

EXISTING MAIN SWITCH ITEM NO. 1 LOCATION ELEC 15 BUILDING NAME OR NO. AVIONICS
VOLTS 480Y277 PHASE 3 WIRES MCB MLO 800 A. SHEET of BY LLE

CIRC NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD V A			LOAD SERVED	CIRC NO.	TRIP AMPS	NO. POLES
				A	B	C				
1			EXISTING MDP	149,825			PANEL "PP1"	2		
3				149,825	149,825	149,825		4		
5				149,825	149,825	149,825		6		
7				149,825	149,825	149,825		8		
9				149,825	149,825	149,825		10		
11				149,825	149,825	149,825		12		
13				149,825	149,825	149,825		14		
15				149,825	149,825	149,825		16		
17				149,825	149,825	149,825		18		
19				149,825	149,825	149,825		20		
21				149,825	149,825	149,825		22		
23				149,825	149,825	149,825		24		
25				149,825	149,825	149,825		26		
27				149,825	149,825	149,825		28		
29				149,825	149,825	149,825		30		
31				149,825	149,825	149,825		32		
33				149,825	149,825	149,825		34		
35				149,825	149,825	149,825		36		
37				149,825	149,825	149,825		38		
39				149,825	149,825	149,825		40		
41				149,825	149,825	149,825		42		

TOTAL CONNECTED LOAD 531.4 KVA TOTAL 177,985 177,982 175,565 DEMAND LINE AMPS 511.4
ESTIMATED DEMAND LOAD 425.1 KVA FEEDER 2SETS 4" 350' LENGTH 10' VOLTAGE DROP 0.5 0.1 %

PANEL "LP1" VOLTS 208Y120 10KALC PHASE 3 WIRES 4 MCB MLO 450 A. SHEET of BY KB

CIRC NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD V A			LOAD SERVED	CIRC NO.	TRIP AMPS	NO. POLES
				A	B	C				
1	400	3	AIS SHOP BUS DKT	29,618			PANEL "LP1"	2	40	3
3				29,618	29,618	29,618		4		
5				29,618	29,618	29,618		6		
7	80	3	PANEL "LP1"	7,500			SPACE ONLY	8	150	3
9				7,500	7,500	7,500		10		
11				7,500	7,500	7,500		12		
13	100	3	SPACE ONLY					14		
15								16		
17								18		
19								20		
21								22		
23								24		
25								26		
27								28		
29								30		
31								32		
33								34		
35								36		
37								38		
39								40		
41								42		

TOTAL CONNECTED LOAD 1477 KVA TOTAL 49,120 49,620 48,970 DEMAND LINE AMPS 328.00
ESTIMATED DEMAND LOAD 1181.8 KVA FEEDER 450A LENGTH 25' VOLTAGE DROP .00 %

PANEL "PP1" VOLTS 480Y277 22KALC PHASE 3 WIRES 4 MCB MLO 225 A. SHEET of BY KB

CIRC NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD V A			LOAD SERVED	CIRC NO.	TRIP AMPS	NO. POLES
				A	B	C				
1	20	3	EDH-2H,5	2222			EDH-1,2	2	20	3
3				2222	2222	2222		4		
5				2222	2222	2222		6		
7	45	3	CJ-1	1662			CJ-2	8	100	3
9				1662	1662	1662		10		
11				1662	1662	1662		12		
13	20	3	AHJ-1	1002			AHJ-2	14	20	3
15				1002	1002	1002		16		
17				1002	1002	1002		18		
19	100	3	SPACE ONLY				SPACE ONLY	20	100	3
21								22		
23								24		
25								26		
27								28		
29								30		
31								32		
33								34		
35								36		
37								38		
39								40		
41								42		

TOTAL CONNECTED LOAD 24.2 KVA TOTAL 28,116 28,116 28,116 DEMAND LINE AMPS 101.5
ESTIMATED DEMAND LOAD 24.2 KVA FEEDER 200A LENGTH 100' VOLTAGE DROP 1.4 0.3 %

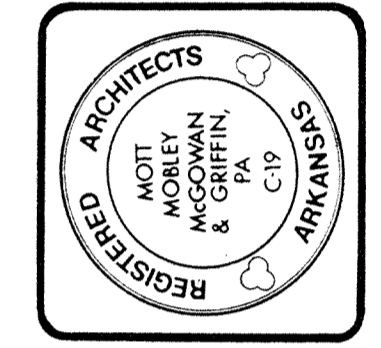
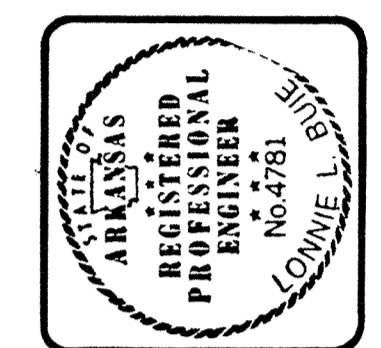
PANEL "LP" VOLTS 208Y120 10KALC PHASE 3 WIRES 4 MCB MLO 225 A. SHEET of BY KB

CIRC NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD V A			LOAD SERVED	CIRC NO.	TRIP AMPS	NO. POLES
				A	B	C				
1	20	1	L13. CLASSROOM 21	1000			REC. AIS SHOP	2	20	1
3	20	1	L15. CLASSROOM 21	1000			REC. AIS SHOP	4	20	1
5	20	1	REC. 12 AIS	1000			REC. AIS SHOP	6	20	1
7	20	1	REC. 13 TEST DEP	1000			HVAC CONTROL PLS	8	20	1
9	20	1	TEL. TERM. BLD	1000			REC. ESS CONT. & CH.	10	20	1
11	20	1	B-1 CIRC. PUMP	1000			SPARE ①	12	20	1
13	20	1	SPARE				SPARE	14	20	1
15	20	1	PANIC BUTTON CONTROL DOOR SH.	500			SPARE	16	20	1
17	20	1	SPARE				SPARE	18	20	1
19	20	1	SPARE				SPARE	20	20	1
21	20	1	SPARE				SPARE	22	20	1
23			SPACE ONLY				SPACE ONLY	24		
25								26		
27								28		
29								30		
31								32		
33								34		
35								36		
37								38		
39								40		
41								42		

TOTAL CONNECTED LOAD 11.8 KVA TOTAL 4,000 4,100 3,720 DEMAND LINE AMPS 26.1
ESTIMATED DEMAND LOAD 9.4 KVA FEEDER 40A LENGTH 60' VOLTAGE DROP .98 %



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Fort Smith, Arkansas 72901



PROJECT NO. FSM-40997
ADD/ALTER AVIONICS/ECM POD SHOP/STORAGE
AIR NATIONAL GUARD TRAINING FACILITY
MUNICIPAL AIRPORT - FT. SMITH, ARKANSAS

SCHEDULES

As-built info:
4-12-90
Revisions
1357
Plan Number
E1.6
11-16-88
Date