FIE	COTDICAL LECEND - ONE LINE DIACRAM
O	CTRICAL LEGEND - ONE-LINE DIAGRAM
***	CABLE TERMINATOR/LUG TRANSFORMER
	DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH
	CIRCUIT BREAKER
	THERMAL MAGNETIC CIRCUIT BREAKER
	FUSE
<b>‡</b>	TRANSIENT VOLTAGE SURGE SUPPRESSOR OR SURGE PROTECTOR DEVICE
*	GROUND — GROUND ROD, GROUNDING ELECTRODE, OR AT EARTH POTENTIAL
a	INDICATING LIGHT
(1)	MOTOR
•	LOAD, MOTOR, # = HORSEPOWER
0	ELECTRIC UTILITY METER BASE
•	JUNCTION BOX WITH SPLICE
XXX	EQUIPMENT, XXX = DEWCE DESCRIPTION
GND	GROUND BUS OR TERMINAL
S/N	NEUTRAL BUS
	PANELBOARD WITH MAIN LUGS
<b> </b>	Panelboard with main breaker
	Fuse Panel with main fuse pullout
	DUPLEX RECEPTACLE 120V SINGLE PHASE GROUNDING TYPE
	CONTROL STATION
N EM	TRANSFER SWITCH
	ENGINE GENERATOR SET

ELECTRICAL LEGEND — SCHEMATIC			
	NORMALLY OPEN (N.O.) CONTACT		
-14-	NORMALLY CLOSED (N.C.) CONTACT		
(9)	STARTER COIL, * = STARTER NUMBER		
<b>→}</b>	OVERLOAD RELAY CONTACT		
(R)	CONTROL RELAY, * = CONTROL RELAY NUMBER		
<b>₽</b>	RELAY, * = RELAY NUMBER		
5	TOGGLE SWITCH / 2 POSITION SWITCH		
OFF AUTO	2-Position selector switch		
HAND AUTO XOO OOX	3-POSITION SELECTOR SWITCH (H-O-A SHOWN)		
	2 POLE DISCONNECT SWITCH		
王	3 POLE DISCONNECT SWITCH		
<del>-</del>	PHOTOCELL.		
-0-	TERMINAL BLOCK, * = TERMINAL NUMBER		
	DEVICE TERMINAL, * = DEVICE TERMINAL NUMBER		
	INTERNAL PANEL WIRING		
	FIELD WIRING		
	FUSE		
GND	GROUND BUS OR TERMINAL		
S/N	NEUTRAL BUS		
青	GROUND, GROUND ROD, GROUND BUS		
0 0	INDUSTRIAL CONTROL RELAY OR LIGHTING CONTACTOR		
	S1 CUTOUT HANDLE REMOVED		
### ###	S1 CUTOUT HANDLE INSERTED		
2,7	N.O. THERMAL SWITCH		
J.	N.C. THERMAL SWITCH		
	L-830 SERIES ISOLATION TRANSFORMER		

	ELECTRICAL ABBREVIATIONS
AF.F.	ABOVE FINSHED FLOOR
A, AMP	AMPERES
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
C	CONDUIT
C8	CIRCUIT BREAKER
CKT	CIRCUIT
CR	CONTROL RELAY
CU	COPPER
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
Đ4	EMERGENCY
ENT	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 SOONUM
J	JUNCTION BOX
KVA	KILOVOLT AMPERE(S)
KW	KILOWATTS
FC	LIGHTING CONTACTOR
LTFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT (UL LISTED)
LTG	LIGHTING
ሆ	LIGHTING PANEL
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCM	THOUSAND CIRCLUAR 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

