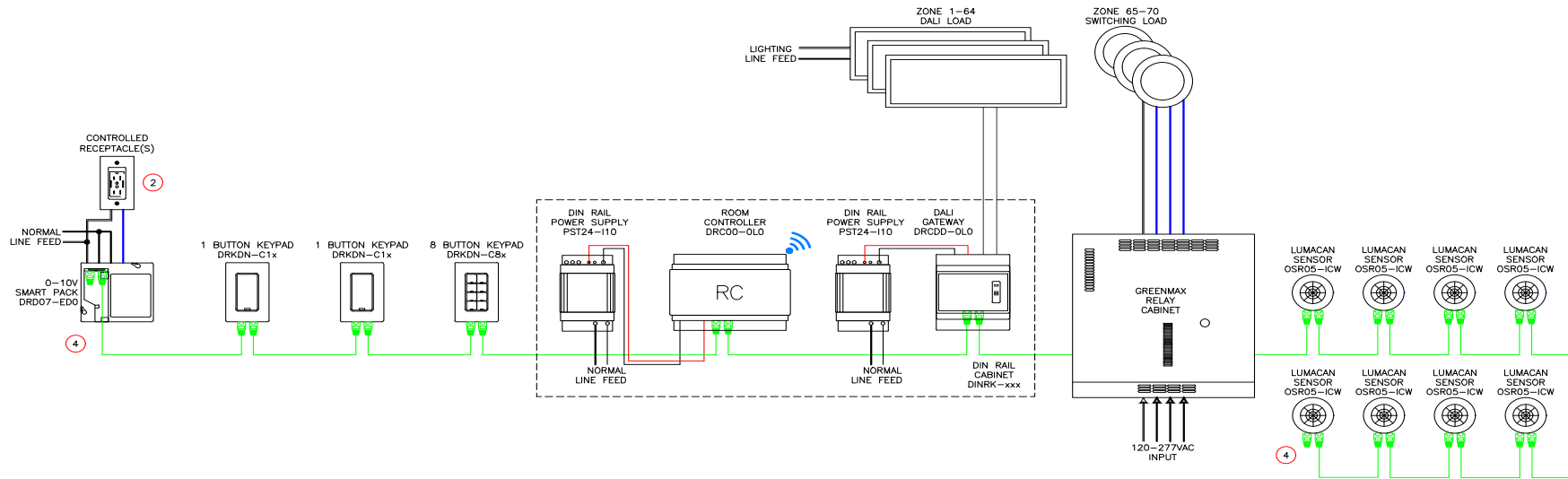
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- LINE VOLTAGE, LOAD
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For DWG file, see Leviton Marketing Cookbook_Final Draft 200110.dwg, drawing #5, "2-Zone Plus Daylighting, Typical"

GREENMAX DRC 70-ZONE DALI PLUS 8-ZONE RELAY PLUS LIGHTING, TYPICAL



NOTES:

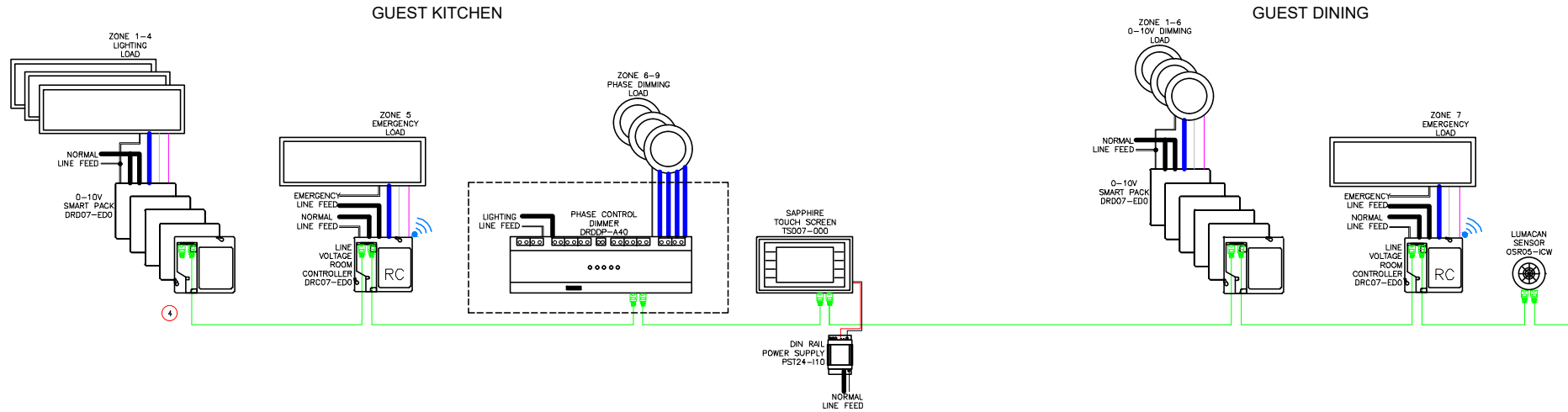
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- LOW VOLTAGE DCC
- LOW VOLTAGE SIG
- LINE VOLTAGE, LINE
- LINE VOLTAGE, LOAD
- LINE VOLTAGE, NEU

