

**Floor Plan:  
The BIG Fancy Restaurant**

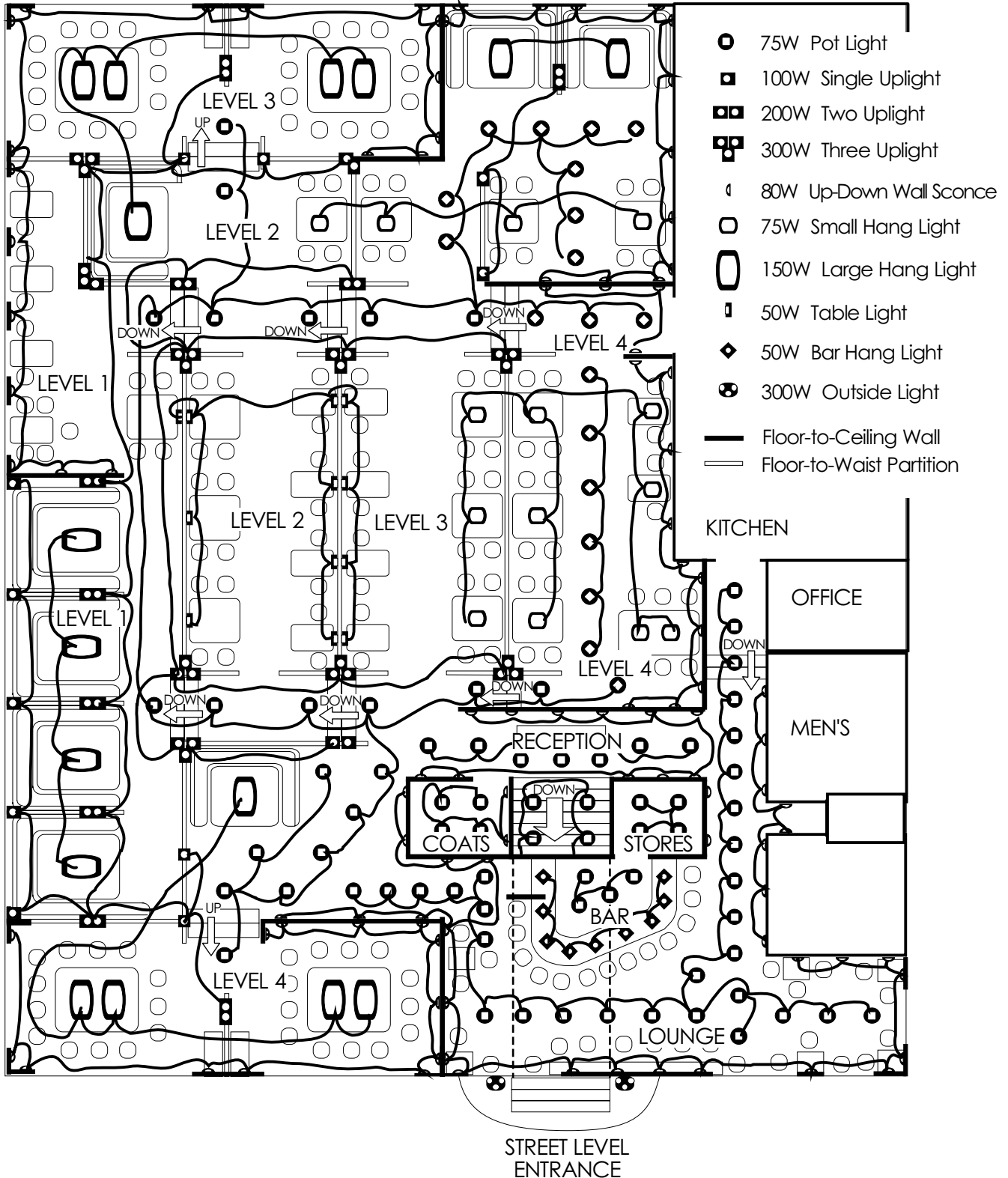
## PROJECT DESCRIPTION

- A large, 200 seat, 2nd floor restaurant has windows on three sides (east, south and west) and is accessed by a staircase from street level. The windows provide excellent views and the restaurant is constructed in levels to provide a view from each table. The restaurant serves both lunch and dinner.
- In the daytime, there is a lot of natural light. It is desired to only accent various architectural features during the day. Uplights are set to high light levels to highlight the features of the restaurant.
- In the evening, the remainder of the lights are turned ON and the uplights are dimmed to provide the correct ambiance.

