

1. MEP SPECIFICATIONS SHALL APPLY TO ALL WORK SHOWN ON THIS DRAWING UNLESS OTHERWISE NOTED.
2. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR THE EXACT LOCATION OF ALL LIGHTING FIXTURES.
3. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL JUNCTION BOXES IN THE JUNCTION BOX GRID AND AVAILABILITY OF ALL CIRCUITS INDICATED TO BE USED.
4. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING EQUIPMENT PRIOR TO CONSTRUCTION. PROVIDE CIRCUIT TRACING AS REQUIRED TO DETERMINE CIRCUIT AVAILABILITY. PROVIDE A WRITTEN REPORT TO ENGINEER AND BUILDING MANAGEMENT SHOWING LIGHTING LOCATIONS AND CIRCUIT NUMBER USED.
5. ALL UNUSED WIRING IS TO BE REMOVED BACK TO SOURCE UNLESS NOTED OTHERWISE.
6. EGRESS AND EXIT LIGHT FIXTURES SHALL BE CONNECTED TO UNSWITCHED HOT CONDUCTOR WITH 2#10/1/2"C.
7. ALL LIGHTING FIXTURES, LAMPS AND EXIT SIGNS SHALL MATCH BANK STANDARD UNLESS OTHERWISE NOTED.
8. CONTRACTOR SHALL REFER TO BUILDING MANAGEMENT'S "RULES AND REGULATIONS" TO COMPLY WITH BUILDING STANDARDS.
9. LIGHTING FIXTURES SHALL BE PROTECTED TO COMPLY WITH THE BUILDING FLOOR/CEILING FIRE RATED ASSEMBLY.
10. FOR RETURN AIR PLENUMS, ALL MATERIALS LOCATED WITHIN A RETURN AIR PLENUM SHALL BE RATED AND APPROVED FOR INSTALLATION IN A RETURN AIR PLENUM.

### ELECTRICAL POWER GENERAL NOTES:

1. MEP SPECIFICATIONS SHALL APPLY TO ALL WORK ON THIS DRAWING UNLESS OTHERWISE NOTED.
2. REFER TO ARCHITECT FOR EXACT HEIGHT AND LOCATION OF ALL FLOOR AND WALL OUTLETS.
3. ALL DATA/TELEPHONE OUTLETS SHALL BE PROVIDED WITH PULL STRINGS.
4. CONTRACTOR SHALL LOCATE ALL ELECTRICAL & TELEPHONE OUTLETS WITHIN THE LIMITS OF THE TENANT FURNITURE PLAN PROVIDED BY THE ARCHITECT. CONTRACTOR SHALL MARK INTENDED LOCATION OF ALL OUTLETS PRIOR TO INSTALLATION, THEN SHALL NOTIFY TENANT FOR APPROVAL BEFORE PROCEEDING.
5. CONTRACTOR SHALL PROVIDE NEW CIRCUIT DIRECTORY CARD AT PANELS. CIRCUITS SHALL BE LABELED TO CORRESPOND TO THE CIRCUITS SHOWN ON THE DRAWINGS. CONTRACTOR SHALL CONNECT CIRCUITS AS REQUIRED TO COMPLY WITH THIS DRAWING.
6. CONDUCTORS SHALL BE #12 AWG SOLID COPPER (THN) IN 1/2" CONDUIT UNLESS OTHERWISE INDICATED.
7. ALL OUTLETS TO BE MOUNTED VERTICALLY UNLESS OTHERWISE INDICATED.
8. CONTRACTOR SHALL PROVIDE ONE PULL STRING FOR EACH VOICE OR DATA OUTLET SHOWN. WHEN VOICE AND DATA OUTLETS ARE SHOWN ADJACENT, CONTRACTOR SHALL PROVIDE ONE PULL STRING (WITH ONE WALL PENETRATION) FOR THE PAIR, UNLESS NOTED OTHERWISE. VOICE AND DATA LINES SHALL BE PULLED BY OTHERS.
9. CONTRACTOR SHALL REFER TO BUILDING MANAGEMENT'S "RULES AND REGULATIONS" TO COMPLY WITH BUILDING STANDARDS.
10. GANG TOGETHER, ALL NEW ELECTRICAL, TELEPHONE AND COMPUTER OUTLETS SHOWN ADJACENT TO EACH OTHER.
11. VERIFY FINAL LOCATIONS FOR ROUGH-INS WITH FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED.
12. COORDINATE THE INSTALLATION OF ELECTRICAL MATERIALS AND EQUIPMENT ABOVE CEILINGS WITH MECHANICAL SYSTEM, MECHANICAL EQUIPMENT AND SYSTEMS, AND STRUCTURAL COMPONENTS. COORDINATE ELECTRICAL EQUIPMENT AND MATERIALS INSTALLATION WITH OTHER BUILDING COMPONENTS.
13. VERIFY MECHANICAL EQUIPMENT SWITCH AND CONNECTION REQUIREMENTS, ITEM BY ITEM, WITH THE MECHANICAL CONTRACTOR, BEFORE WIRING EQUIPMENT. RESOLVE ALL DISCREPANCIES WITHOUT FURTHER COST TO OWNER.
14. FOR RETURN AIR PLENUMS, ALL MATERIALS LOCATED WITHIN A RETURN AIR PLENUM SHALL BE RATED AND APPROVED FOR INSTALLATION IN A RETURN AIR PLENUM.

