

0

1

2

3

4

5

6

7

8

9

NOT TO SCALE

0

1

2

3

4

5

6

7

8

9

three inches = one foot

0

1

2

3

4

5

6

7

8

9

one and one-half inches = one foot

0

1

2

3

4

5

6

7

8

9

one inch = one foot

0

1

2

3

4

5

6

7

8

9

three-quarters inch = one foot

0

1

2

3

4

5

6

7

8

9

one-half inch = one foot

0

1

2

3

4

5

6

7

8

9

three-eighths inch = one foot

0

1

2

3

4

5

6

7

8

9

one-quarter inch = one foot

0

1

2

3

4

5

6

7

8

9

one-eighth inch = one foot

EXISTING SCHEDULE OF HEATING VENTILATING AND AIR CONDITIONING UNITS

MARK NO.	NO. REQUIRED	AREA SERVED	SUPPLY FAN AND DRIVE				SUMMER COOLING AND DEHUMIDIFYING						WINTER HEATING OR AIR TEMPERING						AIR FILTERS		HUMIDIFIER		REMARKS	MINIMUM OUTSIDE AIR CFM						
			MIN. CAPACITY STD. AIR (70°F) CFM	MAX. OUTLET VELOCITY FPM	EXT. AIRFLOW FRICTION IN W.G.	MIN. MOTOR SIZE H.P.	ENTERING AIR		LEAVING AIR		MINIMUM HEAT DISSIPATED BTU/HR	CHILLED WATER SUPPLY		COOLING COIL		ENTERING AIR-DRY BULB TEMP. °F	LEAVING AIR-DRY BULB TEMP. °F	MINIMUM HEATING CAPACITY BTU/HR	MAXIMUM STEAM PRESSURE PSIG	MIN. STEAM TRAP CAPACITY LBS./HR	HEATING COIL		TYPE	MAX. FACE VEL FPM	CAPACITY LBS./HR	SUPPLY RUNOUT				
							DRY BULB TEMP. °F	WET BULB TEMP. °F	DRY BULB °F	WET BULB °F		MAX. FLOW G.P.M.	ENTERING WATER TEMP. °F	MAX. FACE VEL. FPM	FIN SPACE FINS/IN	MAX. WATER FLOW FRICTION PSI				MAX. FACE VEL. FPM	FIN SPACE FINS/IN									
HAC-1	1	THEATER GROUP	14200	1600	1.5	7.5	87.5	72.5	54.8	53.8	885,000	220	43°	500	7	13.0	40.0	54.8	226,000	30	726	500	7	LOW VELOCITY	300	203	2-1/2"	--	7,100	RECENTLY REPLACED AIR HANDLER
HAC-2	1	BILLIARDS AND BOWLING	3890	1600	--	1.5	83.8	69.8	57.4	56.2	171,500	35	43°	500	7	2.0	--	55.0	--	30	--	500	7	LOW VELOCITY	300	28	1-1/4"	NO PREHEAT COIL REQUIRED	980	
HAC-3	1	RECREATION AREA	6590	1600	--	3	83.8	69.8	54.8	53.7	334,000	76	43°	500	7	4.0	--	55.0	--	30	--	500	7	LOW VELOCITY	300	47	1-1/4"	NO PREHEAT COIL REQUIRED	1,650	
HAC-4	1	OFFICES, ETC.	8200	1600	--	5	83.8	69.8	59.1	53.1	316,000	35	43°	500	7	2.0	--	55.0	--	30	--	500	7	LOW VELOCITY	300	58	1-1/4"	NO PREHEAT COIL REQUIRED	2,050	RECENTLY REPLACED AIR HANDLER
HAC-5	1	LIBRARY GROUP	4160	1600	--	2	83.8	69.8	59.2	58.0	162,000	24	43°	500	7	1.0	--	55.0	--	30	--	500	7	LOW VELOCITY	300	30	1-1/4"	NO PREHEAT COIL REQUIRED	1,040	
HAC-6	1	CANTEEN GROUP	8910	1600	--	5	83.8	69.8	56.2	54.9	423,000	73	43°	500	7	3.0	--	55.0	--	30	--	500	7	LOW VELOCITY	300	64	1-1/2"	NO PREHEAT COIL REQUIRED	2,230	
HV-1	1	LIBRARY GROUP	6300	1600	--	2	--	--	--	--	--	--	--	--	--	--	10	76.6	431,500	30	1452	500	7	LOW VELOCITY	300	--	--	--	300	ORIGINAL EQUIPMENT REPLACED AND MODIFIED IN 1994 CANTEEN RENOVATION.
HV-2	1	CANTEEN GROUP	2730	1600	--	1	--	--	--	--	--	--	--	--	--	--	10	81.0	210,000	30	678	500	7	LOW VELOCITY	300	--	--	--	2,730	

EXISTING SCHEDULE OF CENTRIFUGAL PUMPS

MARK	SERVICE	LOCATION	MIN. CAPACITY GPM	MIN. TOTAL HEAD FT. WC	PUMP CONTROL		
					MIN HP	MAX SPEED RPM	ELECTRICAL
1	CHILLED WATER	EQUIP RM AB3	463	65	10	1800	480-3-60
2	CHILLED WATER	EQUIP RM AB3	463	65	10	1800	480-3-60
3	COND. WATER	EQUIP RM AB3	580	65	10	1800	480-3-60

