

Corporation venue, Suite 500 Certificate No. 8 | **%** | S /eatch ( Orange Ave (2801 ACI 00 8

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절불

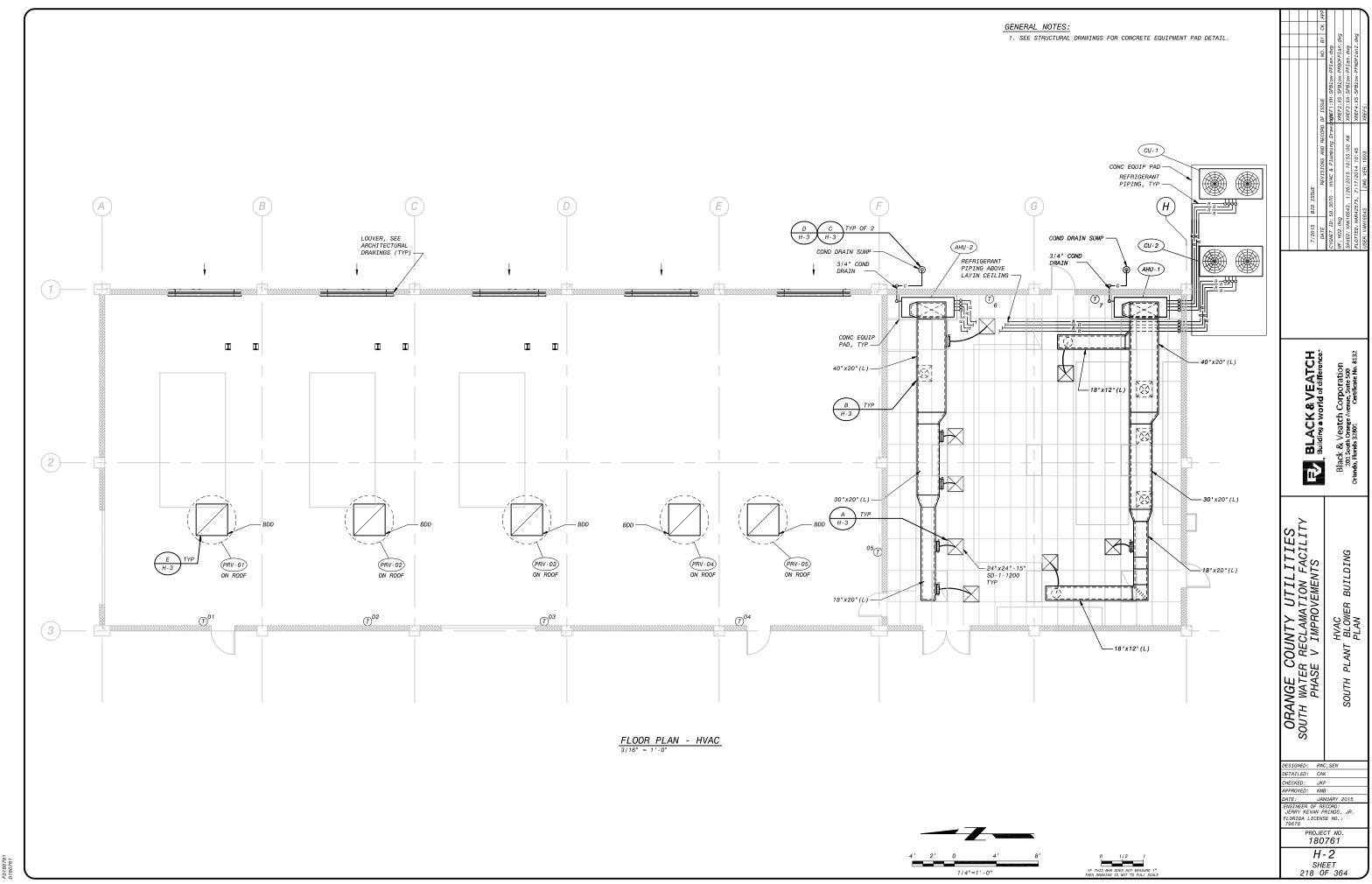
GENERAL  $\supset$ COUNTY (
RECLAMA) E C( TER IASE ORAI SOUTH

ESIGNED: RWC.SEW TAILED: CAK IECKED: JKP PROVED: KMB

JANUARY 2015 NGINEER OF RECORD: HERRY KEVAN PRINDS, JR. ORIDA LICENSE NO.

