



Energy Center

Integrated Energy Management

Easy to Install
Easy to Manage
Easy to Own

Autani, LLC
7170 Riverwood Drive, Suite B
Columbia, MD 21046
443.320.2233

www.autani.com



MANAGER & SOFTWARE

Autani Manager Appliance	1
EnergyCenter PRO Software.....	5
LightCenter Software	7
StatCenter Software	9
MeterCenter Software.....	11
PLUS Software.....	13
FanCenter Software	15
Connect Software	17
Portfolio Manager	19
Access Manager	21

LIGHTING & HVAC

e>pod Low Voltage LED Lighting Control	23
WRC Wireless Relay Controller	27
AFC-A Dimming Fixture Controller	31
WOFC Wireless Outdoor Fixture Controller	35
LightCenter MINI Wired Motion Sensor	37
LightCenter MINI Wireless Motion Sensor	39
autaniNet EnOcean Bridge	41
EnOcean Occupancy Sensor, Ceiling	43
EnOcean Occupancy Sensor, Wall	45
EnOcean Rocker Pad.....	47
EnOcean Key Card Switch	49
EnOcean Door/Window Sensor	51
ACC Wireless Relay.....	53
T32P Wireless Thermostat.....	55
StatCenter MINI Wireless Motion Sensor	57
StatCenter MINI Wireless Contact Sensor	59
Wireless Temperature Sensor.....	61
Wireless Duct Temperature Sensor	63

PLUG LOADS & METERS

SmartLet Outlet Controller	65
EMC Networked PC Energy Management	69
E50C2 Packaged Meter	73
Pulse Counter Meter Interface	75

FANS & MORE

Airius Air Pear Fan Model 45	77
Airius Air Pear Fan Model 60	79
Airius Air Pear Fan Model 100.....	81
Airius Air Pear PHI Kit.....	83
Wireless Closure Sensor	85
Wireless Range Extender	87

APPLICATIONS

Standard Product Drawings
 Standard Applications
 Typical One-Line Diagrams
(See Applications section for detailed contents)

UPDATES

Updated Data Sheets and Application drawings are available for download from our website, www.autani.com.

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
 TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com

DESCRIPTION:

The Autani *Manager* appliance is a rugged, industrial control processor that is the heart of innovative integrated energy management systems powered by *EnergyCenter+* software. The *Manager* coordinates all energy management functions utilizing *autaniNet* wireless, wired Ethernet, and optional wired connectivity to third party systems to securely manage building functions.

The compact Autani *Manager* receives input from environmental sensors, local controls, and metering devices throughout a facility. Based upon sensor input, schedule, local input, curtailment, and event information, adjustments to lighting, HVAC, fans, networked PCs, and plug devices are implemented in real time to minimize energy waste.

The Autani *Manager* is a shared appliance designed for use with Autani's *EnergyCenter* family of products that includes *LightCenter*, *StatCenter*, *MeterCenter*, *FanCenter*, and *PLUS*.

APPLICATIONS:

Autani Managers are suitable for renovation, upgrade, and new construction projects where individual fixture control and/or monitoring is desired.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Remote monitoring and control of lighting, HVAC, fans, networked PCs, and plug devices
- Metering and demand response
- Optional connectivity to Modbus and BACnet
- Easy to install and configure: simply mount, connect, power, and go!
- *autaniNet* secure wireless 2.4GHz communications with other network devices
- Data storage retains all system events for over one year; event data can be analyzed to optimize energy use and savings
- Scalable to manage a single building or an entire campus
- Graphical view of real-time and historical energy use provides comprehensive and actionable information to users
- *EnergyCenter* products operate independently or as an integrated solution
- **Designed & Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

APPLIANCE

- ♦ Mounting: Wall bracket or table-top
- ♦ Storage: SATA 2.5" hard drive
- ♦ Endpoint Capacity: ~300, upgradable to 1000
- ♦ Operating System: Secure Linux-based variant

POWER SUPPLY

- ♦ Voltage: 120VAC input/ 12VDC output
- ♦ Power: 20 watts max.

I/O SUPPORT

- ♦ LAN: 1x10/ 100/ 1000 Ethernet, TCP/ IP v4
- ♦ UDP ports: 49657, 54261, 59370, 59371
- ♦ Serial: 2 - 1 dedicated internal, 1 open
- ♦ USB: 2 USB 2.0 host interfaces

PROTOCOLS

- ♦ Serial: Modbus, RS-485, MS/ TP
- ♦ Wireless: 802.15.4 with mesh networking
- ♦ Ethernet: HTTP/ HTTPS
- ♦ Security: Internal firewall, isolated wireless and internal processors

RADIO NETWORK (*autaniNet*)

- ♦ IEEE 802.15.4-2003 2.4GHz ISM
- ♦ Range: Approx. 1000' LOS transmit/ receive

REGULATORY APPROVALS

- ♦ UL 60950-1 & CSA C22.2 No. 60950-1
- ♦ FCC V8N2RB1000141 & IC 7737A-ZRB1000141
- ♦ Certified Class B Digital Device, FCC Part 15

ENVIRONMENTAL

- ♦ Operating Temperature: 10° to 40°C
- ♦ Storage Temperature: -25° to 65°C

PHYSICAL

- ♦ Dimensions (HxWxD): 10.75 x 9.94 x 2.5in (27.31 x 25.25 x 6.35cm)
- ♦ Color: Autani Blue
- ♦ Weight: 5.0lbs (2.68kg)



Indoor use only

ORDERING INFORMATION:

SKU	Description
Appliances as shown include wall-mounted Autani <i>Manager</i> with <i>EnergyCenter</i> Software, which includes <i>StatCenter</i> , <i>LightCenter</i> , <i>MeterCenter</i> , <i>FanCenter</i> , and <i>PLUS</i> Software. Autani <i>Manager</i> Appliance includes Ethernet and <i>autaniNet</i> wireless interfaces.	
A08-01-0147-11	Autani <i>Manager</i> Appliance with EnergyCenter Basic Software, external Wireless transceiver. <i>Licensed for up to 35 devices.</i>
A08-01-0147-12	Autani <i>Manager</i> Appliance with EnergyCenter Basic Software, external Wireless transceiver. <i>Licensed for up to 100 devices.</i>
A08-01-0147-14	Autani <i>Manager</i> Appliance with EnergyCenter Basic Software, external Wireless transceiver. <i>Licensed for up to 200 devices.</i>
A08-01-0147-02	Autani <i>Manager</i> Appliance with EnergyCenter Basic Software, external Wireless transceiver. <i>Licensed for up to 400 devices.</i>
Optional Accessories:	
A08-01-0150-06	Add Connect Building Automation Interface Software to Autani <i>Manager</i> . <i>Supports TCP/IP connectivity via Tridium Niagara AX Platform or ModBus</i>
A08-01-0150-07	Add EnergyCenter PRO Advanced Automation Tools to Autani <i>Manager</i> Appliance

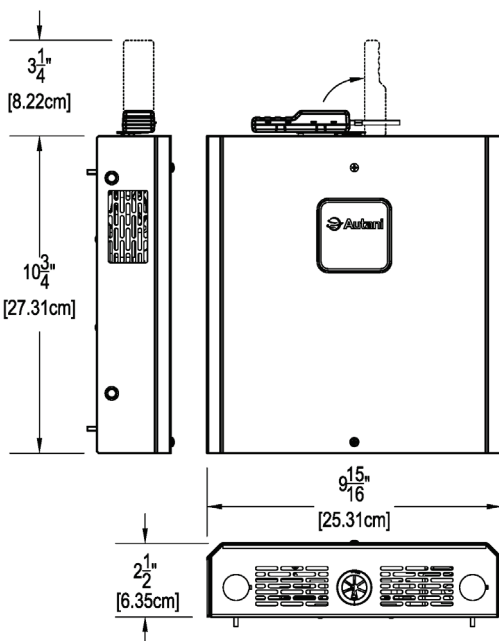


Autani, LLC
TEL (443) 320-2233
FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DIMENSIONS:



The EnergyCenter Family

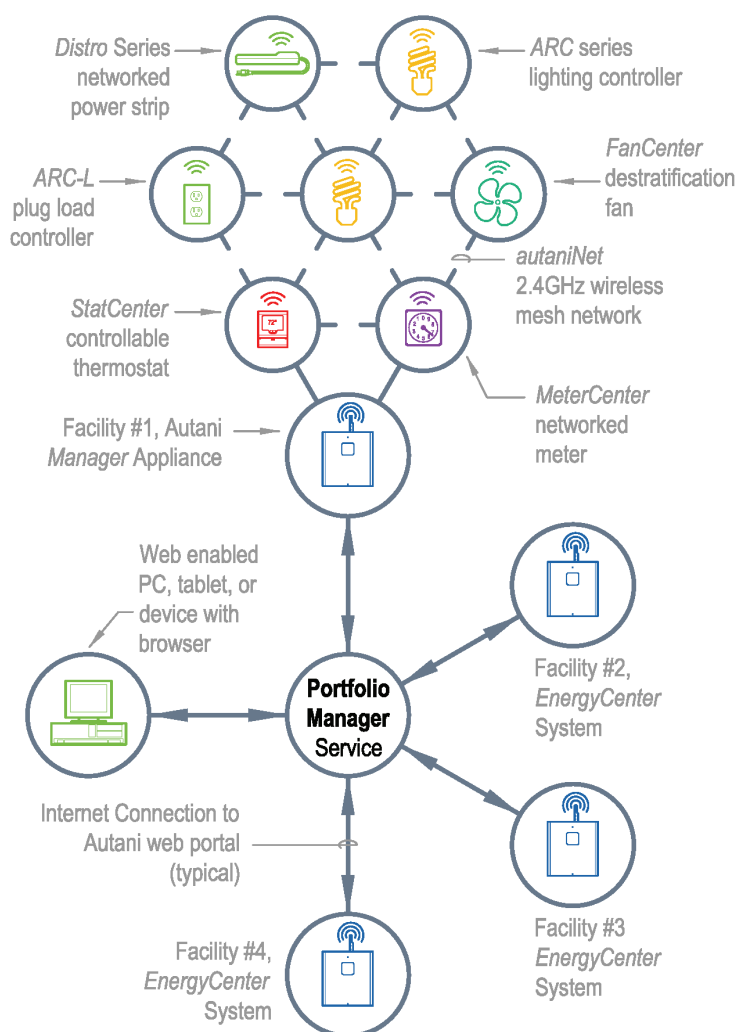
It all centers on energy management

Autani's *EnergyCenter* product line integrates lighting, climate control, fans, metering, and plug loads to provide a powerful integrated energy management solution. *LightCenter*, *StatCenter*, *FanCenter*, *MeterCenter*, and *PLUS* software share the Autani *Manager* appliance and operate as an integrated application.

EnergyCenter software communicates via the Autani *Manager* to lighting controllers, motion sensors, thermostats, fans, meters, and more using *autaniNet*, a secure wireless 2.4GHz communications network.

MULTI-SITE CONNECTIVITY:

Autani's *Portfolio Manager* is a hosted software solution for managing the temperature, lighting, and energy consumption of multi-site facilities. Using a secure, web-based interface that connects two or more *EnergyCenter* systems, *Portfolio Manager* directs schedules, alerts, and demand response events across multiple premises.

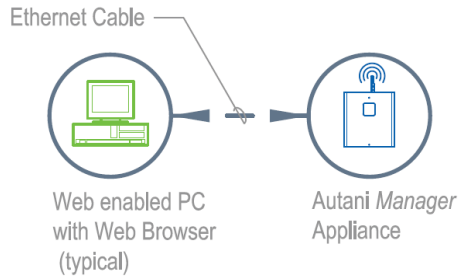


Autani, LLC

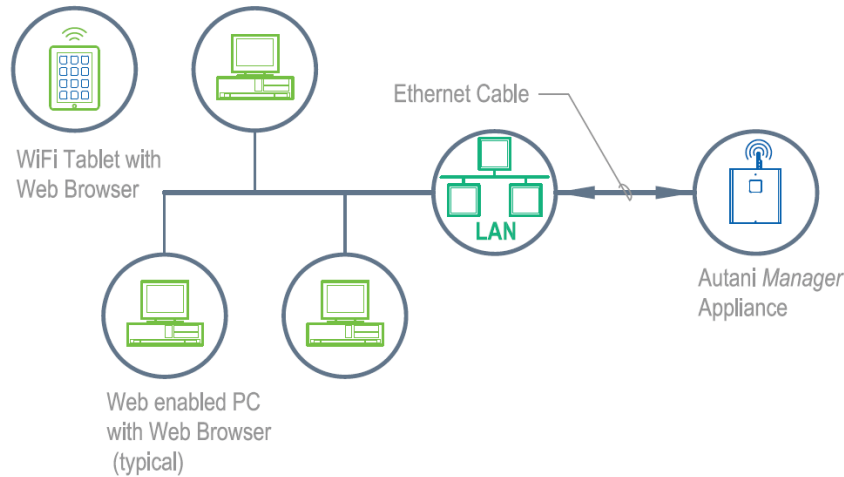
7170 Riverwood Drive, Suite B • Columbia, MD 21046
 TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



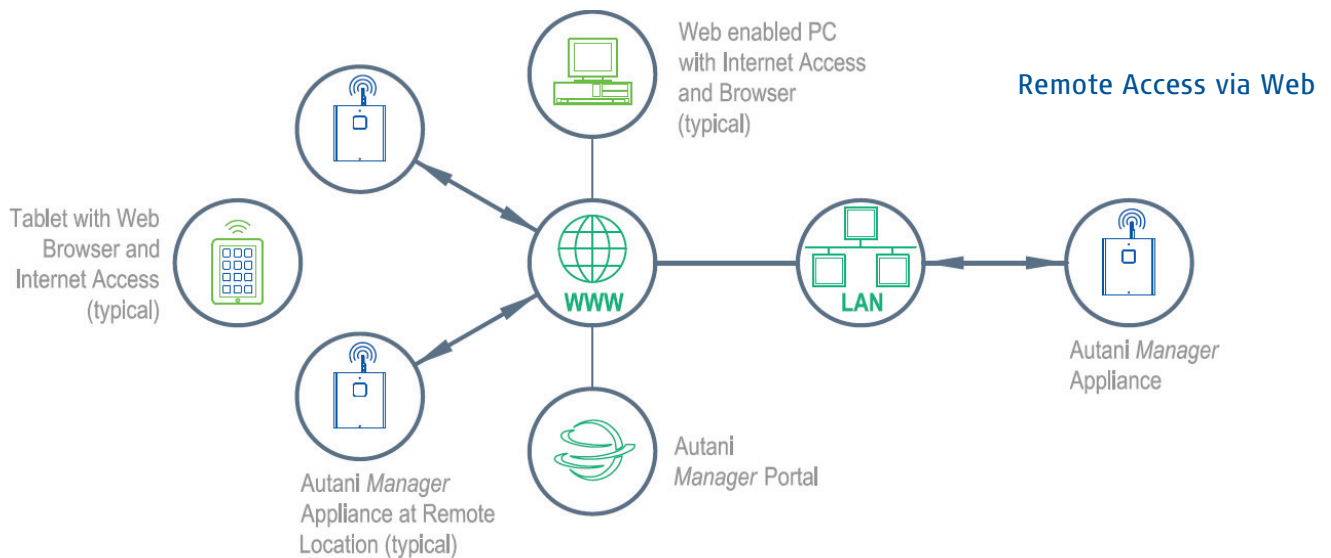
AUTANI MANAGER CONNECTIVITY:



Direct Connection



LAN Connection



Autani, LLC
TEL (443) 320-2233
FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

Autani's *EnergyCenter PRO* adds powerful, easy-to-use advanced automation features to *EnergyCenter* managed control systems. Using intuitive "drag-and-drop" visual programming, *EnergyCenter PRO* makes it easy to automate connected thermostats, lighting, plug loads, and fans with user-defined conditions and logic.

Would you like to automatically shed load when max demand hits a threshold? It's a snap with *EnergyCenter PRO*. Looking to have guest room thermostats set back when a window is open, but only if the lights are off? *PRO* does it with one rule for the entire building. What about setting your facility to "night" mode based on a switch at the front door? It's quick and easy with *EnergyCenter PRO*.

Building upon Autani's user friendly, browser-based *EnergyCenter* suite of software for the *Manager* appliance, *PRO* helps building owners, operators, and systems integrators increase the energy efficiency of facilities and maximize savings.

APPLICATIONS:

EnergyCenter PRO adds advanced automation features to Autani's intuitive, wirelessly networked family of control and energy management solutions.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Optional, advanced automation features for Autani *Manager* Appliances
- "Drag-and-drop" interface and visual programming makes automating energy efficiency a snap
- Events, schedules, and over-rides are triggered by user-definable conditions and logic
- Custom Rules take effect once when conditions are met, or during the entire time a set of conditions is present
- Monitored conditions include temperature, HVAC status, lighting state, contact inputs, and energy consumption
- Actions are applied to individual devices, groups of devices, or devices that share a location or group
- Assignable priorities determine how rules are processed in relation to schedules and calendar events
- User-definable system and email alerts for monitoring and notification
- **Designed & Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
 TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SYSTEM REQUIREMENTS:

- *EnergyCenter PRO* software requires an Autani *Manager* appliance running *EnergyCenter+ Software 2.2* or later.
- HVAC control requires one or more Autani wireless thermostats connected to a compatible heating and cooling system.
- Lighting control requires one or more *ARC* Series Room Controllers or *AFC* Fixture Controllers connected to a compatible load.
- Plug Load control requires one or more controllable devices connected to a compatible load.
- Fan control requires one or more controllable devices connected to a compatible load.
- Occupancy control requires at least one connected motion sensor.
- Metering and verification requires at least one connected Autani wireless meter such as the E50C2 or DTS/SMX Packaged Meter.

ORDERING INFORMATION:

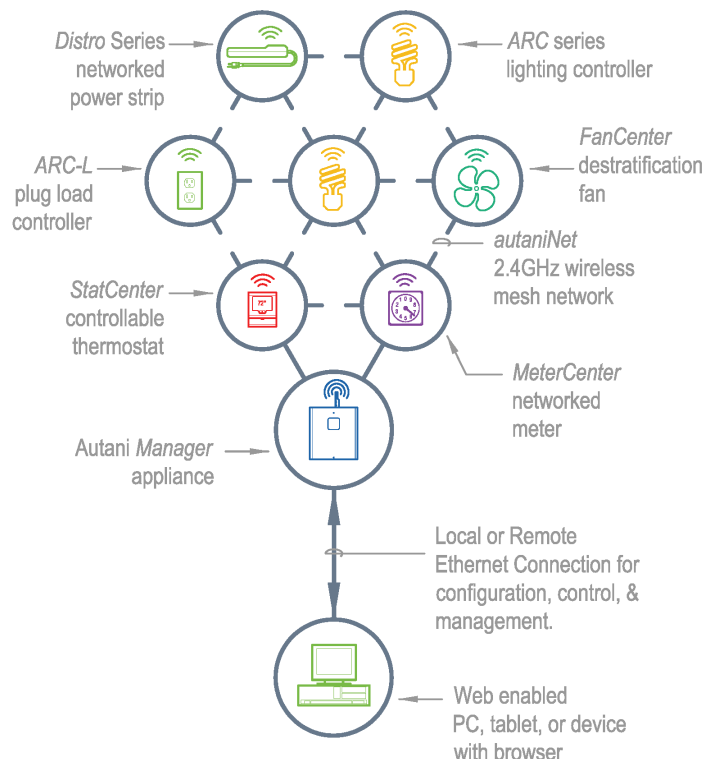
SKU	Description
Ao8-01-0150-10	Add EnergyCenter PRO Advanced Automation Tools to Autani <i>Manager</i> (35 device Manager)
Ao8-01-0150-09	Add EnergyCenter PRO Advanced Automation Tools to Autani <i>Manager</i> (100 device Manager)
Ao8-01-0150-08	Add EnergyCenter PRO Advanced Automation Tools to Autani <i>Manager</i> (200 device Manager)
Ao8-01-0150-07	Add EnergyCenter PRO Advanced Automation Tools to Autani <i>Manager</i> (400 device Manager)

The EnergyCenter Family

It all centers on energy management

Autani's *EnergyCenter* product line integrates lighting, climate control, fans, metering, and plug loads to provide a powerful integrated energy management solution. *LightCenter*, *StatCenter*, *FanCenter*, *MeterCenter*, and *PLUS* software share the Autani *Manager* appliance and operate as an integrated application.

EnergyCenter software communicates via the Autani *Manager* to lighting controllers, motion sensors, thermostats, fans, meters, and more using *autaniNet*, a secure wireless 2.4GHz communications network.



Autani, LLC
TEL (443) 320-2233
FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

Autani's *LightCenter* software optimizes lighting based on schedules, occupancy, natural lighting, demand response, and local input. Featuring ready access to energy use data, *LightCenter* makes it easy to evaluate system performance, provide measurement and verification data to utility companies, and optimize energy usage.

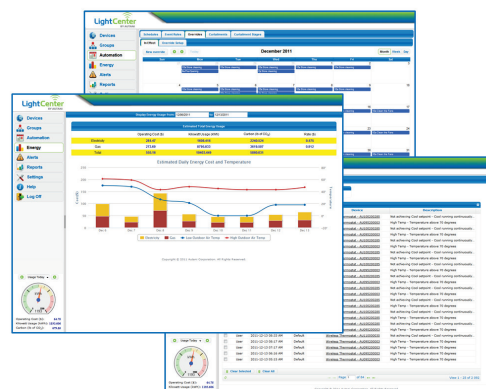
LightCenter features an easy-to-use web-based interface that provides local or remote access for programming, monitoring, and controlling the lighting for a facility or campus. *LightCenter* interfaces with Autani's complete line of wirelessly managed dimmed and switched lighting controllers, as well as MINI wired and wireless occupancy sensors. Many occupancy sensors and photocells manufactured by other leading manufacturers are also supported.

LightCenter is a member of the *EnergyCenter* family of integrated energy management hardware and software. *EnergyCenter* includes lighting, HVAC, metering, fan, plug load, and computer control.

APPLICATIONS:

Autani's LightCenter software is suitable for renovation, upgrade, and new construction projects.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Application software for Autani *Manager* appliance that provides remote and local lighting management
- Monitor and control lighting energy usage with up to the minute consumption and savings data represented through charts, graphs and reports
- Lighting control based on custom schedules, occupancy, light level, events, and demand response programs with prioritized load shedding
- Real-time alerting for user defined and system events via email or smart phone
- Integrated support for third party occupancy sensors and photocells
- Secure access prevents unauthorized users from logging into the system
- *autaniNet* secure wireless 2.4GHz communications with network devices
- **Designed & Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
 TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SYSTEM REQUIREMENTS:

- *LightCenter* software requires an Autani *Manager* appliance with installed Ethernet card and *autaniNet* wireless gateway.
- Lighting control requires one or more *ARC* Series Room Controllers or *AFC* Fixture Controllers connected to a compatible load.
- Occupancy control requires at least one connected motion sensor.
- *MINI* wireless sensors connect directly to the network. *MINI* wired and third party motion sensors connect via an *ARC* Room Controller.
- Daylight dimming requires one or more *AFC* Fixture Controllers connected to a compatible load and a 0-10VDC photocell.
- Modbus and custom interfaces for other automation systems are available.
- Web access requires Ethernet connectivity and a compatible device with a web browser. Access may vary based on software and services selected.

The EnergyCenter Family

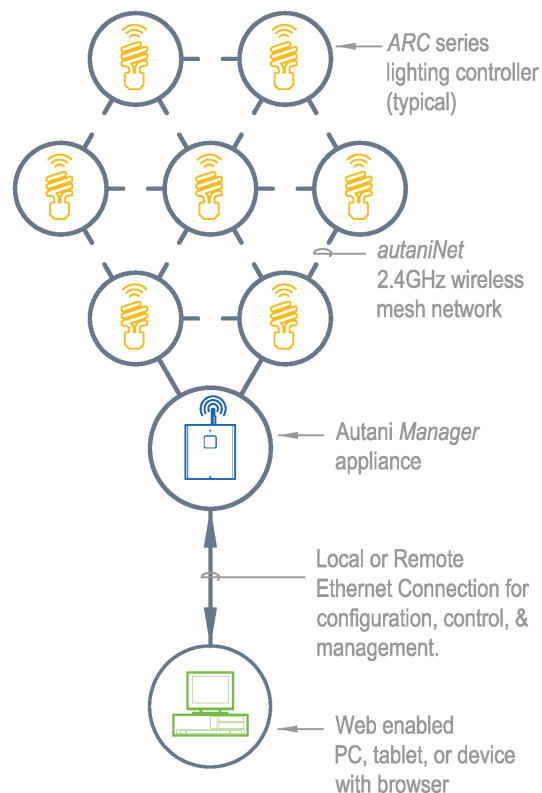
It all centers on energy management

Autani's *EnergyCenter* product line integrates lighting, climate control, fans, metering, and plug loads to provide a powerful integrated energy management solution. *LightCenter*, *StatCenter*, *FanCenter*, *MeterCenter*, and *PLUS* software share the Autani *Manager* appliance and operate as an integrated application.

EnergyCenter software communicates via the Autani *Manager* to lighting controllers, motion sensors, thermostats, fans, meters, and more using *autaniNet*, a secure wireless 2.4GHz communications network.

ORDERING INFORMATION:

SKU	Description
<i>EnergyCenter</i> Software includes <i>StatCenter</i> , <i>LightCenter</i> , <i>MeterCenter</i> , <i>FanCenter</i> , and <i>PLUS</i> Software. Autani <i>Manager</i> Appliance includes Ethernet and <i>autaniNet</i> wireless interfaces.	
A08-01-0147-11	Autani <i>Manager</i> with EnergyCenter Basic Software. <i>For up to 35 devices.</i>
A08-01-0147-12	Autani <i>Manager</i> with EnergyCenter Basic Software. <i>For up to 100 devices.</i>
A08-01-0147-14	Autani <i>Manager</i> with EnergyCenter Basic Software. <i>For up to 200 devices.</i>
A08-01-0147-02	Autani <i>Manager</i> with EnergyCenter Basic Software. <i>For up to 400 devices.</i>
Optional Accessories:	
A08-01-0150-06	Add Connect Tridium Niagara AX/ModBus interface to <i>Manager</i>



Autani, LLC
 TEL (443) 320-2233
 FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

Autani's *StatCenter* software provides web-based access for coordinated management of thermostats and control of temperature based on schedule, occupancy, and curtailment events. Featuring an easy to use web-based interface, *StatCenter* provides local or remote access for programming, monitoring, and controlling Autani wireless thermostats.

StatCenter software interfaces with Autani's *MINI* wired and wireless occupancy sensors as well as third party occupancy sensors connected via certain *LightCenter* Room Controllers.

Autani's *StatCenter* climate control and management software is an application for the Autani *Manager* appliance.

StatCenter is a member of the *EnergyCenter* family of integrated energy management hardware and software. *EnergyCenter* includes lighting, HVAC, metering, fan, plug load, and computer control.

APPLICATIONS:

Autani's StatCenter software is suitable for renovation, upgrade, and new construction projects.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Application software for Autani *Manager* appliance that provides remote and local HVAC management
- Monitor and control HVAC energy consumption with up to the minute consumption and savings data represented through charts, graphs, and reports
- Create custom schedules with events to control setpoints, mode, and fan settings
- Real-time alerting for user defined and system events via email or smart phone
- Occupancy based events and rules can be used to manage temperature based on space usage
- Multiple curtailment levels for demand response
- Secure access control, with limited range settings for manual thermostat keypad access
- Designed & Made in the USA

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SYSTEM REQUIREMENTS:

- *StatCenter* software requires an Autani *Manager* appliance with installed Ethernet card and *autaniNet* wireless gateway.
- HVAC control requires one or more Autani wireless thermostats connected to a compatible heating and cooling system.
- Occupancy control requires at least one connected motion sensor per thermostat. *MINI* wireless sensors connect directly to the network. *MINI* wired and third party motion sensors connect via an *ARC* Room Controller.
- Modbus and custom interfaces for other automation systems are available.
- Web access requires Ethernet connectivity and a compatible device with a web browser. Access may vary based on software and services selected.

ORDERING INFORMATION:

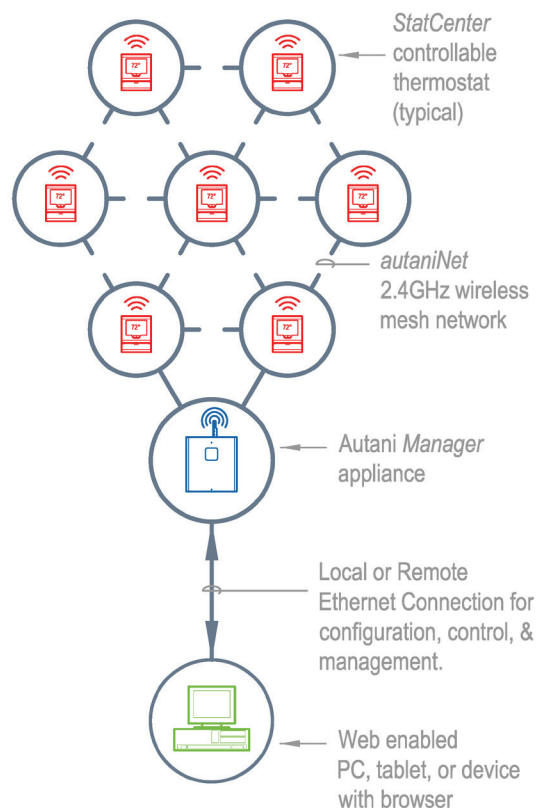
SKU	Description
<i>EnergyCenter</i> Software includes <i>StatCenter</i> , <i>LightCenter</i> , <i>MeterCenter</i> , <i>FanCenter</i> , and <i>PLUS</i> Software. Autani <i>Manager</i> Appliance includes Ethernet and <i>autaniNet</i> wireless interfaces.	
Ao8-01-0147-11	Autani <i>Manager</i> with EnergyCenter Basic Software. <i>For up to 35 devices.</i>
Ao8-01-0147-12	Autani <i>Manager</i> with EnergyCenter Basic Software. <i>For up to 100 devices.</i>
Ao8-01-0147-14	Autani <i>Manager</i> with EnergyCenter Basic Software. <i>For up to 200 devices.</i>
Ao8-01-0147-02	Autani <i>Manager</i> with EnergyCenter Basic Software. <i>For up to 400 devices.</i>
Optional Accessories:	
Ao8-01-0150-06	Add Connect Tridium Niagara AX/ ModBus interface to <i>Manager</i>

The EnergyCenter Family

It all centers on energy management

Autani's *EnergyCenter* product line integrates lighting, climate control, fans, metering, and plug loads to provide a powerful integrated energy management solution. *LightCenter*, *StatCenter*, *FanCenter*, *MeterCenter*, and *PLUS* software share the Autani *Manager* appliance and operate as an integrated application.

EnergyCenter software communicates via the Autani *Manager* to lighting controllers, motion sensors, thermostats, fans, meters, and more using *autaniNet*, a secure wireless 2.4GHz communications network.



Autani, LLC
 TEL (443) 320-2233
 FAX (240) 755-0092
www.autani.com



DESCRIPTION:

Autani's *MeterCenter* software provides local or remote access for configuring, monitoring, and analyzing energy consumption data reported by Autani's wirelessly managed electric meters throughout a facility or campus. Featuring an easy to use web-based interface, *MeterCenter* delivers real-time information that can be used for billing, demand response planning, verification, and adjustment of energy management strategies.

With *MeterCenter* wireless metering and verification software, it is easy to monitor power usage in real time, and to analyze usage for selected time periods and in specific areas. Multiple meters can be wirelessly networked throughout a complex, building, or campus.

MeterCenter is a member of the *EnergyCenter* family of integrated energy management hardware and software, and can add real-time energy monitoring to an Autani solution that includes lighting, HVAC, fans, and plug loads.

APPLICATIONS:

Autani's StatCenter software is suitable for renovation, upgrade, and new construction projects.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Application software for Autani *Manager* appliance that provides remote and local access to metering and verification of energy usage
- Monitor and verify energy consumption with up to the minute data represented through charts, graphs, and reports
- Reporting is available in user defined groups as well as per meter for targeted analysis of consumption and cost
- Real-time alerting for user defined and system events via email or smart phone
- Provides estimated and actual data on daily cost, energy consumption, and pounds of CO₂ generated by energy consumption
- Secure access prevents unauthorized users from logging into the system
- *autaniNet* secure wireless 2.4GHz communications with network devices
- **Designed & Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SYSTEM REQUIREMENTS:

- *MeterCenter* software requires an Autani Manager appliance with installed Ethernet card and *autaniNet* wireless gateway.
- Metering and verification requires at least one connected Autani wireless meter, such as the E5oC2 Packaged Meter.
- Cost and CO2 estimates are based upon user-provided input.
- Modbus and custom interfaces for other automation systems are available.
- Web access requires Ethernet connectivity and a compatible device with a web browser. Access may vary based on software and services selected.

ORDERING INFORMATION:

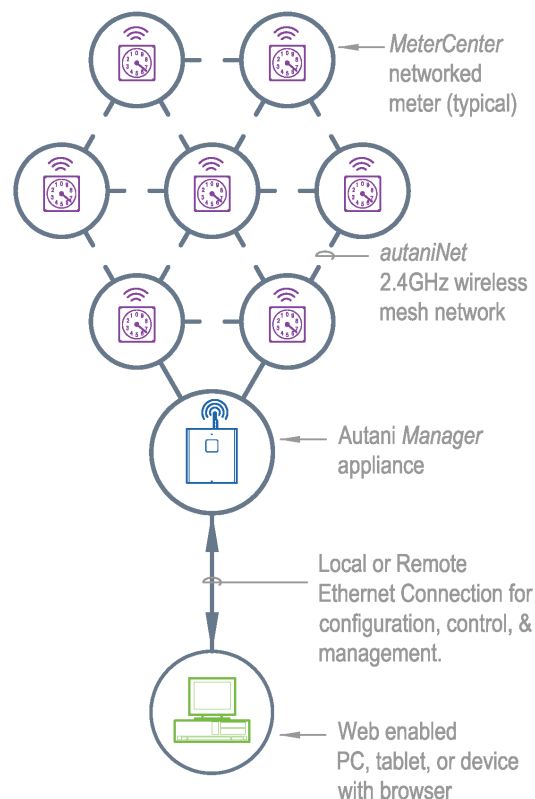
SKU	Description
<i>EnergyCenter</i> Software includes <i>StatCenter</i> , <i>LightCenter</i> , <i>MeterCenter</i> , <i>FanCenter</i> , and <i>PLUS</i> Software. Autani Manager Appliance includes Ethernet and <i>autaniNet</i> wireless interfaces.	
A08-01-0147-11	Autani Manager with EnergyCenter Basic Software. For up to 35 devices.
A08-01-0147-12	Autani Manager with EnergyCenter Basic Software. For up to 100 devices.
A08-01-0147-14	Autani Manager with EnergyCenter Basic Software. For up to 200 devices.
A08-01-0147-02	Autani Manager with EnergyCenter Basic Software. For up to 400 devices.

The EnergyCenter Family

It all centers on energy management

Autani's *EnergyCenter* product line integrates lighting, climate control, fans, metering, and plug loads to provide a powerful integrated energy management solution. *LightCenter*, *StatCenter*, *FanCenter*, *MeterCenter*, and *PLUS* software share the Autani Manager appliance and operate as an integrated application.

EnergyCenter software communicates via the Autani Manager to lighting controllers, motion sensors, thermostats, fans, meters, and more using *autaniNet*, a secure wireless 2.4GHz communications network.



Autani, LLC
TEL (443) 320-2233
FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

PLUS software is a plug load and PC power management application for the Autani *Manager* appliance that features an easy to use web-based interface. *PLUS* provides local or remote access for programming, monitoring, and controlling connected loads for a facility or campus.

When used with Autani load controllers, controllable power strips, and networked PCs running *EMC* client software, *PLUS* optimizes the efficiency of controlled devices based on schedules, occupancy, demand response, and local input.

Featuring ready access to energy consumption data, *PLUS* makes it easy to evaluate system performance, provide measurement and verification data to utility companies, and optimize energy usage.

PLUS is a member of the *EnergyCenter* family of integrated energy management hardware and software. *EnergyCenter* includes lighting, HVAC, metering, fan, plug load, and computer control.

APPLICATIONS:

Autani's PLUS software is suitable for renovation, upgrade, and new construction projects.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Application software for Autani *Manager* appliance that provides remote and local power management for plug loads and PCs
- Monitor and control energy usage with up to the minute consumption and savings data represented through charts, graphs and reports
- Plug load and PC power management based on custom schedules, occupancy, light level, events, and demand response programs with prioritized load shedding
- Real-time alerting for user defined and system events via email or smart phone
- Integrated support for third party occupancy sensors
- Secure access prevents unauthorized users from logging into the system
- *autaniNet* secure wireless 2.4GHz communications with network devices
- **Designed & Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
 TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SYSTEM REQUIREMENTS:

- *PLUS* software requires an Autani *Manager* appliance with installed Ethernet card and *autaniNet* wireless gateway.
- Plug load control requires one or more controllable devices connected to a compatible load.
- Computer control requires an appropriately configured Windows PC running *EMC* client software connected via Ethernet to an Autani *Manager* running *PLUS* software.
- Occupancy control requires at least one connected motion sensor. *MINI* wireless sensors connect directly to the network. *MINI* wired and third party motion sensors connect via an *ARC* Room Controller.
- Modbus and custom interfaces for other automation systems are available.
- Web access requires Ethernet connectivity and a compatible device with a web browser. Access may vary based on software and services selected.

The EnergyCenter Family

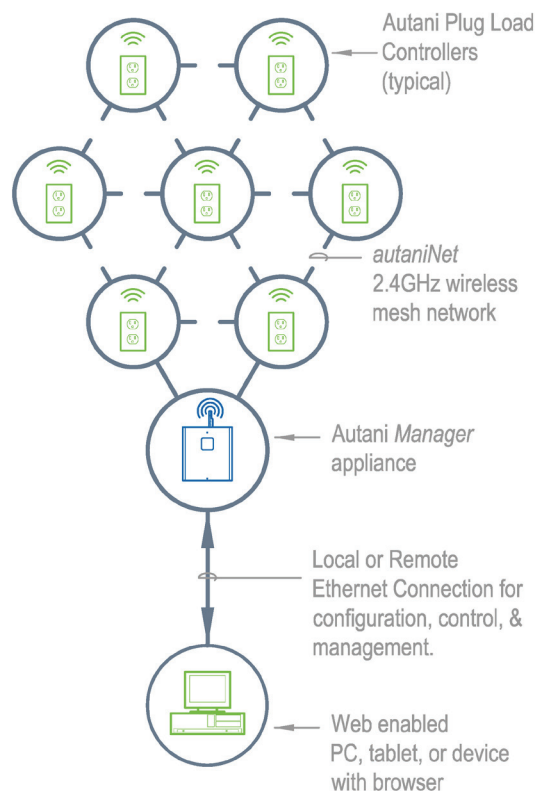
It all centers on energy management

Autani's *EnergyCenter* product line integrates lighting, climate control, fans, metering, and plug loads to provide a powerful integrated energy management solution. *LightCenter*, *StatCenter*, *FanCenter*, *MeterCenter*, and *PLUS* software share the Autani *Manager* appliance and operate as an integrated application.

EnergyCenter software communicates via the Autani *Manager* to lighting controllers, motion sensors, thermostats, fans, meters, and more using *autaniNet*, a secure wireless 2.4GHz communications network.

ORDERING INFORMATION:

SKU	Description
<i>EnergyCenter</i> Software includes <i>StatCenter</i> , <i>LightCenter</i> , <i>MeterCenter</i> , <i>FanCenter</i> , and <i>PLUS</i> Software. Autani <i>Manager</i> Appliance includes Ethernet and <i>autaniNet</i> wireless interfaces.	
A08-01-0147-11	Autani <i>Manager</i> with EnergyCenter Basic Software. <i>For up to 35 devices.</i>
A08-01-0147-12	Autani <i>Manager</i> with EnergyCenter Basic Software. <i>For up to 100 devices.</i>
A08-01-0147-14	Autani <i>Manager</i> with EnergyCenter Basic Software. <i>For up to 200 devices.</i>
A08-01-0147-02	Autani <i>Manager</i> with EnergyCenter Basic Software. <i>For up to 400 devices.</i>
Optional Accessories:	
A08-01-0150-06	Add Connect Tridium Niagara AX/ModBus interface to <i>Manager</i>



Autani, LLC
 TEL (443) 320-2233
 FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

Autani's *FanCenter* software manages the speed, direction, and run-time of destratification fans based upon schedules and demand response requests. The easy to use web-based interface provides local or remote fan management for a facility or campus.

In cold weather, destratification fans redirect hot air from the ceiling to the floor, recycling existing heat and reducing energy consumption. In moderate or warm weather, destratification fans reduce temperature differentials within the space and increase the efficiency of HVAC systems.

FanCenter software provides control of selected destratification fans using schedules, occupancy data, and local input. Featuring ready access to energy use data, *FanCenter* makes it easy to evaluate and optimize system performance.

FanCenter is a member of the *EnergyCenter* family of integrated energy management hardware and software. *EnergyCenter* includes lighting, HVAC, metering, fan, plug load, and computer control.

APPLICATIONS:

FanCenter is a managed system of thermal destratification fans that reduces energy consumption by increasing the efficiency of heating and cooling systems. It is suitable for renovation, upgrade, and new construction projects.

- Warehouse & Industrial Facilities
- Retail & Grocery Stores
- Gymnasiums & Auditoriums
- Hospitality Spaces
- Transportation Terminals



FEATURES:

- Application software for Autani *Manager* appliance that provides remote and local management of destratification fans
- Destratification and Thermal Equalization can reduce energy consumption up to 30% or more
- Control and monitoring of speed, direction, and run time of selected Airius Air Pear products
- Scheduled reversals of fan motors can be used to clear obstructions and reduce accumulation on controlled fans
- Speed control provides appropriate air velocity for specific times, locations, and events
- Real-time alerting for user defined and system events via email or smart phone
- Secure access prevents unauthorized users from logging into the system
- *autaniNet* secure wireless 2.4GHz communications with network devices
- *EnergyCenter* products operate independently or as an integrated solution
- **Designed & Made in the USA**

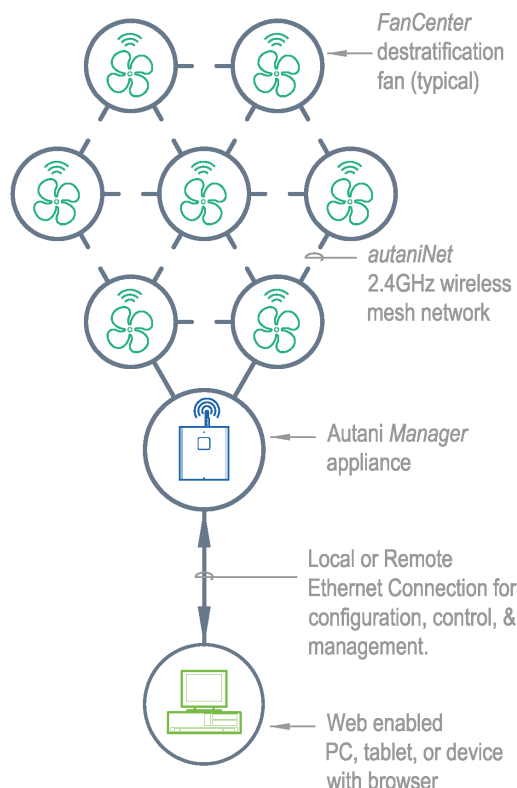
Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SYSTEM REQUIREMENTS:

- *FanCenter* software requires an Autani *Manager* appliance with installed Ethernet card and *autaniNet* wireless gateway.
- Fan control requires one or more compatible destratification fans with *autaniNet* capability.
- Occupancy control requires at least one connected motion sensor. *MINI* wireless sensors connect directly to the network. *MINI* wired and third party motion sensors connect via an *ARC* Room Controller.
- Modbus and custom interfaces for other automation systems are available.
- Web access requires Ethernet connectivity and a compatible device with a web browser. Access may vary based on software and services selected.



ORDERING INFORMATION:

SKU	Description
<i>EnergyCenter</i> Software includes <i>StatCenter</i> , <i>LightCenter</i> , <i>MeterCenter</i> , <i>FanCenter</i> , and <i>PLUS</i> Software. Autani <i>Manager</i> Appliance includes Ethernet and <i>autaniNet</i> wireless interfaces.	
A08-01-0147-11	Autani <i>Manager</i> with EnergyCenter Basic Software. <i>For up to 35 devices.</i>
A08-01-0147-12	Autani <i>Manager</i> with EnergyCenter Basic Software. <i>For up to 100 devices.</i>
A08-01-0147-14	Autani <i>Manager</i> with EnergyCenter Basic Software. <i>For up to 200 devices.</i>
A08-01-0147-02	Autani <i>Manager</i> with EnergyCenter Basic Software. <i>For up to 400 devices.</i>
A08-01-0147-10	Autani <i>Manager</i> Appliance with FanCenter Software and wired serial communications interface (does not include <i>autaniNet</i> wireless)
Optional Accessories:	
A08-01-0150-06	Add Connect Tridium Niagara AX/ModBus interface to Autani <i>Manager</i> Appliance

The EnergyCenter Family

It all centers on energy management

Autani's *EnergyCenter* product line integrates lighting, climate control, fans, metering, and plug loads to provide a powerful integrated energy management solution. *LightCenter*, *StatCenter*, *FanCenter*, *MeterCenter*, and *PLUS* software share the Autani *Manager* appliance and operate as an integrated application.

EnergyCenter software communicates via the Autani *Manager* to lighting controllers, motion sensors, thermostats, fans, meters, and more using *autaniNet*, a secure wireless 2.4GHz communications network.



Autani, LLC
 TEL (443) 320-2233
 FAX (240) 755-0092
www.autani.com



DESCRIPTION:

Autani's *Connect* Building Automation System software provides an interface between BACnet or Tridium's NiagaraAX platform and Autani's *EnergyCenter* products, with integrated support for lighting, thermostats, controllable outlets, fans, and meters. A self-configuring Modbus register set can be used for lighting integration.

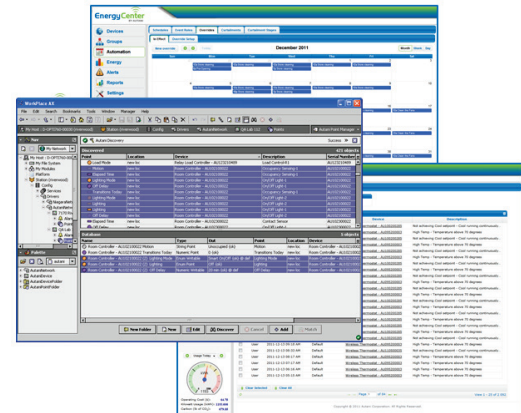
Consisting of a software license for the Autani *Manager* appliance and a driver for Tridium platforms, *Connect* allows a Tridium controller using the NiagaraAX platform—such as a JACE—to control and monitor selected devices connected to an Autani *Manager*. Each device is exposed to Tridium as a series of control points. For example, three points—Lighting, Mode, and Off Delay—might be added for a light attached to an Autani *ARC* Room Controller. The same features are available via a BACnet/IP interface.

Using *Connect*, integrators can install Autani systems alongside other third-party control systems and manage all of the equipment from a single, centralized interface.

APPLICATIONS:

Autani's Connect software provides a BACnet/IP interface, Tridium NiagaraAX driver, and a Modbus TCP interface for connecting Autani's EnergyCenter products with third party Building Automation Systems (BAS).

- Private & Open Offices
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



Powered by
niagara^{AX}
FRAMEWORK

FEATURES:

- BACnet/IP: Control points for thermostats, lights, sensors, fans, and plug loads
- Tridium NiagaraAX framework driver: Control points for thermostats, lights, sensors, fans, and plug loads
- Modbus TCP interfaces: On/Off lighting control and monitoring; self-configuring interface generates address for connected devices
- *EnergyCenter* devices are controlled by the BAS via *Connect* and *EnergyCenter* Software on a last action basis
- Monitoring and metering functions of *EnergyCenter* remain active with up-to-the-minute energy consumption and savings data
- Rugged Autani *Manager* appliance with *Connect* acts as a link between wireless *autaniNet* and wired BACnet, Tridium or ModBus systems
- Easy to deploy software option for new or previously installed *EnergyCenter* Systems
- **Designed and Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SYSTEM REQUIREMENTS:

- *Connect* requires Autani *Manager* appliance with installed Ethernet card, *autaniNet* wireless interface, and *EnergyCenter* software.
- Plug load control requires one or more controllable devices connected to a compatible load.
- Lighting control requires one or more *ARC* Series Room Controllers or *AFC* Fixture Controllers connected to a compatible load.
- Occupancy monitoring by a BAS requires at least one connected motion sensor.
- *MINI* wireless sensors connect directly to the network. *MINI* wired and third party motion sensors connect via an *ARC* Room Controller.
- *Connect* provides BAS system access to *autaniNet* devices on an Autani *Manager* appliance. Configuration of the connected BAS system may be required.

The EnergyCenter Family

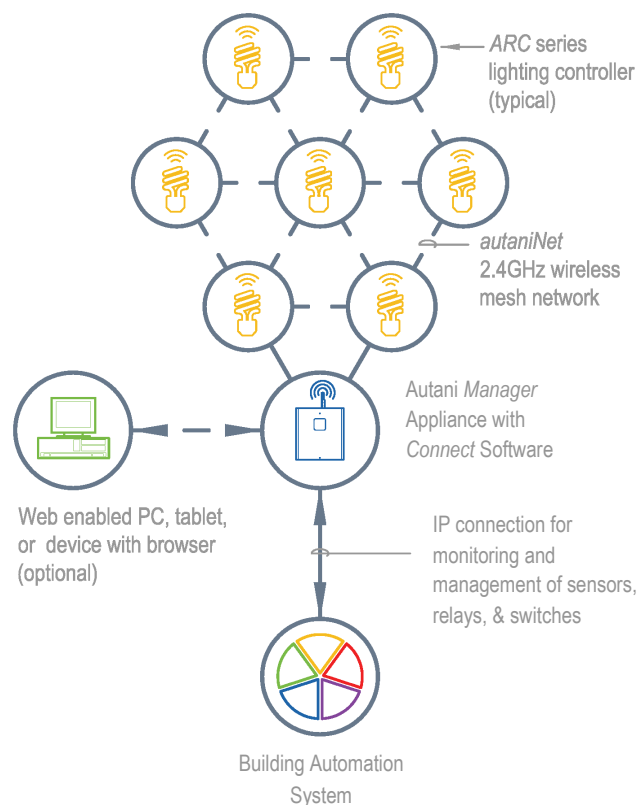
It all centers on energy management

Autani's *EnergyCenter* product line integrates lighting, climate control, fans, metering, and plug loads to provide a powerful integrated energy management solution. *LightCenter*, *StatCenter*, *FanCenter*, *MeterCenter*, and *PLUS* software share the Autani *Manager* appliance and operate as an integrated application.

EnergyCenter software communicates via the Autani *Manager* to lighting controllers, motion sensors, thermostats, fans, meters, and more using *autaniNet*, a secure wireless 2.4GHz communications network.

ORDERING INFORMATION:

SKU	Description
Ao8-01-0150-06	Add Connect Building Automation System interface software to Autani <i>Manager</i>
Optional Accessories:	
Ao8-01-0147-11	Autani <i>Manager</i> with EnergyCenter Basic Software. <i>For up to 35 devices.</i>
Ao8-01-0147-12	Autani <i>Manager</i> with EnergyCenter Basic Software. <i>For up to 100 devices.</i>
Ao8-01-0147-14	Autani <i>Manager</i> with EnergyCenter Basic Software. <i>For up to 200 devices.</i>
Ao8-01-0147-02	Autani <i>Manager</i> with EnergyCenter Basic Software. <i>For up to 400 devices.</i>



Autani, LLC
TEL (443) 320-2233
FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

Autani's *Portfolio Manager* is a hosted software solution for managing the temperature, lighting, and energy consumption of multi-site facilities. Using a secure, web-based interface that connects two or more *EnergyCenter* systems, *Portfolio Manager* directs schedules, alerts, and demand response events across multiple premises.

Portfolio Manager offers owners and facility personnel a "dashboard" of system-wide energy performance, operations and conditions, as well as immediate visibility of alarms by location.

Portfolio Manager provides global, remote access for programming, monitoring, and managing Autani's innovative family of wirelessly controllable products including thermostats, lighting controls, destratification fans, and meters.

When used with Autani's *EnergyCenter* products, *Portfolio Manager* coordinates management and optimization of connected systems based on schedule, occupancy, natural lighting, and demand response.

APPLICATIONS:

Portfolio Manager provides remote, centralized facility management of climate control, lighting, metering systems, and energy consumption for multiple sites.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Access, programming, and control of multiple facilities from a single web-based interface
- Customizable, portfolio-wide demand response capability with multiple levels of setback
- Collected, real-time alert notification and management for all connected sites
- Occupancy and event based rules to manage temperature and lighting
- Custom scheduling to control setpoints, mode, and fan settings for HVAC control
- Schedules, events, and rules can be applied to all or portions of selected sites in the portfolio
- Up-to-the-minute energy consumption and savings data for a portfolio of facilities in graphs, charts and reports
- Secure access to controls, with limited range settings for manual thermostat keypad access
- Designed & Made in the USA

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
 TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



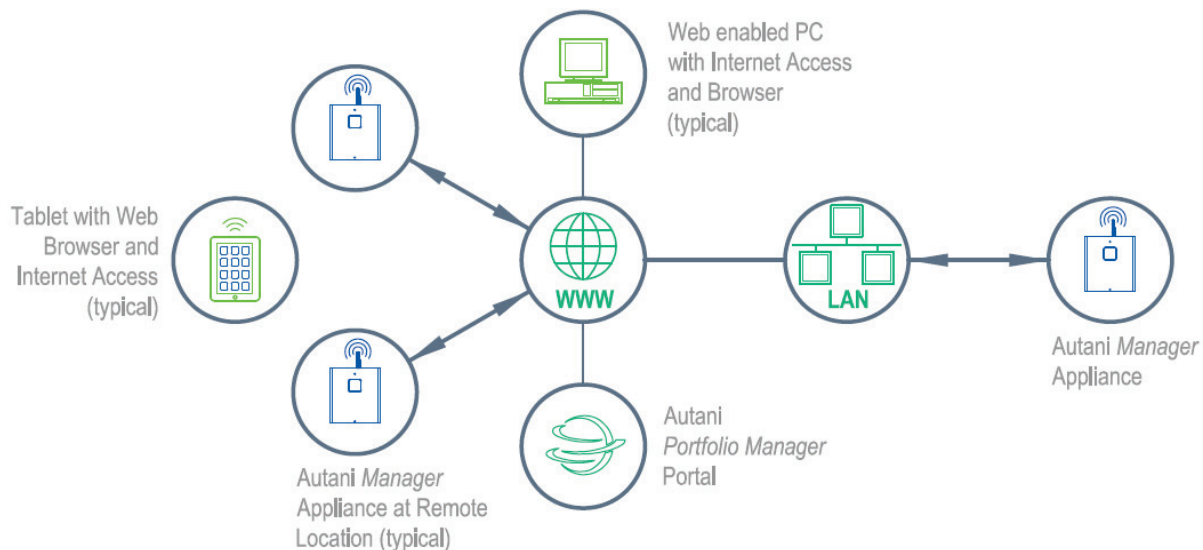
SYSTEM REQUIREMENTS:

- *Portfolio Manager* software requires an internet connection, hosted web service, and an Autani *Manager* appliance with installed Ethernet card and *autaniNet* wireless gateway.
- Web access requires Ethernet connectivity and a compatible device with a web browser. Access may vary based on software and services selected.
- HVAC control requires one or more Autani wireless thermostats connected to a compatible heating and cooling system.
- Lighting control requires one or more *ARC* Series Room Controllers connected to a compatible load.
- Occupancy control requires at least one connected motion sensor per device or group.

ORDERING INFORMATION:

SKU	Description
<i>Portfolio Manager</i> subscriptions are per Autani <i>Manager</i> .	
A10-01-0330-07	Portfolio Manager web-based service for up to (10) devices, 1-year
A10-01-0330-08	Portfolio Manager web-based service for (11) to (100) devices, 1-year
A10-01-0330-09	Portfolio Manager web-based service for (101+) devices, 1-year
A10-01-0330-10	Portfolio Manager web-based service for up to (10) devices, 3-year
A10-01-0330-11	Portfolio Manager web-based service for (11) to (100) devices, 3-year
A10-01-0330-12	Portfolio Manager web-based service for (101+) devices, 3-year

PORTFOLIO MANAGER CONNECTIVITY:



Autani, LLC
 TEL (443) 320-2233
 FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

Autani's *Access Manager* is a hosted software solution for monitoring and remotely accessing one or more *EnergyCenter* systems with Internet connectivity. *Access Manager* allows the user to monitor temperature, lighting, energy consumption, and system status while providing a secure, remote access portal.

Access Manager offers owners and facility personnel a "dashboard" of system-wide energy performance, operations and conditions, as well as immediate visibility of alarms by location.

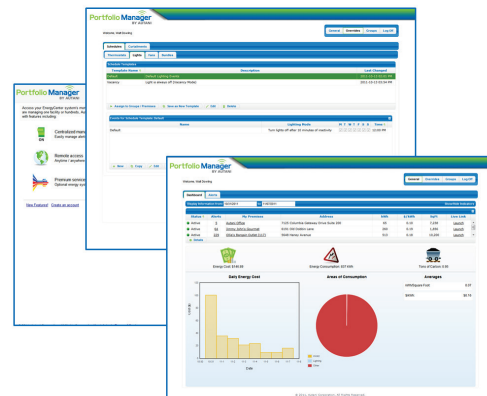
Access Manager provides global, remote access for monitoring and managing Autani's innovative family of wirelessly controllable products including thermostats, lighting controls, destratification fans, and meters.

When used with Autani's *EnergyCenter* products, *Access Manager* coordinates management and optimization of connected systems based on schedule, occupancy, natural lighting, and demand response.

APPLICATIONS:

Access Manager provides remote, centralized access and monitoring of climate control, lighting, metering systems, and energy consumption for multiple sites.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Access to, and monitoring of, one or more facilities from a single web-based interface
- Remote access launch point for one or more sites from an easy to use, web-based portal
- Collected, real-time alert notification and management for all connected sites
- Up-to-the-minute energy consumption and savings data for a portfolio of facilities in graphs, charts and reports
- Intuitive, browser-based interface can be accessed by any connected PC, tablet, or other browser-equipped device
- Remote access to occupancy and event based rules to manage temperature and lighting
- Remote access to custom scheduling for control of setpoints, mode, and fan settings for HVAC control
- **Designed & Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
 TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



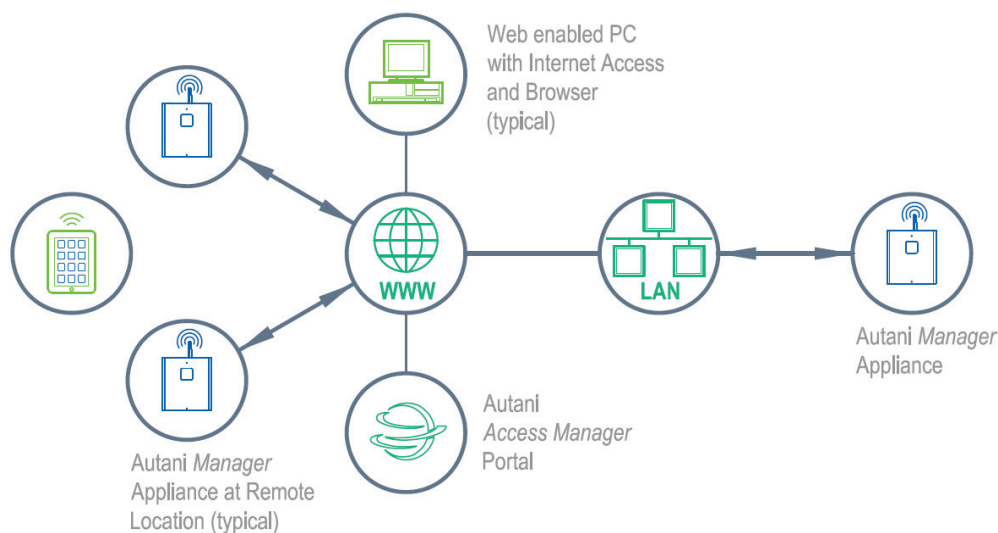
SYSTEM REQUIREMENTS:

- *Access Manager* software requires an internet connection, hosted web service, and an Autani *Manager* appliance with installed Ethernet card and *autaniNet* wireless gateway.
- Web access requires Ethernet connectivity and a compatible device with a web browser. Access may vary based on software and services selected.
- HVAC control requires one or more Autani wireless thermostats connected to a compatible heating and cooling system.
- Lighting control requires one or more *ARC* Series Room Controllers connected to a compatible load.
- Occupancy control requires at least one connected motion sensor per device or group.

ORDERING INFORMATION:

SKU	Description
A10-01-0330-27	Access Manager web-based service for up to (10) devices, 1-year subscription, per Autani <i>Manager</i>
A10-01-0330-28	Access Manager web-based service for (11) to (100) devices, 1-year subscription, per Autani <i>Manager</i>
A10-01-0330-29	Access Manager web-based service for (101+) devices, 1-year subscription, per Autani <i>Manager</i>
A10-01-0330-30	Access Manager web-based service for up to (10) devices, 3-year subscription, per Autani <i>Manager</i>
A10-01-0330-31	Access Manager web-based service for (11) to (100) devices, 3-year subscription, per Autani <i>Manager</i>
A10-01-0330-32	Access Manager web-based service for (101+) devices, 3-year subscription, per Autani <i>Manager</i>

ACCESS MANAGER CONNECTIVITY:



Autani, LLC
 TEL (443) 320-2233
 FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

The Autani *e>pod* lighting control system is a networked, room-based suite of products to power, manage, and control interior LED lighting fixtures. Simple to install, each *e>pod* room consists of an *e>panel* controller, a structured wiring system, and LED lighting fixtures with *e>drive* low voltage drivers. By reducing or eliminating line voltage wiring to power and control LED lighting fixtures, *e>pod* simplifies installation and reduces the cost of implementing LED lighting solutions.

e>panel controllers support up to (8) zones of LED lighting per room and are compatible with a variety of widely available wired or self-powered wireless switches, occupancy sensors, and daylighting sensors.

Rooms can operate as stand-alone systems, integrate with a BAS system, or join an Autani *EnergyCenter* wired or wireless control network as part of a facility-wide integrated control system that can include wirelessly networked plug loads, line voltage lighting, thermostats, meters, and destratification fans.

APPLICATIONS:

e>pod is suitable for renovation, upgrade, and new construction projects.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Distributed, low voltage system eliminates line voltage wiring for power and control of LED lighting
- Modular design is scalable and easy to install
- Structured wiring between devices with keyed connectors makes installation a snap
- Stand-alone or networked operation with optional BAS integration or wired/ wireless connectivity to Autani *EnergyCenter* systems
- (8) zones of LED lighting control with available driver capacities up to 1.2A
- Available "drop in" *e>panel* controller and power supply configuration for standard ceiling grids saves room in the electrical closet
- Supports wired or self-powered wireless switches and sensors
- Embedded Daylighting capabilities with an infinite number of target light levels
- Occupancy or vacancy modes with connectivity to Autani *MINI* or selected 24VDC sensors
- **Designed & Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



e>panel CONTROLLER:

An *e>panel* controller is installed in each room, powered by one or more line voltage circuits (120/277VAC). Wiring is run from the *e>panel* to each LED lighting fixture, providing power and control in a single, low voltage cable. Each *e>panel* powers and controls up to (8) zones of dimmed or switched LED lighting, and includes support for local switches, occupancy, and daylighting sensors.

Daylighting targets and occupancy/ vacancy behavior are definable per output. *e>panels* can be configured and operated as stand-alone room control systems, or they can be networked as the building blocks of a scalable, facility-wide lighting management system.

e>drive LED DRIVERS:

e>drive LED drivers are distributed at each lighting fixture, powered and controlled via structured wiring from the *e>panel*/controller.

Available in configurations up to 1.2 amps, *e>drive* LED drivers provide constant current control of LED arrays. *e>drives* are available for a variety of constant-current LED arrays, and do not restrict the fixture selection of *e>pod* users to a single manufacturer or fixture type.

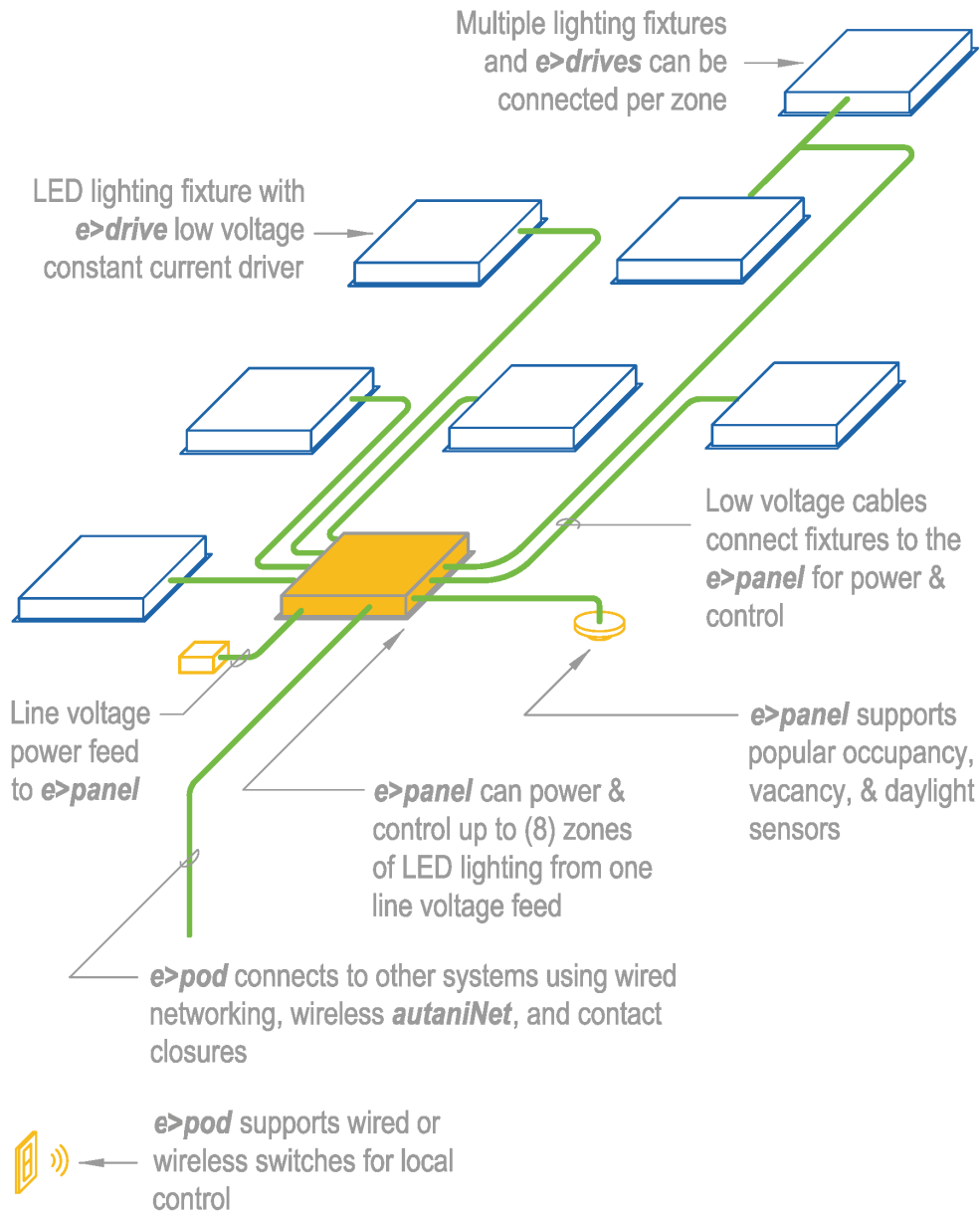
SWITCHES & SENSORS:

e>pod supports wired or self-powered (EnOcean) wireless switches and sensors from a variety of manufacturers for local control. Each *e>panel* controller integrates (8) assignable, configurable inputs for local switches as well as inputs for an occupancy/ vacancy sensor, daylight sensor, and contact closures.

