HVAC LEGEND SUPPLY/OUTSIDE AIR DUCT UP MOTOR-OPERATED SMOKE/FIRE DAMPER)×(SUPPLY/OUTSIDE AIR DUCT DOWN RETURN/EXHAUST DUCT UP MOTOR-OPERATED DAMPER RETURN/EXHAUST DUCT DOWN DUCT SMOKE DETECTOR RECTANGULAR DUCT ELBOW WITH TURNING VANES PIPE TURNING UP

STANDARD BRANCH, SUPPLY OR

RECTANGULAR TO ROUND DUCT TRANSITION

RETURN, NO SPLITTER

DUCT TRANSITION

MANUAL VOLUME DAMPER

FIRE DAMPER

BACKDRAFT DAMPER

ATC = AUTOMATIC TEMPERATURE CONTROL ATM = ATMOSPHERE AV = AIR VENT BHP = BRAKE HORSEPOWER BTU = BRIISH THERMAL UNIT BTU = BRIISH THERMAL UNIT BTU = BRIISH THERMAL UNIT BTU = BRI PER HOUR BTU = BTU PER HOUR CAP = CAPACITY CF = CUBIC FEET PER HOUR CFH = CUBIC FEET PER HOUR CFM = CUBIC FEET PER MINUTE CFM = CUBIC FEET PER MINUTE CONN = CONNECTION DB = DRY BULB DIA = DIAMETER DIA = DELTA-T (TEMPERATURE DIFFERENTIAL) AT = DELTA-T (TEMPERATURE DIFFERENTIAL) CAT = ENTERING AIR TEMPERATURE EF = EXHAUST FAN ENTERING WATER TEMPERATURE EF = EXHAUST FAN ENTERING WATER TEMPERATURE EWT = SENSIBLE	AIR PRESSURE DROP	AIVID		IIN	= INOT
ATC = AUTOMATIC TEMPERATURE CONTROL ATM = ATMOSPHERE ATM = ATMOSPHERE AV = AIR VENT BP = BRAKE HORSEPOWER BTU = BRITISH THERMAL UNIT BTU = BROWN	AUTOMATIC TEMPERATURE CONTROL ATMOSPHERE LD LD LOUVERED DOOR AIR VENT LF LINEAR FEET BRAKE HORSEPOWER BRITISH THERMAL UNIT LRA LOCKED ROTOR AMPS BTU PER HOUR CENTER TO CENTER MAX MAX MAX MAXIMUM CAPACITY CUBIC FEET MIN CUBIC FEET PER HOUR CUBIC FEET PER MINUTE MO MO MOTOR-OPERATED CUBIC FEET PER HOUR CUBIC FEET PER MINUTE NC CUBIC FEET PER MINUTE NC NIC NOT IN CONTRACT DRY BULB DIFFERENCE OR DELTA DIFFERENCE OR DELTA DIFFERENCE OR DELTA DIFFERENCE OR DELTA DELTA-T, (TEMPERATURE DIFFERENTIAL) DIECT EYPANSION (REFRIGERANT) COOLING EACH EACH EACH EXHAUST FAN EACH EXHAUST FAN EXTERNAL STATIC PRESSURE HULL LOAD AMPS SP SUPPLY AIT ON WIDE HABAUT ON WIDE HABAUT ON WIDE HABAUT ON WIDE HABAUT	AMP	= AMPERE	KW	= KILOWATT
ATC = AUTOMATIC TEMPERATURE CONTROL ATM = ATMOSPHERE ATM = ATMOSPHERE AV = AIR VENT BP = BRAKE HORSEPOWER BTU = BRITISH THERMAL UNIT BTU = BROWN	AUTOMATIC TEMPERATURE CONTROL ATMOSPHERE LD LD LOUVERED DOOR AIR VENT LF LINEAR FEET BRAKE HORSEPOWER BRITISH THERMAL UNIT LRA LOCKED ROTOR AMPS BTU PER HOUR CENTER TO CENTER MAX MAX MAX MAXIMUM CAPACITY CUBIC FEET MIN CUBIC FEET PER HOUR CUBIC FEET PER MINUTE MO MO MOTOR-OPERATED CUBIC FEET PER HOUR CUBIC FEET PER MINUTE NC CUBIC FEET PER MINUTE NC NIC NOT IN CONTRACT DRY BULB DIFFERENCE OR DELTA DIFFERENCE OR DELTA DIFFERENCE OR DELTA DIFFERENCE OR DELTA DELTA-T, (TEMPERATURE DIFFERENTIAL) DIECT EYPANSION (REFRIGERANT) COOLING EACH EACH EACH EXHAUST FAN EACH EXHAUST FAN EXTERNAL STATIC PRESSURE HULL LOAD AMPS SP SUPPLY AIT ON WIDE HABAUT ON WIDE HABAUT ON WIDE HABAUT ON WIDE HABAUT	APD	= AIR PRESSURE DROP	LAT	= LATENT OR LEAVING AIR TEMPERATURE
