AIR HANDLING UNIT SCHEDULE

UNIT NUMBER	LOCATION	HEATING COIL NUMBER	COOLING COIL NUMBER	AIRFLOW (CFM)	ESP (IN WG)	MOTOR HP	POWER SUPPLY VOLTS/PHASE	MIN WHEEL DIA (IN)	WHEEL TYPE	APPROX WEIGHT (LBS)	UNIT CONFIGURATION	REMARKS
AHU-101	RM 102	-	CC-101	2990	1.75	2	480/3	15	FC	400	F30, CC, FNV	1D, 2, 3

WHEEL TYPE NOTES:
FC - FORWARD CURVED
AF - AIRFOIL
BI - BACKWARD INCLINED

UNIT CONFIGURATION NOTES:
F30 - FILTER SECTION WITH 30% FILTERS FNV - FAN SECTION, VERTICAL ARRANGEMENT CC - COOLING COIL

REMARKS: 1 - VIBRATION ISOLATOR A) RUBBER PAD B) RUBBER MOUNT C) RUBBER HANGER D) SPRING MOUNT E) SPRING HANGER F) RESTRAINED SPRING MOUNT
2 - FILTER VELOCITY SHALL NOT EXCEED 350 FEET PER MINUTE
3 - COOLING COIL VELOCITY SHALL NOT EXCEED 550 FEET PER MINUTE

SPLIT SYSTEM CONDENSING UNIT SCHEDULE

UNIT NUMBER	LOCATION	CAPACITY (BTUH)	EAT (F)	SUCTION TEMPERATURE (F)		POWER SUPPLY VOLTS/PHASE	MINIMUM CIRCUIT AMPACITY	APPROX WEIGHT (LBS)	REMARKS
				MINIMUM	MAXIMUM				
CU-101	RM 101	83780	95	35	45	480/3	15.5	400	1

REMARKS: 1 - HOT GAS BYPASS KIT

NOTES: 1. OUTDOOR COIL ENTERING AIR TEMPERATURE:
COOLING - 95 F MAX/ 50 F MIN
2. THE EQUIPMENT SHALL HAVE A MINIMUM EFFICIENCY AT THE ARI STANDARD RATING CONDITIONS OF NOT LESS THAN THE FOLLOWING:
>65,000<135,000 BTUH - 10.3 EER
3. THE FOLLOWING EQUIPMENT SHALL HAVE THE MINIMUM NUMBER OF CAPACITY STEP REDUCTIONS OR STAGES:
CU-101 - 1 COOLING STEPS 0 HEATING STAGES

FAN SCHEDULE

UNIT NUMBER	LOCATION	AIRFLOW (CFM)	ESP (IN WG)	MOTOR HP	POWER SUPPLY VOLTS/PHASE	MINIMUM WHEEL DIA (IN)	WHEEL TYPE	DRIVE	APPROX WEIGHT (LBS)	REMARKS
DF-101	RM 114	200	0.375	1/12	120/1	8	C	D	40	1E
DF-102	RM 101	2100	0.75	3/4	480/3	14	C	B	140	1E
DF-103	RM 116	900	0.50	1/4	120/1	10	C	B	85	1E
DF-104	RM 117	150	0.375	1/12	120/1	8	C	D	40	1E
DF-105	RM 118	4200	0.625	1.5	480/3	20	C	B	220	1E
DF-106	RM 119	1700	0.375	1/2	480/3	12	C	B	95	1E
DF-107	RM 120	900	0.375	1/3	120/1	9	C	B	75	1E
DF-108	RM 123	900	0.375	1/3	120/1	9	C	B	75	1E, 4
DF-109	RM 125	900	0.375	1/3	120/1	9	C	B	75	1E, 2
DF-110	RM 122	4200	0.50	1	480/3	20	C	B	140	1E
DF-111	RM 116	900	0.375	1/4	120/1	10	C	B	85	1E
PF-101	RM 115	2/2000	0.375	2	480/3	36	P	B	260	2/2
PF-102	RM 115	2/2000	0.375	2	480/3	36	P	B	260	2/2
PF-103	RM 115	2/2000	0.375	2	480/3	36	P	B	260	2/2
PF-104	RM 115	2/2000	0.375	2	480/3	36	P	B	260	2/2
PF-105	RM 116	2/4800	0.5	3	480/3	42	P	B	320	2/2
PF-106	RM 116	2/4800	0.5	3	480/3	42	P	B	320	2/2

WHEEL TYPE NOTES: C - CENTRIFUGAL P - PROPELLER
DRIVE NOTES: D - DIRECT B - BELT

REMARKS: 1 - VIBRATION ISOLATOR A) RUBBER PAD B) RUBBER MOUNT C) RUBBER HANGER D) SPRING MOUNT E) SPRING HANGER F) RESTRAINED SPRING MOUNT
2 - PROTECTIVE COATING SUITABLE FOR A DIHYDROGEN HEXAFLUOROSILICATE ATMOSPHERE
3 - NOT USED 2/2
4 - PROTECTIVE COATING SUITABLE FOR A SULFURIC ACID ATMOSPHERE