1. PARTIAL INTERIOR LIGHTS CONTROLLED BY MOTION SENSORS AS SHOWN, U.O.N.
2. TIMECLOCK TO BE INTERMATIC ET2845C SERIES WITH FOUR INDEPENDENT CIRCUITS AND HOLIDAY FUNCTION.  
TIME CLOCK FEATURES:
  - A. 365-DAY PROGRAMMABLE CLOCK WITH 48 ON/48 OFF FEATURES.
  - B. AUTOMATIC DAYLIGHT SAVING TIME (DST) ON/OFF ADJUSTMENT.
  - C. NON-VOLATILE EEPROM MEMORY FOR LIFETIME PROGRAMMING PROTECTION.
  - D. 100-HOUR SUPERCAPACITOR ELIMINATES BATTERY DEPENDENCY.
  - E. 50 HOLIDAY BLOCKS WITH SCHEDULES.
3. PROVIDE INTERMATIC MODEL #EI235W 2-HOUR ELECTRONIC COUNTDOWN TIMER SWITCH IN PARALLEL CONNECTION FOR OVERRIDE WHERE NOTED.
4. PROVIDE CONTACTORS AS NEEDED.
5. CIRCUITS TO BE CONTROLLED BY TIMECLOCK OUTPUT WITH 2-HOUR TIMED OVERRIDE SWITCH:  
A-4
4. CIRCUITS TO BE CONTROLLED BY TIMECLOCK OUTPUT:  
A-12, A-16, A-36
5. CIRCUITS TO BE CONTROLLED BY PHOTOCELL RECEPTORS:  
A-6, A-8,10, B-27, B-29.