ORDERING INFORMATION:

SKU	Description
e>panel Controllers:	
A02-01-0155-02	<i>e>panel</i> /8-zone controller for standard ceiling grids. Dual, isolated PSU's.
e>drive LED Drivers:	
A02-01-0156-01	<i>e>drive</i> 350mA/ 20W Constant Current LED Driver for <i>e>pod</i>
A02-01-0156-02	<i>e>drive</i> 500mA/ 28W Constant Current LED Driver for <i>e>pod</i>
A02-01-0156-03	<i>e>drive</i> 700mA/ 39W Constant Current LED Driver for <i>e>pod</i>
A02-01-0156-04	<i>e>drive</i> 1.0A/ 56W Constant Current LED Driver for <i>e>pod</i>
A02-01-0156-05	<i>e>drive</i> 1.2A/ 67W Constant Current LED Driver for <i>e>pod</i>
e>pod Structured Cabling:	
A02-01-0159-01	10' <i>e>pod</i> power & control cable
A02-01-0159-02	20' <i>e>pod</i> power & control cable
A02-01-0159-03	30' <i>e>pod</i> power & control cable
A02-01-0159-04	40' <i>e>pod</i> power & control cable
A02-01-0159-05	50' <i>e>pod</i> power & control cable
A02-01-0160-01	Extension, <i>e>drive</i> to fixture, 7'
A02-01-0161-01	Y-Cable, Power to dual <i>e>drives</i>
A02-01-0162-01	<i>e>pod</i> Motion or Photo Sensor Cable, (connector to bare ends)
A02-01-0163-01	<i>e>pod</i> Contact Input Cable, (connector to bare ends)
e>pod Self-Powered Wireless Switches:	
A02-22-0220-01	<i>e>pod</i> single wireless switch, white, with 1-Gang Decorator faceplate
A02-22-0221-01	<i>e>pod</i> dual wireless switch, white, with 2-Gang faceplate

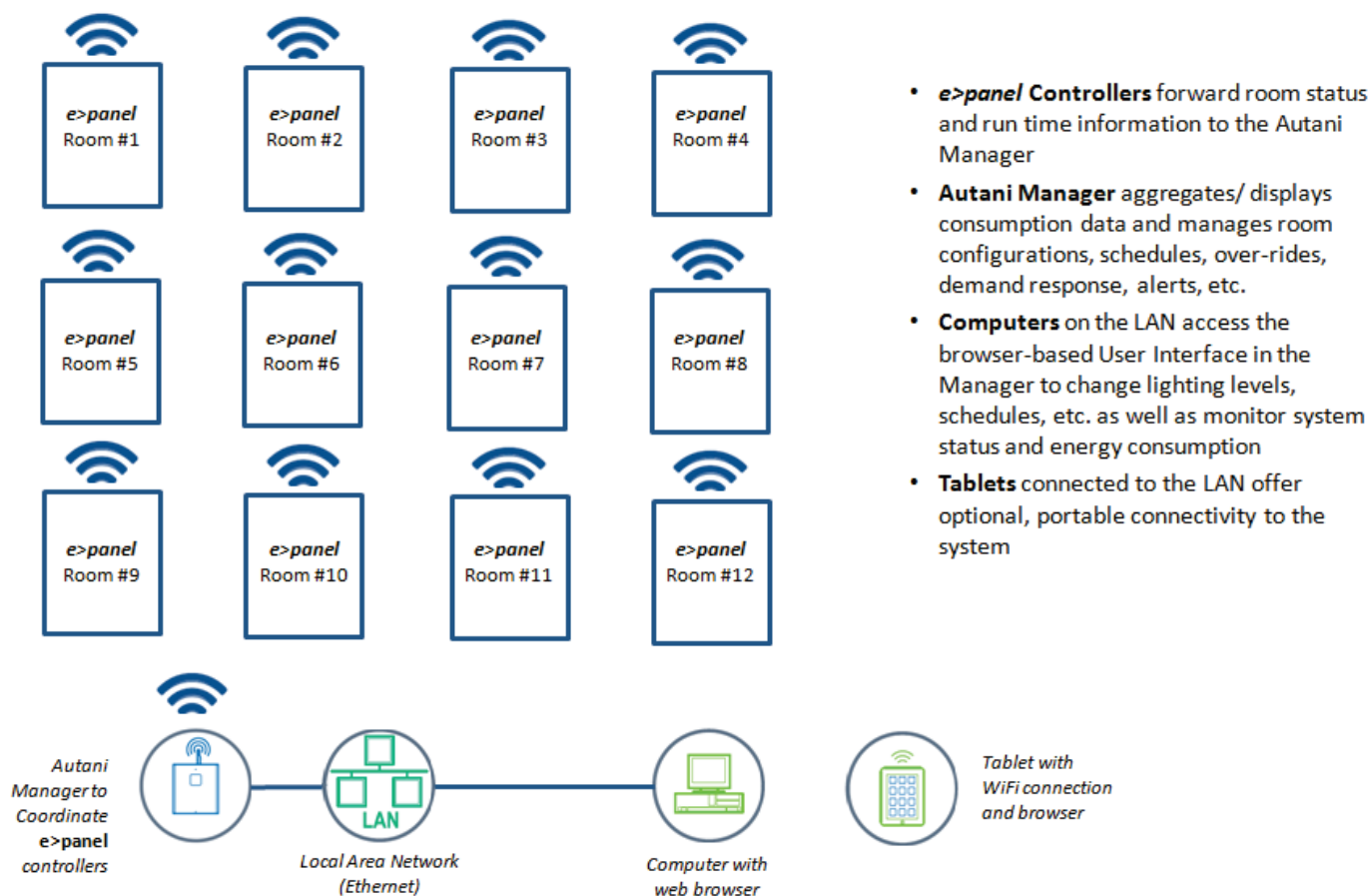
ROOM CONTROL ONE-LINE DIAGRAM:



Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com

WIRELESS NETWORKING ONE-LINE DIAGRAM:



CONNECTIVITY:

e>panel controllers support direct connection to a PC for configuration as stand-alone control systems as well as wired connectivity to, and management by, industry standard BAS systems.

Optionally, controllers can be connected to an Autani Manager appliance with EnergyCenter+ software by a wired or wireless autaniNet network for configuration, scheduling, control, and management by any device with a web browser.

ADDITIONAL OPTIONS:

Optional wireless connectivity to an Autani Manager with EnergyCenter+ software is shown (above). Additional options include:

- Direct connection per e>panel to a PC for configuration as stand-alone control system
- Wired network connection to, and management by, industry standard BAS systems
- Wired connection to an Autani Manager with EnergyCenter software
- TCP/IP connection to Tridium Niagara AX Platform using Autani's Connect Interface software

DESCRIPTION:

The Autani *WRC Wireless Relay Controller* is a wirelessly managed 120/277VAC Plenum Rated area controller that supports dimming and daylight harvesting. The *WRC* provides managed control of up to two independent switched circuits, supporting the second circuit via an external power pack.

Autani's *WRC* line of wireless controllers is designed to support the 2013 Title 24 requirements, providing multiple circuits of switching, dimming and daylight harvesting, time switching, and support for both occupancy and vacancy controls.

The *WRC* is designed to replace a standard power pack in lighting control circuits and can be operated in stand-alone mode (as a standard switched power pack) or as part of an *EnergyCenter* Integrated Lighting Management System using the *autaniNet* wireless mesh network.

As a network device, the *WRC* is controlled by an Autani *Manager* appliance running *EnergyCenter* software, which manages lighting circuits based upon time schedules, local control, occupancy, demand response curtailments, light level, computer activity, and door openings or closures.

APPLICATIONS:

WRC wireless lighting controllers are suitable for renovation, upgrade, and new construction projects where individual fixture control and/or monitoring is desired.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Multi-Voltage Compatible, 120 to 277VAC
- Dimming and daylight harvesting (which support Title 24 requirements)
- Provides two 0-10V dimming control outputs
- Plenum Rated device promotes an efficient, distributed control strategy
- *autaniNet* secure wireless 802.15.4, 2.4GHz communications with other network devices
- Compatible with wireless switches, Autani's *MINI* wired and wireless occupancy sensors, 3rd party low voltage occupancy sensors, and door/ window contacts
- Local control via standard light switches and contact closures; 3-way and 4-way switching configurations are supported
- Connected sensors and switches function locally if Network Communications are lost
- Enhanced zero-crossing circuitry and control
- Configurable for momentary or maintained switch inputs
- UL Listed & Plenum Rated
- **Designed & Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
 TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

ELECTRICAL

- ♦ Operating Voltage: 100 to 277VAC
- ♦ Operating Current: 15mA typ./ 75mA max. @ 120VAC
- ♦ DC Output (25°C): 24VDC typ., 100mA (Class 2)
- ♦ Switching Capacity: 20A max. (resistive load)

INTERNAL RELAY (25°C)

- ♦ Max. Switching Power: 8310VA
- ♦ Max. Switching Voltage: 277VAC
- ♦ Max. Switching Current: 30A

EXTERNAL RELAY

See third party manufacturers' documentation

I/O PORTS

- ♦ Total power budget for all I/O ports is 120mA
- ♦ Power Pack
- ♦ DC Output: 24VDC typ., 100mA
- ♦ Contact: 24VDC typ., 100mA
- ♦ Sensor: 3.0VDC for Autani MINI Wired Sensor, 24VDC for 3rd party sensors
- ♦ 0-10V input channel for photocell
- ♦ (2) 0-10V output channels: Up to 20mA source current
- ♦ Option to add an EnOcean receiver for use with wireless EnOcean switches

LOCAL CONTROL INPUTS

- ♦ Wall Switch: (2) dry contact closures
- ♦ Sensor: Up to (10) Autani MINI/Wired Sensors

RADIO NETWORK (*autaniNet*)

- ♦ IEEE 802.15.4-2003 2.4GHz ISM
- ♦ Range: Approx. 600' LOS transmit/ receive

REGULATORY APPROVALS

- ♦ UL 916
- ♦ CSA C22.2 No. 205
- ♦ UL 2043 Plenum Rated
- ♦ Contains FCC Module FCC ID: V8NWAT1000153; IC: 7737A-WAT1000153

ENVIRONMENTAL

Test condition of all ratings 25°C

- ♦ Operating Temperature: 0° to 60°C
- ♦ Storage Temperature: -25° to 80°C
- ♦ Rated for indoor use only

PHYSICAL

- ♦ Dimensions (HxWxD): 3.75 x 3.93 x 1.19in
- ♦ Color: White
- ♦ Weight/ Shipping Weight: <10 oz/ <1lb



Indoor use only



Autani, LLC
TEL (443) 320-2233
FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

ORDERING INFORMATION:

SKU	Description
A02-01-XXXXXX	<i>WRC, 2 Wall Switches, 24V, 120 to 277VAC</i>
A02-01-XXXXXX	<i>WRC-EE, Same features as A02-XXX above and includes an EnOcean receiver for switch and motion inputs</i>
Optional Accessories:	
A05-01-0111-16	<i>MINI Wired Motion Sensor with RJ-11 modular connector</i>
A07-05-0001-01	<i>Key Card Holder, 24VDC, for vacancy detection, HKSWP-LX</i>
A05-13-0001-01	<i>WRC Door/ Window Contact (requires A02-01-0129-02 Accessory Cable)</i>
A02-01-0168-01	<i>Accessory Cable Kit, standard (includes (3) A02-01-0129-02 Accessory Cables and (1) A02-01-0288-01 1ft RJ-11 connector with bare ends whip)</i>
A02-01-0168-02	<i>Accessory Cable Kit, long cable (includes (3) A02-01-0129-02 Accessory Cables and (1) A02-01-0288-05 25ft RJ-11 connector with bare ends whip)</i>

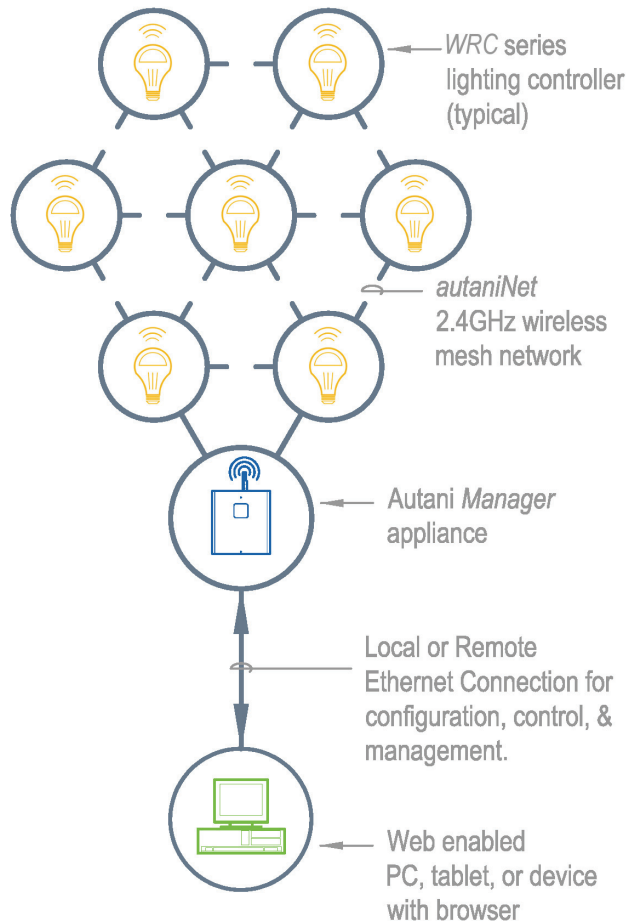
SKU	Description
Optional Accessories (continued):	
A02-05-0125-02	<i>UVPP Universal Voltage Power Pack (120 to 277VAC)</i>
A07-01-0403-01	<i>autaniNet Wireless Range Extender w/AC Power Supply</i>
A07-01-0403-02	<i>autaniNet Wireless Range Extender w/1' Wires</i>
A07-01-0403-05	<i>autaniNet Wireless Range Extender w/AC Power Supply, Conformal Coated</i>
A07-01-0403-06	<i>autaniNet Wireless Range Extender w/1' Wires, Conformal Coated</i>
A02-23-0400-01	<i>0-10V Photocell for daylight harvesting applications</i>

Autani, LLC

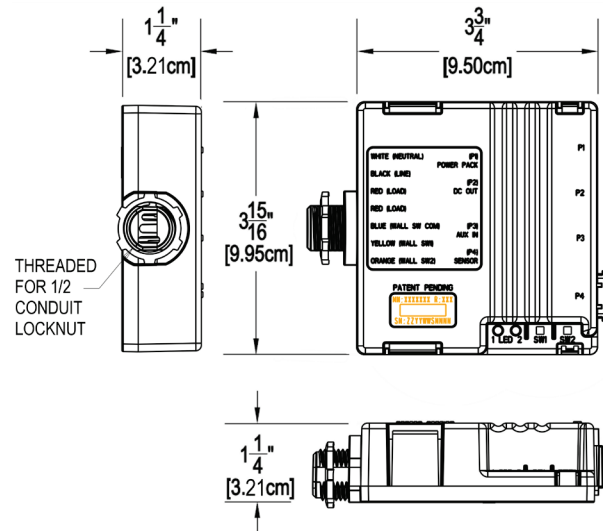
7170 Riverwood Drive, Suite B • Columbia, MD 21046
 TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



ONE-LINE DIAGRAM:



DIMENSIONS:



The EnergyCenter Family

It all centers on energy management

Autani's *EnergyCenter* product line integrates lighting, climate control, fans, metering, and plug loads to provide a powerful integrated energy management solution. *LightCenter*, *StatCenter*, *FanCenter*, *MeterCenter*, and *PLUS* software share the Autani *Manager* appliance and operate as an integrated application.

EnergyCenter software communicates via the Autani *Manager* to lighting controllers, motion sensors, thermostats, fans, meters, and more using *autaniNet*, a secure wireless 802.15.4, 2.4GHz communications network.

Autani's WRC Wireless Relay Controllers are fully backwards compatible with Autani Room Controllers (ARC), the previous version of Autani's wireless switching controllers.



Autani, LLC
TEL (443) 320-2233
FAX (240) 755-0092
www.autani.com



DESCRIPTION:

The Autani *AFC-A* Dimming Fixture Controller is a wirelessly managed 120/277/347VAC plenum rated lighting controller with integrated daylight harvesting support.

In addition to schedules and demand response events enacted by *LightCenter* software, the *AFC-A* can be deployed with local control, daylight harvesting control, or both. A standard power pack such as the Autani *UVPP* powers the Fixture Controller and provides a low end cutoff relay for connected loads.

Using *LightCenter*, occupancy detected by sensors connected to networked Room Controllers (like the *ARC-R*) can be used to determine light level, daylight harvesting setpoints, or maximum light level. Autani's *TruLevel* dimming records actual light levels as they are set, providing flawless, repeatable performance even if the light source degrades.

As a network device, the *AFC-A* is controlled by an Autani *Manager* appliance running *LightCenter* software. *LightCenter* manages lighting circuits based upon time schedules, local control, occupancy, light levels, demand response curtailments, computer activity, and door openings or closures.

APPLICATIONS:

AFC-A fixture controllers are suitable for renovation, upgrade, and new construction projects where individual fixture control and/or monitoring is desired.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Multi-Voltage Compatible, 120 to 347VAC
- Control of up to ten 0-10VDC dimmable fluorescent or LED lighting fixtures (Advance Mark 7 ballast or equivalent)
- Suitable for individual fixture control or zone based control schemes
- Sensor input for selected 0-10VDC photocells to support daylight harvesting with an unlimited number of targets or setpoints
- Local control input for selected 0-10VDC dimmer controls
- *TruLevel* dimming for lumen maintenance provides constant output over the life of selected LED fixtures
- Assignable guardband and delay for daylight harvesting applications to prevent unwanted changes in light level
- Connected sensors and controls function locally if Network Communications are lost
- Supports EnOcean wireless switches, contacts, sensors, and key card holders
- UL Listed & Plenum Rated
- **Designed & Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

ELECTRICAL

- ♦ Input Voltage: 12 to 30VDC
- ♦ Input Current: 20 to 100mA
- ♦ Output Voltage: 10V
- ♦ Output Current: 1mA
- ♦ 0-10VDC Analog Input (Channel 1 and 2): 0 to 10V
- ♦ 0-10VDC Analog Output: 0 to 10V

I/O PORTS

- ♦ Channel 1: 0-10VDC Daylight Sensor/ Photocell
- ♦ Channel 2: 0-10VDC Local Dimmer Control

RADIO NETWORK (*autaniNet*)

- ♦ IEEE 802.15.4-2003 2.4GHz ISM
- ♦ Range: Approx. 1000' LOS transmit/ receive

REGULATORY APPROVALS

- ♦ FCC (V8NZRB1000141) & IC (7737A-ZRB1000141)

ENVIRONMENTAL

Test condition of all ratings 25°C

- ♦ Operating Temperature: 0° to 60°C
- ♦ Storage Temperature: -25° to 80°C

PHYSICAL

- ♦ Dimensions (HxWxD): 3.35 x 1.07 x .71in
- ♦ Color: White
- ♦ Weight/ Shipping Weight: <10 oz/ <1lb

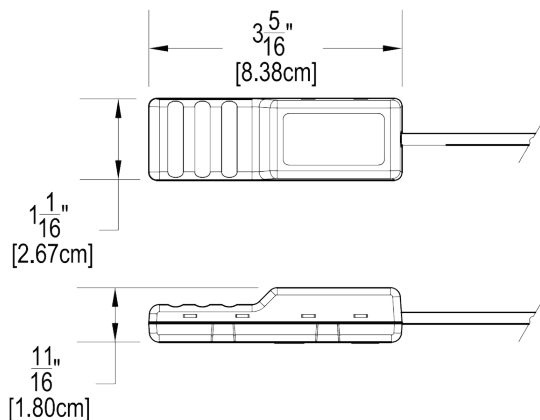


Indoor use only

ORDERING INFORMATION:

SKU	Description
A02-01-0009-01	AFC-A Dimming Fixture Controller, 0-10VDC interface, 120 to 347VAC (Requires UVPP for power, low end cutoff)
A02-01-0009-02	AFC-CR Dimming Fixture Controller, includes control relay drive output for use with ARC (Requires UVPP for power, low end cutoff)
Optional Accessories:	
A02-05-0125-02	UVPP Universal Voltage Power Pack (120 to 277VAC)
A02-12-0001-01	0-10VDC Local Dimmer Control with On/Off switch
A07-01-0403-01	<i>autaniNet</i> Wireless Range Extender. Includes 24VDC Power Supply with parallel blade plug.
EnOcean Wireless Accessories:	
<i>For additional information, see the individual product's data sheet.</i>	
A02-22-0213-01	Single Rocker Pad, Wireless, 902MHz, White
A02-22-0214-01	Double Rocker Pad, Wireless, 902MHz, White

DIMENSIONS:

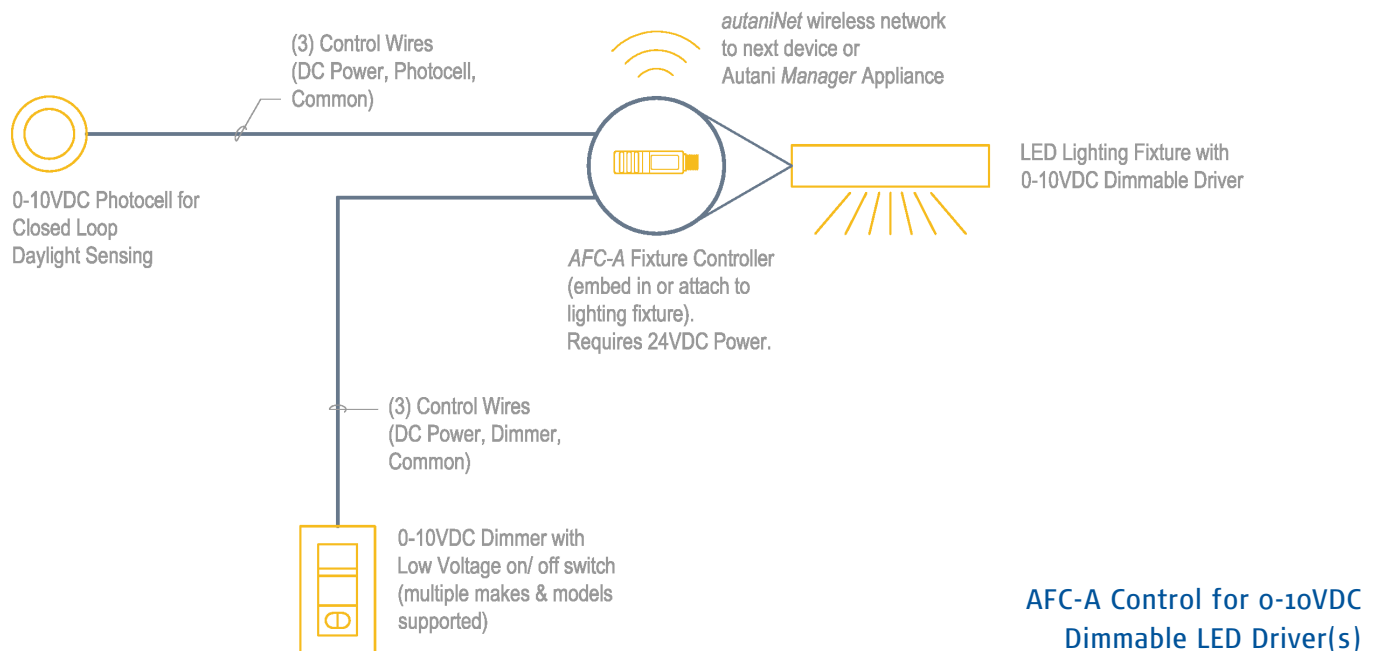
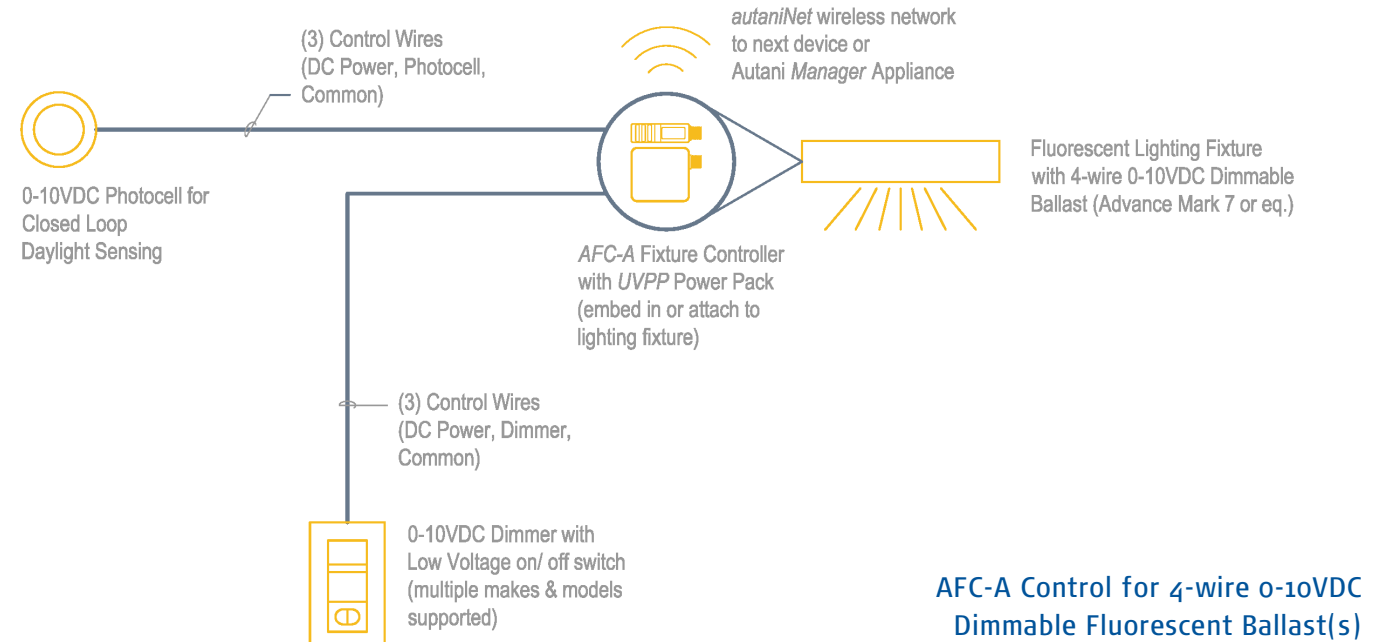


Autani, LLC
TEL (443) 320-2233
FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

ONE-LINE DIAGRAMS:



Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



THIS PAGE INTENTIONALLY LEFT BLANK



Autani, LLC
TEL (443) 320-2233
FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

The Autani *WOFC series Outdoor Fixture Lighting Controller* is a wirelessly managed network of *WOFC* outdoor fixture control devices, uplink appliances, and software that provides precise control and monitoring at an individual fixture level. Each outdoor fixture is equipped with an ANSI compliant twist-lock device that replaces the traditional on/off photosensor. Fixtures can be switched on, off, or smoothly dimmed when equipped with a 0-10V LED driver.

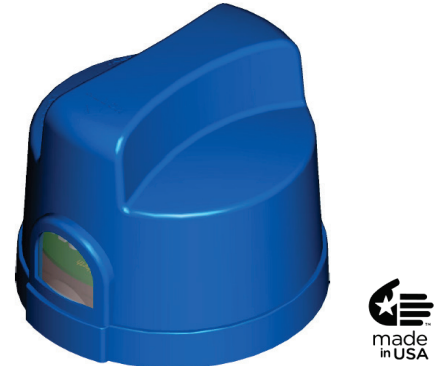
Compatible with Autani's *EnergyCenter* software platform, *WOFC*-equipped fixtures can be scheduled, configured, and controlled via a simple to use browser-based interface. Optional dimming is supported via a standard 0-10V analog interface, and can be configured to trigger the internal low end cutoff relay at any dim level, thereby providing support for a wide range of readily available LED drivers.

EnergyCenter can manage interior lighting, HVAC, plug loads, and computers, and can now extend to the exterior parking, campus walkway, and roadway areas of your facilities.

APPLICATIONS:

WOFC series wireless lighting controllers are suitable for renovation, upgrade, and new construction projects where individual fixture control and/or monitoring is desired.

- Parking Lots
- Private Roadways
- Public Streets & Highways
- College & Corporate Campus Walkways
- Jogging & Bike Pathways



FEATURES:

- Switch on/off individual fixtures, monitor status & run-time
- Dim LED fixtures equipped with 0-10V dimmable drivers
- Available at 120-277VAC, 347VAC, or 480VAC
- Uses 2.4Ghz 802.15.4 *autaniNet* secure wireless mesh network with 1000'+ range between controlled fixtures
- Installs where the photocell normally is located and is designed to take advantage of ANSI 136.41 fixture socket to support dimming
- Designed to UL773 standards; IP65 rated
- Programmed schedules and/or astronomical clock function provides finite or relative on/off or dimming events
- Controlled by an Autani *Manager* appliance running *EnergyCenter* software and fully integrated into the *autaniNet* wireless ecosystem
- **Designed & Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

ELECTRICAL

- ♦ Operating Voltage: 120-277VAC, 347VAC, 480VAC
- ♦ Operating Current: 75mA max.
- ♦ Switching Capacity: 2.5A max. @ 480VAC

RADIO NETWORK (*autaniNet*)

- ♦ IEEE 802.15.4-2003 2.4GHz ISM
- ♦ Range: 1000'+ LOS transmit/ receive

REGULATORY APPROVALS

- ♦ Conforms to UL STD 773
- ♦ Certified to CSA C22.2 #55
- ♦ FCC: V8NZRB1000141
- ♦ IC ID: 7737A-ZRB1000141

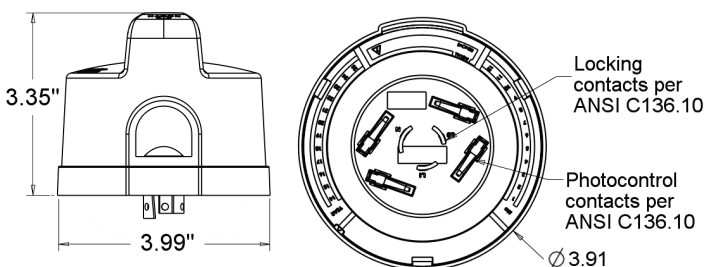
PHYSICAL

- ♦ Color: See chart below
- ♦ Weight/ Shipping Weight: <10oz/ <1lb

ORDERING INFORMATION:

SKU	Description
A02-01-0170-02	WOFC Wireless Outdoor Fixture Controller, 120-277VAC, Blue
A02-01-0170-03	WOFC Wireless Outdoor Fixture Controller, 347VAC, Green
A02-01-0170-01	WOFC Wireless Outdoor Fixture Controller, 480VAC, Yellow

DIMENSIONS:



ADDITIONAL SPECIFICATIONS:

	WOFC Model		
	A02-01-0170-02	A02-01-0170-03	A02-01-0170-01
Nominal Voltage 60 Hz	120-277	347	480
Fail Mode	On		
Load Rating (Ballast)	120V: 600VA / 277V: 1385VA	870VA	1200VA
Operating Temperature	-40C to +70C (-40F to +158F)		
Photocell (Failsafe Mode)	Phototransistor (provides backup on/off control if wireless communication is interrupted)		
Dielectric Strength	5000 Volts between carrying parts and metal surfaces		
Surge Protection	360 Joule MOV rated at 10,000 amp surge current		
Power Consumption	0.5 watts @ 120 V		
Time Delay Off (Instant On)	3 to 5 seconds		
Operating Light Levels (Standard Settings)	Turn On 1.5 FC $\pm$.25 / Turn Off by 2.25 FC (Off:On Ratio = 1.5:1)		
ANSI Color Coded Cover	Blue	Green	Yellow
Frequency	60Hz		



Autani, LLC
 TEL (443) 320-2233
 FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

The Autani *MINI* Wired Sensor is an easy to install, compact, high performance motion sensor that connects directly to Autani's *ARC* series of Room Controllers. The *MINI* detects changes in infrared radiation that occur when there is movement by a person (or object) which is different in temperature from the surroundings.

Autani *MINI* Motion Sensors are available with Standard, Slight, Spot, and 10m detection patterns. Multiple *MINI* Sensors may be connected in parallel to a single *ARC* for increased coverage in larger rooms. The *MINI* quickly mounts to a wall or ceiling using included hardware kit and connects to Autani's *ARC* range of Room Controllers using standard RJ-11 connectors and cabling.

Motion detected by the *MINI* is used by Autani's powerful *EnergyCenter* family of Integrated Energy Management software applications and hardware to trigger changes in lighting, load, plug load, and HVAC systems.

APPLICATIONS:

MINI Wired Motion Sensors are suitable for renovation, upgrade, and new construction projects.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Discreet, attractive, low-profile design
- High performance, compact passive infrared motion sensor compatible with Autani's *ARC* series of Room Controllers
- Includes mounting hardware for walls, ceilings, and standard T-Bar ceiling grids
- Standard, Slight, Spot, and 10m detection patterns available
- Multiple sensors can be connected in parallel to increase coverage area or to accommodate special room shapes
- Connects to *ARC* series Room Controllers using standard RJ-11 connectors and cabling (modular telephone wiring)
- Quad type pyroelectric element provides precise detection, even of small movements
- **Designed & Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

ELECTRICAL

- ◆ Input Voltage Range: 2.2 to 3.0VDC

ENVIRONMENTAL

- ◆ Operating Temperature: 0° to 60°C
- ◆ Storage Temperature: -25° to 80°C

DETECTION RANGE

- ◆ 10m Detection: 110° x 93°, 10m (32.808ft) max.

DETECTION CONDITIONS

- ◆ Detectable temperature difference between target and background is more than 4°C.
- ◆ Movement Speed/ 10m: 0.5 to 1.5 m/s

CONNECTION

- ◆ 6' Plenum Rated cable with installed RJ-11, modular connector

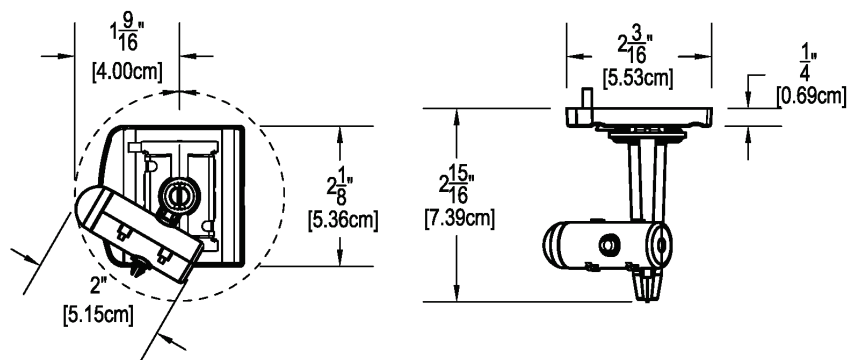
PHYSICAL

- ◆ Dimensions (HxWxD): 3.12 x 2.18 x 2.11in
- ◆ Color: White
- ◆ Weight/ Shipping Weight: <10 oz/ <1lb



Indoor use only

DIMENSIONS:



ORDERING INFORMATION:

SKU	Description
Includes 6' Plenum Rated cable with RJ-11 modular connector, Motion Sensor Pivot Arm, and clip mount for standard T-Bar grid. Sensor Mounting Bracket for non T-Bar ceilings sold separately.	
A05-01-0111-16	MINI Wired Motion Sensor
Optional Accessories:	
A02-01-0321-02	Modular Extension Cord (25ft Ivory), RJ-11
A02-13-0157-01	Modular Splitter to connect multiple MINI Motion Sensors, RJ-11
A02-13-0157-03	Modular Coupler (Female RJ-11 to Female RJ-11) for in-line extension, 6-Pin
A11-01-0102-01	Sensor Mounting Bracket



Autani, LLC
 TEL (443) 320-2233
 FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

The Autani *MINI* Wireless Motion Sensor is an easy to install, compact, high performance motion sensor with integrated wireless transceiver that uses the *autaniNet* wireless mesh network to connect to Autani *Manager* appliances and other *EnergyCenter* devices.

The *MINI* detects changes in infrared radiation that occur when there is movement by a person (or object) which is different in temperature from the surroundings.

Autani *MINI* Wireless Motion Sensors are available with Standard, Slight, Spot, and 10m detection patterns. The *MINI* quickly mounts to a wall or ceiling using included hardware kit.

Motion detected by the *MINI* Wireless Motion Sensor is used by Autani's powerful *EnergyCenter* family of Integrated Energy Management software applications and hardware to trigger changes in lighting, load, plug load, and HVAC systems.

APPLICATIONS:

MINI Wireless Motion Sensors are suitable for renovation, upgrade, and new construction projects where individual fixture control and/or monitoring is desired.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Discreet, attractive, low-profile design
- High performance, compact passive infrared motion sensor with wireless connectivity
- No control wiring required! *autaniNet* secure wireless 2.4GHz communications with Autani *Manager* and other network devices
- Standard, Slight, Spot, and 10m detection patterns available
- Multiple sensors can be located in the same room to increase coverage area or to accommodate special room shapes
- Includes multi position mounting bracket for wall or ceiling installation
- Quad type pyroelectric element provides precise detection, even of small movements
- Quick and easy to install
- **Designed & Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
 TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

ELECTRICAL

- ◆ Input Voltage: 2 AA batteries

ENVIRONMENTAL

- ◆ Operating Temperature: 0° to 60°C
- ◆ Storage Temperature: -25° to 80°C

DETECTION RANGE

- ◆ 10m Detection: 110° x 93°, 10m (32.808ft) max.

DETECTION CONDITIONS

- ◆ Detectable temperature difference between target and background is more than 4°C.
- ◆ Movement Speed/ 10m: 0.5 to 1.5 m/s

RADIO NETWORK (*autaniNet*)

- ◆ IEEE 802.15.4-2003 2.4GHz ISM
- ◆ Range: Approx. 100' LOS transmit/ receive from any line powered autaniNet device

REGULATORY APPROVALS

- ◆ FCC (V8NWAT1000119)
- ◆ IC (7737A-WAT1000119)

PHYSICAL

Dimensions without mounting hardware

- ◆ Dimensions (HxWxD): 3.01 x 1.7 x 2.14in
- ◆ Color: White
- ◆ Weight/ Shipping Weight: <10 oz/ <1lb

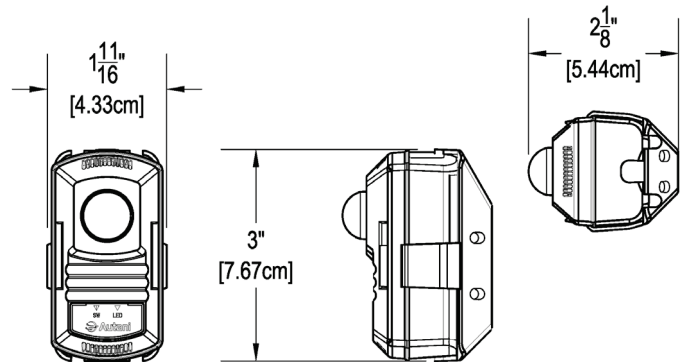


Indoor use only

ORDERING INFORMATION:

SKU	Description
Wall mount sleeve is included. Requires (2) AA batteries (not included).	
A05-01-0115-04	<i>MINI</i> Wireless Motion Sensor
Optional Accessories:	
A11-13-0001-01	Rechargeable Battery Pack with charger
A07-01-0403-01	<i>autaniNet</i> Wireless Range Extender. Includes 24VDC Power Supply with parallel blade plug.
A07-01-0403-02	<i>autaniNet</i> Wireless Range Extender. Requires 24VDC Power Supply (not included).

DIMENSIONS:



Autani, LLC
 TEL (443) 320-2233
 FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

The autaniNet/EnOcean Bridge acts as a gateway between devices using the EnOcean wireless standard and Autani EnergyCenter devices communicating wirelessly via autaniNet.

By linking autaniNet and EnOcean devices, the user reaps the benefits of both worlds—the convenience of EnOcean's self-powered capabilities and the increased functionality of the much larger wireless range that Autani provides.

The autaniNet/EnOcean Bridge can serve as more than a gateway—it also has the capability to act as a remote, self-powered temperature sensor. Simply wire the Bridge to Autani's T32P thermostat, and connect the temperature sensor leads to the TT terminals. This connection allows EnOcean self-powered temperature sensors to report remote temperatures to the T32P thermostat, eliminating the need for cumbersome wired sensors or wireless sensors that require an additional power source.

APPLICATIONS:

The autaniNet/EnOcean Bridge is suitable for renovation, upgrade, and new construction projects.

- Hospitality & Patient Care Rooms
- Private & Open Offices
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Expands the range of a network of EnOcean devices when used within an autaniNet network
- Ties together EnOcean and Autani devices under autaniNet, giving users powerful monitoring and management capabilities for each device via the Autani Manager
- When combined with an EnOcean enabled temperature sensor, the autaniNet/EnOcean Bridge can serve as an NTC Type II temperature sensor, reporting temperatures over the wired interface
- Powered from 12-24v AC or DC
- Secure wireless communications with both Autani EnergyCenter devices and EnOcean devices
- Designed & Made in the USA

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
 TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

ELECTRICAL

- ♦ Input Voltage: 12-24V AC/DC

ENVIRONMENTAL

- ♦ Operating Temperature: 0° to 60°C
- ♦ Storage Temperature: -25° to 80°C

RANGE

- ♦ autaniNet: Approx. 300' LOS transmit/ receive
- ♦ EnOcean: Approx. 80-100' LOS transmit/ receive (see individual device)

RADIO NETWORK (autaniNet)

- ♦ IEEE 802.15.4-2003 2.4GHz ISM

RADIO NETWORK (EnOcean)

- ♦ EnOcean 902 MHz

REGULATORY APPROVALS

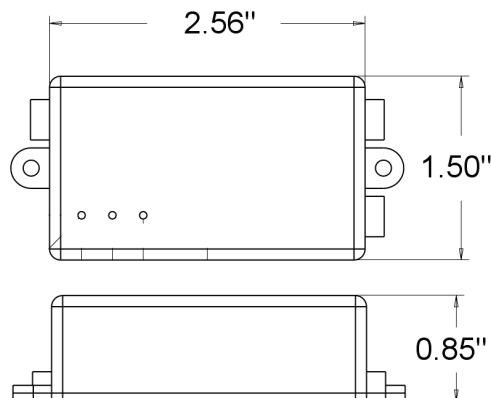
- ♦ FCC: V8NWT1000142 and SZVSTM300U
- ♦ IC: 7737A-WAT1000142 and 5713A-STM300U

PHYSICAL

- ♦ Dimensions (HxWxD): 2.56 x 1.5 x 0.85in



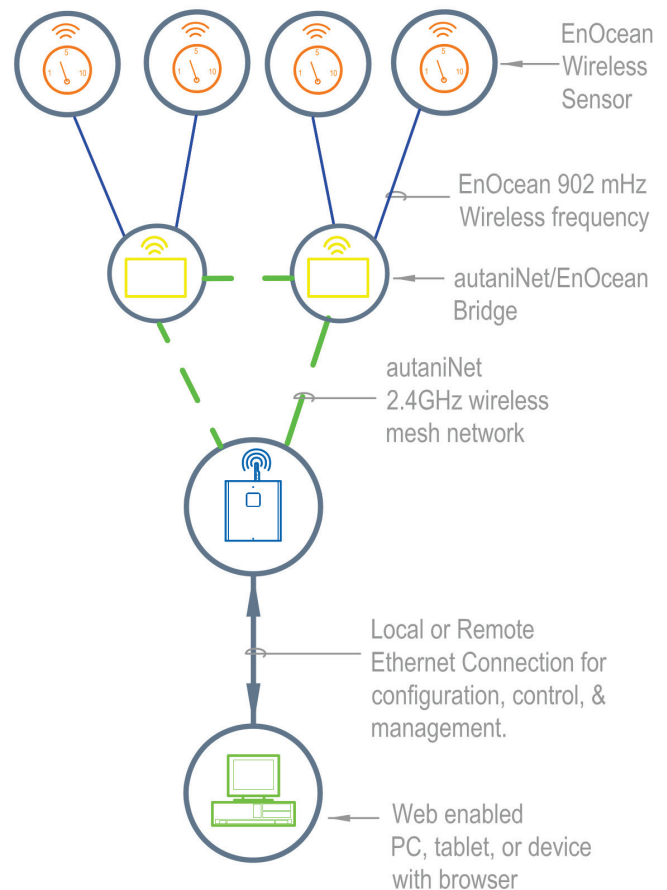
DIMENSIONS:



ORDERING INFORMATION:

SKU	Description
A06-01-0440-01	autaniNet/EnOcean Bridge

LINE DRAWING:



Autani, LLC
 TEL (443) 320-2233
 FAX (240) 755-0092
www.autani.com



DESCRIPTION:

Saving energy without sacrificing comfort can be effortless with occupancy based controls. The Ceiling Mounted Occupancy Sensor enables a new level of energy saving control for rooms, hallways and other common areas.

The occupancy sensor uses radio frequency technology to communicate wirelessly with other *EnergyCenter* and EnOcean-enabled devices to set back temperature and turn off lights and electrical loads when a space has been unoccupied for a set period of time.

Because the sensors are wireless there is no need to run additional wiring and installation can be completed in a matter of minutes. The sensor is self-powered by harvesting energy from indoor light, eliminating the need for periodic battery changes. The clean, contemporary styling makes it an attractive addition to any décor.

APPLICATIONS:

EnOcean Occupancy Sensors are suitable for renovation, upgrade, and new construction projects.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Communicates wirelessly with other *EnergyCenter* and EnOcean devices
- Two integrated solar cells enable indoor light energy harvesting to power the device and eliminate the need for wires or batteries
- PIR motion sensor with 360° viewing angle lens for maximum efficiency in different room settings
- Two molded buttons with LED indicator lights can be used to link and configure the device
- Internal coin cell battery as backup for low light environments
- Perfect energy saving solution for any space where traffic patterns or occupancy determine the need to power the space—ideal for guest rooms, living spaces, common areas or hallways
- Energy harvesting wireless solution provides limitless supplies of energy and unrivaled flexibility

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

POWER SUPPLY

- Indoor light energy harvesting (Optional supplemental battery or 2-wire connector for external power or remote solar cell)

RADIO NETWORK (EnOcean)

- 902 MHz RF transceiver

RANGES

- Transmission Range: 80ft. (25m)
- Motion Detection Range: 40ft. (25m) diameter

MINIMUM OPERATING LIGHT

- 50 lux (for auto-off only)

STARTUP CHARGE TIMES (FROM EMPTY)

- Linking = 4 min @ 100 lux, 1.5 min @ 200 lux
- Motion Transmission = 6 min @ 100 lux, 3.5 min @ 200 lux
- Light/Walk Test Modes = 5.5 hrs @ 200 lux

Note: Bright light or battery can be temporarily used to shorten initial startup charge times

CHARGE TIMES

- Charge Time to Full: 9 hrs @ 200 lux
- Sustaining Charge Time: 3 hrs per 24 hrs @ 200 lux

MOTION TRANSMISSION INTERVAL

- 60 - 300 seconds (based on real-time charge rate)
- 60 sec @ 200 lux - 300 sec @ 50 lux

HEARTBEAT TRANSMISSION INTERVAL

- 120 - 600 seconds (based on real-time charge rate)
- 120 sec @ 200 lux - 600 sec @ 50 lux

OPERATING LIFE IN DARKNESS

- 48 hours (after full charge)

ENOCEAN EQUIPMENT PROFILE (EEP)

- EOSCC (315MHz): A05-07-01

DIMENSIONS

- HxWxD: 6.5 x 2.36 x 1.47in (160 x 60 x 37mm)

AGENCY COMPLIANCE

- FCC, see product for agency markings

OTHER INFORMATION

- Mounting Height: 7 - 10 feet (recommended)
- Warranty: 1 year



Indoor use only

ORDERING INFORMATION:

SKU	Description
A05-22-0163-01	Occupancy Sensor, Ceiling Mounted, Wireless, 902MHz, White
Optional Accessories:	
A05-22-0161-01	Door/Window Sensor, 902MHz
A07-22-0404-01	Key Card Switch, 902MHz
A05-22-0164-01	Occupancy Sensor, Wall Mounted, Wireless, 902MHz, White
A02-22-0222-01	Power Relay, 902MHz, White
A02-22-0213-01	Single Rocker Pad, Wireless, 902MHz
A02-22-0214-01	Double Rocker Pad, Wireless, 902MHz

SENSOR RANGE AND COVERAGE DIAGRAMS:

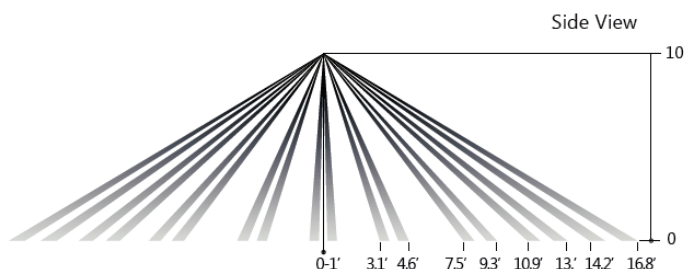


Fig. 1: Side view of sensor coverage based on 10ft. mounting height

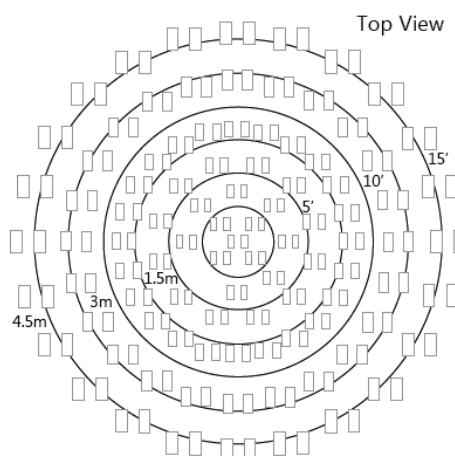


Fig. 2: Top view of sensor coverage based on 10ft. mounting height



Autani, LLC

TEL (443) 320-2233

FAX (240) 755-0092

www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

Saving energy without sacrificing comfort can be effortless with occupancy based controls. The Wall-Mounted Occupancy Sensor is wireless and self-powered, making it one of the most cost effective ways to control energy-use in unoccupied rooms.

Sensors can be installed in minutes because there are no additional wires to run, and they require no batteries so on-going maintenance costs are eliminated.

The sensor harvests solar energy from indoor light and uses radio frequency technology to communicate wirelessly with other *EnergyCenter* and EnOcean-enabled devices, setting back temperature and turning off lights and electrical loads when it detects that a space has been unoccupied for a set period of time. The sensor features clean contemporary styling, making it an attractive addition that's sure to compliment any décor.

APPLICATIONS:

EnOcean Occupancy Sensors are suitable for renovation, upgrade, and new construction projects.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Communicates wirelessly with other *EnergyCenter* and EnOcean devices
- Integrated solar cell harvests indoor light to power the device, eliminating the need for wires or batteries
- PIR motion sensor with both wide angle and long range options for maximum efficiency and flexibility in different room settings
- Two molded buttons with LED indicator lights can be used to link and configure the device
- Internal coin cell battery as backup for low light environments
- Perfect energy saving solution for any space where traffic patterns or occupancy determine the need to power the space—ideal for guest rooms, living spaces, common areas or hallways
- Energy harvesting wireless solution provides limitless supplies of energy and unrivaled flexibility

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

POWER SUPPLY

- Indoor light energy harvesting (Optional supplemental battery or 2-wire connector for external power or remote solar cell)

RADIO NETWORK (EnOcean)

- 902 MHz RF transceiver

RANGES

- Transmission Range: 80ft. (25m)
- Motion Detection Range: 50ft. wide angle lens / 100ft. long range lens

MINIMUM OPERATING LIGHT: 50 lux (for auto-off only)

STARTUP CHARGE TIMES (FROM EMPTY)

- Linking = 4 min @ 100 lux, 1.5 min @ 200 lux
- Motion Transmission = 6 min @ 100 lux, 3.5 min @ 200 lux
- Light/Walk Test Modes = 5.5 hrs @ 200 lux

Note: Bright light or battery can be temporarily used to shorten initial startup charge times

CHARGE TIMES

- Charge Time to Full: 9 hrs @ 200 lux
- Sustaining Charge Time: 3 hrs per 24 hrs @ 200 lux

MOTION TRANSMISSION INTERVAL

- 60 - 300 seconds (based on real-time charge rate)
- 60 sec @ 200 lux - 300 sec @ 50 lux

HEARTBEAT TRANSMISSION INTERVAL

- 120 - 600 seconds (based on real-time charge rate)
- 120 sec @ 200 lux - 600 sec @ 50 lux

OPERATING LIFE IN DARKNESS

- 48 hours (after full charge)

ENOCEAN EQUIPMENT PROFILE (EEP)

- EOSWC (315MHz): A05

DIMENSIONS

- HxWxD: 5.83 x 2.52 x 1.8in (148 x 64 x 47.5mm)

AGENCY COMPLIANCE

- FCC, see product for agency markings

OTHER INFORMATION

- Mounting Height: 6 - 8 feet (recommended)
- Warranty: 1 year



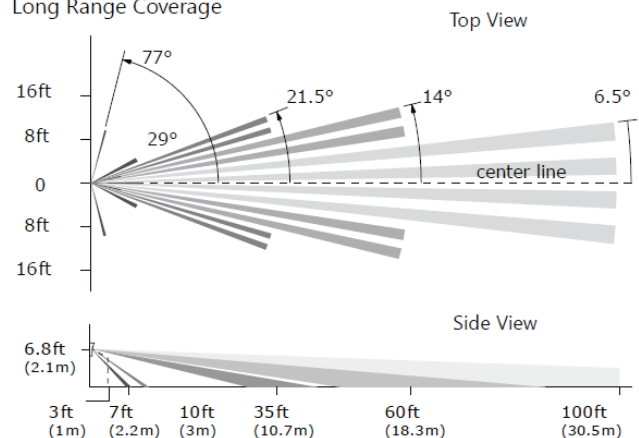
Indoor use only

ORDERING INFORMATION:

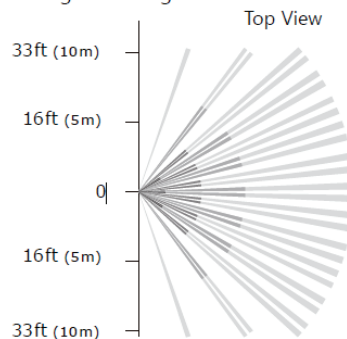
SKU	Description
A05-22-0164-01	Occupancy Sensor, Wall Mounted, Wireless, 902MHz, White
Optional Accessories:	
A05-22-0161-01	Door/Window Sensor, 902MHz
A07-22-0404-01	Key Card Switch, 902MHz
A05-22-0163-01	Occupancy Sensor, Ceiling Mounted, Wireless, 902MHz, White
A02-22-0222-01	Power Relay, 902MHz, White
A02-22-0213-01	Single Rocker Pad, Wireless, 902MHz
A02-22-0214-01	Double Rocker Pad, Wireless, 902MHz

SENSOR COVERAGE DIAGRAMS:

Long Range Coverage



Wide Angle Coverage



Autani, LLC

TEL (443) 320-2233

FAX (240) 755-0092

www.autani.com



DESCRIPTION:

Self-powered wireless controls are simple to install. The Single and Double Rocker Pads use EnOcean energy harvesting technology to communicate wirelessly with other wireless devices and provide convenient control of lighting, temperature and miscellaneous electric loads.

The rocker pads are self-powered and never require batteries because the simple act of pressing the rocker generates enough energy to send a wireless signal to other EnOcean and *EnergyCenter* based devices. Use them in conjunction with sensors and controls to maximize efficiency and provide a level of comfort and convenience you cannot achieve with traditional switches.

The rocker pad features a clean contemporary styling, making it an attractive addition that's sure to compliment any décor.



FEATURES:

- No additional wire to run so installation is fast and easy--install them where you want them and then move them anytime
- Communicates wirelessly with other *EnergyCenter* and EnOcean devices
- Decorator style rocker pads capable of performing switching and dimming functions
- Perfectly suited for use in new construction projects or when updating an existing space
- Combine them with other *EnergyCenter* and EnOcean enabled products for efficient and convenient control of lighting, temperature setbacks and electric loads
- Energy harvesting wireless solution provides limitless supplies of energy and unrivaled flexibility

APPLICATIONS:

EnOcean Rocker Pads are suitable for renovation, upgrade, and new construction projects.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

POWER SUPPLY

- ♦ Mechanical Energy Harvesting (power is generated by the motion of pressing the switch)

INPUTS/OUTPUTS

- ♦ 1 or 2 button rocker switch options
- ♦ Radio Frequency (RF) transmitter

RF COMMUNICATIONS

- ♦ EnOcean 902 MHz

TRANSMISSION RANGE

- ♦ 80ft. (25m)

RF TRANSMISSION

- ♦ On press and release of rocker button

EEP (ENOCEAN EQUIPMENT PROFILE)

- ♦ F6-02-02

DIMENSIONS

- ♦ Single HxWxD: 4.95 x 3.21 x 0.74in
- ♦ Double HxWxD: 4.95 x 4.52 x 0.72in

WEIGHT

- ♦ Single: 3.98 oz. (112g); Double: 5.3 oz. (150g)

MOUNTING

- ♦ Surface mounted on wall (using included mounting screws)
- ♦ Can also be flush mounted by optional use of electrical wall box or low-voltage ring

ENVIRONMENT

- ♦ 32° to 131° F (0° to 55° C)
- ♦ 5% to 95% relative humidity (non-condensing)

AGENCY COMPLIANCE

- ♦ 315 MHz: FCC: SZV-PTM210C, IC: 5713A-PTM210C

WARRANTY

- ♦ 1 year



Indoor use only

ORDERING INFORMATION:

SKU	Description
A02-22-0213-01	Single Rocker Pad, Wireless, 902MHz, White
A02-22-0214-01	Double Rocker Pad, Wireless, 902MHz, White
Optional Accessories:	
A05-22-0161-01	Door/Window Sensor, Self-powered wireless contact, 902MHz, White
A07-22-0404-01	Key Card Switch, Self-powered Wireless Occupancy Detection, 902MHz, White
A05-22-0163-01	Occupancy Sensor, Ceiling Mounted, Wireless, 902MHz, White
A05-22-0164-01	Occupancy Sensor, Wall Mounted, Wireless, 902MHz, White
A02-22-0222-01	902MHz, 120-277VAC, 50-60Hz, WIRE-IN Relay for loads up to 16A. White.



Autani, LLC
TEL (443) 320-2233
FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

Take the first step toward significant energy savings. The *Key Card Switch* is one of the simplest, most economical ways to save energy through occupancy based control of lighting, HVAC and miscellaneous electric loads.

The switch is self-powered and the simple act of inserting or removing the card generates enough kinetic energy to send a wireless signal to other *EnergyCenter* and EnOcean-based devices within the room.

To operate the switch, guests simply insert their key card in the slot when they enter the room and then remove it when they leave. The key card switch is wireless and can be installed in minutes without having to drill into the wall or run additional wiring.

The switch features a clean contemporary styling, making it an attractive addition that's sure to compliment any décor.

APPLICATIONS:

EnOcean Key Card Switches are suitable for renovation, upgrade, and new construction projects.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Communicates wirelessly with other *EnergyCenter* and EnOcean devices
- Key card slot accommodates any standard hotel key card
- Wireless, self-powered device eliminates the need for additional wiring and batteries
- Installation is quick and easy, reducing operating costs
- Ideal for detecting occupancy within guest rooms in hotels, senior residences or similar living spaces
- Energy harvesting wireless solution provides limitless supplies of energy and unrivaled flexibility
- Affordable and convenient occupancy based solution for controlling lights, HVAC energy use, and other electrical loads

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

POWER SUPPLY

- ♦ Mechanical energy harvesting (power is generated by the motion of door opening or closing)

INPUTS/ OUTPUTS

- ♦ Slot for standard hotel key card (WxHxD): 2.125 x 3.375 x 0.034in
- ♦ Radio Frequency (RF) transmitter

RF COMMUNICATIONS

- ♦ EnOcean 902 MHz RF transceiver

TRANSMISSION RANGE

- ♦ 80ft. (25m)

EEP (ENOCEAN EQUIPMENT PROFILE)

- ♦ F6-04-01

RF TRANSMISSION

- ♦ On key card insertion or removal

INSTALLATION

- ♦ Surface mounted on wall (using included mounting screws)

PHYSICAL

- ♦ Dimensions (HxWxD): 4.72 x 3.8 x 0.43in at edge (120 x 97 x 11mm)
- ♦ Weight: 3.5 oz (99g)

ENVIRONMENT

- ♦ 32° to 131° F (0° to 55° C)
- ♦ 5% to 95% relative humidity (non-condensing)

AGENCY COMPLIANCE

- ♦ 315 MHz: FCC: SZV-PTM33XC, IC: 5713A-PTM33XC
- ♦ 902 MHz: FCC: SZV-PTM33XU, IC: 5713A-PTM33XU

WARRANTY

- ♦ 1 year



Indoor use only

ORDERING INFORMATION:

SKU	Description
A07-22-0404-01	Key Card Switch, Self-powered Wireless Occupancy Detection, 902MHz, White
Optional Accessories:	
A05-22-0161-01	Door/Window Sensor, Self-powered wireless contact, 902MHz, White
A05-22-0163-01	Occupancy Sensor, Ceiling Mounted, Wireless, 902MHz, White
A05-22-0164-01	Occupancy Sensor, Wall Mounted, Wireless, 902MHz, White
A02-22-0213-01	Single Rocker Pad, Wireless, 902MHz, White
A02-22-0214-01	Double Rocker Pad, Wireless, 902MHz, White
A02-22-0222-01	902MHz, 120-277VAC, 50-60Hz, WIRE-IN Relay for loads up to 16A. White.



enocean®



Autani, LLC

TEL (443) 320-2233

FAX (240) 755-0092

www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

The Door/Window Sensor provides a simple solution to help track occupancy when doors and windows are left opened. It can be easily mounted on any standard door or window frame to enable occupancy based control of lighting, HVAC and miscellaneous electric loads.

The sensor uses radio frequency technology to communicate wirelessly with other *EnergyCenter* and EnOcean-based devices whenever it detects that a door or window has been opened or closed.

The sensor is completely self-powered by harvesting ambient solar energy so there are no wires to run or batteries to replace, reducing installation time and eliminating the need for on-going maintenance. For maximum efficiency and control of energy use, combine the door and window sensor with EnOcean-based ceiling or wall mounted occupancy sensors.



APPLICATIONS:

EnOcean Door/Window Sensors are suitable for renovation, upgrade, and new construction projects.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores

FEATURES:

- Communicates wirelessly with other EnergyCenter and EnOcean devices
- Integrated solar cell harvests indoor light to power the device and eliminates the need for wires or batteries
- Single button with LED indicator light enables simple device configuration
- Built in mounting plate for easy installation on any standard door or window frame
- Internal coin cell battery as backup for low light environments
- Can be used stand-alone or paired with an occupancy sensor to control energy use even more efficiently
- Energy harvesting wireless solution provides limitless supplies of energy and unrivaled flexibility

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

POWER SUPPLY

- ♦ Indoor light energy harvesting
- ♦ (Optional) Supplemental battery

INPUTS/OUTPUTS

- ♦ Integrated solar cell for energy harvesting
- ♦ Magnetic reed switch contact sensor
- ♦ Radio Frequency (RF) transmitter
- ♦ Button with LED for device configuration

RADIO NETWORK (EnOcean)

- ♦ 902 MHz RF transceiver

TRANSMISSION RANGE

- ♦ 80ft. (25m)

CHARGE TIME BEFORE LINKING

- ♦ 4 minutes @ 200 lux

LIGHT REQUIRED TO MAINTAIN OPERATION

- ♦ 50 lux for 30 transmissions/hour
- ♦ 100 lux for 60 transmissions/hour

CHARGE TIME FOR FULL CHARGE

- ♦ 20 hours @ 200 lux (after startup)
- ♦ 40 hours @ 200 lux (cold start)

OPERATING LIFE IN DARKNESS (after full charge)

- ♦ 7 days: heartbeat only
- ♦ 3 days @ 10 actuations/hour
- ♦ 10 hours @ 100 actuations/hour

EEP (ENOCEAN EQUIPMENT PROFILE)

- ♦ D5-00-01

RF TRANSMISSION

- ♦ On door/window opening/closing events or heartbeat

MAXIMUM SENSOR GAP

- ♦ 0.25in. (6.4mm)

DIMENSIONS

- ♦ Sensor HxWxD: 3.15 x 0.83 x 0.59in (80 x 21 x 15mm)
- ♦ Magnet HxWxD: 3.15 x 0.47 x 0.51in (80 x 12 x 13mm)

SPECIFICATIONS: (CONTINUED)

MOUNTING

- ♦ Sensor - door or window frame, Magnet - door or window

AGENCY COMPLIANCE

- ♦ FCC, see product for agency markings

WARRANTY

- ♦ 1 year



Indoor use only

ORDERING INFORMATION:

SKU	Description
A05-22-0161-01	Door/Window Sensor, Self-powered wireless contact, 902MHz, White
Optional Accessories:	
A02-22-0222-01	902MHz, 120-277VAC, 50-60Hz, WIRE-IN Relay for loads up to 16A. White.
A07-22-0404-01	Key Card Switch, Self-powered Wireless Occupancy Detection, 902MHz, White
A05-22-0163-01	Occupancy Sensor, Ceiling Mounted, Wireless, 902MHz, White
A05-22-0164-01	Occupancy Sensor, Wall Mounted, Wireless, 902MHz, White
A02-22-0213-01	Single Rocker Pad, Wireless, 902MHz, White
A02-22-0214-01	Double Rocker Pad, Wireless, 902MHz, White



Autani, LLC
 TEL (443) 320-2233
 FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

Autani's *ACC Wireless Relay* controller provides wireless control of an internal low voltage relay for direct digital control applications and for controlling larger loads when paired with an intermediate line voltage relay.

A cost-effective control solution, the *ACC Wireless Relay* also provides contact closure signaling and the ability to switch a low-voltage load.

Using Autani's *EnergyCenter* software, the *ACC Wireless Relay* can be scheduled and mapped to open or close based on schedule or event actions from other devices.

APPLICATIONS:

ACC Wireless Relay controllers are suitable for renovation, upgrade, and new construction projects where individual fixture control and/or monitoring is desired.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Provides wireless control for numerous applications including baseboard heaters and ice cube relays
- Requires no special personnel for installation, saving money and time
- Wireless communication based on the reliable 802.15.4 protocol
- LEDs on the device indicate network status and unit status
- Powered from 24VAC or 24VDC
- Works with other *EnergyCenter* products to further eliminate wasted energy and increase operating efficiency
- FCC and IC approved
- **Designed and Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

ELECTRICAL

- ◆ Input Voltage: 24V AC/DC
- ◆ Input Current: 100mA max.
- ◆ Switching Current: 2A max.

