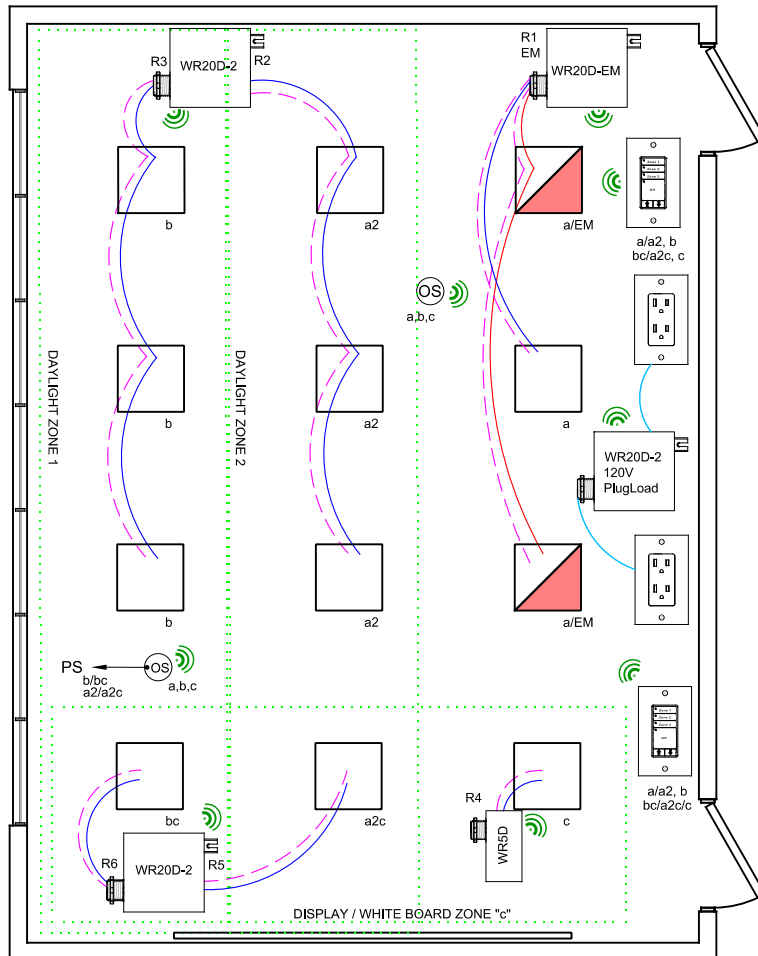


# CLASSROOM

## ASHRAE DESIGN GUIDE 90.1 - 2013

### 4-Zone Control WR20D-2, WR20D-EM, Plug Load Wireless-Direct-Link



WIRE LEGEND	
	Power 120/277
	Emergency Lighting
	120V Plug Load
	0-10V Dimming
	ILC 915Mhz radio

Bill Of Material:		
Qt:	Product:	Description:
3	WR20D-2	Wireless 20Amp, 2-load dimming relay
1	WR20D-EM	Wireless 20Amp, Emergency relay with dimming
1	WR5D	Wireless 5Amp dimming relay
1	LSG3-W-WH-3-MZD	LightSync G3 Wireless 3-Zone dimming digital switch station.
2	WCS-DT-10	Wireless Ceiling Sensor Dual Tech - 1000sf with daylight dimming photo sensor

**OVERVIEW:**

Wireless devices are wireless-direct-linked to the control relay. Standard switch and sensor control operations are automatic.

**RADIO DISTANCE:**

Wireless radio distance is 100 feet line-of-sight. Radio distance is reduced through a standard construction wall, brick walls will reduce range further. Steel wall coverings, doors, and obstacles such as HVAC steel vent ducts or steel enclosures will block the radio signal.

**SEQUENCE OF OPERATION:**

Lights turn on at digital switch station. Occupancy sensor input set for Vacancy-off control, can be changed to on/off with adjustable dimer start level per zone. Dimmer outputs provide smooth full range control. Digital switch station provides individual zone on/off control and selectable zone dimming, plus dimming for all zones as one. Photo Sensor monitors daylight and limits the maximum light level in the daylight zone, multiple zones can be controlled from one sensor with independent level settings for each.

**ADDITIONAL OPTIONS:**

Wireless devices can be linked to a LLEVO-W wireless controller for networking the controls.

**CODE REQUIREMENTS SUPPORTED:**

- Auto-Off from Occupancy sensor
- Multi-Level Dimming control
- Multi-Level Daylight control
- Local Switch control w/dimming