	(THIS IS A MASTER LIST. NOT ALL ABBI	REVIATIONS MAY	APPEAR ON DRAWINGS.)
AABC ACD AFF AP AUTO	AMERICAN AIR BALANCE COUNCIL AUTOMATIC CONTROL DAMPER ABOVE FINISH FLOOR ACCESS PANEL AUTOMATIC	IN (") IBC IMC IPC IH	INCH INTERNATIONAL BUILDING CODE INTERNATIONAL MECHANICAL BUILDING CODE INTERNATIONAL PLUMBING BUILDING CODE INTAKE HOOD
AHU (AH) AD APD AF AFMS ACU (AC)	AIR HANDLING UNIT ACCESS DOOR AIR PRESSURE DROP AIR FOIL AIR FLOW MEASURING STATION AIR CONDITIONING UNIT	KW LAT LBS LWT	KILOWATT LEAVING AIR TEMPERATURE POUNDS LEAVING WATER TEMPERATURE
AFUE ASME B BHP BTU	ANNUAL FUEL UTILIZATION EFFICIENCY AMERICAN SOCIETY OF MECHANICAL ENGINEERS BOILER BRAKE HORSE POWER BRITISH THERMAL UNIT	MBH MAX MC MCA MOCP MCC	1000 BRITISH THERMAL UNITS PER HOUR MAXIMUM MECHANICAL CONTRACTOR MINIMUM CIRCUIT AMPS MAXIMUM OVER CURRENT PROTECTION MOTOR CONTROL CENTER
BOS BOD BMS BI	BOTTOM OF STEEL BOTTOM OF DUCT BUILDING MANAGEMENT SYSTEM BACKWARD INCLINE	MIN MA MERV NA	MINIMUM MIXED AIR MINIMUM EFFICIENCY REPORTING VALUE NOT APPLICABLE
CCCFMCFHCUCTCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	DEGREES CELSIUS CUBIC FEET PER MINUTE CUBIC FEET PER HOUR CHILLER CONDENSING UNIT COOLING TOWER CONSTANT VOLUME CARBON MONOXIDE	NC NO NEBB NEC NFPA NIC NTS NPT	NORMALLY CLOSED NORMALLY OPEN NATIONAL ENVIRONMENTAL BALANCING BUREAU NATIONAL ELECTRIC CODE NATIONAL FIRE PROTECTION ASSOCIATION NOT IN CONTRACT NOT TO SCALE NATIONAL PIPE TAPER
CO2 CWP CHWP CF CC	CARBON DIOXIDE CONDENSER WATER PUMP CHILLED WATER PUMP CHEMICAL POT FEEDER COOLING COIL	OED OFCI PH PA	OPEN END DUCT OWNER FURNISHED CONTRACTOR INSTALLED PHASE PRESSURE AVAILABLE
CD COND COP D DIFF	CEILING DIFFUSER CONDENSER COEFFICIENT OF PERFORMANCE DEMOLISH DIFFUSER	PRV PSI PSIA PSIG PCF	PRESSURE AVAILABLE PRESSURE REDUCING VALVE POUND PER SQUARE INCH POUND PER SQUARE INCH ABSOLUTE POUND PER SQUARE INCH GAUGE POUND PER CUBIC FOOT
DB dB DDC DDCFP DC	DRY BULB TEMPERATURE DECIBEL DIRECT DIGITAL CONTROL DIRECT DIGITAL CONTROL FIELD PANEL DIRECT CURRENT	PD POS P PCU PPM	PRESSURE DROP PROVIDE BY OTHER SECTION PUMP POLLUTION CONTROL UNIT PARTS PER MILLION
DIA (Ø) DN DX DS DOP	DIAMETER DOWN DIRECT EXPANSION DUCT SUMP DISPERSED OIL PARTICULATE	RPM RH RTU REFR RFI	REVOLUTIONS PER MINUTE RELATIVE HUMIDITY ROOF TOP UNIT REFRIGERANT RADIO FREQUENCY INTERFERENCE
EMCS E EAT EFF EWT EXH	ENERGY MANAGEMENT CONTROL SYSTEM EXISTING ENTERING AIR TEMPERATURE EFFICIENCY ENTERING WATER TEMPERATURE EXHAUST	SD SP SS SQ FT (中) SEF SF	SMOKE DAMPER STATIC PRESSURE STAINLESS STEEL SQUARE FEET SMOKE EXHAUST FAN SUPPLY FAN
EC EF ESP ET ETR EER	EVAPORATIVE COOLER EXHAUST FAN EXTERNAL STATIC PRESSURE EXPANSION TANK EXISTING TO REMAIN ENERGY EFFICIENCY RATIO	SH SOV TF TEMP (T) TAB	STATIC HEAD SHUT-OFF VALVE TRANSFER FAN TEMPERATURE TESTING AND BALANCING
EMI FCU (FC) F FB FPM	ELECTROMAGNETIC INTERFERENCE FAN COIL UNIT DEGREES FAHRENHEIT FAN POWERED BOX UNIT FEET PER MINUTE	TSP TYP TD TDH TU TCP	TOTAL STATIC PRESSURE TYPICAL TEMPERATURE DIFFERENCE TOTAL DEVELOPED HEAD TERMINAL UNIT TEMPERATURE CONTROL PANEL
FPS FT FM FLA FBC FPC FMC	FEET PER SECOND FEET FLOW METER FULL LOAD AMPS FLORIDA BUILDING CODE FLORIDA PLUMBING CODE FLORIDA MECHANICAL CODE	TEL UMC UPC UH UNO UV	TOTAL EQUIVALENT LENGTH UNIFORM MECHANICAL CODE UNIFORM PLUMBING CODE UNIT HEATER UNLESS NOTED OTHERWISE ULTRA VIOLET
FEC GA GAL GC GPM	FLORIDA ENERGY CODE GAUGE GALLONS GENERAL CONTRACTOR GALLONS PER MINUTE	VAV VD VFD V VEL	VARIABLE AIR VOLUME VOLUME DAMPER (MANUAL) VARIABLE FREQUENCY DRIVE VOLT VELOCITY
GPH GR GBS GEF HD	GALLONS PER HOUR GRILLE GALVANIZED BIRD SCREEN GENERAL EXHAUST FAN HEAD	W WB WG WMS WC	WATT WET BULB TEMPERATURE WATER GAUGE WIRE MESH SCREEN WATER COLUMN
HP HR HZ HOA HWP HX HC	HORSE POWER HOUR HERTZ HAND OFF AUTO HOT WATER PUMP HEAT EXCHANGER HEATING COIL	WP WPD WSHP (WHP) WT	WATER PRESSURE WATER PRESSURE DROP WATER SOURCE HEAT PUMP WEIGHT