ATM = ATMOSPHERE AV = AIR VENT BHP = BRAKE HORSEPOWER BTU = BRTISH THERMAL UNIT BHP = BRAKE HORSEPOWER BTU = BRTISH THERMAL UNIT BTU = BRTISH THERMAL UNIT BTU = BTU PER HOUR CTO C = CENTER TO CENTER BTU = CAPACITY MBH = THOUSANDS BTUH CF = CUBIC FEET ER HOUR CFH = CUBIC FEET PER HOUR CFM = CUBIC FEET PER HOUR CFM = CUBIC FEET PER MINUTE	= ATMOSPHERE AIR VENTT BRAKE HORSEPOWER BRITISH THERMAL UNIT BRAKE HORSEPOWER BRITISH THERMAL UNIT LYG BRITISH THERMAL UNIT LYG LEAVING CENTER TO CENTER BRITISH THERMAL UNIT LYG CENTER TO CENTER LYG CENTER TO CENTER MAX CEMPLOY CUBIC FEET MIN CUBIC FEET PER HOUR CUBIC FEET PER HOUR CUBIC FEET PER HOUR CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CUBIC FEET PER MINUTE NC CONNECTION NIC CONNECTION NIC CONNECTION NIS DEGREE DEGREE OA DIAMETER DIAMETER DIAMETER DEGREE OA DIAMETER DEGREE OA DIAMETER DELTA-P (PRESSURE DIFFERENTIAL) R DELTA-T (TEMPERATURE DIFFERENTIAL) DELTA-T (TEMPERATURE DIFFERENTIAL) BLITA-T (TEMPERATURE DIFFERENTIAL) BLITA-T (TEMPERATURE DIFFERENTIAL) BLITA-T (TEMPERATURE SCH EXHAUST FAN EXHAUST REGISTER SD ENTERING AIR TEMPERATURE SEN SELECTRICAD AMPS ENTERING AIR TEMPERATURE EXTERNAL STATIC PRESSURE FERT EXPENDITY EXHAUST REGISTER SP SENSIBLE EXTERNAL STATIC PRESSURE EXTERNAL STATIC PRESSURE FERT EXPERATURE SP SENSIBLE FAHRENHEIT SP SENSIBLE FERT EXPERATURE SP SENSIBLE FAHRENHEIT SP STATIC PRESSURE FERT PRESSURE FERT PER SECOND TYP STATIC PRESSURE FEIT PER SECOND THAT	ATC	= AUTOMATIC TEMPERATURE CONTROL	LB	
AV = AIR VENT BHP = BRAKE HORSEPOWER BTU = BRRISH THERMAL UNIT BTU = BRITISH THERMAL UNIT BTU = BRETISH SUPPLY AND BEEFER MINUTE BTU = BRETISH BRITISH SEED SUPPLY AND BEEFER MINUTE BTU = BRETISH BRITISH SEED SUPPLY AND BEEFER BRITISH SEED SUPPLY FAN BEEFER BRITISH BR	AIR VENT BRAKE HORSEPOWER BRAKE HORSEPOWER BRITISH THERMAL UNIT BRITISH THERMAL UNIT BRITISH THERMAL UNIT BRITISH THERMAL UNIT BTU PER HOUR LVG = LEAVING CENTER TO CENTER MAX = MAXIMUM = CAPACITY MBH = THOUSANDS BTUH CUBIC FEET MIN = MINIMUM CUBIC FEET PER HOUR MO = MOTOR-OPERATED CUBIC FEET PER HOUR MO = MOTOR-OPERATED CUBIC FEET PER HOUR NC = NORMALLY CLOSED CONNECTION NIC = NOT IN CONTRACT DRY BULB NTS = NOT TO SCALE DEGREE DIAMETER PH = PHASE (ELECTRICAL) DIFFERENCE OR DELTA DIFFERENCE OR DELTA DELTA-P (PRESSURE DIFFERENTIAL) BELTA-T (TEMPERATURE DIFFERENTIAL) BELTA-T (TEMPERATURE DIFFERENTIAL) BENTERING AIR TEMPERATURE BY ALL STATIC PRESSURE ENTERING AIR TEMPERATURE SHAUST FAN BUT PACKAGED ROOLTON PENSING ENTERING WATER TEMPERATURE SET = SQUARE FEET OR SUPPLY FAN EXTERNAL STATIC PRESSURE ENTERING WATER TEMPERATURE SET = SQUARE FEET OR SUPPLY FAN FALLENDER ENTERING WATER TEMPERATURE SET = SQUARE FEET OR SUPPLY FAN FELLET PRESSURE FEHT PER SECOND TYP = TYPICAL HIGH PRESSURE HIGH PRESSURE FEET PER MINUTE FEET PER SECOND TYP = TYPICAL HIGH PRESSURE SWITCH HIGH PRESSURE SWITCH W = WATT OR WIDE HEATING AND VENTILATING UNIT WB = WET BULB	ATM	= ATMOSPHERE		
BTU = BRITISH THERMAL UNIT BTU + BTU PER HOUR C TO C = CENTER TO CENTER C TO C TO CENTER C TO CENTER C TO C TO CENTER C TO C TO CENTER C TO CENTER C TO CENTER C TO C TO CENTER C TO C TO CENTER C TO CENTER C TO C TO CENTER C TO CEN	BRITISH THERMAL UNIT BTU PER HOUR LVG = LEAVING CENTER TO CENTER MAX = MAXIMUM = CAPACITY MBH = THOUSANDS BTUH CUBIC FEET MIN = MINIMUM CUBIC FEET MIN = MINIMUM CUBIC FEET PER HOUR MIN = MINIMUM CUBIC FEET PER HOUR MIN = MINIMUM CUBIC FEET PER HOUR MIN = MOTOR-OPERATED CUBIC FEET PER HOUR MIN = MOTOR-OPERATED CUBIC FEET PER MINUTE NC = NORMALLY CLOSED CONNECTION NIC = NOT IN CONTRACT DRY BULB NTS = NOT TO SCALE DEGREE OA = OUTSIDE AIR DIAMETER DIAMETER DIAMETER DIAMETER DIAMETER DIFFERENCE OR DELTA DIFFERENCE OR DELTA DELTA-P (PRESSURE DIFFERENTIAL) RA = RETURN DELTA-T (TEMPERATURE DIFFERENTIAL) RA = RETURN AIR DIRECT EXPANSION (REFRIGERANT) COOLING RH = RILA ENTERING AIR TEMPERATURE ENTERING AIR TEMPERATURE ENTERING AIR TEMPERATURE ENTERING AIR TEMPERATURE EXHAUST FAN RTU = PACKAGED ROOFTOP HVAC UNIT EXHAUST FAN RTU = PACKAGED ROOFTOP HVAC UNIT EXHAUST FROISTER SD = SUPPLY AIR DIFFEUSER EXTERNAL STATIC PRESSURE ENTERING WATER TEMPERATURE ENTERING WATE	AV	= AIR VENT	LF	
BTUH = BTU PER HOUR C TO C = CENTER TO CENTER C CTO C = CENTER TO CENTER C CTO C = CENTER TO CENTER CAP = CAPACITY MBH = THOUSANDS BTUH CF = CUBIC FEET FER HOUR CFH = CUBIC FEET PER HOUR CFH = CUBIC FEET PER HOUR CFM = CUBIC FEET PER HOUR CFM = CUBIC FEET PER MINUTE C = NORMALLY CLOSED CONN = CONNECTION NIC = NORMALLY CLOSED CONN = CONNECTION NIC = NOT IN CONTRACT DB = DRY BULB DEG = DEGREE DEG = DEGREE