

### MECHANICAL SYMBOL LEGEND

SINGLE LINE SYMBOL	DESCRIPTION	DOUBLE LINE SYMBOL	SINGLE LINE SYMBOL	DESCRIPTION	DOUBLE LINE SYMBOL
	2x2 SUPPLY AIR DIFFUSER 45° WITH FLEX CONN.			45° ELBOW	
	2x2 SUPPLY AIR DIFFUSER 90° WITH FLEX CONN.			90° CONICAL TEE OR SPIN IN TAP	
	2x2 SUPPLY AIR DIFFUSER WITH OUT FLEX CONN.			SPLIT BRANCH TAKE-OFF WITH SQUARE ELBOW & SPLITTER DAMPER	
	ROUND NECK CLG. DIFFUSER 4-WAY DIRECTIONAL THROW			SPLIT BRANCH TAKE-OFF WITH RADIUS HEEL & SPLITTER DAMPER	
	1x1 SUPPLY AIR DIFFUSER 45°			SPLIT BRANCH TAKE-OFF WITH AIR EXTRACTOR	
	1x1 SUPPLY AIR DIFFUSER 90°			LINED DUCTWORK	
	ROUND SUPPLY AIR DIFFUSER			TURNING VANE RECTANGULAR DUCT	
	EXISTING 1x1 CEILING OR EXHAUST RETURN AIR GRILLE OR REGISTER			FLUE OR ROUND EXHAUST DUCT	
	1x1 CEILING RETURN AIR OR EXHAUST GRILLE OR REGISTER			DAMPER	
	EXISTING 2x2 CEILING OR EXHAUST RETURN AIR GRILLE OR REGISTER			FLOW ARROW	
	2x2 CEILING RETURN AIR OR EXHAUST GRILLE OR REGISTER			EXISTING TO NEW CONNECTION	
	EXISTING 2x4 CEILING OR EXHAUST RETURN AIR GRILLE OR REGISTER			FIRE DAMPER	
	2x4 CEILING RETURN AIR OR EXHAUST GRILLE OR REGISTER			SQUARE TO ROUND DUCT TRANSITION	
	EXISTING 1x2 CEILING OR EXHAUST RETURN AIR GRILLE OR REGISTER			90° ELBOW DOWN (RECTANGULAR DUCT)	
	1x2 CEILING RETURN AIR OR EXHAUST GRILLE OR REGISTER			90° ELBOW UP (RECTANGULAR DUCT)	
	DOOR GRILLE			90° ELBOW DOWN (ROUND)	
	SUPPLY DUCT RISER			90° ELBOW UP (ROUND)	
	RETURN, EXHAUST OR OUTSIDE AIR DUCT RISER			ROUND RADIUS ELBOW	
	OFFSET TO CHANGE ELEVATION (AT 30° WHEN POSSIBLE ARROW SLOPES DN.)				
	RECTANGULAR RADIUS ELBOW				
	45° CONICAL TEE				
	CONCENTRIC TRANSITION				
	SQUARE TO ROUND DUCT TRANSITION				
	90° ELBOW DOWN (RECTANGULAR DUCT)				
	90° ELBOW UP (RECTANGULAR DUCT)				
	90° ELBOW DOWN (ROUND)				
	90° ELBOW UP (ROUND)				
	OFFSET TO CHANGE ELEVATION (AT 30° WHEN POSSIBLE ARROW SLOPES DN.)				
	ROUND RADIUS ELBOW				

NOTES:  
ALL SYMBOLS ON THIS LIST ARE NOT NECESSARILY USED ON THIS JOB

### ROOFTOP UNIT SCHEDULE

MARK	RTU-1,2	RTU-3
TOTAL CFM	5250	3,000
OUTSIDE AIR CFM	850	375
EXTERNAL STATIC PRESSURE (IN W.C.) APPROX.	.75	1.0
HORSEPOWER	3	3
TOTAL CAPACITY (MBH) (APPROX. @ 80/67)	149.1	84.7
SENSIBLE (MBH) (APPROX. @ 80/67)	114.4	66.3
Nominal Capacity - Tons	15	7.5
AMBIENT TEMPERATURE °F	115	101
HEATING DATA (MBH)	INPUT	300
	OUTPUT	240
VOLTS	480	480
PHASE	3	3
COMPRESSOR RLA	-	-
OUTDOOR FAN MOTOR	-	-
MCA	37.2	26.9
MOCF (FUSE ONLY)	45	30
EER	11.1	11.5
MANUFACTURER & MODEL No.	JCI AD15N3BV4E	JCI J072H12D466
LOCATION	ROOF	ROOF
UNIT WEIGHT	2300	1,055

