

AIRFIELD LIGHTING NOTES

- ALL WORK, POWER OUTAGES, AND/OR SHUT DOWN OF EXISTING SYSTEMS SHALL BE COORDINATED WITH THE AIRPORT DIRECTOR/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).
- CONTRACTOR SHALL FIELD VERIFY EXISTING SITE CONDITIONS. CONTRACTOR SHALL FIELD VERIFY RESPECTIVE CIRCUITS AND POWER SOURCES PRIOR TO REMOVING OR DISCONNECTING THE RESPECTIVE AIRFIELD LIGHTING, NAVAID, OR OTHER DEVICE.
- PROPOSED RUNWAY, THRESHOLD, AND TAXIWAY LIGHTS SHALL BE PLACED 10' (FT.) FROM THE PAVEMENT EDGE UNLESS SHOWN OTHERWISE ON THESE CONSTRUCTION DRAWINGS. PROPOSED TAXI GUIDANCE SIGNS SHALL BE LOCATED SUCH THAT THE CLOSEST SIDE OF THE SIGN IS 15' FROM THE PAVEMENT EDGE, UNLESS SHOWN OTHERWISE.
- PROPOSED RUNWAY LIGHTS, THRESHOLD LIGHTS, TAXIWAY LIGHTS, GUIDANCE SIGNS, OTHER AIRFIELD LIGHTING, SPLICE CANS, HANDHOLES, MANHOLES, ELECTRICAL DUCTS, AND CABLE SHALL BE INSTALLED AT THE LOCATIONS SHOWN AND IN COMPLIANCE WITH THE SPECIFICATIONS, SPECIAL PROVISIONS, RESPECTIVE DETAILS, AND MANUFACTURER'S RECOMMENDATIONS.
- PROPOSED CABLE FOR RUNWAY AND TAXIWAY LIGHTING SHALL BE INSTALLED APPROXIMATELY 10' FROM THE PAVEMENT EDGE. CABLES SHALL BE PLACED A MINIMUM OF 18" BELOW FINISHED GRADE.
- THE PROPOSED RUNWAY AND TAXIWAY LIGHTING CABLE SHALL BE 1/C, #8 AWG, FAA L-824, 5000 VOLT, 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 CONTRACTOR IS REQUIRED TO HAND DIG THE TRENCH NECESSARY FOR THE PROPOSED CABLE. AT OTHER LOCATIONS, THE PROPOSED CABLE MAY BE TRENCHED OR PLOWED INTO PLACE. HAND DIGGING, TRENCHING AND/OR PLOWING WILL BE CONSIDERED INCIDENTAL TO THE PROPOSED CABLES AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- PROPOSED RUNWAY LIGHTS SHALL BE FITTED WITH LENSES IN ACCORDANCE WITH THE "LIGHT LENS SCHEDULE". ALL PROPOSED TAXIWAY LIGHTS WILL BE FITTED WITH 360° BLUE LENSES.
- ALL PROPOSED RUNWAY, THRESHOLD, AND TAXIWAY LIGHTS SHALL BE TAGGED BY THE CONTRACTOR IN ACCORDANCE WITH THE LIGHT NUMBERS SHOWN ON THESE CONSTRUCTION DRAWINGS.
- SEE "TAXI GUIDANCE SIGN SCHEDULE" FOR INFO ON SIGN LEGENDS.
- THE CONTRACTOR SHALL SECURE, IDENTIFY AND PLACE ALL TEMPORARY EXPOSED WIRING IN CONDUIT, DUCT OR UNIT DUCT TO PREVENT ELECTROCUTION AND FIRE IGNITION SOURCES AS PER THE REQUIREMENTS OF FAA AC 150/5370-2F, PART 218, PARAGRAPH C. ALL LABOR, MATERIALS, AND TIME NECESSARY TO COMPLY WITH THIS REQUIREMENT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- HOMERUN CABLES FOR A RESPECTIVE CIRCUIT THAT ARE INSTALLED IN CONDUIT OR DUCT SHALL BE RUN TOGETHER IN THE SAME RACEWAY OR DUCT.
- EXISTING AIRFIELD LIGHTING CABLES (SCHEDULED FOR REPLACEMENT) IN AREAS OF NEW WORK SHALL BE DISCONNECTED & REMOVED WHERE IN CONFLICT WITH NEW CONSTRUCTION. IN OTHER AREAS CABLES MAY BE ABANDONED IN PLACE.
- THE CONTRACTOR IS REQUIRED TO FILL IN ALL HOLES AND DEPRESSIONS RESULTING FROM THE NEW WORK, WITH EARTH MATERIAL. THE AREAS SHALL BE COMPACTED TO PREVENT FUTURE SETTLEMENT AND FERTILIZED, SEEDED, AND MULCHED IN ACCORDANCE WITH ITEMS 901 AND 908 RESPECTIVELY.
- IN THE EVENT THAT OTHER CONSTRUCTION PROJECTS ARE IN PROGRESS AT THE AIRPORT AT THE SAME TIME AS THIS PROJECT, THE CONTRACTOR WILL BE REQUIRED TO COOPERATE WITH ALL OTHER CONTRACTORS AND THE AIRPORT MANAGER IN THE COORDINATION OF THE WORK.
- NO CONNECTION TO AN ACTIVE LIGHTING CIRCUIT WILL BE BROKEN UNTIL THE CIRCUIT HAS BEEN TURNED OFF IN ACCORDANCE WITH NOTE 1.