Ł	LECTRICAL ABBREVIATIONS (CONTINUED)
P8	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
٧	VOLTS
w/	WITH
<b>w</b> /0	WITHOUT
WP	WEATHER PROOF
XFER	TRANSFER
XFMR	TRANSFORMER
	**************************************
AIDD	OPT FOLHOMENT /CACILITY APPRICATIONS
	ORT EQUIPMENT/FACILITY ABBREVIATIONS
ASO\$	AUTOMATED SURFACE OBSERVING SYSTEM
ASOS ATCT	AUTOMATED SURFACE OBSERVING SYSTEM AIR TRAFFIC CONTROL TOWER
ASOS ATCT AWOS	AUTOMATED SURFACE OBSERVING SYSTEM AIR TRAFFIC CONTROL TOWER AUTOMATED WEATHER OBSERVING SYSTEM
ASOS ATCT AWOS CCR	AUTOMATED SURFACE OBSERVING SYSTEM AIR TRAFFIC CONTROL TOWER AUTOMATED WEATHER OBSERVING SYSTEM CONSTANT CURRENT REGULATOR
ASOS ATCT AWOS CCR DME	AUTOMATED SURFACE OBSERVING SYSTEM  AIR TRAFFIC CONTROL TOWER  AUTOMATED WEATHER OBSERVING SYSTEM  CONSTANT CURRENT REGULATOR  DISTANCE MEASURING EQUIPMENT
ASOS ATCT AWOS CCR DME FAR	AUTOMATED SURFACE OBSERVING SYSTEM  AIR TRAFFIC CONTROL TOWER  AUTOMATED WEATHER OBSERVING SYSTEM  CONSTANT CURRENT REGULATOR  DISTANCE MEASURING EQUIPMENT  FEDERAL AVAITION REGULATION
ASOS ATCT AWOS CCR DME FAR GS	AUTOMATED SURFACE OBSERVING SYSTEM  AIR TRAFFIC CONTROL TOWER  AUTOMATED WEATHER OBSERVING SYSTEM  CONSTANT CURRENT REGULATOR  DISTANCE MEASURING EQUIPMENT  FEDERAL AVAITION REGULATION  GLIDE SLOPE FACILITY
ASOS ATCT AWOS CCR DME FAR CS HIRL	AUTOMATED SURFACE OBSERVING SYSTEM  AIR TRAFFIC CONTROL TOWER  AUTOMATED WEATHER OBSERVING SYSTEM  CONSTANT CURRENT REGULATOR  DISTANCE MEASURING EQUIPMENT  FEDERAL AVIATION REGULATION  GLIDE SLOPE FACILITY  HIGH INTENSITY RUNNAY LIGHT
ASOS ATCT AWOS CCR DME FAR GS	AUTOMATED SURFACE OBSERVING SYSTEM  AIR TRAFFIC CONTROL TOWER  AUTOMATED WEATHER OBSERVING SYSTEM  CONSTANT CURRENT REGULATOR  DISTANCE MEASURING EQUIPMENT  FEDERAL AVAITION REGULATION  GLIDE SLOPE FACILITY
ASOS ATCT AWOS CCR DME FAR GS HIRL	AUTOMATED SURFACE OBSERVING SYSTEM  AIR TRAFFIC CONTROL TOWER  AUTOMATED WEATHER OBSERVING SYSTEM  CONSTANT CURRENT REGULATOR  DISTANCE MEASURING EQUIPMENT  FEDERAL AWATION REGULATION  GLIDE SLOPE FACILITY  HIGH INTENSITY RUNWAY LIGHT  INSTRUMENT LANDING SYSTEM
ASOS ATCT AWOS CCR DME FAR GS HIRL ILS	AUTOMATED SURFACE OBSERVING SYSTEM  AIR TRAFFIC CONTROL TOWER  AUTOMATED WEATHER OBSERVING SYSTEM  CONSTANT CURRENT REGULATOR  DISTANCE MEASURING EQUIPMENT  FEDERAL AVIATION REGULATION  GLIDE SLOPE FACILITY  HIGH INTENSITY RUNNAY LIGHT  INSTRUMENT LANDING SYSTEM  INNER MARKER
ASOS ATCT AWOS CCR DME FAR GS HIRL ILS IM	AUTOMATED SURFACE OBSERVING SYSTEM  AIR TRAFFIC CONTROL TOWER  AUTOMATED WEATHER OBSERVING SYSTEM  CONSTANT CURRENT REGULATOR  DISTANCE MEASURING EQUIPMENT  FEDERAL AVIATION REGULATION  GLIDE SLOPE FACILITY  HIGH INTENSITY RUNWAY LIGHT  INSTRUMENT LANDING SYSTEM  INNER MARKER  LOW IMPACT—RESISTANT