MECHANICAL SYMBOL LEGEND (THIS IS A MASTER LEGEND, NOT ALL SYMBOLS MAY APPEAR ON DRAWING) ABBR SYMBOL DESCRIPTION

(THIS IS A MASTER LEGEND, NOT ALL SYMBOLS MAY APPEAR ON DRAWING)						
ABBR	SYMBOL	DESCRIPTION				
	<u></u>	SHEET NOTE				
	\triangle	REVISION NUMBER				
	ø ⊕	ROUND DUCTWORK (INCHES) OVAL DUCTWORK (INCHES)				
	/	RECTANGLE DUCTWORK (INCHES)				
SA	×	SUPPLY AIR				
RA		RETURN AIR				
EA		EXHAUST AIR				
OA		OUTSIDE AIR				
		SUPPLY AIR DUCT UP SUPPLY AIR DUCT DOWN				
		RETURN AIR DUCT UP				
		RETURN AIR DUCT DOWN				
		EXHAUST AIR DUCT UP				
		EXHAUST AIR DUCT DOWN				
		OUTSIDE AIR DUCT UP OUTSIDE AIR DUCT DOWN				
AD		ACCESS DOOR				
		SIDEWALL				
		AIR FLOW DIRECTION				
		LINED DUCTWORK				
		SINGLE LINE RIGID DUCT WITH 11/2" ACQUISTICAL LINER				
		SINGLE LINE RIGID DUCT WITH 1½" ACOUSTICAL LINER DOUBLE LINE RIGID DUCT				
	======	DOUBLE LINE RIGID DUCT WITH 1½" ACOUSTICAL LINER				
FD		FUSIBLE LINK FIRE DAMPER				
DD	—DD	DUCT MOUNTED SMOKE DETECTOR				
FSD	——FS	COMBINATION FIRE/SMOKE DAMPER				
MVD	— <u>M</u>	MOTORIZED DAMPER MANUAL VOLUME DAMPER				
W V D	 ⊚	MVD WITH REMOTE CEILING OPERATOR				
OBD	**	OPPOSED BLADE DAMPER				
BDD	— BDD	BACKDRAFT DAMPER				
CHS	CHS	CHILLED WATER SUPPLY CHILLED WATER RETURN				
HS	——HS——	HOT WATER SUPPLY				
HR	——HS——	HOT WATER RETURN				
D	D	DRAIN				
ICW		INDUSTRIAL COLD WATER				
CS CR	CS	CONDENSER WATER SUPPLY CONDENSER WATER RETURN				
LPS	——LPS——	LOW PRESSURE STEAM SUPPLY				
LPR	——LPR——	LOW PRESSURE STEAM RETURN				
HPS	——HPS——	HIGH PRESSURE STEAM SUPPLY				
HPR RL	——HPR———	HIGH PRESSURE STEAM RETURN REFRIGERANT LIQUID				
RS		REFRIGERANT SUCTION				
PD	——PD——	PUMPED DRAIN				
S	S	HYDRONIC LOOP SUPPLY				
R	R——R	HYDRONIC LOOP RETURN				
SOV	<u>——</u> ⊗————	CONTROL VALVE (2-WAY, 3-WAY) SHUT-OFF VALVE				
	——×——	THROTTLING VALVE				
	—— Ö ——	BALANCING VALVE				
		CHECK VALVE				
	₽	RELIEF VALVE STRAINER WITH BLOWDOWN VALVE				
	* <u>*</u>	FLEXIBLE PIPE CONNECTION				
	-	UNION				
AV	<u></u>	AIR VENT				
DO		DUCT OR PIPE TRANSITION				
PG TH	→ ₩⊘	PRESSURE GAUGE THERMOMETER				
TW		TEST WELL (PETE'S PLUG)				
• • •	FS	FLOW SWITCH				
_		PIPE DOWN				
		PIPE UP				
		PIPE TEE UP PIPE TEE DOWN				
		ANCHOR				
	=	GUIDE				
_		FLOW ARROW				
	0	THERMOSTAT				
	<u>S</u>	SPACE TEMPERATURE SENSOR W/ PLUG-IN PORT CARBON DIOXIDE SENSOR				
	•	POINT OF CONNECTION TO EXISTING				
	\otimes	POINT OF DISCONNECTION FROM EXISTING				

