

TAXI GUIDANCE SIGN LIGHTING WIRING SCHEMATIC

## NOTES

- THE TAXI GUIDANCE SIGNS LIGHTING CIRCUIT SHALL BE CONTROLLED AS FOLLOWS: THE TAXI GUIDANCE SIGNS SERIES CIRCUIT SHALL BE SINGLE STEP OPERATION (5.5 AMP CIRCUIT). THE A.T.C.T. (AIR TRAFFIC CONTROL TOWER) WILL CONTROL THE TAXI GUIDANCE SIGNS LIGHTING CIRCUIT WITH A 2-POSITION "OFF-ON" TOGGLE SWITCH ON THEIR L-821 PANEL. WHEN THE A.T.C.T. CLOSES CONTROL WILL BE TRANSFERED TO THE ADMINISTRATION BUILDING L-821 PANEL & PILOT CONTROL THROUGH THE L-854 RADIO RECEIVER. THE ADMINISTRATION BUILDING WILL CONTROL THE TAXI GUIDANCE SIGNS LIGHTING CIRCUIT WITH A 2-POSITION "OFF-ON" TOGGLE SWITCH ON THEIR L-821 PANEL. PILOT CONTROL THROUGH THE L-854 RADIO RECEIVER SHALL BE AS FOLLOWS:
  - 3 CLICKS ON 5 CLICKS — REMAIN ON 7 CLICKS — REMAIN ON
- CONTRACTOR SHALL PROVIDE MODIFICATIONS TO THE A.T.C.T. L-821 PANEL, ADMIN. BUILDING L-821 PANEL, VAULT TRANSFER PANEL #1, VAULT TRANSFER PANEL #2, & THE VAULT RADIO INTERFACE PANEL TO ACCOMPLISH CONTROL CIRCUIT ADDITIONS FOR THE TAXI GUIDANCE SIGNS.
- 3. THE EXISTING CONTROL WIRING DIAGRAMS INCLUDED WITH THIS PLAN SET ARE BASED ON FIELD DATA, REVIEW OF MANUFACTURER DRAWINGS AND REVIEW OF RECORD DRAWINGS. BASED ON FIELD OBSERVATIONS AND REVIEW WITH THE AIRPORT STAFF, MODIFICATIONS HAVE BEEN MADE TO THE AIRFIELD LIGHTING CONTROL SYSTEM AND SOME MFR. DRAWINGS AND RECORD DRAWINGS HAVE CONFLICTING INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS & CONTROL WIRING ARRANGEMENT. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY CONTROL WIRING, TERMINALS, CONNECTIONS, RELAYS, TOGGLE SWITCHES, CONDUITS, JUNCTION BOXES, LABELING, ETC. TO PUT THE TAXI GUIDANCE SIGN LIGHTING SYSTEM INTO PROPER OPERATION.
- 4. THE EXISTING A.T.C.T. L-821 PANEL, ADMIN. BLDG L-821 PANEL, TRANSFER PANEL #1, TRANSFER PANEL #2, AND RADIO INTERFACE PANEL WERE MANUFACTURED BY UNIVERSE INC., 1833 WEST HOVEY AVE, NORMAL, ILLINOIS 61761, PHONE 309-454-5665, FAX: 309-452-2521. THE RADIO INTERFACE PANEL HAS BEEN MODIFIED AND NO LONGER REPRESENTS THE MANUFACTURER'S DRAWINGS, AND NO LONGER OPERATES AS ORIGINALLY DESIGNED. THE OTHER PANELS HAVE ALSO HAD SOME MODIFICATIONS INCLUDING THE ADDITION OF TAXIWAY D CIRCUIT, REMOVAL OF WIND-TEE, REMOVAL OF ADMIN BUILDING CONTROL OF THE AIRPORT ROTATING BEACON, AND REMOVAL OF THE PHOTOCELL CONTROLS FOR THE AIRFIELD LIGHTING. CONTACT UNIVERSE FOR ASSISTANCE WITH CONTROL WORK MODIFICATIONS AND APPROPRIATE COMPONENTS.
- 5. ALL CONTROL CABLE SHALL BE NO. 12 AWG, 600 VOLT CABLE. THERE ARE APPROXIMATE 12 #12 AWG EXISTING SPARE CONTROL WIRES BETWEEN THE VAULT & THE A.T.C.T. THERE ARE ALSO SPARE CONTROL WIRES BETWEEN THE ADMIN BLDG AND THE VAULT. THESE WIRES MAY BE USED IN PLACE FOR THE CONTROL CIRCUIT ADDITIONS FOR THE TAXI GUIDANCE SIGNS.
- ALL ELECTRICAL & CONTROL EQUIPMENT SHALL BE PROPERLY LABELED AND ALL ELECTRICAL & CONTROL CABLES SHALL BE TAGGED.
- 7. ALL CABLES INSIDE THE VAULT SHALL BE IN CONDUIT OR DUCT.
- EQUIPMENT GROUND WIRES SHALL BE INCLUDED WITH EACH NEW BRANCH/FEEDER CIRCUIT & THE NEW CONTROL CIRCUIT TO THE RESPECTIVE CONSTANT CURRENT REGULATOR,
- ALL CONTROL WORK ASSOCIATED WITH THE TAXI GUIDANCE SIGNS LIGHTING CIRCUIT SHALL BE PAID FOR UNDER ITEM AR109200.
- "N" DESIGNATES NEUTRAL FROM THE RESPECTIVE CONTROL PANEL CIRCUIT NEUTRAL CONNECTION.
- ALL CONTROL WORK AND/OR POWER OUTAGES SHALL BE COORDINATED WITH THE AIRPORT MANAGER & THE RESIDENT FINGINFER

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## AIRFIELD SIGNAGE IMPROVEMENTS

AIP PROJECT NO. 3-17-0105-B35 IDA PROJECT NO. UGN-3650

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No.	Drawing Issue Description	Date	By

Date

NOVEMBER 10, 2006

TAXI GUIDANCE SIGN LIGHTING WIRING

831-06	8004
Project Numbe	r
KNL	09/01/06
Layout By	Date
KNL	09/01/06
Designed By	Dote
RMH	11/10/06
Seriewed Bu	Onte

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