TAXI GUIDANCE SIGN SCHEDULE			
SIGN NUMBERS	LOCATION	SIDE A	SIDE B
R1-TGS1	RUNWAY 27 INTERSECTION WITH RUNWAY 36-18	36-18	BLANK
R1-TGS2	TAXIWAY A2 INTERSECTION WITH RUNWAY 9-27 (AT HOLD LINE)	9-27	RAMP →
R1-TGS3	TAXIWAY INTERSECTION WITH RUNWAY 27 (AT HOLD LINE)	27	BLANK
R1-TGS4	RUNWAY 9 INTERSECTION WITH RUNWAY 18-36	18-36	BLANK
R1-TGS5	CONNECTING TAXIWAY FROM WEST SIDE OF RAMP TO RUNWAY 9-27 (AT HOLD LINE)	9-27	RAMP ↑
R1-TGS6	TAXIWAY A1 INTERSECTION WITH RUNWAY 9-27 (AT HOLD LINE)	9-27	RAMP ↑
T1-TGS2	TAXIWAY A INTERSECTION WITH RUNWAY 36-18	36-18	27 ↑
T1-TGS3	TAXIWAY A INTERSECTION WITH RUNWAY 18-36	18-36	← RAMP
R2-TGS1**	RUNWAY 36 INTERSECTION WITH RUNWAY 9-27	9-27	BLANK
R2-TGS2**	RUNWAY 18 INTERSECTION WITH RUNWAY 27-9	27-9	BLANK

** UNLIGHTED SIGN

TAXI GUIDANCE SIGN SCHEDULE

- A** TYPE L-858L LOCATION SIGN - YELLOW LEGEND AND BORDER ON A BLACK BACKGROUND
- 9-27** TYPE L-858R MANDATORY INSTRUCTION SIGN - BLACK OUTLINE ON OUTSIDE EDGE OF WHITE LEGEND ON A RED BACKGROUND
- RAMP ↑** TYPE L-858Y DIRECTION, DESTINATION, AND BOUNDARY SIGN - BLACK LEGEND ON A YELLOW BACKGROUND
- BLANK** BLANK - BLACK BACKGROUND

TAXI GUIDANCE SIGN NOTES

- THE PROPOSED TAXI GUIDANCE SIGNS SHALL CONFORM TO ADVISORY CIRCULAR 150/5345 44J (OR LATEST ISSUE IN FORCE) AND BE FAA-APPROVED FOR TYPE L-858Y OR L-858Y(L) DIRECTION, DESTINATION, AND BOUNDARY SIGNS (BLACK LEGEND ON YELLOW BACKGROUND); TYPE L-858R OR L-858R(L) MANDATORY INSTRUCTION SIGN (BLACK OUTLINE ON OUTSIDE EDGE OF WHITE LEGEND ON RED BACKGROUND); AND/OR TYPE L-858L OR L-858L(L) LOCATION SIGN (YELLOW LEGEND AND BORDER ON BLACK BACKGROUND).
- THE SIGNS SHALL BE SIZE 1, 18-IN. SIGN FACE WITH A 12-IN. LEGEND; STYLE 2, POWERED FROM A 4.8 TO 6.6 AMP SERIES LIGHTING CIRCUIT; CLASS 2, FOR OPERATION FROM -40 DEGREES F TO 131 DEGREES F; MODE 2, TO WITHSTAND WIND LOADS OF 200 M.P.H., BASE-MOUNTED, DOUBLE-SIDED, AS SPECIFIED ON THE PLANS.
- THE PROPOSED TAXI GUIDANCE SIGNS SHALL BE LOCATED SUCH THAT THE CLOSEST SIDE OF THE SIGN IS 15' FROM THE PAVEMENT EDGE OR RESPECTIVE RUNWAY SURFACE EDGE.
- THE PROPOSED LIGHTED TAXI GUIDANCE SIGNS WILL BE PAID FOR UNDER THE FOLLOWING ITEMS:
 AR125442 TAXI GUIDANCE SIGN, 2 CHARACTER _____ PER EACH.
 AR125445 TAXI GUIDANCE SIGN, 5 CHARACTER _____ PER EACH.

