

RUNWAY 2 MALSR SHELTER PANEL SCHEDULE			
CKT #	DUTY	SIZE	CKT #
1	SUB FEED BOLT-ON	125A 2P	2
3	2 POLE LUGS FOR MALSR	---	4
5	CONVENIENCE RECEPTACLES	20A 1P	6
7	SPARE	20A 1P	8
9	SPARE	20A 1P	10
11	SPARE	20A 1P	12
13	HVAC UNIT	20A 2P	14
15		---	16
17	BLANK		18
19	BLANK		20
21	BLANK		22
23	BLANK		24
25	BLANK		26
27	BLANK		28
29	BLANK		30

SIZE	DUTY	CKT #
15A 1P	INTERIOR LIGHTS	2
20A 1P	CONVENIENCE RECEPTACLES	4
15A 1P	EXTERIOR LIGHTS	6
10A 1P	AIR TO GROUND RADIO RECEIVER	8
15A 1P	SPARE	10
15A 1P	SPARE	12
30A 1P	SPARE	14
	BLANK	16
	BLANK	18
	BLANK	20
	BLANK	22
	BLANK	24
	BLANK	26
	BLANK	28
	BLANK	30

GND S/N

225 AMP, 120/240 VAC, 1 PHASE, 3 WIRE, 30 CIRCUIT PANELBOARD WITH TOP FEED MAIN LUGS SUITABLE FOR TWO SETS OF CONDUCTORS, IN A NEMA 1 ENCLOSURE. INCLUDE SEPARATE GROUND BAR KITS. ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE WITH 10,000 AIC AT 120/240 VAC. PANELBOARD SHALL BE SQUARE D COMPANY CAT. NO. NQOD30L225CU, WITH NQOD225SFL SUB-FEED LUG KIT, WITH NEMA 1 SURFACE MOUNT ENCLOSURE, OR APPROVED EQUAL.

NOTES

- PANELBOARD BUS SHALL BE COPPER. NEUTRAL BUS SHALL BE COPPER. EQUIPMENT GROUND BARS SHALL BE COPPER.
- INCLUDE ENGRAVED PHENOLIC LEGEND PLATE LABELED "RWY 2 MALSR PANEL, 120/240 VAC, 1 PHASE, 3 WIRE".
- CONTRACTOR SHALL CONFIRM POWER REQUIREMENTS WITH THE RESPECTIVE EQUIPMENT NAMEPLATE DATA AND ADJUST CIRCUIT BREAKER SIZES TO CONFORM WITH NEC & MANUFACTURER'S RECOMMENDATIONS WHERE APPLICABLE.
- 15 AMP & 20 AMP, BRANCH CIRCUITS LOCATED INSIDE THE MALSR SHELTER SHALL USE #12 AWG THWN COPPER CONDUCTORS (MINIMUM). FOR 20 AMP BRANCH CIRCUITS NO MORE THAN 9 #12 AWG CURRENT CARRYING CONDUCTORS SHALL BE INSTALLED IN THE SAME RACEWAY. ADJUST/INCREASE CABLE SIZES WHERE MORE THAN 3 CURRENT CARRYING CONDUCTORS ARE INSTALLED IN A SINGLE RACEWAY, PER THE REQUIREMENTS OF NEC 310.15(B)(2).
- BRANCH CIRCUITS SHALL INCLUDE EQUIPMENT GROUND WIRES.
- 120/240 VAC BRANCH CIRCUIT CONDUCTORS SHALL BE COLOR CODED PHASE A - BLACK, PHASE B - RED, NEUTRAL - WHITE, GROUND - GREEN.

