





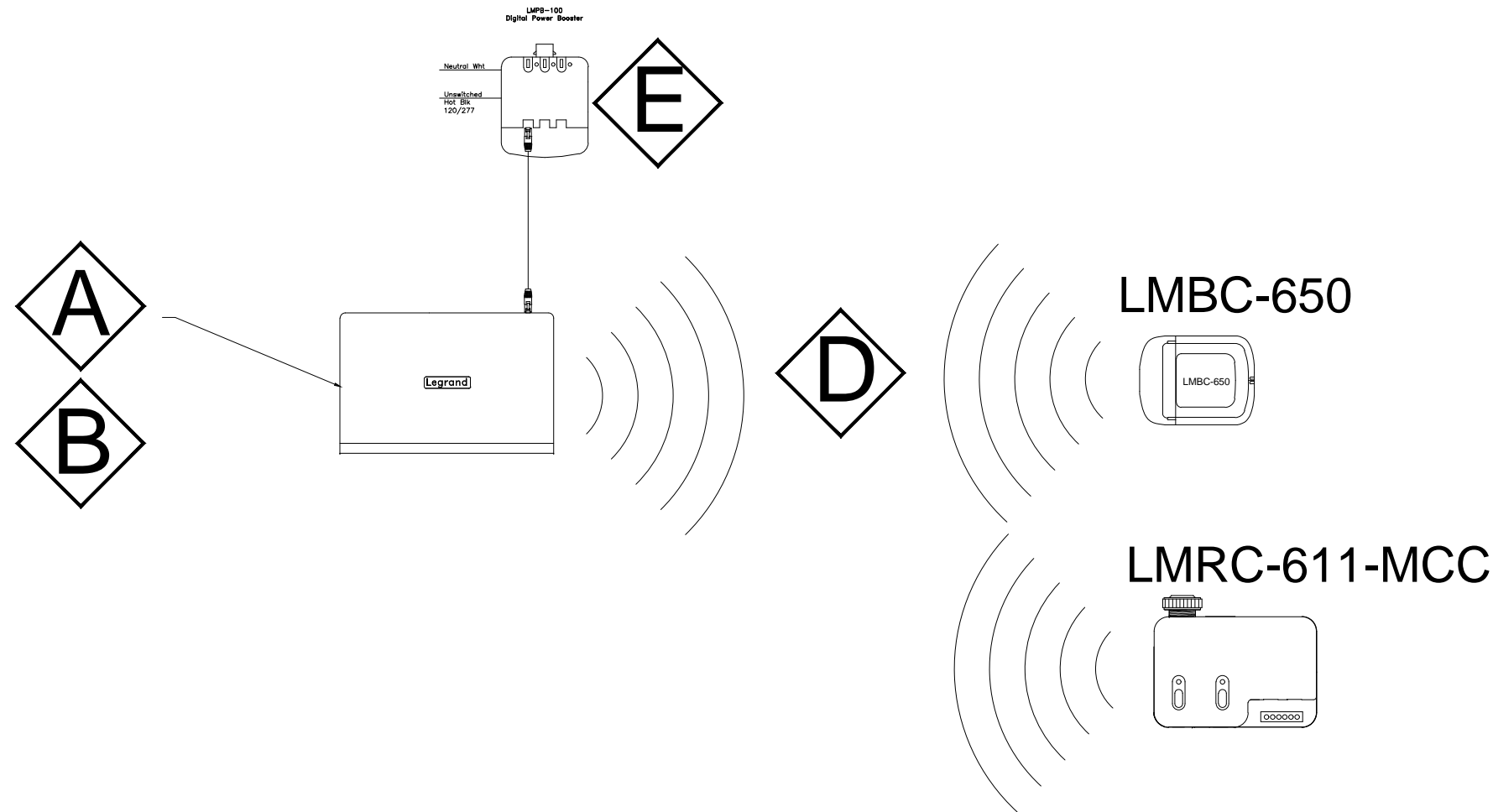


Typical Drawing Notes

- A** LMBR-650 Do Not Mount in Electrical Closet or in a Metallic Enclosure
- B** LMBR-650 Place in the Middle of REED Devices to be Connected
- C** LMBR-650 Primary Shall Control no More Than 10 Routers
- D** 50 LMBC-650 or LMRC-611-MCC/250 Connected (Design with 20% Spare Factor= 42 Rooms/187 Devices)
- E** LMBR-650 Power Supply LMPB-100 Included, Optional NB-PS
- F** Customers BAS- BACNet Points for LMBC-650 only
- G** 328' Max Length to Next IP Device or Switch
- H** Optional RACCESS Cell Antenna
- I** Internet Connection Required on Device Running DLM Dashboard

Device Legend

-  LMNC, 16 port switch, Raccess, LMBR-650(primary)
-  LM-ENC1, 5 Port Switch
-  LMBR-650 Network Border Router
-  LMRC-611-MCC, Room Controller 0-10v Dimming, Metering, Contact Closure
-  LMPB-100, Power supply 120.277v to 24vdc
-  LMBC-650, Network Bridge, w/ Bluetooth



