

THIS DRAWING PRODUCED ON THE SOUTHWEST REGION MICROSTATION SYSTEM

DIFFUSER, REGISTER, AND GRILLE SCHEDULE							
MARK	SERVES	CFM RANGE	TYPE	FACE SIZE IN x IN	NECK SIZE DIA	MANUFACTURER AND MODEL	REMARKS
CD-1	SUPPLY AIR	50-150	LOUVERED	24x24	6	TITUS TMSA-NT	
CD-2	SUPPLY AIR	150-300	LOUVERED	24x24	8	TITUS TMSA-NT	
CD-3	SUPPLY AIR	300-500	LOUVERED	24x24	10	TITUS TMSA-NT	
D-1	NOT USED						
D-2	SUPPLY AIR	50-150	LINEAR SLOT	4x48	6	TITUS TBD-80-NT	
D-3	SUPPLY AIR	150-300	LINEAR SLOT	4x48	8	TITUS TBD-80-NT	
D-4	NOT USED						
D-5	SUPPLY AIR	150-300	ROUND	12" DIA	8"	TITUS TMR	
D-6	SUPPLY AIR	300	LINEAR SLOT	60x3 1/2	10" OVAL	TITUS MP-38	
ER-1	EXHAUST AIR	50-150	EGGCRATE	24x24	-	TITUS 50R-NT	
ER-2	EXHAUST AIR	50-150	EGGCRATE	24x24	-	TITUS 50R	
RR-1	RETURN AIR	0-1200	LOUVERED	24x24	-	TITUS 23R-NT	
GR-1	SUPPLY AIR	1000	BAR	18X18	-	TITUS 30R	
GR-2	SUPPLY AIR	100	BAR	6X6	-	TITUS 301R-HD	
GR-3	SUPPLY AIR	250	BAR	10X10	-	TITUS 301R-HD	
GR-4	SUPPLY AIR	300	BAR	10X10	-	TITUS 30R	
GR-5	EXHAUST AIR	450	BAR	12X12	-	TITUS 30R	
GR-6	EXHAUST AIR	275	BAR	10X10	-	TITUS 30R	
GR-7	RETURN AIR	880	BAR	20X20	-	TITUS 30R	
GR-8	SUPPLY AIR	440	BAR	14X12	-	TITUS 30R	

ELECTRIC UNIT HEATER SCHEDULE														
MARK	LOCATION	SERVES	SCFM	CAPACITY				MOTOR DATA				MANUFACTURER AND MODEL	REMARKS	
				KW	VOLT	PH	HZ	HP	RPM	VOLTS	PH			HZ
UH-1	ATCT GROUND LEVEL	STAIRWELL	100	4.0	208	1	60	1/100	1600	208	1	60	BERKO FRC-4020A	24 VOLT CONTROL
UH-2	CABLE ACCESS LEVEL	STAIRWELL	100	4.0	208	1	60	1/100	1600	208	1	60	BERKO FRC-4020A	24 VOLT CONTROL
UH-3	EG ROOM	ENGINE GENERATOR	650	10.0	460	3	60	1/30	1600	460	3	60	BERKO HUHA-1048	24 VOLT CONTROL

BOILER SCHEDULE											
MARK	LOCATION	SERVES	TYPE	INPUT (MBH)	OUTPUT (MBH)	WATER			FUEL	MANUFACTURER AND MODEL	REMARKS
						EW	LW	GPM			
B-1	MECH RM	HOT WATER	CAST IRON	130	108	164.4	185	9.6	NAT GAS	BURNHAM 205AH	6" VTR