DIA = DIFFERENCE OR DELTA DIA = DIFFERENCE OR DELTA DIFF = DIFFERENCE OR DELTA DIFF = DIFFERENCE OR DELTA DIA = DELTA-P (PRESSURE DIFFERENTIAL) A T = DELTA-T (TEMPERATURE DIFFERENTIAL) A T = DELTA-T (TEMPERATURE DIFFERENTIAL) CAT = ENTERING AIR TEMPERATURE EF = EXHAUST FAN CAT = ENTERING AIR TEMPERATURE EF = EXHAUST FAN ES = EXHAUST FAN ES = EXHAUST FAN ENTERING WATER TEMPERATURE EF = EXHAUST FAN ENTERING WATER TEMPERATURE ENTERING WATER TEMPERA	BTU PER HOUR CENTER TO CENTER MAX = MAXIMUM = CAPACITY MBH = THOUSANDS BTUH CUBIC FEET PER HOUR CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CUBIC FEET PER MINUTE MO = MOTOR-OPERATED CUBIC FEET PER MINUTE CUBIC FEET PER MINUTE CONNECTION NIC = NORMALLY CLOSED CONNECTION NIC = NOT IN CONTRACT DRY BULB DEGREE DA = OUTSIDE AIR DIAMETER DELTA-T (TEMPERATURE DIFFERENTIAL) DELLTA-T (TEMPERATURE DIFFERENTIAL) DRECT EXPANSION (REFRIGERANT) COOLING EACH EACH EXHAUST FAN EXHAUST FAN EXHAUST FAN EXHAUST REGISTER EXHAUST REGISTER EXHEUR SURE EXHEUR SURE EXTERING WATER TEMPERATURE ENTERING WATER TEMPERATURE FEET PER SECOND TYP TYP TYPICAL UH UNIT HEATER HIGH PRESSURE SWITCH HEATING AND VENTILATING UNIT WE WATT OR WIDE HEATING AND VENTILATING UNIT	BHP	= BRAKE HORSEPOWER	LPS	= LOW PRESSURE SWITCH
BTUH = BTU PER HOUR C TO C = CENTER TO CENTER C C O C = CENTER TO CENTER CAP = CAPACITY MBH = THOUSANDS BTUH CF = CUBIC FEET FER HOUR CFH = CUBIC FEET PER HOUR CFH = CUBIC FEET PER HOUR CFM = CUBIC FEET PER HOUR CFM = CUBIC FEET PER MINUTE CFM = CUBIC F	BTU PER HOUR CENTER TO CENTER MAX = MAXIMUM = CAPACITY MBH = THOUSANDS BTUH CUBIC FEET PER HOUR CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CUBIC FEET PER MINUTE MO = MOTOR-OPERATED CUBIC FEET PER MINUTE CUBIC FEET PER MINUTE CONNECTION NIC = NORMALLY CLOSED CONNECTION NIC = NOT IN CONTRACT DRY BULB DEGREE DEGREE DA = OUTSIDE AIR DIAMETER DIAMETER DIAMETER DIAMETER DIAMETER DIAMETER DELTA-T (TEMPERATURE DIFFERENTIAL) DELLTA-T (TEMPERATURE DIFFERENTIAL) BACH EACH EACH EATHER ARD EATHER EATHER ARD EATHER E	BTU	= BRITISH THERMAL UNIT	LRA	= LOCKED ROTOR AMPS
C TO C = CENTER TO CENTER CAP = CAPACITY CAP = CAPACITY CF = CUBIC FEET PER HOUR CFH = CUBIC FEET PER HOUR CFH = CUBIC FEET PER MINUTE CFM = CUBIC FEET PER MINUTE CONN = CONNECTION B = DRY BULB DEG = DEGREE DIA = DIAMETER DIA = DIAMETER DIA = DIAMETER DIA = DELTA-P (PRESSURE DIFFERENTIAL) AT = DELTA-T (TEMPERATURE DIFFERENTIAL) DX = DIRECT EXPANSION (REFRIGERANT) COOLING