RADIO NETWORK (*autaniNet*)

- ◆ IEEE 802.15.4-2003 2.4GHz ISM
- ◆ Range: Approx. 1000' LOS transmit/ receive

REGULATORY APPROVALS

- ◆ FCC (V8NZRB1000141)
- ◆ IC (7737A-ZRB1000141)

ENVIRONMENTAL

Test condition of all ratings 25°C

- ◆ Operating Temperature: 0° to 60°C
- ◆ Storage Temperature: -25° to 70°C
- ◆ Rated for indoor use only

PHYSICAL

- ◆ Dimensions (HxWxD): 3.35 x 1.07 x .71in
- ◆ Color: White
- ◆ Weight/ Shipping Weight: <10 oz/ <1lb

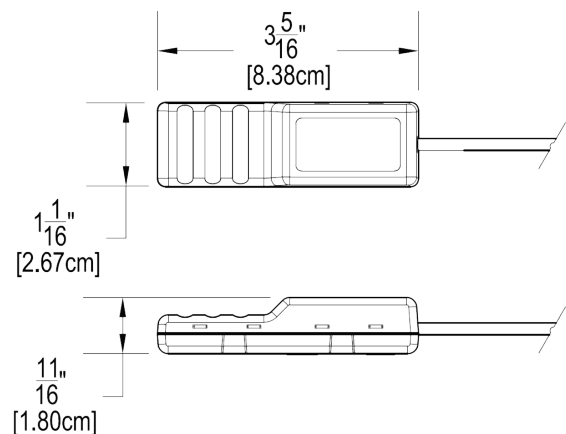


Indoor use only

ORDERING INFORMATION:

SKU	Description
A01-01-0141-21	ACC Wireless Relay with 2A/24V NO Contact <i>(Requires 24v AC/DC power supply, by others. Requires EnergyCenter PRO for Mapping functionality.)</i>

DIMENSIONS:



Autani, LLC
 TEL (443) 320-2233
 FAX (240) 755-0092
www.autani.com



DESCRIPTION:

The Autani T32P is a wirelessly networked, thermostat for use with Autani's *StatCenter* HVAC Management System. *StatCenter* manages heating and cooling based upon schedule, occupancy, and demand response events.

Simple to install, the T32P is a direct replacement for many existing thermostats and can sense temperature either at the stat, via a remote sensor, or as an average of the two.

Optional *MINI* Motion Sensors, door/ window contacts, and Key Card holders toggle the occupancy status of a particular room or space. "Occupied" and "Unoccupied" settings are used to vary heating and cooling setpoints, and maximize savings.

Connectivity between Thermostats and other *EnergyCenter* devices is via the secure, reliable *autaniNet* wireless mesh network. The T32P Thermostat maintains local HVAC control, even if network communication is lost.

StatCenter devices are managed with an Autani *Manager* appliance running *StatCenter* software and can be part of an *EnergyCenter* integrated energy management system.

APPLICATIONS:

T32P Thermostats are suitable for renovation, upgrade, and new construction projects.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Easy to install, fast to configure, managed Thermostat is compatible with most commercial and residential HVAC Systems
- Web-based, remote access and management
- Separate heating and cooling setpoints with deadband control via *StatCenter*
- User-definable occupied and unoccupied setpoints can be varied based upon schedule and curtailment stages
- *autaniNet* secure wireless 2.4GHz communications with other network devices
- Compatible with Autani's *MINI* range of wired and wireless occupancy sensors with programmable occupancy delays
- Large backlit display with keyboard locks and PIN protected installer setup menus
- Optional Key Card holder to set occupancy for Hospitality projects
- Available wired and wireless door/ window contacts to set back HVAC when doors and windows are open
- **Designed & Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046

TEL (443) 320-2233 • FAX (240) 755-0092

www.autani.com

SPECIFICATIONS:

ELECTRICAL

- ◆ Input Voltage: 24VAC 50/60Hz +/- 15%
- ◆ Relay Rating: 24VAC @ 1 Amp max. per relay

TEMPERATURE SENSING

- ◆ Accuracy: +/- 0.3° @ 77°F
- ◆ Temperature Sensor(s): 10K NTC type 3
- ◆ Display Resolution: 0.1°F

DISPLAY

- ◆ Display Size (WxH): 2.75 x 1.875in
- ◆ Back Light: Blue EL (Electro Luminescent)
- ◆ Back Light Life: 3,000 hours to half brightness

OPTIONS

- ◆ Keyboard Lock: Multiple level selection
- ◆ Heating Setpoint Range: 41°F to 120°F
- ◆ Cooling Setpoint Range: 43°F to 122°F
- ◆ Internal Sensor Calibration: +/- 9°F

EQUIPMENT COMPATIBILITY

- ◆ 1 Heat/ 1 Cool
- ◆ 2 Heat/ 2 Cool
- ◆ 2 Heat/ 1 Cool Heat Pump
- ◆ 3 Heat/ 2 Cool Heat Pump
- ◆ 2 Heat/ 1 Cool Dual Fuel
- ◆ 3 Heat/ 2 Cool Dual Fuel

RADIO NETWORK (*autaniNet*)

- ◆ IEEE 802.15.4-2003 2.4GHz ISM
- ◆ Range: Approx. 1000' LOS transmit/ receive

REGULATORY APPROVALS

- ◆ FCC (V8NARC1000133)
- ◆ IC (7737A-ARC1000133)

ENVIRONMENTAL

- ◆ Operating Temp: 32° to 122°F (0° to 50°C)
- ◆ Storage Temp: 32° to 105°F (0° to 40°C)
- ◆ Operating RH: 0-95% (non-condensing)

PHYSICAL

- ◆ Dimensions (HxWxD): 5.52 x 4.49 x 1.07in
- ◆ Color: White
- ◆ Weight: 9 oz

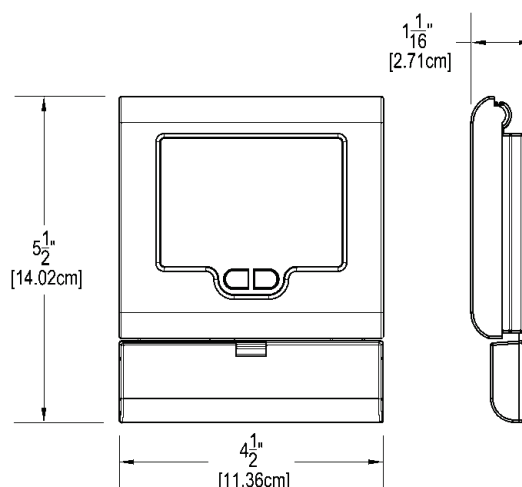
ORDERING INFORMATION:

SKU	Description
A01-09-0140-01	Autani T32P Wireless Thermostat
Optional Accessories:	
A05-01-0115-04	<i>MINI</i> Wireless Motion Sensor
A01-09-0537-01	T32S1 Indoor/ Outdoor Wired Remote Temperature Sensor
A01-09-0001-01	TWS Wireless Temperature Sensor
A05-13-0001-01	ARC Door/ Window Contact (requires A02-01-0129-02 Accessory Cable)
A07-05-0001-01	Key Card Holder, 24VDC, for vacancy detection, HKSWP-LX
A07-01-0403-01	<i>autaniNet</i> Wireless Range Extender. Includes 24VDC Power Supply with parallel blade plug.
A07-01-0403-02	<i>autaniNet</i> Wireless Range Extender. Requires 24VDC Power Supply (not included).



Indoor use only

DIMENSIONS:



Autani, LLC

TEL (443) 320-2233

FAX (240) 755-0092

www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

The Autani *MINI* Wireless Motion Sensor is an easy to install, compact, high performance motion sensor with integrated wireless transceiver that uses the *autaniNet* wireless mesh network to connect to Autani *Manager* appliances and other *EnergyCenter* devices.

The *MINI* detects changes in infrared radiation that occur when there is movement by a person (or object) which is different in temperature from the surroundings.

Autani *MINI* Wireless Motion Sensors are available with Standard, Slight, Spot, and 10m detection patterns. The *MINI* quickly mounts to a wall or ceiling using included hardware kit.

Motion detected by the *MINI* Wireless Motion Sensor is used by Autani's powerful *EnergyCenter* family of Integrated Energy Management software applications and hardware to trigger changes in lighting, load, plug load, and HVAC systems.

APPLICATIONS:

MINI Wireless Motion Sensors are suitable for renovation, upgrade, and new construction projects where individual fixture control and/or monitoring is desired.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Discreet, attractive, low-profile design
- High performance, compact passive infrared motion sensor with wireless connectivity
- No control wiring required! *autaniNet* secure wireless 2.4GHz communications with Autani *Manager* and other network devices
- Standard, Slight, Spot, and 10m detection patterns available
- Multiple sensors can be located in the same room to increase coverage area or to accommodate special room shapes
- Includes multi position mounting bracket for wall or ceiling installation
- Quad type pyroelectric element provides precise detection, even of small movements
- Quick and easy to install
- **Designed & Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
 TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

ELECTRICAL

- ◆ Input Voltage: 2 AA batteries

ENVIRONMENTAL

- ◆ Operating Temperature: 0° to 60°C
- ◆ Storage Temperature: -25° to 80°C

DETECTION RANGE

- ◆ 10m Detection: 110° x 93°, 10m (32.808ft) max.

DETECTION CONDITIONS

- ◆ Detectable temperature difference between target and background is more than 4°C.
- ◆ Movement Speed/ 10m: 0.5 to 1.5 m/s

RADIO NETWORK (*autaniNet*)

- ◆ IEEE 802.15.4-2003 2.4GHz ISM
- ◆ Range: Approx. 100' LOS transmit/ receive from any line powered autaniNet device

REGULATORY APPROVALS

- ◆ FCC (V8NWT1000119)
- ◆ IC (7737A-WAT1000119)

PHYSICAL

Dimensions without mounting hardware

- ◆ Dimensions (HxWxD): 3.01 x 1.7 x 2.14in
- ◆ Color: White
- ◆ Weight/ Shipping Weight: <10 oz/ <1lb

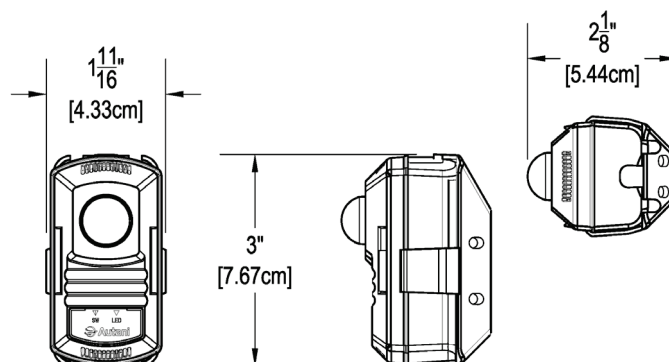


Indoor use only

ORDERING INFORMATION:

SKU	Description
Wall mount sleeve is included. Requires (2) AA batteries (not included).	
A05-01-0115-04	<i>MINI</i> Wireless Motion Sensor
Optional Accessories:	
A11-13-0001-01	Rechargeable Battery Pack with charger
A07-01-0403-01	<i>autaniNet</i> Wireless Range Extender. Includes 24VDC Power Supply with parallel blade plug.
A07-01-0403-02	<i>autaniNet</i> Wireless Range Extender. Requires 24VDC Power Supply (not included).

DIMENSIONS:



Autani, LLC
 TEL (443) 320-2233
 FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

The Autani *MINI* Wireless Contact Sensor is an easy to install, compact, high performance door and window contact sensor with an integrated wireless transceiver that uses the *autaniNet* wireless mesh network to connect to Autani *Manager* appliances and other *EnergyCenter* devices.

The *MINI* Contact Sensor quickly mounts to doors and windows. As a door or window is opened, the contact sensor detects changes in proximity to the remote magnetic sensor and will automatically set back HVAC using user-defined rules. When the contact sensor detects that doors and windows are closed, HVAC will resume with the previously set schedule.

Contact detected by the *MINI* Wireless Contact Sensor is used by Autani's powerful *EnergyCenter* family of Integrated Energy Management software applications and hardware to trigger changes in HVAC, lighting, load, and plug load.

APPLICATIONS:

MINI Wireless Contact Sensors are suitable for renovation, upgrade, and new construction projects.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Discreet, attractive, low-profile design
- High performance, compact contact sensor with wireless connectivity for attachment to doors, windows, etc.
- No control wiring required! *autaniNet* secure wireless 2.4GHz communications with Autani *Manager* and other network devices
- Multiple sensors can be located in the same room to optimize HVAC control
- Long battery life—up to 2 year battery life with standard AA batteries
- Low battery detection, with optional email alert when used with StatCenter software
- Quick and easy to install
- FCC Certified
- **Designed & Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

ELECTRICAL

- ◆ Input Voltage: 2 AA batteries

ENVIRONMENTAL

- ◆ Operating Temperature: 0° to 60°C
- ◆ Storage Temperature: -25° to 80°C

DETECTION RANGE

- ◆ Up to 1 inch separation

RADIO NETWORK (*autaniNet*)

- ◆ IEEE 802.15.4-2003 2.4GHz ISM
- ◆ Range: Approx. 100' LOS transmit/ receive from any line powered autaniNet device

REGULATORY APPROVALS

- ◆ FCC (V8NWAT1000119)
- ◆ IC (7737A-WAT1000119)

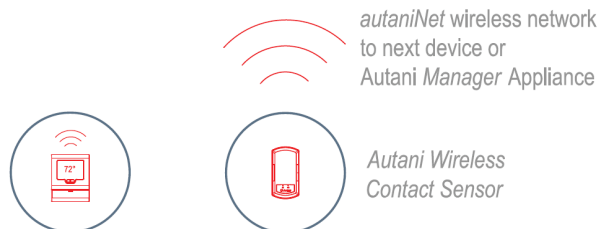
PHYSICAL

- ◆ Dimensions (HxWxD): 3.01 x 1.19 x 1.56in
- ◆ Color: White
- ◆ Weight/ Shipping Weight: <10 oz/ <1lb



Indoor use only

ONE-LINE DIAGRAM:



Contact Sensor is to be associated with a local Autani Wireless Thermostat

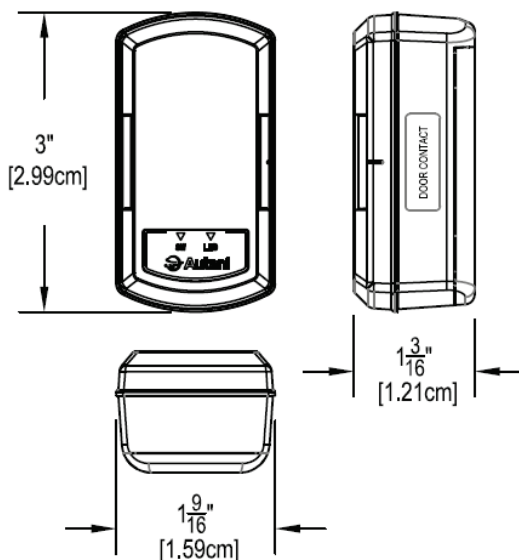
ORDERING INFORMATION:

SKU	Description
A05-01-0100-01	MINI Wireless Door/ Window Contact Sensor (Includes magnetic contact)

Optional Accessories:

SKU	Description
A11-13-0001-01	Rechargeable Battery Pack with charger
A07-01-0403-01	<i>autaniNet</i> Wireless Range Extender. Includes 24VDC Power Supply with parallel blade plug.
A07-01-0403-02	<i>autaniNet</i> Wireless Range Extender. Requires 24VDC Power Supply (not included).

DIMENSIONS:



Autani, LLC
TEL (443) 320-2233
FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

Autani Wireless Temperature Sensors feature an integrated wireless transceiver—eliminating the need for control wiring. Available in multiple configurations including bullet, strap, outdoor, and refrigerator, the sensor monitors and reports temperatures to the Autani *EnergyCenter* software. With wide sensing ranges and multiple mounting options, this sensor can support an array of temperature monitoring applications.

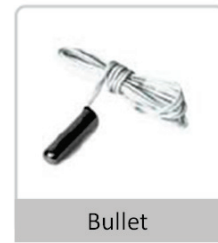
A thermistor type sensor, Autani's Wireless Temperature Sensors provide a predictable output over a specified temperature range to meet the customer's application specific input values.

A part of Autani's *EnergyCenter* family of devices, the Wireless Temperature Sensors use the *autaniNet* wireless mesh network to communicate with other Autani devices to trigger changes in HVAC, generate alerts of monitored conditions, or simply record values for required documentation.

APPLICATIONS:

Autani's Wireless Temperature Sensors are suitable for renovation, upgrade, and new construction projects.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



Bullet



Strap



Outdoor



Refrigerator



FEATURES:

- Compact temperature sensor with wireless connectivity
- High accuracy and interchangeability over a wide temperature range
- No control wiring required! *autaniNet* secure wireless 2.4GHz communications with Autani *Manager* and other network devices
- High resistance relative to Platinum RTDs creates a larger signal with the same measuring current, negating most lead wire resistance problems and eliminating the need for signal conditioners.
- Double-encapsulated sensing element to avoid sensor failures caused by moisture infiltration
- **Designed & Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
 TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

SENSOR OUTPUT

- ♦ *autaniNet* messages for EnergyCenter

ENVIRONMENTAL (TRANSCIVER)

- ♦ Operating Temperature: 0° to 50°C
- ♦ Operating Humidity: 0 to 90% RH non-condensing

ACCURACY (0 to 70°C)

- ♦ +/- 0.2°C (+/- 0.36°F)

STABILITY

- ♦ +/- 0.13°C (0.23°F)

MEASUREMENT RANGE

- ♦ -40° to 150°C / -40° to 302°F

INTERCHANGEABILITY

- ♦ +/- 0.2°C (+/- 0.36°F)

RADIO NETWORK (*autaniNet*)

- ♦ IEEE 802.15.4-2003 2.4GHz ISM
- ♦ Range: Approx. 1000' LOS transmit/ receive from any line powered autaniNet device

REGULATORY APPROVALS

- ♦ FCC (V8NZRB1000141)
- ♦ IC (7737A-ZRB1000141)

ORDERING INFORMATION:

SKU	Description
A05-02-1106-01	Autani Wireless Bullet Probe Temperature Sensor
A01-02-1171-01	Autani Wireless Strap-On Temperature Sensor
A05-02-1105-01	Autani Wireless Outdoor Temperature Sensor
A05-02-1103-01	Autani Wireless Refrigerator Temperature Sensor
A05-02-1103-02	Autani Wireless Refrigerator Temperature Sensor with glycol bottle
A05-02-1104-01	Autani Wireless Freezer Temperature Sensor with glycol bottle
A01-01-0141-01	Autani Wireless Duct Temperature Sensor (requires 24v AC/DC power supply, by others)
A01-02-0141-31	Autani Wireless Probe Temperature Sensor, 8", NIST Certified
A01-28-0141-32	Autani Wireless Probe Temperature Sensor, 12", NIST Certified
A05-01-0120-01	Autani Wireless Stack Temp Sensor Probe
A05-28-0121-01	Autani Wireless Pressure Kit, +/- 0.1" Water Column Sensor, 10' Tube, Pickup Port
A05-02-1100-01	Autani Wireless Humidity Sensor (+/-3% accuracy)
A05-02-1101-01	Autani Wireless Differential Pressure Sensor, 0-2" – Filter Monitoring
A05-02-1102-01	Autani Wireless Differential Pressure Sensor, 0-3" – Static Pressure
A01-02-1146-01	Autani Wireless Wall Plate Temperature Sensor



Autani, LLC
 TEL (443) 320-2233
 FAX (240) 755-0092
www.autani.com



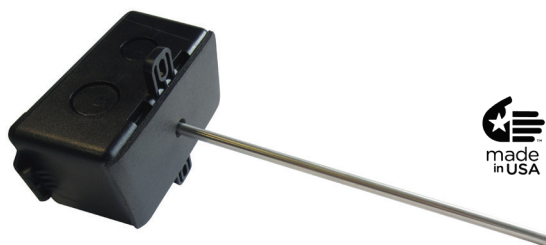
This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

The Autani Wireless Duct Temperature Sensor is a 24V, in-duct temperature probe featuring an integrated wireless transceiver—eliminating the need for control wiring. The sensor monitors supply and return air temperatures. It can also be used to sense temperature from ambient air.

A thermistor type sensor, the Wireless Duct Temperature Sensor provides a predictable output over a specified temperature range to meet each manufacturer's required input values.

A part of Autani's *EnergyCenter* family of devices, the Wireless Duct Temperature Sensor uses the *autaniNet* wireless mesh network to communicate with other Autani devices to trigger changes in HVAC.



APPLICATIONS:

Wireless Duct Temperature Sensors are suitable for renovation, upgrade, and new construction projects.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores

FEATURES:

- Compact temperature probe with wireless connectivity
- High accuracy and interchangeability over a wide temperature range
- No control wiring required! *autaniNet* secure wireless 2.4GHz communications with Autani *Manager* and other network devices
- High resistance relative to Platinum RTDs creates a larger signal with the same measuring current, negating most lead wire resistance problems and eliminating the need for signal conditioners.
- Double-encapsulated sensing element to avoid sensor failures caused by moisture infiltration
- Designed & Made in the USA

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

SENSOR OUTPUT

- ♦ *autaniNet* messages for EnergyCenter

ENVIRONMENTAL

- ♦ Operating Temperature: 0° to 60°C
- ♦ Operating Humidity: 0 to 90% RH non-condensing

ACCURACY (0 to 70°C)

- ♦ +/- 0.2°C (+/- 0.36°F)

STABILITY

- ♦ +/- 0.13°C (0.23°F)

POWER DISSIPATION CONSTANT

- ♦ 3 mW / °C

INTERCHANGEABILITY

- ♦ +/- 0.2°C (+/- 0.36°F)

RADIO NETWORK (*autaniNet*)

- ♦ IEEE 802.15.4-2003 2.4GHz ISM
- ♦ Range: Approx. 1000' LOS transmit/ receive from any line powered *autaniNet* device

REGULATORY APPROVALS

- ♦ FCC (V8NZRB1000141)
- ♦ IC (7737A-ZRB1000141)

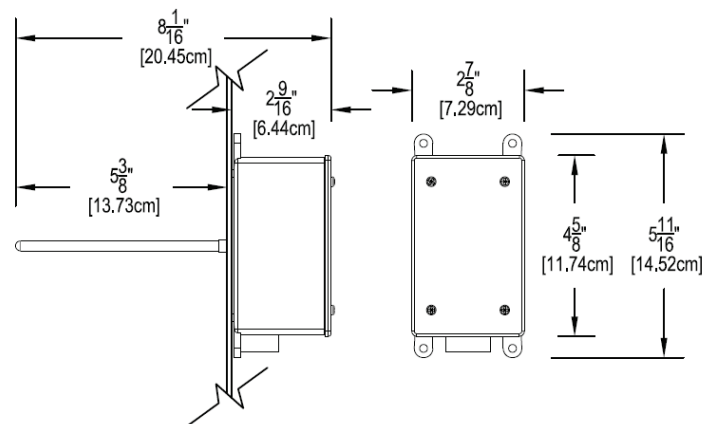


Indoor use only

ORDERING INFORMATION:

SKU	Description
A01-01-0141-01	<i>EnergyCenter</i> Wireless Duct Temperature Sensor <i>Requires 24VDC power supply</i>
Optional Accessories:	
Optional configurations for strap on, immersion, wall mount, and bullet probe are also available.	

DIMENSIONS:



Autani, LLC

TEL (443) 320-2233

FAX (240) 755-0092

www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

Autani's *SmartLet* integrates automatic receptacle control with *EnergyCenter's* full complement of controls offerings, including dimming, switching and HVAC control. The Outlet Controller switches 120VAC receptacles ON or OFF based upon occupancy, schedules, and demand response events. *SmartLet* is attached to 15 or 20amp 120VAC duplex receptacles, which power the device.

The Autani *SmartLet* Outlet Controller is wirelessly configured, scheduled, and controlled by an Autani *Manager* appliance running *EnergyCenter* software. Dynamic scheduling allows the user to define ON and OFF events for receptacles, as well as periods governed by occupancy rules. Timeouts to switch off loads in unoccupied spaces are easily set per schedule or event, and can vary throughout the day.

SmartLet, when used in conjunction with Autani's *EMC* Networked PC Energy Management Client Software, can be used to switch off power to computers, monitors, and accessories after networked Windows PCs have been correctly shut down. Connectivity between *SmartLet*, Autani *Manager*, and other *EnergyCenter* devices is via the secure, reliable *autaniNet* wireless mesh network.

APPLICATIONS:

The SmartLet Outlet Controller provides automatic receptacle control as required by ASHRAE 90.1 2010 Section 8.4.2. It is suitable for renovation, upgrade, and new construction projects.

- Private & Open Offices
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Easy-to-install automatic receptacle control for 120VAC 15 or 20amp outlets suitable for new construction and upgrade projects
- Integrated, mechanically switched relay controls one or both receptacles by any combination of schedule, occupancy/ vacancy, demand response, and activity of plug loads
- Occupancy sensors and scheduling are shared with ARC and AFC series lighting controllers
- Local over-ride to manually switch receptacles ON or OFF with LED status indicators
- On-board energy monitoring to measure and track power consumption of plug loads in real time
- Remote shut down of Windows PCs and accessories when used with *EMC* Networked PC Energy Management Client Software
- Fail safe operation maintains local control of receptacles at all times
- *autaniNet* secure wireless 2.4GHz communications with other network devices
- UL, FCC, and IC certified
- **Designed & Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

ELECTRICAL

- ♦ Load Capacity: 15A @ 120VAC
- ♦ Input Voltage: 120VAC typ.
- ♦ Max. Switching Power: 1800VA

RADIO NETWORK (*autaniNet*)

- ♦ IEEE 802.15.4-2003 2.4GHz ISM
- ♦ Range: Approx. 600' LOS transmit/ receive

REGULATORY APPROVALS

- ♦ UL 916 and UL 514C
- ♦ Contains FCC Certified Module:
- ♦ FCC ID: V8NWAT1000142
- ♦ IC: 7737A-WAT1000142

ENVIRONMENTAL

Test condition of all ratings 25°C

- ♦ Operating Temperature: 0° to 60°C
- ♦ Storage Temperature: -25° to 80°C

PHYSICAL

- ♦ Dimensions (HxWxD): 6.05 x 4.2 x 1.31in
- ♦ Color: White
- ♦ Weight: < 1lb



Indoor use only



ORDERING INFORMATION:

SKU	Description
A07-01-0151-01	<i>SmartLet</i> Outlet Controller with (2) receptacles managed by (1) relay
A07-01-0150-01	<i>SmartLet</i> Outlet Controller with (1) receptacle managed by (1) relay and (1) constant power receptacle

Optional Accessories:

SKU	Description
A08-01-0198-01	<i>EMC</i> Networked PC Energy Management Client Software
A07-01-0403-01	<i>autaniNet</i> Wireless Range Extender. Includes 24VDC Power Supply with parallel blade plug.
A07-01-0403-02	<i>autaniNet</i> Wireless Range Extender. Requires 24VDC Power Supply (not included).

Occupancy/ Vacancy Sensors:

SKU	Description
A05-01-0115-04	<i>MINI</i> Wireless Motion Sensor, 10m Detection
A05-01-0111-16	<i>MINI</i> Wired Motion Sensor, 10m Detection
• <i>MINI</i> Wireless motion sensors connect via <i>autaniNet</i> when used with <i>EnergyCenter</i>. • <i>MINI</i> Wired and third party motion sensors connect via an <i>ARC</i> room controller when used with <i>EnergyCenter</i>.	

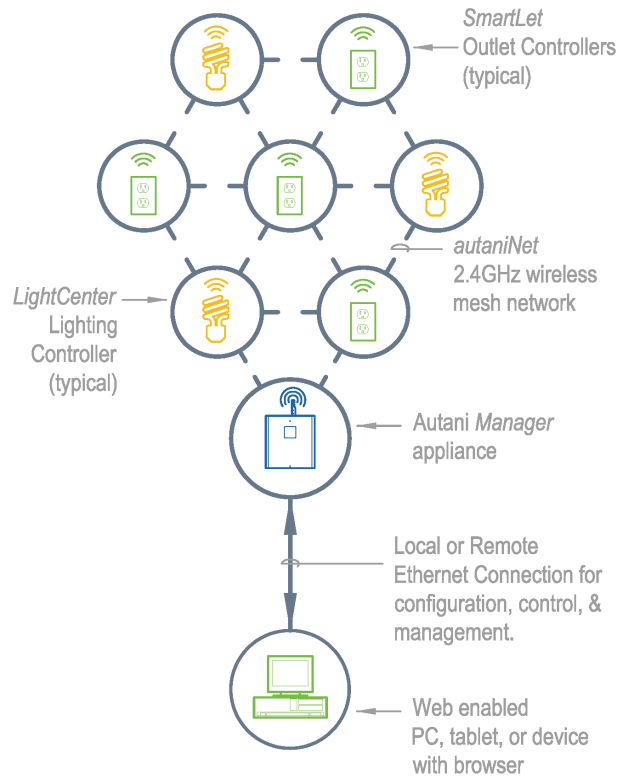


Autani, LLC
 TEL (443) 320-2233
 FAX (240) 755-0092
www.autani.com

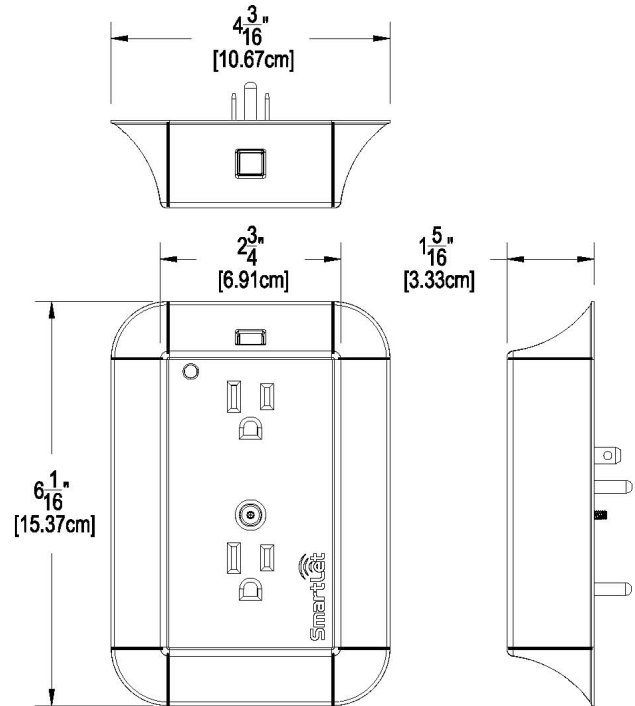


This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

ONE-LINE DIAGRAM:



DIMENSIONS:



The EnergyCenter Family

It all centers on energy management

Autani's *EnergyCenter* product line integrates lighting, climate control, fans, metering, and plug loads to provide a powerful integrated energy management solution. *LightCenter*, *StatCenter*, *FanCenter*, *MeterCenter*, and *PLUS* software share the Autani *Manager* appliance and operate as an integrated application.

EnergyCenter software communicates via the Autani *Manager* to lighting controllers, motion sensors, thermostats, fans, meters, and more using *autaniNet*, a secure wireless 2.4GHz communications network.

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



THIS PAGE INTENTIONALLY LEFT BLANK



Autani, LLC
TEL (443) 320-2233
FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

Autani's *EMC* Networked PC Energy Management client centralizes the power management of networked PCs, reducing the energy wasted by powering unused computers. Keyboard or mouse activity can also be used by *LightCenter* as a secondary indicator of occupancy, reducing inappropriate "lights off" events.

Schedules, occupancy status, curtailments, and events are used to determine if a PC should be on, off, in sleep mode, or woken up. Commands are sent via Ethernet from the Autani *Manager* to the PC to put it in the appropriate state based upon user defined rules. When paired with Autani's *SmartLet* Outlet Controller or *DISTRO* Managed Power Strip, the *EMC* client can gracefully power-down networked PCs and then safely switch off power to the computer, monitor, and accessories.

Connectivity between *EMC* PC clients and the Autani *Manager* is via a LAN (Local Area Network). *EMC* requires a client license for each networked PC, and an Autani *Manager* appliance running *PLUS* software.

APPLICATIONS:

The EMC Networked PC Energy Management client is suitable for renovation, upgrade, and new construction projects.

- Private & Open Offices
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Sleep, hibernate, power-down, or power-up network computers based upon schedules, occupancy, events, and curtailments triggered by Autani *Manager*
- PCs are properly shut down from the OS; *EMC* supports recovery of previous operational state
- Once off, *SmartLet* or *DISTRO* controlled power strips can be used to disconnect power to PCs, monitors, printers, and other peripherals
- Keyboard or mouse activity can be assigned as a secondary occupancy indicator and reduce inappropriate "lights out" events
- Small footprint PC client with web-based monitoring and management via *EnergyCenter*
- Comprehensive reporting of energy consumption and savings data
- *autaniNet* secure wireless 2.4GHz communications with network devices
- **Designed & Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
 TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SYSTEM REQUIREMENTS:

- EMC Networked PC Energy Management client requires an appropriately configured Windows PC connected via Ethernet to an Autani *Manager* running *PLUS* software.
- *PLUS* software is an expansion pack for *EnergyCenter* that requires an Autani *Manager* running *EnergyCenter* software.
- Modbus and custom interfaces for other automation systems are available.
- Web access requires Ethernet connectivity and a compatible device with a web browser. Access may vary based on software and services selected.

ORDERING INFORMATION:

SKU	Description
A08-01-0198-01	EMC Networked PC Energy Management Client Software

Optional Accessories:

SKU	Description
A07-01-0151-01	<i>SmartLet</i> Outlet Controller with (2) receptacles managed by (1) relay

The EnergyCenter Family

It all centers on energy management

Autani's *EnergyCenter* product line integrates lighting, climate control, fans, metering, and plug loads to provide a powerful integrated energy management solution. *LightCenter*, *StatCenter*, *FanCenter*, *MeterCenter*, and *PLUS* software share the Autani *Manager* appliance and operate as an integrated application.

EnergyCenter software communicates via the Autani *Manager* to lighting controllers, motion sensors, thermostats, fans, meters, and more using *autaniNet*, a secure wireless 2.4GHz communications network.



Autani, LLC
TEL (443) 320-2233
FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

ORDERING INFORMATION:

SKU	Description
Supported EnOcean wireless accessories are listed below. For additional information, see the individual product's data sheet.	
A02-20-0203-01	4 Channel Room Controller (8-30VDC, 0 Inputs, 4 Outputs, Internal Timer, receives 315 MHz)
A02-22-0216-01	Key-Card Switch
A02-22-0217-01	Occupancy Sensor, Ceiling Mounted
A02-22-0218-01	Occupancy Sensor, Wall Mounted
A02-22-0219-01	Door/Window Sensor
A02-22-0220-01	Single Rocker Pad
A02-22-0221-01	Double Rocker Pad

The EnergyCenter Family

It all centers on energy management

Autani's *EnergyCenter* product line integrates lighting, climate control, fans, metering, and plug loads to provide a powerful integrated energy management solution. *LightCenter*, *StatCenter*, *FanCenter*, *MeterCenter*, and *PLUS* software share the Autani *Manager* appliance and operate as an integrated application.

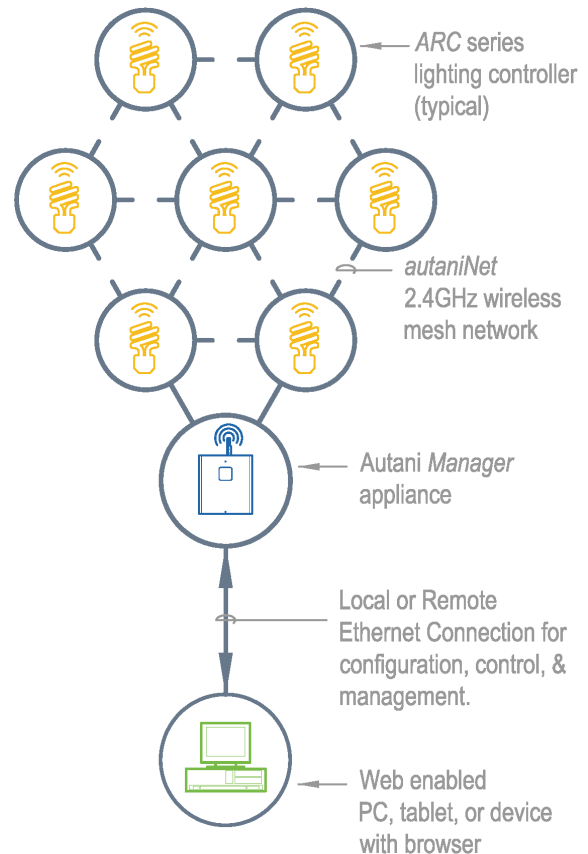
EnergyCenter software communicates via the Autani *Manager* to lighting controllers, motion sensors, thermostats, fans, meters, and more using *autaniNet*, a secure wireless 2.4GHz communications network.



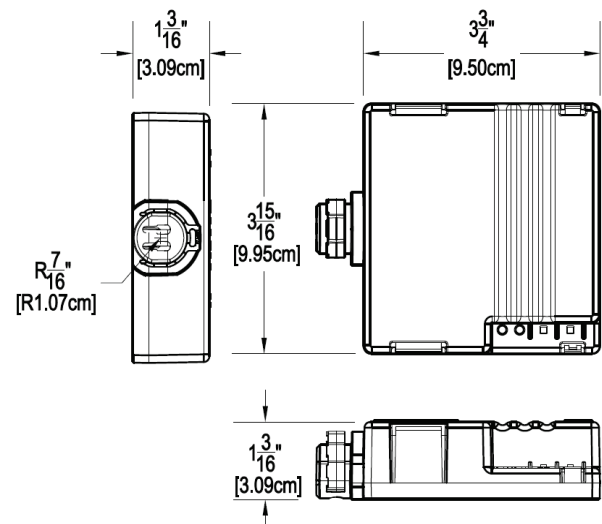
Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com

ONE-LINE DIAGRAM:



DIMENSIONS:



THIS PAGE INTENTIONALLY LEFT BLANK



Autani, LLC
TEL (443) 320-2233
FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

The Autani *E50C2* Packaged Meter is a power monitoring device featuring revenue grade measurement and wireless communication. The Packaged Meter is for use with Autani's *MeterCenter* measurement and verification software, and can add real-time energy monitoring to an *EnergyCenter* Integrated Energy Management solution that includes lighting and HVAC.

The *E50C2* is compatible with voltage ranges from 100-277VAC and features load sensing from 5A to 32,000A. The meter is provided as a self-contained unit in a NEMA-4 enclosure with locking door. Featuring accurate revenue grade measurement, the *E50C2* is used in conjunction with *MeterCenter* software to measure and track energy use for a specific area, load type, or building.

Communication with other Autani Meters, the Autani *Manager* appliance running *MeterCenter* software, and other *EnergyCenter* devices (such as lighting and HVAC controls) is via *autaniNet*, a reliable wireless mesh network.

APPLICATIONS:

E50C2 packaged meters are suitable for renovation, upgrade, and new construction projects.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Compact solution for monitoring energy consumption per panel, circuit, or feed for a facility or campus
- Easy to install wall-mounted, locking enclosure
- Compatible with voltages from 100-277VAC, 50-60Hz
- Available Current Transformers (CTs) from 5A to 32,000A
- Revenue grade cost allocation with ANSI C12.20 0.5% accuracy (IEC 62053-22 Class 0.5S)
- *autaniNet* secure wireless 2.4GHz communications with other network devices
- Easy way to add metering & verification to Autani *StatCenter* and *LightCenters* systems
- Assembled with UL and CE Listed components
- **Designed & Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

INPUTS

- ♦ Voltage Input: 100-277VAC
- ♦ Current Input Scaling: 5A to 32,000A
- ♦ Input Range: 0 to 0.333V or 0 to 1V (selectable)

INPUT VOLTAGE CHARACTERISTICS

- ♦ Measured AC Voltage: 100-277VAC
- ♦ Metering Over-Range: +20%
- ♦ Impedance: 2.5 M Ω -N / 5 M Ω -L
- ♦ Frequency Range: 50-60Hz

INPUT CURRENT CHARACTERISTICS

- ♦ CT Scaling/ Primary: Adj. from 5A to 32,000A
- ♦ Measurement Input Range: 0 to 0.333VAC or 0 to 1.0VAC (+20% over-range)
- ♦ Impedance: 10.6 k Ω (1/3V mode) or 32.1 k Ω (1V mode)

ACCURACY

- ♦ Real Power and Energy: 0.5% (ANSI C12.20, IEC 62053-22 Class 0.5S)
- ♦ Reactive Power and Energy: IEC 62053-23 Class 2, 2% Current
- ♦ Current: 0.4% (+0.015% per °C deviation from 25°C) from 5% to 100% of range; 0.8% (+0.015% per °C deviation from 25°C) from 1% to 5% of range
- ♦ Voltage: 0.4% (+0.015% per °C deviation from 25°C) from 90VL-N to 600VACL-L
- ♦ Sample Rate: 2520 samples per second
- ♦ Data Update Rate: 1 sec
- ♦ Type of Measurement: True RMS up to the 21st harmonic 60Hz, one to three phase AC system

RADIO NETWORK (*autaniNet*)

- ♦ IEEE 802.15.4-2003 2.4GHz ISM
- ♦ FCC ID: V8NZRB1000141 & IC: 7737A-ZRB1000141
- ♦ Range: Approx. 1000' LOS transmit/receive

ENVIRONMENTAL

- ♦ Operating Temperature: -30° to 60°C (-22° to 158°F)
- ♦ Storage Temperature: -40° to 85°C (-40° to 185°F)
- ♦ Humidity Range: <95% Relative Humidity, noncondensing
- ♦ Altitude of Operation: 3 km max.

PHYSICAL

- ♦ Dimensions (HxWxD): 7.06 x 7.19 x 4.75 in
- ♦ Color: White case with smoked transparent door
- ♦ Weight: 2.5lbs / Mounting: NEMA 4 enclosure

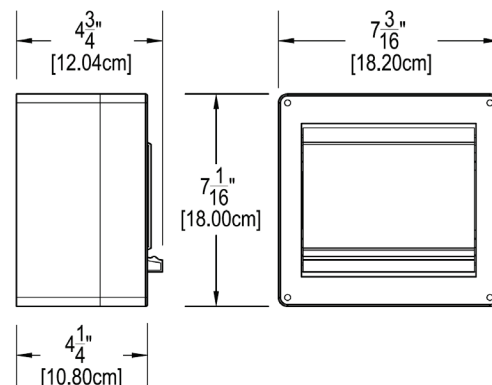
METERING CATEGORY

- ♦ US and Canada: CAT III; for distribution systems up to 347 VL-N/ 600VACL-L
- ♦ Dielectric Withstand: Per UL 508, EN61010
- ♦ Conducted and Radiated Emissions: FCC part 15 Class B, EN55011/EN61000 Class B (residential and light industrial)
- ♦ Conducted and Radiated Immunity: EN61000 Class A (heavy industrial)

ORDERING INFORMATION:

SKU	Description
A03-10-0145-01	E50C2 Packaged Meter Power/ Energy Monitor with wireless communication <i>Requires (1) CT per phase</i>
Optional Accessories:	
A03-10-0421-01	H6810-100A-.3V Split Core CT
A03-10-0422-01	H6810-200A-.3V Split Core CT
A03-10-0423-01	H6810-300A-.3V Split Core CT
A03-10-0423-02	H6811-400A-.3V Split Core CT
A03-10-0423-03	H6811-600A-.3V Split Core CT
A03-10-0423-04	H6811-800A-.3V Split Core CT
A03-10-0423-05	H6812-1000A-.3V Split Core CT
A03-10-0423-06	H6812-1600A-.3V Split Core CT
A03-10-0423-07	H6812-2000A-.3V Split Core CT
A03-10-0423-08	H6812-2400A-.3V Split Core CT

DIMENSIONS:



Autani, LLC
 TEL (443) 320-2233
 FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

The Autani *Pulse Counter* Meter Interface wirelessly monitors pulse meters to accurately determine energy consumption. Designed to support gas and electricity pulse metering, the *Pulse Counter* uses a wireless transceiver connected to a pulse-output device to report energy consumption. Users can then view energy consumption through Autani's *MeterCenter* measurement and verification software.

From the *Pulse Counter's* software interface on *MeterCenter*, a user is able to configure a pulse meter by identifying the type of meter and what each pulse means. For example, a user may define that a pulse meter is "Gas Metering" with 1 pulse equal to 0.01 therms, or that a pulse meter is "Electricity Metering" with 1 pulse equal to 1 kWh. Once a meter is properly configured, the energy consumption reported by the pulse meter is stored for view and analysis.

Communication with meters, the Autani *Manager* appliance running *MeterCenter* software, and other *EnergyCenter* devices (such as lighting and HVAC controls) is via *autaniNet*, a reliable wireless mesh network.

APPLICATIONS:

Pulse Counter Meter Interface is suitable for renovation, upgrade, and new construction projects.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Wireless interface to remotely collect energy consumption information from pulse meters
- Real-time alerts when daily consumption goes over a user-defined threshold
- Suitable for gas and electricity pulse metering
- Monitor and verify energy consumption with up-to-the-minute data represented through charts, graphs, and reports
- Easy-to-use interface allows users to configure pulse meters quickly and accurately to receive immediate feedback on energy usage
- *autaniNet* secure wireless 2.4GHz communications with other network devices
- Easy way to add metering & verification to Autani *EnergyCenters* systems
- **Designed & Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
 TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

ELECTRICAL

- ◆ Input Voltage (V_{dd}): 9 to 40VDC, 9 to 28VAC
- ◆ Input Current (I_{dd}): 45mA typ., 60mA max.

RADIO NETWORK (*autaniNet*)

- ◆ IEEE 802.15.4-2003 2.4GHz ISM
- ◆ Range: Approx. 1000' LOS transmit/ receive

REGULATORY APPROVALS

- ◆ FCC (V8NZRB1000141)
- ◆ IC (7737A-ZRB1000141)

ENVIRONMENTAL

Test condition of all ratings 25°C

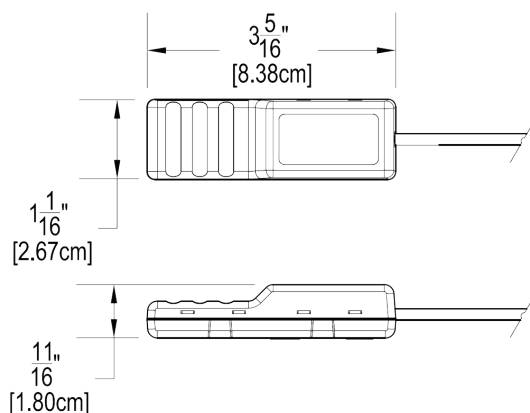
- ◆ Operating Temperature: 0° to 60°C
- ◆ Storage Temperature: -25° to 80°C

PHYSICAL

- ◆ Dimensions (HxWxD): 3.35 x 1.07 x .71in
- ◆ Color: White
- ◆ Weight/ Shipping Weight: <10 oz/ <1lb



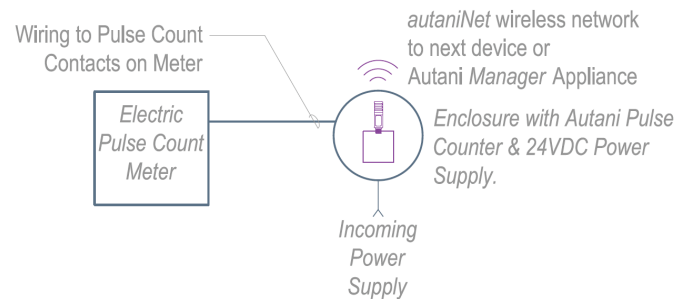
DIMENSIONS:



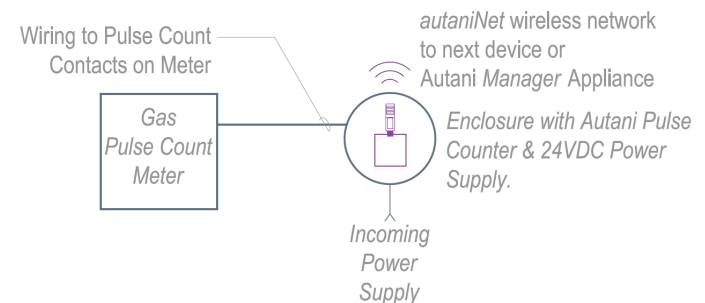
ORDERING INFORMATION:

SKU	Description
A03-01-0001-01	Autani MeterCenter <i>Pulse Counter</i> Meter Interface <i>Requires 24VDC power supply</i>

ELECTRIC METER INTERFACE:



GAS METER INTERFACE:



Autani, LLC
TEL (443) 320-2233
FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

The Airius Air Pear Model 45 is a wirelessly managed destratification fan. These fans form the foundation of an Air Pear Thermal Equalizer System that reduces energy consumption by increasing the efficiency of heating and cooling systems.

Stratification, or temperature layering, occurs when there is minimal air movement within an enclosed building space. Heat (naturally or artificially generated) rises to the ceiling while cold air sinks to the floor. Temperatures can increase up to 1°F per foot of building elevation.

In cold weather, destratification redirects hot air from the ceiling to the floor, recycling existing heat and reducing energy consumption. In moderate or warm weather, destratification reduces temperature differentials within the space and increases the efficiency of HVAC systems.

As a network device, the Airius Air Pear is controlled by an Autani *Manager* appliance running *FanCenter* software. *FanCenter* manages the speed, direction, and run-time of destratification fans based upon schedules and demand response requests.

APPLICATIONS:

FanCenter is a managed system of thermal destratification fans that reduces energy consumption by increasing the efficiency of heating and cooling systems.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Destratification & Thermal Equalization can reduce energy consumption up to 30% or more
- Suitable for mounting height of 25-45 ft with up to 1500 ft² of coverage per unit (44 ft diameter)
- A properly applied array of units can achieve temperature balance within 0° to 3°F
- Control and monitoring of speed, direction, and run time via *FanCenter* software
- *autaniNet* secure wireless 2.4GHz communications with network devices
- Real-time alerting for user defined and system events via email or smart phone
- Easy installation for connection to building structure; drop ceiling mounting kit available
- Meets LEED EA Credit, "Optimize Energy Performance"
- Manufactured from recyclable material and shipped in recyclable corrugated packaging
- **Designed & Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

MOTOR

- ♦ 115V or 230/277V, 0 - 79 dB(A)
- ♦ Watts: 0-170 @ 115V / 0-175 @ 230/277V
- ♦ RPM: 0-2850 @ 115V / 0-3050 @ 230/277V
- ♦ CFM: 0-1180 @ 115V / 0-1290 @ 230/277V
(m³/hr): 0-2004 @ 115V / 0-2191 @ 230/277V
- ♦ AMPS: 0-2.2 @ 115V / 0-1.4 @ 230/277V
- ♦ Shutoff: 275°F (135°C); Reset: 255°F (125°C)
- ♦ No lubrication required; bearings are sealed

HOUSING

- ♦ Weight: 14lbs (6.4kgs); Diameter: 15in (380mm)
- ♦ Height to Rim: 18in (457mm); Total Height: 24in (610mm)

COVERAGE

- ♦ Up to 1500ft² or a 44ft coverage diameter with a mounting height up to 45ft

RADIO NETWORK (*autaniNet*)

- ♦ IEEE 802.15.4-2003 2.4GHz ISM
- ♦ Range: Approx. 1000' LOS transmit/ receive

REGULATORY APPROVALS

- ♦ UL Standard 507 for Safety Electric Fans
- ♦ ETL certified fan and components
- ♦ 5VA flame resistance rating
- ♦ RoHS compliant

LIMITATIONS

- ♦ Mounting height up to 45ft
- ♦ Do not install in environments open to the elements

GENERAL

- ♦ Color(s): Gray, Cool Gray
- ♦ Outer shell and stator: Fire rated 5VA materials
- ♦ Power cord: 3 wire 18 AWG (or 16 AWG) 300VAC rated electrical cord (UL rated as SJT)
- ♦ 115VAC version comes with molded 3-prong plug
- ♦ 230/277VAC versions do not have a plug supplied
- ♦ Warranty: 3-years from shipping date

SAFETY PRECAUTIONS PROVIDED

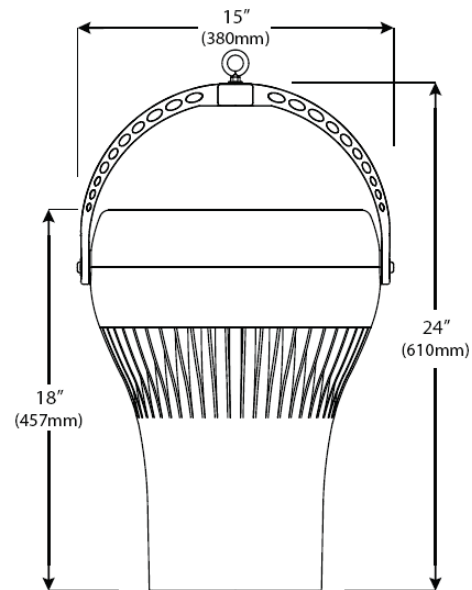
- ♦ Seismic restraint point for earthquake codes
- ♦ Thermal overload protection



Indoor use only

ORDERING INFORMATION:

SKU	Description
A01-08-0045-03	Model 45 - 115V-EL-LISA with <i>autaniNet</i> wireless control
A01-08-0045-04	Model 45 - 230/277V-EL-LISA with <i>autaniNet</i> wireless control
A01-08-0045-01	Model 45 - 115V-EL-LISA with <i>autaniNet</i> wired control
A01-08-0045-02	Model 45 - 230/277V-EL-LISA with <i>autaniNet</i> wired control
A01-08-0001-01	Suspended Ceiling Kit - Model 45 (allows for mounting in dropped ceiling grid)
A01-08-0002-01	PHI Photohydroionization™ Kit



May be covered by one or more of the following United States Patents: 7,381,129 B2; D514688 and other patents pending. AIRIUS®, AIR PEAR®, and THE THERMAL EQUALIZER® are trademarks of Airius, LLC, registered in the U.S. and in some countries abroad. Other trademarks pending in the U.S. and abroad.



Autani, LLC
TEL (443) 320-2233
FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

The Airius Air Pear Model 60 is a wirelessly managed destratification fan. These fans form the foundation of an Air Pear Thermal Equalizer System that reduces energy consumption by increasing the efficiency of heating and cooling systems.

Stratification, or temperature layering, occurs when there is minimal air movement within an enclosed building space. Heat (naturally or artificially generated) rises to the ceiling while cold air sinks to the floor. Temperatures can increase up to 1°F per foot of building elevation.

In cold weather, destratification redirects hot air from the ceiling to the floor, recycling existing heat and reducing energy consumption. In moderate or warm weather, destratification reduces temperature differentials within the space and increases the efficiency of HVAC systems.

As a network device, the Airius Air Pear is controlled by an Autani *Manager* appliance running *FanCenter* software. *FanCenter* manages the speed, direction, and run-time of destratification fans based upon schedules and demand response requests.

APPLICATIONS:

FanCenter is a managed system of thermal destratification fans that reduces energy consumption by increasing the efficiency of heating and cooling systems.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Destratification and Thermal Equalization can reduce energy consumption up to 30% or more
- Suitable for mounting height of 25-60 ft with up to 2000 ft² of coverage per unit (50 ft diameter)
- A properly applied array of units can achieve temperature balance within 0° to 3°F
- Control and monitoring of speed, direction, and run time via *FanCenter* software
- *autaniNet* secure wireless 2.4GHz communications with network devices
- Real-time alerting for user defined and system events via email or smart phone
- Easy installation for connection to building structure; drop ceiling mounting kit available
- Meets LEED EA Credit, "Optimize Energy Performance"
- Manufactured from recyclable materials and shipped in recyclable corrugated packaging
- **Designed & Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

MOTOR

- ♦ 115V or 230/277V, 0 - 68 dB(A)
- ♦ Watts: 0-170 @ 115V / 0-170 @ 230/277V
- ♦ RPM: 0-1660 @ 115V / 0-1630 @ 230/277V
- ♦ CFM: 0-1825 @ 115V / 0-1770 @ 230/277V
(m³/hr): 0-3100 @ 115V / 0-3007 @ 230/277V
- ♦ AMPS: 0-2.2 @ 115V / 0-1.3 @ 230/277V
- ♦ Shutoff: 275°F (135°C); Reset: 255°F (125°C)
- ♦ No lubrication required; bearings are sealed

HOUSING

- ♦ Weight: 22lbs (10kgs); Diameter: 18.25in (464mm)
- ♦ Height to Rim: 24in (610mm); Total Height: 32in (813mm)

COVERAGE

- ♦ Up to 2000ft² or a 50ft coverage diameter with a mounting height up to 60ft

RADIO NETWORK (*autaniNet*)

- ♦ IEEE 802.15.4-2003 2.4GHz ISM
- ♦ Range: Approx. 1000' LOS transmit/ receive

REGULATORY APPROVALS

- ♦ UL Standard 507 for Safety Electric Fans
- ♦ ETL certified fan and components
- ♦ 5VA flame resistance rating
- ♦ RoHS compliant

LIMITATIONS

- ♦ Mounting height up to 60ft
- ♦ Do not install in environments open to the elements

GENERAL

- ♦ Color(s): Gray, Cool Gray
- ♦ Outer shell and stator: Fire rated 5VA materials
- ♦ Power cord: 3 wire 18 AWG (or 16 AWG) 300VAC rated electrical cord (UL rated as SJT)
- ♦ 115VAC version comes with molded 3-prong plug
- ♦ 230/277VAC versions do not have a plug supplied
- ♦ Warranty: 3-years from shipping date

SAFETY PRECAUTIONS PROVIDED

- ♦ Seismic restraint point for earthquake codes
- ♦ Thermal overload protection

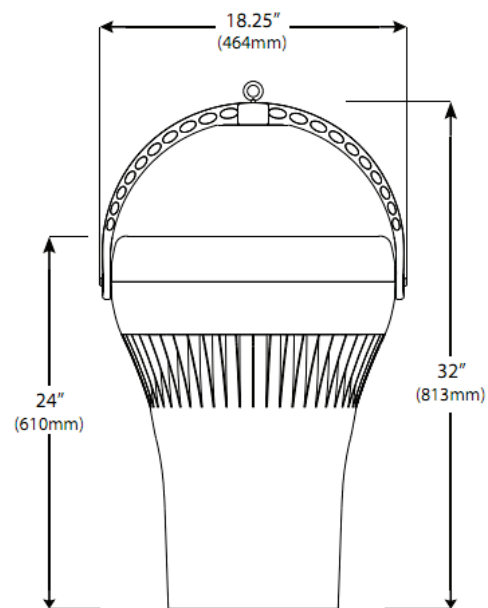


Indoor use only

ORDERING INFORMATION:

SKU	Description
A01-08-0060-03	Model 60 – 115V-EL-LISA with <i>autaniNet</i> wireless control
A01-08-0060-04	Model 60 – 230/277V-EL-LISA with <i>autaniNet</i> wireless control
A01-08-0060-01	Model 60 – 115V-EL-LISA with <i>autaniNet</i> wired control
A01-08-0060-02	Model 60 – 230/277V-EL-LISA with <i>autaniNet</i> wired control

DIMENSIONS:



May be covered by one or more of the following United States Patents: 7,381,129 B2; D514688 and other patents pending. AIRIUS®, AIR PEAR®, and THE THERMAL EQUALIZER® are trademarks of Airius, LLC, registered in the U.S. and in some countries abroad. Other trademarks pending in the U.S. and abroad.



Autani, LLC
TEL (443) 320-2233
FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

The Airius Air Pear Model 100 is a wirelessly managed destratification fan. These fans form the foundation of an Air Pear Thermal Equalizer System that reduces energy consumption by increasing the efficiency of heating and cooling systems.

Stratification, or temperature layering, occurs when there is minimal air movement within an enclosed building space. Heat (naturally or artificially generated) rises to the ceiling while cold air sinks to the floor. Temperatures can increase up to 1°F per foot of building elevation.

In cold weather, destratification redirects hot air from the ceiling to the floor, recycling existing heat and reducing energy consumption. In moderate or warm weather, destratification reduces temperature differentials within the space and increases the efficiency of HVAC systems.

As a network device, the Airius Air Pear is controlled by an Autani *Manager* appliance running *FanCenter* software. *FanCenter* manages the speed, direction, and run-time of destratification fans based upon schedules and demand response requests.

APPLICATIONS:

FanCenter is a managed system of thermal destratification fans that reduces energy consumption by increasing the efficiency of heating and cooling systems.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Destratification & Thermal Equalization can reduce energy consumption up to 30% or more
- Suitable for mounting height of 25-100 ft with up to 2500 ft² of coverage per unit (56 ft diameter)
- A properly applied array of units can achieve temperature balance within 0° to 3°F
- Control and monitoring of speed, direction, and run time via *FanCenter* software
- *autaniNet* secure wireless 2.4GHz communications with network devices
- Real-time alerting for user defined and system events via email or smart phone
- Easy installation for connection to building structure; drop ceiling mounting kit available
- Meets LEED EA Credit, "Optimize Energy Performance"
- Manufactured from recyclable material and shipped in recyclable corrugated packaging
- **Designed & Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

MOTOR

- ♦ 200/277V, 0 - 68 dB(A) at 50/60hz
- ♦ Watts: 0-390 / RPM: 0-1690 / AMPS: 0-2.5
- ♦ CFM (m3/hr): 0-3358 (0-5705)
- ♦ Shutoff: 275°F (135°C); Reset: 255°F (125°C)
- ♦ No lubrication required; bearings are sealed

HOUSING

- ♦ Weight: 45lbs (20.5kgs)
- ♦ Height to Rim: 33.25in (845mm)
- ♦ Diameter: 19.5in (495mm)

COVERAGE

- ♦ Up to 2500ft² or a 56ft coverage diameter with a ceiling height up to 100ft

RADIO NETWORK (*autaniNet*)

- ♦ IEEE 802.15.4-2003 2.4GHz ISM
- ♦ Range: Approx. 1000' LOS transmit/ receive

REGULATORY APPROVALS

- ♦ UL Standard 507 for Safety Electric Fans
- ♦ ETL certified fan and components
- ♦ 5VA flame resistance rating
- ♦ RoHS compliant

LIMITATIONS

- ♦ Mounting height up to 100ft
- ♦ Do not install in environments open to the elements

GENERAL

- ♦ Color(s): Gray, Cool Gray
- ♦ Outer shell and stator: Fire rated 5VA materials
- ♦ Power cord: 3 wire 18 AWG (or 16 AWG) 300VAC rated electrical cord (UL rated as SJT)
- ♦ 115VAC version comes with molded 3-prong plug
- ♦ 230/277VAC versions do not have a plug supplied
- ♦ Warranty: 3-years from shipping date

SAFETY PRECAUTIONS PROVIDED

- ♦ Seismic restraint point for earthquake codes
- ♦ Thermal overload protection

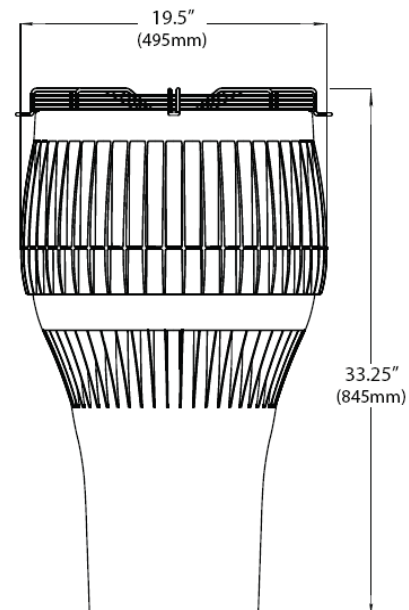


Indoor use only

ORDERING INFORMATION:

SKU	Description
A01-08-0100-02	Model 100 - 200/277V-EL-LISA with <i>autaniNet</i> wireless control
A01-08-0100-01	Model 100 - 200/277V-EL-LISA with <i>autaniNet</i> wired control

DIMENSIONS:



May be covered by one or more of the following United States Patents: 7,381,129 B2; D514688 and other patents pending. AIRIUS®, AIR PEAR®, and THE THERMAL EQUALIZER® are trademarks of Airius, LLC, registered in the U.S. and in some countries abroad. Other trademarks pending in the U.S. and abroad.



Autani, LLC
TEL (443) 320-2233
FAX (240) 755-0092
www.autani.com



DESCRIPTION:

The PHI Cell uses advanced air purification and oxidation technology to protect against most biological and chemical contaminants within an enclosure. Housed in an Air Pear Thermal Equalizer fan, the PHI Cell works continuously to eliminate bacteria, viruses, mold, gases, odors, and VOCs while dramatically improving air circulation.

The Photohydroionization (PHI) Cell utilizes a broad spectrum, high-intensity UV light directed on a quad-metallic target that produces hydroperoxides. This creates a unique oxidation process that kills micro-organisms and neutralizes airborne chemicals, providing for a safer environment as well as clean, odor-free air.

Additionally, while the air is continuously being purified, the space is also being thermally equalized. This improves occupants' comfort by eliminating hot and cold spots, and it reduces energy consumption by balancing the floor and ceiling temperature.

APPLICATIONS:

FanCenter is a managed system of thermal destratification fans that reduces energy consumption by increasing the efficiency of heating and cooling systems.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Option for Air Pear destratification fans that safely reduces airborne bacteria and viruses up to 99%
- Eliminates stale air and odors
- No costly chemicals needed, making the PHI Cell both environmentally friendly & economical to use
- Low maintenance, integral to fans
- Scheduled operation in conjunction with occupancy sensing when used with *FanCenter* control systems
- Uses a high-efficiency rated UV bulb with an estimated life of 25,000 hours—nearly 3 years
- *autaniNet* secure wireless 2.4GHz communications with network devices
- **Designed & Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

ATTRIBUTES & CHARACTERISTICS

- ♦ Creates aggressive advanced oxidation atmosphere
- ♦ Kills 99% of bacteria, viruses and mold (surface and airborne)
- ♦ Kills 85% of gases and odors

PERFORMANCE

- ♦ Estimated life of 25,000 hours (3 years)
- ♦ Broad spectrum 100-300 nm HE/UV™
- ♦ Low level ozone (0.01 - 0.02 ppm)

DIMENSIONS & PROPERTIES

- ♦ Available in 5in (9W), 9in (10W), and 14in (14W)

MATERIALS

- ♦ High intensity broad spectrum UV tube (100 - 300nm)
- ♦ Hydrated catalytic matrix cell (Quad-Metallic)
- ♦ UV bulb encased in a protective poly tube
- ♦ Entire assembly is encased in a protective metal cell

ACCESSORIES & OPTIONS

- ♦ Available in Air Pear Model 45
- ♦ Short, standard, and extended nozzles
- ♦ Works with 120/230/277VAC models

OPERATION

- ♦ Designed to operate 24 hours-a-day, 7 days-a-week to protect against airborne mold, bacteria, viruses, odors and VOCs

TESTED AND APPROVED BY

- ♦ UL, ETL, TUV, EPA, and CSA
- ♦ U.S. Military; U.S. Government - GSA
- ♦ Canadian, Chinese, and Japanese Governments
- ♦ European Union

LIMITATIONS

- ♦ Little effect on airborne particulate
- ♦ Do not install in environments open to the elements

GENERAL INFORMATION & SAFETY PRECAUTIONS

- ♦ Warranty: 3 years; Factory installed
- ♦ UV bulb is encased in a protective poly tube to prevent any glass or mercury breakage/leakage

ORDERING INFORMATION:

Part #	Description
A01-08-0002-01	PHI Photohydroionization™ Kit

Optional Accessories:

Part #	Description
A01-08-0045-03	Air Pear Fan Model 45 - 115V-EL-LISA with <i>autaniNet</i> wireless control
A01-08-0045-04	Air Pear Fan Model 45 - 230/277V-EL-LISA with <i>autaniNet</i> wireless control
A01-08-0045-01	Air Pear Fan Model 45 - 115V-EL-LISA with <i>autaniNet</i> wired control
A01-08-0045-02	Air Pear Fan Model 45 - 230/277V-EL-LISA with <i>autaniNet</i> wired control



Indoor use only



May be covered by one or more of the following United States Patents: 7,381,129 B2; D514688 and other patents pending. AIRIUS®, AIR PEAR®, and THE THERMAL EQUALIZER® are trademarks of Airius, LLC, registered in the U.S. and in some countries abroad. Other trademarks pending in the U.S. and abroad.