COIL SCHEDULE

UNIT NUMBER	SERVICE	AIRFLOW (CFM)	AIR PD (IN WG)	EAT		LAT (FDB)	CAPACITY (BTUH OR (KW))		EWT (F)	WATER FLOW (GPM)	WATER PD (FT)	REMARKS
				(FDB)	(FWB)		SENSIBLE	TOTAL				
CC-101	DX	2990	-	80	63.5	55.6	72670	83780	-	-	-	

CAPACITY NOTE:
CAPACITIES LISTED IN PARENTHESES ARE IN UNITS OF "KW". CAPACITIES LISTED WITHOUT PARENTHESES ARE IN UNITS OF "BTUH".

AIR DEVICE SCHEDULE

SYMBOL	MODEL	FRAME/BORDER	MATERIAL	FINISH	DAMPER TYPE	ACCESSORIES	REMARKS
SD-1	PAS	LAY-IN	STEEL	BAKED WHITE ENAMEL	---	-	
SR-1	300RS	EXPOSED DUCT	STEEL	BAKED WHITE ENAMEL	OPPOSED BLADE	-	
SR-2	300RS	SURFACE MOUNT	STEEL	BAKED WHITE ENAMEL	OPPOSED BLADE	-	
RR-1	PAR	LAY-IN	STEEL	BAKED WHITE ENAMEL	---	-	
RR-2	350RL	SURFACE MOUNT	STEEL	BAKED WHITE ENAMEL	---	-	
ER-1	350RL	EXPOSED DUCT	STEEL	BAKED WHITE ENAMEL	---	-	
ER-2	350RL	SURFACE MOUNT	STEEL	BAKED WHITE ENAMEL	---	-	

NOTES: 1. EQUIPMENT SCHEDULE MODEL NUMBERS BASED ON TITUS.
2. ALL DIFFUSER CORE STYLES ARE 4-WAY UNLESS OTHERWISE INDICATED ON THE PLANS.

PACKAGED AIR CONDITIONING UNIT SCHEDULE

UNIT NUMBER	LOCATION	AIRFLOW (CFM)	ESP (IN WG)	INDOOR FAN MOTOR HP	POWER SUPPLY VOLTS/PHASE	MINIMUM CIRCUIT AMPACITY	COOLING				HEATING			OA (CFM)	APPROX WEIGHT (LBS)	REMARKS
							EAT		CAPACITY (BTUH)		EAT (FDB)	TYPE	CAPACITY (BTUH OR (KW))			
							(FDB)	(FWB)	SENSIBLE	TOTAL						
PAC-101	OUTSIDE RM 124	10500	0.875	7.5	480/3	94.4	85.1	65.5	322420	324520	-		-	75	5000	1A,2,3B,4,5

HEATING TYPE NOTES:
E - ELECTRIC
NG - NATURAL GAS
AUX - AUXILIARY ELECTRIC

CAPACITY NOTE:
CAPACITIES LISTED IN PARENTHESES ARE IN UNITS OF "KW". CAPACITIES LISTED WITHOUT PARENTHESES ARE IN UNITS OF "BTUH"

REMARKS: 1 - ECONOMIZER CONTROLS A) DRY BULB B) ENTHALPY C) DIFFERENTIAL ENTHALPY
2 - HOT GAS BYPASS KIT
3 - FILTERS A) 1 INCH PLEATED B) 2 INCH PLEATED
4 - FILTER VELOCITY SHALL NOT EXCEED 350 FEET PER MINUTE
5 - POWER EXHAUST

NOTES: 1. OUTDOOR COIL ENTERING AIR TEMPERATURE:
COOLING - 95 F MAX/ 0 F MIN
2. THE EQUIPMENT SHALL HAVE A MINIMUM EFFICIENCY AT THE ARI STANDARD RATING CONDITIONS OF NOT LESS THAN THE FOLLOWING:
>135,000 BTUH - 8.1 EER
3. THE FOLLOWING EQUIPMENT SHALL HAVE THE MINIMUM NUMBER OF CAPACITY STEP REDUCTIONS OR STAGES:
PAC-101 - 2 COOLING STEPS 0 HEATING STAGES

MAKEUP AIR UNIT SCHEDULE

UNIT NUMBER	LOCATION	HEATING TYPE	AIRFLOW (CFM)	ESP (IN WG)	MOTOR HP	POWER SUPPLY VOLTS/PHASE	OUTPUT CAPACITY (BTUH OR (KW))	MINIMUM WHEEL DIA (IN)	APPROX WEIGHT (LBS)	REMARKS
MAU-101	OUTSIDE RM 119	DF	4400	1.00	5	480/3	283000	15	1400	1D, 2, 3B

HEATING TYPE NOTES:
DF - DIRECT FIRED
IF - INDIRECT FIRED
E - ELECTRIC

CAPACITY NOTE:
CAPACITIES LISTED IN PARENTHESES ARE IN UNITS OF "KW". CAPACITIES LISTED WITHOUT PARENTHESES ARE IN UNITS OF "BTUH"

