

| ELECTRICAL LEGEND - ONE-LINE DIAGRAM | |
|--------------------------------------|---|
| | CABLE TERMINATOR/LUG |
| | TRANSFORMER |
| | DISCONNECT SWITCH |
| | FUSIBLE DISCONNECT SWITCH |
| | CIRCUIT BREAKER |
| | THERMAL MAGNETIC CIRCUIT BREAKER |
| | FUSE |
| | TRANSIENT VOLTAGE SURGE SUPPRESSOR OR SURGE PROTECTOR DEVICE |
| | GROUND - GROUND ROD, GROUNDING ELECTRODE, OR AT EARTH POTENTIAL |
| | INDICATING LIGHT |
| | MOTOR |
| | LOAD, MOTOR, # = HORSEPOWER |
| | ELECTRIC UTILITY METER BASE |
| | JUNCTION BOX WITH SPLICE |
| | EQUIPMENT, XXX = DEVICE DESCRIPTION |
| | GROUND BUS OR TERMINAL |
| | NEUTRAL BUS |
| | PANELBOARD WITH MAIN LUGS |
| | PANELBOARD WITH MAIN BREAKER |
| | FUSE PANEL WITH MAIN FUSE PULLOUT |
| | DUPLEX RECEPTACLE 120V SINGLE PHASE GROUNDING TYPE |
| | CONTROL STATION |
| | TRANSFER SWITCH |
| | ENGINE GENERATOR SET |

| ELECTRICAL LEGEND - SCHEMATIC | |
|-------------------------------|--|
| | NORMALLY OPEN (N.O.) CONTACT |
| | NORMALLY CLOSED (N.C.) CONTACT |
| | STARTER COIL, * = STARTER NUMBER |
| | OVERLOAD RELAY CONTACT |
| | CONTROL RELAY, * = CONTROL RELAY NUMBER |
| | RELAY, * = RELAY NUMBER |
| | TOGGLE SWITCH / 2 POSITION SWITCH |
| | 2-POSITION SELECTOR SWITCH |
| | 3-POSITION SELECTOR SWITCH (H-O-A SHOWN) |
| | 2 POLE DISCONNECT SWITCH |
| | 3 POLE DISCONNECT SWITCH |
| | PHOTOCELL |
| | TERMINAL BLOCK, * = TERMINAL NUMBER |
| | DEVICE TERMINAL, * = DEVICE TERMINAL NUMBER |
| | INTERNAL PANEL WIRING |
| | FIELD WIRING |
| | FUSE |
| | GROUND BUS OR TERMINAL |
| | NEUTRAL BUS |
| | GROUND, GROUND ROD, GROUND BUS |
| | INDUSTRIAL CONTROL RELAY OR LIGHTING CONTACTOR |
| | S1 CUTOUT HANDLE REMOVED |
| | S1 CUTOUT HANDLE INSERTED |
| | N.O. THERMAL SWITCH |
| | N.C. THERMAL SWITCH |
| | L-830 SERIES ISOLATION TRANSFORMER |