EXISTING SCHEDULE OF STEAM PRV'S

PRV NO	SERVICE	INLET PRESS PSIG	OUTLET PRESS PSIG	INLET PIPE SIZE	BY-PASS PIPE SIZE	OUTLET PIPE SIZE	MIN. CAP PRESS RELIEF VALVE
-	MAIN	60	28	4"	2"	4"	3000
-	MAIN	60	30	3"	1-1/2"	3"	1500
-	HUMIDIFIER	50	5	2-1/2"	1-1/4"	3"	500

EXISTING CONVERTOR SCHEDULE

UNIT NO.	LOCATION	SYSTEM	TYPE	STEAM PSIG	CAP. G.D.M.	TEMP. DIFF.		AUTO TEMP. REG. VALVE				TRAP LBS./HR	
						IN °F	OUT °F	CAPACITY LBS. STM/HR	WATER TEMP. RANGE °F				
									FROM	TO	SET AT		
90-C1	MECH. EQUIP. RM.	H.W. RADIATION HTG.	SHELL AND TUBE	30	5	180	200	55	180	220	200	350	
90-C2	POOL SER. RM.	POOL WATER HTG.	SHELL AND TUBE	30	103	SEE CONTROL DIAGRAM, DRAWING NO. 90-H1						1300	

EXISTING REHEAT COIL SCHEDULE

MARK NO.	TOTAL AIR CFM	CAPACITY BTU/HR	ENT AIR °F	LVG AIR °F	STEAM PRESS PSI	STEAM #/HR	TRAP SIZE #/HR	MAX. FACE VELOCITY FPM	RUN OUTS	
									SUPPLY	RETURN
1/A	800	24,560	54.8	87.9	30	26.4	79.2	500	1"	1"
1/B	5150	168,000	54.8	81.4	30	160.0	480.0	500	2"	1"
1/C	5150	148,000	54.8	81.4	30	160.0	480.0	500	2"	1"
1/D	1930	65,080	54.8	85.2	30	70.0	210.0	500	1-1/2"	1"
1/E	1120	63,630	54.8	107.3	30	68.5	205.5	500	1-1/2"	1"
2/A	2080	100,550	55.0	99.8	30	108.0	324.0	500	1-1/2"	1"
2/B	1810	57,690	55.0	83.9	30	62.0	186.0	500	1-1/4"	1"
3/A	6590	214,450	55.0	85.2	30	232.0	696.0	500	2-1/2"	1-1/4"
4/A	690	24,860	55.0	88.3	30	27.0	81.0	500	1"	1"
4/B	3685	96,280	55.0	79.1	30	105.0	315.0	500	1-1/2"	1"
4/C	550	16,400	55.0	82.8	30	18.0	54.0	500	1"	1"
4/D	930	27,650	55.0	82.5	30	30.0	90.0	500	1"	1"
4/E	1825	81,520	55.0	96.2	30	88.0	264.0	500	1-1/2"	1"
4/F	520	11,700	59.1	80.0	30	12.6	37.8	500	1"	1"
5/A	2760	107,530	55.0	91.1	30	116.0	348.0	500	1-1/2"	1"
5/B	500	19,170	55.0	90.5	30	21.0	63.0	500	1"	1"
5/C	180	4,540	55.0	78.4	30	5.0	15.0	500	1"	1"
5/D	720	32,130	55.0	96.4	30	35.0	105.0	500	1-1/4"	1"
6/A	1400	35,300	55.0	78.3	30	38.0	114.0	500	1-1/4"	1"
6/B	6540	163,500	56.2	80.0	30	176.0	528.0	500	2"	1"
6/C	540	27,960	55.0	102.9	30	30.0	90.0	500	1"	1"
6/D	430	11,990	55.0	80.8	30	13.0	39.0	500	1"	1"

EXISTING COOLING TOWER SCHEDULE

MARK	
REFRIGERATION EFFECT	193 TONS
WATER QUANTITY	580 GPM
WATER IN	95 °F
WATER OUT	85 °F
WET BULB	78 °F
MIN. FAN MOTOR	7.5 HP, 480V, 3Ø

EXISTING SCHEDULE OF UNIT HEATERS

UNIT NO.	LOCATION	TYPE UNIT	MIN. BTU/HR	CFM	AIR TEMP.		STEAM		TRAP LBS./HR	MOTOR	
					ENT. °F	LVG. °F	LBS/HR	PSIG		NOM. H.P.	PHASE - VOLT
90-UH1	MECH. EQUIP. RM.	HORIZ.	15,000	300	60	106	20	30	200	1/45	1-120
90-UH2	POOL SER. RM.	HORIZ.	15,000	300	60	106	20	30	200	1/45	1-120

NOTE: EXISTING EQUIPMENT DATA IS SHOWN FOR REFERENCE PURPOSE ONLY. FIELD VERIFY ALL EXISTING CONDITIONS, EQUIPMENT, ETC.

EXISTING 1960 HVAC SCHEDULES - BUILDING 90

NOT TO SCALE

Approved:

Approved:

Approved:

Approved:

Approved:

Approved:

Approved:

Approved:

Drawing Title

EXISTING 1960 HVAC SCHEDULES BUILDING 90

Safety Officer

Clinical Representative

Project Title

HVAC MODIFICATIONS TO BUILDINGS 83, 90, & 93 TUSKEGEE, ALABAMA

Building Number 90

Checked RDW

Drawn JAD

Location East Campus, Tuskegee, AL

Date 12/21/10

Project No. 619-10-445

Drawing No. 90M1.1

Drawn 19 of 59

Revisions

Date

ALABAMA REGISTERED PROFESSIONAL ENGINEER No. 15978 CHUCKLES CRAIG MILLS

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Central Alabama Veterans Health Care System

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