



# NOTES:

- SEE DWG. GLD-01-1 FOR LAMP CENTERLINE AND FOUNDATION TOP ELEVATIONS.
- LIR STRUCTURE SHALL PIVOT AWAY FROM THE RUNWAY THRESHOLD. SEE DRAWING GLD-120-1 FOR LIR TUBE CUTTING LENGTH CALCULATION AND STRUCTURE ASSEMBLY DETAILS. LIR TUBE SHALL BE CUT TO ACCOMMODATE INSTALLATION OF JAOUITH L5023 BREAKAWAY COUPLING KIT.
- SEE SPECIFICATION P-157 FOR EXCAVATION AND BACKFILL REQUIREMENTS. EXCAVATION SHALL BE SHORED OR SHAPED PER OSHA REQUIREMENTS.
- SEE SPECIFICATION P-610 FOR CONCRETE FORMWORK, REINFORCEMENT, MATERIAL, PLACEMENT, AND CURING SPECIFICATIONS.
- ALL CONNECTIONS TO GROUNDING RODS SHALL BE MADE USING EXOTHERMIC WELDS PER SPECIFICATIONS.
- FOUNDATION SHALL BE CONSTRUCTED SUCH THAT CENTER LIR MAST IS CENTERED AT THE RUNWAY STATION SHOWN ON LIGHT BAR AND LAMP SCHEDULE.
- GROUND THE FLASHER JUNCTION BOX AND ICC PER DRAWING GLD-08-1.
- SEE DETAIL "4", DWG. GLD-07-1 FOR 5-LIGHT BAR WIRING AND DRAWING GLD-08-1 FOR FLASHER WIRING AND LAMPHOLDER INSTALLATION DETAILS.
- ATTACH UNISTRUT TO EMT USING 3/8" X 2 1/2" SS BOLTS, FLAT WASHERS, AND NUTS. ICC'S ATTACHING TABS OFFSET BACK OF CABINET FROM EMT WHICH WILL ALLOW INSTALLATION OF BOLT AND WASHER THROUGH EMT AND THROUGH BACK OF UNISTRUT. REMOVE PANEL INSIDE JUNCTION BOX (SECURED USING FOUR NUTS), DRILL THROUGH BACK OF JUNCTION BOX AND INSTALL 1/4" BOLTS AND UNISTRUT SPRING NUTS. REINSTALL PANEL IN JUNCTION BOX. PANEL IS OFFSET FROM BACK OF BOX, BUT INSTALLATION OF ADDITIONAL WASHERS TO OFFSET FURTHER MAY BE NECESSARY TO CLEAR BOLT HEADS.
- THE LOOP CABLE LIGHT BASE SHALL BE A SPECIFICATION FAA-E-1315A LIGHT BASE 16 1/4" I.D., 28" DEEP, CLASS 1B WITH INTERNAL GROUND CLAMP, 17 3/8" COVER PLATE, L-867 WITH GASKET, AND WITH THE FOLLOWING FLEXIBLE GROMMET CONNECTIONS (FLEX CONNEX) IN STANDARD VERTICAL ARRAY: TWO 3" CONNECTIONS AT 0 DEGREES, ONE 2" CONNECTION AT 90 DEGREES, TWO 3" CONNECTIONS AT 180 DEGREES, AND ONE 2" CONNECTION AT 270 DEGREES. THE PLYWOOD SHIPPING COVER SHALL BE 18"-DIA, 1 1/4" DEEP, AND SHALL BE USED AS CONCRETE FORM TO GIVE 3/8"-WIDE ANNULAR SPACE AROUND BASE PLATE. TOP OF COVER SHALL BE FLUSH WITH CONCRETE SURFACE.
