



MECHANICAL ABBREVIATION LIST	
GENERAL NOTES	
1	THE MANUFACTURER LISTED SHALL BE CONSIDERED THE BASIS OF DESIGN. EQUIPMENT AND ACCESSORIES SHALL BE SUPPLIED IN ACCORDANCE WITH THE SCHEDULED VALUES. NOTES, DETAILS, AND SPECIFICATIONS. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADDITIONAL COST AND COORDINATION WHEN NON BASIS OF DESIGN EQUIPMENT IS PROVIDED.
2	ALL PERFORMANCE SHALL BE BASED ON EQUIPMENT OPERATING AT AN ELEVATION OF X.XXX FEET ABOVE SEA LEVEL.
3	SPECIFIED FAN ESP INCLUDES DUCT AND EQUIPMENT LOSSES EXTERNAL TO UNIT. SCHEDULED FAN TSP INCLUDES EXTERNAL LOSSES PLUS INTERNAL UNIT LOSSES DUE TO COILS, FILTERS AT DIRTY CONDITIONS, ETC.
OPTIONS	
AFM	AIR FLOW MEASUREMENT, FACTORY INSTALLED
AID	ADJUSTABLE INLET DAMPER
AS	AIRFLOW SWITCH
ASOW	AUTO-SWITCHOVER TO CITY WATER
BAC	BACNET CARD
BC	BYPASS CONTROLLER
BD	BYPASS DAMPERS
BS	BIRDSCREEN
BSK	BREAKER SEAL KIT
BSV	BALL AND SCHRAEDER VALVE AT EACH PORT
BYD	BYPASS AIR PLENUM AND DAMPER
COU	CONDENSATE PUMP - UNPOWERED CONVENIENCE OUTLET - UNPOWERED
CPE	CONDENSATE PUMP - EXTERNAL EQUAL TO BLUE DIAMOND ADVANCED MINI CONDENSATE PUMP WITH RESERVOIR AND SENSOR
CPI	CONDENSATE PUMP - INTEGRAL
CPSP	CONTROL PANEL WITH INTEGRAL VFD FOR PUMP SKID
DP	DRAIN PAN
DSE	DISCONNECT BY E/C
DSF	FUSED DISCONNECT - FACTORY MOUNTED
DSN	NON-FUSED DISCONNECT - FACTORY MOUNTED
DWC	DOUBLE WALL CONSTRUCTION
ECON	0-100% DRY BULB ECONOMIZER
FB	FUSE BLOCK FOR INTERNAL OVERCURRENT PROTECTION
FFI	FIBER FREE FOAM INSULATION
FS	FUEL SWITCH
GBD	GRAVITY BACKDRAFT DAMPER
GT	GREASE TRAP
HEPA	HEPA FILTER WITH MINIMUM 99.97% EFFECTIVENESS AT 0.3 MICRONS
HG	HAIL GUARD
HGB	HOT GAS BYPASS
HTI	HOT TEMPERATURE INTERLOCK
IC	INSULATED CABINET
IPB	INSULATED PLENUM BOX
ISO	ISOLATION DAMPER AND ACTUATOR
LA	LOW AMBIENT COOLING DOWN TO ?? DEG.F.
LFI	LOW FLOW INTERLOCK
LLD	LOW LEAK DAMPER WITH FAULT DETECTION
LLI	LOW LEVEL INTERLOCK
LP	LOUVERED PANELS
LS	LIGHT SHIELD PER DETAIL
MSD	MOTORIZED BACKDRAFT DAMPER
MDS	24V MAGNETIC DOOR ACTIVATION SWITCH
N1	PROVIDE 2 FANS FOR N+1 REDUNDANCY
OAH	OUTSIDE AIR HOOD
PC	PLUG CONNECTIONS FOR ELECTRIC HEATER
RMB	2" RECESSED MOUNTING BOX
SAF	SURE-AIRE FLOW STATION
SC	SPEED CONTROLLER
SG	STANDARD GRILLE
SMB	SURFACE MOUNTING BOX
SPP	SINGLE POINT POWER ENTRY KIT
SSDP	STAINLESS STEEL DRAIN PAN
TK	TWINNING KIT
UPB	UNINSULATED PLENUM BOX
VSC	VARIABLE SPEED COMPRESSOR
WS	WALL SLEEVE
WSH	WEATHERSHIED HOOD