Typical Notes for LMBR-650

- Follow manufacturer instructions for proper product placement, installation, wiring and operation.
- LMBR-650 is powered by 24VDC via the LMPB-100 (included) or 120VAC power supply Part #NB-PS (sold separately)
- Minimum of 1 LMBR-650 to be installed per floor.
- When installing LMBR-650 Secondary's, It's critical to position in relationship to the Routing/REED devices (LMRC's, LMPL's and the LMBC's) they are controlling. The LMBR-650 Secondary's must be installed outside of the electrical room to maximize distance of wireless mesh network.
- LMBR-650 provides secure self-forming mesh network for up to 50 Routing/REED devices (LMRC's, LMPL's and the LMBC's) /250 DLM devices 650 (only trusted hardware may communicate with the LMBR-650. LMBC-650,LMRC-611MCC, and LMPL-611)
- Security features of the LMBR-650 require the user to be "authenticated" to make changes to settings of the site Lighting Control System.
- Program the LMBR-650 with LMCS-100 v4.7 or later, and DLM Dashboard software.
- For projects requiring multiple LMBR-650 (Secondary's), an additional LMBR-650 (Primary) is added to provide supervisory network controller functionality
 - Supervisory (or Primary LMBR) only communicates with other LMBR-650 via wired IP
 - Recommended to be installed inside an electrical closet or inside a configured DLM network enclosure
- A LMBR-650 is capable of providing the following supervisory network controller functionality
 - Device management for basic parameter changes and monitoring
 - Building wide schedules and scenes for IPv6 mesh wireless connected devices and areas
 - Demand response
 - BACnet integration over IP via Ethernet (Wired rooms with LMBC-650 only)
- RACCESS modem is recommended for remote management of wireless system

PROJECT:

DATE

DESCRIPTION

REV

SHEET INFORMATION:

ORIGINAL DOCUMENT:

DATE

DESCRIPTION

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SHEET: 1 LMBR







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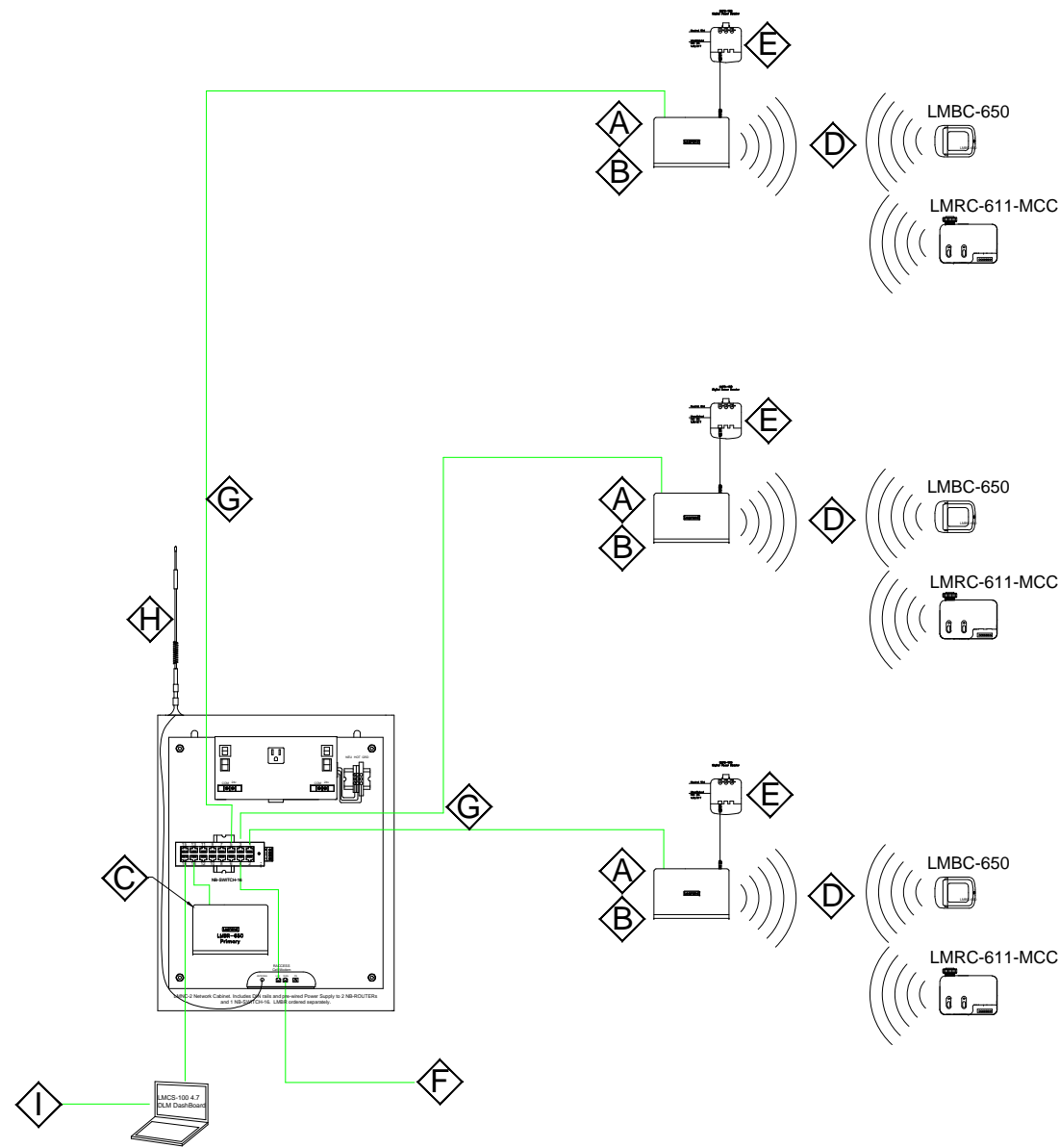
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Typical Drawing Notes