## LIGHTING CONTROLS

- There are three main areas in the restaurant, and each of these areas shall have a separate control station with sliders, ON/OFF buttons and preset buttons. (Refer to the *Dimming System Schedule* on page 3 for the locations of the control stations.)
- The lighting controls are to automatically function as follows:
  - 1. 6:00 am**
    - Lights on full for janitorial and lunch setup.
  - 2. 1/2 hour before lunch opening**
    - Lights adjust to daytime level lighting pattern;
    - Restaurant area lit with bright uplights and sconces;
    - Bar area lit brightly with wall sconces;
    - Lobby area lit brightly with all lights.
  - 3. Sunset**
    - Lights adjust to evening level lighting pattern;
    - Since the restaurant is occupied by customers, the transition from daytime to evening lighting patterns must be gradual.
  - 4. Late night**
    - After the restaurant is closed and vacated, all the lights are to be shut off automatically in case any were left on by mistake.
- The automatic controls function by preset signals in each area. The presets are all accessible to users and are all programmable from the respective control stations located in the restaurant.

## Reflected Ceiling Plan: BIG Fancy Restaurant



## DIMMING SYSTEM SCHEDULE

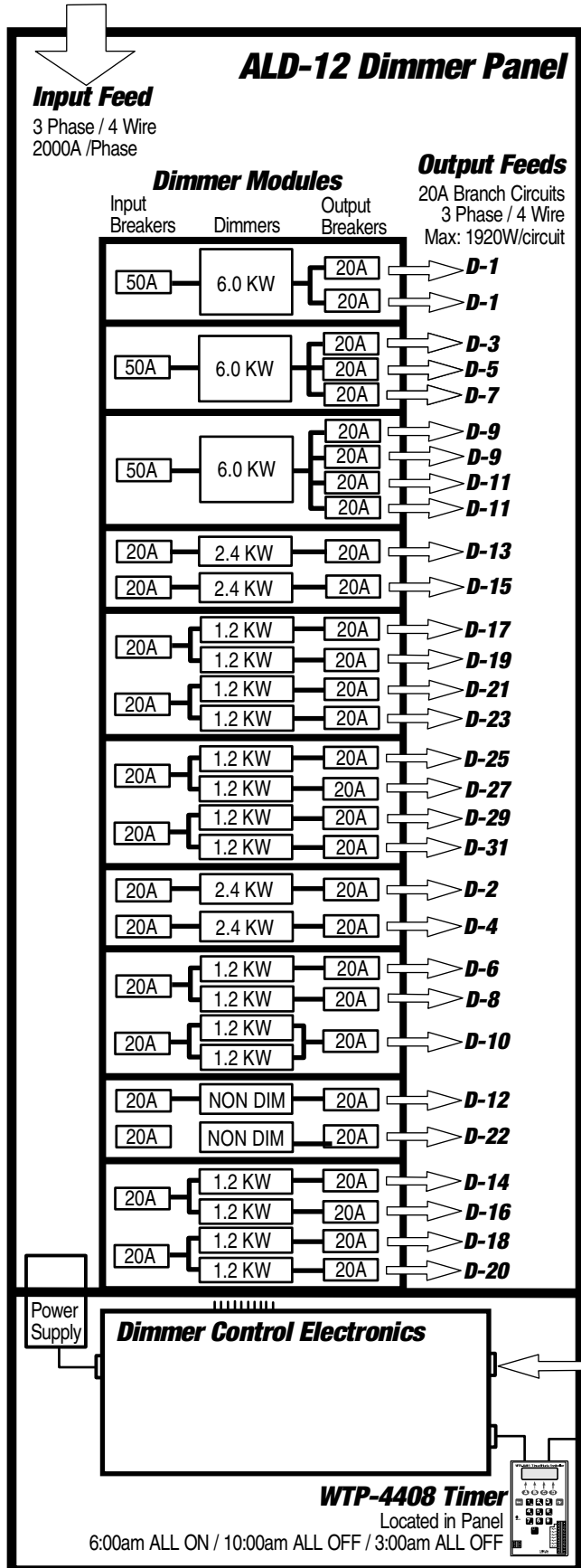
- A complete Dimming System Schedule is necessary to define the project with enough detail so that a quote can be calculated.
- Use the Reflected Ceiling Plan (example on previous page) to guide you with completing the Dimmer System Schedule.

