INFO	RMA	ΓΙΟΝ	Sł	HOWN	ON
THIS	SHI	EET	IS	FOR	BASE
BID,	ADD	ITIVE	ΞΑ	LTERI	VATE
NO.	1 &	AD	DIT	VE	
ALTE	RNA	TE N	10.	2.	

	ELECTRICAL LEGEND - SCHEMATIC		
	NORMALLY OPEN (N.O.) CONTACT		
-11-	NORMALLY CLOSED (N.C.) CONTACT		
⊕	STARTER COIL, * = STARTER NUMBER		
OL.	OVERLOAD RELAY CONTACT		
€R*	CONTROL RELAY, * = CONTROL RELAY NUMBER		
R*	RELAY, * = RELAY NUMBER		
· ~	TOGGLE SWITCH / 2 POSITION SWITCH		
OFF AUTO			
- ox	2-POSITION SELECTOR SWITCH		
HAND OFF AUTO	3-POSITION SELECTOR SWITCH (H-O-A SHOWN)		
17	2 POLE DISCONNECT SWITCH		
111	3 POLE DISCONNECT SWITCH		
	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		
<u></u>	GROUND, GROUND ROD, GROUND BUS		
000	INDUSTRIAL CONTROL RELAY OR LIGHTING CONTACTOR		
	S1 CUTOUT HANDLE REMOVED		
	S1 CUTOUT HANDLE INSERTED		
170	N.O. THERMAL SWITCH		
्रु	N.C. THERMAL SWITCH		
(#)	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
CB	CIRCUIT BREAKER
скт	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
ιc	LIGHTING CONTACTOR
LTFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT (UL LISTED)
LTG	LIGHTING
LP	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
N	NEUTRAL.
NEC	NATIONAL ELECTRICAL CODE (NFPA 70)
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OHE	OVERHEAD ELECTRIC

OL OVERLOAD

E	LECTRICAL 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
AIRP	ORT EQUIPMENT/FACILITY ABBREVIATIONS
ASOS	AUTOMATED SURFACE OBSERVING SYSTEM
ATCT	AIR TRAFFIC CONTROL TOWER
AWOS	AUTOMATED WEATHER OBSERVING SYSTEM
CCR	CONSTANT CURRENT REGULATOR
DME	DICTANCE HEADING FOR THE PARTY OF THE PARTY

AIRF	PORT 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

	p	
		ELECTRICAL LEGEND — PLANS
	***************************************	CONDUIT (EXPOSED)
		CONDUIT OR UNIT DUCT (CONCEALED OR BURIED)
	⊶¤	POLE OR CONDUIT MOUNTED LIGHT FIXTURE
	Ю0.	WALL OR CEILING MT'D. JUNCTION BOX. CONFIGURATION VARIES WITH USE
	40	SINGLE THROW DISCONNECT SWITCH
	423	SINGLE THROW, FUSIBLE DISCONNECT SWITCH
	4038	ENCLOSED CIRCUIT BREAKER
	4का	DOUBLE THROW SAFETY SWITCH, MANUAL TRANSFER SWITCH
	(E E)	CONTROL PANEL
	T	TRANSFORMER
		ELECTRIC UTILITY METER
		ENCLOSURE
		CIRCUIT BREAKER PANEL-SEE SCHEDULES
	•	GROUND ROD
		\$12 AWG TWHN COPPER UNLESS NOTED OTHERWISE. LONG SLASHES INDICATE NEUTRAL SHORT SLASHES INDICATE HOT OR SWITCHED LEG. SLASHES WITH DOT INDICATE SEPARATE GROUND WIRE.
į	PNL A 1335	Homerun to Panel PNL A indicates Panel 1,3,5 indicates circuit numbers

MV056

NOTES:

PHOTO-ELECTRIC CELL.

- 1. 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 DIRECTOR. 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 AND 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).
- 3. 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	
120/208	VAC, 1 PHASE, 3 WIRE	
PHASE A	BLACK	
PHASE B	RED	
NEUTRAL	WHITE	
GROUND	GREEN	
208/120	VAC, 3 PHASE, 4 WIRE	
PHASE A	BLACK	

RED

BLUE

PHASE B PHASE C

NEUTRAL

GROUND

16