- A** LMBR-650 Do Not Mount in Electrical Closet or in a Metallic Enclosure
- B** LMBR-650 Place in the Middle of REED Devices to be Connected
- C** LMBR-650 Primary Shall Control no More Than 10 Routers
- D** 50 LMBC-650 or LMRC-611-MCC/250 Connected (Design with 20% Spare Factor= 42 Rooms/187 Devices)
- E** LMBR-650 Power Supply LMPB-100 Included, Optional NB-PS
- F** Customers BAS- BACNet Points for LMBC-650 only
- G** 328' Max Length to Next IP Device or Switch
- H** Optional RACCESS Cell Antenna
- I** Internet Connection Required on Device Running DLM Dashboard

Device Legend

-  LMNC, 16 port switch, Raccess, LMBR-650(primary)
-  LM-ENC1, 5 Port Switch
-  LMBR-650 Network Border Router
-  LMRC-611-MCC, Room Controller 0-10v Dimming, Metering, Contact Closure
-  LMPB-100, Power supply 120.277v to 24vdc
-  LMBC-650, Network Bridge, w/ Bluetooth



Typical Notes for LMBR-650

- Follow manufacturer instructions for proper product placement, installation, wiring and operation.
- LMBR-650 is powered by 24VDC via the LMPB-100 (included) or 120VAC power supply Part #NB-PS (sold separately)
- Minimum of 1 LMBR-650 to be installed per floor.
- When installing LMBR-650 Secondary's, It's critical to position in relationship to the Routing/REED devices (LMRC's, LMPL's and the LMBC's) they are controlling. The LMBR-650 Secondary's must be installed outside of the electrical room to maximize distance of wireless mesh network.
- LMBR-650 provides secure self-forming mesh network for up to 50 Routing/REED devices (LMRC's, LMPL's and the LMBC's) /250 DLM devices 650 (only trusted hardware may communicate with the LMBR-650. LMBC-650,LMRC-611MCC, and LMPL-611)
- Security features of the LMBR-650 require the user to be "authenticated" to make changes to settings of the site Lighting Control System.
- Program the LMBR-650 with LMCS-100 v4.7 or later, and DLM Dashboard software.
- For projects requiring multiple LMBR-650 (Secondary's), an additional LMBR-650 (Primary) is added to provide supervisory network controller functionality
 - Supervisory (or Primary LMBR) only communicates with other LMBR-650 via wired IP
 - Recommended to be installed inside an electrical closet or inside a configured DLM network enclosure
- A LMBR-650 is capable of providing the following supervisory network controller functionality
 - Device management for basic parameter changes and monitoring
 - Building wide schedules and scenes for IPv6 mesh wireless connected devices and areas
 - Demand response
 - BACnet integration over IP via Ethernet (Wired rooms with LMBC-650 only)
- RACCESS modem is recommended for remote management of wireless system

PROJECT:

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DESCRIPTION

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SHEET INFORMATION:

SHEET: 3 Secondary LMBR

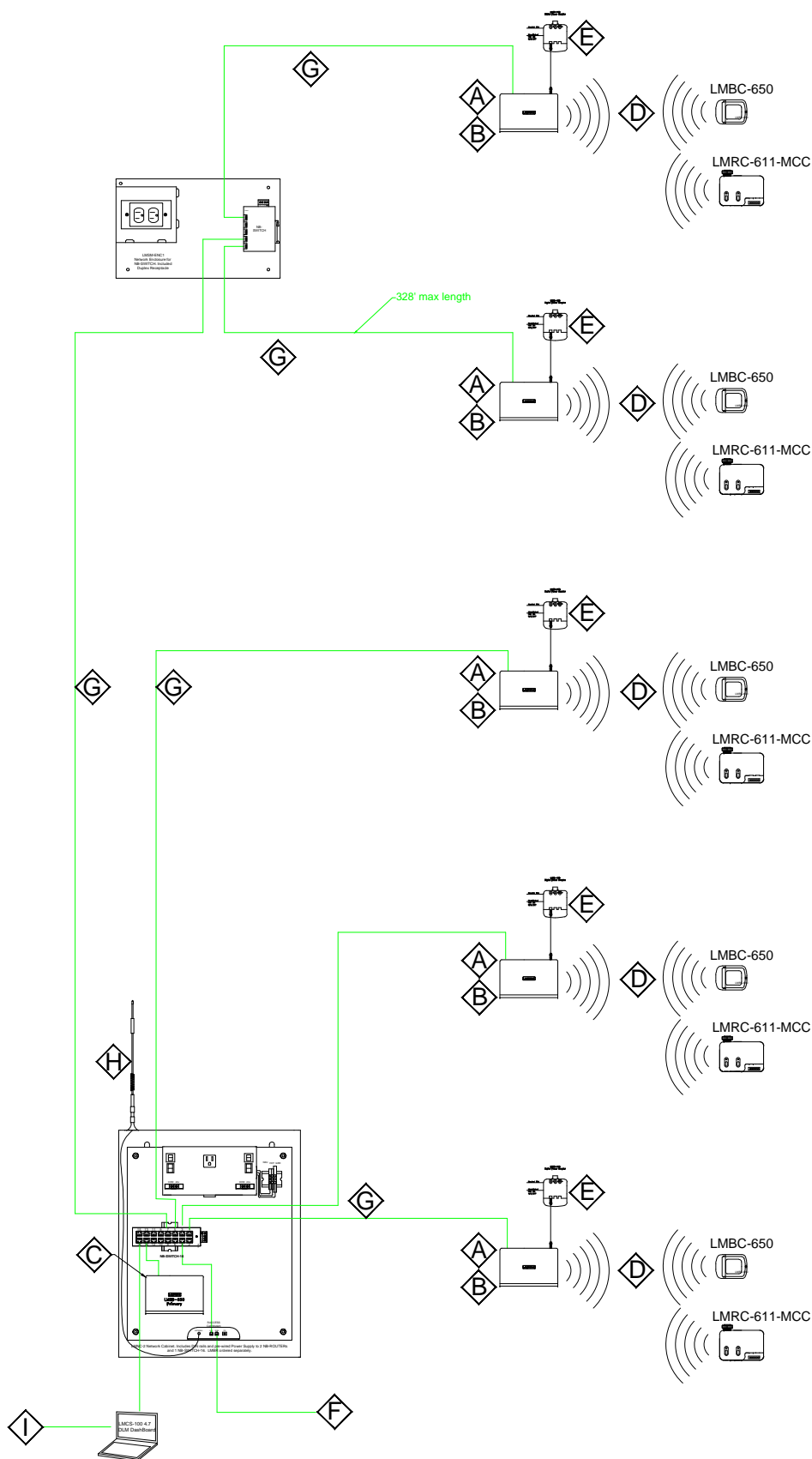
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- Typical Drawing Notes**
- A** LMBR-650 Do Not Mount in Electrical Closet or in a Metallic Enclosure
 - B** LMBR-650 Place in the Middle of REED Devices to be Connected
 - C** LMBR-650 Primary Shall Control no More Than 10 Routers
 - D** 50 LMBC-650 or LMRC-611-MCC/250 Connected (Design with 20% Spare Factor= 42 Rooms/187 Devices)
 - E** LMBR-650 Power Supply LMPB-100 Included, Optional NB-PS
 - F** Customers BAS- BACNet Points for LMBC-650 only
 - G** 328' Max Length to Next IP Device or Switch
 - H** Optional RACCESS Cell Antenna
 - I** Internet Connection Required on Device Running DLM Dashboard