ASOS ATCT AWOS CCR DME FAR GS HIRL ILS M LIR LOC	AUTOMATED SURFACE OBSERVING SYSTEM  AR TRAFFIC CONTROL TOWER  AUTOMATED WEATHER OBSERVING SYSTEM  CONSTANT CURRENT REGULATOR  DISTANCE MEASURING EQUIPMENT  FEDERAL AVIATION REGULATION  GLIDE SLOPE FACILITY  HIGH INTENSITY RUNNAY LIGHT  INSTRUMENT LANDING SYSTEM  INNER MARKER  LOW IMPACT—RESISTANT  LOCALIZER FACILITY  MEDIUM INTENSITY APPROACH LIGHTING SYSTEM  MEDIUM INTENSITY APPROACH LIGHTING SYSTEM
ASOS ATCT AWOS CCR DME FAR GS HIRL ILS IM UR LOC MALS	AUTOMATED SURFACE OBSERVING SYSTEM  AIR TRAFFIC CONTROL TOWER  AUTOMATED WEATHER OBSERVING SYSTEM  CONSTANT CURRENT REGULATOR  DISTANCE MEASURING EQUIPMENT  FEDERAL AVAITION REGULATION  GLIDE SLOPE FACILITY  HIGH INTENSITY RUNNAY LIGHT  INSTRUMENT LANDING SYSTEM  INNER MARKER  LOW IMPACT-RESISTANT  LOCALIZER FACILITY  MEDIUM INTENSITY APPROACH LIGHTING SYSTEM
ASOS ATCT AWOS CCR DME FAR GS HIRL ILS IM LIR LOC MALS MALSR	AUTOMATED SURFACE OBSERVING SYSTEM  AIR TRAFFIC CONTROL TOWER  AUTOMATED WEATHER OBSERVING SYSTEM  CONSTANT CURRENT REGULATOR  DISTANCE MEASURING EQUIPMENT  FEDERAL AVIATION REGULATION  GLIDE SLOPE FACILITY  HIGH INTENSITY RUNWAY LIGHT  INSTRUMENT LANDING SYSTEM  INNER MARKER  LOW IMPACT—RESISTANT  LOCALIZER FACILITY  MEDIUM INTENSITY APPROACH LIGHTING SYSTEM  MEDIUM INTENSITY APPROACH LIGHTING SYSTEM  MEDIUM INTENSITY APPROACH LIGHTING SYSTEM  WITH RUNWAY AUSONMENT INDICATING LIGHTIS
ASOS ATCT AWOS CCR DME FAR GS HIRL ILS M LUR LOC MALS MALSR MIRL	AUTOMATED SURFACE OBSERVING SYSTEM  AIR TRAFFIC CONTROL TOWER  AUTOMATED WEATHER OBSERVING SYSTEM  CONSTANT CURRENT REGULATOR  DISTANCE MEASURING EQUIPMENT  FEDERAL AVIATION REGULATION  GLIDE SLOPE FACILITY  HIGH INTENSITY RUNWAY LIGHT  INSTRUMENT LANDING SYSTEM  INNER MARKER  LOW IMPACT-RESISTANT  LOCALIZER FACILITY  MEDIUM INTENSITY APPROACH LIGHTING SYSTEM  MEDIUM INTENSITY APPROACH LIGHTING SYSTEM  WITH RUNWAY AUGNMENT INDICATING LIGHTIS  MEDIUM INTENSITY RUNWAY LIGHT
ASOS ATCT AWOS CCR DME FAR GS HIRL ILS M LIR LOC MALS MALSR MIRL MITL	AUTOMATED SURFACE OBSERVING SYSTEM  AR TRAFFIC CONTROL TOWER  AUTOMATED WEATHER OBSERVING SYSTEM  CONSTANT CURRENT REGULATOR  DISTANCE MEASURING EQUIPMENT  FEDERAL AVIATION REGULATION  GLIDE SLOPE FACILITY  HIGH INTENSITY RUNWAY LIGHT  INSTRUMENT LANDING SYSTEM  INNER MARKER  LOW IMPACT—RESISTANT  LOCALIZER FACILITY  MEDIUM INTENSITY APPROACH LIGHTING SYSTEM  WITH RUNWAY AUGMMENT INDICATING LIGHTS  MEDIUM INTENSITY TAXIWAY LIGHT  MEDIUM INTENSITY RUNWAY LIGHT
ASOS ATCT AWOS CCR DME FAR GS HIRL ILS IM LUR LOC MALS MALSR MIRL MITL NDB	AUTOMATED SURFACE OBSERVING SYSTEM  AIR TRAFFIC CONTROL TOWER  AUTOMATED WEATHER OBSERVING SYSTEM  CONSTANT CURRENT REGULATOR  DISTANCE MEASURING EQUIPMENT  FEDERAL AVAITION REGULATION  GLIDE SLOPE FACILITY  HIGH INTENSITY RUNWAY LIGHT  INSTRUMENT LANDING SYSTEM  INNER MARKER  LOW IMPACT-RESISTANT  LOCALIZER FACILITY  MEDIUM INTENSITY APPROACH LIGHTING SYSTEM  WITH RUNWAY AUGMENT INDICATING LIGHTS  MEDIUM INTENSITY RUNWAY LIGHT  MEDIUM INTENSITY RUNWAY LIGHT  NON-DIRECTIONAL BEACON  PRECISION APPROACH PATH INDICATOR