CAT = ENTERING AIR TEMPERATURE EF = EXHAUST FAN CAT = ENTERING AIR TEMPERATURE ESP = EXTENDA STATIC PRESSURE ESP = EXTENDA STATIC PRESSURE EVALUATION FOR SUPPLY FAN FC = FAHRENHEIT FC = FAHRENHEIT FC = FEET PER MINUTE FPS = FEET PER SUCNE FPS = SOUARE FEET OR SUPPLY FAN FC = FEET PER SURDE FPS = SOUARE FEET OR SUPPLY FAN FC = FEET PER SURDE FPS = SUPPLY AIR DIFFUSER FPM = FEET PER SURDE FF = FAHRENHEIT FC = FAHRENHEIT FF = FAHR	CENTER TO CENTER = CAPACITY MBH = CAPACITY MBH CUBIC FEET MIN MBH CUBIC FEET PER HOUR CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CUBIC FEET PER MINUTE CUBIC FEET PER MINUTE COUNCETION NIC NOT IN CONTRACT DRY BULB DEGREE OA OA OUTSIDE AIR DIAMETER DIAMETER DIAMETER DIAMETER DIAMETER DIAMETER DIAMETER DIAMETER DIFFERENCE OR DELTA DOWN PSIG POUNDS PER SQUARE INCH DOWN PSIG POUNDS PER SQUARE INCH DOWN PSIG POUNDS PER SQUARE INCH GAGE DELTA-T (TEMPERATURE DIFFERENTIAL) RA DIRECT EXPANSION (REFRIGERANT) COOLING RH ENTERING AIR TEMPERATURE RETURN DIAMETER RETURN BALA DIRECT EXPANSION (REFRIGERANT) COOLING RH RELATIVE HUMIDITY EACH RILA EXHAUST FAN RTU PACKAGED ROOFTOP HVAC UNIT EXHAUST REGISTER SD SUPPLY AIR DIFFUSER EXTERNAL STATIC PRESSURE ENTERING WATER TEMPERATURE EN	BTUH	= BTU PER HOUR		= LEAVING
CF = CUBIC FEET CURIC FEET CORN CFH = CUBIC FEET PER HOUR CFH = CUBIC FEET PER MINUTE CFM = CUBIC FEET PER MINUTE CONN = CONNECTION CONN = CONN	CUBIC FEET CUBIC FEET PER HOUR CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CONNECTION NIC NIC NIC NOT IN CONTRACT DRY BULB NTS NOT TO SCALE DEGREE OA OA OUTSIDE AIR DIAMETER DIAMETER DIAMETER DIAMETER DIFFERENCE OR DELTA DIFFERENCE OR DELTA DIFFERENCE OR DELTA DIFFERENTIAL) RA ELTURN AIR DELTA-P (PRESSURE DIFFERENTIAL) DIRECT EXPANSION (REFRIGERANT) COOLING BAH ENTERING AIR TEMPERATURE DIFFERENTIAL) EXHAUST FAN ENTERING AIR TEMPERATURE ENTERING WATER TEMPERATURE EXTERNAL STATIC PRESSURE EXTERNAL STATIC PRESSURE EXTERNAL STATIC PRESSURE EXTERNAL STATIC PRESSURE FAHRENHEIT FAHRENHEIT FAHRENHEIT FEET PER SECOND FROM MIN EMINIMUM MOO MOOR MOOR MOOR MOOR MOOR NICLOUSED NICLO AND AMPS ENTERING WATER TEMPERSURE FEET PER SECOND TYP TYP TYPICAL FEET PER SECOND FEET PER SECOND FEET PER SECOND FINE MOOR MAD AMPER HIGH HEATING AND VENTILATING UNIT WB WB WE WET BULLB WATT OR WIDE WATT OR WIDE WATT OR WIDE WATT OR WIDE WET BULLB WE WATT OR WIDE WET BULLB WE WET BULLB	СТОС			