For DWG file, see Leviton Marketing Cookbook_Final Draft 200110.dwg, drawing #6, "70-Zone DALI Plus 8-Zone Relay Plus Lighting, Typical"

GREENMAX DRC HOSPITALITY PUBLIC AREAS, TYPICAL



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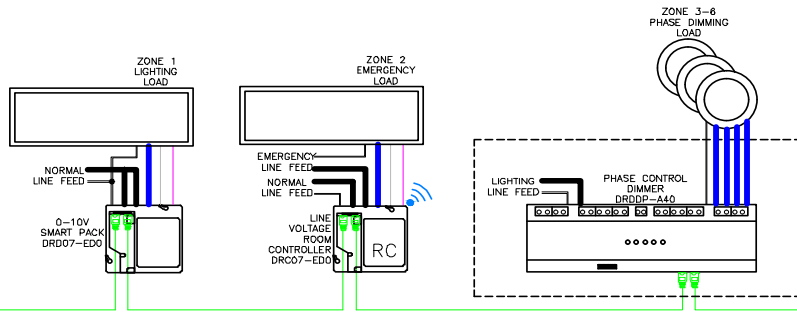
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- LINE VOLTAGE, NEU

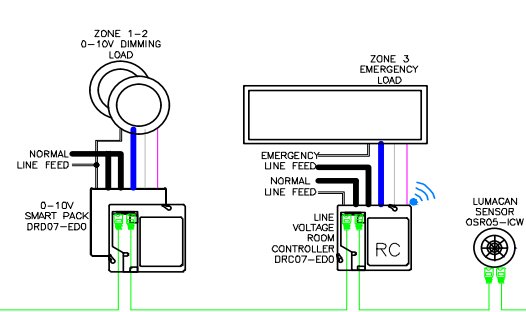
For DWG file, see Leviton Marketing Cookbook_Final Draft 200110.dwg, drawing #7, "Hospitality Public Areas, Typical"

GREENMAX DRC HOSPITALITY PUBLIC AREAS, TYPICAL (CONTINUED)

CHECK-IN



LOUNGE 2



NOTES:

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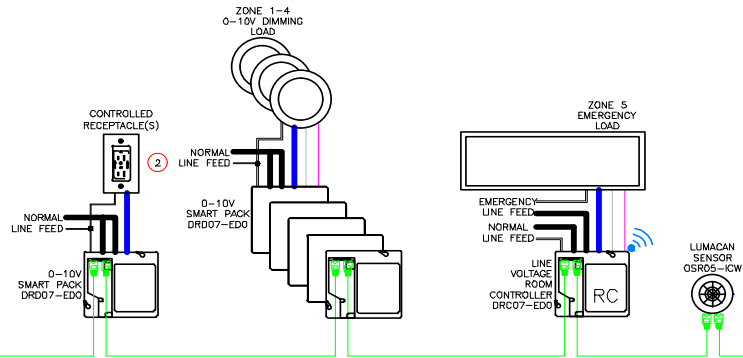
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- LINE VOLTAGE, NEU

