

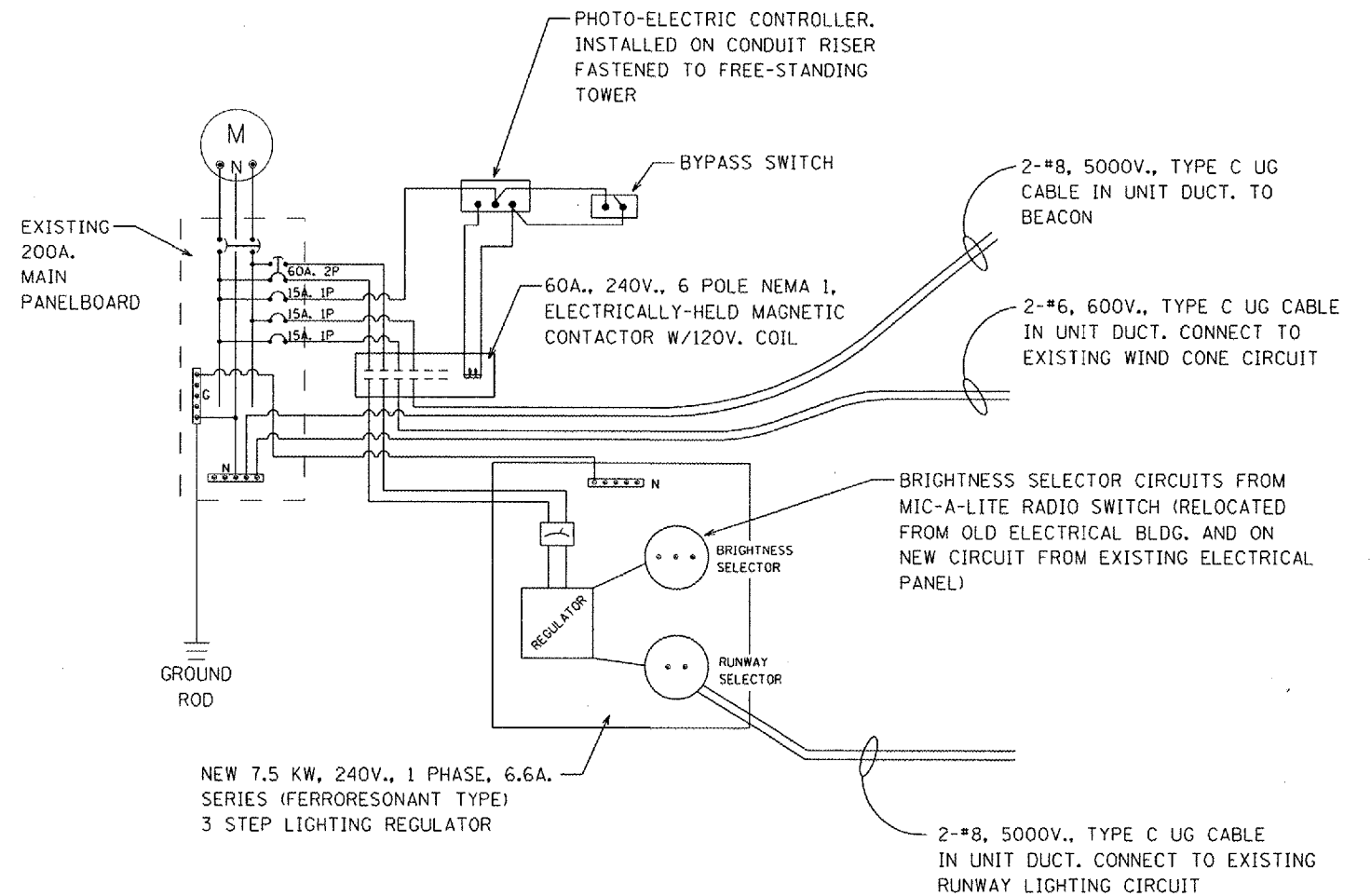
FIELD LIGHTING NOTES

- NO COMPONENTS OF PRIMARY CIRCUIT SUCH AS CABLE, CONNECTORS AND TRANSFORMERS SHALL BE BROUGHT ABOVE GROUND.
- UNLESS OTHERWISE NOTED, ALL UNDERGROUND FIELD POWER MULTIPLE AND SERIES CIRCUIT CONDUCTORS SHALL BE FAA APPROVED L-824 TYPE. INSULATION VOLTAGE AND SIZE SHALL BE AS SPECIFIED.
- THERE SHALL BE NO EXPOSED POWER/CONTROL CABLES BETWEEN THE POINT WHERE THEY LEAVE THE ELECTRICAL VAULT AND WHERE THEY ENTER THE EQUIPMENT ENCLOSURES. THESE CABLES SHALL BE ENCLOSED IN RIGID CONDUIT OR IN FLEXIBLE, WATER-TIGHT CONDUIT WITH BREAKABLE COUPLING(S) AT THE GRADE OF THE HOUSING COVER, AS SHOWN IN APPLICABLE DETAILS.
- L-867 BASES SHALL BE SIZE E, 24 INCHES DEEP, CLASS 1A, UNLESS OTHERWISE NOTED. L-868 BASES SHALL BE SIZE C, 24 INCHES DEEP, CLASS 1A, UNLESS OTHERWISE NOTED.
- ENTRANCES INTO L-867 AND L-868 BASES SHALL BE PLUGGED FROM THE INSIDE WITH DUCT SEAL.
- DUCT MARKERS SHALL BE PRECAST CONCRETE OF THE SIZE SHOWN. LETTERS/NUMBERS/ARROWS FOR THE LEGEND TO BE IMPRESSED INTO THE TOPS OF THE MARKERS SHALL BE PRE-ASSEMBLED AND SECURED IN THE MOLD BEFORE THE CONCRETE IS POURED. LEGEND INSCRIBED BY HAND IN WET CONCRETE SHALL NOT BE ACCEPTABLE.
- LOCATIONS OF ENDS OF ALL UNDERGROUND DUCTS SHALL BE IDENTIFIED BY DUCT MARKERS.
- GALVANIZED/PAINTED EQUIPMENT/COMPONENT SURFACES SHALL NOT BE DAMAGED BY DRILLING, FILLING, ETC. DRAIN HOLES IN METAL TRANSFORMER HOUSINGS SHALL BE MADE BEFORE GALVANIZING.
- ALL POWER AND CONTROL CABLES IN HAND HOLES SHALL BE TAGGED. USE EMBOSSED COPPER STRIPS TO BE ATTACHED AT BOTH ENDS TO THE CABLE BY THE USE OF PLASTIC STRAPS. MINIMUM OF TWO TAGS SHALL BE PROVIDED ON EACH CABLE IN A HAND HOLE. ONE AT THE CABLE ENTRANCE AND ONE AT THE CABLE EXIT.
- CONCRETE USED FOR SLABS, FOOTINGS, BACKFILL AROUND BASE CANS, ETC. SHALL BE 3500 PSI IN 14 DAYS, AIR-ENTRAINED.
- APPLY AN OXIDE INHIBITING, ANTI-SEIZING COMPOUND TO ALL SCREWS, NUTS AND BREAKAGE COUPLING THREADS