### STEP 1 List Rooms and Sliders

### STEP 2 List Lighting Circuits

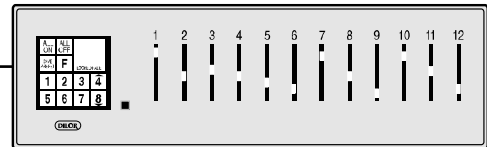
### STEP 3 List Control Stations

ROOM NAME	SLIDER NUMBER	CIRCUIT NAME	CIRCUIT NUMBER	CIRCUIT WATTAGE	CONTROL STATIONS
Restaurant Area	1	All Pot Lights	D - 1	32x75W = 2400W	<u>Restaurant Area Control Station</u> -Locate at N kitchen entrance. -Station has presets, ON/OFF, 12 sliders.  <u>Circuits D-1, D-9, D-11</u> -Each split into 2 circuits (NEC limit of 1920W).  <u>Photo Cell Control</u> -Locate indoors in discreet location. -Signals evening lighting preset. -Preset to have slow fade rate (>20 min).  <u>Timer Control</u> -Locate inside dimmer panel. -Signals automatic functions, per separate schedule.
	1		D - 1		
	2	SW Sconces	D - 3	14x80W = 1120W	
	2	NW Sconces	D - 5	13x75W = 975W	
	2	SE Sconces	D - 7	13x80W = 1040W	
	3	Perimeter Uplights	D - 9	29x100W = 2900W	
	3		D - 9		
	3	Center Uplights	D - 11	27x100W = 2700W	
	3		D - 11		
	3	NW Uplights	D - 13	4x100W = 400W	
	4	NW Hang Lights	D - 15	2x150W = 300W	
	5	S Hang Lights L-2,3	D - 17	5x150W = 750W	
	6	SW Hang Lights	D - 19	4x75W = 300W	
	7	Center Sconces L-4	D - 21	10x80W = 800W	
	8	Center Pot Lights L-4	D - 23	6x75W = 450W	
9	Center Hang Lights L-3,4	D - 25	10x75W = 750W		
10	Center Table Lights L-1,2,3	D - 27	12x75W = 900W		
11	Center Hang Lights L-1	D - 29	4x150W = 600W		
12	SE Hang Lights	D - 31	5x150W = 750W		
Bar Area	1	Sconces	D - 2	19x80W = 1520W	<u>Bar Area Control Station</u> -Locate in bar stores room. -Station has presets, ON/OFF, 6 sliders. -#6: no dimming, ON/OFF only.
	2	Pot Lights	D - 4	25x75W = 1875W	
	3	Bar Hang Lights	D - 6	8x75W = 600W	
	4	Bar Pot Lights	D - 8	4x75W = 300W	
	5	N Sconces	D - 10	8x80W = 640W	
	6	Storage	D - 12	4x75W = 300W	
Lobby Area	1	Sconces	D - 14	11x80W = 880W	<u>Lobby Area Control Station</u> -Locate in bar stores room. -Station has presets, ON/OFF, 5 sliders. -#5: no dimming, ON/OFF only.
	2	Pot Lights	D - 16	7x75W = 525W	
	3	Stair Pot Lights	D - 18	14x75W = 1050W	
	4	Ext Entrance Lights	D - 20	2x300W = 600W	
	5	Coat Check	D - 22	4x75W = 300W	



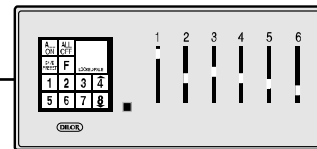
## SYSTEM ONE-LINE DIAGRAM

- Upon receipt of a completed Dimming System Schedule, Dilor can produce a System One-Line Diagram that shows the Dimmer Panel, the Control Stations and the Peripheral Controls.
- This diagram is a very useful guide to what will be supplied. It should be studied carefully. Then, If alterations, additions or deletions are needed, notify Dilor for a revised drawing and bill of material.