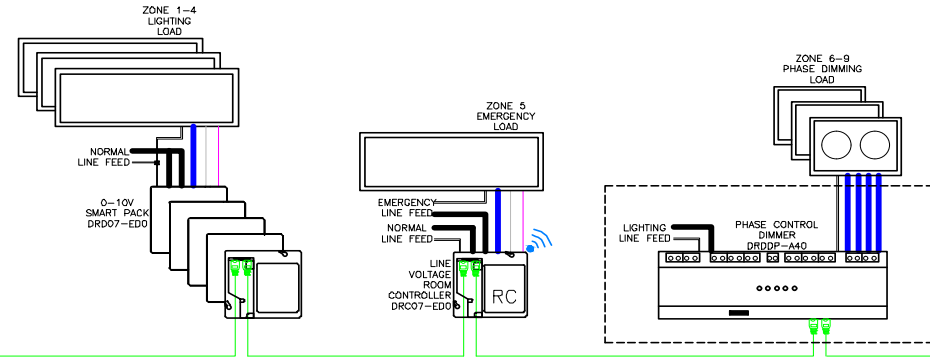
For DWG file, see Leviton Marketing Cookbook_Final Draft 200110.dwg, drawing #7, "Hospitality Public Areas, Typical"

GREENMAX DRC HOSPITALITY PUBLIC AREAS, TYPICAL (CONTINUED)

LOBBY



BUSINESS CENTER



NOTES:

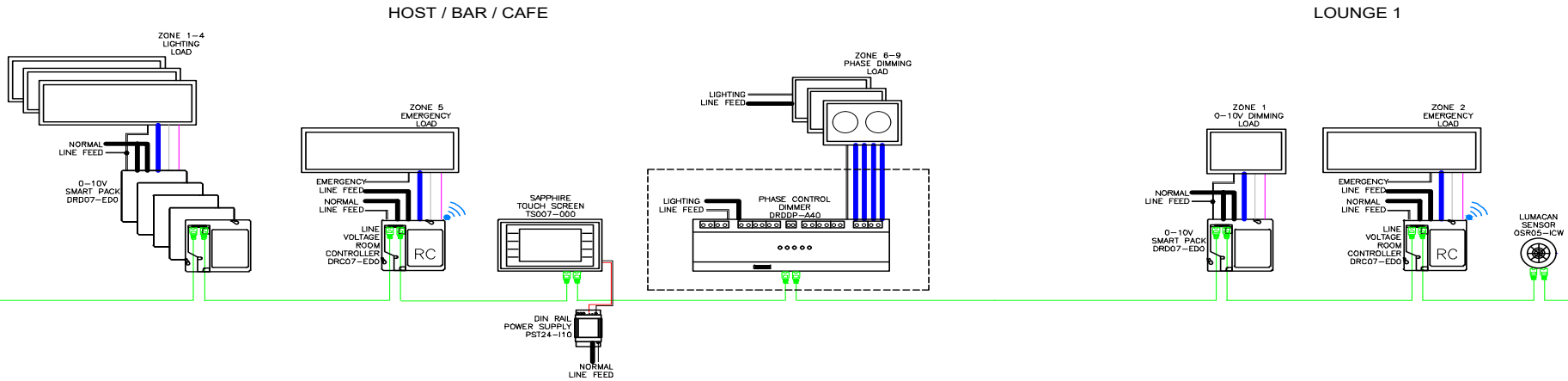
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For DWG file, see Leviton Marketing Cookbook_Final Draft 200110.dwg, drawing #7, "Hospitality Public Areas, Typical"

GREENMAX DRC HOSPITALITY PUBLIC AREAS, TYPICAL (CONTINUED)



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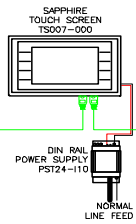
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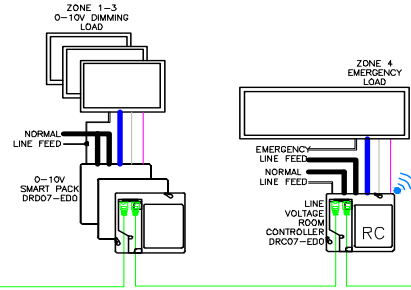
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GREENMAX DRC HOSPITALITY PUBLIC AREAS, TYPICAL (CONTINUED)

