

Controls Details for Expo Halls A & B including accessory buildings/spaces attached

The materials required to complete the Hubbell controls portion of the project are included below

Qty.	Type	MFG Part
94	IFM PHBA	WIH-IM-1RD1277
15	SMRT PAK PHBA	WIH-SP-1RD-1277
3	SWTCH OO PHBA	WIH0SW-OO-WH
3	SWTCH PRE PHBA	WIH-SW-PRESET-WH
3	SINGLE PHBA	WIH-WP-1G-WH
13	GANG PHBA	WIH-WP-3G-WH
1	ACCESS PHBA	WIH-AP
16	WASP PHBA	WSP-SM-UNV/WSPLENS-360
1	CMMSSION PMAL	COMMISSIONING/TRAINING

All wiring, low voltage and otherwise, and material is to be provided and installed by contractor.

Occupancy sensors to turn lights on when movement detected, lights to remain on if set to the on position.

Halls A and B are a combined system using the Hubbell Wi-Fi product.

The Dairy Barn and West hall are stand alone Hubbell systems.

Hall A has additional office areas that are not listed below, but are included in the quantities above and listed in the spreadsheet.

1. Hall A

- a. Panel – 1HA
 - i. 8 Circuits total to be controlled, no wall unit is required
 - ii. Circuit #1 to have occupancy sensor, located at entrance to hall from Lobby.
 - iii. Circuit #13 to have occupancy sensor, located at the West entrance
 - iv. The “east Hall” has three circuits controlling the lighting with switches, replace with wall station with on off control only.
- b. Panel - 1G – NE
 - i. 18 circuits to be controlled
 - ii. Wall Station to include 10 presets and located near the panel, with a lockable cover.
 - iii. Circuit #17 to have two occupancy sensors, one located facing roll up door A and one facing the entrance from C hall.

2. Hall B

- a. Panel - DF2
 - i. 40 circuits total to be controlled
 - ii. Wall station to have 10 key preset, located outside of the electrical room with lockable cover
 - iii. Circuit #4 to have occupancy sensor, facing roll up door between halls
 - iv. Circuit #2 to have occupancy sensor
 - v. Circuit #30 to have occupancy sensor, located at roll up door on West end of hall facing East
 - vi. Circuit #32 to have occupancy sensor, located at the end of the circuit facing West.

- vii. Circuit #32 and #30 have a combined occupancy sensor in middle of each facing both east and west.
- viii. Circuit #9 to have 2 occupancy sensors, located facing the “dairy barn” and Hall C
- b. Panel – 1R NW Left
 - i. 10 circuits total to be controlled, no wall station required
 - ii. Circuit #10 to have occupancy sensor facing West Hall.

3. West Hall - this space is controlled independently of the halls

- a. Panel – DF4
 - i. 18 circuits total to be controlled
 - ii. Wall Station to have 4 presets, located near panel on wall
 - iii. Circuit #5 to have an occupancy sensor, located between the man door and roll up door facing east.

4. Dairy Barn

- a. Panel - DF5
 - i. 1 circuit total to be controlled (#25)
 - ii. 3 occupancy sensors to be installed, one installed at the man door and one at each of the two roll up doors.