180761

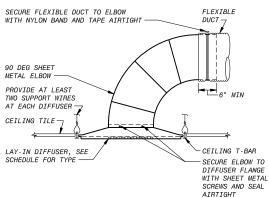
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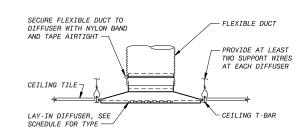
											AIR HA	NDLING	UNIT SCHEDULE										
									INDOOR		POWER	COOLING				HEATING			FILTER DATA			900000000	
		A TOFLOW	ESP		FAN		SUPPLY	E	AT	CAPACIT	Y (BTUH)	EAT		CAPACITY		THICKNESS	UTBBATTON	APPROX					
UNIT NUMBER LOCATI	LOCATION	LOCATION AIRFLOW (CFM)	(IN WC)	ORIENTATION	MOTOR HP		VOLTS/ PHASE	(FDB)	(FWB)	SENSIBLE	TOTAL	(FDB)	TYPE	(BTUH OR (KW))	TYPE	(IN)	VIBRATION ISOLATION	WEIGHT (LBS)	REMARKS				
AHU-1	S. BLOWER BLDG ELECTRICAL RM	7200	0.5	UPFLOW	5	BELT	480/3	75	59	172000	174000				PLEATED	2		750	1				
AHU-2	S. BLOWER BLDG	7200	0.5	UPFLOW	5	BELT	480/3	75	59	172000	174000	***	1999		PLEATED	2		750	1				

CAPACITIES LISTED IN PARENTHESES ARE IN UNITS OF "KW", CAPACITIES LISTED WITHOUT PARENTHESES ARE IN UNITS OF "BTUH",

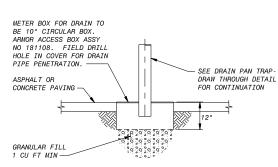
- MANUFACTURER USED AS THE BASIS OF DESIGN IS TRANE

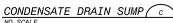


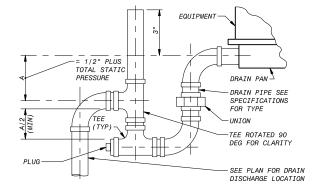
CEILING DIFFUSER -HORIZONTAL DUCT CONNECTION



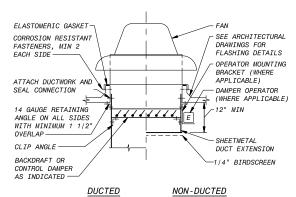
CEILING DIFFUSER -VERTICAL DUCT CONNECTION B NO SCALE







DRAIN PAN TRAP - DRAW THROUGH D



ROOF MOUNTED FAN E NO SCALE

				CONDI	<b>ENSING</b> (	JNIT/HEAT H	PUMP SCH	EDULE				
UNIT NUMBER			COOL	ING		100000000000000000000000000000000000000						
		CAPACITY	MINIMUM CAPACITY	SUCTION TEMPERATURE (F)		HEATING CAPACITY [HEAT PUMP]	POWER SUPPLY VOLTS/	MINIMUM CIRCUIT	ARI MINIMUM	MATCHED WITH INDOOR	APPROX WEIGHT	
	LOCATION	(BTUH)	STEPS	MINIMUM	MAXIMUM	(BTUH)	PHASE	<b>AMPACITY</b>	EFFICIENCY	UNIT	(LBS)	REMARKS
CU-1	S. BLOWER BLDG ELECTRICAL RM	174000	2			***	480/3	32.5	11 EER	AHU-1	800	1,2
CU-2	S. BLOWER BLDG ELECTRICAL RM	174000	2		1222	1440	480/3	32.5	11 EER	AHU-2	800	1,2

OUTDOOR COIL ENTERING AIR TEMPERATURE: COOLING - 95° F DESIGN/ 50° F MIN, HEATING - 43° F (HEAT PUMP)

MANUFACTURER USED AS THE BASIS OF DESIGN IS TRANE

COIL AND UNIT SURFACES SUBJECT TO CORROSION FROM A HYDROGEN SULFIDE ENVIRONMENT SHALL BE GIVEN A SPECIAL COATING

				FAN SCHEDULE														
					POWER				FILTER DATA									
LOCATION	FAN TYPE	AIRFLOW (CFM)	ESP (IN WC)	MOTOR HP	SUPPLY VOLTS/ PHASE	MINIMUM WHEEL DIA (IN)	WHEEL TYPE	DRIVE	TYPE	THICKNESS (IN)	VIBRATION ISOLATION	WEIGHT (LBS)	REMARKS					
BLOWER BLDG	PRV	21,000	0.5	7.5	480/3	48	С	BELT				1200	1					
BLOWER BLDG	PRV	21,000	0.5	7.5	480/3	48	С	BELT				1200	1					
BLOWER BLDG	PRV	21,000	0.5	7.5	480/3	48	С	BELT				1200	1					
BLOWER BLDG	PRV	21,000	0.5	7.5	480/3	48	С	BELT				1200	1					
BLOWER BLDG	PRV	21,000	0.5	7.5	480/3	48	С	BELT			8.9.8	1200	1					
	BLOWER BLDG BLOWER BLDG BLOWER BLDG BLOWER BLDG	LOCATION         TYPE           BLOWER BLDG         PRV           BLOWER BLDG         PRV	LOCATION         TYPE         (CFM)           BLOWER BLDG         PRV         21,000           BLOWER BLDG         PRV         21,000	LOCATION         TYPE         (CFM)         (IN WC)           BLOWER BLOG         PRV         21,000         0.5           BLOWER BLOG         PRV         21,000         0.5	LOCATION         TYPE         (CFM)         (IN WC)         HP           BLOWER BLDG         PRV         21,000         0.5         7.5           BLOWER BLDG         PRV         21,000         0.5         7.5	LOCATION         FAN TYPE         AIRFLOW (CFM)         ESP (IN WC)         MOTOR HP PHASE           BLOWER BLDG         PRV         21,000         0.5         7.5         480/3           BLOWER BLDG         PRV         21,000         0.5         7.5         480/3	LOCATION         FAN TYPE         AIRFLOW (CFM)         ESP (IN WC)         MOTOR HP VOLTS/ VOLTS/ WHEEL DIA (IN)           BLOWER BLDG         PRV         21,000         0.5         7.5         480/3         48           BLOWER BLDG         PRV         21,000         0.5         7.5         480/3         48	FAN   AIRFLOW   ESP   MOTOR   VOLTS!   WHEEL   WHEEL	LOCATION	LOCATION	FAN   AIRFLOW   ESP   MOTOR   YOUTS]   WHEEL   WHEEL	LOCATION   FAN   AIRFLOW   CFM   (IN WC)   WHO   HP   PHASE   DRIVE   WHEEL   WHEEL   TYPE   THICKNESS   VIBRATION	LOCATION   FAN   AIRFLOW   CFM   (IN WC)   WHOTOR   HP   PHPSE   DIA (IN)   WHEEL   WHEEL					