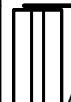
| SYMBOL | DESCRIPTION                                                                                                                                                                                                                                                                                        |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | CONDUIT RUN CONCEALED IN WALLS OR ABOVE CEILING. ARROW INDICATES HOMERUN TO PANEL. CONDUCTOR DESIGNATIONS ARE AS FOLLOWS: LONG HATCH INDICATES NEUTRAL, SHORT HATCH INDICATES PHASE, "1" INDICATES INSULATED OR ISOLATED GROUND, "2" INDICATES SWITCHLEG, AND NO HATCHES INDICATES TWO CONDUCTORS. |
|        | PARTIAL HOME RUN. SAME AS ABOVE.                                                                                                                                                                                                                                                                   |
|        | CONDUIT RUN CONCEALED IN FLOOR SLAB, BELOW FLOOR SLAB OR BELOW GRADE. WIRING SAME AS ABOVE.                                                                                                                                                                                                        |
|        | HATCHED LINES INDICATES FIXTURE CONNECTED TO BUILDING EMERGENCY CIRCUIT.                                                                                                                                                                                                                           |
| A      | 2'x4' FLUORESCENT FIXTURE. LETTER INDICATES FIXTURE TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR SPECIFICATIONS.                                                                                                                                                                                   |
| A      | 2'x2' FLUORESCENT FIXTURE. LETTER INDICATES FIXTURE TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR SPECIFICATIONS.                                                                                                                                                                                   |
| A      | UNDERCABINET FIXTURE. LETTER INDICATES FIXTURE TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR SPECIFICATIONS.                                                                                                                                                                                        |
| A      | DOWNLIGHT FIXTURE. LETTER INDICATES FIXTURE TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR SPECIFICATIONS.                                                                                                                                                                                           |
| A      | WALL WASHER FIXTURE. LETTER INDICATES FIXTURE TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR SPECIFICATIONS.                                                                                                                                                                                         |
|        | EXIT LIGHT. PROVIDE ARROWS AS INDICATED ON DRAWINGS.                                                                                                                                                                                                                                               |
|        | DUPLEX RECEPTACLE OUTLET; 20 AMP, 125V., 3 WIRE, GROUNDED TYPE.                                                                                                                                                                                                                                    |
|        | QUADRUPLER RECEPTACLE OUTLET GANGED WITH A COMMON WALL PLATE; (2)-20 AMP, 125V, 3 WIRE, GROUNDED TYPE.                                                                                                                                                                                             |
|        | DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT INTERRUPTER; 20 AMP, 125V., 3 WIRE GROUNDED TYPE.                                                                                                                                                                                                       |
|        | FLUSH MOUNTED FLOOR OUTLET W/ RECEPTACLE (S) AND OR DATA AND OR TELEPHONE.                                                                                                                                                                                                                         |
|        | COMBINATION TELEPHONE / DATA OUTLET.                                                                                                                                                                                                                                                               |
|        | TELEPHONE OUTLET.                                                                                                                                                                                                                                                                                  |
|        | DATA OUTLET                                                                                                                                                                                                                                                                                        |
|        | TELEPHONE TERMINAL BOARD, 4'x8'x3/4" PLYWOOD.                                                                                                                                                                                                                                                      |
|        | SINGLE POLE, SINGLE-THROW SWITCH; 20 AMP, 120/277V.                                                                                                                                                                                                                                                |
|        | 3-WAY SWITCH: 20 AMP, 120/277V.                                                                                                                                                                                                                                                                    |
|        | OCCUPANCY SENSOR SWITCH. LUTRON MS-B102, U.N.O.                                                                                                                                                                                                                                                    |
|        | VACANCY SENSOR SWITCH. LUTRON MS-B102, U.N.O.                                                                                                                                                                                                                                                      |
|        | DIMMER SWITCH. LUTRON MAESTRO SERIES.                                                                                                                                                                                                                                                              |
|        | JUNCTION BOX MOUNTED ABOVE ACCESSIBLE CEILING.                                                                                                                                                                                                                                                     |
|        | JUNCTION BOX                                                                                                                                                                                                                                                                                       |
|        | DISCONNECT IN A NEMA 1 ENCLOSURE, UNLESS OTHERWISE SPECIFIED. REFER TO DRAWINGS FOR AMPERAGE, PHASES, & FUSE SIZE. (IF REQUIRED)                                                                                                                                                                   |
|        | MOTOR STARTER / DISCONNECT IN A NEMA 1 ENCLOSURE, UNLESS OTHERWISE SPECIFIED. REFER TO DRAWINGS FOR AMPERAGE, PHASES, FUSE SIZE (IF REQUIRED), AND SIZE.                                                                                                                                           |
|        | TRANSFORMER - REFER TO DRAWINGS FOR VOLTAGE AND AMPERAGE.                                                                                                                                                                                                                                          |
|        | SURFACE PANELBOARD W/ NEC CLEARANCES; 120/208 VOLT.                                                                                                                                                                                                                                                |
|        | SURFACE PANELBOARD W/ NEC CLEARANCES; 277/480 VOLT.                                                                                                                                                                                                                                                |

**NOTES:** 1. ALL SYMBOLS MAY NOT BE USED ON THIS DRAWINGS.  
2. REFER TO SPECIFICATIONS FOR MOUNTING HEIGHTS

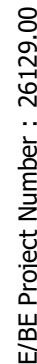
| SYMBOL                                                                              | DESCRIPTION                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | A SINGLE LEADER CORRESPONDS TO A SINGLE SWITCH FOR THAT LIGHTING CIRCUIT. THE SWITCH WILL HAVE A CORRESPONDING AND MATCHING DESIGNATION LETTER IF THERE ARE OTHER SWITCHES IN THE SAME ROOM.                                                   |
|  | MULTIPLE LEADERS CORRESPOND TO MULTIPLE SWITCHES FOR THAT LIGHTING CIRCUIT. THE QUANTITY OF LEADERS CORRESPONDS TO THE QUANTITY OF SWITCHES THAT CONTROL THAT CIRCUIT. THE SWITCHES WILL HAVE A CORRESPONDING AND MATCHING DESIGNATION LETTER. |