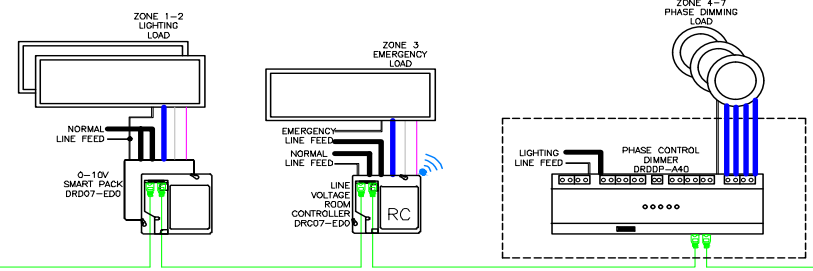
GM OFFICE



CORRIDOR



ELEVATOR LOBBY



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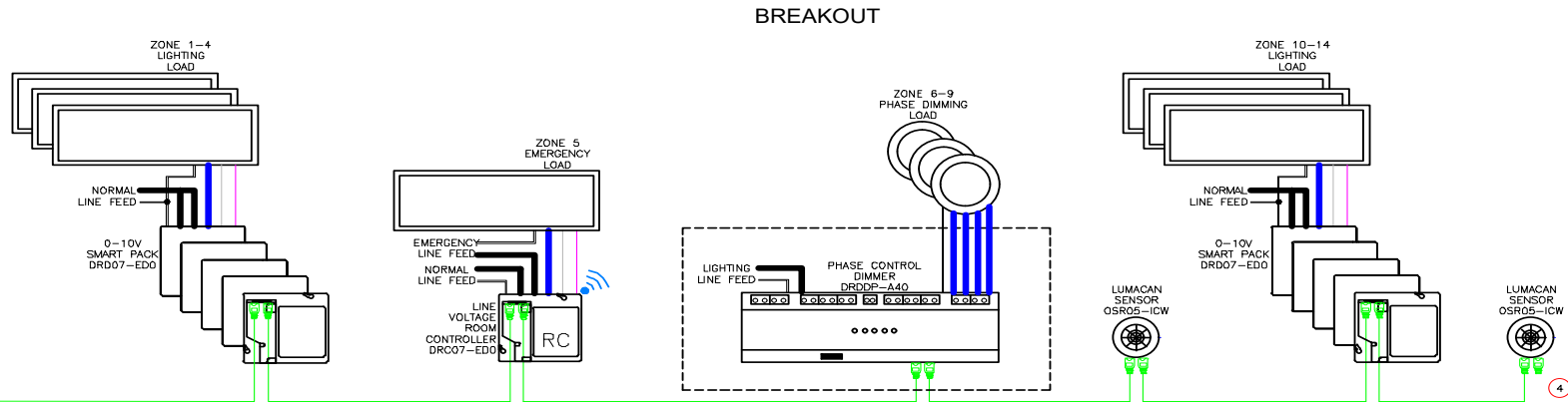
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- LINE VOLTAGE, LOAD
- LINE VOLTAGE, NEU

For DWG file, see Leviton Marketing Cookbook_Final Draft 200110.dwg, drawing #7, "Hospitality Public Areas, Typical"

GREENMAX DRC HOSPITALITY PUBLIC AREAS, TYPICAL (CONTINUED)



