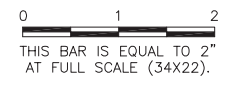


UN051

REVISIONS

NUMBER	BY	DATE

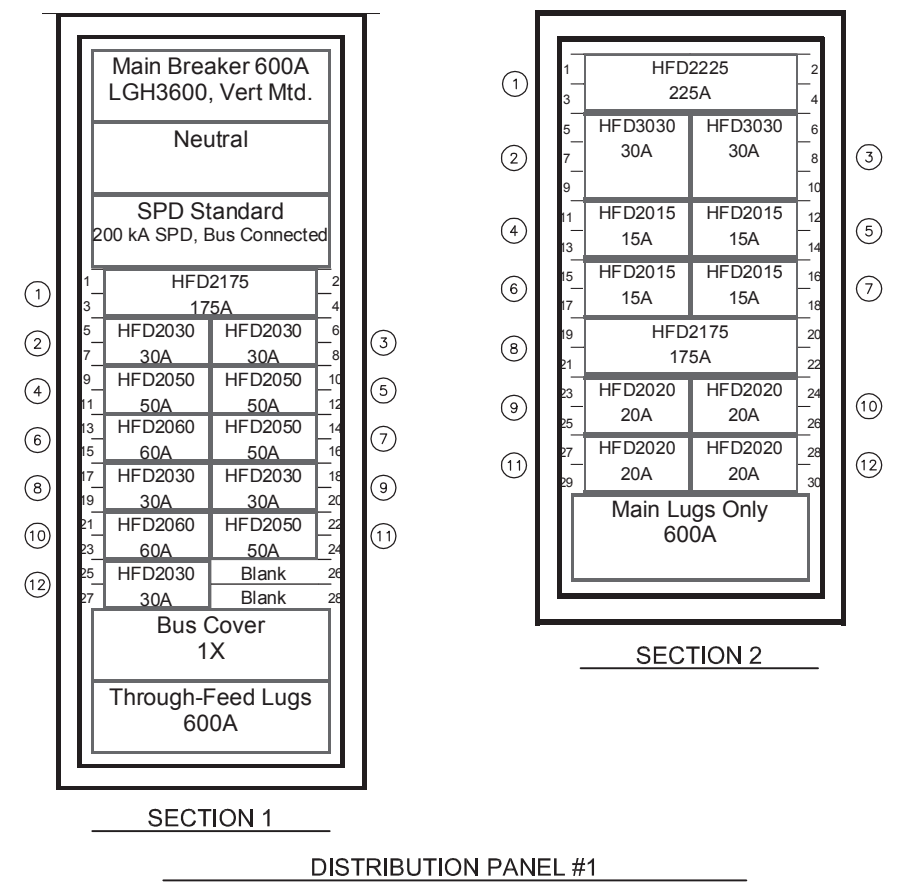


PANELBOARD SCHEDULE																
PANEL DESIGNATION: PANEL #2				BOND NEUTRAL AND GROUND BAR: NO				POLE: 42								
LOCATION: NEW VAULT				NEUTRAL BUS RATING: 100%				SHORT CIRCUIT RATING: 22KA								
				SERVICE ENTRANCE RATED: NO				SERIES OR FULLY RATED: FULLY								
				TVSS & DISCONNECT REQUIRED: NO												
VOLTS: 120/240				MOUNTING: SURFACE				BUS RATING (AMPS): 400								
PHASE: 1				ENCL RATING: NEMA 1				BUS: COPPER; SILVER OR TIN PLATED								
WIRE: 3								MAIN CIRCUIT BREAKER: 400/2								
CKT NO.	LOAD	BREAKER SIZE	LOAD AMPS	USAGE FACTOR	PHASE AMPS		POLE NO.	PHASE AMPS		USAGE FACTOR	LOAD AMPS	BREAKER SIZE	LOAD	CKT NO.		
					A	B		A	B							
1	INTERIOR LIGHTS	20/1	15	1	15		1	2	4	0.25	16	20/1	INTERIOR RECEPTACLES	2		
3	EXTERIOR LIGHTS & EXT LIGHTS	20/1	5	1		5	3	4		1	14	20/1	EXHAUST FAN & LOUVERS	4		
5	FAA RVR RLIM	20/1	4	1	4		5	6	1		1	20/1	HEATER CONTROL	6		
7	L-890 SYSTEM	20/1	10	1		10	7	8		0.25	16	20/1	EXTERIOR RECEPTACLES	8		
9	L-890 SYSTEM	20/1	10	1	10		9	10	5		1	5	20/1	L-854 RADIO CONTROLLER (PCAL)	10	
11	RUNWAY GUARD LIGHTS S.E.	20/2	7	1		7	11	12			6	1	6	20/1	WIND SOCK	12
---	---	---	7	1	7		13	14	0		0	60	60/2	SPARE REGULATOR #4	14	
15	RUNWAY GUARD LIGHTS N.W.	20/2	7	1		7	15	16			0	0	60	---	---	---
---	---	---	7	1	7		17	18	92		1	92	125/2	SPARE REGULATOR #5	18	
19	SPARE REGULATOR #2	90/2	70	0		0	19	20			92	1	92	---	---	---
---	---	---	70	0	0		21	22	0		0	70	90/2	SPARE REGULATOR #6	22	
23	SPARE REGULATOR #3	90/2	70	0		0	23	24			0	70	---	---	---	---
---	---	---	70	0	0		25	26	0				20/1	SPARE	26	
27	SPARE	20/1				0	27	28					20/1	SPARE	28	
29	SPARE	20/1				0	29	30	0				20/1	SPARE	30	
31	SPARE	20/1				0	31	32					20/1	SPARE	32	
33	SPARE	20/1				0	33	34	0				20/1	SPARE	34	
35	SPARE	20/1				0	35	36					20/1	SPARE	36	
37	SPARE	20/1				0	37	38	0				20/1	SPARE	38	
39	SPARE	20/1				0	39	40					20/1	SPARE	40	
41	SPARE	20/1				0	41	42	0				20/1	SPARE	42	
SECTION TOTAL:					43	29		102	116							
MINIMUM MAIN CIRCUIT BREAKER AMPS:					227	PHASE TOTAL AMPS:		145	145	TOTAL USAGE LOAD:		34800	VA			
					PHASE TOTAL VA:		17400	17400	MIN. XFMR VA:		43500	VA				