HURRICANE RESTRAINT REQUIREMENTS

ALL ROOF MOUNTED EQUIPMENT MUST ADHERE TO CURRENT HURRICANE ZONE CODE REQUIREMENTS, SPECIFICALLY 2007 FLORIDA BUILDING CODE SECTION 1522.

ISSUE					
		SET			
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		2011			
		3-2			
		-80-80			
		80	SHEET NUMBER	SHEET DESCRIPTION	
		•	M0.0	SHEET INDEX, LEGEND, ABBREVIATIONS, & GENERAL NOTES	
		•	MO.1	MECHANICAL SPECIFICATIONS	
		•	M0.2	MECHANICAL SPECIFICATIONS	
			MO.3	MECHANICAL SCHEDULES	

MECHANICAL DEMOLITION FLOOR PLAN — LEVEL ONE MECHANICAL DEMOLITION FLOOR PLAN — LEVEL TWO

MECHANICAL FLOOR PLAN — LEVEL ONE MECHANICAL FLOOR PLAN — LEVEL TWO

MECHANICAL DETAILS

SHEET INDEX

MECHANICAL GENERAL NOTES

|MECHANICAL TEMPERATURE CONTROL ZONE PLAN - LEVEL ONE

MECHANICAL TEMPERATURE CONTROL ZONE PLAN - LEVEL TWO

- 1. EXISTING DUCTWORK AND EQUIPMENT TO REMAIN IS SHOWN LIGHT. NEW DUCTWORK, PIPING AND EQUIPMENT IS SHOWN HEAVY. EXISTING DUCTWORK AND EQUIPMENT TO BE REMOVED IS SHOWN CROSSHATCHED.
- 2. ARCHITECTURAL DRAWINGS SHALL BE REVIEWED FOR PROJECT SCOPE AND AREA OF WORK. WORK SHALL INCLUDE DEMOLITION AND REMOVAL OF EXISTING MECHANICAL SYSTEMS AS REQUIRED. MECHANICAL SYSTEMS IN EXISTING WALLS SHALL BE REMOVED AND CAPPED AS REQUIRED. RECONNECT EXISTING DUCTWORK NOT IN DEMOLITION AREA AS REQUIRED TO MAINTAIN A COMPLETE AND OPERABLE SYSTEM.
- 3. THE OWNER OR TENANT RESERVES FIRST CHOICE TO KEEP EXISTING EQUIPMENT AND MATERIALS PER OWNER/TENANT LEASE AGREEMENT. COORDINATE WITH OWNER/TENANT AND DELIVER DESIGNATED EQUIPMENT AND MATERIALS REMOVED UNDER THIS CONTRACT TO DESIGNATED STORAGE AREA.
- 4. UNLESS NOTED OTHERWISE, FLEXIBLE DUCTS TO TERMINAL UNITS, DIFFUSERS AND GRILLES SHALL BE SAME SIZE AS NECK.
- 5. LENGTH OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO 5'-0" MAXIMUM HORIZONTAL RUN WITH ONLY ONE 90° BEND. SECURE FLEXIBLE DUCTWORK WITH SCREWS AND DRAWBANDS.
- 6. DUCT SIZES INDICATED ARE NET INSIDE CLEAR DIMENSIONS.
- 7. PROVIDE GEAR OPERATED CEILING OPERATORS FOR INACCESSIBLE MANUAL VOLUME DAMPERS. OPERATOR SHALL BE EQUAL TO YOUNG REGULATOR WITH CEILING ESCUTCHEON AND COVER PLATE. COORDINATE EXACT LOCATION OF COVER PLATE WITH ARCHITECT.
- 8. ITEM DESIGNATIONS INDICATED ARE FOR PURPOSES OF THESE DOCUMENTS ONLY. CONTRACTOR SHALL VERIFY WITH OWNER ACTUAL "TAGGING" INFORMATION TO BE PROVIDED FOR EACH ITEM OF MECHANICAL EQUIPMENT PRIOR TO NAMEPLATE ORDER RELEASE.