- THE PROPOSED RUNWAY/TAXIWAY LIGHTING CABLE WILL BE NO. 8, 5000 V., 1/C, TYPE C UNDERGROUND CABLE IN UNIT DUCT.
- THE PROPOSED AIRPORT BEACON CABLE WILL BE NO. 8, 5000 V., 2/C TYPE C UNDERGROUND CABLE IN UNIT DUCT.
- THE PROPOSED WIND CONE LIGHTING CABLE TO THE EXISTING CIRCUIT WILL BE NO. 6, 600 V., 2/C, TYPE C UNDERGROUND CABLE IN UNIT DUCT. THE WIND CONE LIGHTING CABLE TO THE PROPOSED WIND CONE WILL BE NO. 8, 5000 V., 1/C, TYPE C UNDERGROUND CABLE IN UNIT DUCT.
- IN AREAS WHERE THERE IS A CONGESTION OF CABLES OR WHERE THE PROPOSED CABLE CROSSES AN EXISTING CABLE, THE PROPOSED CABLE WILL BE TRENCHED INTO PLACE. ALL OTHER LOCATIONS THE PROPOSED CABLE MAY BE EITHER TRENCHED OR PLOWED INTO PLACE. TRENCHING AND/OR PLOWING WILL BE CONSIDERED INCIDENTAL TO THE PROPOSED. CABLE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- CABLE QUANTITIES WERE DETERMINED UTILIZING LINEAR DISTANCES BETWEEN CONSECUTIVE POINTS.
- THE APPROXIMATE LOCATION OF VARIOUS AIRFIELD LIGHTING SYSTEM CABLES SHOWN ON THE PLANS IS FOR THE CONTRACTOR'S INFORMATION. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THE EXISTING CABLES IN THE WORK AREAS AND MAKE HIS OWN DETERMINATION AS TO THE NUMBER OF CABLES EXISTING IN SAID AREAS AND AS TO THE CIRCUIT THAT THE CABLES ARE ASSOCIATED WITH. CAUTION SHALL BE EXERCISED WHEN TRENCHING, EXCAVATING DUCT ENDS, ETC. TO AVOID CUTTING THE EXISTING CIRCUIT CABLES. ANY EXISTING CABLE DAMAGED SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCK OUT THE FIELD LIGHTING CIRCUIT WHILE PERFORMING WORK ON OR NEAR THE SAID CIRCUIT. THE CIRCUIT SHALL BE LOCKED OUT TO INSURE THAT THE CIRCUIT CANNOT BE ENERGIZED MANUALLY OR BY THE RADIO CONTROL SYSTEM WHILE WORK IS BEING DONE. IN ADDITION TO THE FIELD LIGHTING CIRCUIT, THE AIRPORT BEACON SHALL ALSO BE LOCKED OUT SO THAT CIRCUIT CANNOT BE ENERGIZED WHILE WORK IS BEING DONE ON THE FIELD LIGHTING CIRCUIT. PRIOR PERMISSION OF THE AIRPORT MANAGER WILL BE REQUIRED.

