



LEGEND PLATE SCHEDULE	
DEVICE	LABEL
SERVICE PANELBOARD IN VETERAN'S HANGAR	SERVICE & MAIN DISTRIBUTION PANEL 120/240VAC, 1PH, 3W
MAIN BREAKER IN SERVICE PANELBOARD AT VETERAN'S HANGAR	SERVICE DISCONNECT
TERMINAL GATE OPERATOR SAFETY SWITCH	TERMINAL GATE 120/240VAC FED FROM VETERAN'S HGR SERVICE PANEL

NOTE: LEGEND PLATES SHALL BE WEATHERPROOF ENGRAVED PLASTIC OR PHENOLIC MATERIAL, 1/4" HIGH BLACK LETTERS ON A WHITE BACKGROUND UNLESS NOTED OTHERWISE. SECURE WITH WEATHERPROOF ADHESIVE AND MACHINE SCREWS. FURNISH ADDITIONAL LEGEND PLATES WHERE REQUIRED BY CODE, FOR ADDITIONAL EQUIPMENT, AS DETAILED HEREIN ON THE PLANS, AND AS NOTED IN THE SPECIAL PROVISION SPECIFICATIONS.

- NOTES**
- SEE "ELECTRICAL LEGEND AND ABBREVIATIONS" SHEET FOR GENERAL NOTES AND REQUIREMENTS.
 - ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70-NATIONAL ELECTRICAL CODE (NEC) MOST CURRENT ISSUE IN FORCE, THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE U.L. LISTING, ETL LISTING, (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE SHALL NOT BE PERMITTED.
 - ALL EQUIPMENT SHOWN NOT LABELED AS EXISTING IS NEW.
 - ALL FIXED WIRING IN THE RESPECTIVE HANGAR SHALL BE IN METAL RACEWAYS TO COMPLY WITH THE REQUIREMENTS OF NEC 513.7.
 - ALL CONTROL POWER TRANSFORMERS, POWER SUPPLIES, RECEPTACLES, LOOP DETECTOR AMPLIFIERS, SECONDARY SAFETY DEVICE EQUIPMENT, AND ANY OTHER ASSOCIATED CONTROLS SHALL BE INSTALLED EITHER INSIDE THE GATE OPERATOR CONTROL PANEL OR INSIDE A SEPARATE NEMA 4 STAINLESS STEEL CONTROL PANEL ENCLOSURE. WHERE THE CONTROL EQUIPMENT IS TO BE INSTALLED INSIDE THE GATE OPERATOR CONTROL PANEL THE CONTRACTOR SHALL COORDINATE THIS WITH THE GATE OPERATOR MANUFACTURER AND THE RESPECTIVE GATE OPERATOR EQUIPMENT SUPPLIER. LOCATING THESE CONTROLS OUTSIDE OF GATE OPERATOR CONTROL PANEL BUT WITHIN THE GATE OPERATOR HOUSING WILL NOT MEET THIS REQUIREMENT.
 - ALL WORK SHOWN ON THIS SHEET SHALL BE PAID FOR UNDER ITEM AR800467 - GATE OPERATOR.
 - COORDINATE ELECTRIC SERVICE ENTRANCE WORK & UPGRADES WITH THE SERVING ELECTRIC UTILITY COMPANY; AMEREN CIPS PHONE: 1-888-789-2477.

VETERAN'S HANGAR SERVICE PANELBOARD SCHEDULE						
CKT #	DUTY	SIZE		SIZE	DUTY	CKT #
1	50 AMP 125/250V RECEPTACLE	50A 2P		20A 1P (UNKNOWN)		2
3				20A 1P (UNKNOWN)		4
5	SPARE	30A 2P		20A 1P (UNKNOWN)		6
7				20A 1P (UNKNOWN)		8
9	(UNKNOWN)	20A 1P		20A 1P (UNKNOWN)		10
11	(UNKNOWN)	20A 1P		20A 1P (UNKNOWN)		12
13	(UNKNOWN)	20A 1P		20A 1P (UNKNOWN)		14
15	(UNKNOWN)	20A 1P		20A 1P (UNKNOWN)		16
17	(UNKNOWN)	20A 1P		20A 1P (UNKNOWN)		18
19	(UNKNOWN)	20A 1P		20A 1P (UNKNOWN)		20
21	SPARE	30A 1P		20A 1P RECEPTACLES AT PANEL		22
23	GATE OPERATOR	30A 2P		20A 1P SPARE		24
25				20A 1P SPARE		26
27	AC SURGE PROTECTOR	30A 2P		100A 2P SERVICE MAIN BREAKER		28
29						30