HYDRONIC ACCESSORIES SCHEDULE										
MARK	LOCATION	SERVES	MAX FLOW GPM	TANK VOL GAL	ACCEPT VOL GAL	MAX DIMENSIONS		OPER PRESS PSI	MANUFACTURER AND MODEL	REMARKS
						LENGTH	DIAMETER			
XT-1	MECH RM	HOT WATER	-	22	5	50"	12"	150	B & G D-40	HORIZONTAL
AS-1	MECH RM	HOT WATER	80	--	--	--	--	150	B & G RL-3F	
XT-2	EG BLDG, RM 127	CHILLED WATER	-	22	5	50"	12"	150	B & G D-40	HORIZONTAL
AS-2	EG BLDG, RM 127	CHILLED WATER	124	--	--	--	--	150	B & G RL-3F	

PUMP SCHEDULE												
MARK	LOCATION	SERVES	TYPE	GPM	TOTAL HEAD FT WG	MOTOR DATA				MANUFACTURER AND MODEL	REMARKS	
						HP	RPM	VOLTS	PH			HZ
P-1	MECH RM	HOT WATER	INLINE	12	22	1/2	1760	120	1	60	BELL & GOSSETT 11/2A	
P-2	MECH RM	HOT WATER	INLINE	12	22	1/2	1760	120	1	60	BELL & GOSSETT 11/2A	STANDBY
P-3	EXTERIOR	CHILLED WATER	BASE	124	105	10	1750	460	3	60	BELL & GOSSETT 1510-2E	(1)
P-4	EXTERIOR	CHILLED WATER	BASE	124	105	10	1750	460	3	60	BELL & GOSSETT 1510-2E	STANDBY (1)

CONSTANT VOLUME FAN POWERED TERMINAL UNIT SCHEDULE													
MARK	INLET DIAMETER	PRIMARY AIR		MOTOR DATA			FAN DATA		HW REHEAT COIL DATA		MANUFACTURER AND MODEL	REMARKS	
		CFM MAX	CFM MIN	HP	VOLT	PH	HZ	CFM MAX	ESP IN WG	ROW			BTUH
VAV-1 - 4	10"	1000	100	1/4	277	1	60	1000	0.3	1	17500	1/2	TITUS "TQS"
VAV-5 - 8	8"	700	100	1/4	277	1	60	700	0.3	1	10000	1/4	TITUS "TQS"

(1) WITH TEFC MOTOR

NOTE: PRIMARY AIR IS VARIABLE VOLUME

FILTER SCHEDULE										
MARK	SERVES	TYPE	CFM	MAX FACE VEL FPM	PD (IN WG)		NUMBER AND SIZE	MIN AVG EFF ASHRAE	MANUFACTURER AND MODEL	REMARKS
					INITIAL	FINAL				
F-1	CRU-3, 4	THROWAWAY PLEATED	1250	500	0.28	0.90	1 - 16x25x4	30%	BY CRU MFG	
F-2	AHU-1	CARTRIDGE	4250	550	0.68	1.2	2 - 24x24x12	95%	AMERICAN AIR FILTER, VERICELL	
F-3	AHU-1	THROWAWAY PLEATED	4250	550	0.28	0.90	2 - 24x24x2	30%	AMERICAN AIR FILTER, PERFECT PLEAT	
F-4	EG ROOM	THROWAWAY PLEATED	4725	500	0.28	0.90	12 - 24x24x2	30%	AMERICAN AIR FILTER, PERFECT PLEAT	
F-5	AHU-2, 3	CARTRIDGE	3600	600	0.68	1.2	1 - 24x24x12, 1 - 12x24x12	95%	AMERICAN AIR FILTER, PERFECT PLEAT	
F-6	AHU-2, 3	THROWAWAY PLEATED	3600	600	0.28	0.90	1 - 24x24x2, 1 - 12x24x2	30%	AMERICAN AIR FILTER, VERICELL	
F-7	AHU-4, 5	CARTRIDGE	4650	580	0.68	1.2	2 - 12x24x12, 1 - 24x24x12	95%	AMERICAN AIR FILTER, PERFECT PLEAT	
F-8	AHU-4, 5	THROWAWAY PLEATED	4650	580	0.28	0.90	1 - 24x24x2, 2 - 12x24x2	30%	AMERICAN AIR FILTER, VERICELL	
F-9	VAV - 1 - 8	THROWAWAY PLEATED	900	500	0.20	0.80	1 - 13x11.5x1	20%	AMERICAN AIR FILTER	
F-10	CRU-1, 2	THROWAWAY PLEATED	1800	500	0.28	0.90	2 - 28x30x2	30%	BY CRU MFG	
F-11	EF-3	WASHABLE	100	500	0.10	0.50	1 - 9x11x1/4	--	GREENHECK	
F-12	FCU-1, 2, 3	THROWAWAY PLEATED	1000	500	0.20	0.80	4 - 10x10x1	20%	AAF	