GROUNDING NOTES

- TOP OF GROUND RODS SHALL BE 10 INCHES BELOW GRADE.
- THE RESISTANCE TO GROUND OF THE VAULT GROUNDING SYSTEM WITH THE COMMERCIAL POWER LINE NEUTRAL DISCONNECTED SHALL NOT EXCEED 10 OHMS.
- ALL GROUND CONNECTIONS TO GROUND RODS, BUSSES, PANELS, ETC. SHALL BE MADE WITH PRESSURE TYPE SOLDERLESS LUGS, GROUND CLAMPS SOLDERED OR BOLT AND WASHER TYPE CONNECTIONS ARE NOT ACCEPTABLE. CLEAN ALL METAL SURFACES BEFORE MAKING GROUND CONNECTIONS.

BE001



ELECTRICAL DIAGRAM FOR AIRPORT LIGHTING EQUIPMENT
NOT TO SCALE

DATE	REVISION

GREATER BEARDSTOWN MUNICIPAL AIRPORT
CITY OF BEARDSTOWN, BEARDSTOWN, ILLINOIS

FILENAME	Lighting-Grounding Notes.dgn	
SCALE	NO SCALE	
DATE	MARCH 20, 2006	
SHEET 6 OF 10 SHEETS		
LAYOUT	MGM	03/07/06
DRAWN	MGM	03/07/06
REVIEWED	RHB	03/07/06



BENTON & ASSOCIATES, INC.
1970 W. LAFAYETTE AVE., JACKSONVILLE IL 62650
(217) 245-4146 (217) 245-4149 FAX
KIRKSVILLE MISSOURI
MACOMB ILLINOIS
ST. LOUIS MISSOURI

FIELD LIGHTING AND
GROUNDING NOTES

ILL. PROJ. NO. K06-3439 A.I.P. PROJ. NO. 3-17-0004-B8

Job No. 06E1688

6

SHEET 6 OF 10