REMARKS: 1 - VIBRATION ISOLATOR A) RUBBER PAD B) RUBBER MOUNT C) RUBBER HANGER D) SPRING MOUNT E) SPRING HANGER F) RESTRAINED SPRING MOUNT
2 - FILTER VELOCITY SHALL NOT EXCEED 350 FEET PER MINUTE
3 - FILTERS A) 1 INCH PLEATED B) 2 INCH PLEATED

HEATER SCHEDULE

UNIT NUMBER	LOCATION	UNIT ORIENTATION	AIRFLOW (CFM)	AIR PD (IN WG)	OUTPUT CAPACITY		WATER FLOW (GPM)	WATER PD (FT)	MOTOR HP	POWER SUPPLY VOLTS/PHASE	APPROX WEIGHT (LBS)	REMARKS
					(BTUH)	(KW)						
GDH-101	RM 102	H	2700	0.25	78,000	-	-	-	-	120/1	102	
GUH-101	RM 101	H	650	-	40000	-	-	-	1/35	120/1	100	
GUH-102	RM 115	H	1250	-	80000	-	-	-	1/30	120/1	125	
GUH-103	RM 115	H	1250	-	80000	-	-	-	1/30	120/1	125	
GUH-104	RM 115	H	1250	-	80000	-	-	-	1/30	120/1	125	
GUH-105	RM 115	H	1250	-	80000	-	-	-	1/30	120/1	125	
GUH-106	RM 116	H	650	-	40000	-	-	-	1/35	120/1	100	
GUH-107	RM 118	H	380	-	20000	-	-	-	1/50	120/1	100	
GUH-108	RM 119	H	650	-	40000	-	-	-	1/35	120/1	100	
GUH-109	RM 120	H	380	-	20000	-	-	-	1/50	120/1	100	
GUH-110	RM 122	H	380	-	20000	-	-	-	1/50	120/1	100	
GUH-111	RM 121	H	380	-	20000	-	-	-	1/50	120/1	100	
GUH-112	RM 116	H	650	-	40000	-	-	-	1/35	120/1	100	
EUH-101	RM 124	H	310	-	-	2.6	-	-	1/50	208/1	40	
EUH-102	RM 123	H	310	-	-	4	-	-	1/50	208/3	40	1
EUH-103	RM 125	H	310	-	-	4	-	-	1/50	208/3	40	1
WH-101	RM 112	S	65	-	-	0.75	-	-	-	120/1	-	
WH-102	RM 113	S	65	-	-	0.75	-	-	-	120/1	-	
WH-103	RM 117	S	65	-	-	0.75	-	-	-	120/1	-	

UNIT ORIENTATION NOTES:
H - HORIZONTAL DISCHARGE
V - VERTICAL DISCHARGE
S - SURFACE MOUNT

REMARKS: 1 - CORROSION RESISTANT

NOTES:
ENTERING AIR TEMPERATURE - 60 F

ZONE AND BYPASS DAMPER SCHEDULE

UNIT NUMBER	LOCATION	AIRFLOW (CFM)		DIAMETER (INCHES)	TYPE	REMARKS
		MINIMUM	MAXIMUM			
ZD-101	RM 103	200	750	10	CHGR	PROVIDE WITH UNIT CONTROL MODULE
ZD-102	RM 105	80	310	6	CHGR	PROVIDE WITH UNIT CONTROL MODULE
ZD-103	RM 106	150	540	8	CHGR	PROVIDE WITH UNIT CONTROL MODULE
ZD-104	RM 112	100	100	6	CHGR	PROVIDE WITH UNIT CONTROL MODULE
ZD-105	RM 111	200	800	12	CHGR	PROVIDE WITH UNIT CONTROL MODULE
ZD-106	RM 114	120	470	8	CHGR	PROVIDE WITH UNIT CONTROL MODULE
BD-101	RM 104	200	750	12	BYPS	PROVIDE WITH UNIT CONTROL MODULE

TYPE NOTE:
CHGR - CHANGEOVER
BYPS - BYPASS

NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE
					CONFORMED TO CONSTRUCTION RECORDS
2					ADDENDUM
1					

CYBNET ID: 97515-300-H-T0000SESP XREF1 ID:
SAVED: 1/14/2004 10/15/2004 4:54:38 PM XREF2 ID:
DWG VER #: 7.0 XREF3 ID:
PLOTTED: 1/14/2004 10/15/2004 4:48:48 PM XREF4 ID:
USER: 1/14/2004 SN#: ACAD-20001 XREF5 ID:

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BLACK & VEATCH Corporation
St. Louis, Missouri

CITY OF O'FALLON, MISSOURI
WATER TREATMENT PLANT

MECHANICAL - HVAC SCHEDULES

DESIGNED:	TRD
DETAILED:	JMC, LDW
CHECKED:	DWN
APPROVED:	DWN
DATE:	10/08/01

PROJECT NO.
97515

L4

SHEET 54 OF 96

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D97515