- Device Legend**
- LMNC, 16 port switch, Raccess, LMBR-650(primary)
 - LM-ENC1, 5 Port Switch
 - LMBR-650 Network Border Router
 - LMRC-611-MCC, Room Controller 0-10v Dimming, Metering, Contact Closure
 - LMPB-100, Power supply 120.277v to 24vdc
 - LMBC-650, Network Bridge, w/ Bluetooth

Typical Notes for LMBR-650

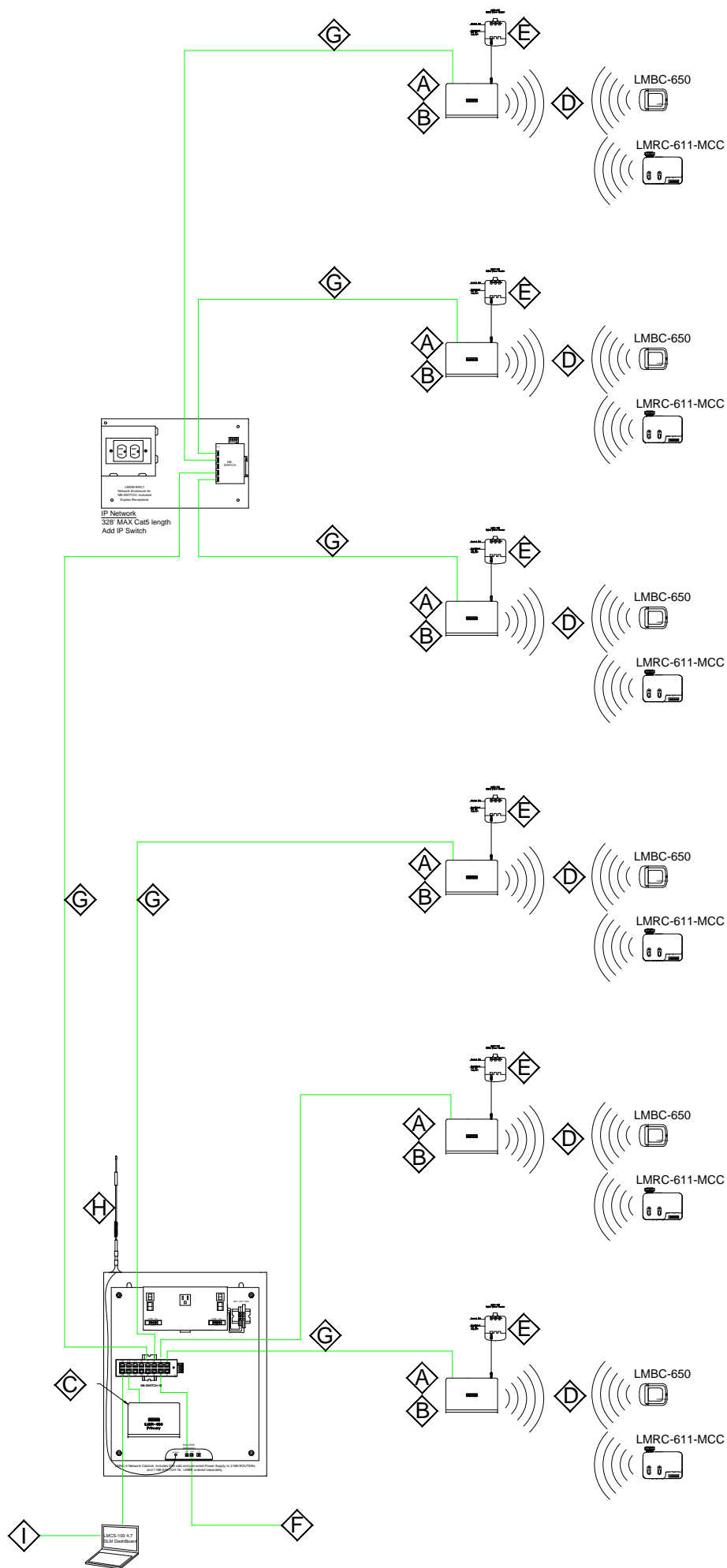
- Follow manufacturer instructions for proper product placement, installation, wiring and operation.
- LMBR-650 is powered by 24VDC via the LMPB-100 (included) or 120VAC power supply Part #NB-PS (sold separately)
- Minimum of 1 LMBR-650 to be installed per floor.
- When installing LMBR-650 Secondary's, It's critical to position in relationship to the Routing/REED devices (LMRC's, LMPL's and the LMBC's) they are controlling. The LMBR-650 Secondary's must be installed outside of the electrical room to maximize distance of wireless mesh network.
- LMBR-650 provides secure self-forming mesh network for up to 50 Routing/REED devices (LMRC's, LMPL's and the LMBC's) /250 DLM devices 650 (only trusted hardware may communicate with the LMBR-650. LMBC-650,LMRC-611MCC, and LMPL-611)
- Security features of the LMBR-650 require the user to be "authenticated" to make changes to settings of the site Lighting Control System.
- Program the LMBR-650 with LMCS-100 v4.7 or later, and DLM Dashboard software.
- For projects requiring multiple LMBR-650 (Secondary's), an additional LMBR-650 (Primary) is added to provide supervisory network controller functionality
 - Supervisory (or Primary LMBR) only communicates with other LMBR-650 via wired IP
 - Recommended to be installed inside an electrical closet or inside a configured DLM network enclosure
- A LMBR-650 is capable of providing the following supervisory network controller functionality
 - Device management for basic parameter changes and monitoring
 - Building wide schedules and scenes for IPv6 mesh wireless connected devices and areas
 - Demand response
 - BACnet integration over IP via Ethernet (Wired rooms with LMBC-650 only)
- RACCESS modem is recommended for remote management of wireless system