Autani, LLC
TEL (443) 320-2233
FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

The Autani Wireless *Closure Sensor* is an easy to install, compact, high performance dry contact sensor with an integrated wireless transceiver that uses the *autaniNet* wireless mesh network to connect to Autani *Manager* appliances and other *EnergyCenter* devices.

The low voltage, line powered *Closure Sensor* provides one channel of contact input used to detect the open-and-closed status of a pair of isolated contacts, such as a relay or switch. Wire leads can be connected to contacts and switches to sense momentary or maintained position.

Contact detected by the wireless *Closure Sensor* is used by Autani's powerful *EnergyCenter* family of Integrated Energy Management software applications and hardware to trigger changes in HVAC, lighting, load, and plug load.

APPLICATIONS:

Wireless Closure Sensors are suitable for renovation, upgrade, and new construction projects.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Discreet, attractive, low-profile design
- High performance, compact contact closure sensor with wireless connectivity
- No control wiring required! *autaniNet* secure wireless 2.4GHz communications with Autani *Manager* and other network devices
- Multiple sensors can be located in the same room to optimize HVAC, lighting, load, and plug load control
- Low voltage, line powered device requires no batteries
- One channel of momentary or maintained dry contact input
- Quick and easy to install
- *EnergyCenter* products operate independently or as an integrated solution
- FCC Certified
- **Designed & Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

ELECTRICAL

- ♦ Input Voltage: 12 to 24VDC, 24VAC
- ♦ Input Current: 100mA max.

I/O PORT

- ♦ Channel 1: Dry contact, momentary or maintained

RADIO NETWORK (*autaniNet*)

- ♦ IEEE 802.15.4-2003 2.4GHz ISM
- ♦ Range: Approx. 1000' LOS transmit/ receive

REGULATORY APPROVALS

- ♦ FCC (V8NZRB1000141)
- ♦ IC (7737A-ZRB1000141)

ENVIRONMENTAL

Test condition of all ratings 25°C

- ♦ Operating Temperature: 0° to 60°C
- ♦ Storage Temperature: -25° to 80°C

PHYSICAL

- ♦ Dimensions (HxWxD): 3.35 x 1.07 x 0.71in
- ♦ Color: White
- ♦ Weight/ Shipping Weight: <10 oz/ <1lb



Indoor use only

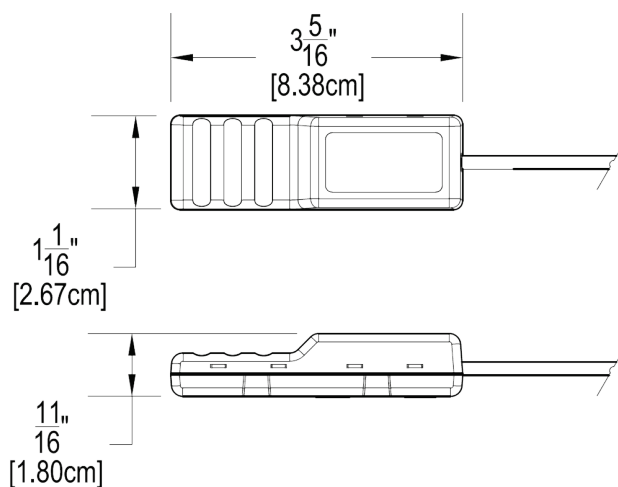
ORDERING INFORMATION:

SKU	Description
A05-01-0160-01	Autani Wireless Closure Sensor

Optional Accessories:

SKU	Description
A07-01-0403-01	<i>autaniNet</i> Wireless Range Extender. Includes 24VDC Power Supply with parallel blade plug.
A07-01-0403-02	<i>autaniNet</i> Wireless Range Extender. Requires 24VDC Power Supply (not included).

DIMENSIONS:



Autani, LLC
 TEL (443) 320-2233
 FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

DESCRIPTION:

The Autani *Wireless Range Extender* expands the range of the *autaniNet* wireless network, allowing devices to communicate with each other over larger distances.

A dedicated range extension device, the *Wireless Range Extender* adds a high-powered radio to the wireless mesh for the purpose of extending the range of the network. Because the *Range Extender* performs no other functions, it can effectively route and extend the network better than a node that is used for multiple purposes.

APPLICATIONS:

Wireless Range Extenders are suitable for renovation, upgrade, and new construction projects.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



FEATURES:

- Cost effectively expands the range of a wireless network
- Simple to install using Autani's auto-commissioning software features
- Easy to add in nearly any location needed
- Provides reliable communication between devices
- *EnergyCenter* products operate independently or as an integrated solution with other members of the *EnergyCenter* family
- **Designed & Made in the USA**

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
 TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

ELECTRICAL

- ◆ Input Voltage: 12-30V AC/DC
- ◆ Input Current: 100mA max.

RADIO NETWORK (*autaniNet*)

- ◆ IEEE 802.15.4-2003 2.4GHz ISM
- ◆ Range: Approx. 1000' LOS transmit/receive

REGULATORY APPROVALS

- ◆ FCC (V8NZRB1000141) & IC (7737A-ZRB1000141)

ENVIRONMENTAL

Test condition of all ratings 25°C

- ◆ Operating Temperature: 0° to 60°C
- ◆ Storage Temperature: -25° to 80°C
- ◆ Rated for indoor use only

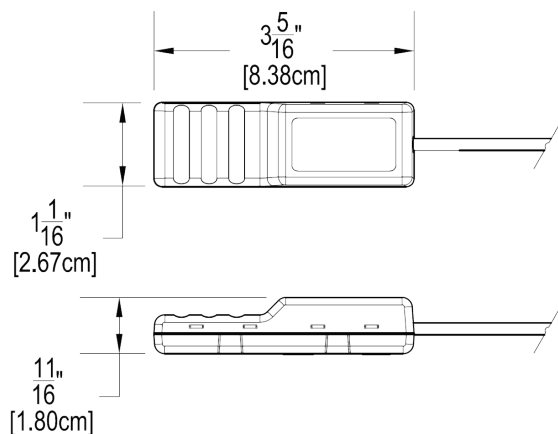
PHYSICAL

- ◆ Dimensions (HxWxD): 3.35 x 1.07 x .71in
- ◆ Color: White
- ◆ Weight/ Shipping Weight: <10 oz/<1lb



Indoor use only

DIMENSIONS:



ORDERING INFORMATION:

SKU	Description
A07-01-0403-01	<i>autaniNet</i> Wireless Range Extender w/AC Power Supply
A07-01-0403-02	<i>autaniNet</i> Wireless Range Extender w/1' Wires
A07-01-0403-05	<i>autaniNet</i> Wireless Range Extender w/AC Power Supply, Conformal Coated
A07-01-0403-06	<i>autaniNet</i> Wireless Range Extender w/1' Wires, Conformal Coated

The EnergyCenter Family

It all centers on energy management

Autani's *EnergyCenter* product line integrates lighting, climate control, fans, metering, and plug loads to provide a powerful integrated energy management solution. *LightCenter*, *StatCenter*, *FanCenter*, *MeterCenter*, and *PLUS* software share the Autani *Manager* appliance and operate as an integrated application.

EnergyCenter software communicates via the Autani *Manager* to lighting controllers, motion sensors, thermostats, fans, meters, and more using *autaniNet*, a secure wireless IEEE 802.15.4, 2.4GHz communications network.



Autani, LLC

TEL (443) 320-2233
FAX (240) 755-0092
www.autani.com



This document contains the Proprietary Information of Autani, LLC. Any use of this information without the expressed written consent of Autani, LLC is prohibited. Please refer to www.autani.com/legal for licensing, intellectual property, and other legal notices and information. Autani warrants its products to be free of defects in materials and workmanship for a period of three (3) years. There are no obligations or liabilities on the part of Autani for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

Additional drawings are available at www.autani.com/resources. Be sure to visit the website for the most current and comprehensive selection of resources.

STANDARD PRODUCT DRAWINGS

MANAGER & SOFTWARE

Autani Manager Appliance with EnergyCenter Software.....	STA08-01-0147-01
Autani Manager Appliance Mounting Detail	STMA08-01-0147

LIGHTING CONTROLLERS

Autani Lighting Detail: AFC-A	AFC-A-11000000
Autani Lighting Detail: AFC-A with Local Control and Photocell	AFC-A-11100001
Autani Lighting Detail: ARC-R with 1 Switch at P3 and Third Party Occupancy Sensor	ARC-R-10010010
Autani Lighting Detail: ARC-R with 1 Switch at P3 and MINI Occupancy Sensor	ARC-R-10010100
Autani Lighting Detail: ARC-R with 1 Switch on Line Side and Third Party Occupancy Sensor	ARC-R-10100010
Autani Lighting Detail: ARC-R with 1 Switch on Line Side and MINI Occupancy Sensor	ARC-R-10100100
Autani Lighting Detail: ARC-R 2 Circuits with 1 Switch at P3 and Third Party Occupancy Sensor	ARC-R-21011010
Autani Lighting Detail: ARC-R 2 Circuits with 2 Switches at P3 and Third Party Occupancy Sensor	ARC-R-21020010
Autani Lighting Detail: ARC-R 2 Circuits with 2 Switches at P3 and MINI Occupancy Sensor	ARC-R-21020100
Autani Lighting Detail: ARC-R 2 Circuits with 2 Switches on Line Side and Third Party Occupancy Sensor ...	ARC-R-21200010
Autani Lighting Detail: ARC-R 2 Circuits with 2 Switches on Line Side and MINI Occupancy Sensor	ARC-R-21200100
Autani Lighting Detail: ARC-R with 1 Switch at P3, Contact Sensor, and MINI Occupancy Sensor	ARC-R-10011100
Autani Lighting Detail: ARC-R with 1 Switch on Line Side, Contact Sensor, MINI Occupancy Sensor	ARC-R-10101100
Autani Lighting Detail: ARC-R with 1 Switch on Line Side, Contact Sensor, Third Party Occupancy Sensor ...	ARC-R-21101010

PLUG LOADS & METERS

E50C2 Packaged Meter	STA03-10-0145-01
SmartLet Outlet Controller	STA07-01-0150-01
E50C2 Packaged Meter Mounting Detail	STMA03-10-0145-01

OTHER DEVICES

T32P Wireless Thermostat	STA01-09-0140-01
MINI Wired Motion Sensor	STA05-01-0111-13
MINI Wireless Motion Sensor, 5m Detection	STA05-01-0115-01
MINI Wireless Motion Sensor, Slight Detection	STA05-01-0115-02

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
 TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



MINI Wireless Motion Sensor, Spot Detection.....	STA05-01-0115-03
MINI Wireless Motion Sensor, 10m Detection.....	STA05-01-0115-04
Photocell PLC CES/O/24/O-10.....	STA05-11-0001-01
Contact Sensor	STA05-13-0001-01
T32P Wireless Thermostat Mounting Detail.....	STMA01-09-0140
MINI Wired Motion Sensor Mounting Detail.....	STMA05-01-0111-13

STANDARD APPLICATIONS

HOSPITALITY & LIVING SPACE

Standard Hotel Room

Standard Hotel Room Riser (EnergyCenter).....	EAHL0001-R
Standard Hotel Room Diagram (EnergyCenter).....	EAHL0001-D

Standard Apartment

Standard Apartment Riser (EnergyCenter).....	EAHL0002-R
Standard Apartment Diagram (EnergyCenter)	EAHL0002-D

OFFICE SPACE

Standard Large Conference Room

Standard Large Conference Room Riser (EnergyCenter).....	EAOS0001-R
Standard Large Conference Room Diagram (EnergyCenter)	EAOS0001-D

Daylighting Large Conference Room

Daylighting Large Conference Room Riser (EnergyCenter).....	EAOS0002-R
Daylighting Large Conference Room Diagram (EnergyCenter)	EAOS0002-D

Standard Small Conference Room

Standard Small Conference Room Riser (EnergyCenter)	EAOS0003-R
Standard Small Conference Room Diagram (EnergyCenter).....	EAOS0003-D

Daylighting Small Conference Room

Daylighting Small Conference Room Riser (EnergyCenter)	EAOS0004-R
Daylighting Small Conference Room Diagram (EnergyCenter)	EAOS0004-D

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
 TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



Standard Large Office

Standard Large Office Riser (EnergyCenter).....	EAOS0005-R
Standard Large Office Diagram (EnergyCenter)	EAOS0005-D

Daylighting Large Office

Daylighting Large Office Riser (EnergyCenter)	EAOS0006-R
Daylighting Large Office Diagram (EnergyCenter).....	EAOS0006-D

Standard Small Office

Standard Small Office Riser (EnergyCenter).....	EAOS0007-R
Standard Small Office Diagram (EnergyCenter)	EAOS0007-D

Daylighting Small Office

Daylighting Small Office Riser (EnergyCenter).....	EAOS0008-R
Daylighting Small Office Diagram (EnergyCenter)	EAOS0008-D

Wireless Small Office

Wireless Small Office Riser (EnergyCenter).....	EAOS0009-R
Wireless Small Office Diagram (EnergyCenter)	EAOS0009-D

Wireless Small Office (2-Circuit)

Wireless Small Office (2-Circuit) Riser (EnergyCenter)	EAOS0010-R
Wireless Small Office (2-Circuit) Diagram (EnergyCenter).....	EAOS0010-D

Standard Open Office

Standard Open Office Riser (EnergyCenter).....	EAOS0011-R
Standard Open Office Diagram (EnergyCenter)	EAOS0011-D

Daylighting Open Office

Daylighting Open Office Riser (EnergyCenter).....	EAOS0012-R
Daylighting Open Office Diagram (EnergyCenter)	EAOS0012-D

Cubicle Control

Cubicle Control Riser (EnergyCenter).....	EAOS0013-R
Cubicle Control Diagram (EnergyCenter).....	EAOS0013-D

CLASSROOM SPACE

Standard Classroom

Standard Classroom Riser (EnergyCenter).....	EACS0001-R
Standard Classroom Diagram (EnergyCenter).....	EACS0001-D

Daylighting Classroom

Daylighting Classroom Riser (EnergyCenter)	EACS0002-R
Daylighting Classroom Diagram (EnergyCenter).....	EACS0002-D

Standard Classroom with Whiteboard

Standard Classroom with Whiteboard Riser (EnergyCenter).....	EACS0003-R
Standard Classroom with Whiteboard Diagram (EnergyCenter).....	EACS0003-D

Daylighting Classroom with Whiteboard

Daylighting Classroom with Whiteboard Riser (EnergyCenter)	EACS0004-R
Daylighting Classroom with Whiteboard Diagram (EnergyCenter).....	EACS0004-D

OTHER

Standard Restroom

Standard Restroom Riser (EnergyCenter).....	EAOT0001-R
Standard Restroom Diagram (EnergyCenter).....	EAOT0001-D

TYPICAL ONE-LINE DIAGRAMS

1-CIRCUIT

1-Circuit One-Line Diagram (With Dimmer Switch, Occupancy Sensors, and Photocell)	AFC-OL-1003-A
1-Circuit One-Line Diagram (With Dimmer Switch, 3rd Party Occupancy Sensors, and Photocell)	AFC-OL-1003-O
1-Circuit One-Line Diagram (With Occupancy Sensors, and Local Controls).....	ARC-OL-1003-A
1-Circuit One-Line Diagram (With 3rd Party Occupancy Sensors, and Local Controls).....	ARC-OL-1003-O

2-CIRCUIT

2-Circuit One-Line Diagram (With Occupancy Sensors, Local Controls, and Photocell)	AFC-OL-2001-A
2-Circuit One-Line Diagram (With 3rd Party Occupancy Sensors, Local Controls, and Photocell)	AFC-OL-2001-O
2-Circuit One-Line Diagram (With Occupancy Sensors, and Local Controls)	ARC-OL-2003-A
2-Circuit One-Line Diagram (With 3rd Party Occupancy Sensors, and Local Controls)	ARC-OL-2003-O

Autani, LLC

7170 Riverwood Drive, Suite B • Columbia, MD 21046
 TEL (443) 320-2233 • FAX (240) 755-0092
www.autani.com



SPECIFICATIONS:

APPLIANCE

Mounting: Wall bracket or table-top
Storage: 80GB w/ HDD, 4GB w/ flash drive
Endpoint Capacity: ~300, upgradable to 1000

POWER

Power Supply: 12VDC UL/ FCC/ CE approved power block
Estimated Draw: 25 watts max. load

I/O SUPPORT

LAN: 1 10/ 100/ 1000 Ethernet, TCP/ IP v4
(UDP ports: 49657, 54261, 59370, 59371)
Serial: 2 - 1 dedicated internal, 1 open
USB: 2 USB 2.0 Host interfaces

PROTOCOLS

Serial: Modbus, RS-485, opt. BACnet MS/ TP
Wireless: 802.15.4 with mesh networking
Ethernet: HTTP/ HTTPS, FTP
Security: Internal firewall, IPSEC, isolated wireless & internal processors

RADIO NETWORK (*autaniNet*)

IEEE 802.15.4-2003 2.4GHz ISM (ZigBee)
Range: Approx. 1000' LOS transmit/ receive

REGULATORY APPROVALS

UL Pending
FCC (V8NZRB1000141) &
IC (7737A-ZRB1000141), Certified Class B
Digital Device, FCC Part 15

ENVIRONMENTAL

Operating Temperature: 0° to 70°C
Storage Temperature: -25° to 80°C

SOFTWARE

EnergyCenter

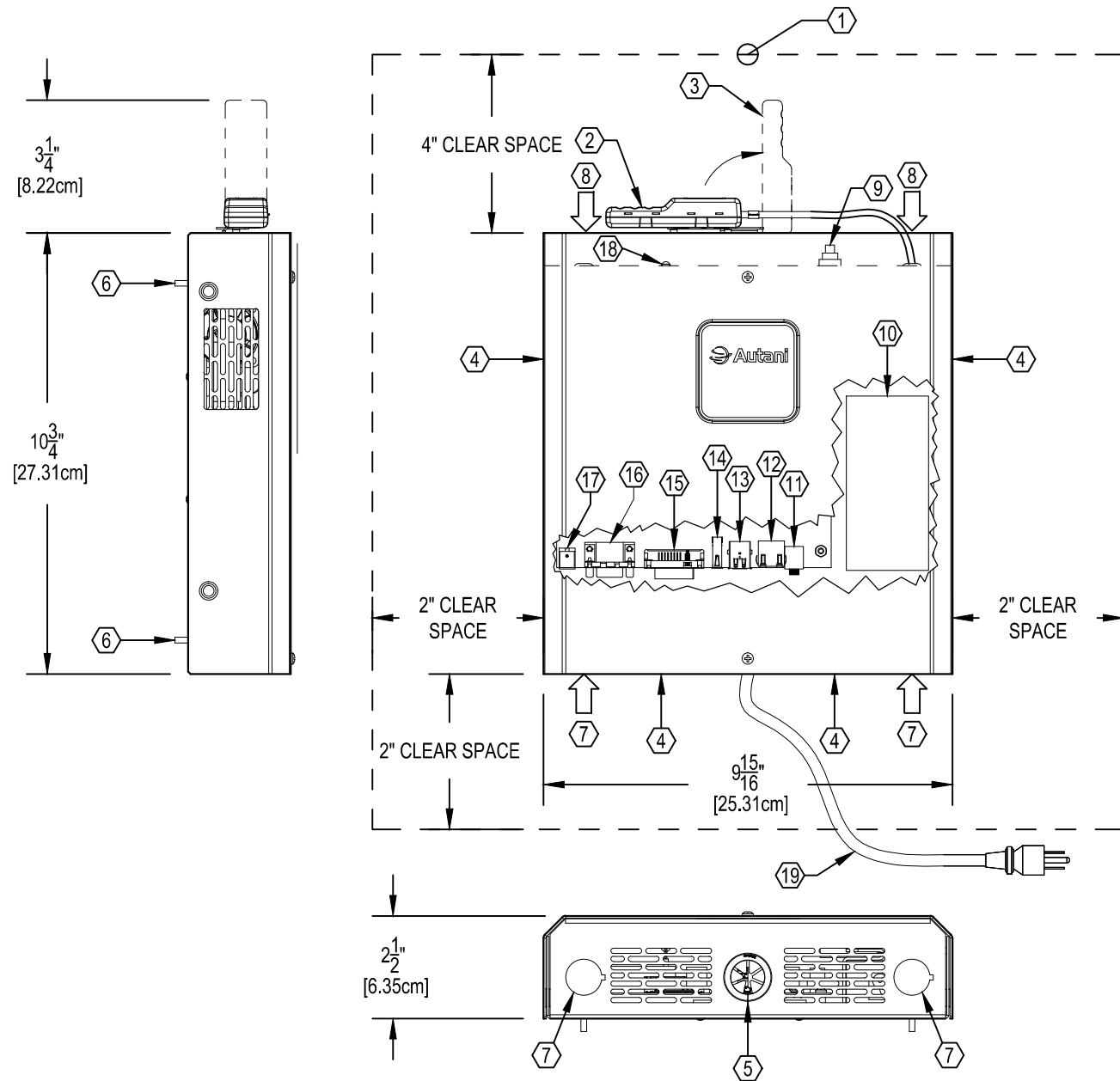
PHYSICAL

Dimensions (HxWxD): 10.75 x 9.94 x 2.5in
Color: Autani Blue
Weight: 5.0 lbs

⚠ POWERING THIS DEVICE PRIOR TO COMMISSIONING BY AUTANI OR AN AUTANI AUTHORIZED SERVICE CENTER WILL VOID WARRANTY.

KEYED NOTES

- 1 PROVIDE THE FOLLOWING CLEARANCES AROUND THE MANAGER TO ALLOW FOR PROPER VENTILATION AND SIGNAL TRANSMISSION:
ABOVE: 4" BELOW: 2" SIDES: 2"
- 2 SHIPPING ORIENTATION OF TRANSMITTER
- 3 OPERATIONAL ORIENTATION OF TRANSMITTER
- 4 VENT
- 5 HARNESS ENTRY POINT
- 6 MOUNTING SCREWS, SEE DRAWING STMA07-01-0147 FOR MOUNTING DETAIL
- 7 CONDUIT ENTRY PUNCHOUTS FOR CONTROL AND POWER WIRING
- 8 PUNCHOUT FOR TRANSMITTER HARNESS ENTRY
- 9 PUSHBUTTON POWER SWITCH
- 10 AUTANI POWERBRICK
- 11 AUDIO JACK (NOT USED)
- 12 STANDARD RJ-45 ETHERNET JACK
- 13 DUAL STACKED UNIVERSAL SERIAL BUS (USB) JACKS (NOT USED)
- 14 SINGLE UNIVERSAL SERIAL BUS (USB) JACK (NOT USED)
- 15 DIGITAL/ANALOG VISUAL INTERFACE (DVI) JACK (NOT USED)
- 16 VIDEO GRAPHICS ARRAY (VGA) JACK (NOT USED)
- 17 DC POWER JACK
- 18 LED
- 19 MANAGER POWER CORD, APPROXIMATELY 2.5' LONG

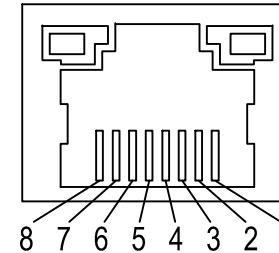


PHYSICAL
SCALE: 1/4

RJ-45 ETHERNET PUNCH DOWN

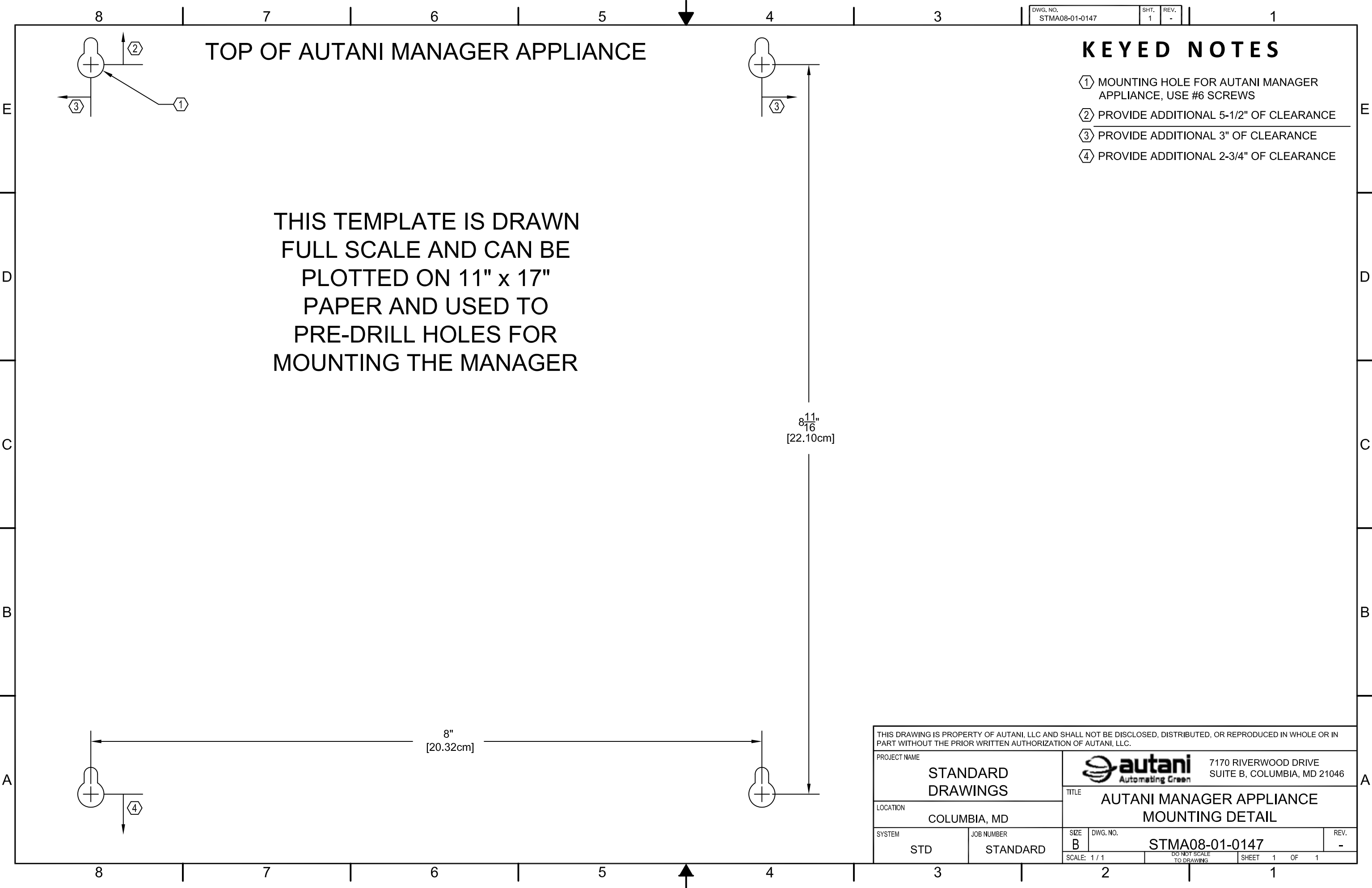
PIN	COLOR IN INCOMING CABLE	SIGNAL
1	GREEN/WHITE	TRANSMIT +
2	GREEN	TRANSMIT -
3	ORANGE/WHITE	RECEIVE +
4	BLUE	UNUSED
5	BLUE/WHITE	UNUSED
6	ORANGE	RECEIVE -
7	BROWN/WHITE	UNUSED
8	BROWN	UNUSED

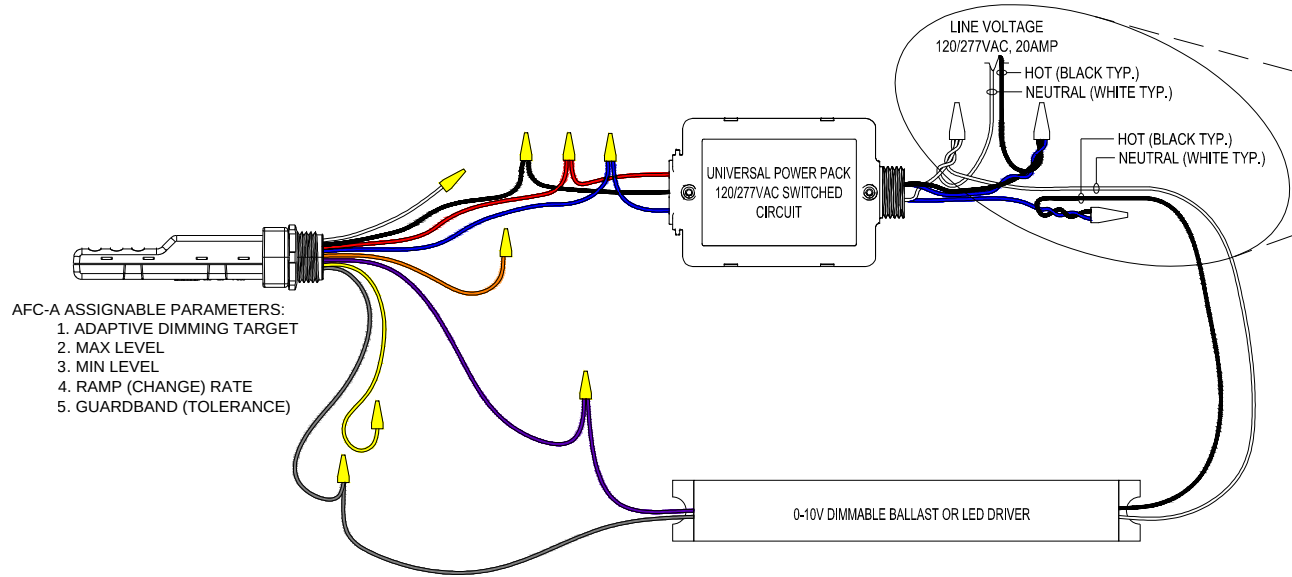
*NOTE: THIS IS A STANDARD STRAIGHT THROUGH RJ-45 ETHERNET WIRING CONFIGURATION



RJ-45 ETHERNET JACK
SCALE: N.T.S.

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.					
PROJECT NAME STANDARD DRAWINGS				7170 RIVERWOOD DRIVE	
				SUITE B, COLUMBIA, MD 21046	
LOCATION COLUMBIA, MD		TITLE AUTANI MANAGER APPLIANCE WITH ENERGYCENTER SOFTWARE			
SYSTEM STD	JOB NUMBER STANDARD	SIZE B	DWG. NO. STA08-01-0147-01		REV. -
		SCALE: AS SHOWN	DO NOT SCALE TO DRAWING	SHEET 1 OF 1	





LINE VOLTAGE SIDE OF UVPP			
POSITION	FROM UVPP	SIGNAL	CONNECTION TO
1	WHITE	NEUTRAL	NEUTRAL (LINE & LOAD)
2	BLACK	LINE	HOT (LINE)
3	BLUE	LOAD	HOT (LINE)
4	BLUE	LOAD	HOT (LOAD)

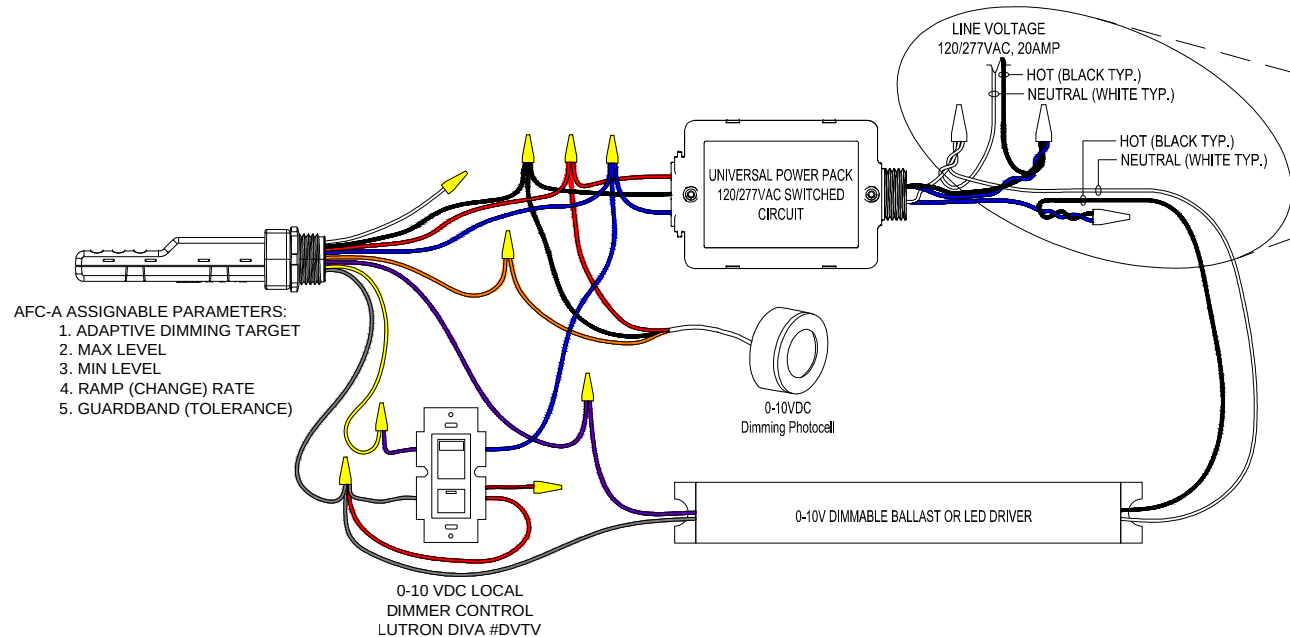
AFC-A ASSIGNABLE PARAMETERS:
1. ADAPTIVE DIMMING TARGET
2. MAX LEVEL
3. MIN LEVEL
4. RAMP (CHANGE) RATE
5. GUARDBAND (TOLERANCE)

AFC-A CONNECTIONS			
WIRE NUMBER	COLOR	TO UVPP	TO 4-WIRE 0-10VDC DIMMED LOAD
1	WHITE	-	-
2	RED	RED	-
3	VIOLET	-	VIOLET
4	BLUE	BLUE	-
5	YELLOW	-	-
6	ORANGE	-	-
7	BLACK	BLACK	-
8	GREY	-	GREY

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

NOTE: TARGET FOR ADAPTIVE DIMMING CAN BE SET VIA SCHEDULES, EVENTS, AND OVER-RIDES OR VIA LOCAL CONTROLLER ON A LAST-ACTION BASIS.

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.			
PROJECT NAME		7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046	
SAMPLES		AUTANI LIGHTING DETAIL AFC-A	
LOCATION		COLUMBIA, MD	
SYSTEM		APP APPLICATIONS	
JOB NUMBER		AFC-A-11000000	
SCALE		N.T.S.	
SHEET		1 OF 1	



AFC-A ASSIGNABLE PARAMETERS:
1. ADAPTIVE DIMMING TARGET
2. MAX LEVEL
3. MIN LEVEL
4. RAMP (CHANGE) RATE
5. GUARDBAND (TOLERANCE)

LINE VOLTAGE SIDE OF UVPP			
POSITION	FROM UVPP	SIGNAL	CONNECTION TO
1	WHITE	NEUTRAL	NEUTRAL (LINE & LOAD)
2	BLACK	LINE	HOT (LINE)
3	BLUE	LOAD	HOT (LINE)
4	BLUE	LOAD	HOT (LOAD)

AFC-A CONNECTIONS

WIRE NUMBER	COLOR	TO UVPP	TO PHOTOCELL	TO 0-10V DIMMER SWITCH	TO 4-WIRE 0-10VDC DIMMED LOAD
1	WHITE	-	-	-	-
2	RED	RED	RED	-	-
3	VIOLET	-	-	-	VIOLET
4	BLUE	BLUE	-	BLUE	-
5	YELLOW	-	-	VIOLET	-
6	ORANGE	-	ORANGE	-	-
7	BLACK	BLACK	BLACK	-	-
8	GREY	-	-	GREY & RED	GREY

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

NOTE: TARGET FOR ADAPTIVE DIMMING CAN BE SET VIA SCHEDULES, EVENTS, AND OVER-RIDES OR VIA LOCAL CONTROLLER ON A LAST-ACTION BASIS.

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.			
PROJECT NAME SAMPLES		autani Automating Green	
LOCATION COLUMBIA, MD		7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046	
SYSTEM APP		JOB NUMBER APPLICATIONS	
SCALE N.T.S.		DWG. NO. AFC-A-11100001	
DO NOT SCALE TO DRAWING		SHEET 1 OF 1	

8

7

6

5

4

3

DWG. NO.
ARC-R-10010100SHT:
1REV:
-

1

LINE VOLTAGE SIDE OF ARC			
POSITION	FROM (ARC)	SIGNAL	CONNECTION TO
1	WHITE	NEUTRAL	NEUTRAL (LINE & LOAD 1)
2	BLACK	LINE	HOT (LINE)
3	RED	LOAD	HOT (LINE)
4	RED	LOAD	HOT (LOAD 1)
5	BLUE	WALL SW COM	NOT CONNECTED
6	YELLOW	WALL SW1	NOT CONNECTED
7	ORANGE	WALL SW2	NOT CONNECTED

LINE VOLTAGE
120/277VAC, 20AMP

NEUTRAL (WHITE TYP.)
HOT (BLACK TYP.)

HOT (BLACK TYP.)
NEUTRAL (WHITE TYP.)
CIRCUIT #1
SWITCHED LOAD
(120/277VAC, 20AMPS MAX.)

ARC ACCESSORY CABLE
(A02-01-0129-02)

ARC ACCESSORY CABLE TERMINATIONS (P3)

FROM ARC ACCESSORY CABLE	ARC SIGNAL	COLOR	TO STANDARD LIGHT SWITCH
J2-1	GND	BLACK	SWITCH GND
J2-2	SW1	RED	SWITCH HOT
J2-3	SW2/ **CONT	WHITE	N/C

** CONTACT SWITCH IS ONLY SUPPORTED BY
ARC-R WITH SKU# A02-01-0133-02

GROUND WIRE NOT SHOWN
TERMINATE IN ACCORDANCE
WITH LOCAL CODES

2-WIRE WITH
GROUND CABLE

STANDARD
LIGHT SWITCH
CIRCUIT 2

AUTANI MINI MOTION
SENSOR

AUTANI LIGHTING DETAIL (ARC-R WITH (1) SWITCH AT P3, AND MINI OCCUPANCY SENSOR)

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.			
PROJECT NAME SAMPLES		autani Automating Green	
LOCATION COLUMBIA, MD		7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046	
SYSTEM APP		TITLE AUTANI LIGHTING DETAIL ARC-R / 1SWP3 / OS	
JOB NUMBER APPLICATIONS		SIZE B	DWG. NO. ARC-R-10010100
SCALE: N.T.S.		DO NOT SCALE TO DRAWING	REV. -
SHEET 1 OF 1			

8

7

6

5

4

3

2

1

8

7

6

5

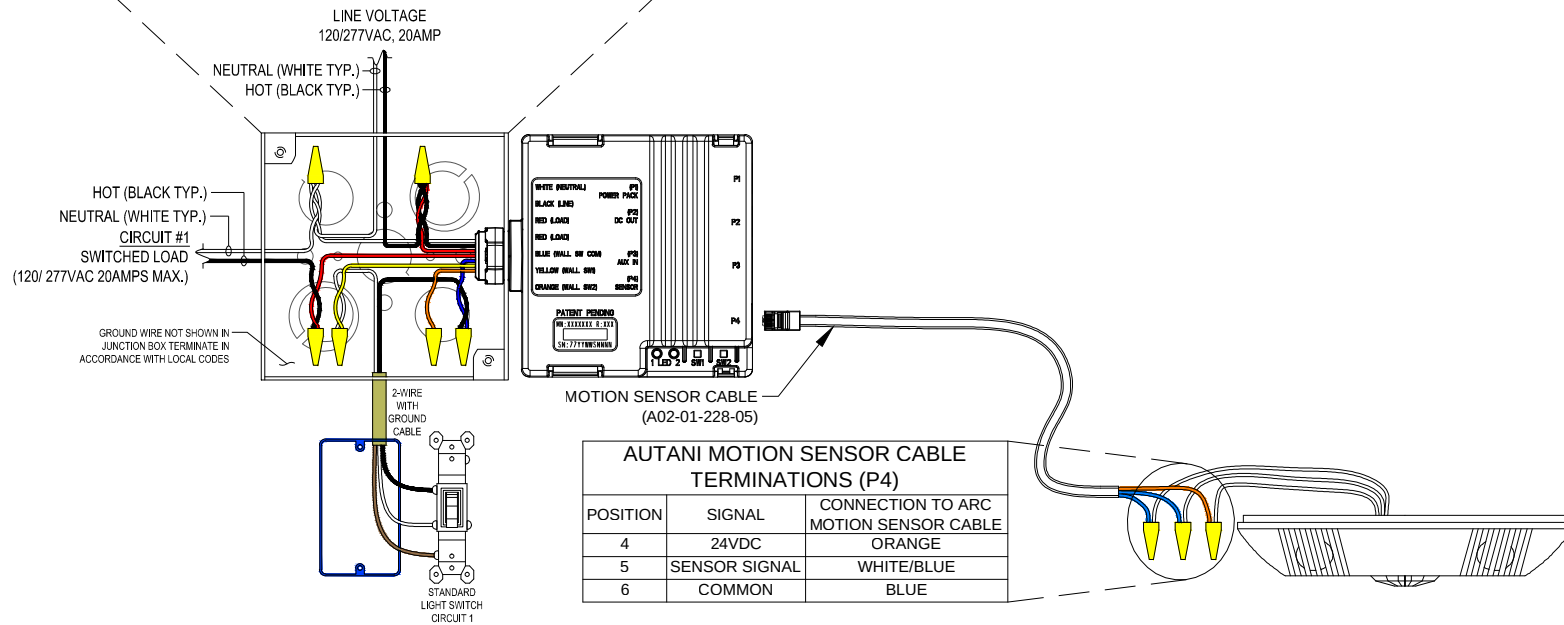
4

3

DWG. NO.
ARC-R-10100010SHT:
1REV:
-

1

LINE VOLTAGE SIDE OF ARC			
POSITION	FROM (ARC)	SIGNAL	CONNECTION TO
1	WHITE	NEUTRAL	NEUTRAL (LINE & LOAD 1)
2	BLACK	LINE	HOT (LINE)
3	RED	LOAD	HOT (LINE)
4	RED	LOAD	HOT (LOAD 1)
5	BLUE	WALL SW COM	COMMON (SW 1)
6	YELLOW	WALL SW1	HOT (SW 1)
7	ORANGE	WALL SW2	NOT CONNECTED



AUTANI LIGHTING DETAIL
(ARC-R WITH (1) SWITCH ON LINE SIDE,
AND THIRD PARTY OCCUPANCY SENSOR)

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.			
PROJECT NAME SAMPLES		7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046	
LOCATION COLUMBIA, MD		TITLE AUTANI LIGHTING DETAIL ARC-R / 1SWLS / 3RD PTY. OS.	
SYSTEM APP	JOB NUMBER APPLICATIONS	SPE B	DWG. NO. ARC-R-10100010
SCALE: N.T.S.		DO NOT SCALE TO DRAWING	
SHEET 1 OF 1		REV. -	

8

7

6

5

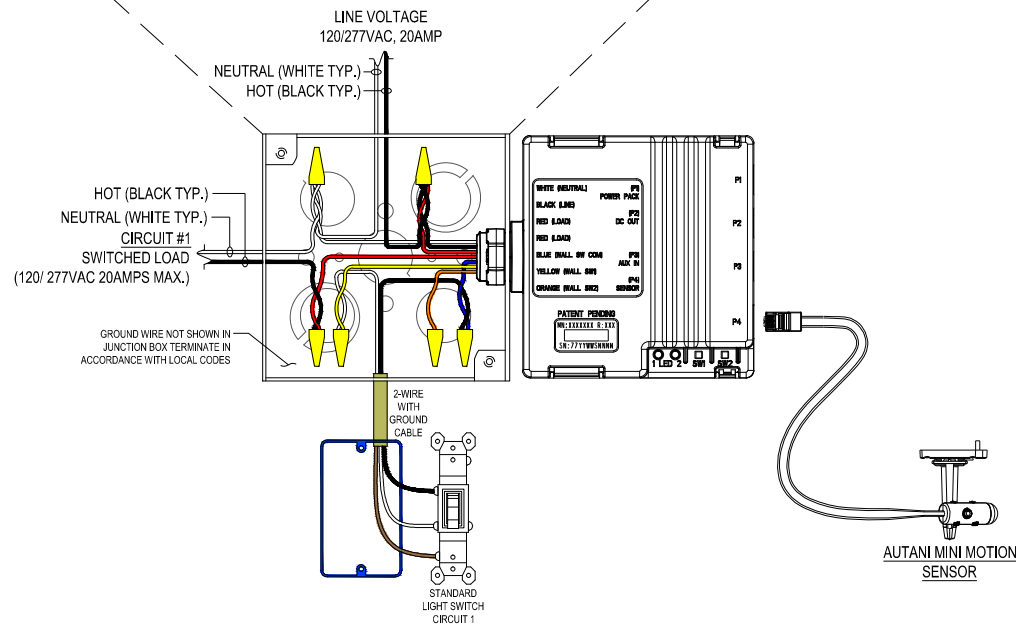
4

3

2

1

LINE VOLTAGE SIDE OF ARC			
POSITION	FROM (ARC)	SIGNAL	CONNECTION TO
1	WHITE	NEUTRAL	NEUTRAL (LINE & LOAD 1)
2	BLACK	LINE	HOT (LINE)
3	RED	LOAD	HOT (LINE)
4	RED	LOAD	HOT (LOAD 1)
5	BLUE	WALL SW COM	COMMON (SW 1)
6	YELLOW	WALL SW1	HOT (SW 1)
7	ORANGE	WALL SW2	NOT CONNECTED



AUTANI LIGHTING DETAIL
(ARC-R WITH (1) SWITCH ON LINE SIDE,
AND MINI OCCUPANCY SENSOR)

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.			
PROJECT NAME		autani Automating Green	
LOCATION		7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046	
SYSTEM		TITLE	
APP		AUTANI LIGHTING DETAIL ARC-R / 1SWLS / OS.	
JOB NUMBER		DWG. NO.	
APPLICATIONS		ARC-R-10100100	
SCALE: N.T.S.		DO NOT SCALE TO DRAWING	
SHEET 1 OF 1		REV. -	

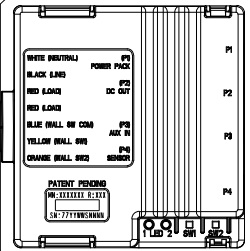
LINE VOLTAGE SIDE OF ARC			
POSITION	FROM (ARC)	SIGNAL	CONNECTION TO
1	WHITE	NEUTRAL	NEUTRAL (LINE & LOAD 1)
2	BLACK	LINE	HOT (LINE)
3	RED	LOAD	HOT (LINE)
4	RED	LOAD	HOT (LOAD 1)
5	BLUE	WALL SW COM	NOT CONNECTED
6	YELLOW	WALL SW1	NOT CONNECTED
7	ORANGE	WALL SW2	NOT CONNECTED

LINE VOLTAGE
120/277VAC, 20AMP

NEUTRAL (WHITE TYP.)
HOT (BLACK TYP.)

HOT (BLACK TYP.)
NEUTRAL (WHITE TYP.)
CIRCUIT #1
SWITCHED LOAD
(120/277VAC, 20AMPS MAX.)

ARC ACCESSORY CABLE
(A02-01-0129-02)



MOTION SENSOR CABLE
(A02-01-228-05)

AUTANI MOTION SENSOR CABLE TERMINATIONS		
POSITION	SIGNAL	CONNECTION TO ARC MOTION SENSOR CABLE
4	24VDC	ORANGE
5	SENSOR SIGNAL	WHITE/BLUE
6	COMMON	BLUE

ARC ACCESSORY CABLE TERMINATIONS (P1)			
POSITION	FROM ACCESSORY CABLE (ARC)	SIGNAL	UVPP CONNECTIONS
1	BLACK	GROUND	BLACK
2	RED	POWER	RED
3	WHITE	CONTROL	BLUE

LINE VOLTAGE SIDE OF UVPP			
POSITION	FROM UVPP	SIGNAL	CONNECTION TO
1	WHITE	NEUTRAL	NEUTRAL (LINE & LOAD 2)
2	BLACK	LINE	HOT (LINE)
3	BLUE	LOAD	HOT (LINE)
4	BLUE	LOAD	HOT (LOAD 2)

LINE VOLTAGE
120/277VAC, 20AMP

HOT (BLACK TYP.)
NEUTRAL (WHITE TYP.)

HOT (BLACK TYP.)
NEUTRAL (WHITE TYP.)

CIRCUIT #2
SWITCHED LOAD
(120/277VAC, 20AMPS MAX.)

ARC ACCESSORY CABLE TERMINATIONS (P3)			
FROM ARC ACCESSORY CABLE	ARC SIGNAL	COLOR	TO STANDARD LIGHT SWITCH
J2-1	GND	BLACK	SWITCH GND
J2-2	SW1	RED	SWITCH HOT
J2-3	SW2/ CONT	WHITE	SWITCH HOT

AUTANI LIGHTING DETAIL

(ARC-R, 2 CIRCUITS WITH (1) SWITCH AT P3,
AND THIRD PARTY OCCUPANCY SENSOR)

THIS WIRING CONFIGURATION IS ONLY APPLICABLE FOR THE ARC-R (A02-01-0133-01)

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.

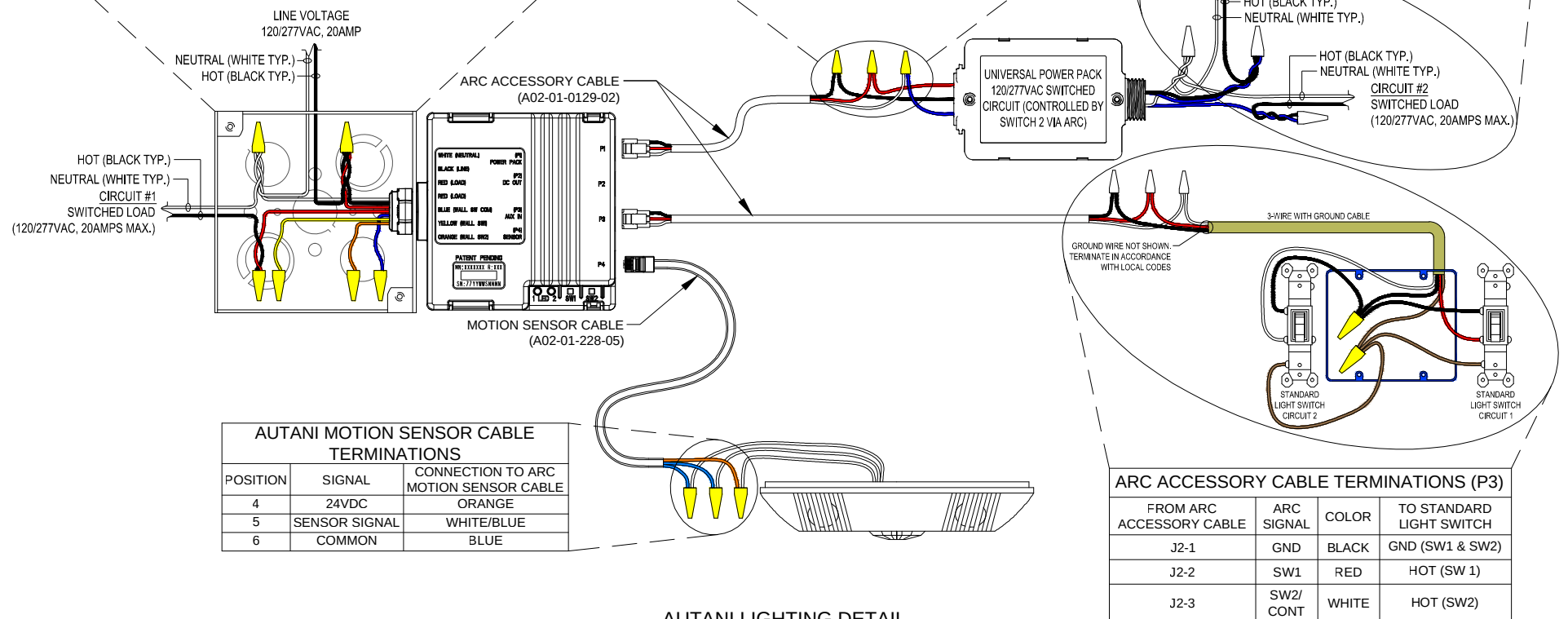
PROJECT NAME SAMPLES		7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046	
LOCATION COLUMBIA, MD		TITLE AUTANI LIGHTING DETAIL	
SYSTEM APP		JOB NUMBER APPLICATIONS	
DWG. NO. ARC-R-21011010		REV. -	
SCALE: N.T.S.		SHEET 2 OF 2	

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

LINE VOLTAGE SIDE OF ARC			
POSITION	FROM (ARC)	SIGNAL	CONNECTION TO
1	WHITE	NEUTRAL	NEUTRAL (LINE & LOAD 1)
2	BLACK	LINE	HOT (LINE)
3	RED	LOAD	HOT (LINE)
4	RED	LOAD	HOT (LOAD 1)
5	BLUE	WALL SW COM	NOT CONNECTED
6	YELLOW	WALL SW1	NOT CONNECTED
7	ORANGE	WALL SW2	NOT CONNECTED

ARC ACCESSORY CABLE TERMINATIONS (P1)			
POSITION	FROM ACCESSORY CABLE (ARC)	SIGNAL	UVPP CONNECTIONS
1	BLACK	GROUND	BLACK
2	RED	POWER	RED
3	WHITE	CONTROL	BLUE

LINE VOLTAGE SIDE OF UVPP			
POSITION	FROM UVPP	SIGNAL	CONNECTION TO
1	WHITE	NEUTRAL	NEUTRAL (LINE & LOAD 2)
2	BLACK	LINE	HOT (LINE)
3	BLUE	LOAD	HOT (LINE)
4	BLUE	LOAD	HOT (LOAD 2)



AUTANI MOTION SENSOR CABLE TERMINATIONS		
POSITION	SIGNAL	CONNECTION TO ARC MOTION SENSOR CABLE
4	24VDC	ORANGE
5	SENSOR SIGNAL	WHITE/BLUE
6	COMMON	BLUE

ARC ACCESSORY CABLE TERMINATIONS (P3)			
FROM ARC ACCESSORY CABLE	ARC SIGNAL	COLOR	TO STANDARD LIGHT SWITCH
J2-1	GND	BLACK	GND (SW1 & SW2)
J2-2	SW1	RED	HOT (SW 1)
J2-3	SW2/ CONT	WHITE	HOT (SW2)

AUTANI LIGHTING DETAIL
(ARC-R, 2 CIRCUITS WITH (2) SWITCHES AT P3, AND THIRD PARTY OCCUPANCY SENSOR)

THIS WIRING CONFIGURATION IS ONLY APPLICABLE FOR THE ARC-R (A02-01-0133-01)

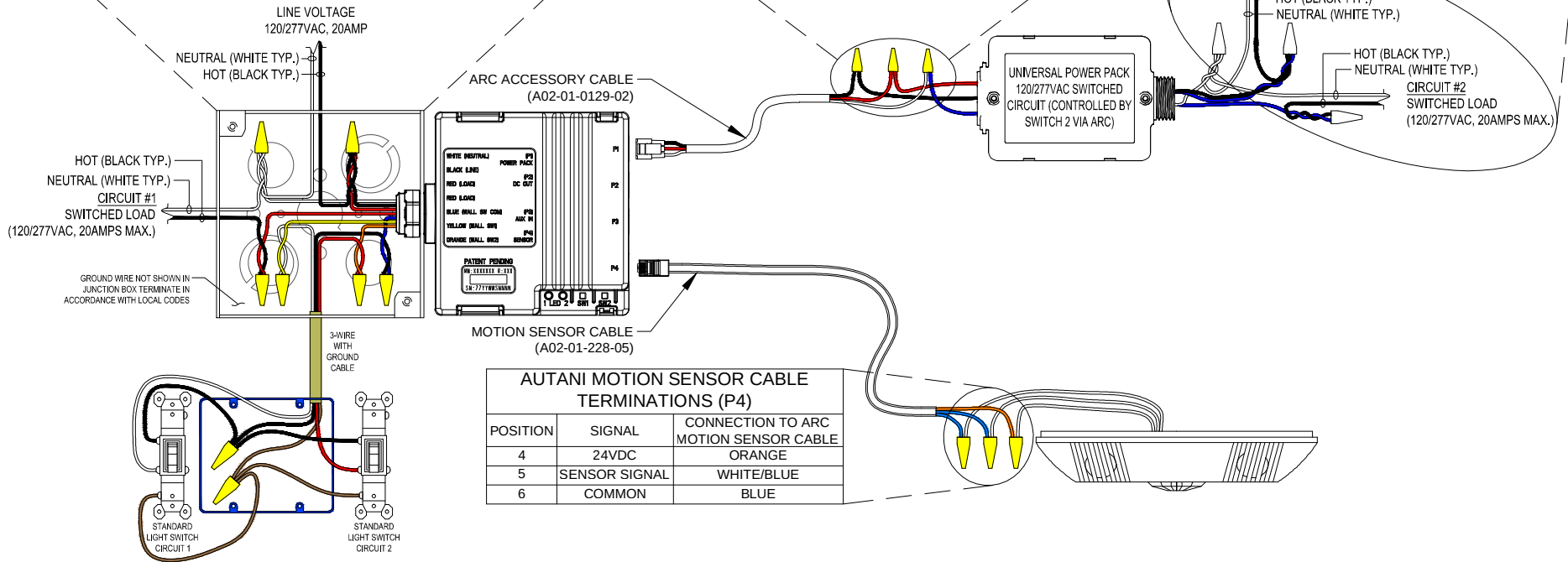
THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.

PROJECT NAME	SAMPLES		7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046
LOCATION	COLUMBIA, MD		
SYSTEM	APP	TITLE	AUTANI LIGHTING DETAIL ARC-R / 2CKT / 2SWP3 / 3RD PTY. OS.
JOB NUMBER	APPLICATIONS	SCALE	N.T.S.
		DO NOT SCALE TO DRAWING	SHEET 1 OF 1

LINE VOLTAGE SIDE OF ARC			
POSITION	FROM (ARC)	SIGNAL	CONNECTION TO
1	WHITE	NEUTRAL	NEUTRAL (LINE & LOAD 1)
2	BLACK	LINE	HOT (LINE)
3	RED	LOAD	HOT (LINE)
4	RED	LOAD	HOT (LOAD 1)
5	BLUE	WALL SW COM	COMMON (SW1 & SW2)
6	YELLOW	WALL SW1	HOT (SW1)
7	ORANGE	WALL SW2	HOT (SW2)

ARC ACCESSORY CABLE TERMINATIONS (P1)			
POSITION	FROM ACCESSORY CABLE (ARC)	SIGNAL	UVPP CONNECTIONS
1	BLACK	GROUND	BLACK
2	RED	POWER	RED
3	WHITE	CONTROL	BLUE

LINE VOLTAGE SIDE OF UVPP			
POSITION	FROM UVPP	SIGNAL	CONNECTION TO
1	WHITE	NEUTRAL	NEUTRAL (LINE & LOAD 2)
2	BLACK	LINE	HOT (LINE)
3	BLUE	LOAD	HOT (LINE)
4	BLUE	LOAD	HOT (LOAD 2)



**AUTANI LIGHTING DETAIL
(ARC-R, 2 CIRCUITS WITH
(2) SWITCHES ON LINE SIDE,
AND 3RD PARTY OCCUPANCY SENSOR)**

THIS WIRING CONFIGURATION IS ONLY APPLICABLE FOR THE ARC-R (A02-01-0133-01)

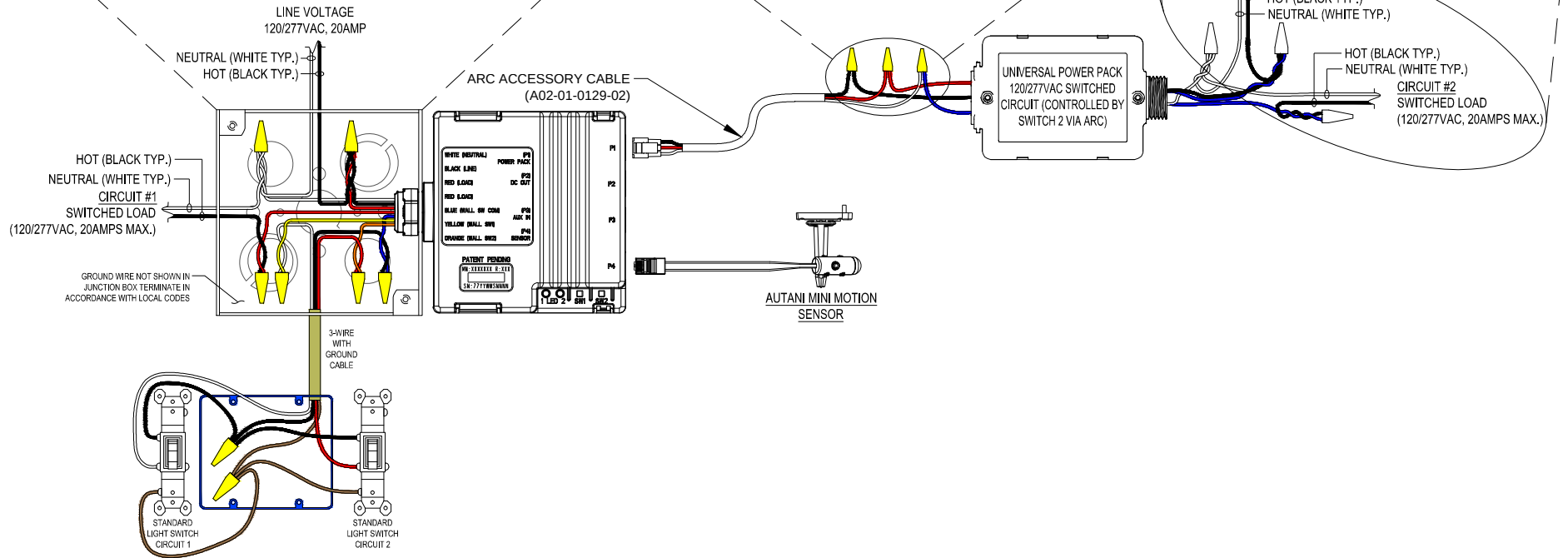
THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.			
PROJECT NAME SAMPLES		autani Automating Green	
LOCATION COLUMBIA, MD		7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046	
SYSTEM APP		TITLE AUTANI LIGHTING DETAIL ARC-R / 2CKT / 2SWLS / 3RD PTY. OS.	
JOB NUMBER APPLICATIONS		DWG. NO. ARC-R-21200010	
SCALE: N.T.S.		SHEET 1 OF 1	

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

LINE VOLTAGE SIDE OF ARC			
POSITION	FROM (ARC)	SIGNAL	CONNECTION TO
1	WHITE	NEUTRAL	NEUTRAL (LINE & LOAD 1)
2	BLACK	LINE	HOT (LINE)
3	RED	LOAD	HOT (LINE)
4	RED	LOAD	HOT (LOAD 1)
5	BLUE	WALL SW COM	COMMON (SW1 & SW2)
6	YELLOW	WALL SW1	HOT (SW1)
7	ORANGE	WALL SW2	HOT (SW2)

ARC ACCESSORY CABLE TERMINATIONS (P1)			
POSITION	FROM ACCESSORY CABLE (ARC)	SIGNAL	UVPP CONNECTIONS
1	BLACK	GROUND	BLACK
2	RED	POWER	RED
3	WHITE	CONTROL	BLUE

LINE VOLTAGE SIDE OF UVPP			
POSITION	FROM UVPP	SIGNAL	CONNECTION TO
1	WHITE	NEUTRAL	NEUTRAL (LINE & LOAD 2)
2	BLACK	LINE	HOT (LINE)
3	BLUE	LOAD	HOT (LINE)
4	BLUE	LOAD	HOT (LOAD 2)



**AUTANI LIGHTING DETAIL
(ARC-R, 2 CIRCUITS WITH
(2) SWITCHES ON LINE SIDE,
AND MINI OCCUPANCY SENSOR)**

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

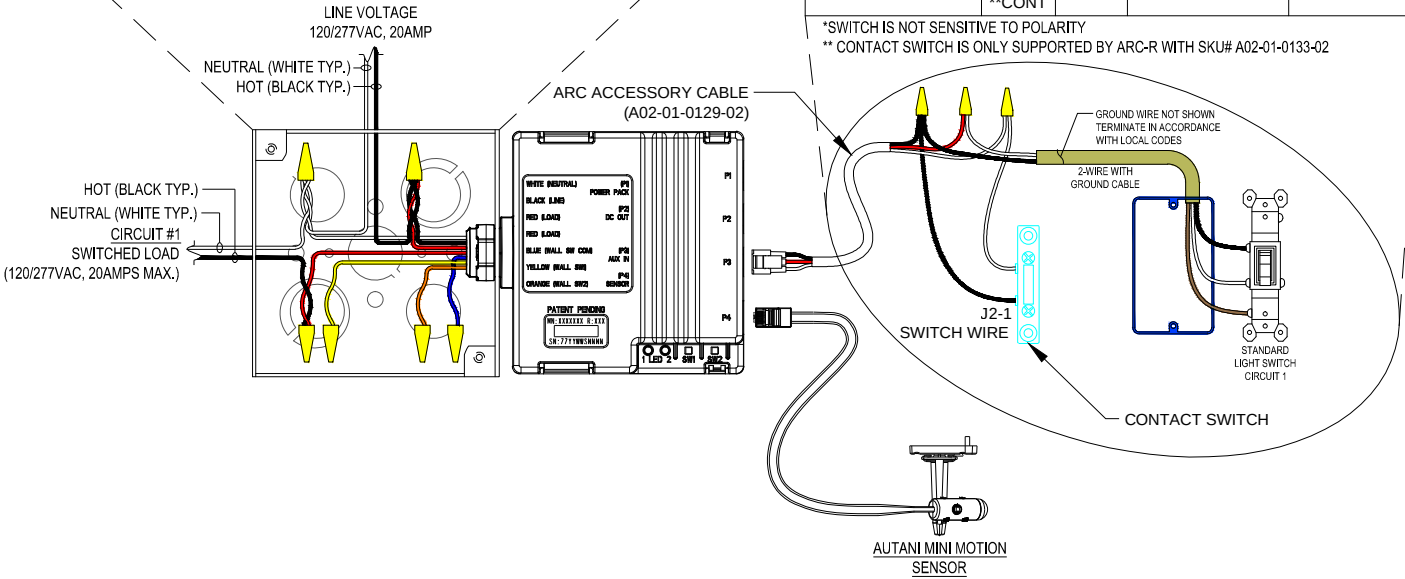
THIS WIRING CONFIGURATION IS ONLY APPLICABLE FOR THE ARC-R (A02-01-0133-01)

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.			
PROJECT NAME SAMPLES		7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046	
LOCATION COLUMBIA, MD		TITLE AUTANI LIGHTING DETAIL ARC-R / 2CKT / 2SWLS / OS.	
SYSTEM APP		JOB NUMBER APPLICATIONS	
SCALE N.T.S.		SHEET 1 OF 1	

LINE VOLTAGE SIDE OF ARC			
POSITION	FROM (ARC)	SIGNAL	CONNECTION TO
1	WHITE	NEUTRAL	NEUTRAL (LINE & LOAD 1)
2	BLACK	LINE	HOT (LINE)
3	RED	LOAD	HOT (LINE)
4	RED	LOAD	HOT (LOAD 1)
5	BLUE	WALL SW COM	NOT CONNECTED
6	YELLOW	WALL SW1	NOT CONNECTED
7	ORANGE	WALL SW2	NOT CONNECTED

ARC ACCESSORY CABLE TERMINATIONS (P3)				
FROM ARC ACCESSORY CABLE	ARC SIGNAL	COLOR	TO MAGNETIC CONTACT SWITCH	TO STANDARD LIGHT SWITCH
J2-1	GND	BLACK	*SWITCH HOLE	SWITCH GND
J2-2	SW1	RED	N/C	SWITCH HOT
J2-3	SW2/ **CONT	WHITE	*SWITCH HOLE	N/C

*SWITCH IS NOT SENSITIVE TO POLARITY
** CONTACT SWITCH IS ONLY SUPPORTED BY ARC-R WITH SKU# A02-01-0133-02



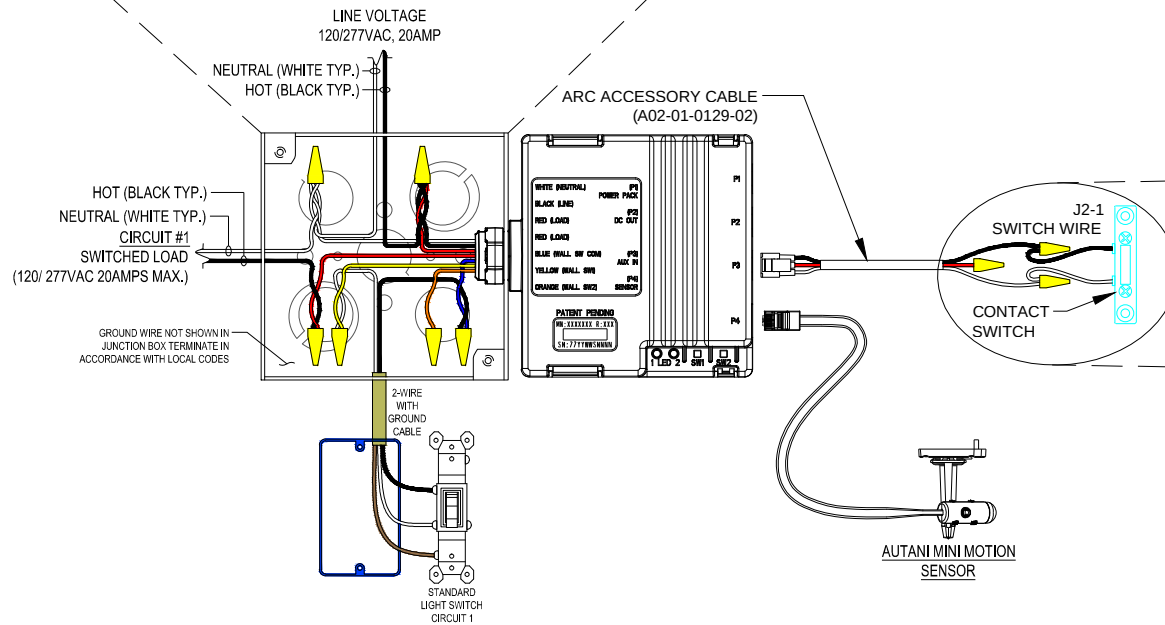
AUTANI LIGHTING DETAIL
(ARC-R WITH (1) SWITCH AT P3, CONTACT
SENSOR , AND MINI OCCUPANCY SENSOR)

THIS WIRING CONFIGURATION IS ONLY APPLICABLE FOR THE ARC-R (A02-01-0133-02)

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.			
PROJECT NAME	SAMPLES	autani Automating Green	
LOCATION	COLUMBIA, MD	7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046	
SYSTEM	APP	JOB NUMBER	APPLICATIONS
SCALE	N.T.S.	DWG. NO.	ARC-R-10011100
DO NOT SCALE TO DRAWING		SHEET	1 OF 1

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

LINE VOLTAGE SIDE OF ARC			
POSITION	FROM (ARC)	SIGNAL	CONNECTION TO
1	WHITE	NEUTRAL	NEUTRAL (LINE & LOAD 1)
2	BLACK	LINE	HOT (LINE)
3	RED	LOAD	HOT (LINE)
4	RED	LOAD	HOT (LOAD 1)
5	BLUE	WALL SW COM	COMMON (SW 1)
6	YELLOW	WALL SW1	HOT (SW 1)
7	ORANGE	WALL SW2	NOT CONNECTED



ARC ACCESSORY CABLE TERMINATIONS (P3)			
FROM ARC ACCESSORY CABLE	ARC SIGNAL	COLOR	TO MAGNETIC CONTACT SWITCH
J2-1	GND	BLACK	*SWITCH HOLE
J2-2	SW1	RED	N/C
J2-3	SW2/ **CONT	WHITE	*SWITCH HOLE

*SWITCH IS NOT SENSITIVE TO POLARITY
** CONTACT SWITCH IS ONLY SUPPORTED BY ARC-R WITH SKU# A02-01-0133-02

AUTANI LIGHTING DETAIL
(ARC-R WITH (1) SWITCH ON LINE SIDE,
CONTACT SENSOR, AND MINI
OCCUPANCY SENSOR)

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

THIS WIRING CONFIGURATION IS ONLY APPLICABLE FOR THE ARC-R (A02-01-0133-02)

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.

