ELECTRICAL LEGEND — SCHEMATIC							
H NORMALLY OPEN (N.O.) CONTACT							
 	NORMALLY CLOSED (N.C.) CONTACT						
(\$*)	STARTER COIL, * = STARTER NUMBER						
	OVERLOAD RELAY CONTACT						
Ĭ €R•)	CONTROL RELAY, * = CONTROL RELAY NUMBER						
(R*)	RELAY, * = RELAY NUMBER						
	TOGGLE SWITCH / 2 POSITION SWITCH						
OFF AUTO	TOOGLE SWITCH / 2 TOOMING SWITCH						
ΙΥ	2-POSITION SELECTOR SWITCH						
o ox							
OFF HAND ↑ AUTO							
• X00							
	3-POSITION SELECTOR SWITCH (H-0-A SHOWN)						
00X							
	2 POLE DISCONNECT SWITCH						
	3 POLE DISCONNECT SWITCH						
<u></u>	PHOTOCELL						
	TERMINAL BLOCK, * = TERMINAL NUMBER						
	DEVICE TERMINAL, * = DEVICE TERMINAL NUMBER						
	INTERNAL PANEL WIRING						
	FIELD WIRING						
	FUSE						
GND	GROUND BUS OR TERMINAL						
S/N	NEUTRAL BUS						
#	GROUND, GROUND ROD, GROUND BUS						
0 0	INDUSTRIAL CONTROL RELAY OR LIGHTING CONTACTOR						
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S1 CUTOUT HANDLE REMOVED						
 	S1 CUTOUT HANDLE INSERTED						
	N.O. THERMAL SWITCH						
- <u>_</u> -	N.C. THERMAL SWITCH						
(Mar)	L-830 SERIES ISOLATION TRANSFORMER						

	ELECTRICAL ABBREVIATIONS
A.F.F.	ABOVE FINSHED FLOOR
A, AMP	AMPERES
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
С	CONDUIT
СВ	CIRCUIT BREAKER
скт	CIRCUIT
CR	CONTROL RELAY
cu	COPPER
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
ЕМ	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
НОА	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
мсв	MAIN CIRCUIT BREAKER
мсм	THOUSAND CIRCLUAR MIL
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
мн	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
	OVEDIAND

OVERLOAD

0L

EL	ECTRICAL 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					
٧	VOLTS					
W/	WITH					
W /0	without					
WP	WEATHER PROOF					
XFER	TRANSFER					
XFMR	TRANSFORMER					

AIRPORT EQUIPMENT/FACILITY ABBREVIATIONS ASOS AUTOMATED SURFACE OBSERVING SYSTEM ATCT AIR TRAFFIC CONTROL TOWER	S					
ATCT AIR TRACEIC CONTROL TOWER						
AIGI AIR IRAFFIC CONTROL TOWER						
AWOS AUTOMATED WEATHER OBSERVING SYSTEM						
CCR CONSTANT CURRENT REGULATOR						
DME DISTANCE MEASURING EQUIPMENT	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 FACILIT	Y					

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 NFUTRAL 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 RFD NEUTRAL WHITE GROUND GREEN

- 4. 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 LIFMC THAT IS NOT UL LISTED. CONFIRM LTFMC BEARS THE UL LABEL PRIOR TO INSTALLATION.
- 6. 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.
- 7. HIGH VOLTAGE AND LOW VOLTAGE CIRCUITS SHALL NOT BE INSTALLED IN THE SAME WIREWAY, CONDUIT, DUCT, OR

						2
	DATE	12/11/17				
	DATE REVISION	ADDED NOTES 6 & 7				
,						

COUNTY AIRPORT ON, ILLINOIS

HANSON
man Professional Services Inc. 2013
Professional Services Inc.
25 South Sixth Street
Ed. Illinois 62702-2886
88-2450 Fax; (217) 788-2503
ww.hanson-inc.com Springfield, (217) 788-24

IGHT AND MAF EXTENSION É, LIC 805' I