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SHEET INFORMATION:		DATE:	QUOTE:
SHEET:	5 Secondary LMBR		



Typical Drawing Notes

- A** LMBR-650 Do Not Mount in Electrical Closet or in a Metallic Enclosure
- B** LMBR-650 Place in the Middle of REED Devices to be Connected
- C** LMBR-650 Primary Shall Control no More Than 10 Routers
- D** 50 LMBC-650 or LMRC-611-MCC/250 Connected (Design with 20% Spare Factor= 42 Rooms/187 Devices)
- E** LMBR-650 Power Supply LMPB-100 Included, Optional NB-PS
- F** Customers BAS- BACNet Points for LMBC-650 only
- G** 328' Max Length to Next IP Device or Switch
- H** Optional RACCESS Cell Antenna
- I** Internet Connection Required on Device Running DLM Dashboard

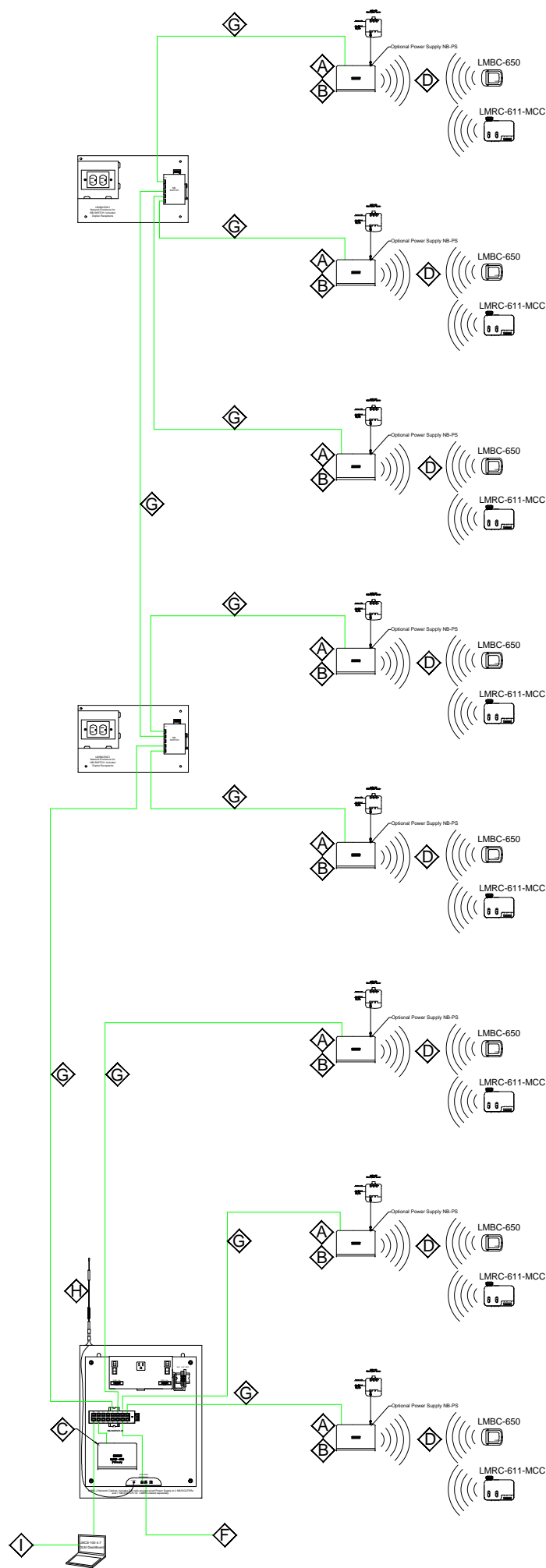
Device Legend

- LMNC, 16 port switch, Raccess, LMBR-650(primary)
- LM-ENC1, 5 Port Switch
- LMBR-650 Network Border Router
- LMRC-611-MCC, Room Controller 0-10v Dimming, Metering, Contact Closure
- LMPB-100, Power supply 120.277v to 24vdc
- LMBC-650, Network Bridge, w/ Bluetooth

Typical Notes for LMBR-650

- Follow manufacturer instructions for proper product placement, installation, wiring and operation.
- LMBR-650 is powered by 24VDC via the LMPB-100 (included) or 120VAC power supply Part #NB-PS (sold separately)
- Minimum of 1 LMBR-650 to be installed per floor.
- When installing LMBR-650 Secondary's, It's critical to position in relationship to the Routing/REED devices (LMRC's, LMPL's and the LMBC's) they are controlling. The LMBR-650 Secondary's must be installed outside of the electrical room to maximize distance of wireless mesh network.
- LMBR-650 provides secure self-forming mesh network for up to 50 Routing/REED devices (LMRC's, LMPL's and the LMBC's) /250 DLM devices 650 (only trusted hardware may communicate with the LMBR-650. LMBC-650,LMRC-611MCC, and LMPL-611)
- Security features of the LMBR-650 require the user to be "authenticated" to make changes to settings of the site Lighting Control System.
- Program the LMBR-650 with LMCS-100 v4.7 or later, and DLM Dashboard software.
- For projects requiring multiple LMBR-650 (Secondary's), an additional LMBR-650 (Primary) is added to provide supervisory network controller functionality
 - Supervisory (or Primary LMBR) only communicates with other LMBR-650 via wired IP
 - Recommended to be installed inside an electrical closet or inside a configured DLM network enclosure
- A LMBR-650 is capable of providing the following supervisory network controller functionality
 - Device management for basic parameter changes and monitoring
 - Building wide schedules and scenes for IPv6 mesh wireless connected devices and areas
 - Demand response
 - BACnet integration over IP via Ethernet (Wired rooms with LMBC-650 only)
- RACCESS modem is recommended for remote management of wireless system

PROJECT:		DATE	DESCRIPTION	REV
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SHEET:	6 Secondary LMBR			
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Typical Drawing Notes

- A** LMBR-650 Do Not Mount in Electrical Closet or in a Metallic Enclosure
- B** LMBR-650 Place in the Middle of REED Devices to be Connected
- C** LMBR-650 Primary Shall Control no More Than 10 Routers
- D** 50 LMBC-650 or LMRC-611-MCC/250 Connected (Design with 20% Spare Factor= 42 Rooms/187 Devices)
- E** LMBR-650 Power Supply LMPB-100 Included, Optional NB-PS
- F** Customers BAS- BACNet Points for LMBC-650 only
- G** 328' Max Length to Next IP Device or Switch
- H** Optional RACCESS Cell Antenna
- I** Internet Connection Required on Device Running DLM Dashboard