CF = CUBIC FEET C MIN = MINIMUM CFM = CUBIC FEET PER HOUR CFM = CUBIC FEET PER MINUTE CFM = CUBIC FEET PER MINUTE CONN = CONNECTION CONN = CONN = CONNECTION CONN =	CUBIC FEET CUBIC FEET PER HOUR CUBIC FEET PER MINUTE NC = NORMALLY CLOSED CONNECTION NIC = NOT IN CONTRACT DRY BULB BEGREE OA = OUTSIDE AIR DIAMETER DIAMETER DIAMETER DIAMETER DIAMETER DIAMETER DIAMETER DIFFERENCE OR DELTA DIFFERENCE OR DELTA DIFFERENTIAL) DIFFERENCE OR DELTA DELTA-P (PRESSURE DIFFERENTIAL) DELTA-P (PRESSURE DIFFERENTIAL) DELTA-T (TEMPERATURE DIFFERENTIAL) BELTA-T (TEMPERATURE DIFFERENTIAL) BELTA-T (TEMPERATURE DIFFERENTIAL) BAA = RETURN AIR DIRECT EXPANSION (REFRIGERANT) COOLING BAY = REMANDER AIR ENTERING AIR TEMPERATURE BENTERING AIR TEMPERATURE BENTERING WATER TEMPERATURE EXTERNAL STATIC PRESSURE FAHRENHEIT SF = SQUARE FEET OR SUPPLY FAN FLEXIBLE CONNECTOR SP = STATIC PRESSURE FEET PER MINUTE FEET PER MINUTE FEET PER SECOND TYP = TYPICAL FEET PER SECOND HOW AND AMPS HEAD AMPER HIGH HEATING AND VENTILATING UNIT WB = WET BULB	CAP	= CAPACITY	MBH	= THOUSANDS BTUH
CFM = CUBIC FEET PER MINUTE CONN = CONNECTION CONN = CONNECTION NIC = NOT IN CONTRACT DB = DRY BULB NTS = NOT TO SCALE DEG = DEGREE DIA = DIAMETER DIA = DIAMETER DIFF = DIFFERENCE OR DELTA DIFF = DIFFERENCE OR DELTA DIFF = DOWN DIFF = DELTA-P (PRESSURE DIFFERENTIAL) A T = DELTA-P (PRESSURE DIFFERENTIAL) A T = DELTA-T (TEMPERATURE DIFFERENTIAL) DX = DIRECT EXPANSION (REFRIGERANT) COOLING BA = EACH CAT = ENTERING AIR TEMPERATURE EF = EXHAUST FAN ER = EXHAUST FAN ER = EXHAUST FAN ER = EXHAUST FAN ER = EXHAUST REGISTER ESP = EXTERNAL STATIC PRESSURE EWT = ENTERING WATER TEMPERATURE EF = FAHRENHEIT FC = FAHRENHEIT FC = FAHRENHEIT FC = FAHRENHEIT FC = FLEXIBLE CONNECTOR FFM = FEET PER MINUTE FFM = FEET PER MINUTE FFM = FEET PER MINUTE FFM = FEET PER SECOND TYP = TYPICAL FT = FEET FTM = HIGH FTM = HORSEPOWER FN UNT EACH FTM = HORSEPOWER FN UNT EACH FTM = FANTAIRC PRESSURE FTM = TOTAL STATIC PRESSURE FTM = FEET PER SECOND TYP = TYPICAL FTM = FOULL LOAD AMPS FTM = FEET PER SECOND FTM = HORSEPOWER FTM = NOT TISING TO STATIC PRESSURE FTM = HORSEPOWER FTM = FOUNT STATIC PRESSURE FTM = HORSEPOWER FTM = HORS	CUBIC FEET PER MINUTE CONNECTION NIC NIC NTS NTS NTS NTS NTS NTS NTS NT	CF	= CUBIC FEET	MIN	= MINIMUM
