

REVISION
DATE

LITCHFIELD MUNICIPAL AIRPORT
LITCHFIELD, ILLINOIS

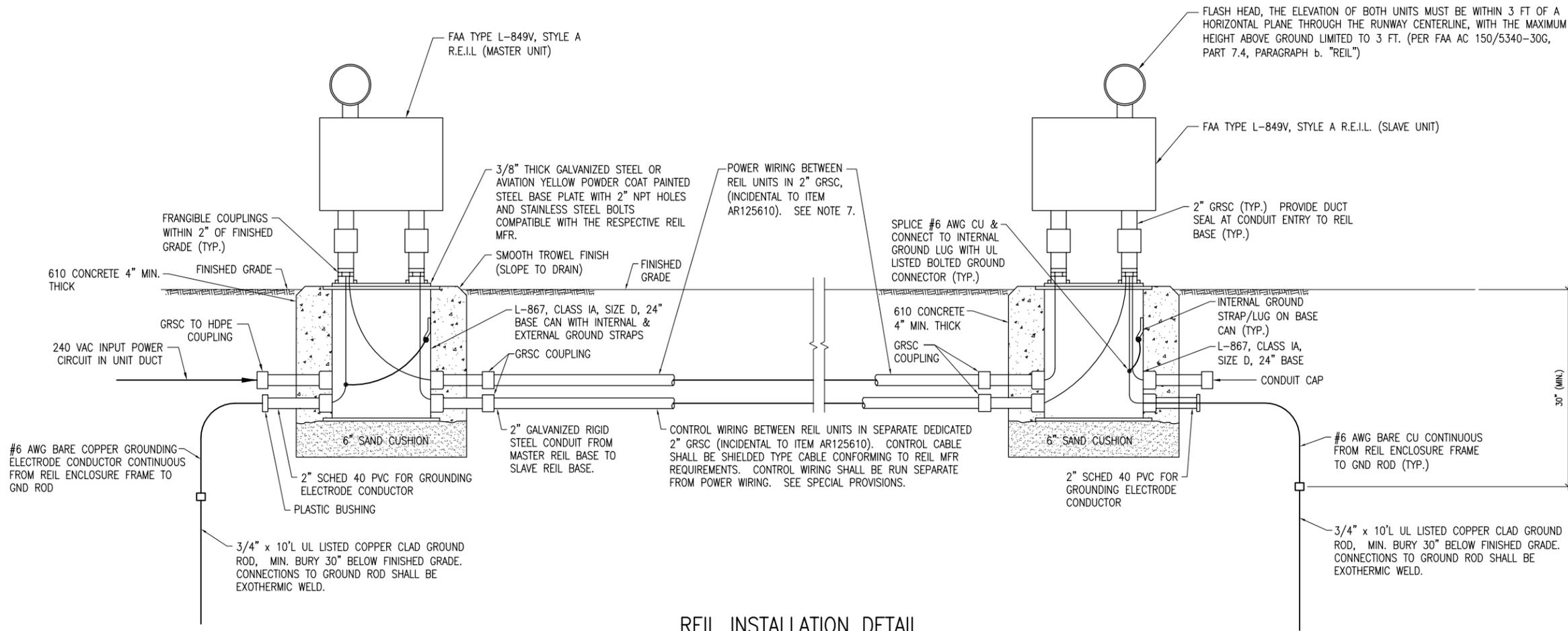
IL PROJ.: 31F-4194 BLOCK GRANT PROJ.: 3-17-0063-B19

Hanson Proj. No. 12A0062D	File Name E-506-DETL.dwg	Scale NOT TO SCALE	Date 01/11/13
LAYOUT	KNL	12/31/12	
DRAWN	BAK	01/03/13	
REVIEWED	CAH/KNL	01/10/13	