- THE FLASHER CABLE LIGHT BASE SHALL BE A SPECIFICATION FAA-E-1315A LIGHT BASE 16 1/4" I.D., 28" DEEP, CLASS 1B WITH INTERNAL GROUND CLAMP, 17 3/8" COVER PLATE, L-867 WITH GASKET, AND WITH THE FOLLOWING 2"-DIA FLEXIBLE GROMMET CONNECTIONS (FLEX CONNEX) IN STANDARD VERTICAL ARRAY: 3 EACH AT 90 DEGREES, TWO EACH AT 225 DEGREES, ONE EACH AT 270 DEGREES, AND TWO EACH AT 315 DEGREES. THE PLYWOOD SHIPPING COVER SHALL BE 18"-DIA, 1 1/4" DEEP, AND SHALL BE USED AS CONCRETE FORM TO GIVE 3/8"-WIDE ANNULAR SPACE AROUND BASE PLATE. TOP OF COVER SHALL BE FLUSH WITH TOP OF CONCRETE.
- SECTIONS AND DETAILS SHOWN ARE TYPICAL. SEE PLAN DRAWINGS TO DETERMINE SPECIFIC STATION REQUIREMENTS AS TO NUMBER OF CONDUITS AND LOCATION OF CONDUIT ENTRANCES INTO BASES.
- FOR MG-20 LIR TOWERS LESS THAN 12'-0", NO WINCH IS REQUIRED TO SAFELY LOWER TOWER FOR MAINTENANCE. OMIT 3'-6" SECTION OF FOUNDATION INCLUDING WINCH CONNECTION ANCHOR BOLTS AND ANCHOR PLATE FOR QUICK RELEASE PIN.
- SEE SHEET GLD-14-5 FOR PLAN VIEW.
- CONCRETE FOUNDATION ANCHOR RODS MUST BE STAINLESS STEEL.
- ANTI-SEIZE COMPOUND MUST BE USED ON ALL THREADED CONNECTIONS.
- RIGID STEEL COUPLINGS SHALL BE INSTALLED PLUMB. THE TOP OF THE COUPLING MUST PROTRUDE 1/4" ABOVE THE TOP OF THE CONCRETE FOUNDATION.
- ALL ALSF LIGHT BAR / TOWER FOUNDATIONS MUST BE CAST-IN-PLACE.
- CONTRACTOR SHALL PROVIDE A STAINLESS STEEL STRAINER TO THE BOTTOM OF THE UNUSED HOLES OF THE MG20 MOUNTING STAND.
- ALL ANCHOR BOLTS AND HARDWARE SHALL BE STAINLESS STEEL. BOLTS USED FOR LIGHT BASE CANS SHALL BE CERAMIC COATED BOLTS PER FAA ENGINEERING BRIEF 83 AND SPECIFICATION SECTION L-100.
- THE REQUIRED MINIMUM BEARING CAPACITY ON SUBGRADE BENEATH THE FOUNDATION SHALL BE 3.0 KSF. THE CONTRACTOR QC MUST VERIFY BEARING BENEATH THE FOUNDATION TO A DEPTH OF 3' MIN. OR DEPTH AS REQUIRED BY THE DIRECTOR.
- SEE SHEET GLD-14-5 FOR CABLE ROUTING UNDER THE LIR TOWER MOUNTING STAND.

ADDED SHEET  
GLD-14-4

## SECTION A - ELEVATION FLASHER ICC AND LIGHT BASE DETAILS OUTSIDE RSA PERMANENT RELOCATED TOWER STA. 20+40.00

HNTB

USER NAME = mh001r	DESIGNED SJM	REVISED -
	DRAWN SJM	REVISED -
PLOT SCALE = 20:1	CHECKED SPG	REVISED -
PLOT DATE = 26-DEC-2012	DATE	REVISED 12/28/12 ADDENDUM 1

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

NAVAIDS  
ALSF-2 - DETAILS FOR MG-20 TOWER LIGHT BAR W/FLASHER  
PIVOT AWAY FROM THRESHOLD (PERMANENT)

SCALE: N.T.S. SHEET NO. 8 OF 16 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	0105 WRS&HB	COOK	605	605BF
				CONTRACT NO. 60637
ILLINOIS FED. AID PROJECT				