RUNWAY AND TAXIWAY REGULATOR CIRCUITING						
CKT. I.D.	TYPE	KW	INPUT	OUTPUT	STEP	AIRFIELD CIRCUITS POWERED
R1	L-829	10 KW	480V	6.6A	3-STEP	RUNWAY 18/36
R2	L-829	50 KW	480V	20A	5-STEP	RUNWAY 14L/32R
R3	L-829	10 KW	480V	6.6A	5-STEP	RUNWAY 4/22
R4	L-829	15 KW	480V	6.6A	3-STEP	RUNWAY 14R/32L
T1	L-829	10 KW	480V	6.6A	3-STEP	CENTER TAXIWAY
T2/3	L-829	15 KW	480V	6.6A	3-STEP	TAXIWAY C (NW)
T4/5	L-829	15 KW	480V	6.6A	3-STEP	TAXIWAY A (SE)
T7	L-829	20 KW	480V	6.6A	3-STEP	TAXIWAY B (SW)
T8	L-829	10 KW	480V	6.6A	3-STEP	TAXIWAY D (NE)

NOTES:
 1. TO COMPLY WITH "LOCK-OUT / TAG-OUT" REQUIREMENTS, ALL FEEDER CIRCUIT BREAKERS IN PANEL #1 SHALL INCLUDE A FACTORY-INSTALLED PADLOCK KIT.
 2. WIRING BETWEEN PANEL #1 SECTION #1 & SECTION #2: THREE 350 MCM THWN, ONE #1/0 GROUND.

WILLARD AIRPORT
 UNIVERSITY OF ILLINOIS
 NEW AIRFIELD LIGHTING VAULT
 NEW VAULT DETAILS 2



DISTRIBUTION PANELBOARD #1 SCHEDULE		
SECTION #1	SECTION #2	
277Y/480V, 3-PHASE, 4-WIRE (NEUTRAL REQUIRED FOR SPD ONLY)	480V, 3-PHASE, 3-WIRE (NO NEUTRAL)	
1 RUNWAY 14L/32R REGULATOR, 50 KW, 175A, 2P	1 PANEL #2 TRANSFORMER, 75 KVA, 225A, 2P	
2 RUNWAY 4/22 REGULATOR, 10 KW, 30A, 2P	2 UNIT HEATER UH-1, 10 KW, 30A, 3P	
3 RUNWAY 18/36 REGULATOR, 10 KW, 30A, 2P	3 UNIT HEATER UH-2, 10 KW, 30A, 3P	
4 RUNWAY 14R/32L REGULATOR, 15 KW, 50A, 2P	4 PAPI 14L, 15A, 2P	
5 TAXIWAY A (SE) REGULATOR, 15 KW, 50A, 2P	5 PAPI 32R, 15A, 2P	
6 TAXIWAY B (SW) REGULATOR, 20 KW, 60A, 2P	6 PAPI 14R, 15A, 2P	
7 TAXIWAY C (NW) REGULATOR, 15 KW, 50A, 2P	7 PAPI 32L, 15A, 2P	
8 TAXIWAY D (NE) REGULATOR, 10 KW, 30A, 2P	8 SPARE REGULATOR #1, 50 KW, 175A, 2P	
9 CENTER TAXIWAY REGULATOR, 10 KW, 30A, 2P	9 SPARE CIRCUIT BREAKER, 20A, 2P	
10 SPARE CIRCUIT BREAKER, 60A, 2P	10 SPARE CIRCUIT BREAKER, 20A, 2P	
11 SPARE CIRCUIT BREAKER, 50A, 2P	11 SPARE CIRCUIT BREAKER, 20A, 2P	
12 SPARE CIRCUIT BREAKER, 30A, 2P	12 SPARE CIRCUIT BREAKER, 20A, 2P	

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DESIGN BY: WDP
 DRAWN BY: CMT
 CHECKED BY: JEH
 APPROVED BY: JEH
 DATE: APRIL 20, 2012
 JOB No: 11059-03
 ILL. PROJ. NO. CMI-4100
 AIP PROJ. NO. 3-17-0016-XX
 SHEET 52 OF 60 SHEETS