| ELECTRICAL ABBREVIATIONS | |
|--------------------------|---|
| A.F.F. | ABOVE FINISHED FLOOR |
| A, AMP | AMPERES |
| ATS | AUTOMATIC TRANSFER SWITCH |
| AWG | AMERICAN WIRE GAUGE |
| BKR | BREAKER |
| C | CONDUIT |
| CB | CIRCUIT BREAKER |
| CKT | CIRCUIT |
| CR | CONTROL RELAY |
| CU | COPPER |
| DPDT | DOUBLE POLE DOUBLE THROW |
| DPST | DOUBLE POLE SINGLE THROW |
| EM | EMERGENCY |
| EMT | ELECTRICAL METALLIC TUBING |
| ENCL | ENCLOSURE |
| EP | EXPLOSION PROOF |
| ES | EMERGENCY STOP |
| ETL | INTERTEK - ELECTRICAL TESTING LABS |
| ETM | ELAPSE TIME METER |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| GFI | GROUND FAULT INTERRUPTER |
| GND | GROUND |
| GRSC | GALVANIZED RIGID STEEL CONDUIT |
| HID | HIGH INTENSITY DISCHARGE |
| HOA | HAND OFF AUTOMATIC |
| HP | HORSEPOWER |
| HPS | HIGH PRESSURE SODIUM |
| J | JUNCTION BOX |
| KVA | KILOVOLT AMPERE(S) |
| KW | KILOWATTS |
| LC | LIGHTING CONTACTOR |
| LTFMC | LIQUID TIGHT FLEXIBLE METAL CONDUIT (UL LISTED) |
| LTG | LIGHTING |
| LP | LIGHTING PANEL |
| MAX | MAXIMUM |
| MCB | MAIN CIRCUIT BREAKER |
| MCM | THOUSAND CIRCUAR MIL |
| MDP | MAIN DISTRIBUTION PANEL |
| MFR | MANUFACTURER |
| MH | METAL HALIDE |
| MIN | MINIMUM |
| MLO | MAIN LUGS ONLY |
| NEC | NATIONAL ELECTRICAL CODE (NFPA 70) |
| NC | NORMALLY CLOSED |
| NO | NORMALLY OPEN |
| NTS | NOT TO SCALE |
| OHE | OVERHEAD ELECTRIC |
| OL | OVERLOAD |

| ELECTRICAL ABBREVIATIONS (CONTINUED) | |
|--------------------------------------|------------------------------------|
| PB | PULL BOX |
| PC | PHOTO CELL |
| PDB | POWER DISTRIBUTION BLOCK |
| PNL | PANEL |
| RCPT | RECEPTACLE |
| R | RELAY |
| S | STARTER |
| SPD | SURGE PROTECTION DEVICE |
| SPST | SINGLE POLE SINGLE THROW |
| TVSS | TRANSIENT VOLTAGE SURGE SUPPRESSOR |
| TYP | TYPICAL |
| UG | UNDERGROUND |
| UGE | UNDERGROUND ELECTRIC |
| UL | UNDERWRITER'S LABORATORIES |
| V | VOLTS |
| W/ | WITH |
| W/O | WITHOUT |
| WP | WEATHER PROOF |
| XFER | TRANSFER |
| XFMR | TRANSFORMER |

| AIRPORT EQUIPMENT/FACILITY ABBREVIATIONS | |
|--|---|
| ASOS | AUTOMATED SURFACE OBSERVING SYSTEM |
| ATCT | AIR TRAFFIC CONTROL TOWER |
| AWOS | AUTOMATED WEATHER OBSERVING SYSTEM |
| CCR | CONSTANT CURRENT REGULATOR |
| DME | DISTANCE MEASURING EQUIPMENT |
| FAR | FEDERAL AVIATION REGULATION |
| GS | GLIDE SLOPE FACILITY |
| HIRL | HIGH INTENSITY RUNWAY LIGHT |
| ILS | INSTRUMENT LANDING SYSTEM |
| IM | INNER MARKER |
| LIR | LOW IMPACT-RESISTANT |
| LOC | LOCALIZER FACILITY |
| MALS | MEDIUM INTENSITY APPROACH LIGHTING SYSTEM |
| MALSR | MEDIUM INTENSITY APPROACH LIGHTING SYSTEM WITH RUNWAY ALIGNMENT INDICATING LIGHTS |
| MIRL | MEDIUM INTENSITY RUNWAY LIGHT |
| MITL | MEDIUM INTENSITY TAXIWAY LIGHT |
| NDB | NON-DIRECTIONAL BEACON |
| PAPI | PRECISION APPROACH PATH INDICATOR |
| PLASI | PULSE LIGHT APPROACH SLOPE INDICATOR |
| RAIL | RUNWAY ALIGNMENT INDICATING LIGHTS |
| REIL | RUNWAY END IDENTIFIER LIGHT |
| RVR | RUNWAY VISUAL RANGE |
| VADI | VISUAL APPROACH DESCENT INDICATOR |
| VASI | VISUAL APPROACH SLOPE INDICATOR |
| VOR | VERY HIGH FREQUENCY OMNIDIRECTIONAL RANGE FACILITY |
| WC | WIND CONE |

NOTES:

- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 - NATIONAL ELECTRICAL CODE (NEC) MOST CURRENT ISSUE IN FORCE, THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES, AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE U.L. LISTING, ETL LISTING (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE WILL NOT BE PERMITTED.
- ALL VAULT WORK, POWER OUTAGES, AND/OR SHUT DOWN OF EXISTING SYSTEMS SHALL BE COORDINATED WITH THE AIRPORT MANAGER. ONCE SHUT DOWN, THE CIRCUITS SHALL BE LABELED AS SUCH TO PREVENT ACCIDENTAL ENERGIZING OF THE RESPECTIVE CIRCUITS. ALL PERSONNEL SHALL FOLLOW U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA) 29 CFR PART 1910 OCCUPATIONAL SAFETY & HEALTH STANDARDS FOR ELECTRICAL SAFETY AND LOCKOUT/TAGOUT PROCEDURES INCLUDING, BUT NOT LIMITED TO, 29 CFR SECTION 1910.147 THE CONTROL OF HAZARDOUS ENERGY (LOCKOUT/TAGOUT).
- COLOR CODE PHASE AND NEUTRAL CONDUCTOR INSULATION FOR NO. 6 AWG OR SMALLER. PROVIDE COLORED INSULATION OR COLORED MARKING TAPE FOR PHASE AND NEUTRAL CONDUCTORS FOR NO. 4 AWG AND LARGER. INSULATED GROUND CONDUCTORS SHALL HAVE GREEN COLORED INSULATION FOR ALL CONDUCTOR AWG AND/OR KCMIL TO COMPLY WITH NEC 250.119. NEUTRAL CONDUCTORS SHALL HAVE WHITE COLORED INSULATION FOR NO. 6 AWG AND SMALLER TO MEET THE REQUIREMENTS OF NEC 200.6. STANDARD COLORS FOR POWER WIRING AND BRANCH CIRCUITS SHALL BE AS FOLLOWS:

120/240 VAC. 1 PHASE. 3 WIRE
 PHASE A BLACK
 PHASE B RED
 NEUTRAL WHITE
 GROUND GREEN

480 VAC. 1 PHASE. 2 WIRE
 PHASE A BROWN
 PHASE B ORANGE
 GROUND GREEN
- SEE RESPECTIVE SITE PLANS FOR SITE LEGEND INFORMATION.
- LTFMC DENOTES LIQUID TIGHT FLEXIBLE METAL CONDUIT UL LISTED, SUNLIGHT RESISTANT, & SUITABLE FOR GROUNDING. LIQUID TIGHT FLEXIBLE METAL CONDUIT AND ASSOCIATED FITTINGS SHALL BE U.L. LISTED TO MEET THE REQUIREMENTS OF NEC 350.6. LIQUID TIGHT FLEXIBLE METAL CONDUIT THAT IS USED FOR FLEXIBILITY (INCLUDING CONNECTIONS TO CCR'S & TRANSFORMERS) SHALL REQUIRE AN EXTERNAL BONDING JUMPER OR INTERNAL EQUIPMENT GROUNDING CONDUCTOR PER NEC 350.60. EXTERNAL BONDING JUMPERS USED WITH CCR INSTALLATIONS SHALL BE #6 AWG COPPER (MINIMUM). DO NOT INSTALL LTFMC THAT IS NOT UL LISTED. CONFIRM LTFMC BEARS THE UL LABEL PRIOR TO INSTALLATION.
- ALL ENCLOSURES RATED NEMA 4, 4X SHALL HAVE WATERTIGHT HUBS AT CONDUIT ENTRANCES UL LISTED NEMA 4, 4X FOR THE RESPECTIVE ENCLOSURE, TO MAINTAIN THE NEMA 4, 4X RATING.
- HIGH VOLTAGE AND LOW VOLTAGE CIRCUITS SHALL NOT BE INSTALLED IN THE SAME WIREWAY, CONDUIT, DUCT, OR HANDHOLE.

| REVISION | DATE |
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LITCHFIELD MUNICIPAL AIRPORT
LITCHFIELD, ILLINOIS

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REALIGN
TAXIWAY "A"
ELECTRICAL LEGEND
AND ABBREVIATIONS