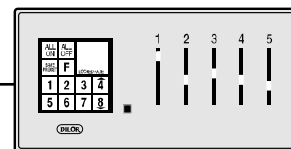
### ALC3-12 Restaurant Control Station

- Located by north kitchen entrance.
- 12 sliders and 8 pre-set controls (expandable to 64).
- ALL ON & ALL OFF Buttons.
- Can be activated by remote control.



### ALC3-06 Lobby Control Station

- Located in bar stores room.
- 6 sliders and 8 pre-set controls (expandable to 64 presets).
- ALL ON & ALL OFF Buttons on each.
- Can be activated by remote control.



### ALC3-05 Bar Area Control Station

- Located in bar stores room, directly below Lobby Control Station.
- 5 sliders and 8 pre-set controls (expandable to 64 presets).
- ALL ON & ALL OFF Buttons on each.
- Can be activated by remote control.

### WPS-5621 Indoor Photo Sensor



- Located near south window.
- Mounted on ceiling.
- Connected to Timer.
- Wires Pulled for all possible combinations of controls.
- Sunset signal activates evening preset.

**Dimmer Panel**

1 ALD-12 Dimmer Panel, 12 Dimmer Module Capacity

**Dimmer Modules**

3 ALD-160 Dimmer Module, Single 6.0 kw Dimmer  
 2 ALD-224 Dimmer Module, Twin 2.4 kw Dimmer  
 4 ALD-412 Dimmer Module, Quad 1.2 kw Dimmer  
 1 ALD-224-ND Dimmer Module, Twin 2.4 kw NON-Dim  
 30 ALD-BKR-20 20A Output Circuit Breakers

**Dimmer Control Electronics**

1 ALC3-DCE-36 ALC3 Dimmer Control Electronics, 36 dim lines

**Control Stations**

1 ALC3-12 Master Station, Preset activation & 12 Sliders  
 1 ALC3-06 Master Station, Preset activation & 6 Sliders  
 1 ALC3-05 Master Station, Preset activation & 5 Sliders

**Controls - Auxiliary**

1 WTP-4408 8-Output Time/Photo Clock  
 1 WPC-5621 Daylight Sensor, Ceiling Mounted

**Extra Items**

1 WN-7788 Hinged Cover (for 12-Slider Control Station)

### **Materials List for 'BIG Fancy Restaurant' Quote**

**SPECIAL POINTS TO NOTE**

- In many cases, certain items are noticed when preparing the quotation that would be important to the specifier and/or buyer. They will be noted in the Approval Submittals.
- As an example, for the 'BIG Fancy Restaurant', it appears that the dimming control station to be located by the kitchen entrance may be vulnerable to impact from food trays carried by restaurant staff. It will be noted in the submittals that a hinged cover with a lockable latch should be installed over this control station

**MATERIALS LIST**

- Along with the System One-Line Diagram (example shown on previous page) a Materials List is provided when submitting the Quotation.
- If extra items are noted in the 'Special Points to Note' section of the One-Line Diagram, they will be listed in a separate entry in the Materials List.

**PRICE & DELIVERY**

- All quoted prices do not include sales tax.
- Please allow 4-6 weeks for manufacturing time plus 1 week for shipping.

**MANUFACTURING**

- Upon receipt of the purchase order, the Quotation is sent to Engineering at the factory. Engineering will prepare drawings for manufacture. These drawings will address items such as phase balancing of the loads. During the drawing phase, our staff may contact the installer and/or the Project Engineer for clarifications.
- The drawings will be sent to the customer for final approval. Only upon approval can the pre-assembly of the dimmer panel proceed. All of the internal panel circuiting is done at the factory, and can be modified in the field, if necessary. After assembly, the dimmer panel must pass a full function and power test before leaving the factory.

**SHIPPING**

- Dimmer panels are shipped in shipping crates to prevent damage. Full dimmer panel crates are heavy (200 to 400 lbs.). Crate handles are provided and crate feet allow the use of a forklift. Some dimmer panel components are fragile: take care not to drop the crate.