- 9. THE MECHANICAL DETAILS SHALL BE CONSIDERED AS A PART OF THE CONTRACT DOCUMENTS. THESE DETAILS SHALL BE INCORPORATED INTO THE ASSOCIATED WORK AND PROVIDE GENERAL GUIDANCE AS TO THE INSTALLATION INTENT WHETHER REFERENCED TO OR NOT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE INSTALLATION AND ENSURE THAT ALL INSTALLATIONS ARE IN ACCORDANCE WITH THE EQUIPMENT'S LISTING AND THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
- 10. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ACTUAL LOCATION OF GRILLES, DIFFUSERS AND ACCESS PANELS IN CEILING. COORDINATE DIFFUSER BORDER TYPES WITH CEILING TYPE SCHEDULED IN ARCHITECTURAL REFLECTED CEILING PLANS.
- 11. TURNING VANE RUNNERS SHALL HAVE A VANE IN EVERY SLOT IN STRICT CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS AND SMACNA DUCT CONSTRUCTION STANDARDS.
- 12. FIELD VERIFY FIT OF DUCTWORK AND PIPING PRIOR TO FABRICATION.
- 13. REFER TO EQUIPMENT DRAWINGS, SPECIFICATIONS AND SHOP DRAWINGS FOR CONNECTION REQUIREMENTS TO EQUIPMENT.
- 14. MANUAL VOLUME DAMPERS AND VALVES ON INSULATED DUCTWORK AND PIPING SHALL HAVE EXTENDED STEMS TO ALLOW FOR THE INSULATION THICKNESS. PROVIDE MINIMUM 12" LONG RED RIBBON LOCATOR ON VOLUME DAMPER AND VALVE HANDLES.
- 15. EQUIPMENT START-UP SHALL BE BY MANUFACTURER'S AUTHORIZED REPRESENTATIVE.
- 16. SEISMIC RESTRAINTS SHALL BE PROVIDED PER THE 2007 FLORIDA BUILDING CODE, AND THE SMACNA SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE PROPOSED RESTRAINTS, STRUCTURAL ATTACHMENT METHODS, AND RESTRAINT LOCATIONS TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE SUBMITTED DOCUMENTS SHALL BE PREPARED AND STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE IN THE STATE OF FLORIDA.
- 17. INSTALL SENSORS AND THERMOSTATS AT MOUNTING HEIGHT 48" ABOVE FINISHED FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS. COORDINATE EXACT LOCATION IN FIELD WITH GENERAL CONTRACTOR AND ARCHITECT.



NO. DESCRIPTION

A CONSTRUCTION DOCUMENT REVIEW 06-10-2011 SB SFA

B PERMIT SET 06-08-2011 SB SFA

DESCRIPTION DOCUMENT REVIEW 06-10-2011 SB SFA

DESCRIPTION SET 06-08-2011 SB SFA

DESCRIPTIO

CARPENTER SELLERS DEL GATTO ACMINECTS DIRECT LAS VEGAS, NV 89146

SENEKAL NOTES

A COMMERCIAL TENANT IMPROVEMENT FOR

SITY OF PHOENIX - WEST PALM BEACH, FL

7111 FAIRWAY DRIVE
PALM BEACH GARDENS, FL 33418

(REMODEL)

V. DESCRIPTION

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 08-08-2011

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 DO NOT SCALE DRAWINGS

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