

**GENERAL ELECTRICAL NOTES**

- A. WHERE THE MECHANICAL DESIGN UTILIZES A FLENUM RETURN AIR CEILING DESIGN, ALL EQUIPMENT AND MATERIALS INSTALLED WITHIN THE FLENUM RETURN CEILING MUST MEET THE FLAME SPREAD AND SMOKE DEVELOPED RATINGS OF 25/00 AND BE APPROVED FOR USE IN FLENUM RETURN CEILINGS. COORDINATE FLENUM CEILING LOCATIONS WITH THE MECHANICAL CONTRACTOR. LUMINAIRES THAT ARE MANUFACTURED WITH A METAL HOUSING MEET THIS REQUIREMENT AND ARE NOT REQUIRED TO BE FLENUM RATED UNLESS INDICATED OTHERWISE.
- B. COORDINATE ALL DEVICE LOCATIONS AND CIRCUIT ROUTING WITHIN ANY MILLWORK WITH MILLWORK VENDOR PRIOR TO ROUGH-IN.
- C. SEE PANEL SCHEDULES FOR INFORMATION ON CIRCUITS THAT ARE TO BE ROUTED THROUGH CONTACTORS OR RELAYS FOR CONTROL.
- D. CIRCUITS SERVING EMERGENCY LIGHTING EQUIPMENT SUCH AS EMERGENCY BATTERIES SHALL NOT SHARE A NEUTRAL (SHALL NOT BE PART OF A MULTIWIRE BRANCH CIRCUIT) WITH ANY OTHER CIRCUIT. PROVIDE A SEPARATE NEUTRAL FOR EVERY CIRCUIT THAT SERVES EMERGENCY LIGHTING EQUIPMENT.
- E. ALTHOUGH NOT SPECIFICALLY SHOWN, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED LOW VOLTAGE WIRING AND DATA CABLING, PER THE MANUFACTURER'S RECOMMENDATIONS, FOR A COMPLETE, FUNCTIONAL LIGHTING CONTROL SYSTEM.
- F. ALTHOUGH NOT SPECIFICALLY SHOWN, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED WIRING AND DATA CABLING, INCLUDING ALL 0-10V CONTROL WIRING WHERE APPLICABLE, PER THE MANUFACTURER'S RECOMMENDATIONS FOR A COMPLETE, FUNCTIONAL DIMMING SYSTEM.
- G. PROVIDE ON SITE TRAINING WITH OWNER AND MANAGER AFTER SYSTEM IS INSTALLED AND OPERATIONAL. TECHNICIAN SHALL ASSIST OWNER IN SETTING UP PRESETS.
- H. CLEARLY LABEL LIGHTING ZONE IN EACH CONTROLLER. LIGHT LEVEL OF ANY ZONE MUST BE ADJUSTABLE BY OPERATION OF RESPECTIVE ZONE CONTROLS AT ANY TIME. ZONES WILL RETURN TO PRESET LEVELS WHEN THE NEXT PRESET BUTTON IS PUSHED.
- I. CHANGING PRESET LEVELS MUST BE DONE PER THE MANUFACTURER'S INSTRUCTIONS. (PRESS AND HOLD THE RESET BUTTON YOU WISH TO SET/CHANGE UNTIL FLASHES. MAKE CHANGES TO THE LIGHT LEVELS, PRESS BUTTON AGAIN TO STORE SETTINGS.)

- J. PRESET ZONES SHALL BE ACTIVE IN MASTER CONTROL PANEL.
- K. VERIFY EXACT PART/MODEL NUMBER OF EACH COMPONENT AND ALL NECESSARY MATERIALS AS REQUIRED FOR A FULLY INSTALLED OPERABLE LIGHTING CONTROL DIMMING SYSTEM WITH COOPER CONTROLS, MATH REFRIGER PRIOR TO BID.
- L. PROVIDE A SEPARATE NEUTRAL PER CIRCUIT INTO DIMMER CASINET.
- M. LOW VOLTAGE WIRING SHALL BE 20 AWG, 4 CONDUCTORS, BELDEN #402 SHIELDED COBIE.
- N. ALL WIRING MUST BE FULLY VERIFIED BEFORE APPLYING POWER.
- O. DO NOT MIX LOAD TYPES.
- P. THE UNIVERSAL SOURCE CONTROLLERS MUST BE MOUNTED FLUSH WITH THE WALL. DO NOT RECESS THE CHASSIS.