NOTES:  
1. FURNISH AND INSTALL SMOKE DUCT DETECTORS IN RETURN AIR DUCTS ON UNITS SUPPLYING 2,000 CFM OR MORE OF SUPPLY AIR.  
2. ROUTE CONDENSATE DRAIN TO MOP SINK/LAVATORY. REFERENCE M1.0 FOR ROUTING.  
3. LABEL RTU.  
4. PROVIDE 14" PRE-FABRICATED FACTORY INSULATED ROOF CURB.  
5. PROVIDE WITH SINGLE ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF.  
6. PROVIDE FILTER RACK WITH 2" PLEATED FILTER.  
7. PROVIDE MANUFACTURER START-UP.  
8. 120 VOLT WEATHERPROOF GFI RECEPTACLE TO BE FACTORY MOUNTED AND WIRED.  
9. PROVIDE WALL MOUNTED 7-DAY AUTO-CHANGE-OVER PROGRAMMABLE THERMOSTAT WITH 2HR OCCUPANT OVERRIDE, 10HR BACK-UP, DEADBAND, MINIMUM OVERLAP RESTRICTIONS.  
10. PROVIDE WITH HAIL GUARD.

### UNIT HEATER SCHEDULE

MARK	UH-1	
LOCATION	FIRE RISER	
CFM	350	
BTU	0.10	
HEATING DATA	INPUT	3.0 KW
	OUTPUT	
VOLTS	208	
PHASE	1	
MANUFACTURER	Q-MARK	
MODEL No.	MUH0361	
NOTES	1,2,3,4,5	

NOTES:  
1. PROVIDE WITH DISCONNECT SWITCH.  
2. PROVIDE UNIVERSAL WALL AND CEILING MOUNTING BRACKET.  
3. MOUNT UNIT AT 8' A.F.F.  
4. SINGLE POINT ELECTRICAL CONNECTION.  
5. PROVIDE LOW VOLTAGE CONTROL TRANSFORMER (24V) AND THERMOSTAT.

### RADIANT HEATER SCHEDULE

TAG	MANUFACTURER & MODEL #	AREA SERVED	ELECTRIC	HEATING (MBTU)	HP	CFM	FLA	NOTES
RH-1,2	SUNPAK S25-TSH	OUTDOOR WASHBAY RADIANT HEATER	24 VOLT	25	-	-	0.8	1,2,3,4

NOTES:  
1. COORDINATE ELECTRICAL REQUIREMENTS PRIOR TO INSTALL.  
2. PROVIDE ALL HEATERS WITH PUSH BUTTON OVERRIDE. ALL HEATERS ARE TO BE WIRED BACK TO SINGLE PUSH BUTTON. UNIT HEATERS SHALL BE ENERGIZED UPON ACTIVATION OF WALL SWITCH.  
3. CONTRACTOR IS TO PROVIDE FACTORY MOUNTING KIT AND ALL OTHER REQUIRED MOUNTING HARDWARE.  
4. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

### EXH. FAN SCH.

MARK	EF-1	EF-2	EF-3	EF-4	EF-5	EF-6	EF-7
TYPE	CEILING	CEILING	CEILING	CEILING	CEILING	ROOF	ROOF
CFM	75	75	75	75	200	500	12,000
EXTERNAL STATIC PRESSURE	0.13	0.13	0.13	0.13	.375	.5	.5
HORSEPOWER	27 W	27 W	27 W	27 W	27 W	27 W	5.0
VOLTS/PHASE	120/1	120/1	120/1	120/1	120/1	480/3	480/3
STARTER (SEE ELEC.)	NONE	NONE	NONE	NONE	NONE	NONE	NONE
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	COOK	COOK	COOK
MODEL No.	SP-L80	L-80	SP-L80	SP-L60	GC-422	300 ACEB	300 ACEB
LOCATION	RESTROOMS	RESTROOMS	RESTROOMS	RESTROOMS	I.T.	SHOP	SHOP
NOTES	1,3	1,3	1,3	1,3	1,4	1,2,5,6	1,2,5,6