225 AMP, 120/240 VAC, 1 PHASE, 3 WIRE, 30 CIRCUIT MAIN LUGS PANELBOARD WITH A 100 AMP, 2 POLE BACK FED MAIN BREAKER RATED 10,000 AIC AT 120/240 VAC IN A NEMA 12 ENCLOSURE WITH HINGED COVER, UL LISTED SUITABLE FOR SERVICE ENTRANCE, SQUARE D CLASS 1630, CAT. NO. NQ0D30L225CU WITH MH32WP ENCLOSURE, OR APPROVED EQUAL. INCLUDE COPPER EQUIPT GROUND BAR. BRANCH BREAKERS SHALL BE BOLT-ON TYPE WITH 10,000 AIC AT 120/240 VAC. PANELBOARD BUSSES INCLUDING NEUTRAL SHALL BE COPPER.

- NOTES**
- PANELBOARD SHALL BE INSTALLED IN THE SAME LOCATION AS THE EXISTING LOAD CENTER THAT IS BEING REPLACED. PROVIDE STRUT SUPPORT FOR NEW PANEL. TOP OF PANELBOARD ENCLOSURE SHALL BE 6'-0" NOMINALLY ABOVE FINISHED FLOOR. BOTTOM OF PANEL ENCLOSURE AND CONDUITS TO OR FROM THE PANEL ENCLOSURE, SHALL NOT EXTEND INTO THE AREA 18" ABOVE THE HANGAR FLOOR TO COMPLY WITH NEC 513.
 - INCLUDE PHENOLIC ENGRAVED LEGEND PLATE LABELED "SERVICE & MAIN DISTRIBUTION PANEL, 120/240 VAC, 1 PH, 3W".
 - PROVIDE ADDITIONAL LEGEND PLATE OR PLACARD FOR PANELBOARD LABELED "NOTICE AIRCRAFT SHALL MAINTAIN 5 FT. MINIMUM CLEARANCE FROM ELECTRICAL EQUIPMENT PANELS". LETTERING SHALL BE 1/2" HIGH ON WHITE OR RED BACKGROUND.
 - INCLUDE WITH PANELBOARD A U.L. LISTED PER UL 1449, AC SURGE PROTECTOR SUITABLE FOR 120/240 VAC, 1 PH, 3W PLUS GROUND SYSTEM, WITH SURGE CURRENT RATING OF 40KA (MIN.), 8x20 MICROSECOND WAVE, PER MODE, AND STATUS INDICATION LIGHTS, JOSLYN MODEL 1265-21, SQUARE D CAT. NO. TVS120XR40S OR APPROVED EQUAL. MAINTAIN LEADS AS SHORT & AS STRAIGHT AS POSSIBLE.
 - RECONNECT EXISTING BRANCH CIRCUITS TO NEW PANELBOARD. FIELD VERIFY EXISTING UNKNOWN CIRCUITS AND IDENTIFY THEM ON THE NEW CIRCUIT DIRECTORY.
 - LABEL MAIN SERVICE BREAKER "SERVICE DISCONNECT".
 - FURNISH & INSTALL TWO-DUPLEX, 120 VAC SPEC GRADE, 20 AMP, NEMA 5-20R UL LISTED GROUND FAULT CIRCUIT INTERRUPTER TYPE RECEPTACLES IN A DOUBLE GANG CAST/WEATHERPROOF OUTLET BOX WITH STAINLESS STEEL COVER PLATE. LOCATE ADJACENT TO PANEL. PROVIDE 1 #12 THWN, 1 #12 NEUTRAL, 1 #12 GND IN 3/4" GRSC NIPPLE FROM PANEL TO RECEPTACLES.

PROPOSED TERMINAL GATE OPERATOR ELECTRICAL ONE LINE DIAGRAM

LW023

BY	
REVISION	
DATE	

**MID-AMERICAN AIR CENTER
 LAWRENCEVILLE-VINCENNES AIRPORT
 LAWRENCEVILLE, ILLINOIS**

IL. PROJ.: LW-3869 A.I.P. PROJ.: 3-17-0061-B15

Hanson Project No. 08A0185D.0800	
Estimate E-603.DWG	
Scale NONE	
Date 01/20/09	
LAYOUT KNL 01/06/09	
DRAWN MW 01/07/09	
REVIEWED JSL 01/09/09	



**FRONTAL AREA
 FENCE INSTALLATION**

**PROPOSED TERMINAL GATE
 ELECTRICAL ONE-LINE
 DIAGRAM**