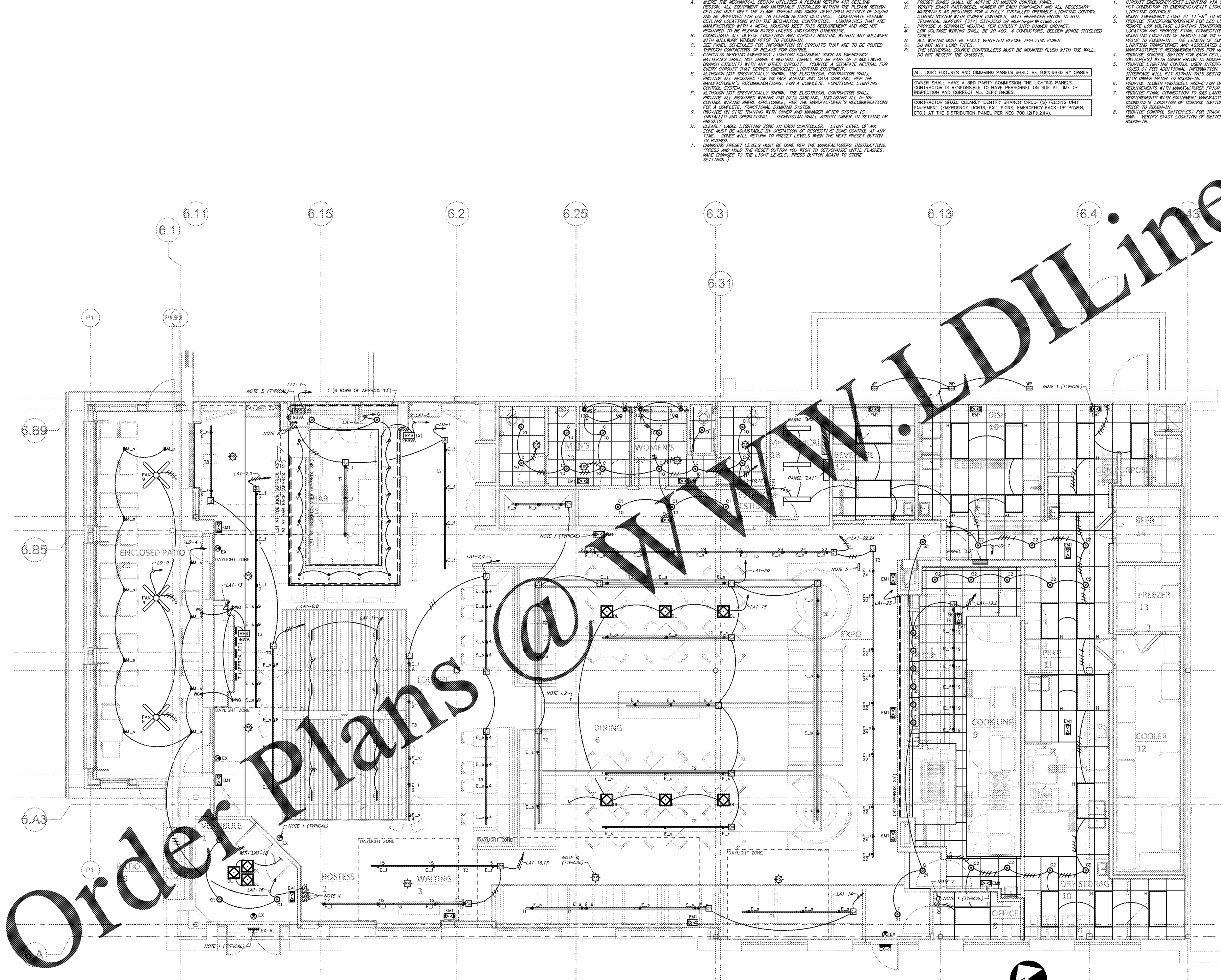
ALL LIGHT FIXTURES AND DIMMING PANELS SHALL BE FURNISHED BY OWNER.

OWNER SHALL HAVE A 3RD PARTY COMMISSION THE LIGHTING PANELS. CONTRACTOR IS RESPONSIBLE TO HAVE PERSONNEL ON SITE AT TIME OF INSPECTION AND CORRECT ALL DEFICIENCIES.

CONTRACTOR SHALL CLEARLY IDENTIFY BRANCH CIRCUIT(S) FEEDING UNIT EQUIPMENT (EMERGENCY LIGHTS, EXIT SIGNS, EMERGENCY BACK-UP POWER, ETC.) AT THE DISTRIBUTION PANEL PER NEC 700.12(C)(2)(4).

**KEYED NOTES**

1. CIRCUIT EMERGENCY/EXIT LIGHTING VIA CIRCUIT LD-16. PROVIDE A CONSTANT HOT CONDUCTOR TO EMERGENCY/EXIT LIGHT FIXTURE AHEAD OF ALL LOCAL LIGHTING CONTROLS.
2. MOUNT EMERGENCY LIGHT AT 11'-6" TO BOTTOM OF BEAM.
3. PROVIDE TRANSFORMER/DRIVER FOR LED LUMINAIRE. INSTALL THIS LUMINAIRE'S REMOTE LOW VOLTAGE LIGHTING TRANSFORMER IN AN INCONSPICUOUS, ACCESSIBLE LOCATION AND PROVIDE FINAL CONNECTION TO LUMINAIRE. COORDINATE MOUNTING LOCATION OF REMOTE LOW VOLTAGE LIGHTING TRANSFORMER WITH OWNER PRIOR TO ROUGH-IN. THE LENGTH OF CONDUCTORS BETWEEN REMOTE LOW VOLTAGE LIGHTING TRANSFORMER AND ASSOCIATED LUMINAIRE SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS FOR MAXIMUM CONDUCTOR LENGTH.
4. PROVIDE CONTROL SWITCH FOR EACH CEILING FAN. VERIFY EXACT LOCATION OF SWITCHES) WITH OWNER PRIOR TO ROUGH-IN.
5. PROVIDE LIGHTING CONTROL USER INTERFACE: TSD-SS-SS-WA. SEE DETAIL 10.5.2.1 FOR ADDITIONAL INFORMATION. CONFIRM LIGHTING CONTROL USER INTERFACE WILL FIT WITHIN THIS DESIGNATED AREA. VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
6. PROVIDE ILLUMIN PROTOCOL: NS3-C FOR DAYLIGHT ZONE. VERIFY EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
7. PROVIDE FINAL CONNECTION TO GAS LANTERN JACKET. COORDINATE ALL REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN AND COORDINATE LOCATION OF CONTROL SWITCH WITH THE OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
8. PROVIDE CONTROL SWITCHES) FOR TRACK LIGHTING AND WATERFALL DISPLAY AT BAR. VERIFY EXACT LOCATION OF SWITCHES) WITH OWNER PRIOR TO ROUGH-IN.



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