FAN SCHEDULE												
MARK	LOCATION	SERVES	CFM	TOTAL SP IN WG	FAN RPM	MOTOR DATA				TYPE	MANUFACTURER AND MODEL	REMARKS
						HP	VOLTS	PH	HZ			
SPF-1	ATCT GROUND LEVEL	STAIRWELL PRESSURE	4000	5/8	773	2	460	3	60	UTILITY	GREENHECK SFB-15	ESSENTIAL POWER
SVF-1	JUNCTION LEVEL	VESTIBULE SUPPLY	1200	5/8	1323	3/4	460	3	60	UTILITY	GREENHECK SFB-9	ESSENTIAL POWER
SVF-2	LOWER INTERMEDIATE LVL	VESTIBULE EXHAUST	1800	5/8	2480	1	460	3	60	INLET	GREENHECK BSQ-100-10	ESSENTIAL POWER

EXHAUST FAN SCHEDULE													
MARK	LOCATION	SERVES	FAN TYPE/ DRIVE TYPE	CFM	TOTAL SP IN WG	MOTOR DATA				FAN RPM	MANUFACTURER AND MODEL	SONES	REMARKS
						HP	VOLTS	PH	HZ				
EF-1	BASE BLDG ROOF	RESTROOM, JANITOR	ROOF/BELT	1050	1/2	1/4	120	1	60	1180	GREENHECK GB-120-4	8.4	INTERLOCK WITH AHU-1
EF-2	EG BUILDING ROOF	EG RESTROOM	ROOF/DIRECT	100	1/4	1/60	120	1	60	1300	GREENHECK G-65G	2.7	INTERLOCK WITH AHU-1
EF-3	JUNCTION LEVEL	RESTROOM	CABINET/DIRECT	75	1/4	49 W	120	1	60	950	GREENHECK SP-210	1.6	
EF-4	EG BLDG ROOF	EG ROOM	ROOF/DIRECT	300	3/8	1/20	120	1	60	1550	GREENHECK G-80D	7.4	

NOTES:
1. FOR GENERAL NOTES, SEE DRAWING M001-A.

A		06-23-03	FAA REDESIGN OF HVAC, JON 21874.	9700164	06-23-03
REV	DATE	DESCRIPTION		JCN	REDLINE DATE
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION FORT WORTH IMPLEMENTATION CENTER FORT WORTH, TX LOW ACTIVITY LEVEL ATCT HVAC EQUIPMENT SCHEDULES					
ADDISON		ADDISON AIRPORT		TX	
REVIEWED BY	SUBMITTED BY	APPROVED BY			
	<i>Mike Owen</i> 7/21/02	<i>Johnnie L. White</i> 7/19/03			
DESIGNED	PROJECT ENGINEER, ANI-630	PLATFORM MANAGER, ANI-630			
DRAWN	M. DOERR	ISSUED BY	DATE	JCN	REV
CHECKED	KS	NAS IMPLEMENTATION ANI-600	06-23-03	9700164	
				DRAWING NO	9700164
				ADS-D-ATCT-M002	A

m:\a\hvac\active\user\project\m002.dgn 07/17/2003 09:53:06 File Name