NOTES:  
1. PROVIDE DISCONNECT SWITCH.  
2. PROVIDE WITH MANUFACTURER RECURB AND BIRD SCREEN.  
3. FAN TO BE INTERLOCKED WITH TIME CLOCK TO RUN CONTINUOUSLY DURING BUSINESS HOURS.  
4. FAN TO BE CONTROLLED BY THERMOSTAT SET POINT 80F OR AS DIRECTED BY OWNER.  
5. FAN CONTROLLED BY CARBON MONOXIDE SENSOR, COSTAR 24VC-4 OR SIMILAR. INTERLOCK WITH TYPE 'E' WALL LOUVER CONTROL DAMPERS. DAMPERS TO OPEN WHEN FAN IS ENERGIZED AND CLOSE WHEN FAN IS OFF.  
6. PROVIDE MANUFACTURER PUSH BUTTON OVERRIDE FOR EACH DAMPER FOR DAMPER POSITION. COORDINATE LOCATION OF OVERRIDE WITH OWNER.

### AIR DEVICE SCHEDULE

MARK	SERVICE	TYPE	SIZE		MFR.	MODEL	NOTES	ACCESS
			NECK	FACE				
A	SUPPLY	CEILING	SEE DETAIL	24x24	TITUS	TMS	1,4	
B	SUPPLY	CEILING	SEE DETAIL	12x12	TITUS	OMNI	1,4	
C	RETURN	CEILING	SEE PLAN	24x24 U.N.O.	TITUS	8R	1,4	
D	RETURN	CEILING	SEE PLAN	24x12 U.N.O.	TITUS	8R	1,4	
E	INTAKE	WALL	SEE PLAN	SEE PLAN	GREENHECK	EAC-801	5,6,7	
F	SUPPLY	PLENUM	SEE PLAN	SEE PLAN	RUSKIN	DLD 3510	1,5	

NOTES:  
1. COLOR BY ARCHITECT.  
2. CONTRACTOR TO PROVIDE MOUNTING FRAME. PLASTER FRAMES SHALL BE FACTORY PRIMED FOR FIELD PAINTING.  
3. ALL GRILLES/REGISTERS IN RESTROOMS TO BE ALUMINUM.  
4. PROVIDE FACTORY INSULATED R-6 FOIL BACKED INSULATION ON ALL SUPPLY DIFFUSERS.  
5. CONSULT WITH ARCHITECT FOR MOUNTING HEIGHT.  
6. PROVIDE WITH 120V OPTIONAL ACTUATOR. ACTUATOR TO INTERNALLY MOUNTED.  
7. PROVIDE WITH BIRD SCREEN.

### CEILING DIFFUSER RUNOUT SIZING

SQUARE NECK DIFF.	RUNOUT / NECK SIZE	CFM RANGE
6x6	6"Ø	0 - 100 CFM
9x9	8"Ø	101 - 225 CFM
12x12	10"Ø	226 - 325 CFM
15x15	12"Ø	326 - 500 CFM
18x18	14"Ø	501 - 700 CFM
22x22	18"Ø	701 - 1000 CFM

NOTE:  
TAPS/RUNOUTS REQUIRED WITH SIZE. SEE TABLE. CONTRACTOR TO VERIFY SIZE AND QUANTITY.

### DIFFUSER LEGEND

GRILLE MARK FOR GRILLE SIZE SEE DIFFUSER DETAIL		CUBIC FEET PER MINUTE
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### CIRC. FAN SCHED.

MARK	CF-1,2
FAN DIAMETER (IN)	12"
MOTOR SPEED	109
MOTOR HP	2.0
VOLTS/PHASE	480/3
FREQUENCY (HZ)	60
MAX AMPS	10
MANUFACTURER	BIG ASS FANS
MODEL No.	PFB-12
WEIGHT	209
NOTES	1,2

NOTES:  
1. INCLUDE MANUFACTURER'S WALL MOUNTED KEYPAD. REFERENCE M1.0 FOR MOUNTING LOCATION.  
2. FACTORY MOUNTED DISCONNECT SWITCH.  
3. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

Order Plans

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NO.	DATE	BY	DESCRIPTION
1	2020.03.03	CLS	ADDITIONAL NO. 1

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CALIBER COLLISION  
2500 GREENFIELD  
LAKELAND, FL  
PROJECT NO. 202002

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M2.0