| MARK | CONTROL DESCRIPTION                          | CONTROL DEVICES                                                                                                                                                            | SEQUENCE OF OPERATION                                                                                                                                                                                                          |
|------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | WALL MOUNTED VACANCY SENSING                 | MS-B102 (DUAL-TECHNOLOGY WALL VACANCY SENSOR)                                                                                                                              | LIGHT FIXTURES IN THIS ROOM ARE TO BE MANUAL-ON/ AUTO-OFF CONTROLLED BY THE WALL MOUNTED VACANCY SENSOR SWITCH.                                                                                                                |
| 1C   | WALL MOUNTED OCCUPANCY SENSING               | MS-B102 (DUAL-TECHNOLOGY WALL OCCUPANCY SENSOR)                                                                                                                            | LIGHT FIXTURES IN THIS ROOM ARE TO BE AUTO-ON/ AUTO-OFF CONTROLLED BY THE WALL MOUNTED OCCUPANCY SENSOR SWITCH.                                                                                                                |
| 2B   | CEILING MOUNTED VACANCY SENSING              | PJ2-2B-GXX-L01 (WIRELESS REMOTE SWITCH)<br>LRF2-OCR2B-P (WIRELESS CEILING VACANCY SENSOR)<br>RMJS-16R-DV-B (RELAY POWER PACK WITH WIRELESS RECEIVER)                       | LIGHT FIXTURES IN THIS ROOM ARE TO BE MANUAL-ON/ AUTO-OFF CONTROLLED BY THE RELAY POWER PACK WITH WIRELESS RECEIVER; RECEIVING INPUTS FROM THE WIRELESS CEILING MOUNTED VACANCY SENSOR & THE WIRELESS REMOTE SWITCH.           |
| 2C   | CEILING MOUNTED OCCUPANCY SENSING            | PJ2-2B-GXX-L01 (WIRELESS REMOTE SWITCH)<br>LRF2-OCR2B-P (WIRELESS CEILING OCCUPANCY SENSOR)<br>RMJS-16R-DV-B (RELAY POWER PACK WITH WIRELESS RECEIVER)                     | LIGHT FIXTURES IN THIS ROOM ARE TO BE AUTO-ON/ AUTO-OFF CONTROLLED BY THE RELAY POWER PACK WITH WIRELESS RECEIVER; RECEIVING INPUTS FROM THE WIRELESS CEILING MOUNTED OCCUPANCY SENSOR & THE WIRELESS REMOTE SWITCH.           |
| 3    | WALL MOUNTED VACANCY SENSING WITH DIMMING    | MRF2S-8SD010 (PIR WALL VACANCY SENSOR WITH 0-10V DIMMING)                                                                                                                  | LIGHT FIXTURES IN THIS ROOM ARE TO BE MANUAL-ON/ AUTO-OFF CONTROLLED BY THE WALL MOUNTED VACANCY SENSOR SWITCH WITH DIMMING CAPABILITIES.                                                                                      |
| 4B   | CEILING MOUNTED VACANCY SENSING WITH DIMMING | PJ2-2BRL-GXX-L01 (WIRELESS REMOTE SWITCH WITH DIMMING)<br>LRF2-OCR2B-P (WIRELESS CEILING VACANCY SENSOR)<br>RMJS-8T-DV-B (0-10V DIMMING POWER PACK WITH WIRELESS RECEIVER) | LIGHT FIXTURES IN THIS ROOM ARE TO BE MANUAL-ON/ AUTO-OFF CONTROLLED BY THE DIMMING POWER PACK WITH WIRELESS RECEIVER; RECEIVING INPUTS FROM THE WIRELESS CEILING MOUNTED VACANCY SENSOR & THE WIRELESS DIMMING REMOTE SWITCH. |