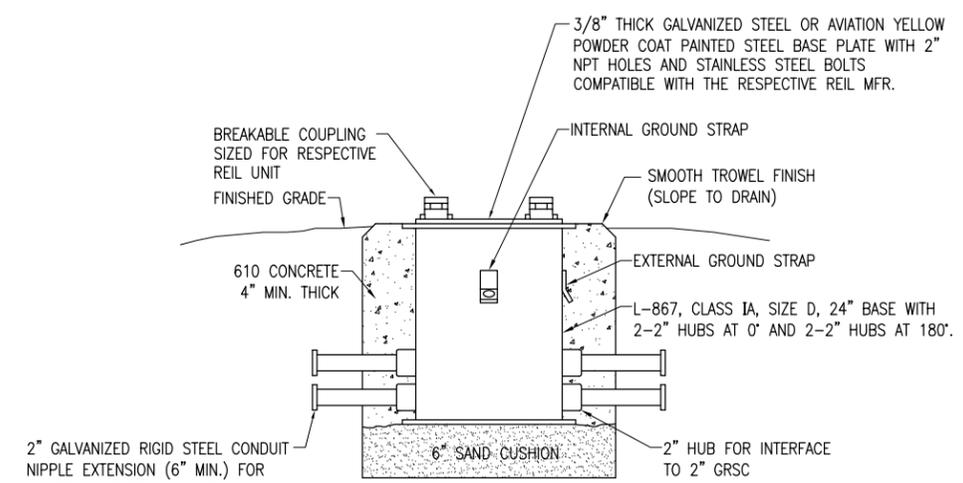
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REALIGN
TAXIWAY "A"

REIL DETAILS AND NOTES



REIL INSTALLATION DETAIL
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REIL BASE DETAIL
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NOTE:
FOR THE PURPOSE OF ENHANCING SAFETY, EACH BASE MUST HAVE INSTALLED, BY THE MANUFACTURER, AN INTERNAL AND EXTERNAL GROUND STRAP THAT IS AVAILABLE FOR THE PURPOSE OF ATTACHING A GROUND LUG THAT IS CONNECTED TO AN EARTH GROUND OR A SAFETY GROUND CONDUCTOR INSTALLED WITH THE RESPECTIVE CIRCUIT. FOR AIRPORT PROJECTS RECEIVING FEDERAL FUNDS THIS REQUIREMENT IS MANDATORY PER FAA AC 150/5345-42F.

