

LAMP TRANSCIEVER AND SHORTING DEVICE FAA TYPE NO FA-10715 (COMPONENT OF PAR-56 LAMPHOLDER)

PAR-56 LAMPHOLDER, UNIT 10

AIMING ADJUSTMENT

TUBE CAP ASSEMBLY

CABLE CLAMP (TYPICAL)

GROUNDING LUG

MINIMUM 18" SLACK OF WIRE FOR REMOVAL OF TUBE CAP ASSEMBLY

POLE ADAPTER, (COMPONENT OF FLASHER LIGHT ASSEMBLY) LIR STRUCTURE FIBERGLASS TUBE

CONTRACTOR PROVIDED FIXTURE RETAINING CLIP AND RING

PAR-56 LAMPHOLDER WIRE ASSEMBLY

12 AWG GREEN INSULATED

1/2" NPT NIPPLE

5" X 5" X 3" ALUMINUM JUNCTION BOX WITH RAIN-TIGHT COVER, JACQUITH CAT. NO. L5018

BUTT SPLICE, CRIMP AND TAPE THE WIRES TO 3KV INSULATION EQUIVALENT. APPLY HEAT SHRINK TUBING WITH MASTIC. SEE NOTE 1.

UNIT 9, FLASHER LIGHT ASSEMBLY

FLASHER LIGHT ASSEMBLY TO BE MOUNTED AS CLOSE AS POSSIBLE TO THE TOP OF THE LIR STRUCTURE

LIQUID TIGHT FLEXIBLE METAL CONDUIT FITTING, MALLEABLE IRON, 1/2-14 NPT

1/2" DIA. FLEXIBLE LIQUID TIGHT CONDUIT, SEALTIGHT TYPE HCX, ANACONDA METAL, HOSE DIV. WATERBURY, CONNECTICUT MEETS SPECIFICATIONS

THREE 2 AWG, TYPE U.S.E. POWER CONDUCTORS AND 1-1/2" 6 AWG BARE COPPER GROUND WIRE IN 2" CONDUIT

1-1/2" 6 AWG BARE COPPER GROUND WIRE

GROUNDING ELECTRODE (ROD)

3-1/2" 10 AWG POWER CONDUCTORS, AND 1-1/2" 10 AWG STRANDED, GREEN INSULATED GROUNDING CONDUCTOR IN 1" LIQUID-TIGHT FLEXIBLE CONDUIT

FROM DISTRIBUTION PANEL C-6, UNIT 13

SEE SYSTEM INTERCONNECTION DIAGRAM, SHEET 5 OF 6 FOR CONTINUATION

ONE 12-PAIR, 19 AWG, REA PE-39 OR PE-89 FLASHER CONTROL CABLE FROM REGULATOR SUBSTATION'S SHELTER DEMARC BOX, A-23R. SEE NOTES 2, 4, AND 5.

SEE NOTE 4

ONE 12-PAIR, 19 AWG, REA PE-39 OR PE-89 FLASHER CONTROL CABLE TO NEXT STATION'S FLASHER JUNCTION BOX TB2. SEE NOTE 4.

ONE 6-PAIR, 19 AWG, REA PE-39 OR PE-89 FLASHER CONTROL CABLE IN 1" LIQUID-TIGHT FLEXIBLE CONDUIT. SEE NOTE 4.

THREE 2 AWG, TYPE U.S.E. POWER CABLES AND ONE 6 AWG GROUND WIRE TO NEXT STATION'S FLASHER JUNCTION BOX TB1. SEE NOTE 5.

NOTES:

1. ALL TERMINAL CONNECTORS SHALL BE CRIMPED TO THE CONDUCTORS WITH THE MANUFACTURER'S APPROVED CRIMPING TOOL. THE CRIMPING TOOL SHALL BE APPROVED BY THE RESIDENT ENGINEER.
2. CONDUCTORS OF UNUSED CABLE PAIRS SHALL BE TIED TOGETHER AND CONNECTED TO GROUND.
3. CABLE OVERALL SHIELDS SHALL BE TIED TOGETHER AND CONNECTED TO GROUND.
4. INSTALL 6 AWG BARE COPPER GROUND WIRE IN ALL UNDERGROUND CONDUITS.
5. THE CONTRACTOR SHALL FURNISH AND INSTALL AN NBP PAR-56 LAMPHOLDER RING ON EACH PAR-56 LAMPHOLDER. THIS RING FITS OVER THE LAMP-RETAINING CLIPS, AND HOLDS THE LAMP POSITIVELY IN PLACE. THE RING COMES WITH AN ATTACHED CHAIN HAVING A SS BOLT AT THE FREE END. REPLACE THE LAMPHOLDER'S EXISTING STAINLESS STEEL GROUNDING BOLT WITH THE CHAIN'S BOLT TO MAKE THE RING CAPTIVE.

DETAIL 1

TYPICAL PAR-56 LAMPHOLDER/FLASHER LIGHT INSTALLATION AND WIRE ROUTING

DETAIL 2

TYPICAL WIRING DIAGRAM FOR FLASHER

HNTB

USER NAME: mhovr
PLOT SCALE: 2x
PLOT DATE: 26-DEC-2012

DESIGNED: SJM
DRAWN: SJM
CHECKED: SPG
DATE:

REVISED: -
REVISED: -
REVISED: -
REVISED: 12/28/12 ADDENDUM 1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NAVAIDS
ALSF-2 TYPICAL WIRING DIAGRAM FOR FLASHER

SCALE: N.T.S. SHEET NO. 5 OF 16 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE. 330 SECTION 0105 WRS&H COUNTY COOK TOTAL SHEETS 605 SHEET NO. 605BC CONTRACT NO. 60G37 ILLINOIS FED. AID PROJECT

ADDED SHEET
GLD-08-1