## LIGHTING FIXTURE SCHEDULE

| TYPE                                                                                  | MANUFACTURER +<br>SERIES NUMBER                                  | MOUNTING | LAMP      | VOLTS | REMARKS                                                                             |
|---------------------------------------------------------------------------------------|------------------------------------------------------------------|----------|-----------|-------|-------------------------------------------------------------------------------------|
|                                                                                       |                                                                  |          | NO./TYPE  |       |                                                                                     |
|    | WILLIAMS P/N<br>FT-24-LS-8CS-AF-DIM-UNV 39W@3500K                | RECESSED | 38.9W LED | 120   | RECESSED CENTER BASKET LED 2X4 TROFFER.<br>0-10V DIMMING.                           |
|    | WILLIAMS P/N<br>FT-24-LS-8CS-AF-DIM-UNV 27W@3500K                | RECESSED | 27.3W LED | 120   | RECESSED CENTER BASKET LED 2X4 TROFFER.<br>0-10V DIMMING.                           |
|    | WILLIAMS P/N<br>4AR-L15/835-DIM-UNV-OM<br>-OF-CS-N-F1            | RECESSED | 17.2W LED | 120   | 4" RECESSED LED DOWNLHGT.<br>3500K. 1500LM. 0-10V DIMMING.                          |
|    | WILLIAMS P/N<br>4DR-TL-L10/835-DIM-UNV-OM<br>-OF-CS-N-F1         | RECESSED | 9W LED    | 120   | 4" RECESSED LED DOWNLHGT.<br>3500K. 1000LM. 0-10V DIMMING.                          |
|   | WILLIAMS P/N<br>4DR-TL-L15/835-DIM-UNV-OM<br>-OF-CS-N-F1         | RECESSED | 9W LED    | 120   | 4" RECESSED LED DOWNLHGT.<br>3500K. 1500LM. 0-10V DIMMING.                          |
|  | WILLIAMS P/N<br>96-4-L62/835-HIAFR-DIM-UNV                       | SURFACE  | 48W LED   | 120   | LINEAR LED LIGHT.<br>3500K. 0-10V DIMMING.                                          |
|  | PEMCO P/N<br>PM25CARLCA60W3KU5XPENXNFINISH                       | SURFACE  | 56.6W LED | 120   | DECORATIVE PENDANT LIGHT.<br>0-10V DIMMING.                                         |
|  | PEMCO P/N<br>PM25CARLCA60W3KU5XPENXNFINISH                       | SURFACE  | 56.6W LED | 120   | DECORATIVE PENDANT LIGHT.<br>0-10V DIMMING.                                         |
|  | PEMCO P/N<br>PMCARL3WMSET                                        | SURFACE  | 30.6W LED | 120   | DECORATIVE WALL SCONCE.                                                             |
|  | WILLIAMS P/N<br>4DR-TL-L20/835-DIM-UNV-OW<br>-OF-CS-WET1-CC-N-F1 | RECESSED | 20W LED   | 120   | 4" RECESSED LED DOWNLHGT.<br>3500K. 2000LM. 0-10V DIMMING. WET LOCATION.            |
|  | LSI P/N<br>MRM-LED-18L-SIL-FT-UNV-DIM-30<br>-70CRI-XX            | POLE     | 270W LED  | 120   | PARKING LOT POLE LIGHT.                                                             |
|  | LSI P/N<br>XWM-4-LED-12L-40-UE-XX                                | WALL     | 77W LED   | 120   | EXTERIOR WALL PACK.                                                                 |
|  | LSI P/N<br>XFLM-MF-LED-28-HO-CW-UE                               | GROUND   | 36W LED   | 120   | GROUND MOUNTED FLAG LIGHT.                                                          |
|  | LSI P/N<br>XIG                                                   | GROUND   | 19W LED   | 120   | GROUND MOUNT LANDSCAPE AND DIRECTIONAL SIGN.<br>LED. WET LOCATION.                  |
|  | WILLIAMS P/N<br>XWM-4-LED-12L-40-UE-XX                           | SURFACE  | < 5W LED  | 120   | PROVIDE WITH 90-MINUTE BATTERY BACK.<br>MATCH DIRECTIONAL ARROWS AS NOTED ON PLANS. |
|  | T.B.D.                                                           | SURFACE  | < 5W LED  | 120   | EMERGENCY EGRESS LIGHT WITH 90-MINUTE BATTERY PACK. NORMALLY OFF.                   |
|  | T.B.D.                                                           | SURFACE  | < 5W LED  | 120   | WET LISTED EMERGENCY EGRESS LIGHT WITH 90-MINUTE BATTERY PACK. NORMALLY OFF.        |

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SHEET NO

# E-0.10