REIL INSTALLATION NOTES

- REILS SHALL BE FAA APPROVED TYPE L-849V, STYLE A (UNIDIRECTIONAL, HIGH INTENSITY, ONE BRIGHTNESS STEP), 240 VAC, 60 HZ INPUT POWER. SEE SPECIAL PROVISION SPECS FOR ADDITIONAL REIL REQUIREMENTS.
- REILS SHALL BE AIMED AT ANGLE 10 DEGREES VERTICALLY AND TOED OUT 15 DEGREES FROM THE LINE PARALLEL TO THE RUNWAY CENTERLINE.
- REILS WILL BE PAID FOR UNDER ITEM AR125610 "REILS" PER PAIR.
- ANY AND ALL TRENCHES AND DISTURBED AREAS WILL BE BACKFILLED AND RESTORED TO A SMOOTH GRADE AND SEEDED TO THE SATISFACTION OF THE ENGINEER. ALL TRENCH SETTLEMENT SHALL BE CORRECTED FOR A PERIOD OF ONE YEAR. RESTORATION, GRADING, SEEDING, AND MULCHING OF AREAS DISTURBED DURING THE REIL INSTALLATION AND ASSOCIATED CABLE WILL BE INCIDENTAL TO ITEM AR125610 REILS.
- GROUNDING FOR REILS. GROUNDING FOR REILS SHALL CONFORM TO THE RESPECTIVE REIL MANUFACTURER'S INSTALLATION INSTRUCTIONS, AS DETAILED ON THE PLANS, AND AS SPECIFIED HEREIN. THE POWER CIRCUIT TO MASTER REIL UNIT, AND EACH SLAVE UNIT, SHALL INCLUDE AN EQUIPMENT GROUND WIRE OF THE SAME SIZE AND TYPE AS THE PHASE CONDUCTORS. FURNISH AND INSTALL A 3/4-INCH DIAMETER BY 10-FOOT LONG COPPER CLAD GROUND ROD AT EACH REIL UNIT. GROUND RODS SHALL BE BURIED 30" MINIMUM BELOW GRADE. BOND EACH REIL UNIT HOUSING AND THE REIL BASE CAN TO THE RESPECTIVE GROUND ROD IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS WITH A #6 AWG BARE SOLID OR STRANDED (PER REIL MANUFACTURER REQUIREMENTS) COPPER GROUNDING ELECTRODE CONDUCTOR. ALL CONNECTIONS TO GROUND RODS SHALL BE EXOTHERMIC WELD AS MANUFACTURED BY CADWELD, THERMOWELD, ULTRAWELD OR APPROVED EQUAL. CONNECTIONS TO REIL UNIT FRAMES SHALL BE AS RECOMMENDED BY THE MANUFACTURER OR WITH UL LISTED GROUNDING CONNECTORS. PROVIDE MULTI TERMINAL EQUIPMENT GROUND BAR OR INDIVIDUAL GROUND LUGS TO TERMINATE EACH GROUND WIRE IN EACH REIL UNIT.
- REFER TO PROPOSED ELECTRICAL SITE PLANS FOR SITING AND ORIENTATION OF REIL'S.
- POWER WIRING BETWEEN THE REIL MASTER UNIT AND THE REIL SLAVE UNIT SHALL CONFORM TO THE RESPECTIVE REIL MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS. POWER WIRING SHALL BE TYPE XLP-USE, TYPE XHHW, TYPE THWN, OR EQUIVALENT TYPE WITH 600 VOLT RATED INSULATION. POWER WIRING BETWEEN THE MASTER AND SLAVE UNITS WILL VARY DEPENDING UPON THE MANUFACTURER, POWER WIRING BETWEEN THE MASTER REIL UNIT AND SLAVE REIL UNIT SHALL BE AS FOLLOWS FOR THE RESPECTIVE REIL MANUFACTURER AND MODEL:
 - FOR FLASH TECHNOLOGY TYPE L-849V MODEL 812 SERIES, 240 VAC REILS THE POWER WIRING BETWEEN THE MASTER UNIT AND THE SLAVE UNIT SHALL BE MINIMUM 2#12 XLP-USE, #12 GROUND (WITH GREEN INSULATION), FOR POWER FROM A 20 AMP (MAX), 2-POLE, 240 VAC BREAKER.
 - FOR STROBE APPROACH LIGHTING TYPE L-849V MODEL PSUV-101/102 240 VAC REILS THE POWER WIRING BETWEEN THE MASTER UNIT AND THE SLAVE UNIT SHALL BE MINIMUM 2#12 XLP-USE, #12 GROUND (WITH GREEN INSULATION), FOR POWER FROM A 20 AMP (MAX), 2-POLE, 240 VAC BREAKER.
 - FOR ADB AIRFIELD SOLUTIONS TYPE L-849V, ORDERING CODE 44A1161 SERIES, 240 VAC REILS THE POWER WIRING BETWEEN THE MASTER UNIT AND THE SLAVE UNIT SHALL BE 2#12 XLP-USE, 1#12 XLP-USE FOR "ON" SIGNAL, 1#12 NEUTRAL (WITH WHITE INSULATION), #12 GROUND (WITH GREEN INSULATION), FOR POWER FROM A 20 AMP (MAX), 2 POLE, 240 VAC BREAKER.
 - CONTRACTOR SHALL CONFIRM WIRING WITH THE RESPECTIVE REIL MANUFACTURER AND CONFORM TO THEIR REQUIREMENTS.

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