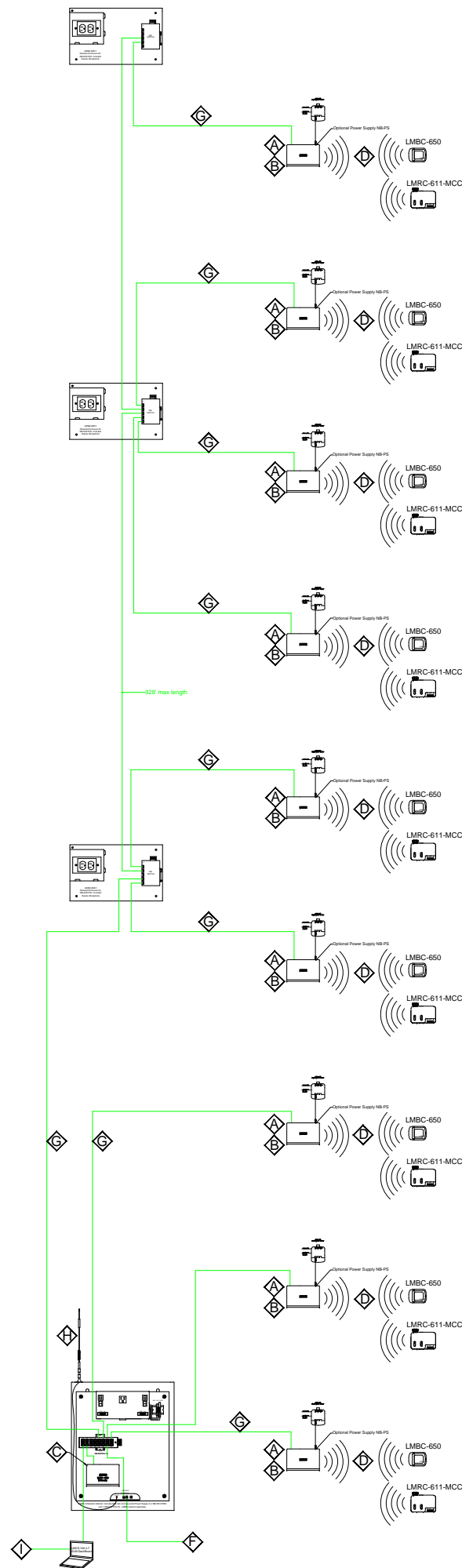
Device Legend

- LMNC, 16 port switch, Raccess, LMBR-650(primary)
- LM-ENC1, 5 Port Switch
- LMBR-650 Network Border Router
- LMRC-611-MCC, Room Controller 0-10v Dimming, Metering, Contact Closure
- LMPB-100, Power supply 120.277v to 24vdc
- LMBC-650, Network Bridge, w/ Bluetooth

Typical Notes for LMBR-650

- Follow manufacturer instructions for proper product placement, installation, wiring and operation.
- LMBR-650 is powered by 24VDC via the LMPB-100 (included) or 120VAC power supply Part #NB-PS (sold separately)
- Minimum of 1 LMBR-650 to be installed per floor.
- When installing LMBR-650 Secondary's, It's critical to position in relationship to the Routing/REED devices (LMRC's, LMPL's and the LMBC's) they are controlling. The LMBR-650 Secondary's must be installed outside of the electrical room to maximize distance of wireless mesh network.
- LMBR-650 provides secure self-forming mesh network for up to 50 Routing/REED devices (LMRC's, LMPL's and the LMBC's) /250 DLM devices 650 (only trusted hardware may communicate with the LMBR-650. LMBC-650,LMRC-611MCC, and LMPL-611)
- Security features of the LMBR-650 require the user to be "authenticated" to make changes to settings of the site Lighting Control System.
- Program the LMBR-650 with LMCS-100 v4.7 or later, and DLM Dashboard software.
- For projects requiring multiple LMBR-650 (Secondary's), an additional LMBR-650 (Primary) is added to provide supervisory network controller functionality
 - Supervisory (or Primary LMBR) only communicates with other LMBR-650 via wired IP