PROJECT NAME SAMPLES		7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046	
LOCATION COLUMBIA, MD		TITLE AUTANI LIGHTING DETAIL ARC-R / 1SWLS / CS / OS	
SYSTEM APP	JOB NUMBER APPLICATIONS	SHEET B	REV. -
SCALE: N.T.S.		DO NOT SCALE TO DRAWING	
SHEET 1 OF 1		DWG. NO. ARC-R-10101100	

8

7

6

5

4

3

DWG. NO.
ARC-R-21101010SHT.
1REV.
-

1

LINE VOLTAGE SIDE OF ARC			
POSITION	FROM (ARC)	SIGNAL	CONNECTION TO
1	WHITE	NEUTRAL	NEUTRAL (LINE & LOAD 1)
2	BLACK	LINE	HOT (LINE)
3	RED	LOAD	HOT (LINE)
4	RED	LOAD	HOT (LOAD 1)
5	BLUE	WALL SW COM	COMMON (SW 1)
6	YELLOW	WALL SW1	HOT (SW 1)
7	ORANGE	WALL SW2	NOT CONNECTED

LINE VOLTAGE
120/277VAC, 20AMP

NEUTRAL (WHITE TYP.)
HOT (BLACK TYP.)

HOT (BLACK TYP.)
NEUTRAL (WHITE TYP.)
CIRCUIT #1
SWITCHED LOAD
(120/277VAC 20AMPS MAX.)

GROUND WIRE NOT SHOWN IN
JUNCTION BOX TERMINATE IN
ACCORDANCE WITH LOCAL CODES

2-WIRE
WITH
GROUND
CABLE

STANDARD
LIGHT SWITCH
CIRCUIT 1

ARC ACCESSORY CABLE
(A02-01-0129-02)

MOTION SENSOR CABLE
(A02-01-228-05)

AUTANI MOTION SENSOR CABLE TERMINATIONS (P4)		
POSITION	SIGNAL	CONNECTION TO ARC MOTION SENSOR CABLE
4	24VDC	ORANGE
5	SENSOR SIGNAL	WHITE/BLUE
6	COMMON	BLUE

ARC ACCESSORY CABLE TERMINATIONS (P1)

POSITION	FROM ACCESSORY CABLE (ARC)	SIGNAL	UVPP CONNECTIONS
1	BLACK	GROUND	BLACK
2	RED	POWER	RED
3	WHITE	CONTROL	BLUE

LINE VOLTAGE SIDE OF UVPP			
POSITION	FROM UVPP	SIGNAL	CONNECTION TO
1	WHITE	NEUTRAL	NEUTRAL (LINE & LOAD 2)
2	BLACK	LINE	HOT (LINE)
3	BLUE	LOAD	HOT (LINE)
4	BLUE	LOAD	HOT (LOAD 2)

LINE VOLTAGE
120/277VAC, 20AMP

HOT (BLACK TYP.)
NEUTRAL (WHITE TYP.)

HOT (BLACK TYP.)
NEUTRAL (WHITE TYP.)
CIRCUIT #2
SWITCHED LOAD
(120/277VAC, 20AMPS MAX.)

ARC ACCESSORY CABLE TERMINATIONS (P3)

FROM ARC ACCESSORY CABLE	ARC SIGNAL	COLOR	TO MAGNETIC CONTACT SWITCH
J2-1	GND	BLACK	*SWITCH HOLE
J2-2	SW1	RED	N/C
J2-3	SW2/ **CONT	WHITE	*SWITCH HOLE

*SWITCH IS NOT SENSITIVE TO POLARITY

** CONTACT SWITCH IS ONLY SUPPORTED BY ARC-R WITH SKU# A02-01-0133-02

AUTANI LIGHTING DETAIL (ARC-R 2 CIRCUITS WITH (1) SWITCH ON LINE SIDE, CONTACT SENSOR, AND THIRD PARTY OCCUPANCY SENSOR)

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

THIS WIRING CONFIGURATION IS ONLY APPLICABLE FOR THE ARC-R (A02-01-0133-02)

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.

PROJECT NAME SAMPLES		7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046	
LOCATION COLUMBIA, MD		TITLE AUTANI LIGHTING DETAIL	
SYSTEM APP		ARC-R / 2CKT / 1SWLS / CS / 3RD PTY. OS.	
JOB NUMBER APPLICATIONS		DWG. NO. ARC-R-21101010	
SCALE: N.T.S.		SHEET 1 OF 1	

8

7

6

5

4

3

2

1

SPECIFICATIONS:

ELECTRICAL

Load Capacity: 15A @ 120VAC
Input Voltage: 120VAC typ.
Max Switching Power: 1800VA

RADIO NETWORK (*autaniNet*)

IEEE 802.15.4-2003 2.4GHz ISM (ZigBee)
Range: Approx. 600' LOS transmit/ receive

REGULATORY APPROVALS

UL Pending
Contains FCC Certified Module:
FCC ID: V8NWAT1000142
IC: 7737A-WAT1000142

ENVIRONMENTAL

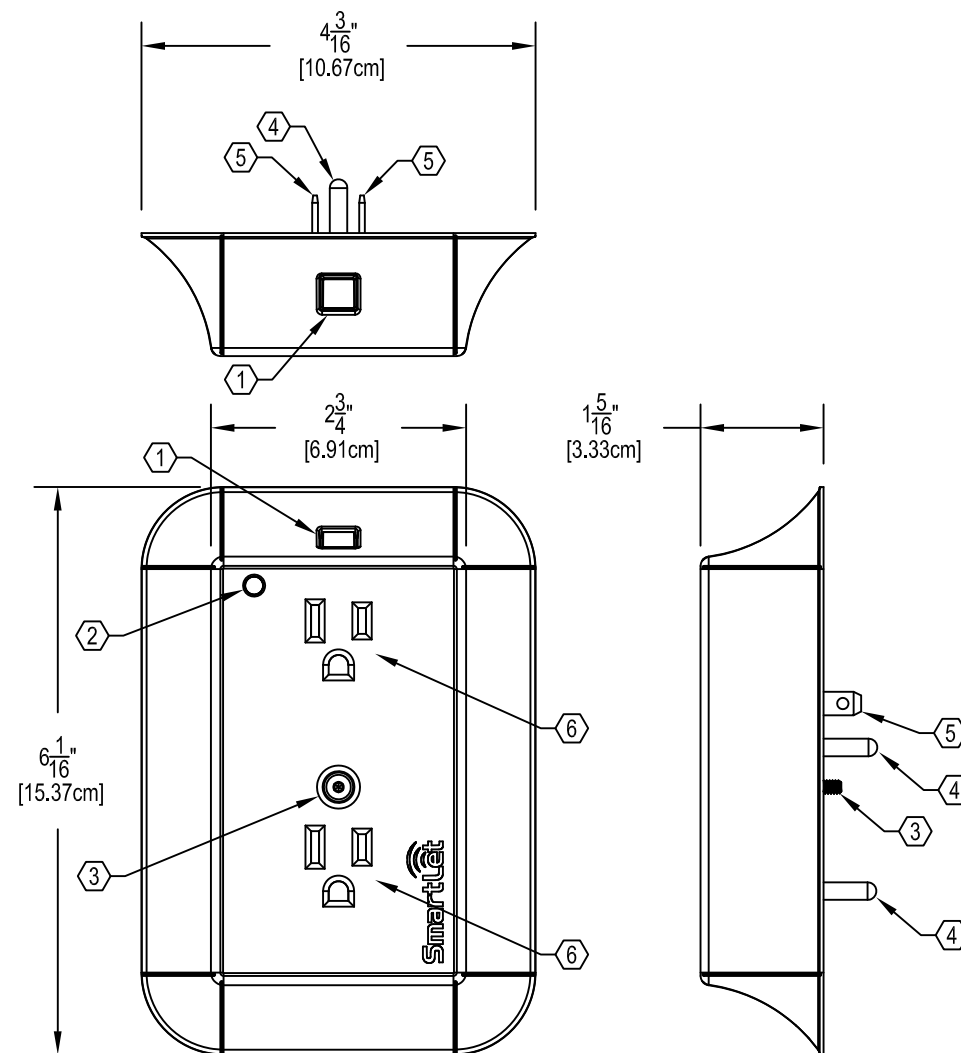
Test Conditions of all ratings 25°C
Operating Temperature: 0° to 70°C
Storage Temperature: -25° to 80°C

PHYSICAL

Dimensions (HxWxD): 6.05 x 4.20 x 1.31in
Color: White
Weight: Approx. 1lb

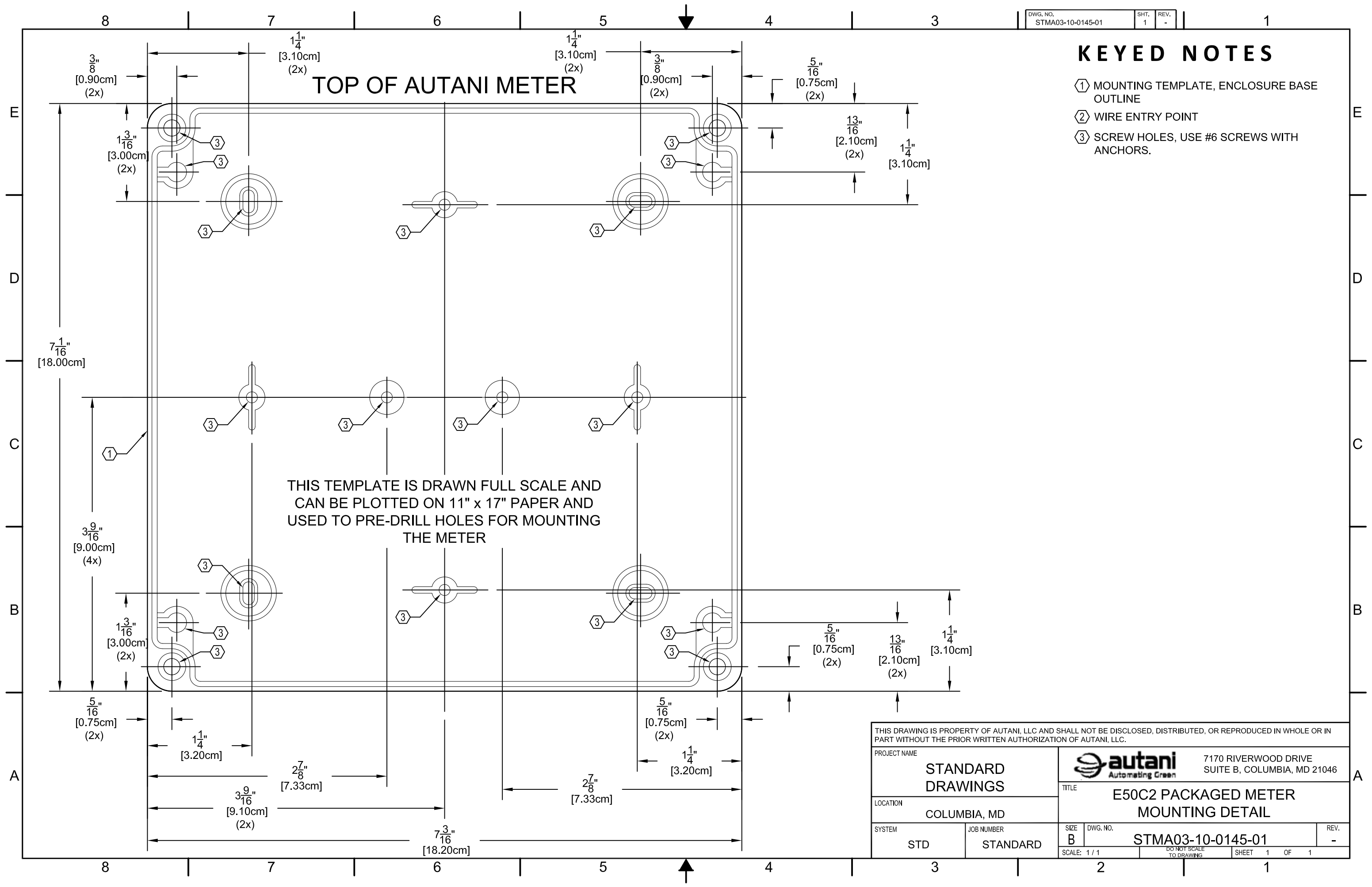
KEYED NOTES

- ① LOCAL OVER-RIDE PUSHBUTTON
- ② LED STATUS INDICATOR
- ③ MOUNTING SCREW TO SECURE ON STANDARD DUPLEX RECEPTACLE
- ④ GROUND PRONGS TO INSERT INTO TOP AND BOTTOM GROUND CONNECTIONS IN STANDARD DUPLEX RECEPTACLE
- ⑤ HOT AND NEUTRAL PRONGS TO INSERT INTO TOP RECEPTACLE IN STANDARD DUPLEX RECEPTACLE



PHYSICAL
SCALE: 1/2

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.									
PROJECT NAME STANDARD DRAWINGS					7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046				
LOCATION COLUMBIA, MD			TITLE SMARTLET OUTLET CONTROLLER						
SYSTEM STD		JOB NUMBER STANDARD	SIZE B	DWG. NO. STA07-01-0150-01				REV. -	
			SCALE: AS SHOWN		DO NOT SCALE TO DRAWING.		SHEET 1 OF 1		

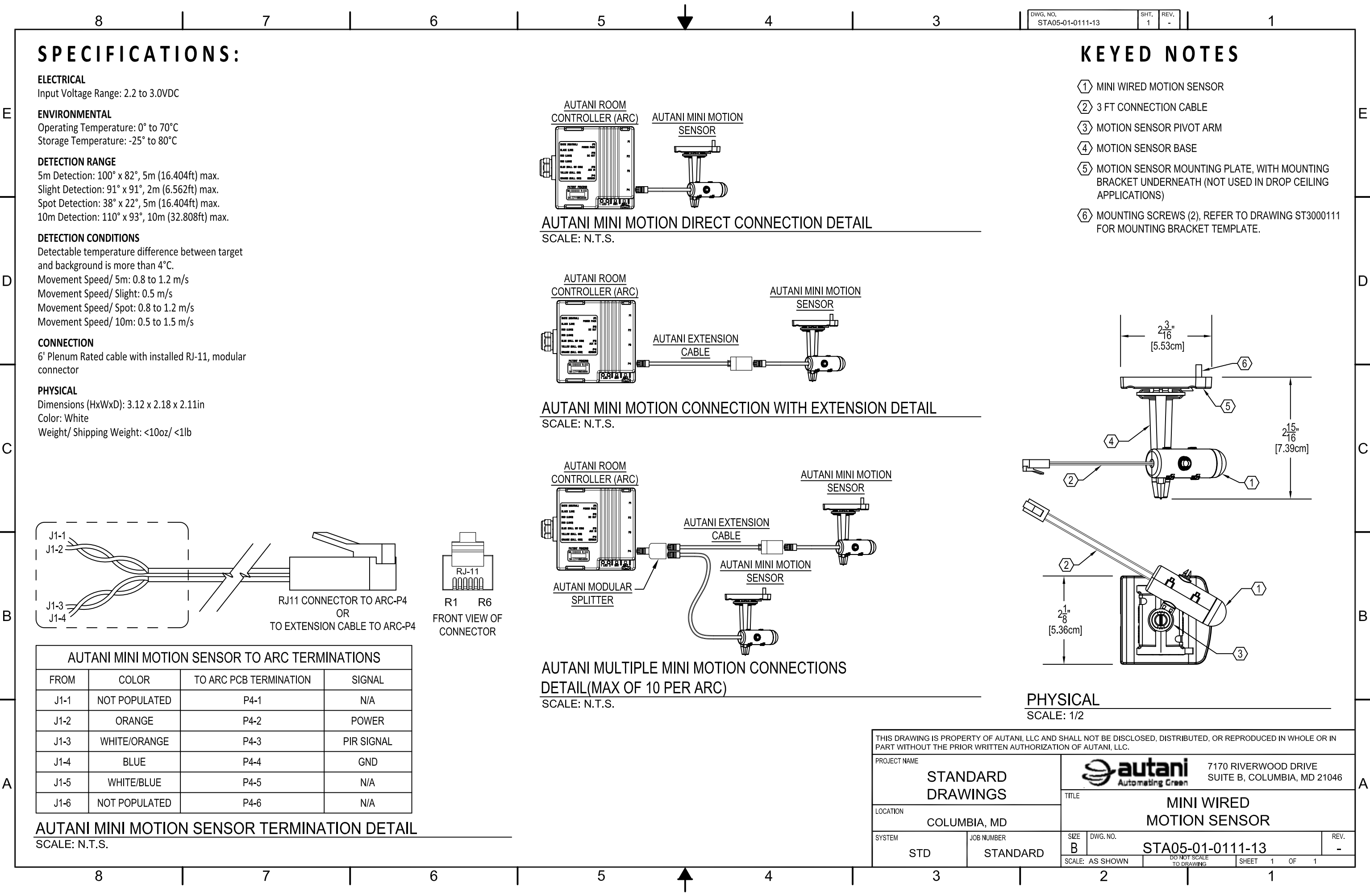


KEYED NOTES

- ① MOUNTING TEMPLATE, ENCLOSURE BASE OUTLINE
- ② WIRE ENTRY POINT
- ③ SCREW HOLES, USE #6 SCREWS WITH ANCHORS.

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.

PROJECT NAME				7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046	
STANDARD DRAWINGS		TITLE E50C2 PACKAGED METER MOUNTING DETAIL			
LOCATION COLUMBIA, MD					
SYSTEM STD		JOB NUMBER STANDARD		SIZE B	DWG. NO. STMA03-10-0145-01
				SCALE: 1 / 1	DO NOT SCALE TO DRAWING.
				SHEET 1	OF 1



SPECIFICATIONS:

ELECTRICAL
Input Voltage Range: 2.2 to 3.0VDC

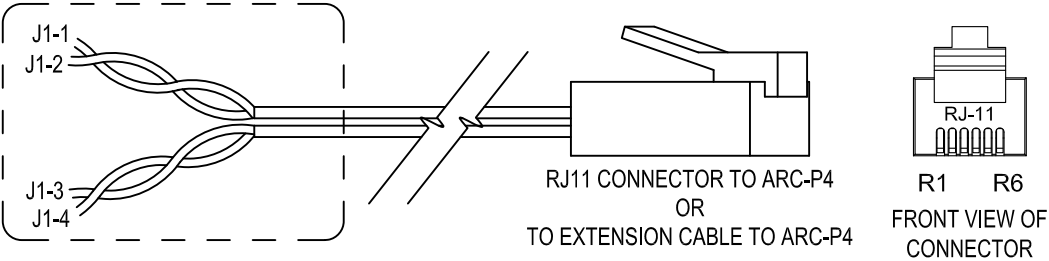
ENVIRONMENTAL
Operating Temperature: 0° to 70°C
Storage Temperature: -25° to 80°C

DETECTION RANGE
5m Detection: 100° x 82°, 5m (16.404ft) max.
Slight Detection: 91° x 91°, 2m (6.562ft) max.
Spot Detection: 38° x 22°, 5m (16.404ft) max.
10m Detection: 110° x 93°, 10m (32.808ft) max.

DETECTION CONDITIONS
Detectable temperature difference between target and background is more than 4°C.
Movement Speed/ 5m: 0.8 to 1.2 m/s
Movement Speed/ Slight: 0.5 m/s
Movement Speed/ Spot: 0.8 to 1.2 m/s
Movement Speed/ 10m: 0.5 to 1.5 m/s

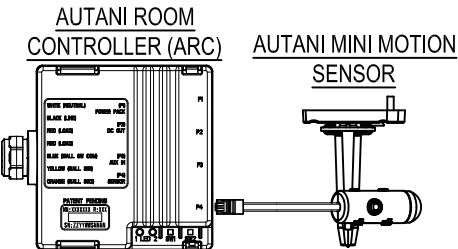
CONNECTION
6' Plenum Rated cable with installed RJ-11, modular connector

PHYSICAL
Dimensions (HxWxD): 3.12 x 2.18 x 2.11in
Color: White
Weight/ Shipping Weight: <10oz/ <1lb

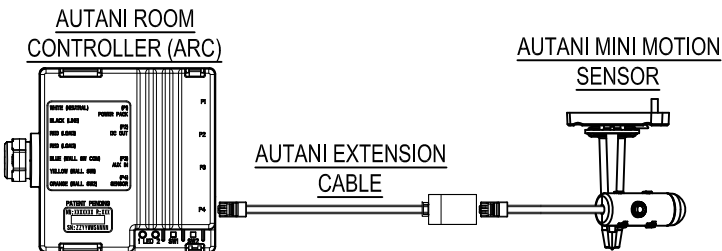


AUTANI MINI MOTION SENSOR TO ARC TERMINATIONS			
FROM	COLOR	TO ARC PCB TERMINATION	SIGNAL
J1-1	NOT POPULATED	P4-1	N/A
J1-2	ORANGE	P4-2	POWER
J1-3	WHITE/ORANGE	P4-3	PIR SIGNAL
J1-4	BLUE	P4-4	GND
J1-5	WHITE/BLUE	P4-5	N/A
J1-6	NOT POPULATED	P4-6	N/A

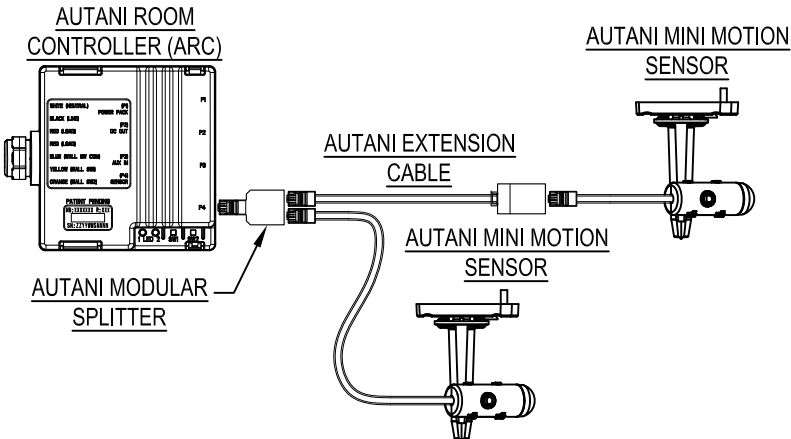
AUTANI MINI MOTION SENSOR TERMINATION DETAIL
SCALE: N.T.S.



AUTANI MINI MOTION DIRECT CONNECTION DETAIL
SCALE: N.T.S.



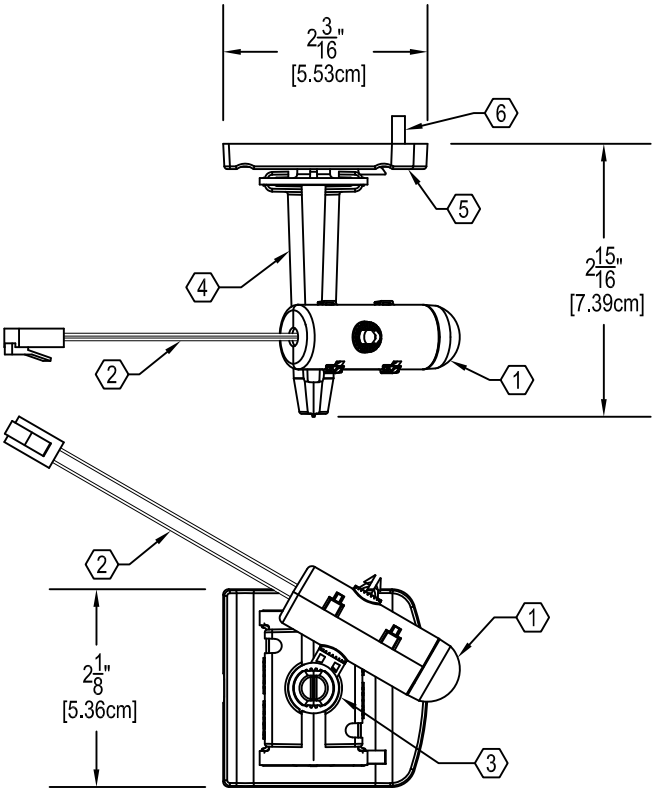
AUTANI MINI MOTION CONNECTION WITH EXTENSION DETAIL
SCALE: N.T.S.



AUTANI MULTIPLE MINI MOTION CONNECTIONS
DETAIL(MAX OF 10 PER ARC)
SCALE: N.T.S.

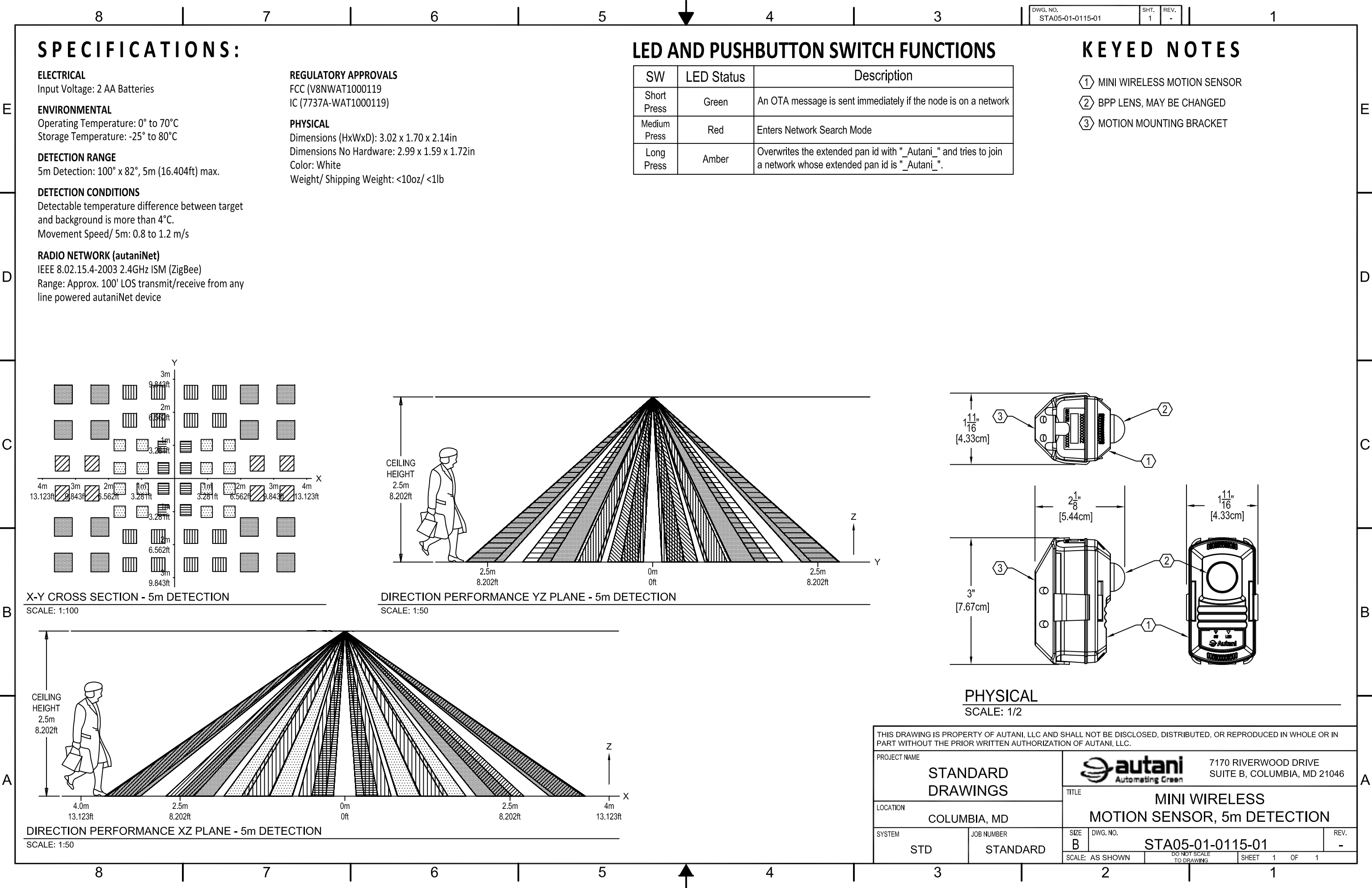
KEYED NOTES

- ① MINI WIRED MOTION SENSOR
- ② 3 FT CONNECTION CABLE
- ③ MOTION SENSOR PIVOT ARM
- ④ MOTION SENSOR BASE
- ⑤ MOTION SENSOR MOUNTING PLATE, WITH MOUNTING BRACKET UNDERNEATH (NOT USED IN DROP CEILING APPLICATIONS)
- ⑥ MOUNTING SCREWS (2), REFER TO DRAWING ST3000111 FOR MOUNTING BRACKET TEMPLATE.



PHYSICAL
SCALE: 1/2

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.					
PROJECT NAME			autani Automating Green		
STANDARD DRAWINGS			7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046		
LOCATION			TITLE		
COLUMBIA, MD			MINI WIRED MOTION SENSOR		
SYSTEM		JOB NUMBER		SIZE	DWG. NO.
STD		STANDARD		B	STA05-01-0111-13
SCALE: AS SHOWN		DO NOT SCALE TO DRAWING		SHEET	1 OF 1



SPECIFICATIONS:

ELECTRICAL
Input Voltage: 2 AA Batteries

ENVIRONMENTAL
Operating Temperature: 0° to 70°C
Storage Temperature: -25° to 80°C

DETECTION RANGE
5m Detection: 100° x 82°, 5m (16.404ft) max.

DETECTION CONDITIONS
Detectable temperature difference between target and background is more than 4°C.
Movement Speed/ 5m: 0.8 to 1.2 m/s

RADIO NETWORK (autaniNet)
IEEE 8.02.15.4-2003 2.4GHz ISM (ZigBee)
Range: Approx. 100' LOS transmit/receive from any line powered autaniNet device

REGULATORY APPROVALS
FCC (V8NWAT1000119)
IC (7737A-WAT1000119)

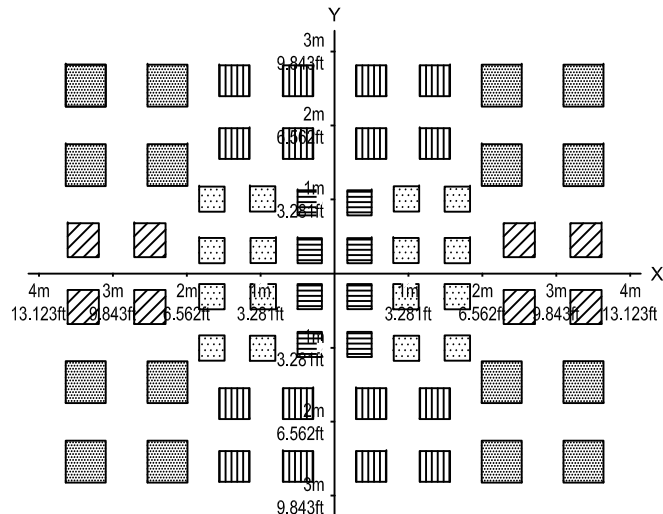
PHYSICAL
Dimensions (HxWxD): 3.02 x 1.70 x 2.14in
Dimensions No Hardware: 2.99 x 1.59 x 1.72in
Color: White
Weight/ Shipping Weight: <10oz/ <1lb

LED AND PUSHBUTTON SWITCH FUNCTIONS

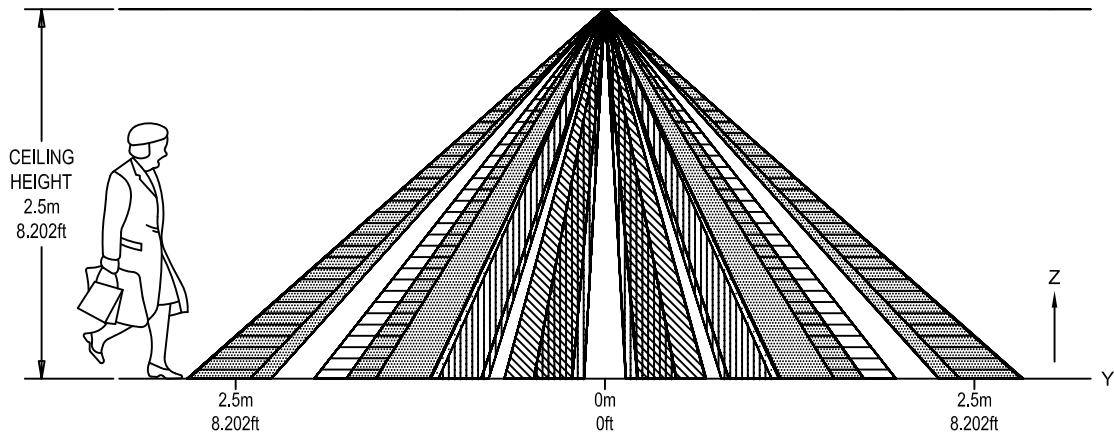
SW	LED Status	Description
Short Press	Green	An OTA message is sent immediately if the node is on a network
Medium Press	Red	Enters Network Search Mode
Long Press	Amber	Overwrites the extended pan id with "_Autani_" and tries to join a network whose extended pan id is "_Autani_".

KEYED NOTES

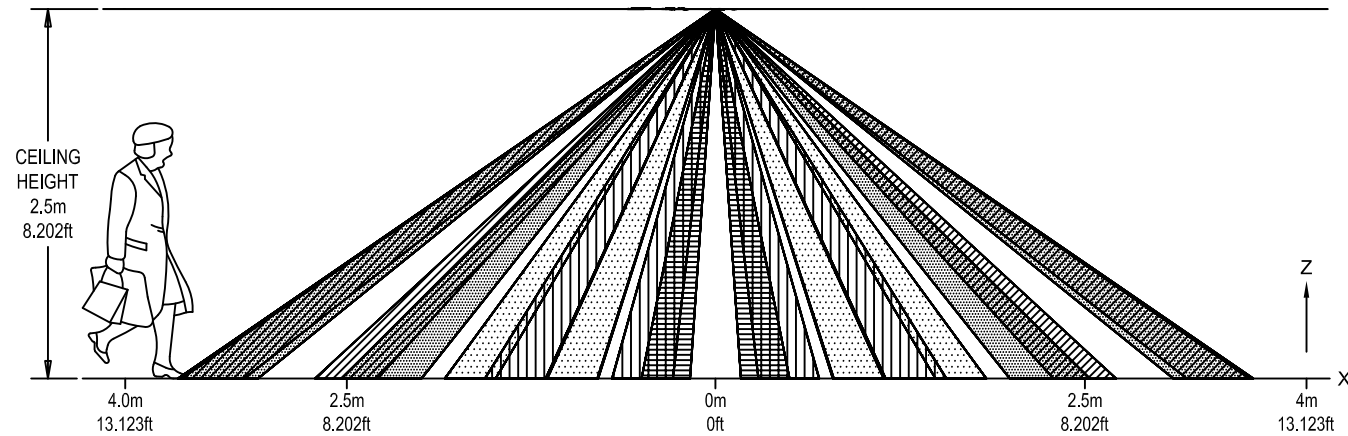
- ① MINI WIRELESS MOTION SENSOR
- ② BPP LENS, MAY BE CHANGED
- ③ MOTION MOUNTING BRACKET



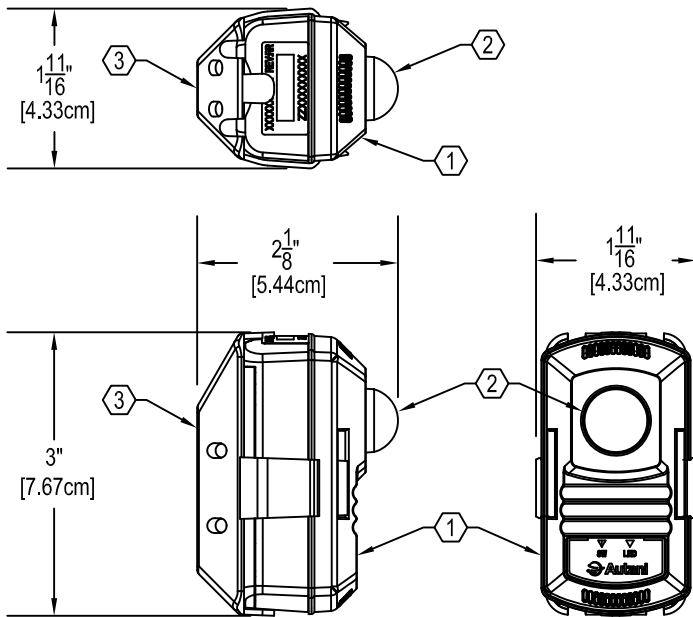
X-Y CROSS SECTION - 5m DETECTION
SCALE: 1:100



DIRECTION PERFORMANCE YZ PLANE - 5m DETECTION
SCALE: 1:50

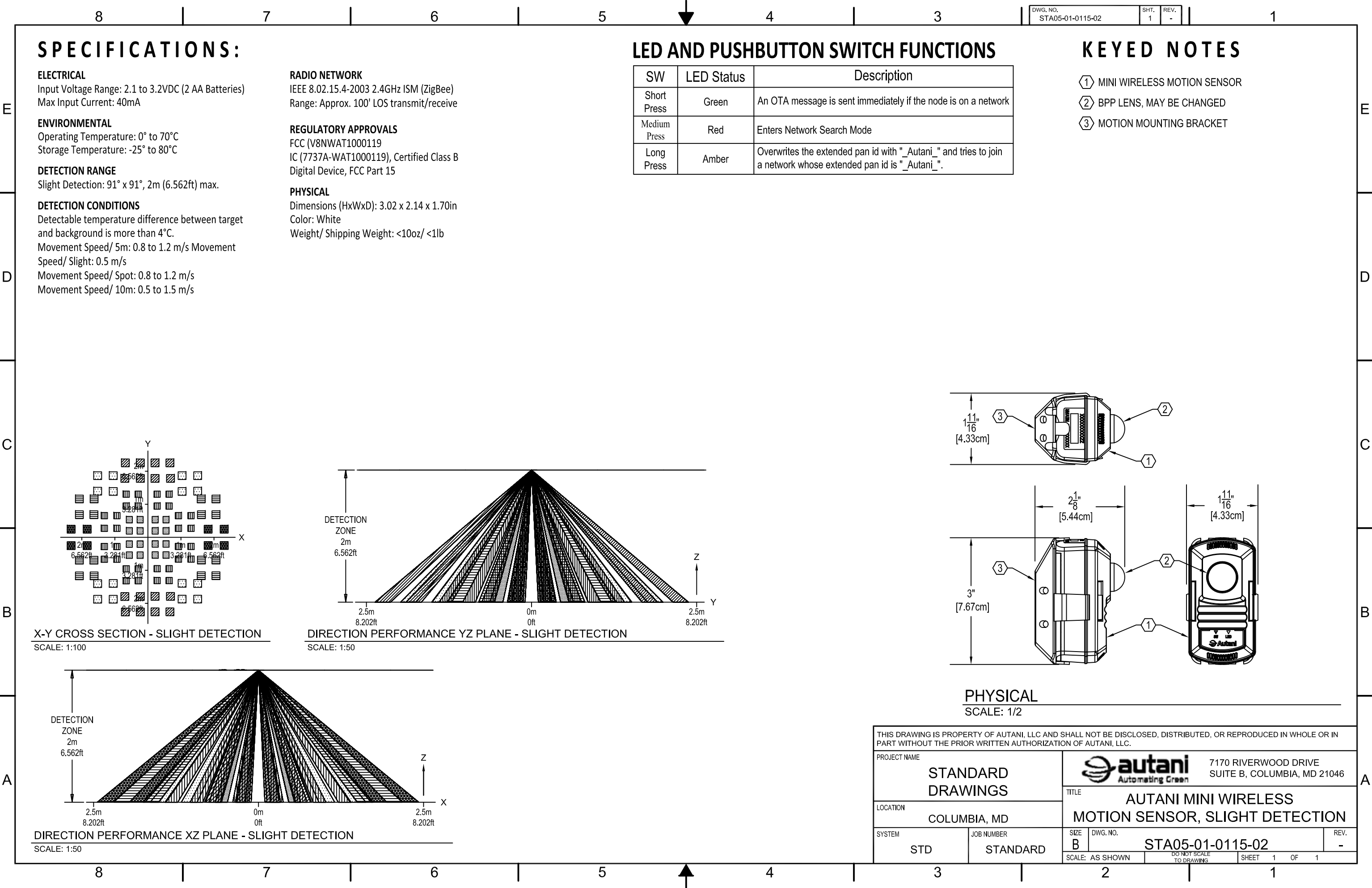


DIRECTION PERFORMANCE XZ PLANE - 5m DETECTION
SCALE: 1:50



PHYSICAL
SCALE: 1/2

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.									
PROJECT NAME STANDARD DRAWINGS					7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046				
LOCATION COLUMBIA, MD			TITLE MINI WIRELESS MOTION SENSOR, 5m DETECTION						
SYSTEM STD		JOB NUMBER STANDARD	SIZE B	DWG. NO. STA05-01-0115-01	REV. -				
			SCALE: AS SHOWN		DO NOT SCALE TO DRAWING		SHEET 1 OF 1		



SPECIFICATIONS:

ELECTRICAL

Input Voltage Range: 2.1 to 3.2VDC (2 AA Batteries)
Max Input Current: 40mA

ENVIRONMENTAL

Operating Temperature: 0° to 70°C
Storage Temperature: -25° to 80°C

DETECTION RANGE

Slight Detection: 91° x 91°, 2m (6.562ft) max.

DETECTION CONDITIONS

Detectable temperature difference between target and background is more than 4°C.
Movement Speed/ 5m: 0.8 to 1.2 m/s Movement Speed/ Slight: 0.5 m/s
Movement Speed/ Spot: 0.8 to 1.2 m/s
Movement Speed/ 10m: 0.5 to 1.5 m/s

RADIO NETWORK

IEEE 8.02.15.4-2003 2.4GHz ISM (ZigBee)
Range: Approx. 100' LOS transmit/receive

REGULATORY APPROVALS

FCC (V8NWAT1000119)
IC (7737A-WAT1000119), Certified Class B
Digital Device, FCC Part 15

PHYSICAL

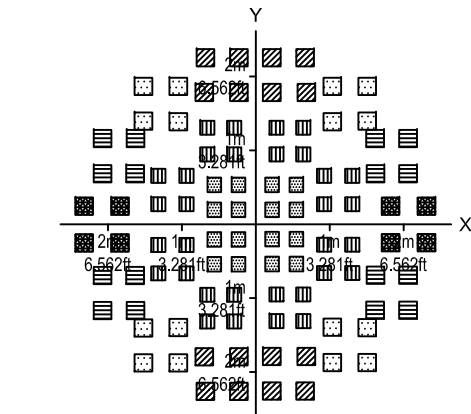
Dimensions (HxWxD): 3.02 x 2.14 x 1.70in
Color: White
Weight/ Shipping Weight: <10oz/ <1lb

LED AND PUSHBUTTON SWITCH FUNCTIONS

SW	LED Status	Description
Short Press	Green	An OTA message is sent immediately if the node is on a network
Medium Press	Red	Enters Network Search Mode
Long Press	Amber	Overwrites the extended pan id with "_Autani_" and tries to join a network whose extended pan id is "_Autani_"

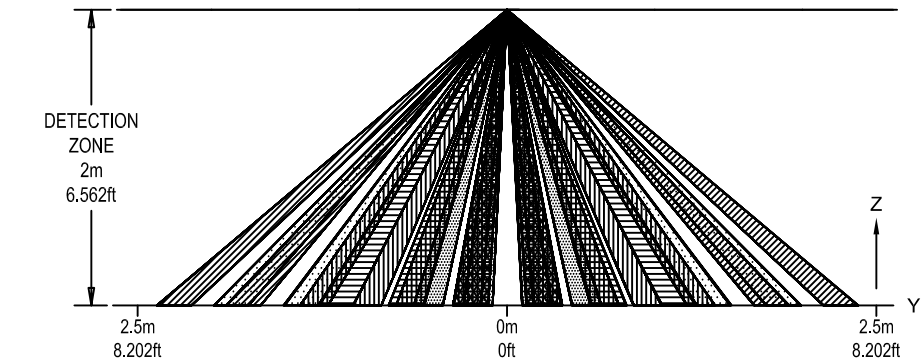
KEYED NOTES

- ① MINI WIRELESS MOTION SENSOR
- ② BPP LENS, MAY BE CHANGED
- ③ MOTION MOUNTING BRACKET



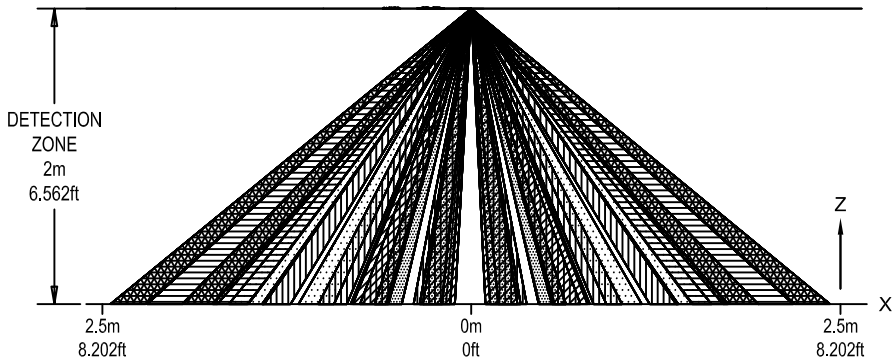
X-Y CROSS SECTION - SLIGHT DETECTION

SCALE: 1:100



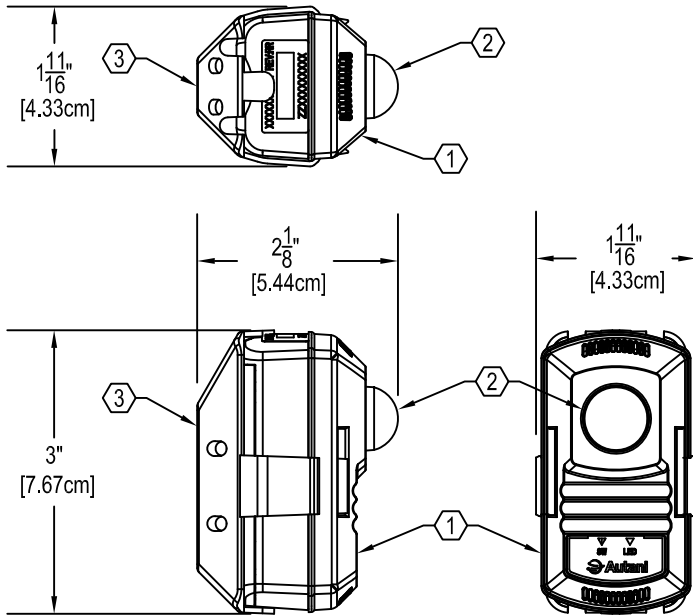
DIRECTION PERFORMANCE YZ PLANE - SLIGHT DETECTION

SCALE: 1:50



DIRECTION PERFORMANCE XZ PLANE - SLIGHT DETECTION

SCALE: 1:50



PHYSICAL

SCALE: 1/2

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.			
PROJECT NAME		autani Automating Green	
STANDARD DRAWINGS		7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046	
LOCATION		TITLE	
COLUMBIA, MD		AUTANI MINI WIRELESS MOTION SENSOR, SLIGHT DETECTION	
SYSTEM		JOB NUMBER	
STD		STANDARD	
SIZE		DWG. NO.	
B		STA05-01-0115-02	
SCALE: AS SHOWN		REV.	
DO NOT SCALE TO DRAWING		-	
SHEET		1 OF 1	

SPECIFICATIONS:

ELECTRICAL

Input Voltage Range: 2.1 to 3.2VDC (2 AA Batteries)
Max Input Current: 40mA

ENVIRONMENTAL

Operating Temperature: 0° to 70°C
Storage Temperature: -25° to 80°C

DETECTION RANGE

Spot Detection: 38° x 22°, 5m (16.404ft) max.

DETECTION CONDITIONS

Detectable temperature difference between target and background is more than 4°C.

Movement Speed/ 5m: 0.8 to 1.2 m/s Movement

Speed/ Slight: 0.5 m/s

Movement Speed/ Spot: 0.8 to 1.2 m/s

Movement Speed/ 10m: 0.5 to 1.5 m/s

RADIO NETWORK

IEEE 802.15.4-2003 2.4GHz ISM (ZigBee)
Range: Approx. 100' LOS transmit/receive

REGULATORY APPROVALS

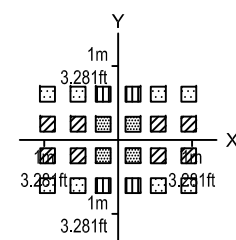
FCC (V8NWT1000119)
IC (7737A-WAT1000119), Certified Class B
Digital Device, FCC Part 15

PHYSICAL

Dimensions (HxWxD): 3.02 x 2.14 x 1.70in

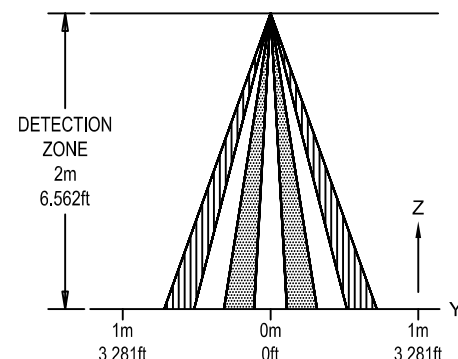
Color: White

Weight/ Shipping Weight: <10oz/ <1lb



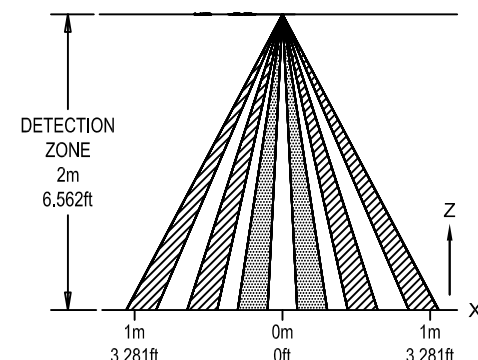
X-Y CROSS SECTION - SPOT DETECTION

SCALE: 1:100



DIRECTION PERFORMANCE YZ PLANE - SPOT DETECTION

SCALE: 1:50



DIRECTION PERFORMANCE XZ PLANE - SPOT DETECTION

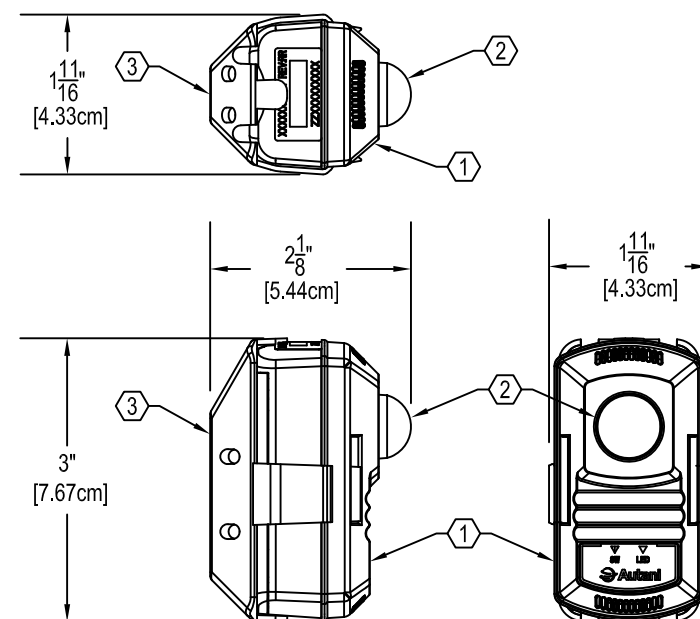
SCALE: 1:50

LED AND PUSHBUTTON SWITCH FUNCTIONS

SW	LED Status	Description
Short Press	Green	An OTA message is sent immediately if the node is on a network
Medium Press	Red	Enters Network Search Mode
Long Press	Amber	Overwrites the extended pan id with "_Autani_" and tries to join a network whose extended pan id is "_Autani_".