 AND ADDITIVE ALTERNATE FOR UPGRADE TO LED TYPE ILLUMINATION
 AS800411 2 CHARACTER SIGN LED UPGRADE _____ PER EACH.
 AS800593 5 CHARACTER SIGN LED UPGRADE _____ PER EACH.
- THE PROPOSED UNLIGHTED TAXI GUIDANCE SIGNS SHALL CONFORM TO ADVISORY CIRCULAR 150/5345-44J (OR LATEST ISSUE IN FORCE) AND BE FAA-APPROVED FOR TYPE L-858 TAXIWAY AND RUNWAY SIGNS. THE SIGNS SHALL BE SIZE 1, 18-IN. SIGN FACE WITH A 12-IN. LEGEND; STYLE 4, UNLIGHTED SIGNS; MODE 2, TO WITHSTAND WIND LOADS OF 200 M.P.H., BASE-MOUNTED.

LIGHT LENS SCHEDULE			
LIGHT NUMBERS	LENS	ORIENTATION	FIXTURE TYPE
R1-1 TO R1-7	BLUE	---	L-861T OR L-861T(L)
R1-8 TO R1-13	CLEAR WHITE	---	L-861 OR L-861(L)
R1-14	CLEAR WHITE/YELLOW	YELLOW SIDE FACING WEST (TOWARD RUNWAY 9 APPROACH)	L-861 OR L-861(L)
R1-15 TO R1-28	BLUE	---	L-861T OR L-861T(L)
R1-29 TO R1-37	CLEAR WHITE/YELLOW	YELLOW SIDE FACING WEST (TOWARD RUNWAY 9 APPROACH)	L-861 OR L-861(L)
R1-38 TO R1-45	BLUE	---	L-861T OR L-861T(L)
R1-46 TO R1-53	RED/GREEN	GREEN SIDE FACING EAST (TOWARD RUNWAY 27 APPROACH)	L-861E OR L-861E(L)
R1-54 TO R1-63	CLEAR WHITE/YELLOW	YELLOW SIDE FACING WEST (TOWARD RUNWAY 9 APPROACH)	L-861 OR L-861(L)
R1-64 TO R1-69	CLEAR WHITE	---	L-861 OR L-861(L)
R1-70 TO R1-80	CLEAR WHITE/YELLOW	YELLOW SIDE FACING EAST (TOWARD RUNWAY 27 APPROACH)	L-861 OR L-861(L)
R1-81 TO R1-88	RED/GREEN	GREEN SIDE FACING WEST (TOWARD RUNWAY 9 APPROACH)	L-861E OR L-861E(L)
R1-89 TO R1-93	CLEAR WHITE/YELLOW	YELLOW SIDE FACING EAST (TOWARD RUNWAY 27 APPROACH)	L-861 OR L-861(L)
R1-94 TO R1-105	BLUE	---	L-861T OR L-861T(L)
R1-106 TO R1-111	CLEAR WHITE/YELLOW	YELLOW SIDE FACING EAST (TOWARD RUNWAY 27 APPROACH)	L-861 OR L-861(L)
R1-112 TO R1-118	BLUE	---	L-861T OR L-861T(L)
T1-1 TO T1-114	BLUE	---	L-861T OR L-861T(L)

REVISION DATE 02/19/13	ADDED TWY LIGHTS PER IDA REVIEW				
MACOMB MUNICIPAL AIRPORT MACOMB, ILLINOIS					
BLOCK GRANT PROJ.: 3-17-0064-B21 ILL PROJ.: MQB-4206					
Hanson Proj. No. 12A0053 Filename C-642-SCHD.dwg Scale NOT TO SCALE Date 06/17/13		KNL 01/19/13 TRR 01/21/13 KNL/CAH 02/04/13			
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REPLACE VAULT, AIRFIELD LIGHTING AND GUIDANCE SIGNS	AIRFIELD LIGHTING NOTES AND SCHEDULES				
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