 - Recommended to be installed inside an electrical closet or inside a configured DLM network enclosure
- A LMBR-650 is capable of providing the following supervisory network controller functionality
 - Device management for basic parameter changes and monitoring
 - Building wide schedules and scenes for IPv6 mesh wireless connected devices and areas
 - Demand response
 - BACnet integration over IP via Ethernet (Wired rooms with LMBC-650 only)
- RACCESS modem is recommended for remote management of wireless system







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SHEET INFORMATION:				
SHEET:	8 Secondary LMBR			
DATE:				
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Typical Drawing Notes

- A** LMBR-650 Do Not Mount in Electrical Closet or in a Metallic Enclosure
- B** LMBR-650 Place in the Middle of REED Devices to be Connected
- C** LMBR-650 Primary Shall Control no More Than 10 Routers
- D** 50 LMBC-650 or LMRC-611-MCC/250 Connected (Design with 20% Spare Factor= 42 Rooms/187 Devices)
- E** LMBR-650 Power Supply LMPB-100 Included, Optional NB-PS
- F** Customers BAS- BACNet Points for LMBC-650 only
- G** 328' Max Length to Next IP Device or Switch
- H** Optional RACCESS Cell Antenna
- I** Internet Connection Required on Device Running DLM Dashboard

Device Legend

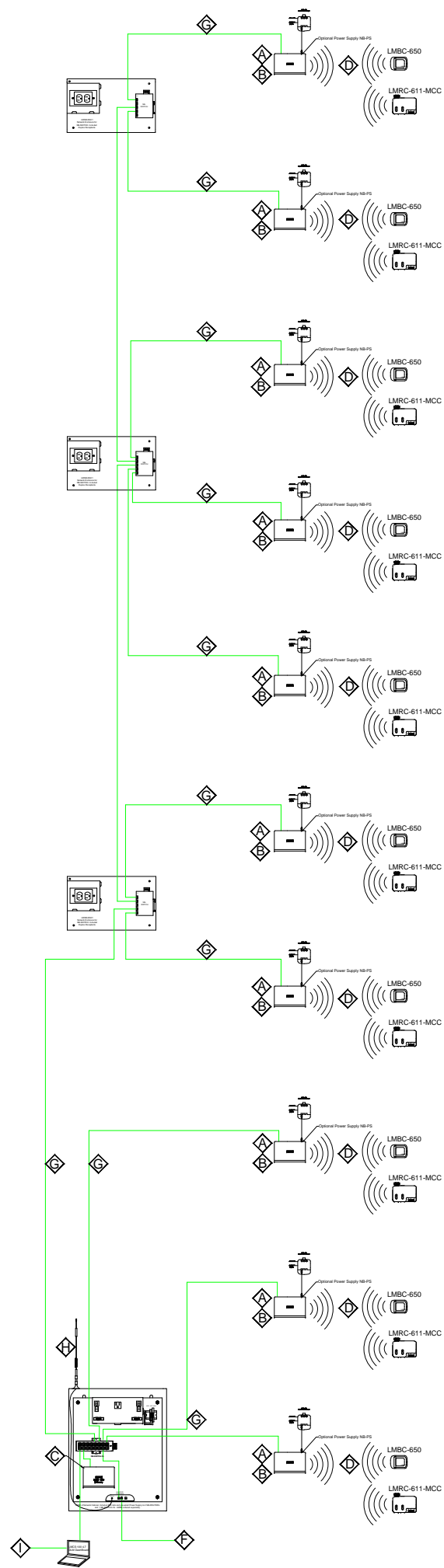
-  LMNC, 16 port switch, Raccess, LMBR-650(primary)
-  LM-ENC1, 5 Port Switch
-  LMBR-650 Network Border Router
-  LMRC-611-MCC, Room Controller 0-10v Dimming, Metering, Contact Closure
-  LMPB-100, Power supply 120.277v to 24vdc
-  LMBC-650, Network Bridge, w/ Bluetooth

