

L-890 BLOCK DIAGRAM NOMENCLATURE

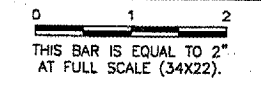
- ① EXISTING 900 MHZ SPREAD SPECTRUM RADIO TRANSMITTER. TRANSMITS ON/OFF CONTROL TO ROTATING BEACON.
- ② NEW ON/OFF CONTROL WIRING.
- ③ EXISTING 200 KW STANDBY GENERATOR, 277Y/480V, 3-PHASE, 4-WIRE.
- ④ NEW GENERATOR MONITOR WIRING AS REQUIRED TO ACCOMPLISH THE FOLLOWING:
 - LOW OIL PRESSURE
 - OVER CRANK (FAILURE TO START)
 - LOW ENGINE JACKET WATER TEMPERATURE
 - HIGH ENGINE JACKET WATER TEMPERATURE
 - OVERSPEED
 - LOW FUEL TANK LEVEL
- ⑤ EXISTING 600A AUTOMATIC TRANSFER SWITCH, 3-PHASE, 4-WIRE.
- ⑥ NEW AUTOMATIC TRANSFER SWITCH MONITOR WIRING AS REQUIRED TO ACCOMPLISH THE FOLLOWING:
 - GENERATOR AVAILABLE
 - GENERATOR ON-LINE
 - UTILITY AVAILABLE
 - UTILITY ON-LINE
- ⑦ EXISTING L-854 RADIO CONTROLLER
- ⑧ NEW PCAL BRIGHTNESS CONTROL WIRING
- ⑨ EXISTING CONTACTOR CABINET FOR WIND CONE 31 (WC 31), WIND CONE 13 (WC 13), PAPI 13 AND REIL 13.
- ⑩ EXISTING TAXIWAY REGULATOR, 3-STEP BRIGHTNESS CONTROL.
- ⑪ NEW REGULATOR CONTROL AND MONITOR WIRING AS REQUIRED TO ACCOMPLISH THE FOLLOWING:
 - 3-STEP BRIGHTNESS CONTROL
 - LOSS OF INPUT POWER TO THE CCR.
 - CCR SHUTDOWN BY OPEN-CIRCUIT / OVER-CURRENT PROTECTIVE DEVICES.
 - DROP OF MORE THAN 10% IN THE CCR VA LOAD.
 - FAILURE OF THE CCR TO DELIVER THE SELECTED OUTPUT CURRENT.
 - THE NUMBER OF BURNT-OUT LAMPS IN EACH SERIES CIRCUIT.
 - REMOTE / LOCAL STATUS OF THE CCR.
 - ACTUAL CCR OUTPUT CURRENT
 - ACTUAL CCR OUTPUT VOLTAGE
 - ACTUAL CCR OUTPUT LOAD (WATTAGE)
- ⑫ EXISTING RUNWAY 18/36 REGULATOR, 3-STEP BRIGHTNESS CONTROL.
- ⑬ NEW RUNWAY 13/31 "BACKUP" REGULATOR, 5-STEP BRIGHTNESS CONTROL.
- ⑭ NEW RUNWAY 13/31 "NORMAL" REGULATOR, 5-STEP BRIGHTNESS CONTROL.
- ⑮ NEW REGULATOR MONITOR WIRING AS REQUIRED TO ACCOMPLISH THE FOLLOWING:
 - LOSS OF INPUT POWER TO THE CCR.
 - CCR SHUTDOWN BY OPEN-CIRCUIT / OVER-CURRENT PROTECTIVE DEVICES.
 - DROP OF MORE THAN 10% IN THE CCR VA LOAD.
 - FAILURE OF THE CCR TO DELIVER THE SELECTED OUTPUT CURRENT.
 - THE NUMBER OF BURNT-OUT LAMPS IN EACH SERIES CIRCUIT.
 - REMOTE / LOCAL STATUS OF THE CCR.
 - ACTUAL CCR OUTPUT CURRENT
 - ACTUAL CCR OUTPUT VOLTAGE
 - ACTUAL CCR OUTPUT LOAD (WATTAGE)
- ⑯ EXISTING RUNWAY 13/31 & RUNWAY 04/22 REGULATOR SELECTOR CABINET.
- ⑰ EXISTING CONTROL WIRING.
- ⑱ NEW 5-STEP REGULATOR BRIGHTNESS CONTROL WIRING.
- ⑳ EXISTING RUNWAY 04/22 "NORMAL" REGULATOR, 5-STEP BRIGHTNESS CONTROL.
- ㉑ EXISTING RUNWAY 04/22 "BACKUP" REGULATOR, 5-STEP BRIGHTNESS CONTROL.
- ㉒ EXISTING L-847 CIRCUIT SELECTOR SWITCH.

L-890 BLOCK DIAGRAM LEGEND

- DCMI - DISTRIBUTED CONTROL AND MONITORING INTERFACE
- T - TERMINATOR
- UPS - UNINTERRUPTIBLE POWER SUPPLY
- CONV - COPPER TO FIBER CONVERSION MODULE
- FOTB - FIBER OPTIC TERMINATOR BOX
- AP - WIRELESS ACCESS POINT
- LA - LIGHTNING ARRESTOR
- FS - FAST ETHERNET SWITCH
- M - MODEM
- PCEX - VIDEO EXTENDER (TRANSMITTER)
- PCER - VIDEO EXTENDER (RECEIVER)
- RVR - EXISTING RUNWAY VISUAL RANGE WIRING IN TOWER CAB

REVISIONS

NUMBER	BY	DATE



SPRINGFIELD AIRPORT AUTHORITY
 ABRAHAM LINCOLN CAPITAL AIRPORT
 SPRINGFIELD, ILLINOIS
 CONSTRUCT RUNWAY 13/31 RSA IMPROVEMENTS
 L-890 AIRFIELD LIGHTING CONTROL AND MONITORING SYSTEM

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DESIGN BY:	WDP
DRAWN BY:	CMT
CHECKED BY:	REV
APPROVED BY:	REV
DATE:	04/24/07
JOB No:	05035-03
IL PROJ. NO.	SPI-3488
AIP PROJ. NO.	3-17-0096-42

L-890 SYSTEM BLOCK DIAGRAM

N.T.S.

ALL EXISTING AND NEW REGULATORS HAVE 120V EXTERNAL CONTROL POWER.

NOTE: ALL EXISTING EQUIPMENT AND WIRING SHOWN DASHED.