FAN TYPE NOTES: PRV - POWER ROOF VENTILATOR

- CENTRIFUGAL

-PROVIDE ACCESSORY TIE-DOWNS

AIR DEVICE SCHEDULE													
SYMBOL	MODEL	FRAME/BORDER	MODULE SIZE	MATERIAL	FINISH	DAMPER TYPE	ACCESSORIES	REMARK					
SD-1	TMS-AA	LAY-IN	24" x24"	ALUMINUM	BAKED WHITE ENAMEL	222		1,2					

SEE DRAWINGS FOR DEVICE LENGTH, WIDTH, AND SUPPLY PATTERN.

EQUIPMENT SCHEDULE MODEL NUMBERS BASED ON TITUS.

ALL DIFFUSER CORE STYLES ARE 4-WAY UNLESS OTHERWISE INDICATED ON THE PLANS.

HVAC SEQUENCE OF OPERATION

## 1. AIR CONDITIONING SYSTEMS.

1.1. SINGLE ZONE CONSTANT VOLUME SYSTEMS. SINGLE ZONE CONSTANT VOLUME SYSTEMS SHALL BE CONTROLLED BY THEIR RESPECTIVE THERMOSTAT. SYSTEM OPERATION SHALL BE CONTROLLED BY AN "OFF-AUTO-COOL" (PROGRAMMABLE) SYSTEM SWITCH AND AN "AUTO-ON" FAN SWITCH LOCATED ON THE THERMOSTAT SUB-BASE. WHEN THE FAN SWITCH IS PLACED IN THE "AUTO" POSITION, THE RESPECTIVE EQUIPMENT FAN SHALL BE ENERGIZED UPON A CALL FOR COOLING AS REQUIRED TO MAINTAIN THE DESIRED ROOM TEMPERATURE. WHEN THE FAN SWITCH IS PLACED IN THE "ON" POSITION, THE FAN SHALL BE ENERGIZED.

## 2. THERMOSTAT SETPOINTS

2.1 THERMOSTAT SETPOINTS SHALL BE AS INDICATED BELOW, UNLESS THE SETPOINT HAS BE DESCRIBED PREVIOUSLY IN THIS SEQUENCE OF OPERATIONS.

AIR CONDITIONED AREAS

103 F - 75 F

		NO. BY CK	RDER. dwg	XREF2:HVAC_Schedules.xlsx				
		OF ISSUE	Ing8EF1:B0I	XREF2:HV	XREF3:	XREF4:	XREF5:	
	BID ISSUE	REVISIONS AND RECORD OF ISSUE	CYGNET ID: 50.3070 - HVAC & Plumbing DrawingBEF1:BORDER.owg		SAVED: VAN16643, 1/26/2015 10:56:50 AM	PLOTTED: KAR11443, 5/20/2014 4:26:	DWG VER: 1004	
	7/2015 BID	DATE	ET ID: 50.3	WF: H03.dwg	D: VAN16643	TED: KAR114	USER: VAN16643	
	1/2	7	CYGA	WF: /	SAVE	PLOT	USEF	

BLACK & VEATCH Building a world of difference: Black & Veatch Corporation 201 South Orange Avenue, Suite 500 ndo, Horida 32801 Certificate No. 8 B

OPERATION 0F

ORANGE COUNTY UTILITIES SOUTH WATER RECLAMATION FACILITY PHASE V IMPROVEMENTS

DETAILS SCHEDULES,

DESIGNED: RWC, SEW TAILED: CAK

HECKED: JKP PPROVED: KMB JANUARY 2015 ENGINEER OF RECORD: JERRY KEVAN PRINDS, JR.

LORIDA LICENSE NO.:

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