ASOS ATCT AWOS CCR DME FAR GS HIRL ILS M LUR LOC MALS MALSR MIRL MITL NDB PAPI	AUTOMATED SURFACE OBSERVING SYSTEM  AR TRAFFIC CONTROL TOWER  AUTOMATED WEATHER OBSERVING SYSTEM  CONSTANT CURRENT REGULATOR  DISTANCE MEASURING EQUIPMENT  FEDERAL AVIATION REGULATION  GLIDE SLOPE FACILITY  HIGH INTENSITY RUNWAY LIGHT  INSTRUMENT LANDING SYSTEM  INNER MARKER  LOW IMPACT—RESISTANT  LOCALIZER FACILITY  MEDIUM INTENSITY APPROACH LIGHTING SYSTEM  WITH RUNWAY AUGMMENT INDICATING LIGHTS  MEDIUM INTENSITY TAXIWAY LIGHT  MEDIUM INTENSITY TAXIWAY LIGHT  MEDIUM INTENSITY TAXIWAY LIGHT  MEDIUM INTENSITY TAXIWAY LIGHT  NON—DIRECTIONAL BEACON  PRECISION APPROACH SLOPE INDICATOR
ASOS ATCT AWOS CCR DME FAR GS HIRL ILS IM LIR LOC MALS MALSR MIRL MITL NDB PAPI PLASI RAIL	AUTOMATED SURFACE OBSERVING SYSTEM  AIR TRAFFIC CONTROL TOWER  AUTOMATED WEATHER OBSERVING SYSTEM  CONSTANT CURRENT REGULATOR  DISTANCE MEASURING EQUIPMENT  FEDERAL AVAITION REGULATION  GLIDE SLOPE FACILITY  HIGH INTENSITY RUNWAY LIGHT  INSTRUMENT LANDING SYSTEM  INNER MARKER  LOW IMPACT—RESISTANT  LOCALIZER FACILITY  MEDIUM INTENSITY APPROACH LIGHTING SYSTEM  MEDIUM INTENSITY APPROACH LIGHTING SYSTEM  WITH RUNWAY ALIGNMENT INDICATING LIGHTS  MEDIUM INTENSITY RUNWAY LIGHT  NON—DIRECTIONAL BEACON  PRECISION APPROACH SLOPE INDICATOR  RUNWAY ALIGNMENT INDICATING LIGHTS  RUNWAY ALIGNMENT INDICATING LIGHTS
ASOS ATCT AWOS CCR DME FAR GS HIRL ILS M LIR LOC MALS MALSR MIRL MITL NDB PAPI PLASI	AUTOMATED SURFACE OBSERVING SYSTEM  AR TRAFFIC CONTROL TOWER  AUTOMATED WEATHER OBSERVING SYSTEM  CONSTANT CURRENT REGULATOR  DISTANCE MEASURING EQUIPMENT  FEDERAL AVIATION REGULATION  GLIDE SLOPE FACILITY  HIGH INTENSITY RUNWAY LIGHT  INSTRUMENT LANDING SYSTEM  INNER MARKER  LOW IMPACT—RESISTANT  LOCALIZER FACILITY  MEDIUM INTENSITY APPROACH LIGHTING SYSTEM  WITH RUNWAY AUGMMENT INDICATING LIGHTS  MEDIUM INTENSITY TAXIWAY LIGHT  MEDIUM INTENSITY TAXIWAY LIGHT  MEDIUM INTENSITY TAXIWAY LIGHT  MEDIUM INTENSITY TAXIWAY LIGHT  NON—DIRECTIONAL BEACON  PRECISION APPROACH SLOPE INDICATOR

VADI

VASI

WC

WIND CONE

VISUAL APPROACH DESCENT INDICATOR

VISUAL APPROACH SLOPE INDICATOR

VERY HIGH FREQUENCY OMNIDIRECTIONAL RANGE FACILITY

ELECTRICAL ABBREVIATIONS (CONTINUED)

FA004

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.

2. 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

SEE RESPECTIVE SITE PLANS FOR SITE LEGEND INFORMATION.

5. 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 LIFMC THAT IS NOT UL LISTED.

FAIRFIELD MUNICIPAL AIRPORT FAIRFIELD, ILLINOIS

HANSON

REPLACE RUNWAY TAXIWAY LIGHTING

08,

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