KEYED NOTES

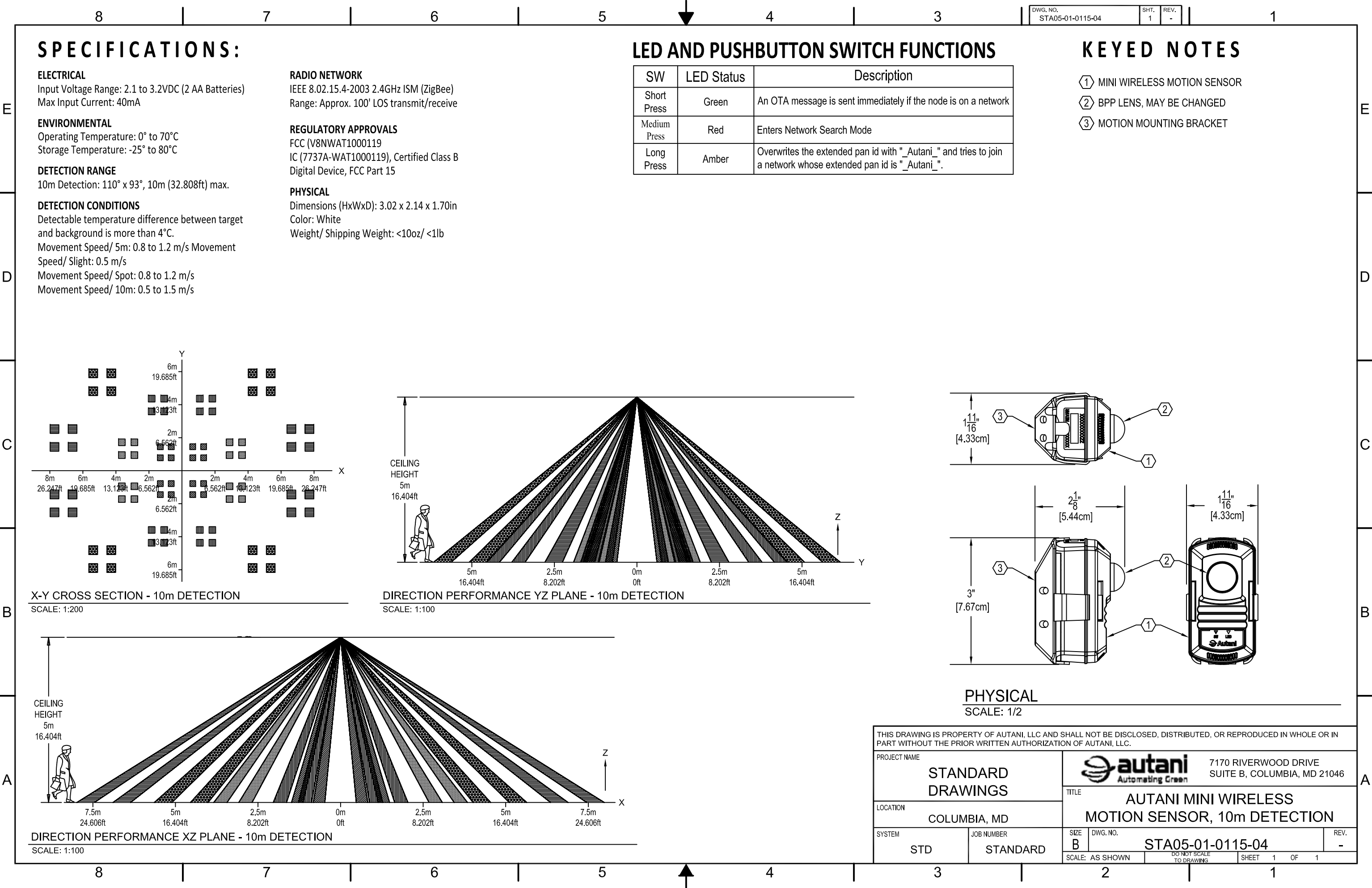
- ① MINI WIRELESS MOTION SENSOR
- ② BPP LENS, MAY BE CHANGED
- ③ MOTION MOUNTING BRACKET

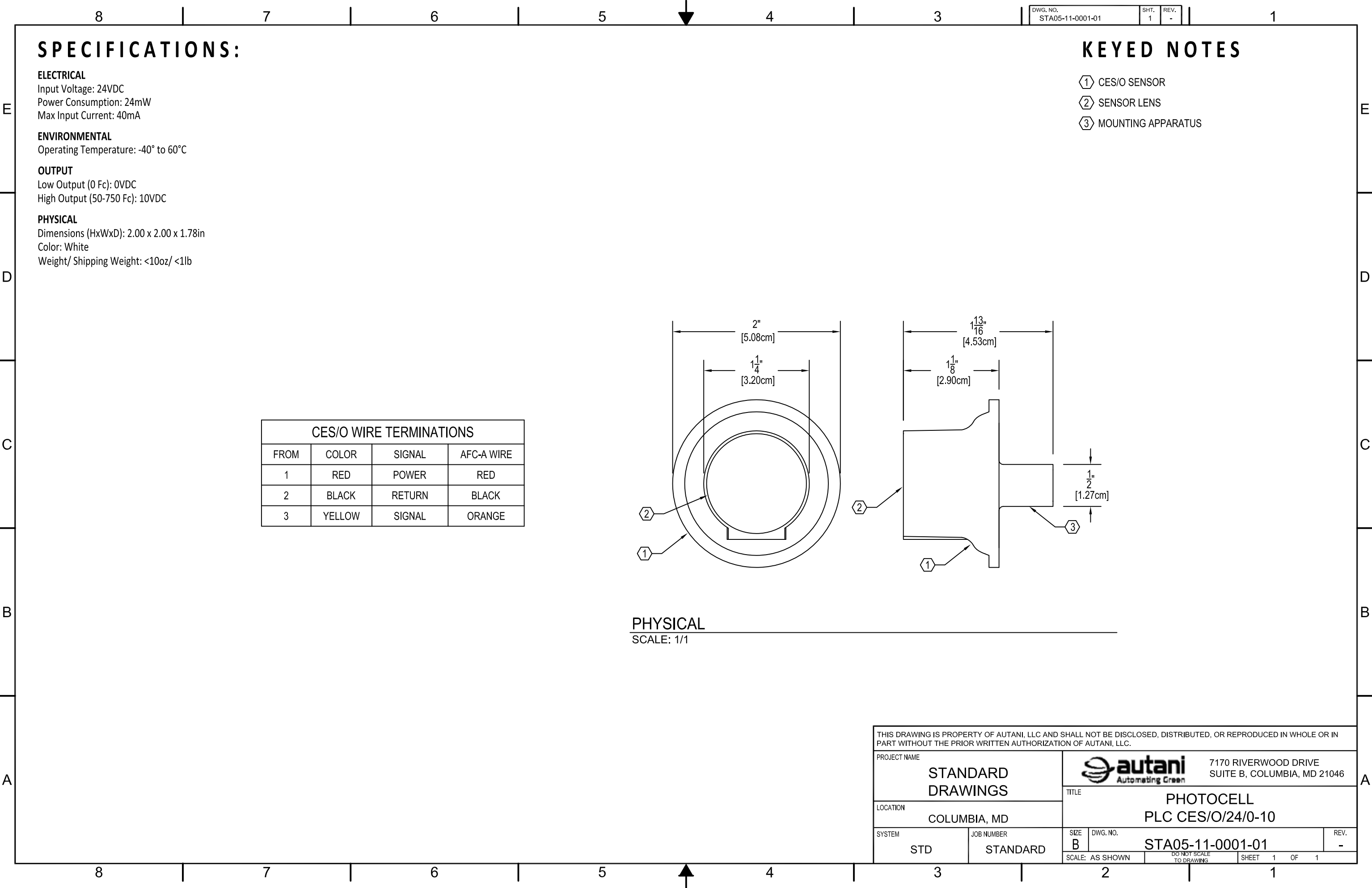


PHYSICAL

SCALE: 1/2

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.				
PROJECT NAME STANDARD DRAWINGS		 7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046		
		TITLE AUTANI MINI WIRELESS MOTION SENSOR, SPOT DETECTION		
LOCATION COLUMBIA, MD				
SYSTEM STD	JOB NUMBER STANDARD	SIZE B	DWG. NO. STA05-01-0115-03	REV -
		SCALE: AS SHOWN	DO NOT SCALE TO DRAWING	SHEET 1 OF 1





SPECIFICATIONS:

ELECTRICAL

Input Voltage: 24VDC
Power Consumption: 24mW
Max Input Current: 40mA

ENVIRONMENTAL

Operating Temperature: -40° to 60°C

OUTPUT

Low Output (0 Fc): 0VDC
High Output (50-750 Fc): 10VDC

PHYSICAL

Dimensions (HxWxD): 2.00 x 2.00 x 1.78in
Color: White
Weight/ Shipping Weight: <10oz/ <1lb

CES/O WIRE TERMINATIONS			
FROM	COLOR	SIGNAL	AFC-A WIRE
1	RED	POWER	RED
2	BLACK	RETURN	BLACK
3	YELLOW	SIGNAL	ORANGE

KEYED NOTES

- ① CES/O SENSOR
- ② SENSOR LENS
- ③ MOUNTING APPARATUS

PHYSICAL

SCALE: 1/1

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.						
PROJECT NAME STANDARD DRAWINGS				7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046		
LOCATION COLUMBIA, MD		TITLE PHOTOCELL PLC CES/O/24/0-10				
SYSTEM STD	JOB NUMBER STANDARD	SIZE B	DWG. NO. STA05-11-0001-01			REV. -
		SCALE: AS SHOWN	DO NOT SCALE TO DRAWING		SHEET 1 OF 1	

SPECIFICATIONS:

ELECTRICAL

Contact Rating: 10VA
Contact Type: Form A, N.O.
Max Carry Current: 1.0 Amp
Max Switching Current: 0.3 Amp
Breakdown Voltage: 200VDC

MECHANICAL

Operating Gap: 1"
Mounting Method: Screw in or self-adhesive

ENVIRONMENTAL

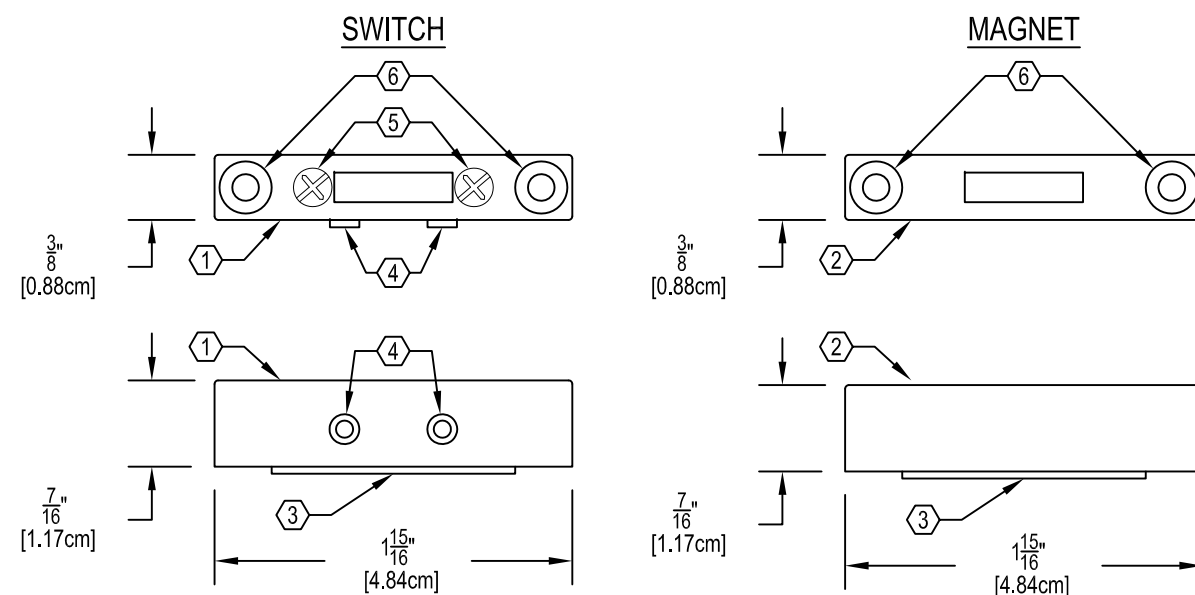
Operating Temperature: 32°F to 120°F

PHYSICAL

Dimensions (HxWxD): 0.45 x 1.91 x 0.35in
Color: White
Weight: 1oz

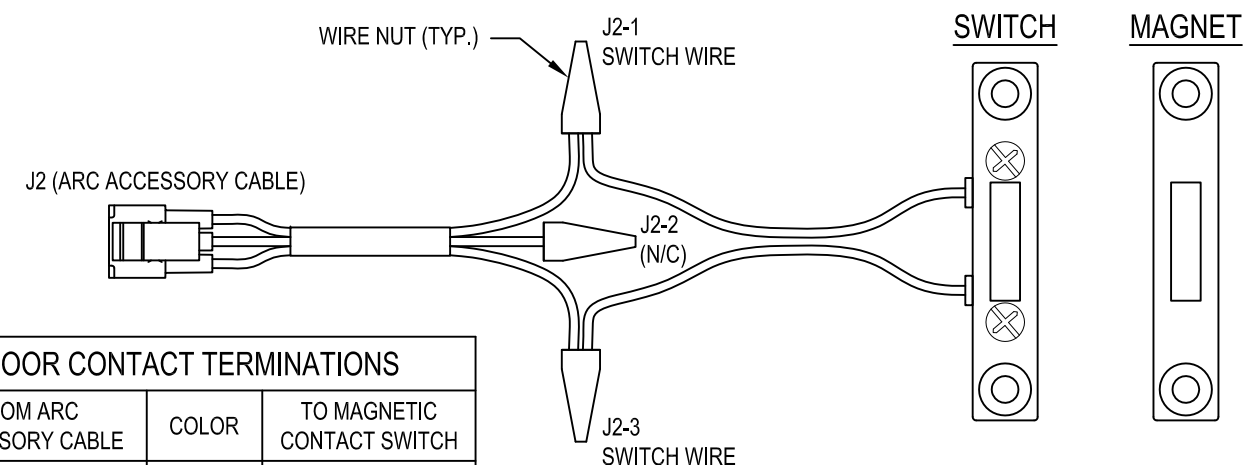
KEYED NOTES

- ① SURFACE MOUNT MAGNETIC CONTACT SWITCH
- ② SURFACE MOUNT MAGNET
- ③ 3M TAPE FOR MOUNTING TO DOOR OR WINDOW SURFACE
- ④ WIRE CONNECTION PORTS, USE AWG #22 WIRE
- ⑤ CONNECTION SCREWS
- ⑥ SNAP-ON COVER RECEPTACLES



PHYSICAL

SCALE: 1/1



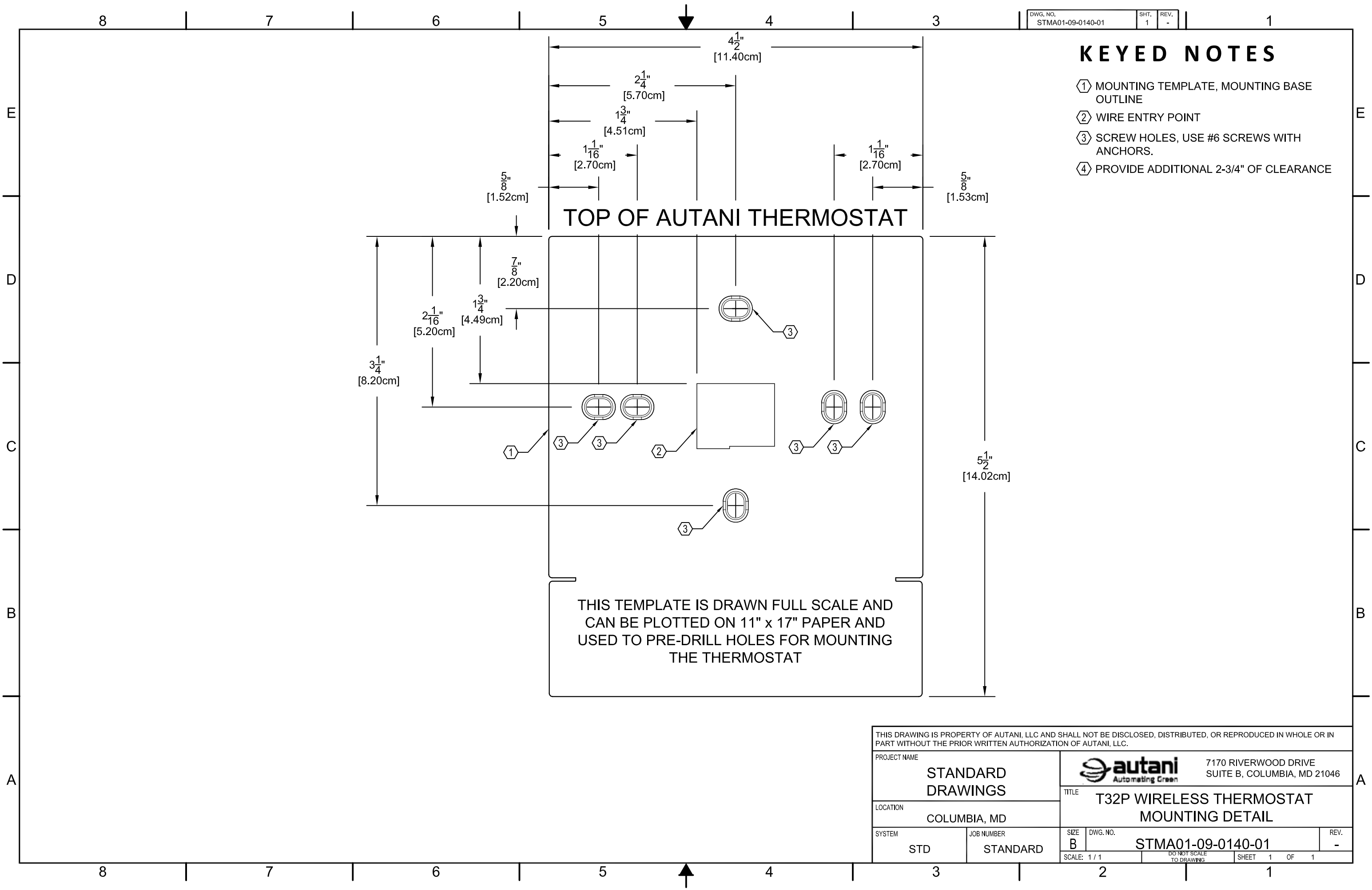
DOOR CONTACT TERMINATIONS		
FROM ARC ACCESSORY CABLE	COLOR	TO MAGNETIC CONTACT SWITCH
J2-1	BLACK	*SWITCH HOLE
J2-2	RED	N/C
J2-3	WHITE	*SWITCH HOLE

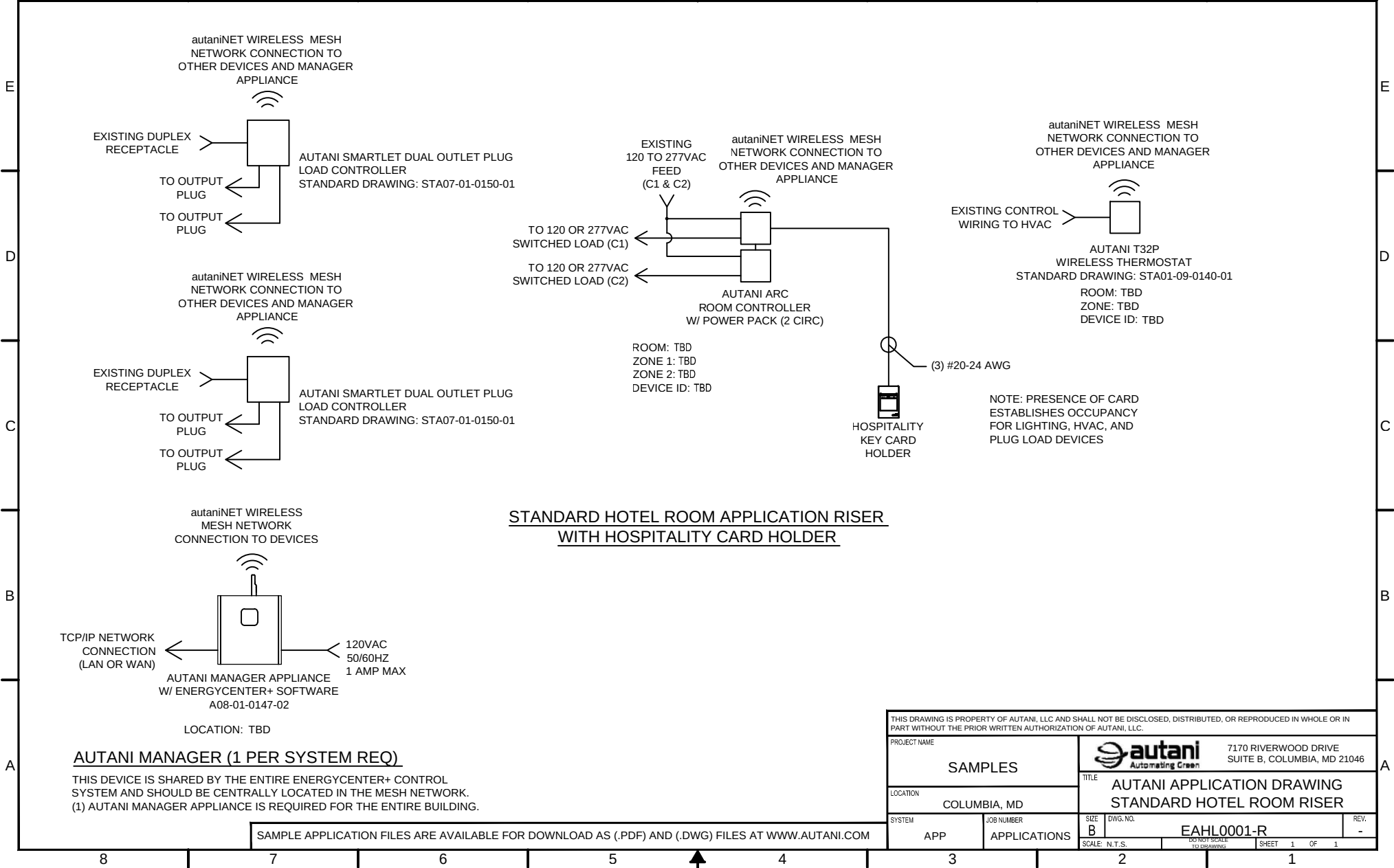
*SWITCH IS NOT SENSITIVE TO POLARITY

DOOR CONTACT TERMINATION DETAIL

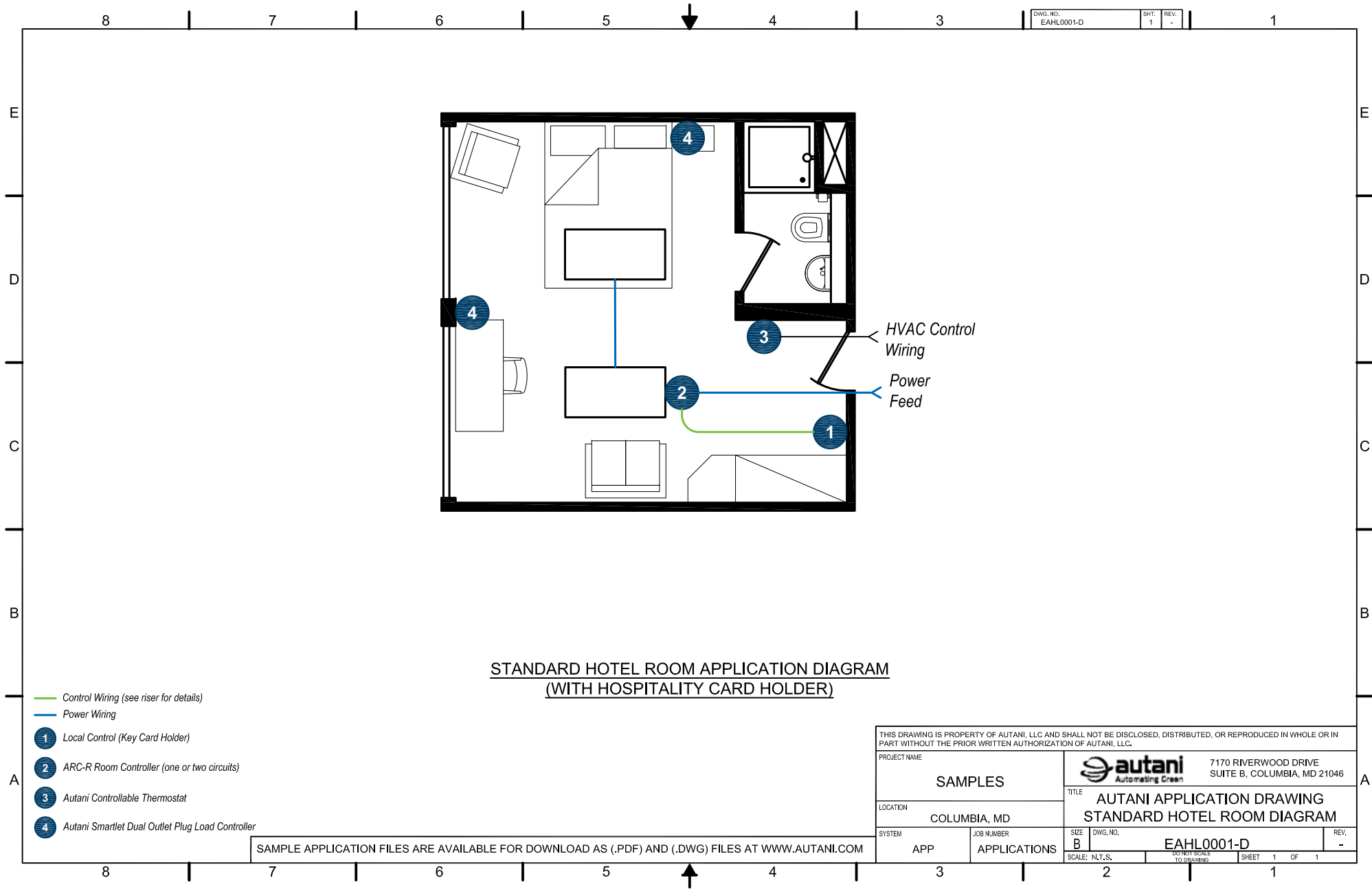
SCALE: N.T.S.

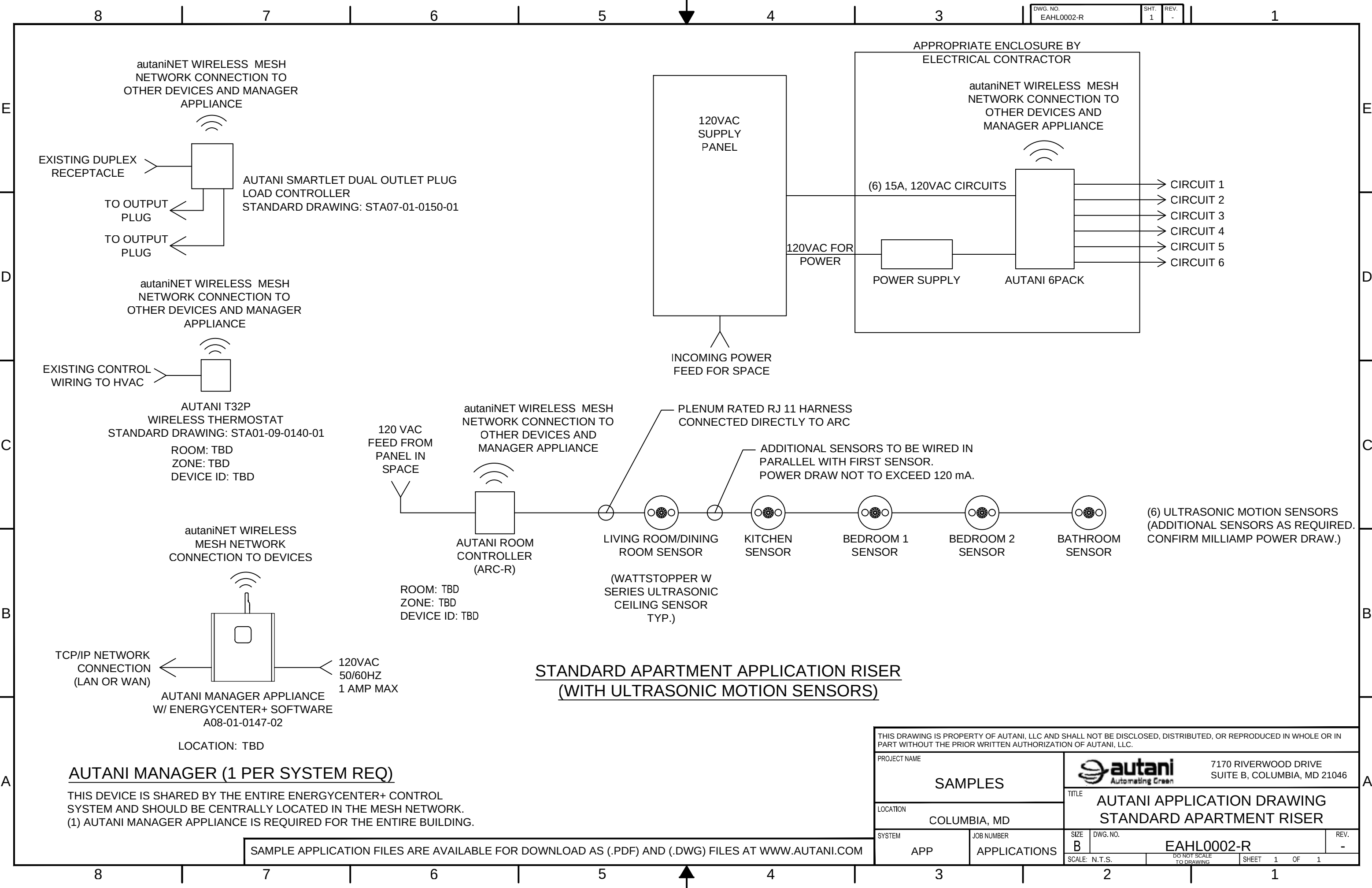
THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.									
PROJECT NAME STANDARD DRAWINGS					7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046				
LOCATION COLUMBIA, MD			TITLE AUTANI CONTACT SENSOR						
SYSTEM STD		JOB NUMBER STANDARD	SIZE B	DWG. NO. STA05-13-0001-01					REV. -
			SCALE: AS SHOWN		DO NOT SCALE TO DRAWING.		SHEET 1 OF 1		

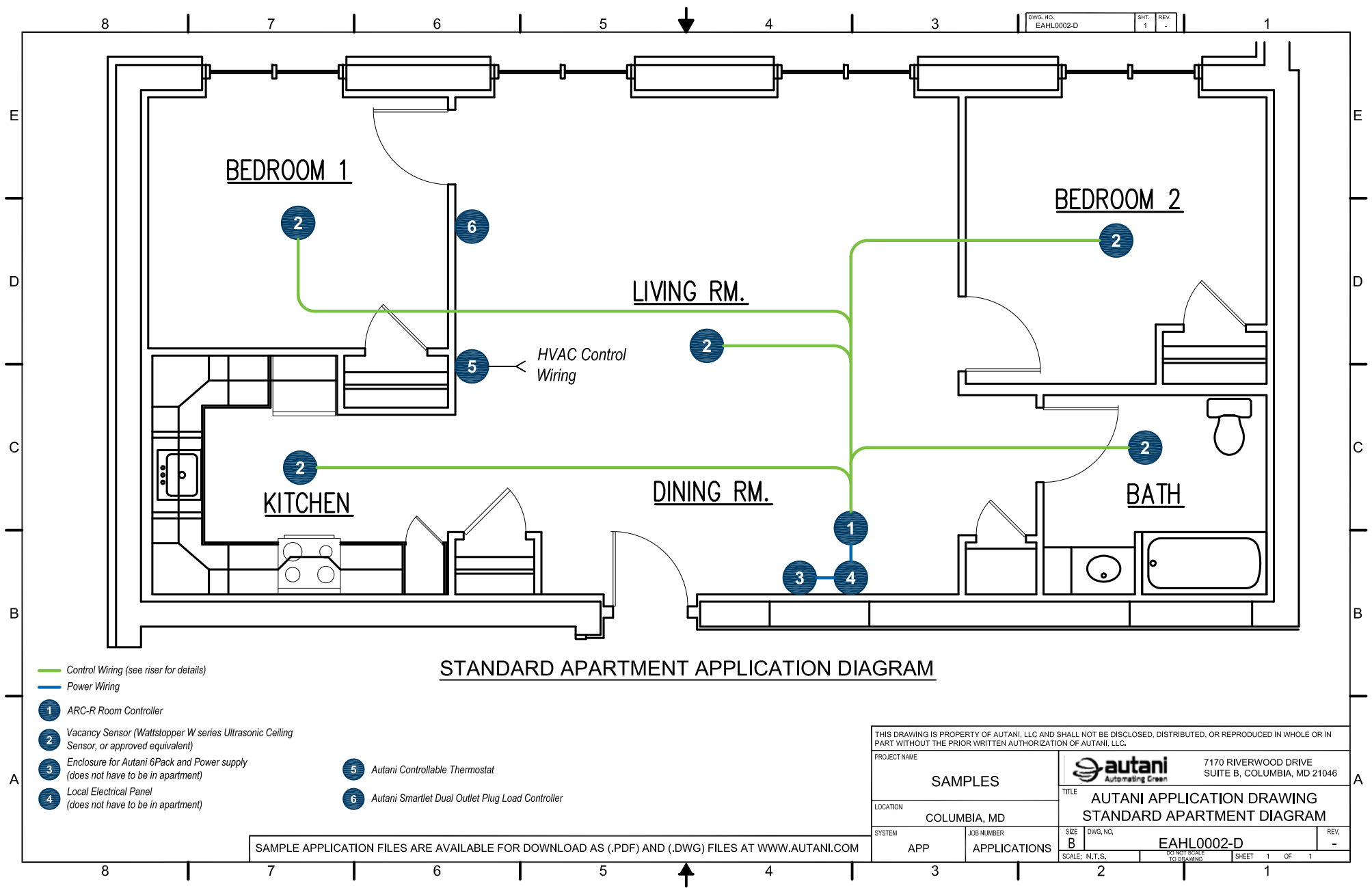




THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.			
PROJECT NAME SAMPLES		 7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046	
LOCATION COLUMBIA, MD		TITLE AUTANI APPLICATION DRAWING STANDARD HOTEL ROOM RISER	
SYSTEM APP	JOB NUMBER APPLICATIONS	SIZE B	DWG. NO. E AHL0001-R
SCALE: N.T.S.		DO NOT SCALE TO DRAWING	REV. -
SHEET 1 OF 1			

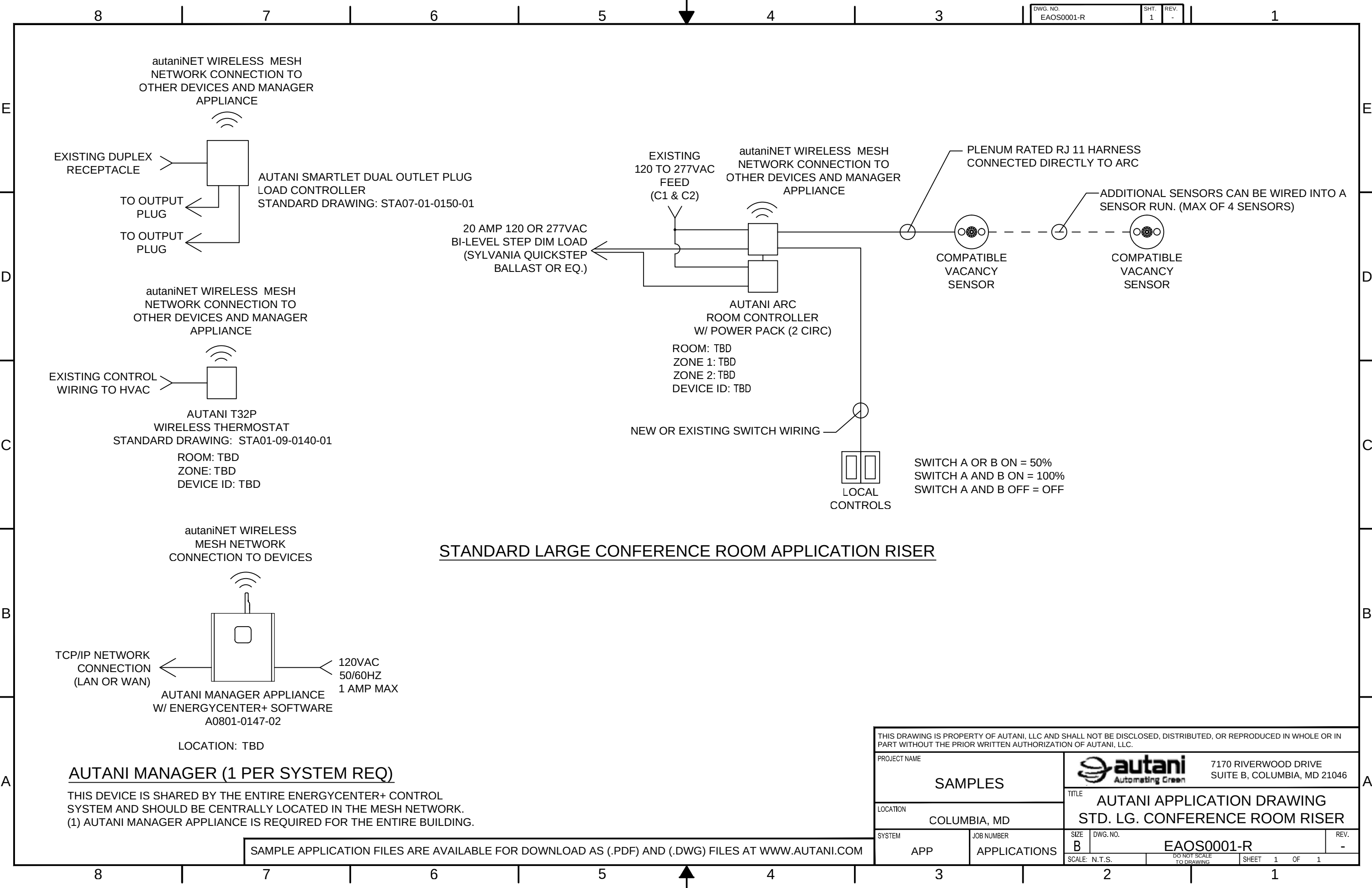


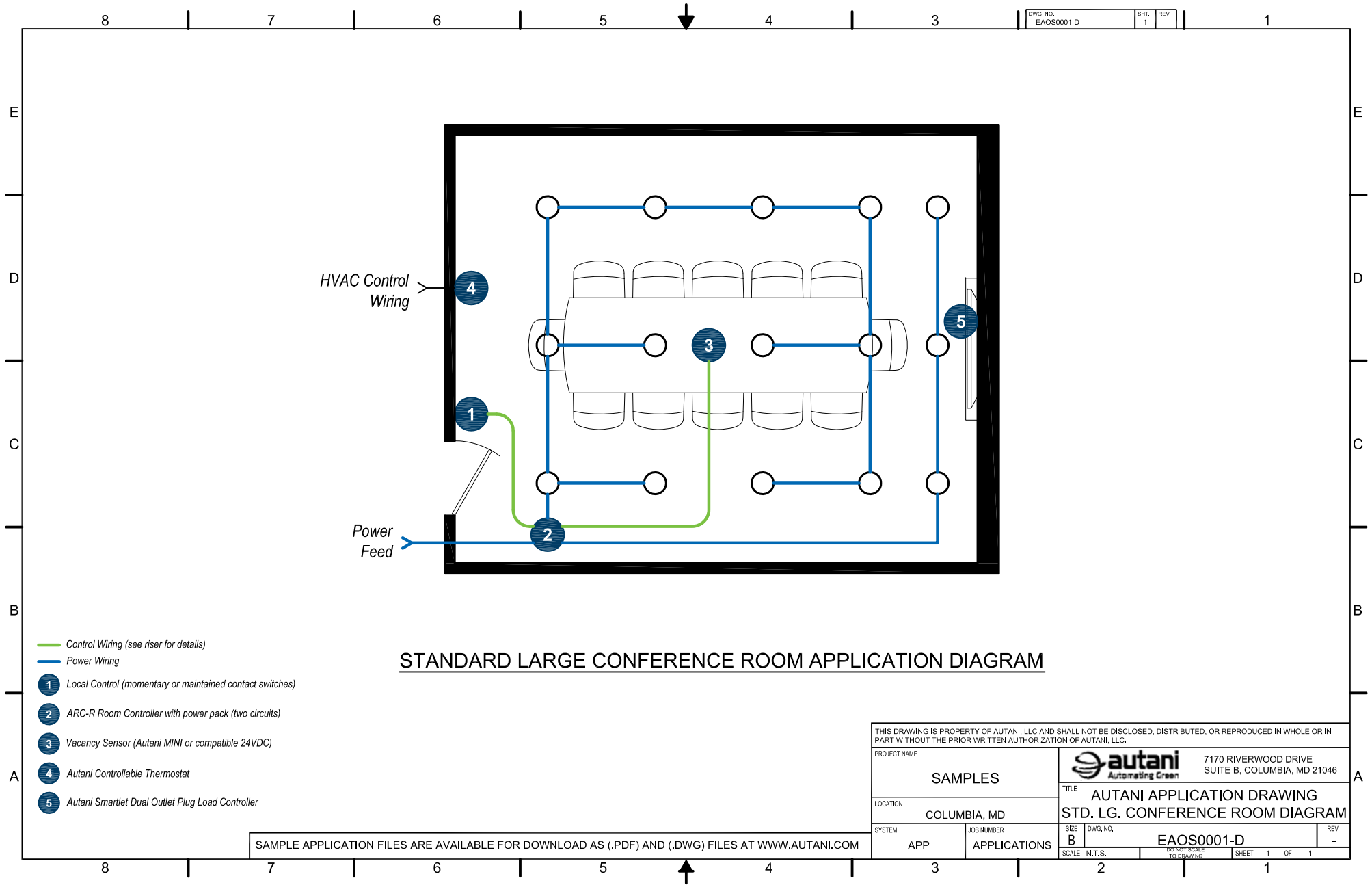




SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

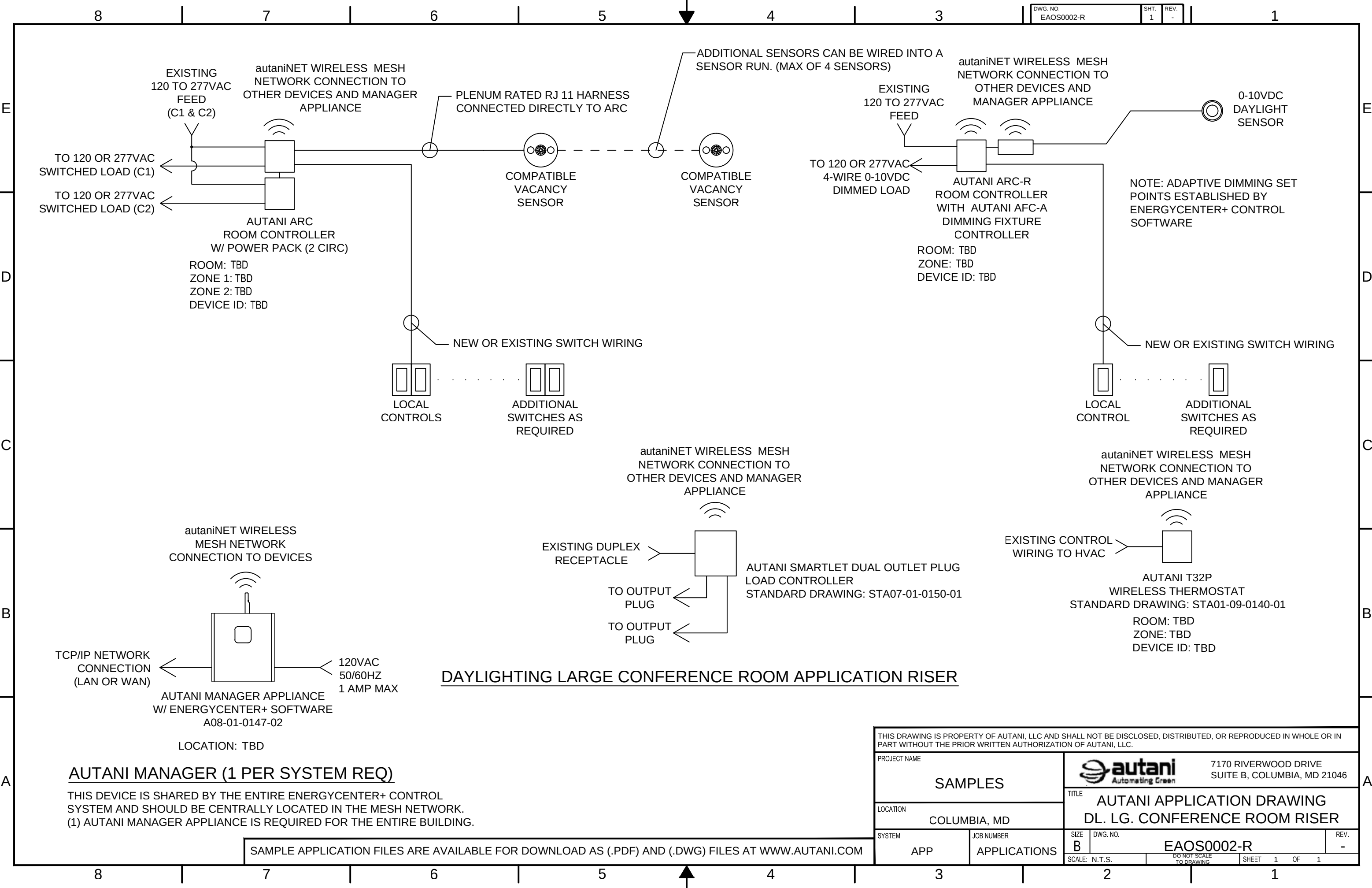
THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.			
PROJECT NAME		autani Automating Green	
LOCATION		7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046	
SYSTEM		TITLE	
APP		AUTANI APPLICATION DRAWING STANDARD APARTMENT DIAGRAM	
JOB NUMBER		SIZE	REV.
APPLICATIONS		B	-
SCALE: N.T.S.		DWG. NO.	EAHL0002-D
DO NOT SCALE TO DRAWING		SHEET	1 OF 1



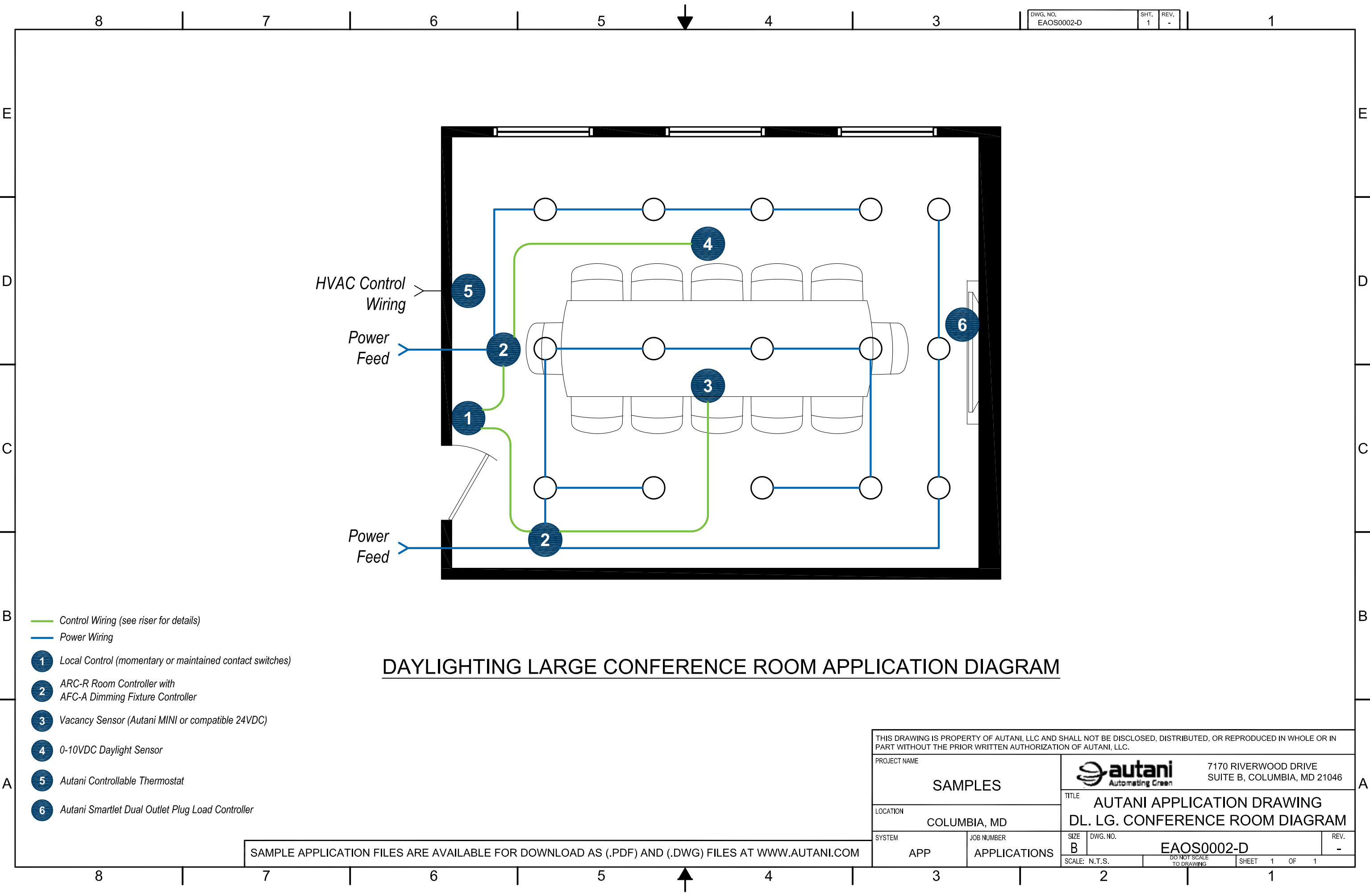


SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.				
PROJECT NAME				7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046
SAMPLES		TITLE		
LOCATION		AUTANI APPLICATION DRAWING		
COLUMBIA, MD		STD. LG. CONFERENCE ROOM DIAGRAM		
SYSTEM	JOB NUMBER	SIZE	DWG. NO.	REV.
APP	APPLICATIONS	EAOS0001-D		-
		SCALE: N.T.S.	DO NOT SCALE TO DIMENSIONS	SHEET 1 OF 1



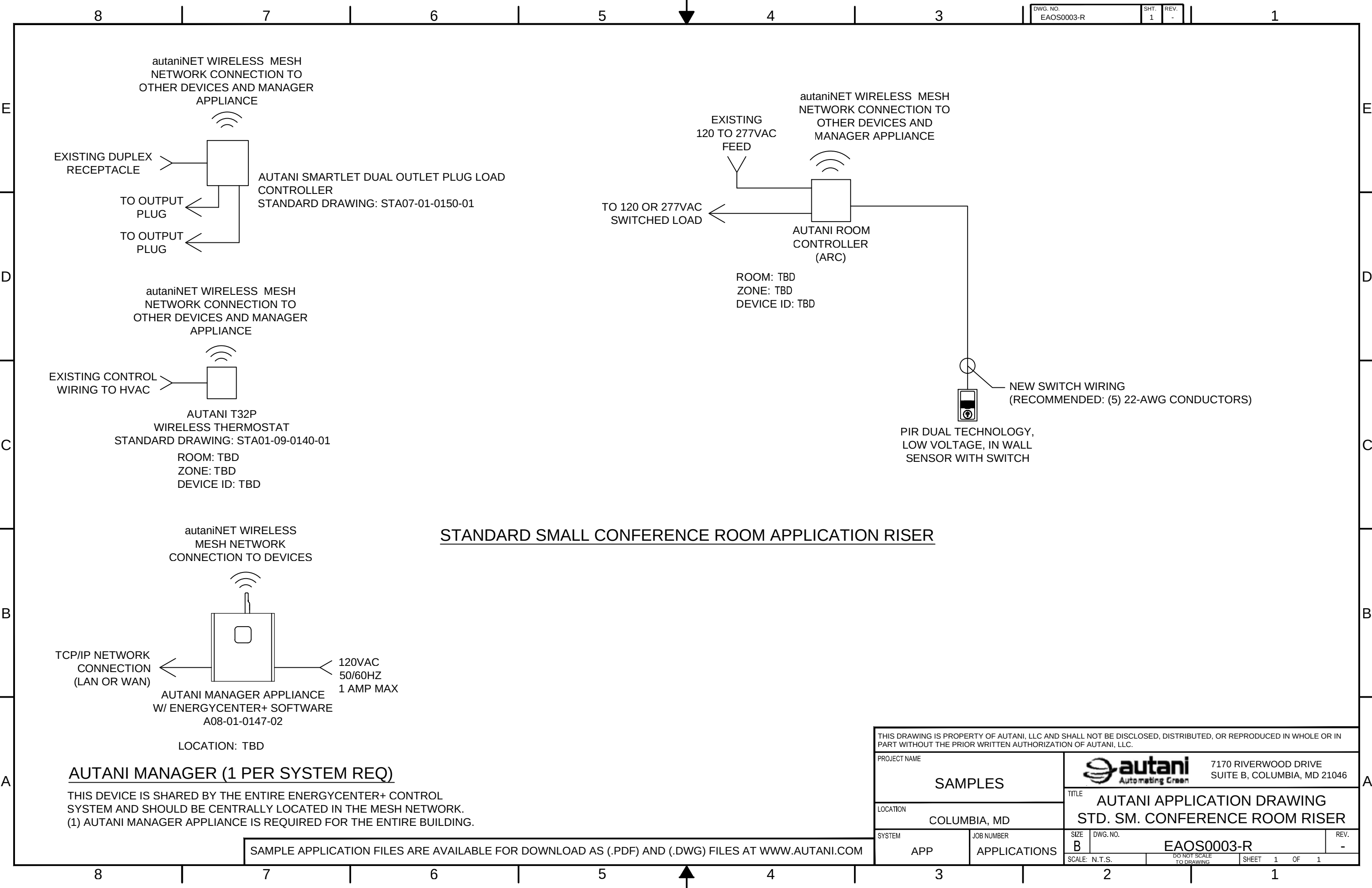
THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.					
PROJECT NAME			7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046		
SAMPLES			autani Automating Green		
LOCATION			TITLE		
COLUMBIA, MD			AUTANI APPLICATION DRAWING DL. LG. CONFERENCE ROOM RISER		
SYSTEM		JOB NUMBER		SIZE	DWG. NO.
APP		APPLICATIONS		B	EAO0002-R
SCALE: N.T.S.		DO NOT SCALE TO DRAWING		SHEET	1 OF 1

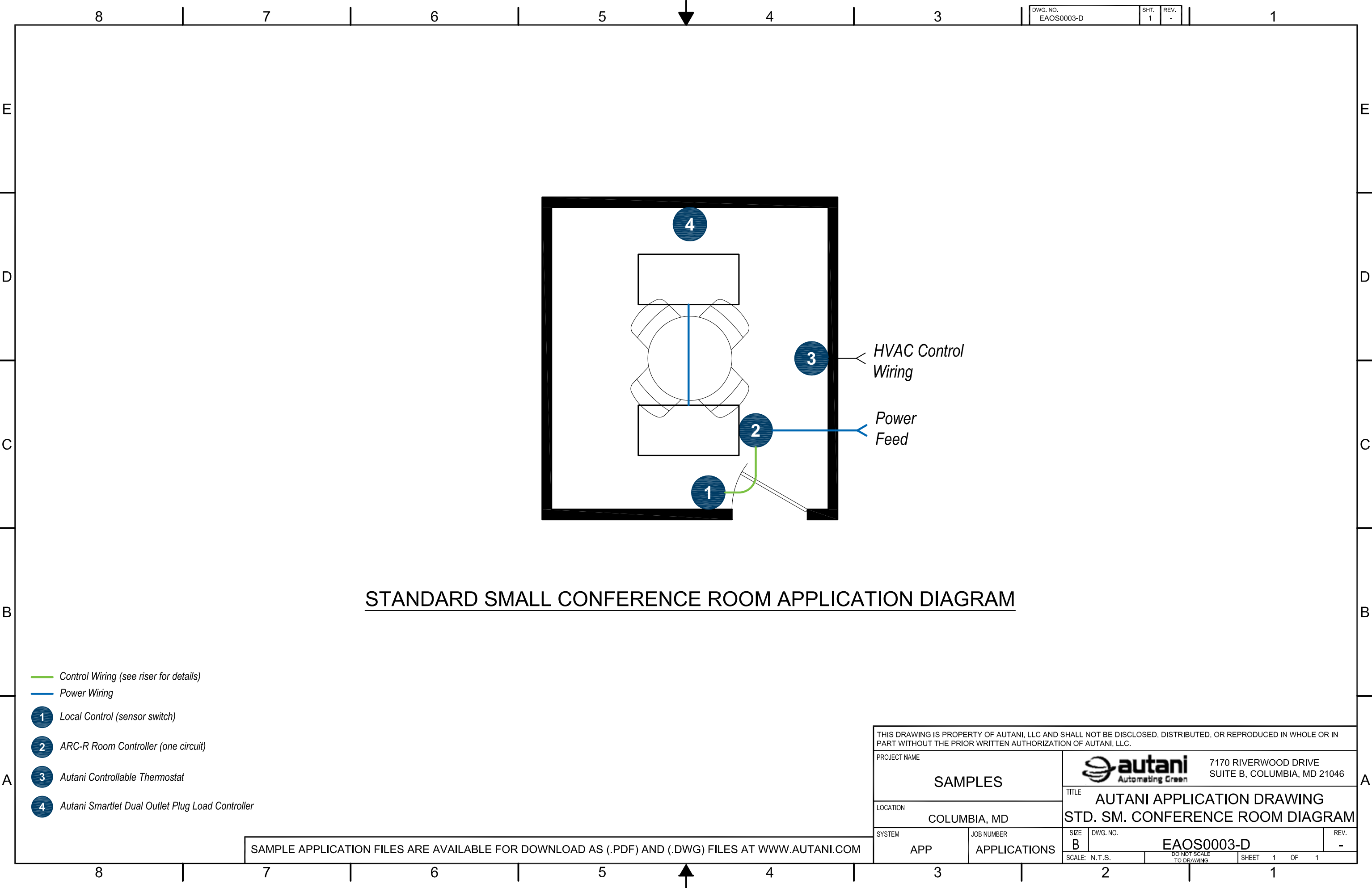


DAYLIGHTING LARGE CONFERENCE ROOM APPLICATION DIAGRAM

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.					
PROJECT NAME			7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046		
SAMPLES			TITLE		
COLUMBIA, MD			AUTANI APPLICATION DRAWING DL. LG. CONFERENCE ROOM DIAGRAM		
LOCATION		JOB NUMBER		SIZE	DWG. NO.
APP		APPLICATIONS		B	EAOS0002-D
SYSTEM		SCALE: N.T.S.		DO NOT SCALE TO DRAWING	
		SHEET 1 OF 1		REV. -	



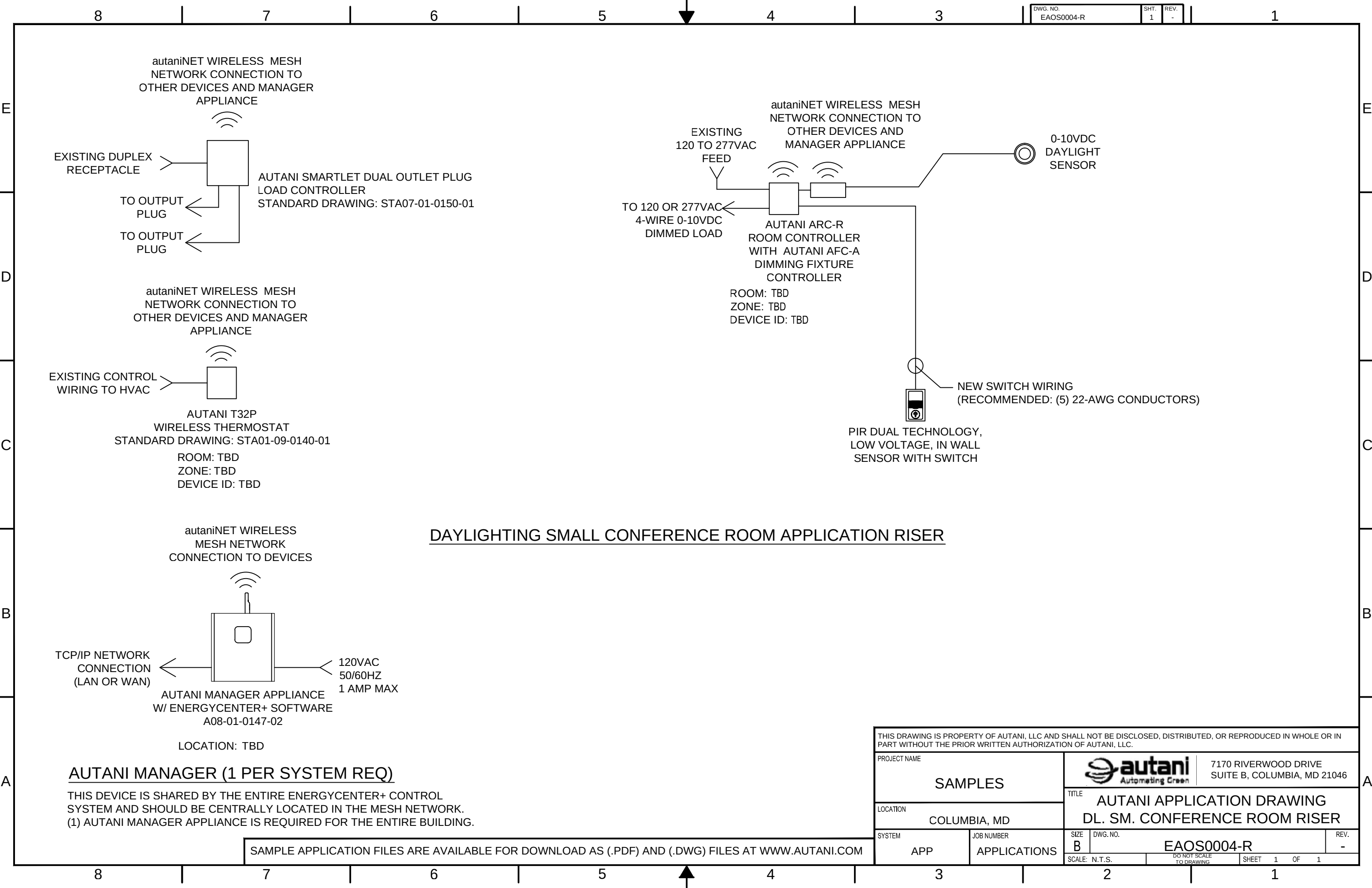


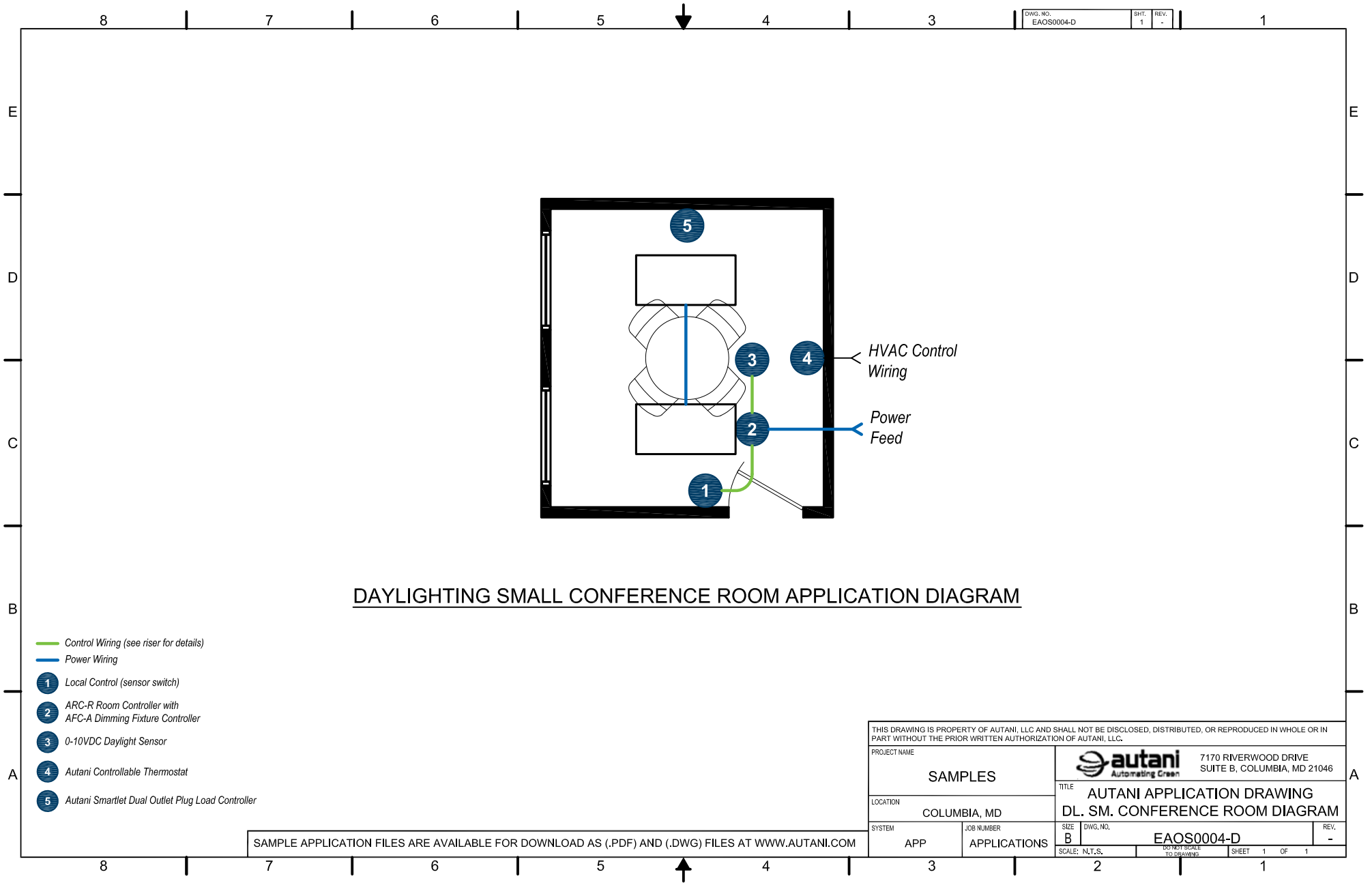
STANDARD SMALL CONFERENCE ROOM APPLICATION DIAGRAM

- Control Wiring (see riser for details)
- Power Wiring
- 1 Local Control (sensor switch)
- 2 ARC-R Room Controller (one circuit)
- 3 Autani Controllable Thermostat
- 4 Autani Smartlet Dual Outlet Plug Load Controller

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

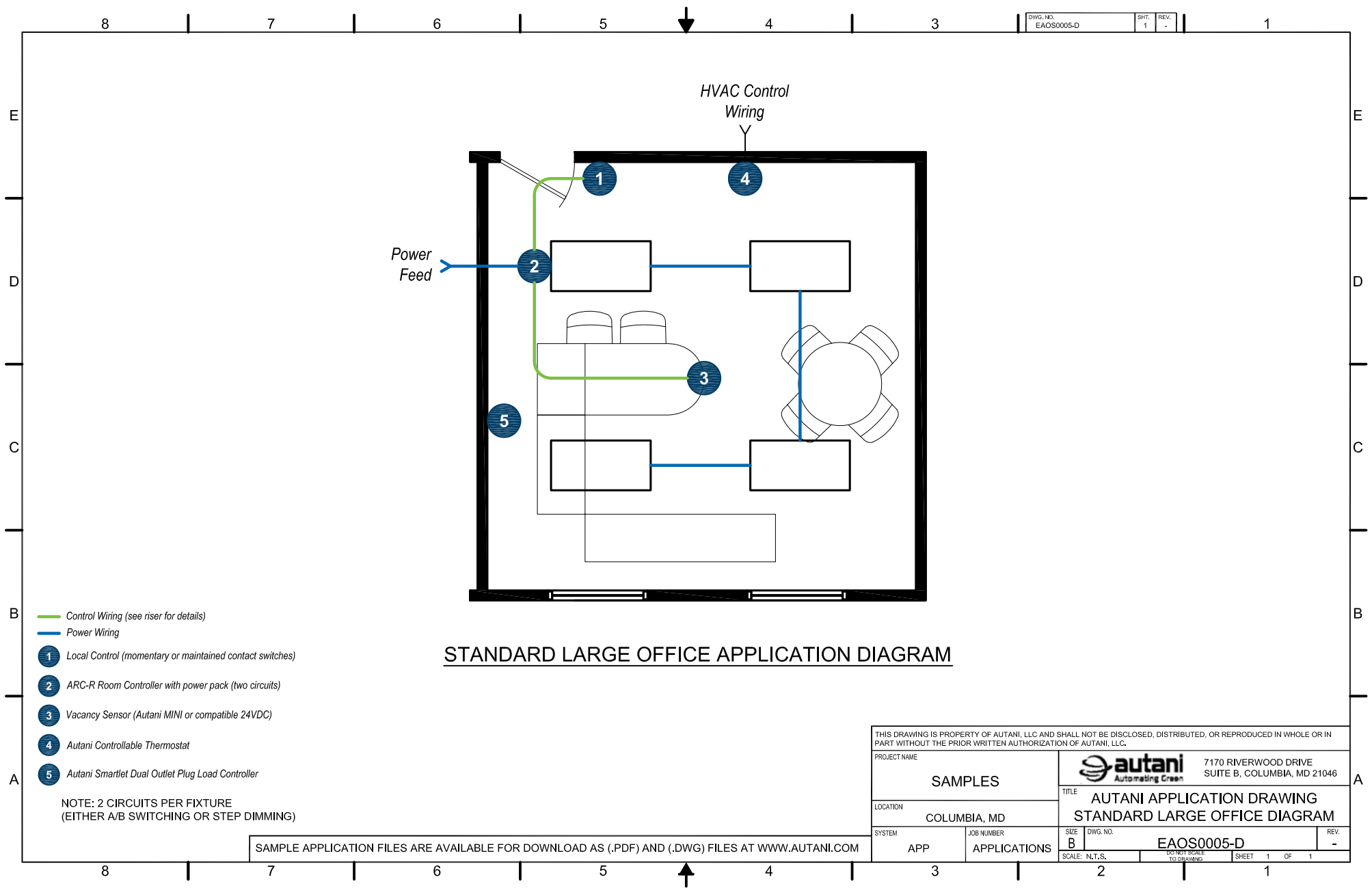
THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.									
PROJECT NAME					7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046				
SAMPLES					TITLE				
LOCATION					AUTANI APPLICATION DRAWING STD. SM. CONFERENCE ROOM DIAGRAM				
COLUMBIA, MD					SIZE	DWG. NO.	REV.		
SYSTEM		JOB NUMBER			B	EAOS0003-D	-		
APP		APPLICATIONS			SCALE: N.T.S.	DO NOT SCALE TO DRAWING	SHEET 1 OF 1		

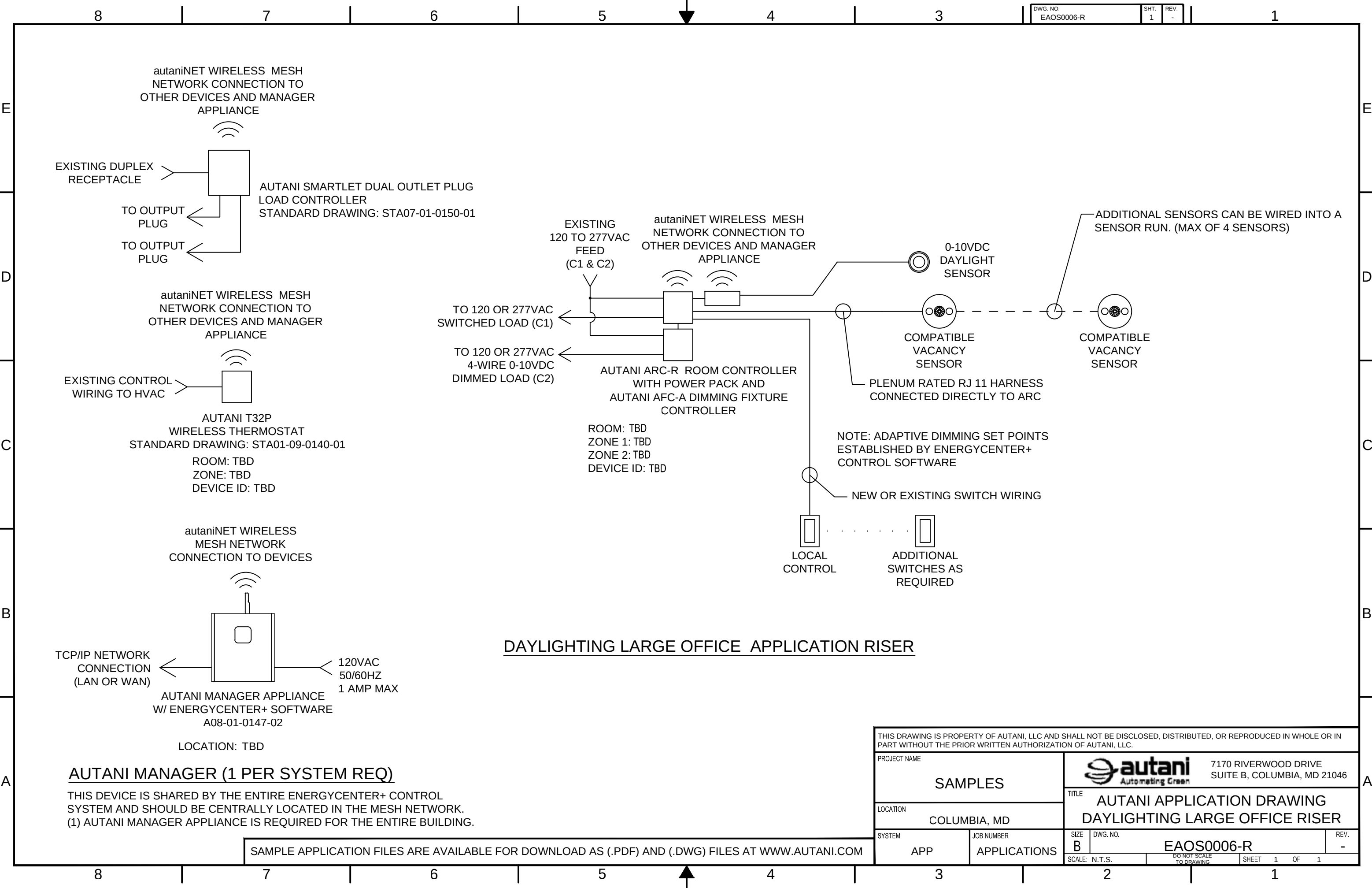


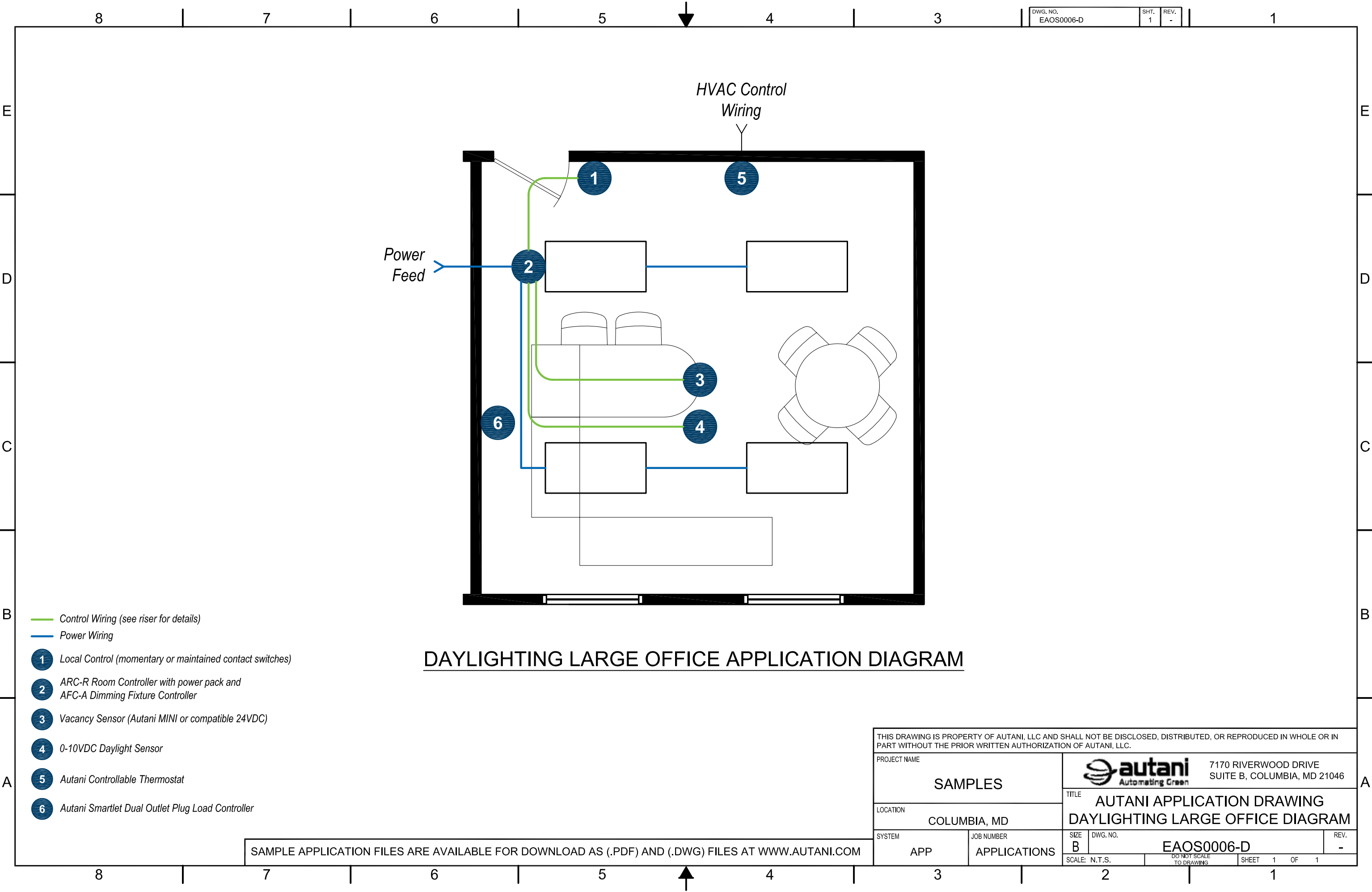


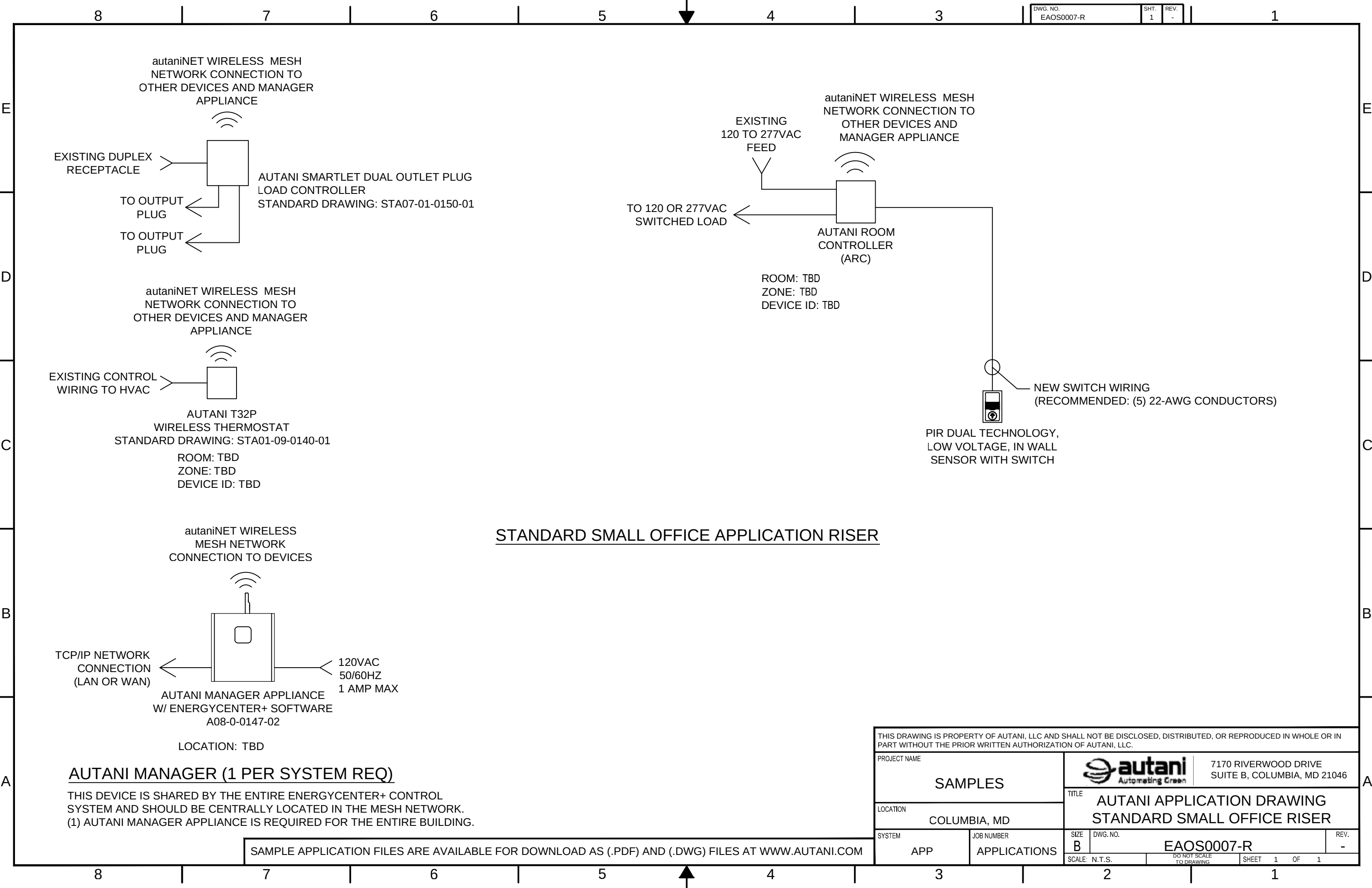
- Control Wiring (see riser for details)
- Power Wiring
- 1 Local Control (sensor switch)
- 2 ARC-R Room Controller with AFC-A Dimming Fixture Controller
- 3 0-10VDC Daylight Sensor
- 4 Autani Controllable Thermostat
- 5 Autani Smartlet Dual Outlet Plug Load Controller