Typical Notes for LMBR-650

- Follow manufacturer instructions for proper product placement, installation, wiring and operation.
- LMBR-650 is powered by 24VDC via the LMPB-100 (included) or 120VAC power supply Part #NB-PS (sold separately)
- Minimum of 1 LMBR-650 to be installed per floor.
- When installing LMBR-650 Secondary's, It's critical to position in relationship to the Routing/REED devices (LMRC's, LMPL's and the LMBC's) they are controlling. The LMBR-650 Secondary's must be installed outside of the electrical room to maximize distance of wireless mesh network.
- LMBR-650 provides secure self-forming mesh network for up to 50 Routing/REED devices (LMRC's, LMPL's and the LMBC's) /250 DLM devices 650 (only trusted hardware may communicate with the LMBR-650. LMBC-650,LMRC-611MCC, and LMPL-611)
- Security features of the LMBR-650 require the user to be "authenticated" to make changes to settings of the site Lighting Control System.
- Program the LMBR-650 with LMCS-100 v4.7 or later, and DLM Dashboard software.
- For projects requiring multiple LMBR-650 (Secondary's), an additional LMBR-650 (Primary) is added to provide supervisory network controller functionality
 - Supervisory (or Primary LMBR) only communicates with other LMBR-650 via wired IP
 - Recommended to be installed inside an electrical closet or inside a configured DLM network enclosure
- A LMBR-650 is capable of providing the following supervisory network controller functionality
 - Device management for basic parameter changes and monitoring
 - Building wide schedules and scenes for IPv6 mesh wireless connected devices and areas
 - Demand response
 - BACnet integration over IP via Ethernet (Wired rooms with LMBC-650 only)
- RACCESS modem is recommended for remote management of wireless system

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



SHEET INFORMATION:	
SHEET:	9 Secondary LMBR
DATE:	
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Typical Drawing Notes

- A** LMBR-650 Do Not Mount in Electrical Closet or in a Metallic Enclosure
- B** LMBR-650 Place in the Middle of REED Devices to be Connected
- C** LMBR-650 Primary Shall Control no More Than 10 Routers
- D** 50 LMBC-650 or LMRC-611-MCC/250 Connected (Design with 20% Spare Factor= 42 Rooms/187 Devices)
- E** LMBR-650 Power Supply LMPB-100 Included, Optional NB-PS
- F** Customers BAS- BACNet Points for LMBC-650 only
- G** 328' Max Length to Next IP Device or Switch
- H** Optional RACCESS Cell Antenna
- I** Internet Connection Required on Device Running DLM Dashboard

Device Legend

-  LMNC, 16 port switch, Raccess, LMBR-650(primary)
-  LM-ENC1, 5 Port Switch
-  LMBR-650 Network Border Router
-  LMRC-611-MCC, Room Controller 0-10v Dimming, Metering, Contact Closure
-  LMPB-100, Power supply 120.277v to 24vdc
-  LMBC-650, Network Bridge, w/ Bluetooth

Typical Notes for LMBR-650

- Follow manufacturer instructions for proper product placement, installation, wiring and operation.
- LMBR-650 is powered by 24VDC via the LMPB-100 (included) or 120VAC power supply Part #NB-PS (sold separately)
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- When installing LMBR-650 Secondary's, It's critical to position in relationship to the Routing/REED devices (LMRC's, LMPL's and the LMBC's) they are controlling. The LMBR-650 Secondary's must be installed outside of the electrical room to maximize distance of wireless mesh network.
- LMBR-650 provides secure self-forming mesh network for up to 50 Routing/REED devices (LMRC's, LMPL's and the LMBC's) /250 DLM devices 650 (only trusted hardware may communicate with the LMBR-650. LMBC-650,LMRC-611MCC, and LMPL-611)
- Security features of the LMBR-650 require the user to be "authenticated" to make changes to settings of the site Lighting Control System.
- Program the LMBR-650 with LMCS-100 v4.7 or later, and DLM Dashboard software.
- For projects requiring multiple LMBR-650 (Secondary's), an additional LMBR-650 (Primary) is added to provide supervisory network controller functionality
 - Supervisory (or Primary LMBR) only communicates with other LMBR-650 via wired IP
 - Recommended to be installed inside an electrical closet or inside a configured DLM network enclosure
- A LMBR-650 is capable of providing the following supervisory network controller functionality
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 - Building wide schedules and scenes for IPv6 mesh wireless connected devices and areas
 - Demand response
 - BACnet integration over IP via Ethernet (Wired rooms with LMBC-650 only)
- RACCESS modem is recommended for remote management of wireless system

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SHEET INFORMATION:	DATE:	QUOTE:
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