RUNWAY 2 MALSR POWER DISTRIBUTION PANEL SCHEDULE			
CKT #	DUTY	SIZE	CKT #
1	THRESHOLD LIGHTS CKT NO. 1	30A 1P	2
3	THRESHOLD LIGHTS CKT NO. 2	30A 1P	4
5	MALS CIRCUIT NO. 3	15A 1P	6
7	MALS CIRCUIT NO. 4	15A 1P	8
9	MALS CIRCUIT NO. 5	15A 1P	10
11	MALS CIRCUIT NO. 6	15A 1P	12

SIZE	DUTY	CKT #
15A 1P	MALS CIRCUIT NO. 7	2
15A 1P	MALS CIRCUIT NO. 8	4
15A 1P	MALS CIRCUIT NO. 9	6
15A 1P	MALS CIRCUIT NO. 10	8
15A 1P	MALS CIRCUIT NO. 11	10
15A 1P	SPARE	12

GND S/N

100 AMP, 120/240 VAC, 1 PHASE, 3 WIRE, 12 CIRCUIT (MINIMUM) PANELBOARD WITH BOTTOM FEED MAIN LUGS SUITABLE FOR TWO SETS OF CONDUCTORS, IN AN OVERSIZED NEMA 3R (RAIN PROOF) & NEMA 12 (DUST-TIGHT) ENCLOSURE WITH HINGED COVER. INCLUDE SEPARATE GROUND BAR KITS. ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE WITH 10,000 AIC AT 120/240 VAC. PANELBOARD SHALL BE SQUARE D COMPANY CAT. NO. NQOD12L100CU, WITH NQOD100SFL SUB-FEED LUG KIT, & MH32WP ENCLOSURE WITH TRIM KIT, OR APPROVED EQUAL. SEE NOTE 4.

NOTES

- PANELBOARD BUS SHALL BE COPPER. NEUTRAL BUS SHALL BE COPPER. EQUIPMENT GROUND BARS SHALL BE COPPER.
- INCLUDE ENGRAVED PHENOLIC LEGEND PLATE LABELED "RWY 2 MALSR POWER DIST. PANEL, 120/240 VAC, 1 PHASE, 3 WIRE".
- THE 2/0 AWG MALSR THRESHOLD BAR CABLES SHALL BE SPLICED TO 8 AWG STRANDED CABLE TO FIT THE LUGS OF THE 30 AMP BREAKERS. THE 4 AWG CABLES FOR THE RESPECTIVE MALSR CIRCUITS SHALL BE SPLICED TO 8 AWG STRANDED CABLE TO FIT THE LUGS OF THE 15 AMP BREAKERS. SEE FAA DRAWING DKB-D-MALSR-02-E02 FOR SPLICING REQUIREMENTS.
- ENCLOSURE SHALL HAVE AN ADDITIONAL 12" OF GUTTER SPACE AT THE BOTTOM TO ACCOMMODATE RESPECTIVE FEEDER & BRANCH CIRCUIT CONDUCTORS. ENCLOSURE SHALL BE SQUARE D CAT. NO. MH32WP, OR APPROVED EQUAL, WITH THE FOLLOWING SQUARE D HARDWARE:
 CAT. NO. 8011028804 12" RAIL EXTENSIONS (TWO ARE REQUIRED)
 CAT. NO. 8011029104 12" DEAD FRONT EXTENSION
 CAT. NO. 8011028901 DEAD FRONT MOUNTING BRACKETS (TWO ARE REQUIRED)
 CAT. NO. 8002506701 SCREWS FOR DEAD FRONT EXTENSION (TWO ARE REQUIRED)
 CAT. NO. 2159017081 SCREWS FOR RAIL EXTENSION (FOUR ARE REQUIRED)
 CONFIRM ALL CATALOG NUMBERS WITH THE RESPECTIVE EQUIPMENT MANUFACTURER.

JUN 26, 2007 10:01 AM DMV
 I:\AIRPORTS\DEKALB\803-06ELEC\AIRPORT\SHEETS\AUTO-CADD SHEETS\E-603.DWG - Work

BY		REVISION		DATE	
DIMAX DENALB TAYLOR MUNICIPAL AIRPORT ILL. PROJ.: DKB-3225 A.I.P. PROJ.: 3-17-0139-B37					
HANSON PROJECT No. 803-06ELEC Filename: E-603.DWG Scale: NONE Date: 06/21/07	LAYOUT DRAWN: KNL REVIEWED: CAH	03/19/07 03/19/07 03/29/07	MV CAH		
HANSON Hanson Professional Services Inc. 1245 South State Street Springfield, Illinois 62703-2886 Offices Nationwide					
INSTALL MALSR & GLIDE SLOPE			MALSR PANEL SCHEDULES RUNWAY 02 DKB-D-MALSR02-E06		
32					
32 of 48 sheets					