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM









8

7

6

5

4

3

DWG. NO.
EAOS0007-DSHT.
1REV.
-

1

E

D

C

B

A

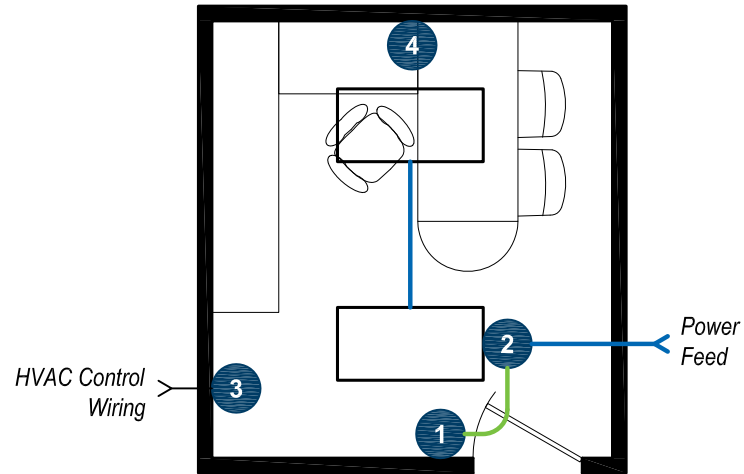
E

D

C

B

A



STANDARD SMALL OFFICE APPLICATION DIAGRAM

Control Wiring (see riser for details)

Power Wiring

1 Local Control (sensor switch)

2 ARC-R Room Controller (one circuit)

3 Autani Controllable Thermostat

4 Autani Smartlet Dual Outlet Plug Load Controller

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.			
PROJECT NAME		 7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046	
LOCATION		TITLE	
COLUMBIA, MD		AUTANI APPLICATION DRAWING STANDARD SMALL OFFICE DIAGRAM	
SYSTEM	JOB NUMBER	SIZE	DWG. NO.
APP	APPLICATIONS	B	EAOS0007-D
SCALE: N.T.S.		SHEET 1 OF 1	

8

7

6

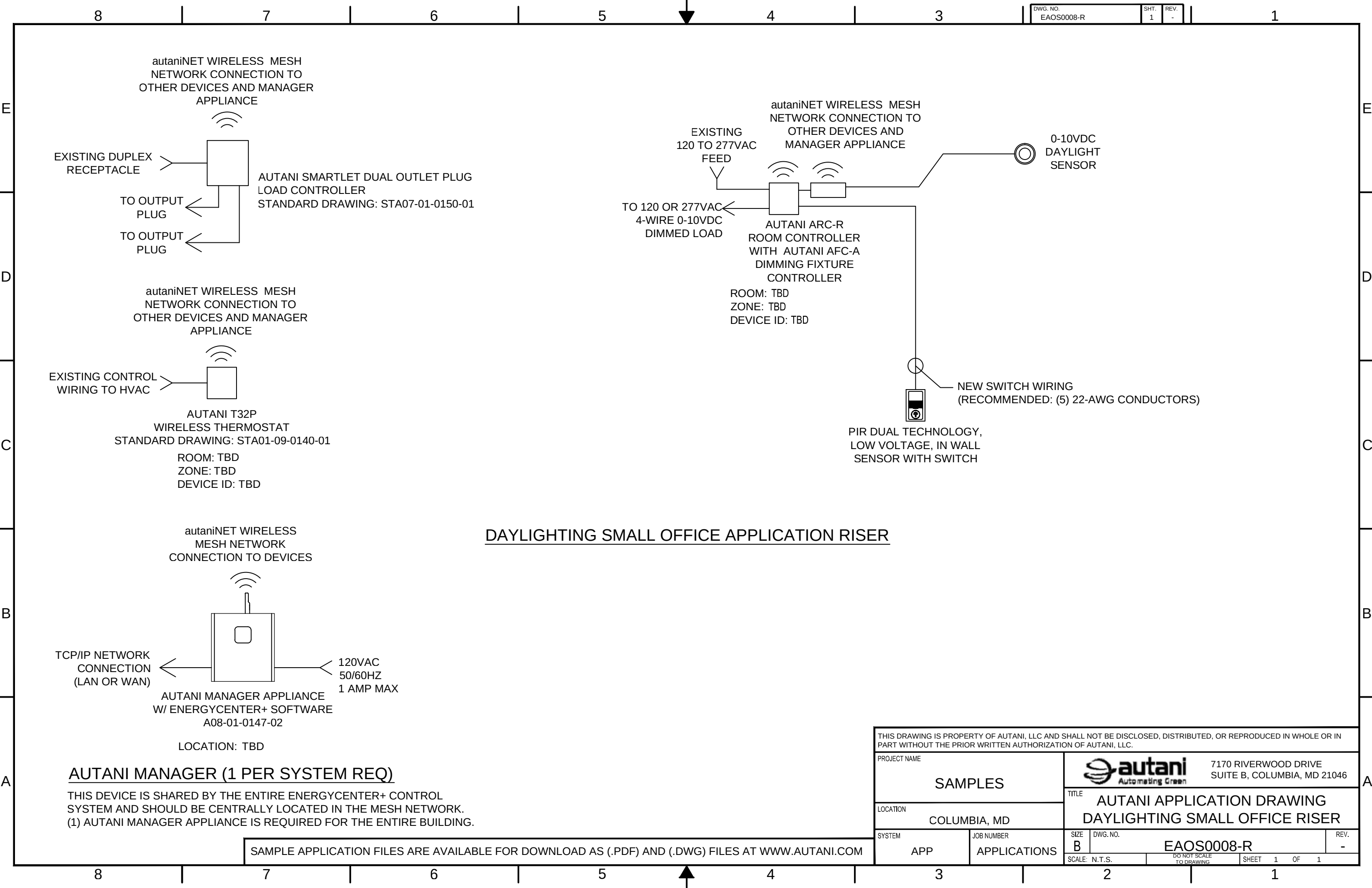
5

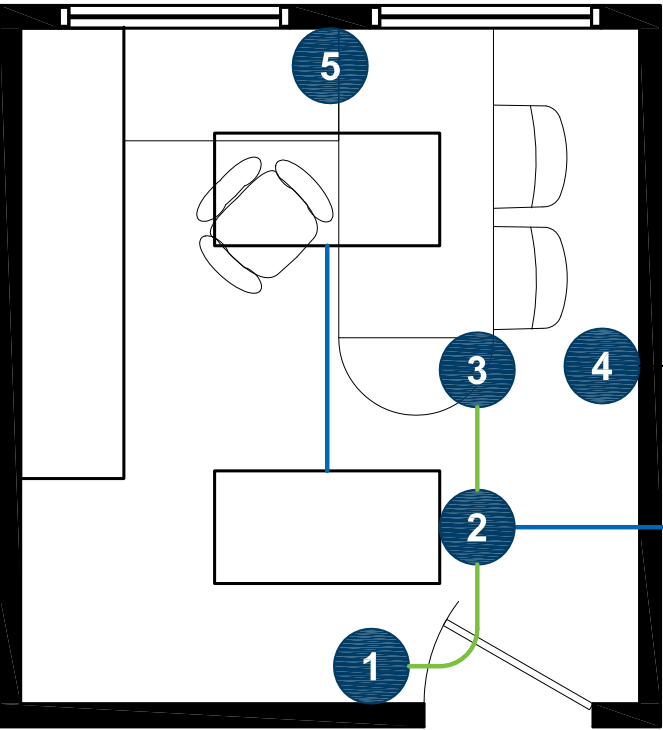
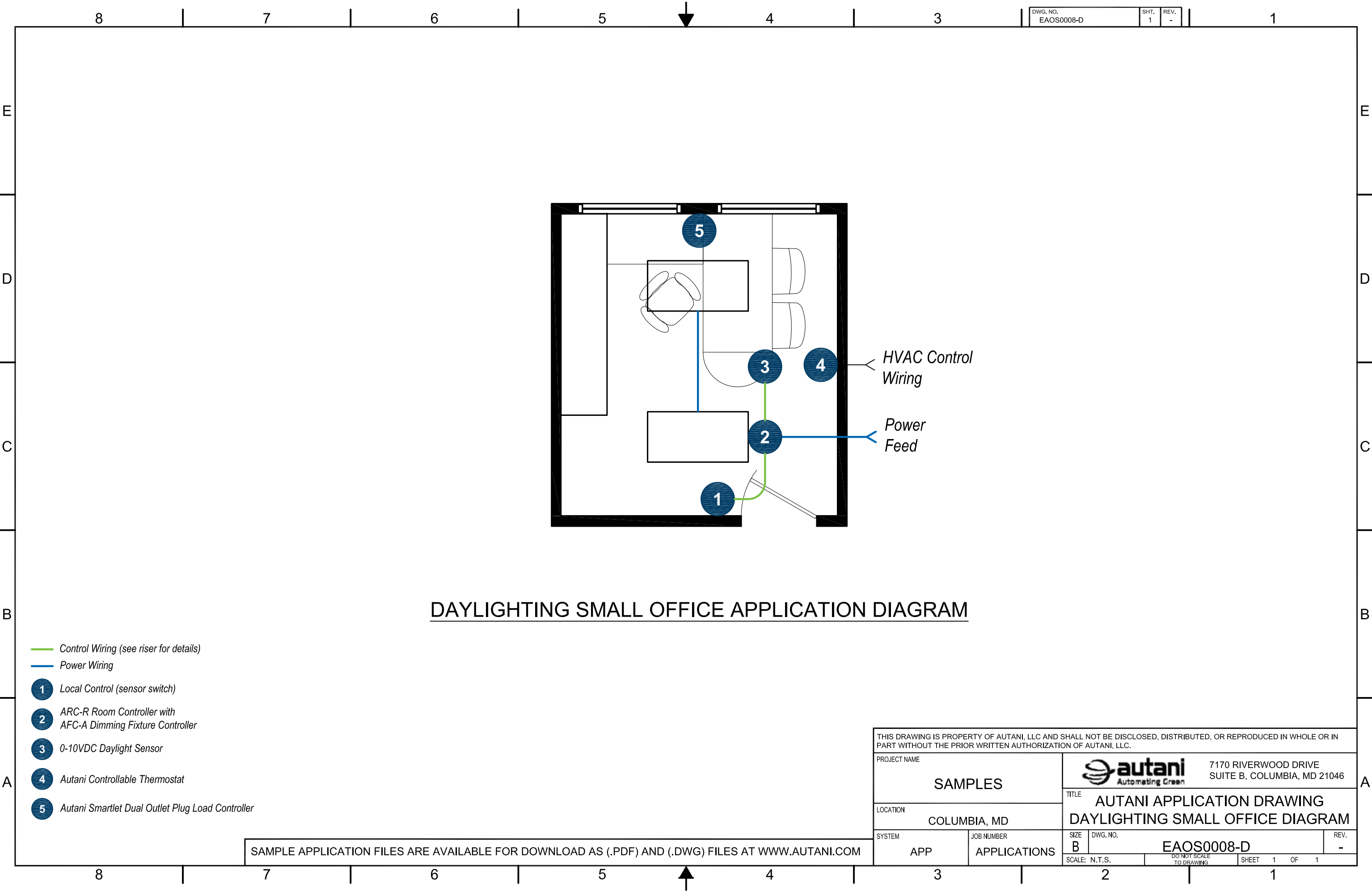
4

3

2

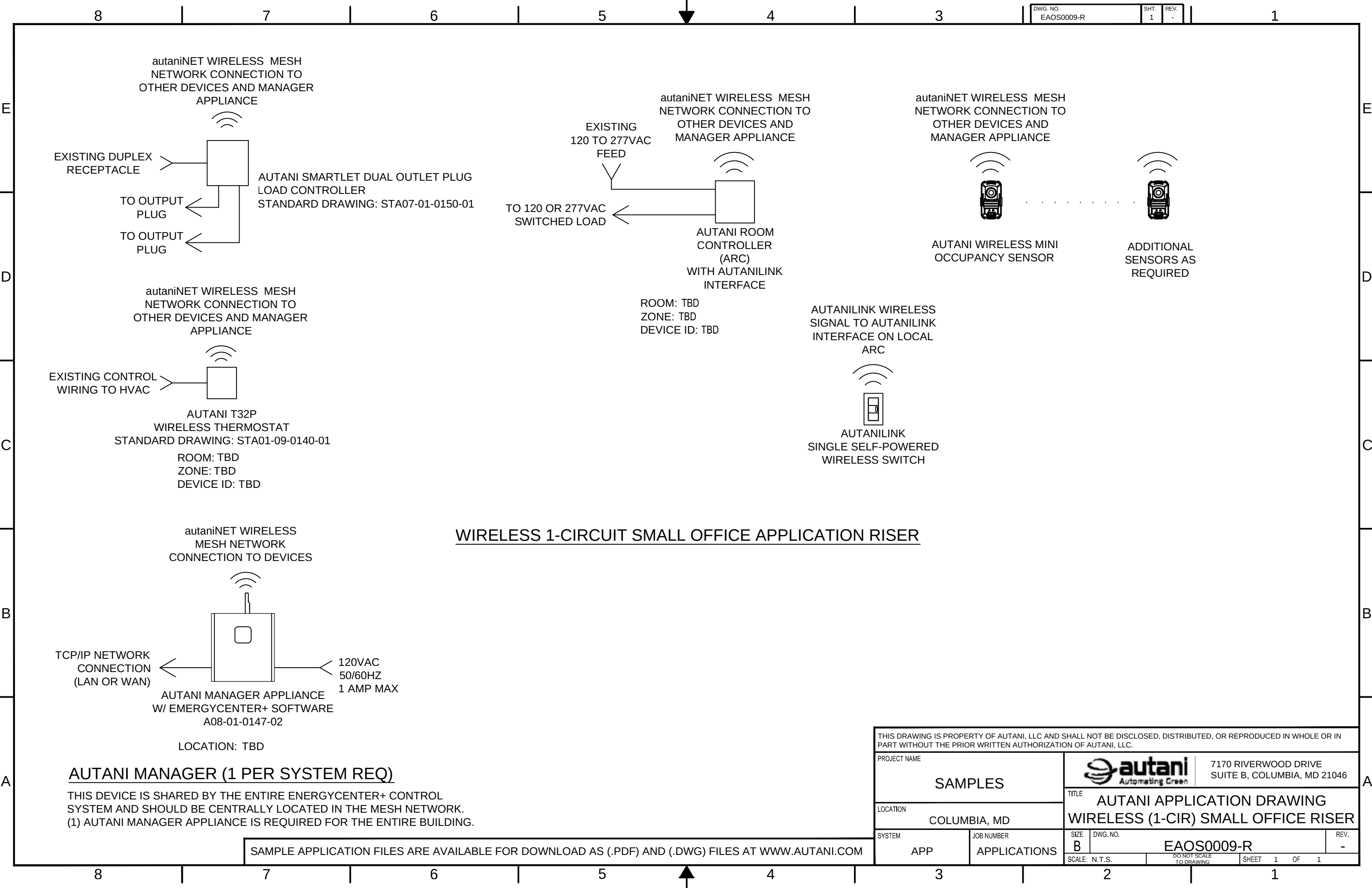
1





HVAC Control
Wiring

Power
Feed



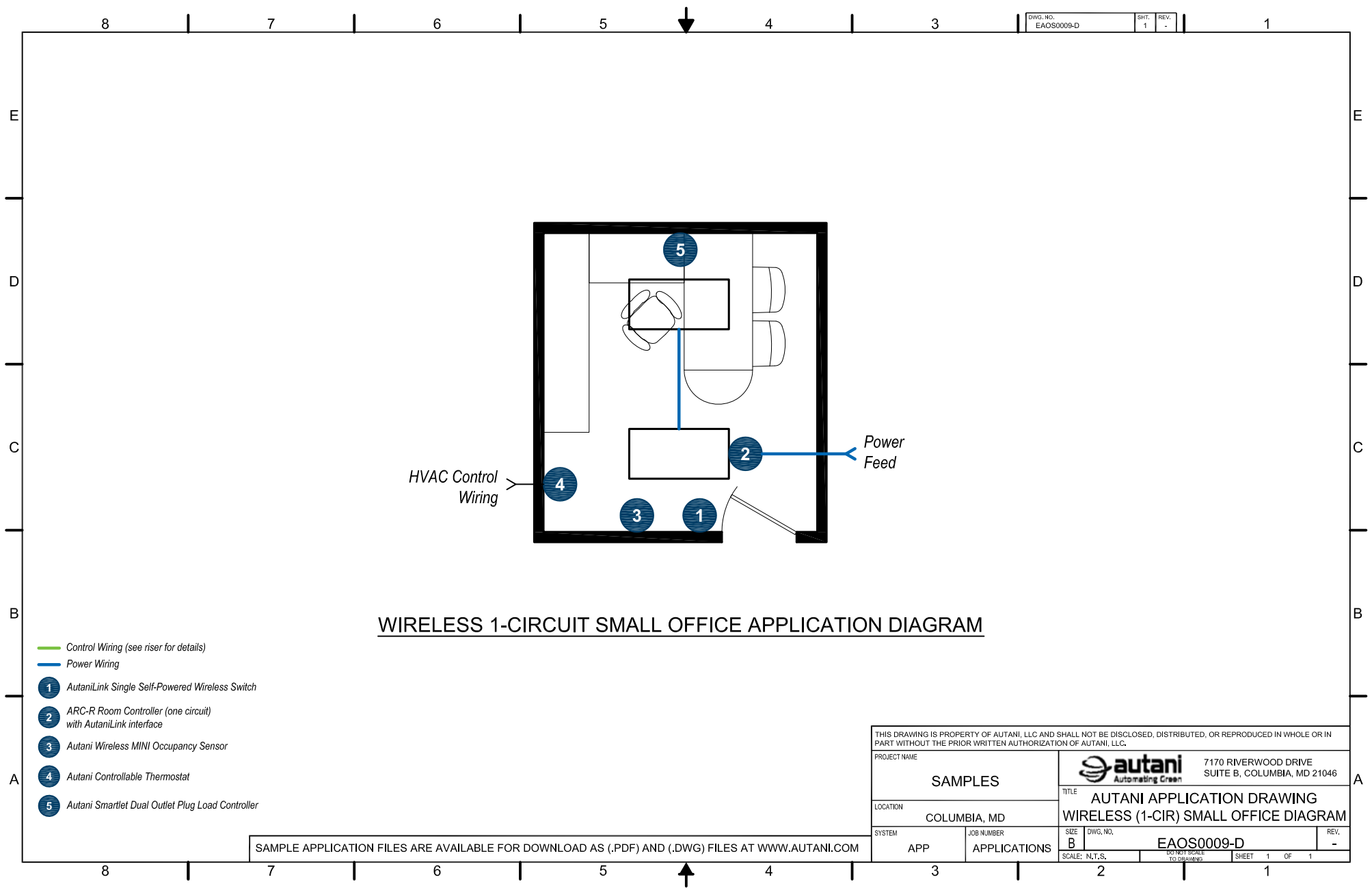
WIRELESS 1-CIRCUIT SMALL OFFICE APPLICATION RISER

AUTANI MANAGER (1 PER SYSTEM REQ)

THIS DEVICE IS SHARED BY THE ENTIRE EMERGYCENTER+ CONTROL SYSTEM AND SHOULD BE CENTRALLY LOCATED IN THE MESH NETWORK.
(1) AUTANI MANAGER APPLIANCE IS REQUIRED FOR THE ENTIRE BUILDING.

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.						
PROJECT NAME SAMPLES				7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046		
LOCATION COLUMBIA, MD		TITLE AUTANI APPLICATION DRAWING WIRELESS (1-CIR) SMALL OFFICE RISER				
SYSTEM APP	JOB NUMBER APPLICATIONS	SIZE B	DWG. NO. EAOS0009-R			REV. -
		SCALE: N.T.S.		DO NOT SCALE TO DRAWING	SHEET 1 OF 1	

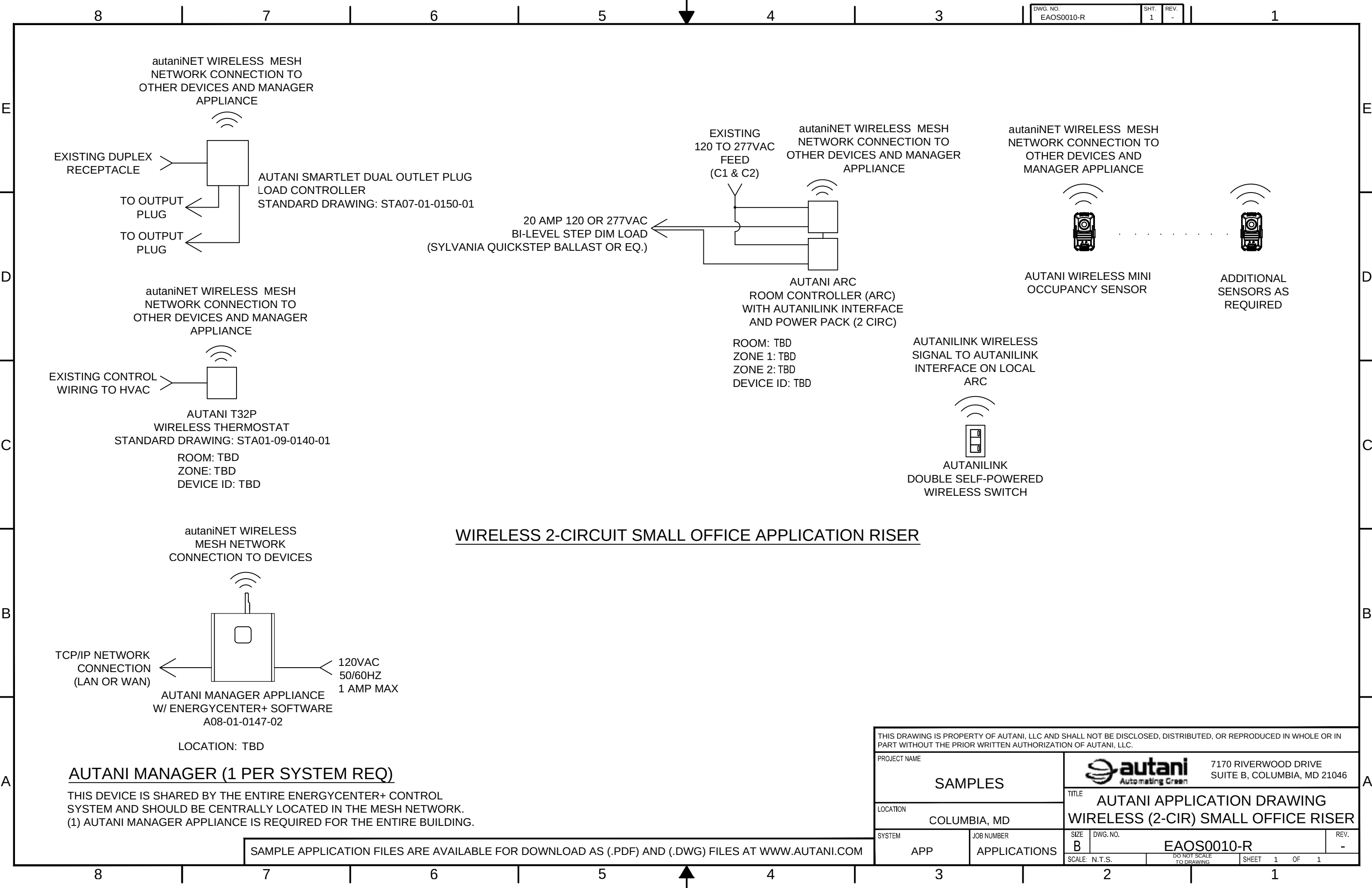


WIRELESS 1-CIRCUIT SMALL OFFICE APPLICATION DIAGRAM

- Control Wiring (see riser for details)
- Power Wiring
- 1 AutaniLink Single Self-Powered Wireless Switch
- 2 ARC-R Room Controller (one circuit) with AutaniLink interface
- 3 Autani Wireless MINI Occupancy Sensor
- 4 Autani Controllable Thermostat
- 5 Autani Smartlet Dual Outlet Plug Load Controller

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.									
PROJECT NAME						7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046			
SAMPLES									
LOCATION				TITLE					
COLUMBIA, MD				AUTANI APPLICATION DRAWING WIRELESS (1-CIR) SMALL OFFICE DIAGRAM					
SYSTEM		JOB NUMBER		SIZE	DWG. NO.	EAOS0009-D			REV.
APP		APPLICATIONS		SCALE	N.T.S.				SHEET



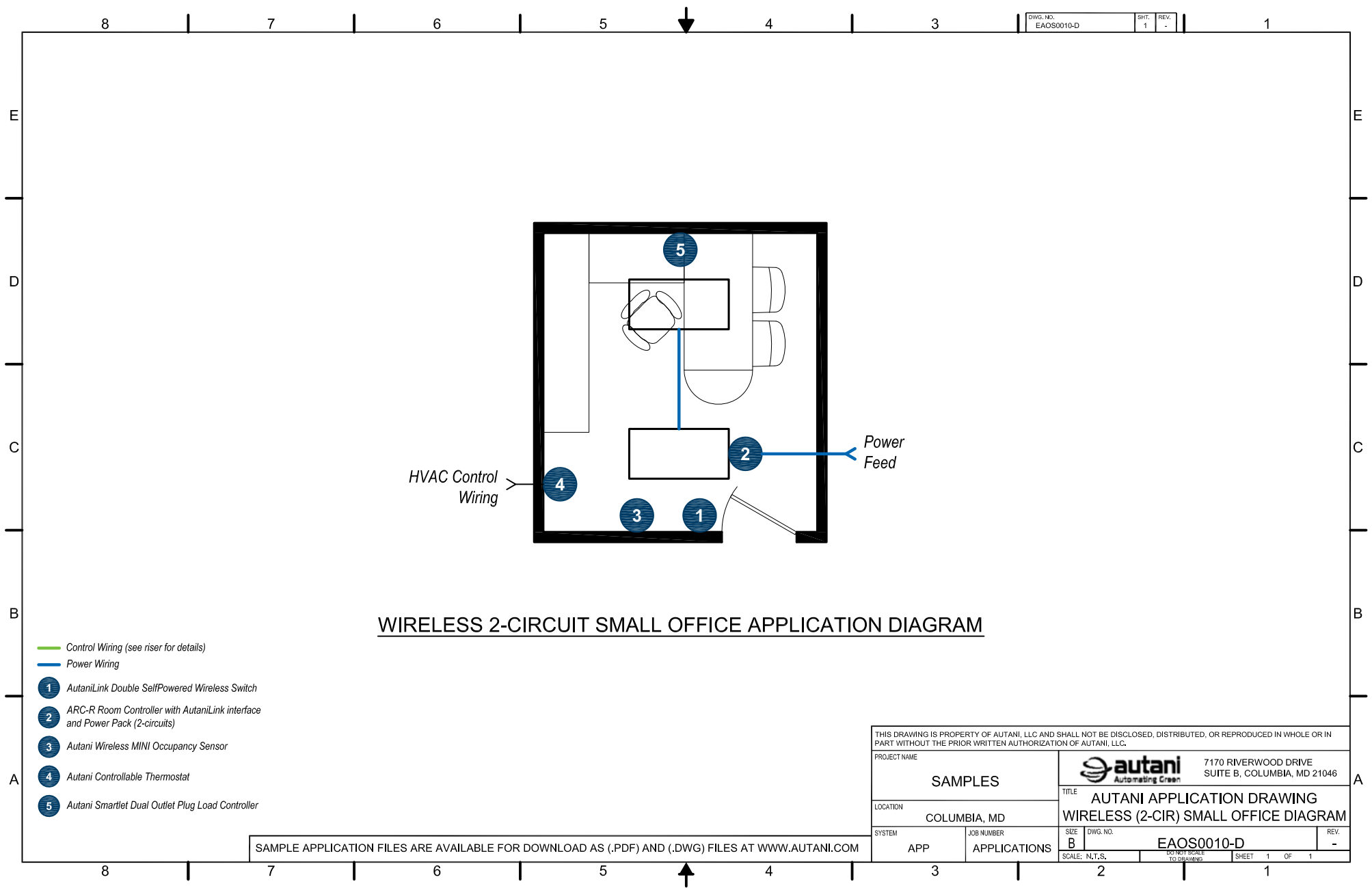
WIRELESS 2-CIRCUIT SMALL OFFICE APPLICATION RISER

AUTANI MANAGER (1 PER SYSTEM REQ)

THIS DEVICE IS SHARED BY THE ENTIRE ENERGYCENTER+ CONTROL SYSTEM AND SHOULD BE CENTRALLY LOCATED IN THE MESH NETWORK.
(1) AUTANI MANAGER APPLIANCE IS REQUIRED FOR THE ENTIRE BUILDING.

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.						
PROJECT NAME SAMPLES					7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046	
LOCATION COLUMBIA, MD			TITLE AUTANI APPLICATION DRAWING WIRELESS (2-CIR) SMALL OFFICE RISER			
SYSTEM APP		JOB NUMBER APPLICATIONS		SIZE B	DWG. NO. EAOS0010-R	
				SCALE: N.T.S.		REV. -
				DO NOT SCALE TO DRAWING		
				SHEET 1 OF 1		

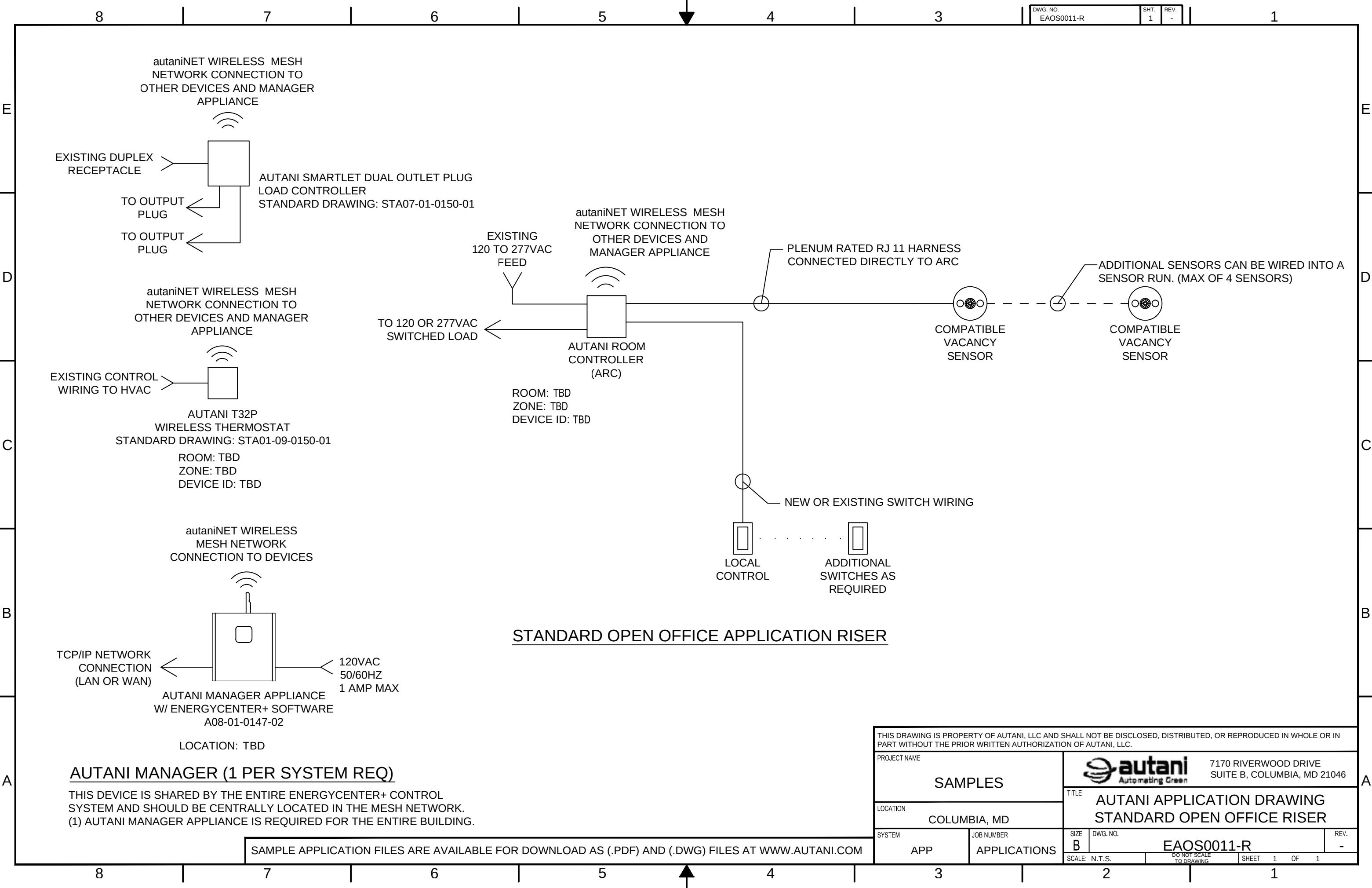


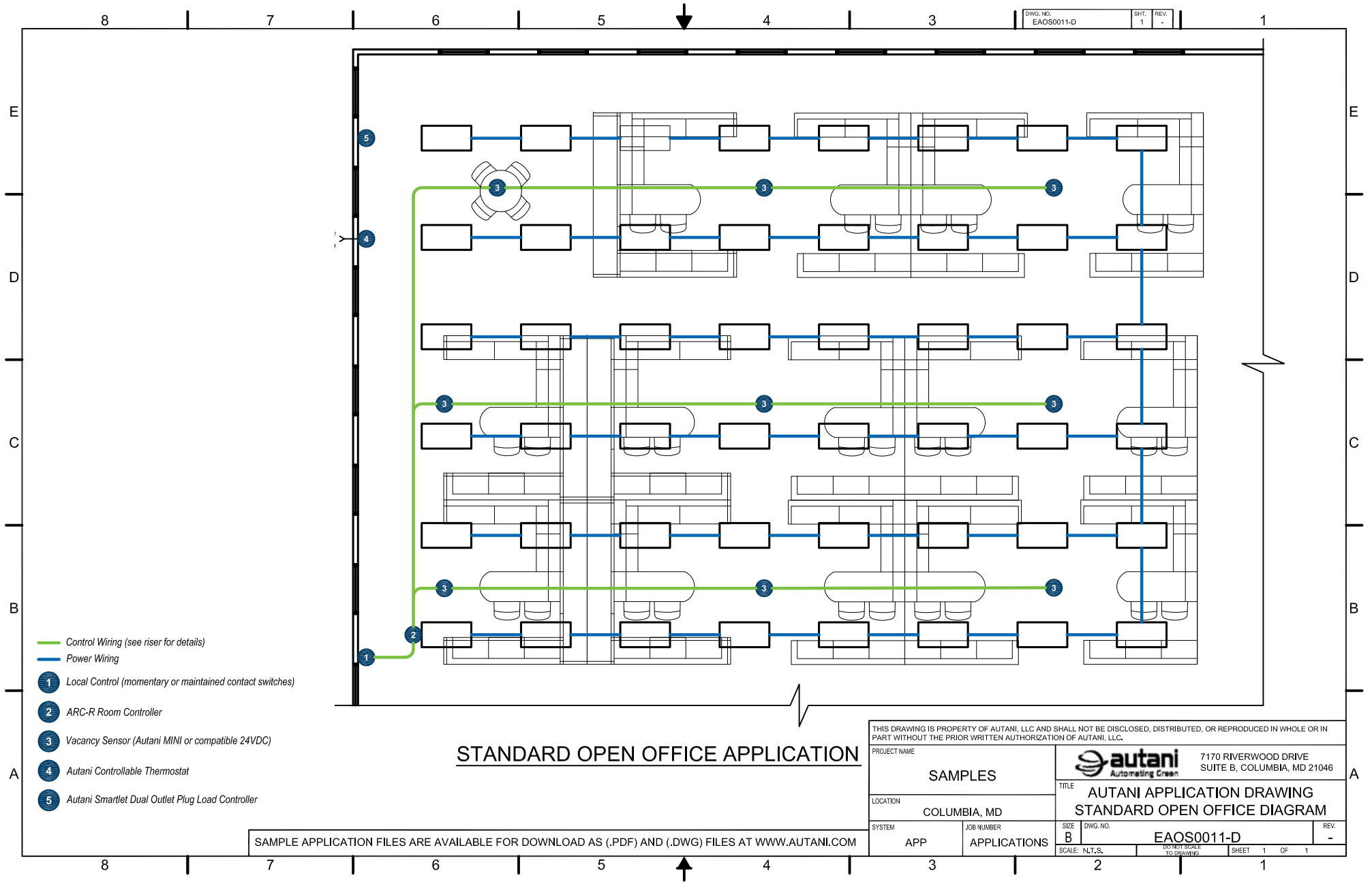
WIRELESS 2-CIRCUIT SMALL OFFICE APPLICATION DIAGRAM

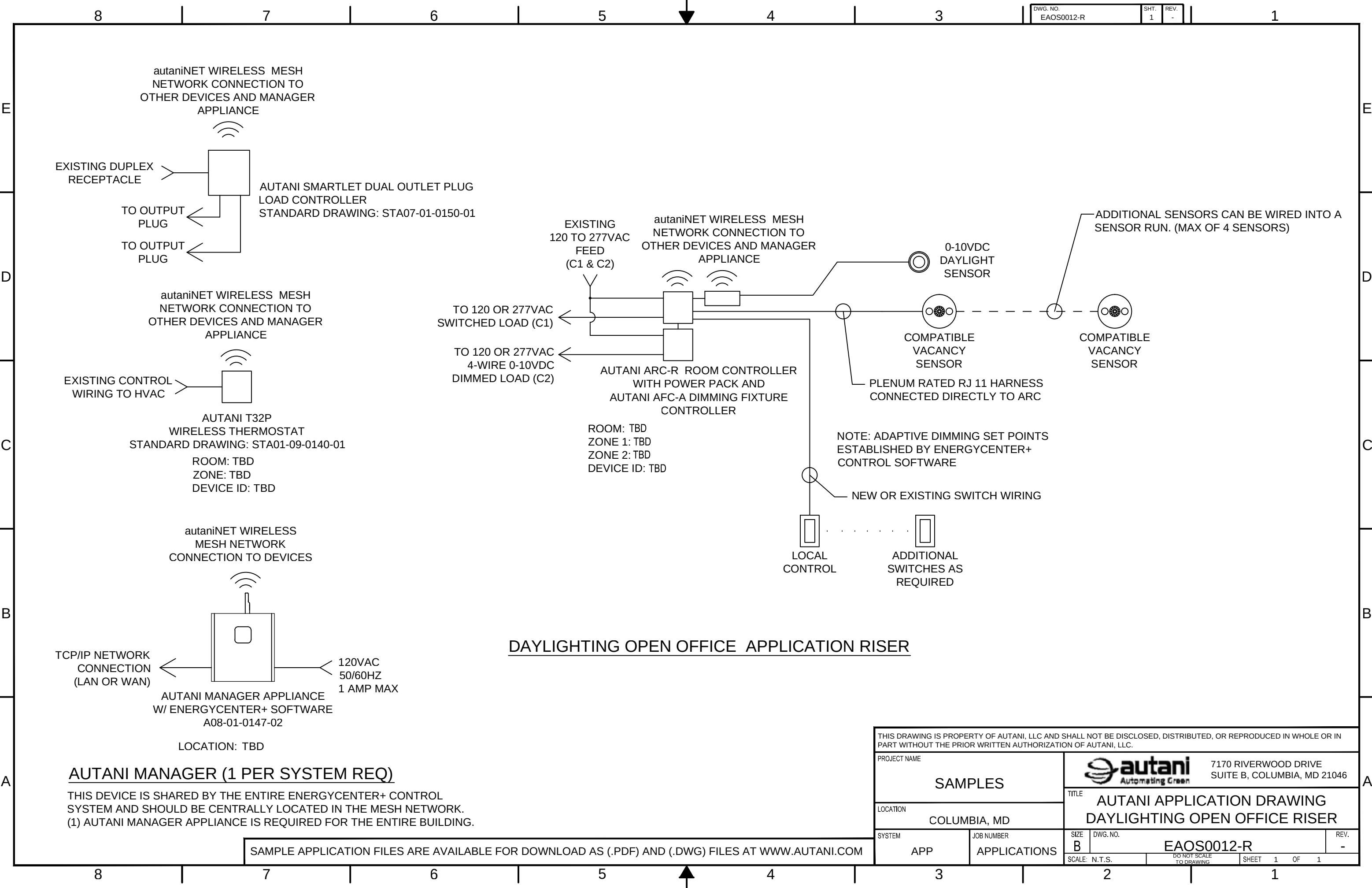
- Control Wiring (see riser for details)
- Power Wiring
- 1 AutaniLink Double SelfPowered Wireless Switch
- 2 ARC-R Room Controller with AutaniLink interface and Power Pack (2-circuits)
- 3 Autani Wireless MINI Occupancy Sensor
- 4 Autani Controllable Thermostat
- 5 Autani Smartlet Dual Outlet Plug Load Controller

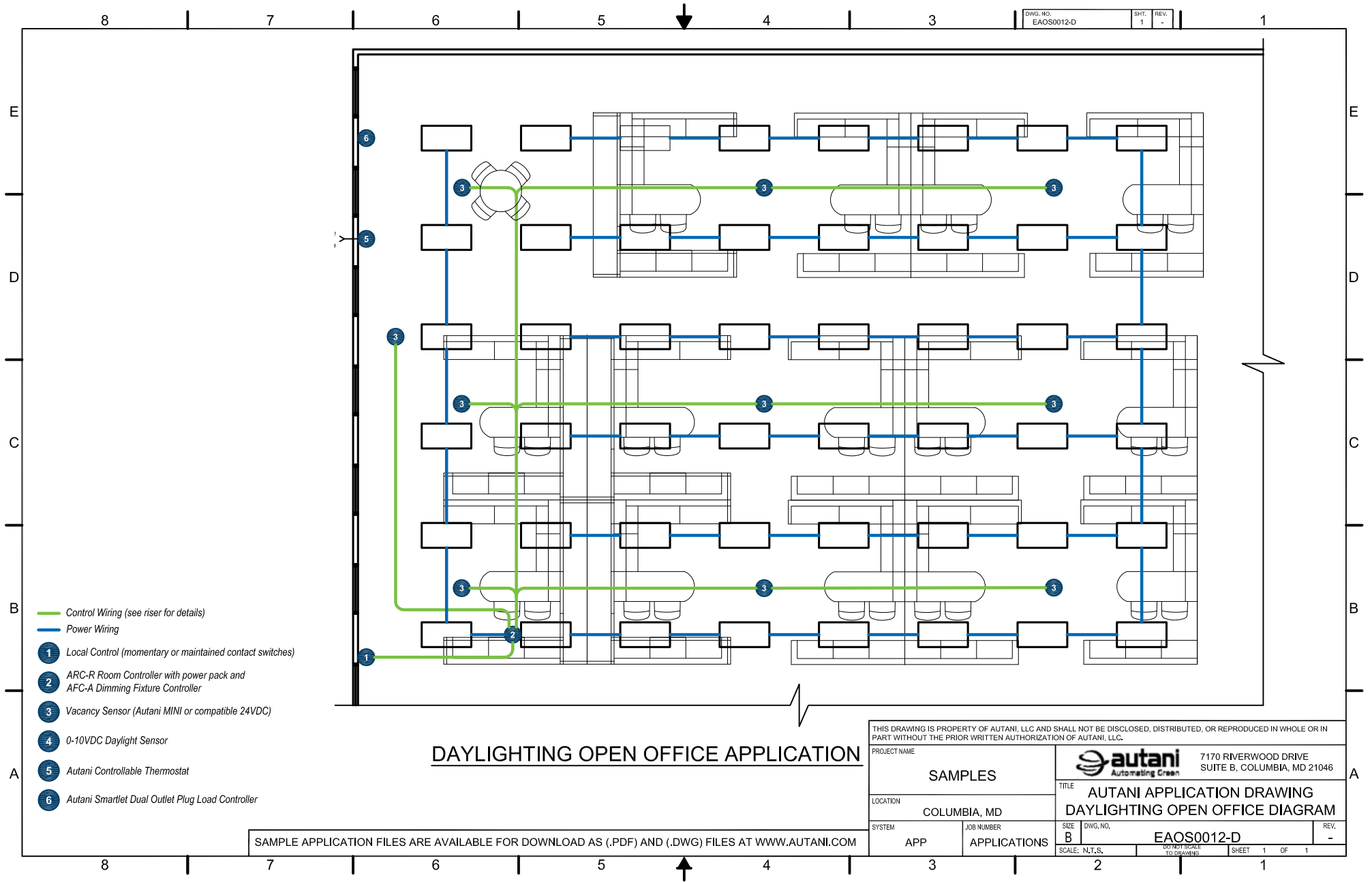
SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

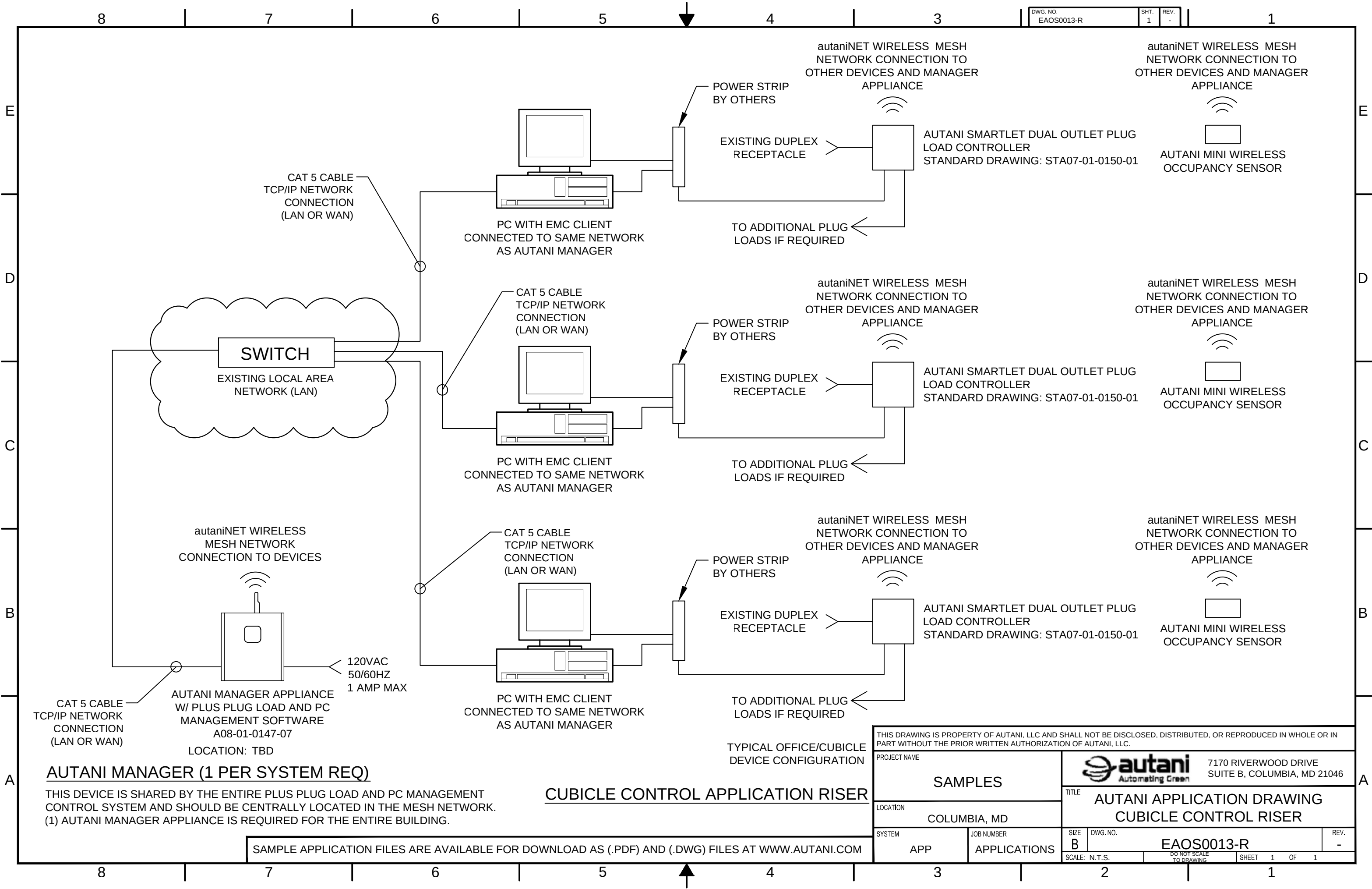
THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.					
PROJECT NAME				7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046	
SAMPLES					
LOCATION		TITLE			
COLUMBIA, MD		AUTANI APPLICATION DRAWING WIRELESS (2-CIR) SMALL OFFICE DIAGRAM			
SYSTEM	JOB NUMBER	SIZE	DWG. NO.	REV.	
APP	APPLICATIONS	B	EAOS0010-D	-	
		SCALE: N.T.S.		SHEET 1 OF 1	











AUTANI MANAGER (1 PER SYSTEM REQ)

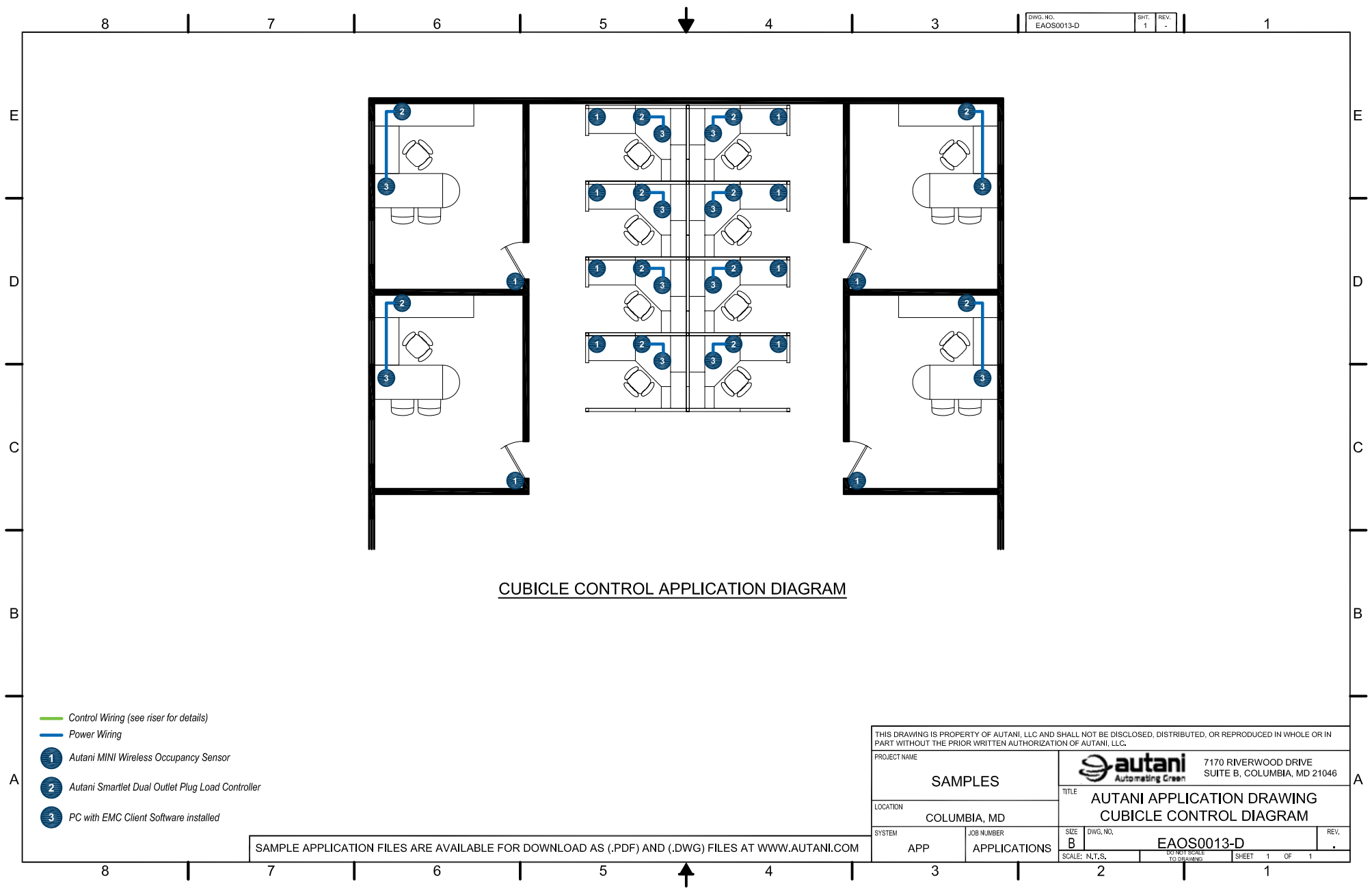
THIS DEVICE IS SHARED BY THE ENTIRE PLUS PLUG LOAD AND PC MANAGEMENT CONTROL SYSTEM AND SHOULD BE CENTRALLY LOCATED IN THE MESH NETWORK.
(1) AUTANI MANAGER APPLIANCE IS REQUIRED FOR THE ENTIRE BUILDING.