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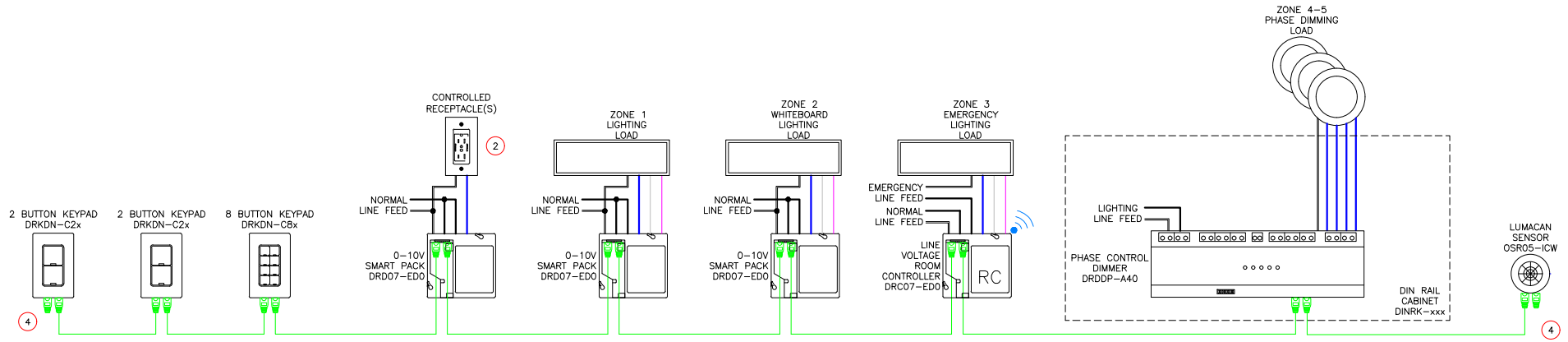
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For DWG file, see Leviton Marketing Cookbook_Final Draft 200110.dwg, drawing #7, "Hospitality Public Areas, Typical"

GREENMAX DRC

3-ZONE 0-10V PLUS 2-ZONE PHASE CONTROL DIMMING, TYPICAL



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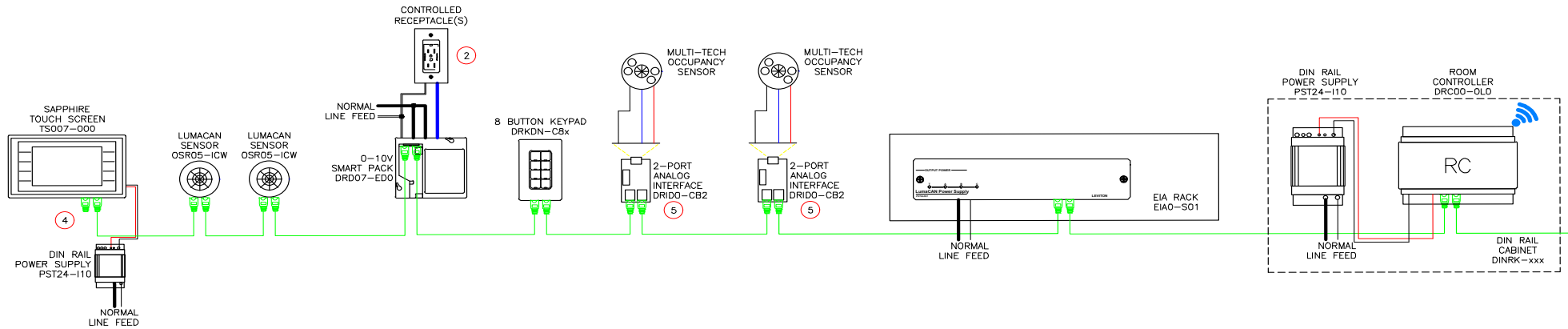
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- LOW VOLTAGE SIG
- LINE VOLTAGE, LINE
- LINE VOLTAGE, LOAD
- LINE VOLTAGE, NEU

For DWG file, see Leviton Marketing Cookbook_Final Draft 200110.dwg, drawing #8, "3-Zone 0-10V Plus 2-Zone Phase Control Dimming, Typical"

GREENMAX DRC 18-ZONE PHASE CONTROL DIMMING, TYPICAL



NOTES:

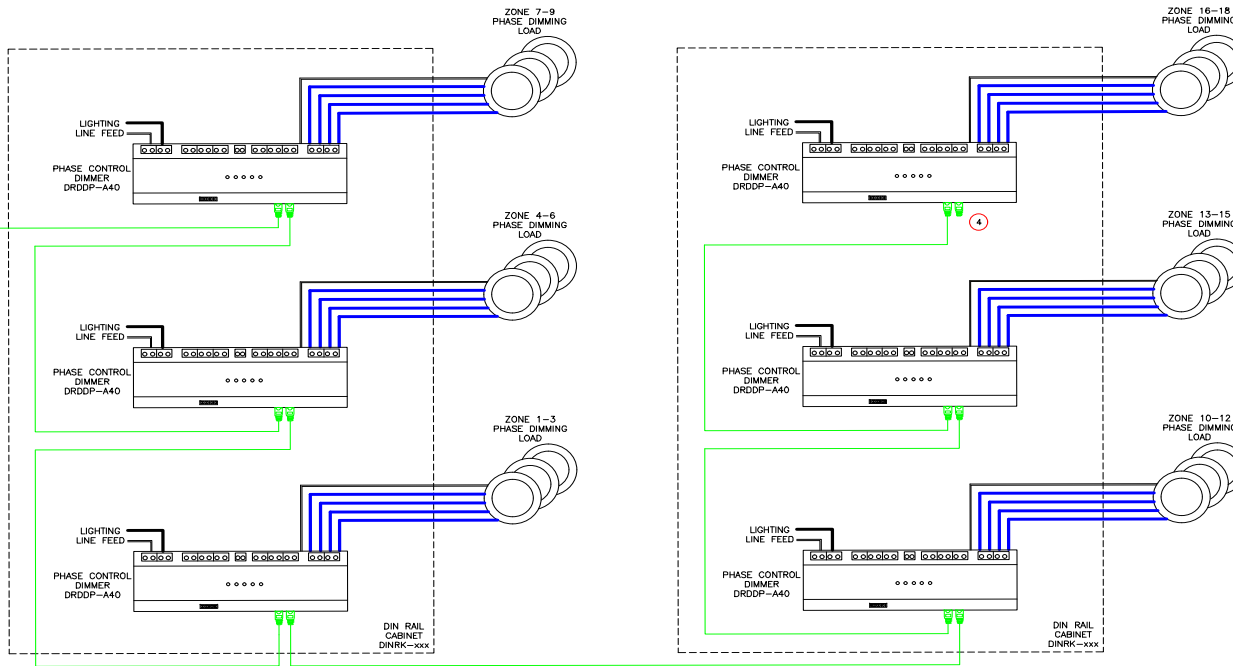
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- LOW VOLTAGE SIG
- LINE VOLTAGE, LINE
- LINE VOLTAGE, LOAD
- LINE VOLTAGE, NEU

For DWG file, see Leviton Marketing Cookbook_Final Draft 200110.dwg, drawing #9, "18-Zone Phase Control Dimming, Typical"

GREENMAX DRC 18-ZONE PHASE CONTROL DIMMING, TYPICAL (CONTINUED)



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4. TERMINATE EACH END OF A LUMACAN NETWORK.
5. DEVICES MOUNTED ATOP A 4x4 SQUARE BOX COVER.
6. REFER TO PRODUCT LITERATURE (DATA SHEETS, INSTALLATION MANUALS, ETC.) FOR MORE INFORMATION.

WIRE RUN KEY:

- LUMACAN
- 0-10V FIXTURE CONTROL, VID
- 0-10V FIXTURE CONTROL, GRY
- LOW VOLTAGE +24VDC
- LOW VOLTAGE DCC
- LOW VOLTAGE SIG
- LINE VOLTAGE, LINE
- LINE VOLTAGE, LOAD
- LINE VOLTAGE, NEU

For DWG file, see Leviton Marketing Cookbook_Final Draft 200110.dwg, drawing #9, “18-Zone Phase Control Dimming, Typical”

Leviton Manufacturing Co., Inc. Lighting & Controls

20497 SW Teton Avenue, Tualatin, OR 97062 **tel** 800-736-6682 **fax** 503-404-5594 **tech line** (6:00AM-4:00PM PT Mon-Fri) 800-959-6004

Leviton Manufacturing Co., Inc. Global Headquarters

201 North Service Road, Melville, NY 11747-3138 **tel** 800-323-8920 **fax** 800-832-9538 **tech line** (8:30AM-7:00PM ET Mon-Fri) 800-824-3005

Visit our Website at: www.leviton.com/greemaxdrc

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