ROOFTOP UNIT SCHEDULE																																					
SUPPLY FAN											COOLING COIL							HEATING COIL					FILTERS		ELECTRICAL			PHYSICAL PROPERTIES									
PLAN MARK	MANUFACTURER	MODEL	FAN TYPE	FAN QUANTITY	AIRFLOW (CFM)	ESP (IN)	TSP (IN)	MAX HP	BRK E HP	STARTER TYPE	TH (MBH)	SH (MBH)	DB (DEG.F)	WB (DEG.F)	DB (DEG.F)	WB (DEG.F)	MAX VELOCITY (FPM)	AMBIENT TEMP (DEG.F)	AIRFLOW (CFM)	MIN. OUTPUT (MBH)	EAT (DEG.F)	LAT (DEG.F)	MIN O/A AIRFLOW (CFM)	PRE MERV	DIRTY SP LOSS (IN)	VOLTAGE	PHASE	MCA	MCCP	MAX LENGTH (IN)	MAX WIDTH (IN)	MAX HEIGHT (IN)	WEIGHT (LBS)	MIN IEER (AHR)	OPTIONS	NOTES	
RTU 1	TRANE	WCD48H4	DD	1	1400	0.75	1.0	1	0.55	ECM	47	35	80.0	67.0	55.0	55.0	500	105	1400	14	60.0	70.0	140	8	0.4	460	3	23.0	25	8'	9"	6'	1200	16.5	BS,DSE,ECON,HG,COU	1-7	
<div>NOTES:</div> <div><div>1. FURNISH WITH CURB PER DETAIL 1/M4.11, MINIMUM HEIGHT OF 14".</div><div>2. UNIT SHALL BE DRAW THRU CONFIGURATION.</div><div>3. COOLING COIL BASED ON NET CAPACITIES.</div><div>4. CONTROLS SHALL BE FACTORY INSTALLED. REFER TO CONTROLS DRAWINGS.</div><div>5. FURNISH WITH VARIABLE SPEED DIRECT DRIVE FANS. IF VFD'S ARE PROVIDED, PROVIDE WITH SHAFT GROUNDING RINGS.</div><div>6. PROVIDE WITH SMOKE DETECTOR IN SUPPLY AND RETURN DUCT.</div><div>7. PROVIDE 6 KW ELECTRIC HEATER ALONG WITH HEAT PUMP HEATING. HEATING AMBIENT TEMPERATURE IS 0 DEGREES.</div></div>																																					

FAN SCHEDULE																				
PLAN MARK	AREA SERVED	SERVICE	MANUFACTURER	MODEL	MOUNTING	AIRFLOW (CFM)	ESP (IN)	DRIVE	BRAKE HP	MIN HP	FAN RPM	STARTER TYPE	VOLTAGE	PHASE	FLA	MCA	MCCP	OPTIONS		NOTES
EF 8	LL GEN EXHAUST	EXHAUST	GREENHECK	G-098	ROOF	465	0.8	DD	0.13	0.25	1553	ECM	120	1	3.8	4.8	15	BS,DSN,GBD		1,2
EF 9	FORENSICS RM	EXHAUST	GREENHECK	G-100	ROOF	1000	0.6	DD	0.21	0.25	1547	ECM	120	1	3.8	4.8	15	BS,DSN,GBD		1,3
NOTES:																				
1. FURNISH WITH INSULATED STANDARD CURB, MINIMUM HEIGHT OF 14".																				
2. RECONNECT FAN CONTROLS TO INTERLOCK FAN OPERATION WITH EXISTING AHU-1, SO THAT FAN IS ON WHEN AHU-1 IS ON.																				
3. RECONNECT FAN CONTROLS. FAN SHALL RUN CONTINUOUSLY.																				

LOUVER SCHEDULE												
PLAN MARK	AREA SERVED	SERVICE	MANUFACTURER	MODEL	WIDTH (IN)	HEIGHT (IN)	AIRFLOW (CFM)	MIN FREE AREA (SF)	MAX VELOCITY (FPM)	MAX APD (IN WC)	OPTIONS	NOTES
L 1	CRIME SCENE BAY	RELIEF	RUSKIN	ELF6375DX	30"	30"	2205	3.00	800	0.10	BS	1-2
NOTES: 1. COORDINATE LOUVER SIZE AND JAMB WITH ARCHITECT. CONTRACTOR TO VERIFY SIZE OF OPENINGS.												