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

CUBICLE CONTROL APPLICATION RISER

TYPICAL OFFICE/CUBICLE
DEVICE CONFIGURATION

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.					
PROJECT NAME			7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046		
SAMPLES			autani Automating Green		
LOCATION			TITLE		
COLUMBIA, MD			AUTANI APPLICATION DRAWING CUBICLE CONTROL RISER		
SYSTEM		JOB NUMBER		SIZE	DWG. NO.
APP		APPLICATIONS		B	EAOS0013-R
SCALE: N.T.S.		DO NOT SCALE TO DRAWING		SHEET	1 OF 1

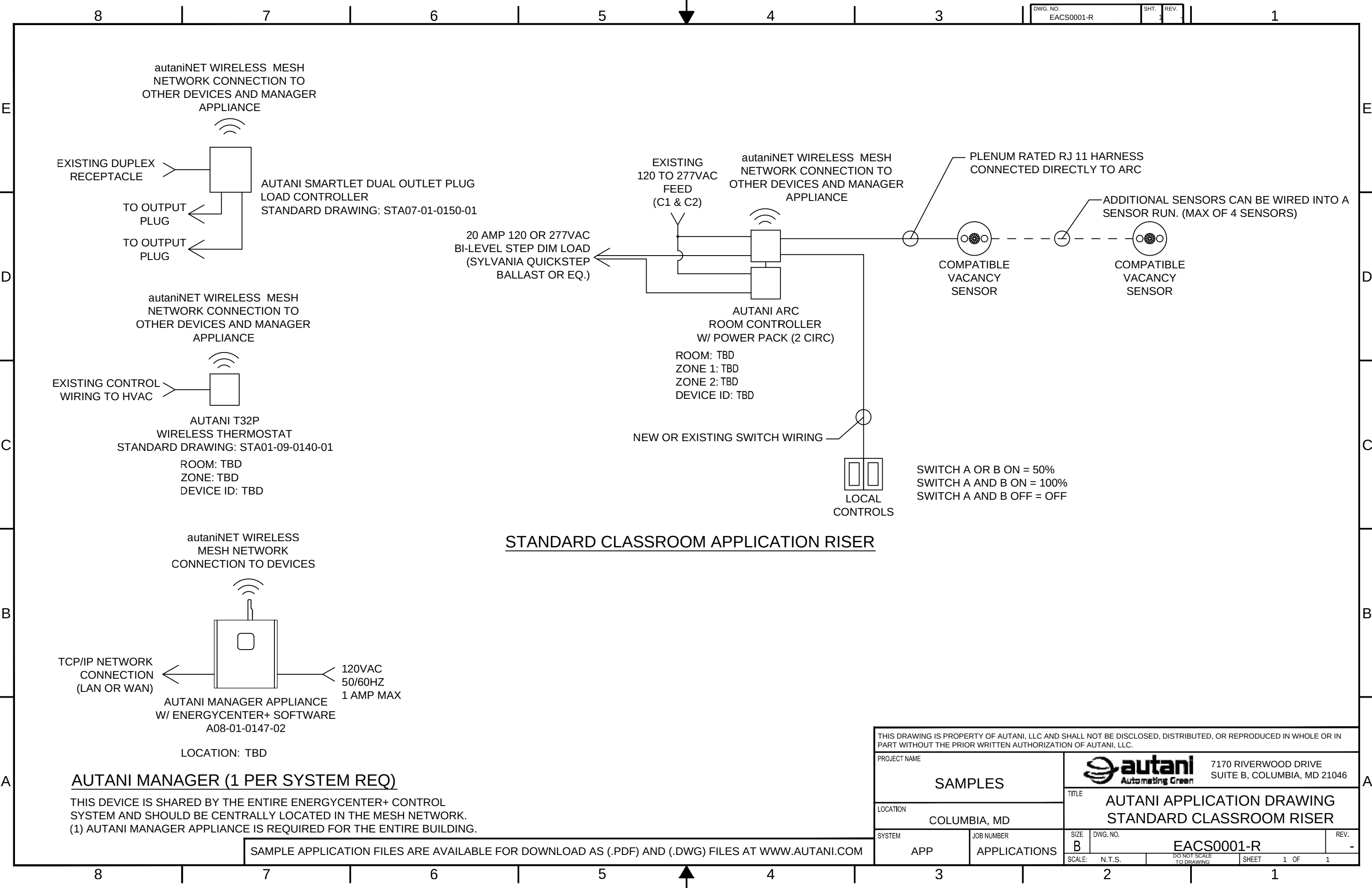


CUBICLE CONTROL APPLICATION DIAGRAM

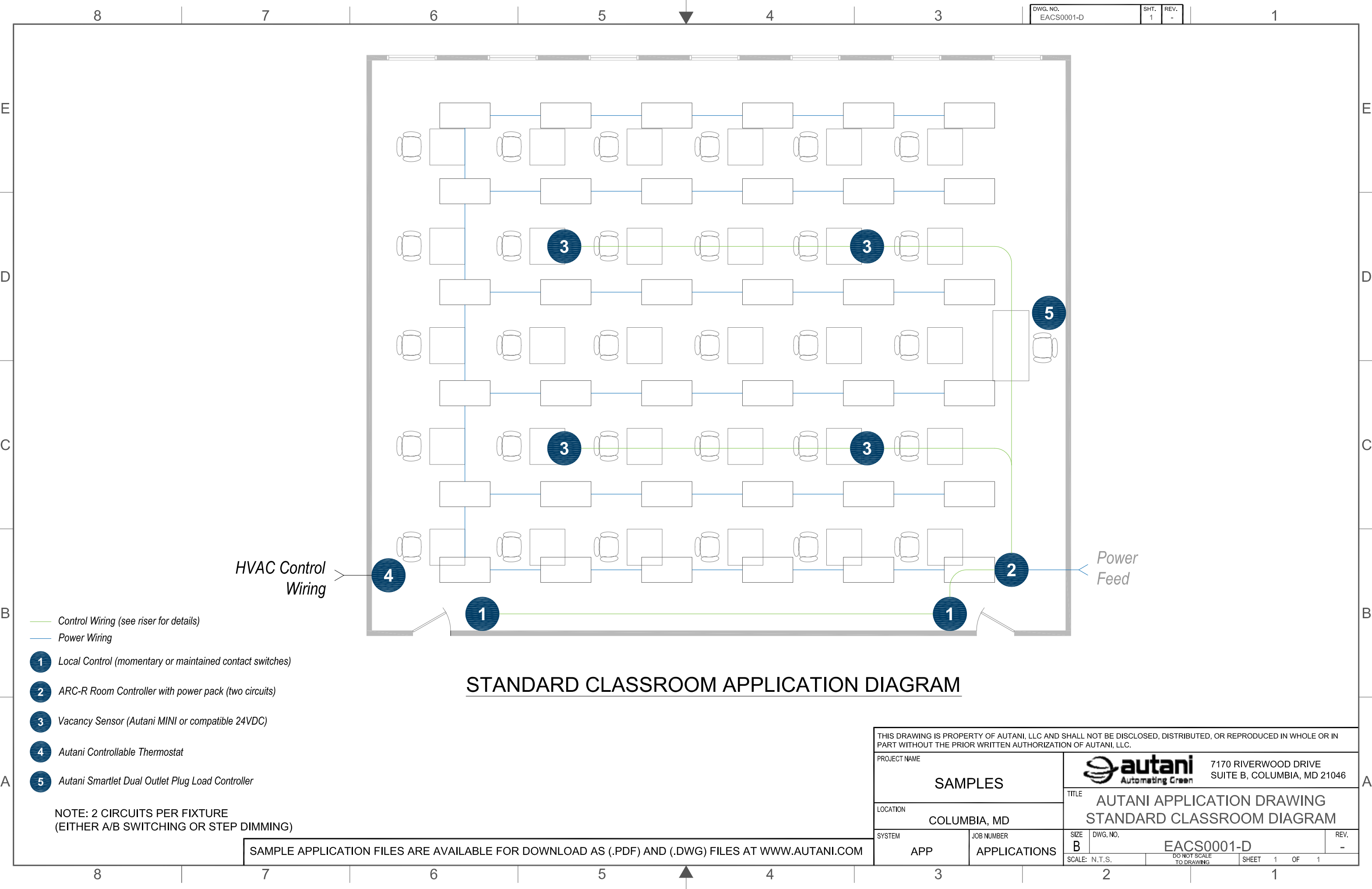
- Control Wiring (see riser for details)
- Power Wiring
- 1 Autani MINI Wireless Occupancy Sensor
- 2 Autani Smartlet Dual Outlet Plug Load Controller
- 3 PC with EMC Client Software installed

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.			
PROJECT NAME		 7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046	
LOCATION		TITLE	
COLUMBIA, MD		AUTANI APPLICATION DRAWING CUBICLE CONTROL DIAGRAM	
SYSTEM	JOB NUMBER	SIZE	DWG. NO.
APP	APPLICATIONS	B	EAOS0013-D
SCALE: N.T.S.		SHEET 1 OF 1	



THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.						
PROJECT NAME SAMPLES				7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046		
LOCATION COLUMBIA, MD		TITLE AUTANI APPLICATION DRAWING STANDARD CLASSROOM RISER				
SYSTEM APP	JOB NUMBER APPLICATIONS	SIZE B	DWG. NO. EACS0001-R			REV. -
		SCALE: N.T.S.	DO NOT SCALE TO DRAWING	SHEET 1 OF 1		



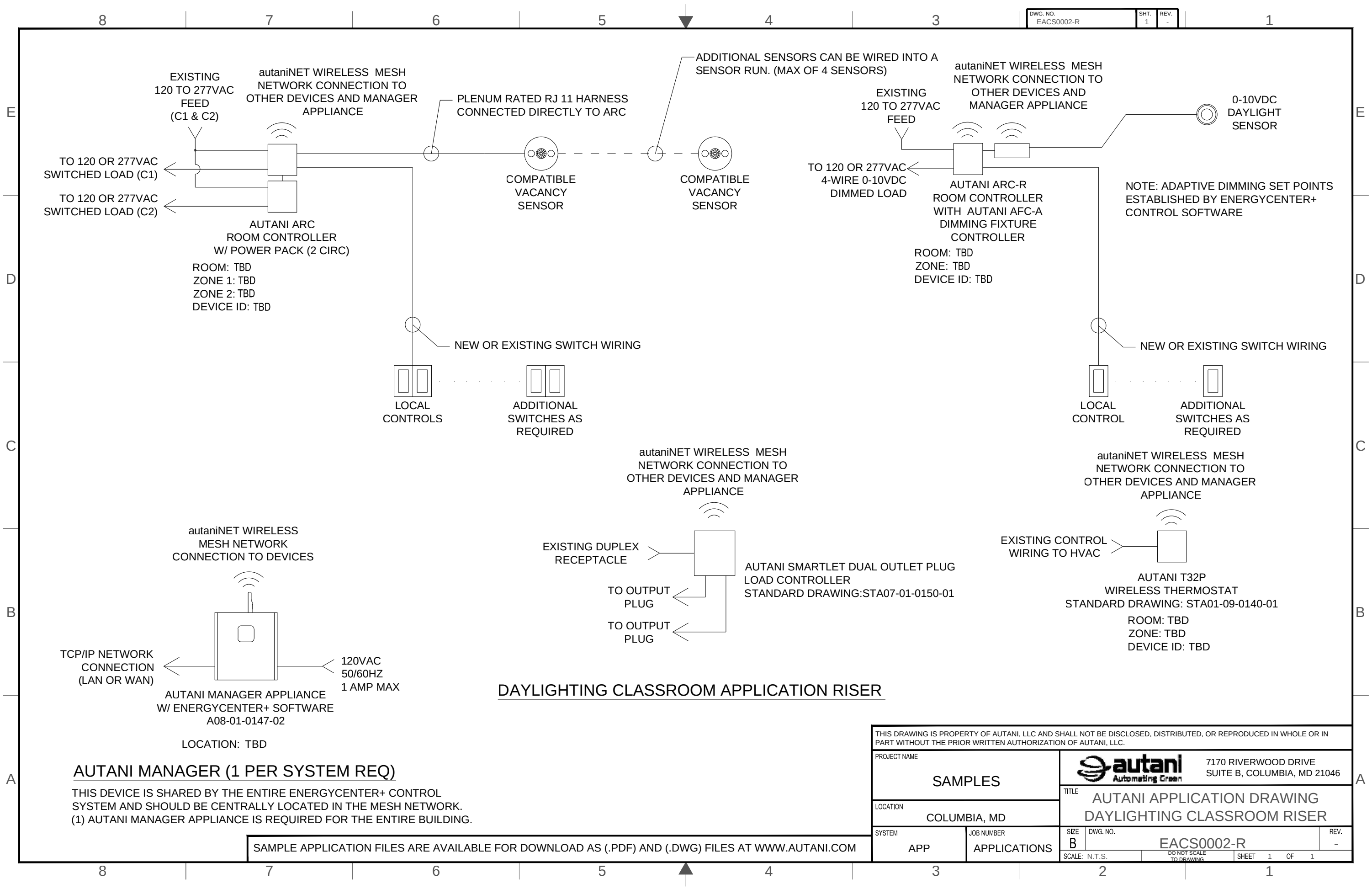
STANDARD CLASSROOM APPLICATION DIAGRAM

- Control Wiring (see riser for details)
- Power Wiring
- 1 Local Control (momentary or maintained contact switches)
- 2 ARC-R Room Controller with power pack (two circuits)
- 3 Vacancy Sensor (Autani MINI or compatible 24VDC)
- 4 Autani Controllable Thermostat
- 5 Autani Smartlet Dual Outlet Plug Load Controller

NOTE: 2 CIRCUITS PER FIXTURE
(EITHER A/B SWITCHING OR STEP DIMMING)

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.					
PROJECT NAME			7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046		
SAMPLES			TITLE		
COLUMBIA, MD			AUTANI APPLICATION DRAWING STANDARD CLASSROOM DIAGRAM		
LOCATION		JOB NUMBER		SIZE	DWG. NO.
APP		APPLICATIONS		B	EACS0001-D
SCALE: N.T.S.		DO NOT SCALE TO DRAWING		SHEET	REV.
				1	-



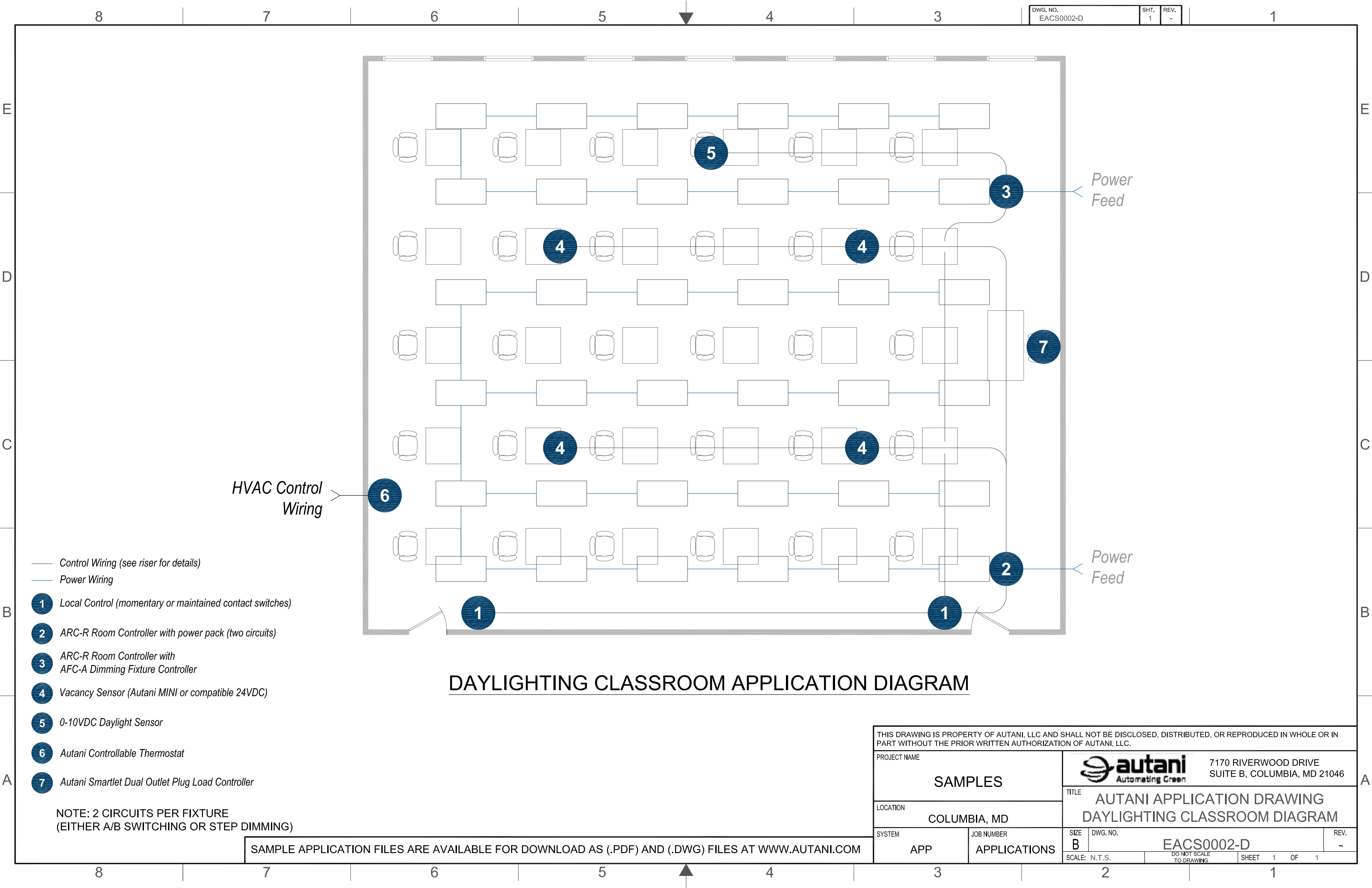
DAYLIGHTING CLASSROOM APPLICATION RISER

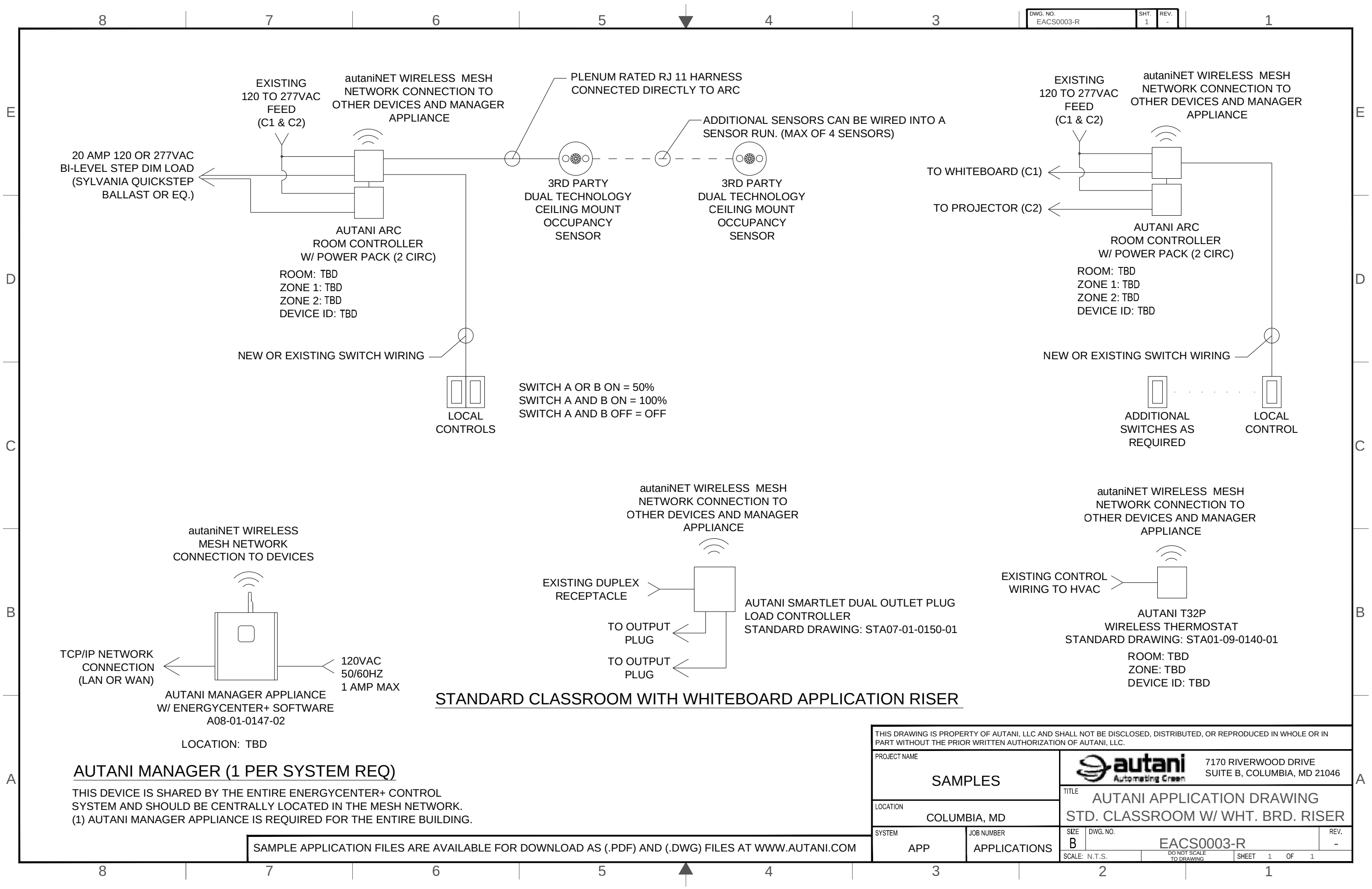
AUTANI MANAGER (1 PER SYSTEM REQ)

THIS DEVICE IS SHARED BY THE ENTIRE ENERGYCENTER+ CONTROL SYSTEM AND SHOULD BE CENTRALLY LOCATED IN THE MESH NETWORK.
(1) AUTANI MANAGER APPLIANCE IS REQUIRED FOR THE ENTIRE BUILDING.

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.			
PROJECT NAME		7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046	
LOCATION		TITLE	
SYSTEM		SIZE	
JOB NUMBER		DWG. NO.	
APP		EACS0002-R	
APPLICATIONS		REV.	
SCALE: N.T.S.		DO NOT SCALE TO DRAWING	
SHEET 1 OF 1			





DWG. NO.	SHT.	REV.
EACS0003-R	1	-

20 AMP 120 OR 277VAC
BI-LEVEL STEP DIM LOAD
(SYLVANIA QUICKSTEP
BALLAST OR EQ.)

EXISTING
120 TO 277VAC
FEED
(C1 & C2)

autaniNET WIRELESS MESH
NETWORK CONNECTION TO
OTHER DEVICES AND MANAGER
APPLIANCE

AUTANI ARC
ROOM CONTROLLER
W/ POWER PACK (2 CIRC)

ROOM: TBD
ZONE 1: TBD
ZONE 2: TBD
DEVICE ID: TBD

NEW OR EXISTING SWITCH WIRING



SWITCH A OR B ON = 50%
SWITCH A AND B ON = 100%
SWITCH A AND B OFF = OFF

PLENUM RATED RJ 11 HARNESS
CONNECTED DIRECTLY TO ARC

3RD PARTY
DUAL TECHNOLOGY
CEILING MOUNT
OCCUPANCY
SENSOR

ADDITIONAL SENSORS CAN BE WIRED INTO A
SENSOR RUN. (MAX OF 4 SENSORS)

3RD PARTY
DUAL TECHNOLOGY
CEILING MOUNT
OCCUPANCY
SENSOR

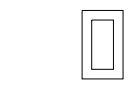
EXISTING
120 TO 277VAC
FEED
(C1 & C2)

autaniNET WIRELESS MESH
NETWORK CONNECTION TO
OTHER DEVICES AND MANAGER
APPLIANCE

AUTANI ARC
ROOM CONTROLLER
W/ POWER PACK (2 CIRC)

ROOM: TBD
ZONE 1: TBD
ZONE 2: TBD
DEVICE ID: TBD

NEW OR EXISTING SWITCH WIRING

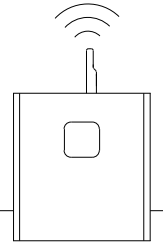


ADDITIONAL
SWITCHES AS
REQUIRED



LOCAL
CONTROL

autaniNET WIRELESS
MESH NETWORK
CONNECTION TO DEVICES



TCP/IP NETWORK
CONNECTION
(LAN OR WAN)

AUTANI MANAGER APPLIANCE
W/ ENERGYCENTER+ SOFTWARE
A08-01-0147-02

LOCATION: TBD

AUTANI MANAGER (1 PER SYSTEM REQ)

THIS DEVICE IS SHARED BY THE ENTIRE ENERGYCENTER+ CONTROL
SYSTEM AND SHOULD BE CENTRALLY LOCATED IN THE MESH NETWORK.
(1) AUTANI MANAGER APPLIANCE IS REQUIRED FOR THE ENTIRE BUILDING.

autaniNET WIRELESS MESH
NETWORK CONNECTION TO
OTHER DEVICES AND MANAGER
APPLIANCE

EXISTING DUPLEX
RECEPTACLE

TO OUTPUT
PLUG

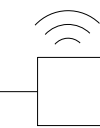
TO OUTPUT
PLUG



AUTANI SMARTLET DUAL OUTLET PLUG
LOAD CONTROLLER
STANDARD DRAWING: STA07-01-0150-01

autaniNET WIRELESS MESH
NETWORK CONNECTION TO
OTHER DEVICES AND MANAGER
APPLIANCE

EXISTING CONTROL
WIRING TO HVAC

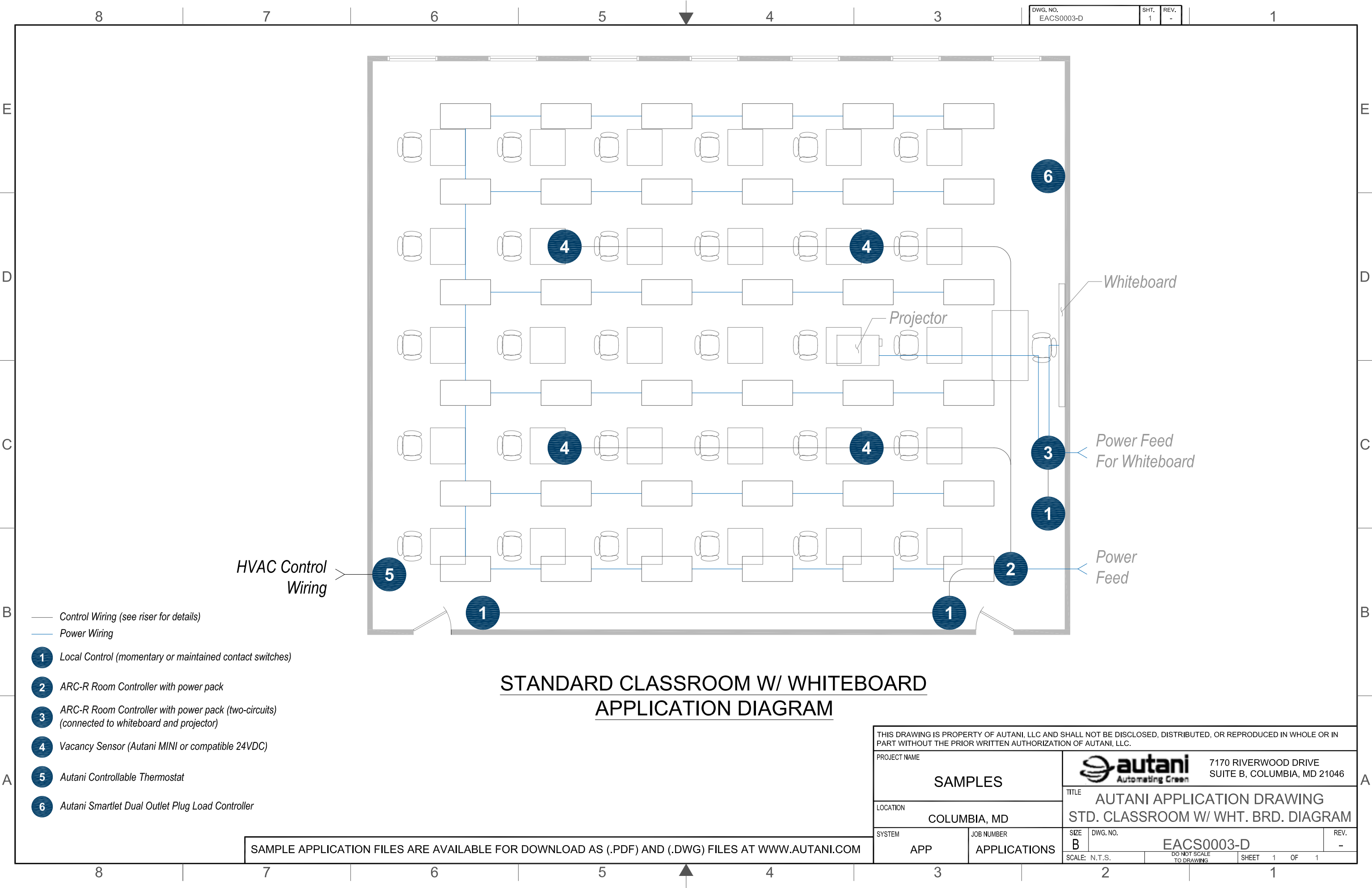


AUTANI T32P
WIRELESS THERMOSTAT
STANDARD DRAWING: STA01-09-0140-01

ROOM: TBD
ZONE: TBD
DEVICE ID: TBD

STANDARD CLASSROOM WITH WHITEBOARD APPLICATION RISER

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.					
PROJECT NAME SAMPLES				7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046	
LOCATION COLUMBIA, MD		TITLE AUTANI APPLICATION DRAWING STD. CLASSROOM W/ WHT. BRD. RISER			
SYSTEM	JOB NUMBER	SIZE	DWG. NO.	REV.	
APP	APPLICATIONS	B	EACS0003-R	-	
		SCALE: N.T.S.	DO NOT SCALE TO DRAWING	SHEET	1 OF 1

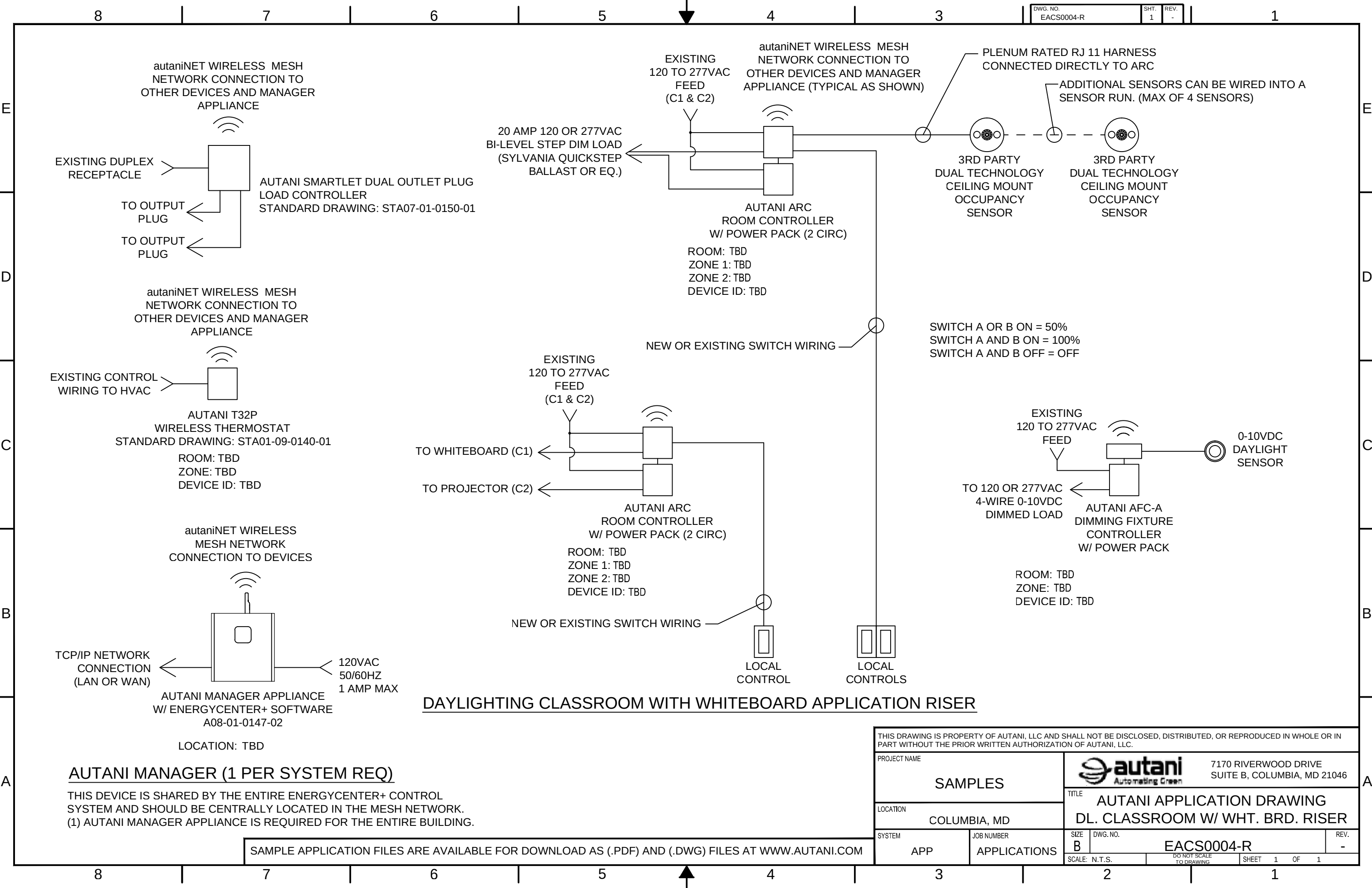


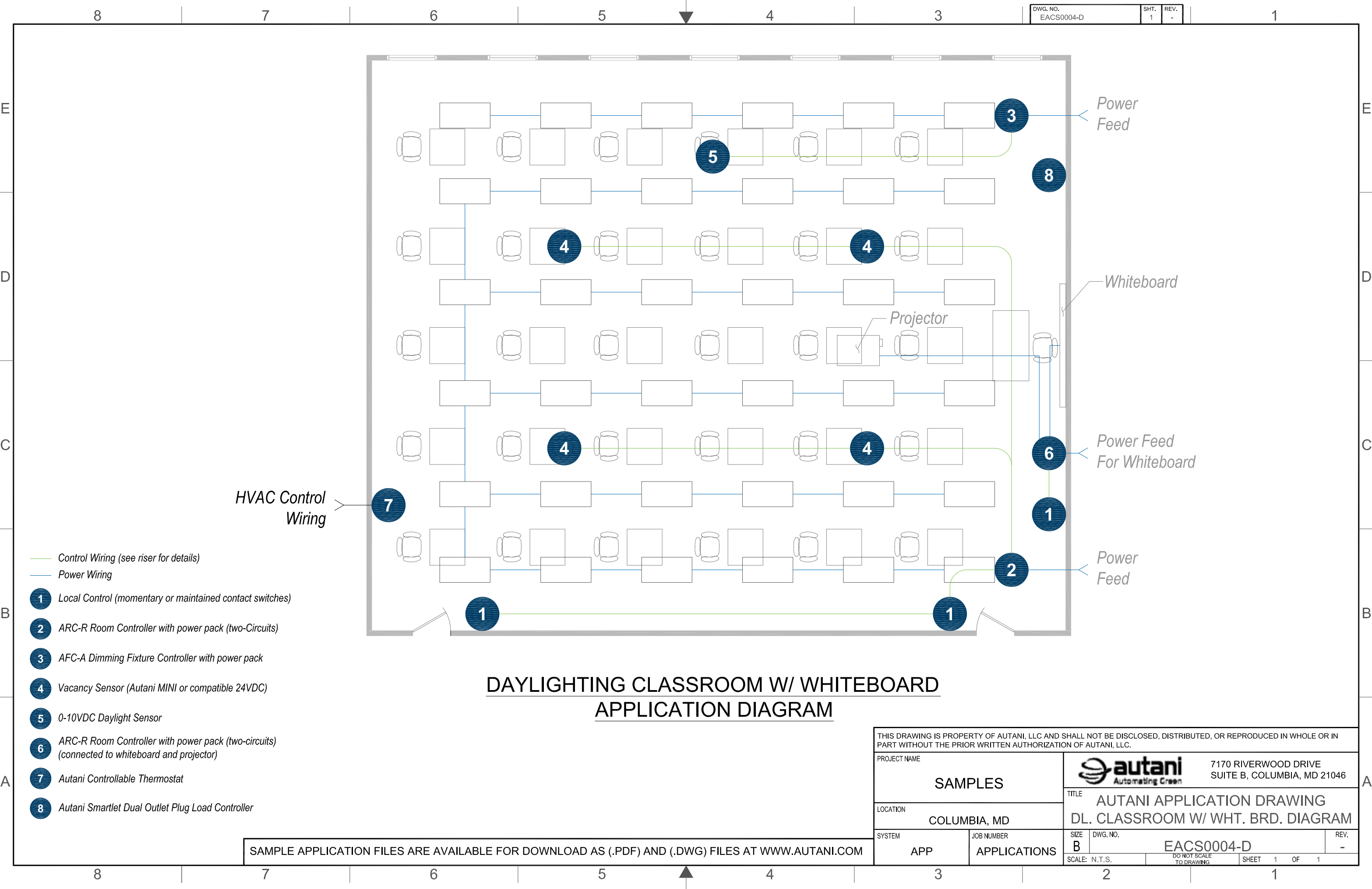
STANDARD CLASSROOM W/ WHITEBOARD
APPLICATION DIAGRAM

- Control Wiring (see riser for details)
- Power Wiring
- 1 Local Control (momentary or maintained contact switches)
- 2 ARC-R Room Controller with power pack
- 3 ARC-R Room Controller with power pack (two-circuits) (connected to whiteboard and projector)
- 4 Vacancy Sensor (Autani MINI or compatible 24VDC)
- 5 Autani Controllable Thermostat
- 6 Autani Smartlet Dual Outlet Plug Load Controller

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

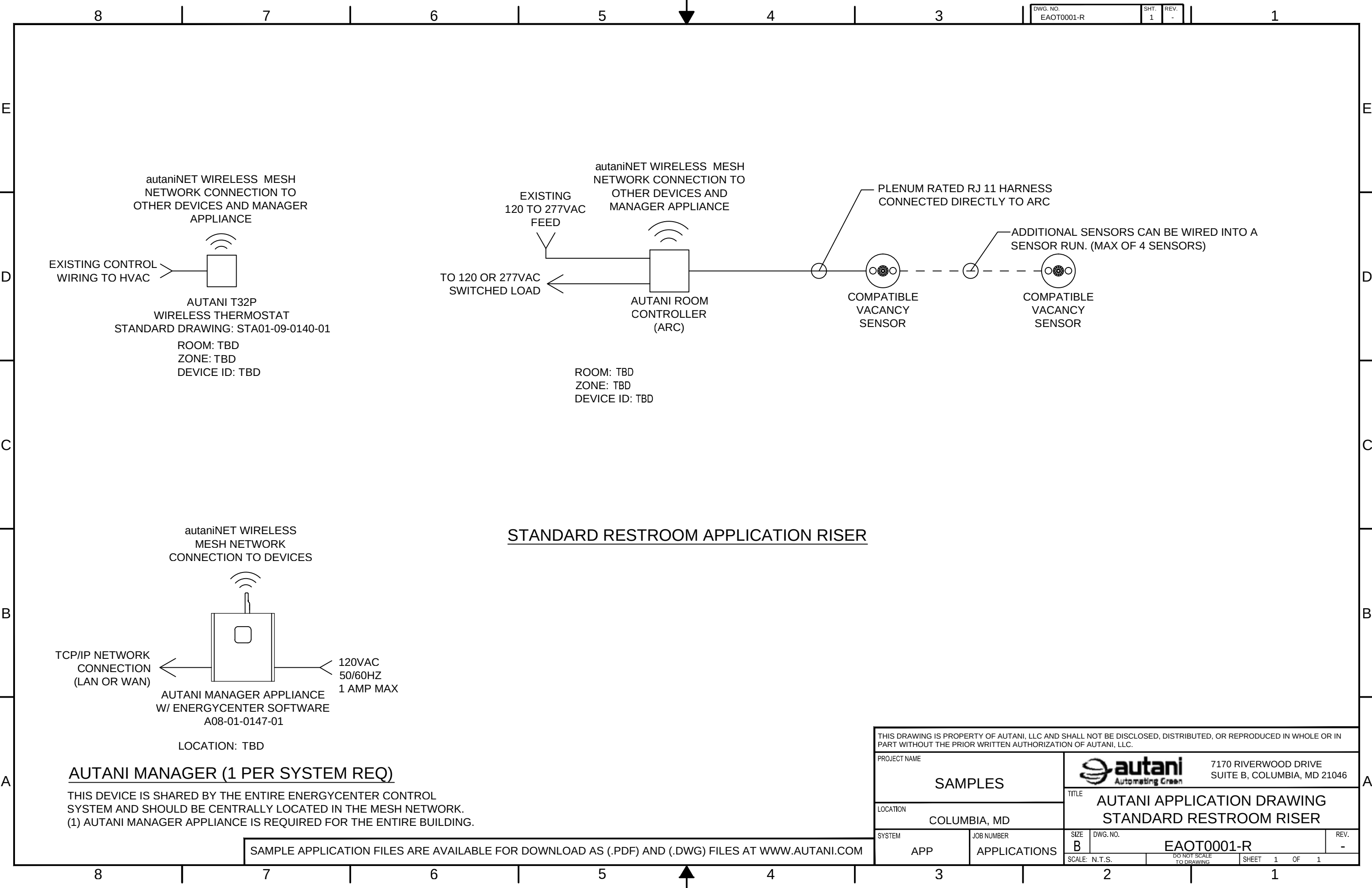
THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.					
PROJECT NAME			autani Automating Green		
SAMPLES			7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046		
LOCATION			TITLE		
COLUMBIA, MD			AUTANI APPLICATION DRAWING STD. CLASSROOM W/ WHT. BRD. DIAGRAM		
SYSTEM		JOB NUMBER		SIZE	DWG. NO.
APP		APPLICATIONS		B	EACS0003-D
SCALE: N.T.S.		DO NOT SCALE TO DRAWING		SHEET	REV.
1		1		1	-





SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.					
PROJECT NAME			7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046		
SAMPLES			TITLE		
COLUMBIA, MD			AUTANI APPLICATION DRAWING DL. CLASSROOM W/ WHT. BRD. DIAGRAM		
LOCATION		JOB NUMBER		SIZE	DWG. NO.
APP		APPLICATIONS		B	EACS0004-D
SCALE: N.T.S.		DO NOT SCALE TO DRAWING		SHEET	REV.
				1	-
				OF	
				1	



AUTANI MANAGER (1 PER SYSTEM REQ)

THIS DEVICE IS SHARED BY THE ENTIRE ENERGYCENTER CONTROL SYSTEM AND SHOULD BE CENTRALLY LOCATED IN THE MESH NETWORK.
(1) AUTANI MANAGER APPLIANCE IS REQUIRED FOR THE ENTIRE BUILDING.

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.									
PROJECT NAME SAMPLES						7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046			
LOCATION COLUMBIA, MD				TITLE AUTANI APPLICATION DRAWING STANDARD RESTROOM RISER					
SYSTEM APP		JOB NUMBER APPLICATIONS		SIZE B	DWG. NO. EAOT0001-R				REV. -
				SCALE: N.T.S.					

8

7

6

5

4

3

DWG. NO.
EAOT0001-DSHT.
1REV.
-

1

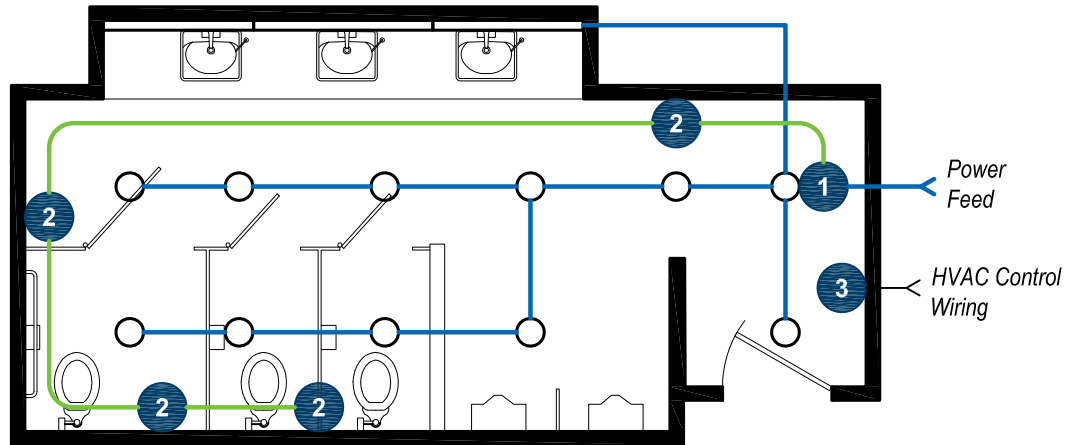
E

D

C

B

A

Power
FeedHVAC Control
Wiring

STANDARD RESTROOM APPLICATION DIAGRAM

Control Wiring (see riser for details)

Power Wiring

1 ARC-R Room Controller (one circuit)

2 Autani Wireless MINI Occupancy Sensor

3 Autani Controllable Thermostat

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.			
PROJECT NAME		 7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046	
LOCATION		TITLE	
COLUMBIA, MD		AUTANI APPLICATION DRAWING STANDARD RESTROOM DIAGRAM	
SYSTEM	JOB NUMBER	SIZE	DWG. NO.
APP	APPLICATIONS	B	EAOT0001-D
SCALE: N.T.S.		SHEET 1 OF 1	

8

7

6

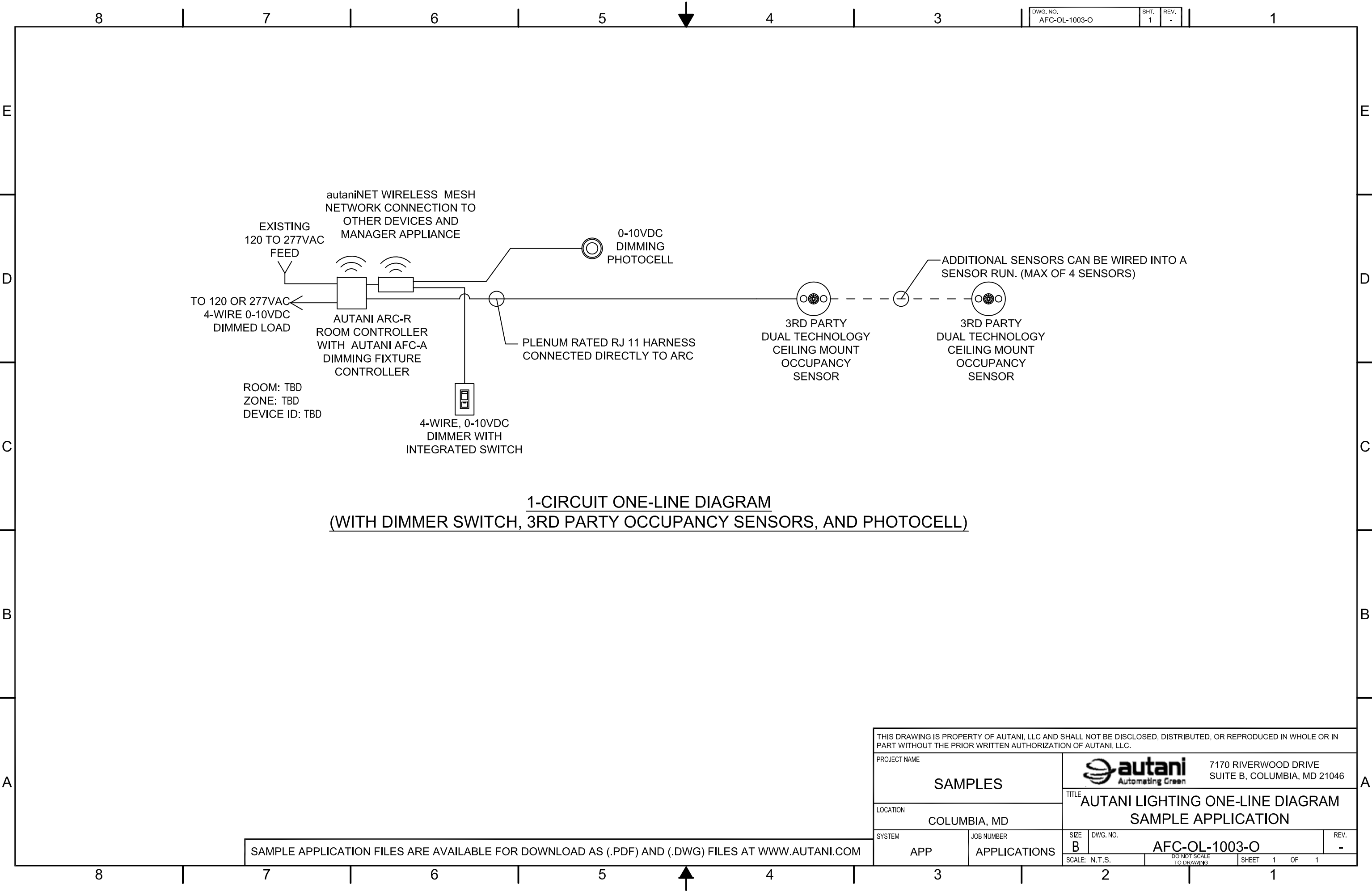
5

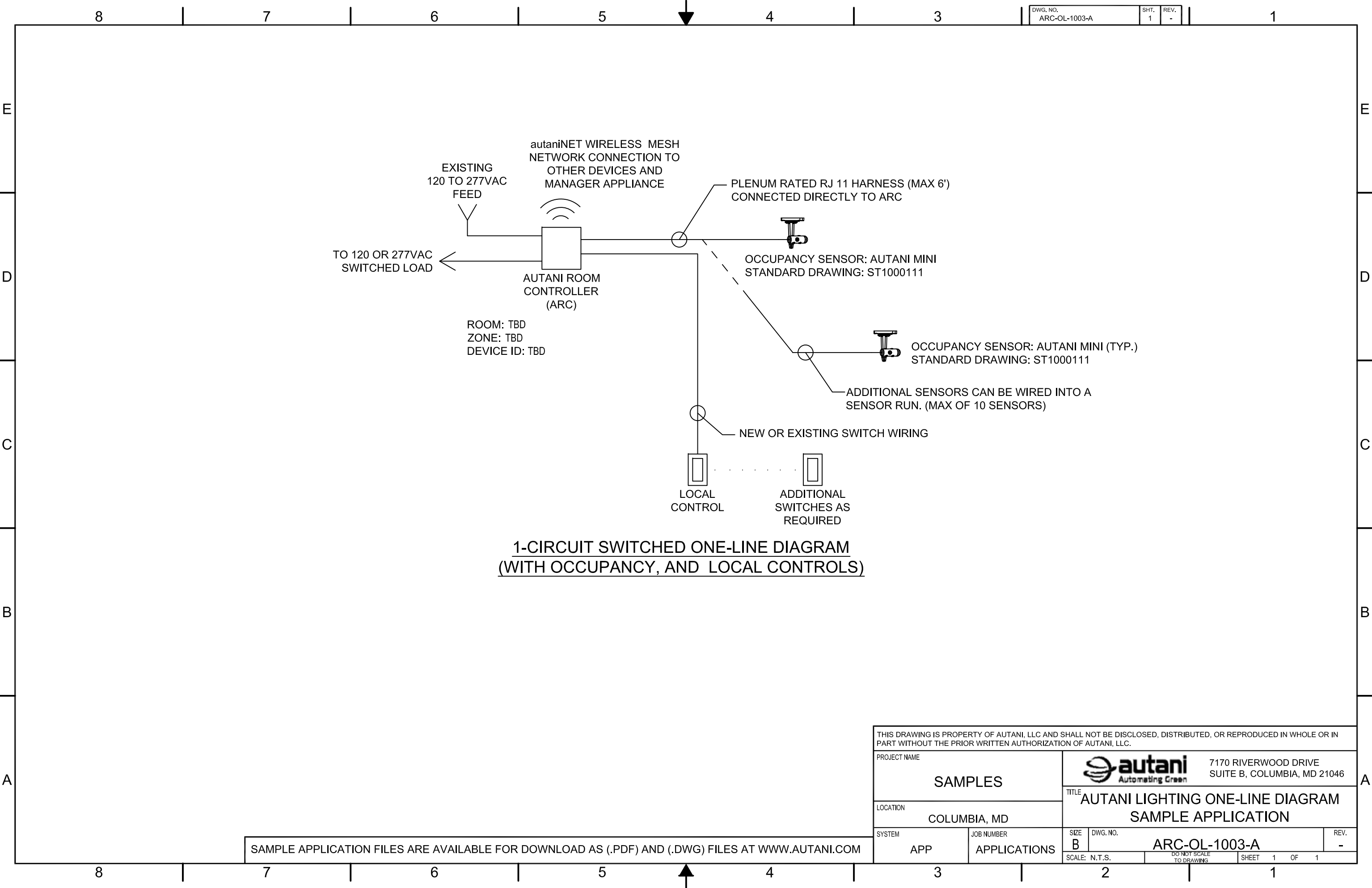
4

3

2

1

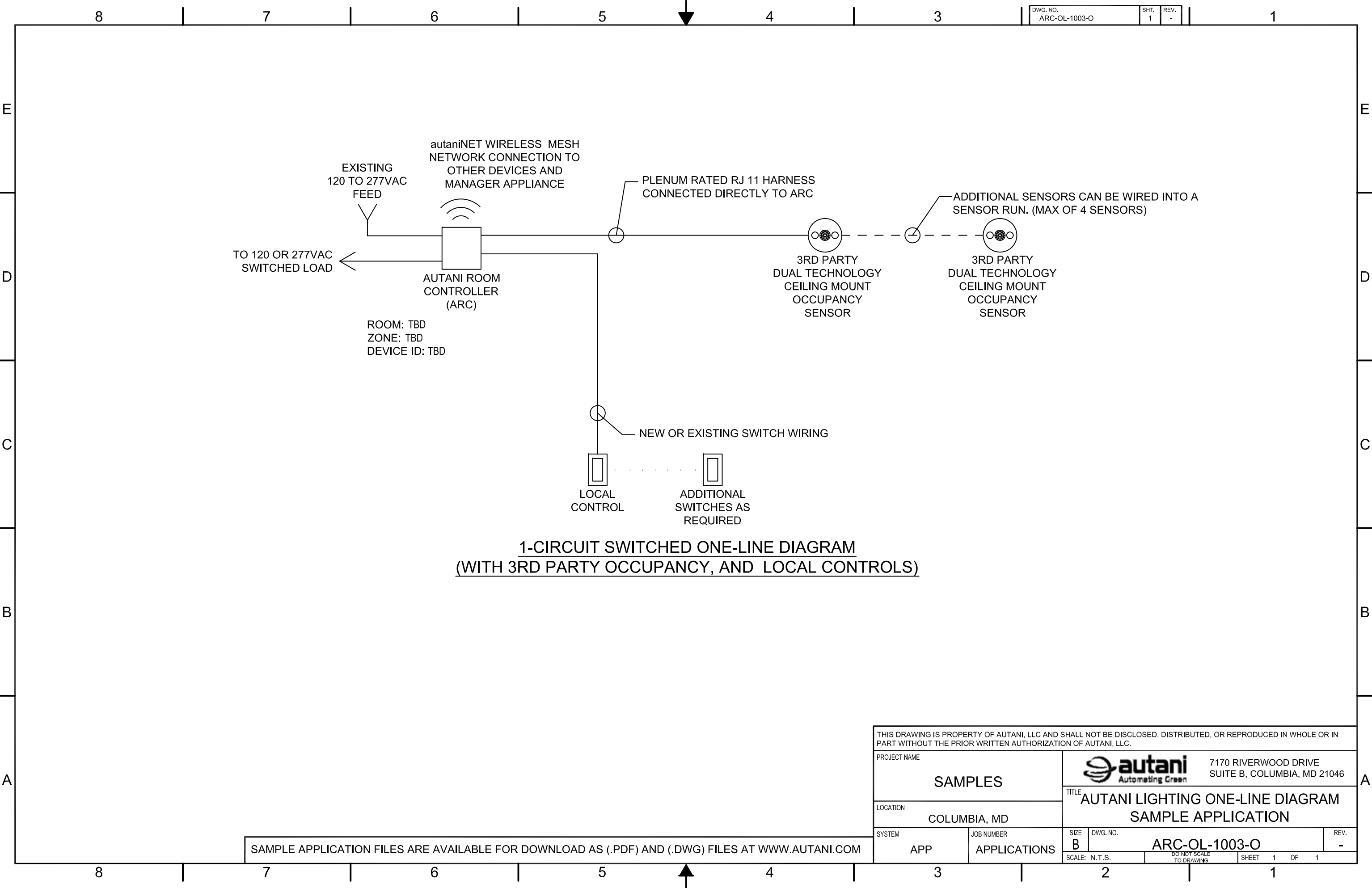




1-CIRCUIT SWITCHED ONE-LINE DIAGRAM
(WITH OCCUPANCY, AND LOCAL CONTROLS)

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

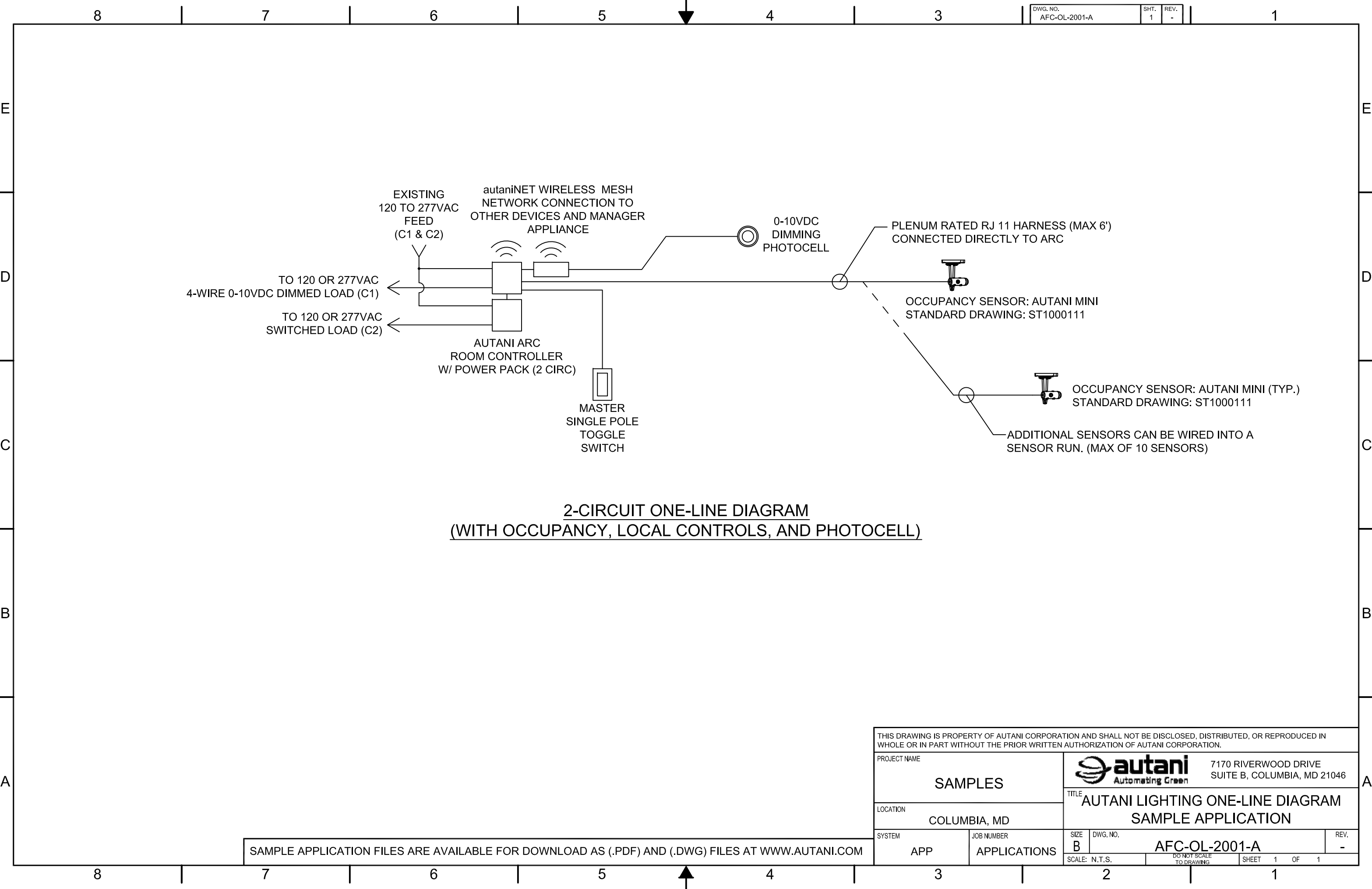
THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.					
PROJECT NAME			7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046		
SAMPLES			TITLE		
COLUMBIA, MD			AUTANI LIGHTING ONE-LINE DIAGRAM SAMPLE APPLICATION		
SYSTEM		JOB NUMBER		SIZE	DWG. NO.
APP		APPLICATIONS		B	ARC-OL-1003-A
SCALE: N.T.S.		DO NOT SCALE TO DRAWING		SHEET	REV.
				1	-
				OF	
				1	



1-CIRCUIT SWITCHED ONE-LINE DIAGRAM
(WITH 3RD PARTY OCCUPANCY, AND LOCAL CONTROLS)

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

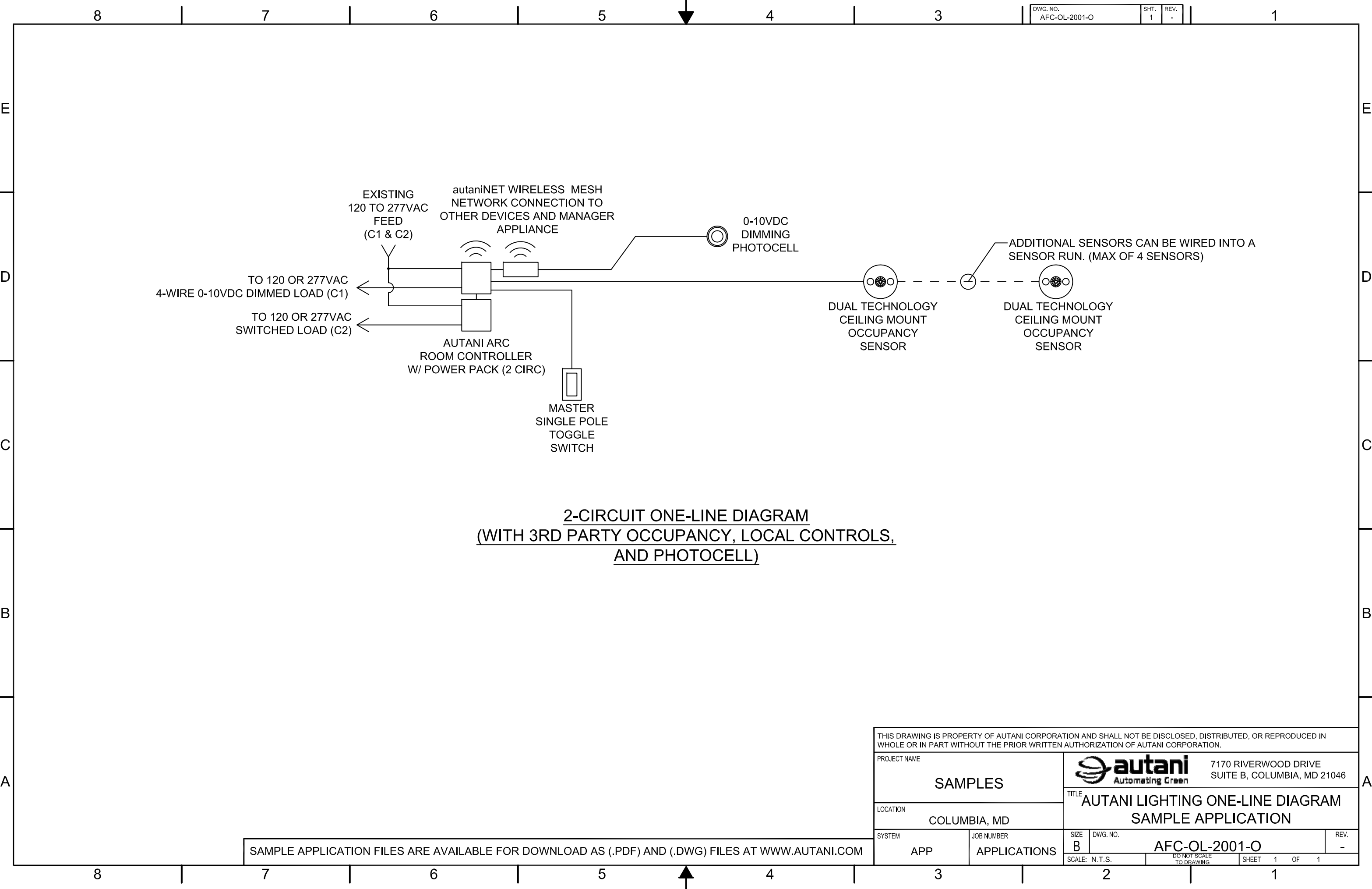
THIS DRAWING IS PROPERTY OF AUTANI, LLC AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI, LLC.					
PROJECT NAME			7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046		
SAMPLES			TITLE		
LOCATION			AUTANI LIGHTING ONE-LINE DIAGRAM SAMPLE APPLICATION		
SYSTEM		JOB NUMBER		SIZE	DWG. NO.
APP		APPLICATIONS		B	ARC-OL-1003-O
SCALE: N.T.S.		DO NOT SCALE TO DRAWING		SHEET	REV.
				1	-
				OF	
				1	



2-CIRCUIT ONE-LINE DIAGRAM
(WITH OCCUPANCY, LOCAL CONTROLS, AND PHOTOCELL)

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

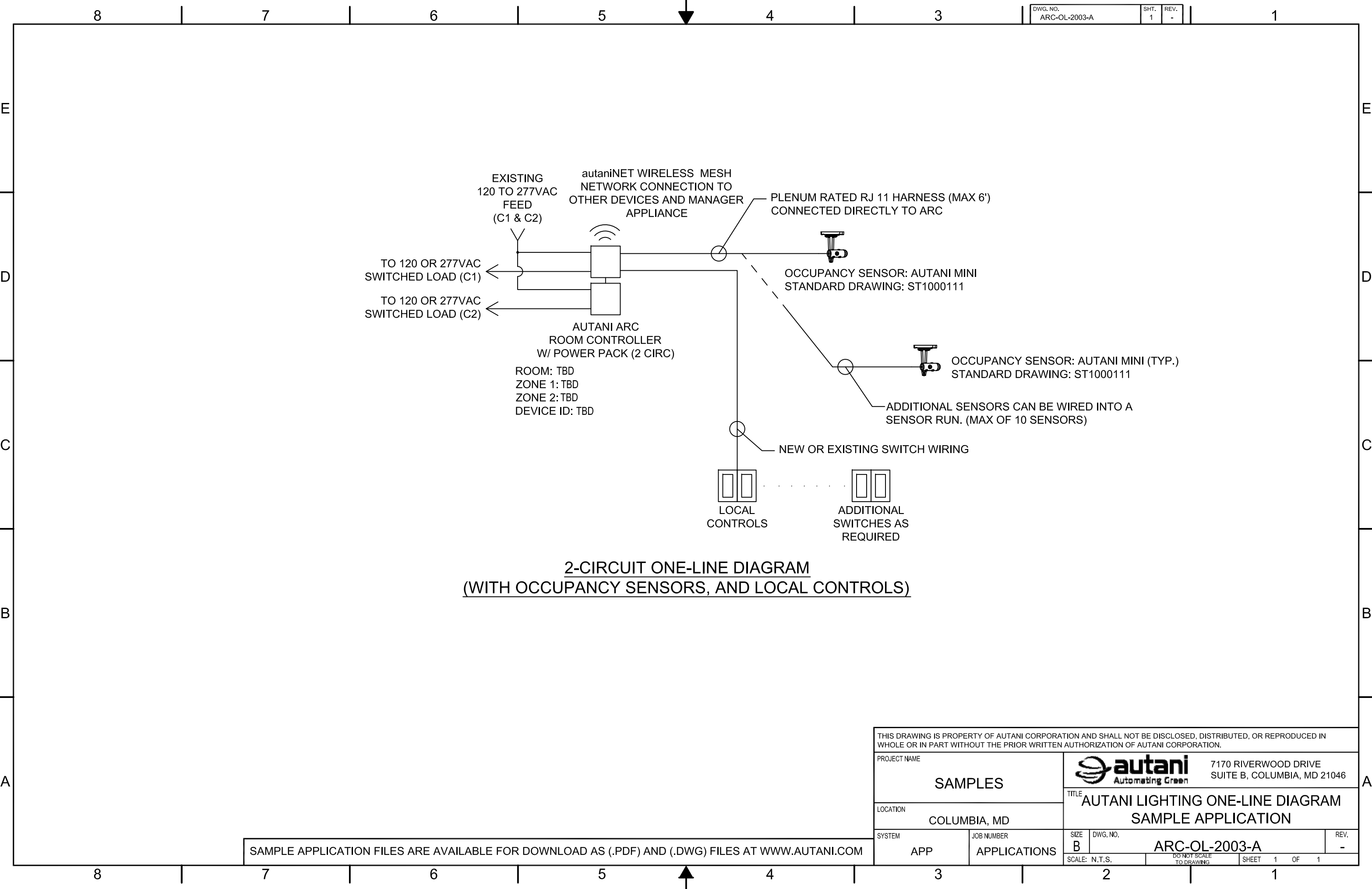
THIS DRAWING IS PROPERTY OF AUTANI CORPORATION AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI CORPORATION.					
PROJECT NAME			7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046		
SAMPLES			AUTANI Automating Green		
LOCATION			TITLE		
COLUMBIA, MD			AUTANI LIGHTING ONE-LINE DIAGRAM SAMPLE APPLICATION		
SYSTEM		JOB NUMBER		SIZE	DWG. NO.
APP		APPLICATIONS		B	AFC-OL-2001-A
SCALE: N.T.S.		DO NOT SCALE TO DRAWING		SHEET	REV.
				1	-
				OF	
				1	



2-CIRCUIT ONE-LINE DIAGRAM
(WITH 3RD PARTY OCCUPANCY, LOCAL CONTROLS,
AND PHOTOCELL)

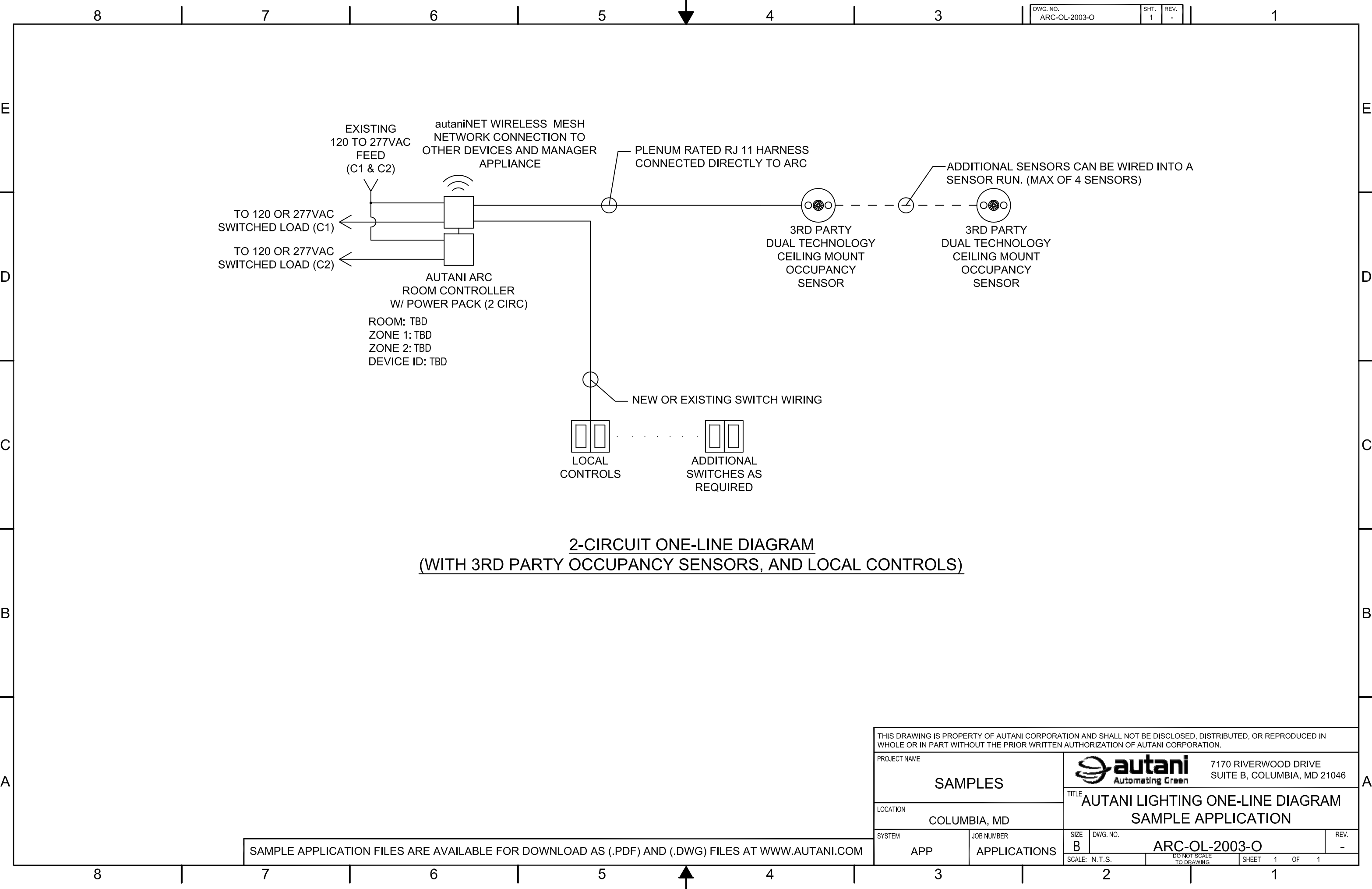
SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

THIS DRAWING IS PROPERTY OF AUTANI CORPORATION AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI CORPORATION.					
PROJECT NAME			7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046		
SAMPLES			TITLE		
COLUMBIA, MD			AUTANI LIGHTING ONE-LINE DIAGRAM SAMPLE APPLICATION		
LOCATION		JOB NUMBER		SIZE	REV.
APP		APPLICATIONS		B	-
SYSTEM		DWG. NO.		SCALE: N.T.S.	DO NOT SCALE TO DRAWING
		AFC-OL-2001-O		SHEET 1 OF 1	



SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

THIS DRAWING IS PROPERTY OF AUTANI CORPORATION AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI CORPORATION.					
PROJECT NAME			7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046		
SAMPLES			TITLE		
COLUMBIA, MD			AUTANI LIGHTING ONE-LINE DIAGRAM SAMPLE APPLICATION		
LOCATION		JOB NUMBER		SIZE	REV.
APP		APPLICATIONS		B	-
SYSTEM		DWG. NO.		SCALE: N.T.S.	DO NOT SCALE TO DRAWING
		ARC-OL-2003-A		SHEET 1 OF 1	



2-CIRCUIT ONE-LINE DIAGRAM
(WITH 3RD PARTY OCCUPANCY SENSORS, AND LOCAL CONTROLS)

SAMPLE APPLICATION FILES ARE AVAILABLE FOR DOWNLOAD AS (.PDF) AND (.DWG) FILES AT WWW.AUTANI.COM

THIS DRAWING IS PROPERTY OF AUTANI CORPORATION AND SHALL NOT BE DISCLOSED, DISTRIBUTED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AUTANI CORPORATION.					
PROJECT NAME			7170 RIVERWOOD DRIVE SUITE B, COLUMBIA, MD 21046		
SAMPLES			TITLE		
LOCATION			AUTANI LIGHTING ONE-LINE DIAGRAM SAMPLE APPLICATION		
SYSTEM		JOB NUMBER		SIZE	DWG. NO.
APP		APPLICATIONS		B	ARC-OL-2003-O
SCALE: N.T.S.		DO NOT SCALE TO DRAWING		SHEET	1 OF 1