UNIT HEATER - ELECTRIC SCHEDULE												
PLAN MARK	AREA SERVED	MANUFACTURER	MODEL	MOUNTING TYPE	AIRFLOW (CFM)	NOMINAL (KW)	ELECTRICAL				OPTIONS	NOTES
							VOLTAGE	PHASE	FLA	MCCP		
UH 2	MAIN L06	RAYWALL	S100	SUSPEND	400	3.0	277	1	11.9	15	DSN,TI	1,3
WH 1	VEST L04	RAYWALL	AFA	WALL	175	1.5	120	1	6.3	15	DSN,TI	1,2
NOTES:												
1. FURNISH NECESSARY MOUNTING BRACKET AND ACCESSORIES.												
2. MOUNT FLUSH TO SURFACE. 1'-0" AFF.												
3. MOUNT SUSPENDED FROM STRUCTURE AT 10'-0" AFF. ANGLE DIFFUSER BLADES AT 45 DEG TOWARD GROUND.												

RADIANT HEATER - ELECTRIC SCHEDULE												
PLAN MARK	MANUFACTURER	MODEL	MOUNTING LOCATION	LENGTH (IN)	WIDTH (IN)	NOMINAL (KW)	VOLTAGE	PHASE	FLA	MCCP	OPTIONS	NOTES
RH 1	RAYWALL	OCH2	WALL	55"	6"	4.0	277	1	14.4	20	DSN	1-2
RH 2	RAYWALL	OCH2	WALL	55"	6"	4.0	277	1	14.4	20	DSN	1-2
RH 3	RAYWALL	OCH2	WALL	55"	6"	4.0	277	1	14.4	20	DSN	1-2
RH 4	RAYWALL	OCH2	WALL	55"	6"	4.0	277	1	14.4	20	DSN	1-2
RH 5	RAYWALL	OCH2	WALL	55"	6"	4.0	277	1	14.4	20	DSN	1-2
RH 6	RAYWALL	OCH2	WALL	55"	6"	4.0	277	1	14.4	20	DSN	1-2
RH 7	RAYWALL	OCH2	WALL	55"	6"	4.0	277	1	14.4	20	DSN	1-2
RH 8	RAYWALL	OCH2	WALL	55"	6"	4.0	277	1	14.4	20	DSN	1-2
NOTES: 1. HEATER SHALL BE WALL MOUNTED AND ANGLED AT 45 DEG TOWARD THE CENTER OF THE SPACE. MOUNT BOTTOM OF HEATER AT 10'-0" AFF. 2. ALL HEATERS SHALL BE CONTROLLED BY HEAT-ONLY THERMOSTATS. SEE FLOOR PLANS FOR QUANTITY AND LOCATIONS.												

GRILLE, REGISTER AND DIFFUSER SCHEDULE											
PLAN MARK	MANUFACTURER	MODEL	FACE TYPE	MOUNTING LOCATION	COLOR	OBD	FACE SIZE (IN)	MAX PRESS DROP (IN WC)	MAX NC	OPTIONS	NOTES
R1	PRICE	80	EGG CRATE	LAY-IN CEILING	WHITE	NO	24"x12"	0.1	30		
R2	PRICE	80	EGG CRATE	LAY-IN CEILING	WHITE	NO	24"x24"	0.1	30		
S1	PRICE	SPD	PLAQUE	LAY-IN CEILING	WHITE	YES	24"x24"	0.1	30		1,2
S2	PRICE	SPD	PLAQUE	LAY-IN CEILING	WHITE	YES	12"x12"	0.1	30		1,2
S3	PRICE	520	DOUBLE DEFLECTION	WALL	BWHITE	YES	SEE DWG	0.1	30		1,3,4,5
NOTES: 1. NECK SIZE SHOWN ON DRAWINGS - BRANCH DUCT SIZE SHALL BE SAME AS NECK SIZE UNLESS OTHERWISE NOTED. 2. 4-WAY THROW PATTERN UNLESS OTHERWISE SHOWN ON DRAWINGS AND LEGEND. 3. DOUBLE DEFLECTION BARS SHALL BE ADJUSTABLE. ADJUST TO DEFLECT AIR DOWN AND EVENLY TO THE SIDE. 4. FRONT BLADES PARALLEL TO LONG DIMENSION. 5. ALUMINUM CONSTRUCTION.											

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ROOF VENT SCHEDULE													
PLAN MARK	SERVICE	MANUFACTURER	MODEL	AIRFLOW (CFM)	MAX THROAT VEL (FPM)	MAX APD (IN)	THROAT SIZE (IN)	PHYSICAL PROPERTIES			OPTIONS	NOTES	
								LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)			
RV 1	INTAKE	GREENHECK	FGI	2250	800	0.1	12x36	52"	32"	14"	BS	1,2	
NOTES: 1. FURNISH WITH INSULATED STANDARD CURB, MINIMUM HEIGHT OF 14". 2. ALUMINUM CONSTRUCTION AND FINISH.													