CFM = CUBIC FEET PER MINUTE CONN = CONNECTION CONN = CONNECTION NIC = NOT IN CONTRACT DB = DRY BULB NTS = NOT TO SCALE DEG = DEGREE DIA = DIAMETER DIA = DIAMETER DIFF = DIFFERENCE OR DELTA DIFF = DIFFERENCE OR DELTA DIFF = DOWN DIFF = DELTA-P (PRESSURE DIFFERENTIAL) A T = DELTA-P (PRESSURE DIFFERENTIAL) A T = DELTA-T (TEMPERATURE DIFFERENTIAL) DX = DIRECT EXPANSION (REFRIGERANT) COOLING BA = EACH CAT = ENTERING AIR TEMPERATURE EF = EXHAUST FAN ER = EXHAUST FAN ER = EXHAUST FAN ER = EXHAUST FAN ER = EXHAUST REGISTER ESP = EXTERNAL STATIC PRESSURE EWT = ENTERING WATER TEMPERATURE EF = FAHRENHEIT FC = FAHRENHEIT FC = FAHRENHEIT FC = FAHRENHEIT FC = FLEXIBLE CONNECTOR FFM = FEET PER MINUTE FFM = FEET PER MINUTE FFM = FEET PER MINUTE FFM = FEET PER SECOND TYP = TYPICAL FT = FEET FTM = HIGH FTM = HORSEPOWER FN UNT EACH FTM = HORSEPOWER FN UNT EACH FTM = FANTAIRC PRESSURE FTM = TOTAL STATIC PRESSURE FTM = FEET PER SECOND TYP = TYPICAL FTM = FOULL LOAD AMPS FTM = FEET PER SECOND FTM = HORSEPOWER FTM = NOT TISING TO STATIC PRESSURE FTM = HORSEPOWER FTM = FOUNT STATIC PRESSURE FTM = HORSEPOWER FTM = HORS	CUBIC FEET PER MINUTE CONNECTION NIC NIC NTS NTS NTS NTS NTS NTS NTS NT	CFH	= CUBIC FEET PER HOUR	MO	= MOTOR-OPERATED
DB = DRY BULB DEG = DEGREE OA = OUTSIDE AIR DIA = DIAMETER DIA = DIAMETER DIFF = DIFFERNCE OR DELTA DIFF = DIFFERNCE OR DELTA DIFF = DIFFERNCE OR DELTA DN = DOWN APPEND A	DRY BULB DEGREE DEGREE OA = OUTSIDE AIR DIAMETER PH = PHASE (ELECTRICAL) DIFFERENCE OR DELTA DIFFERENCE OR DELTA DOWN PSIG = POUNDS PER SQUARE INCH DOWN DELTA-P (PRESSURE DIFFERENTIAL) DELTA-P (PRESSURE DIFFERENTIAL) DELTA-T (TEMPERATURE DIFFERENTIAL) RA = RETURN DIRECT EXPANSION (REFRIGERANT) COOLING EACH ENTERING AIR TEMPERATURE EXHAUST FAN EXTERNAL STATIC PRESSURE EXTERNAL STATIC PRESSURE ENTERING WATER TEMPERATURE FAHRENHEIT SF = SQUARE FEET OR SUPPLY FAN FLEXIBLE CONNECTOR SP = STATIC PRESSURE FULL LOAD AMPS SR = SUPPLY REGISTER FEET PER MINUTE FEET PER MINUTE FEET PER SECOND TYP = TOTAL STATIC PRESSURE FEET PER SECOND FEET PER SECOND FEET HIGH HORSEPOWER HIGH PRESSURE SWITCH HORSEPOWER HIGH PRESSURE SWITCH HEATING AND VENTILATING UNIT WB = WET BULB	CFM	= CUBIC FEET PER MINUTE	NC	
DEG DEGREE DIA DIAMETER DIA DIAMETER DIFF = DIFFERENCE OR DELTA DIFF = DIFFERENCE OR DELTA DIFF = DIFFERENCE OR DELTA DN = DOWN DOWN DOWN DOWN DYSIG = POUNDS PER SQUARE INCH GA DELTA-P (PRESSURE DIFFERENTIAL) DY = DELTA-P (PRESSURE DIFFERENTIAL) DY = DELTA-T (TEMPERATURE DIFFERENTIAL) DX = DIRECT EXPANSION (REFRIGERANT) COOLING RH = RELATIVE HUMIDITY EA = EACH CAT = ENTERING AIR TEMPERATURE RF = EXHAUST FAN ER = EXHAUST FAN ER = EXHAUST REGISTER EWT = ENTERING WATER TEMPERATURE EWT = ENTERING WATER TEMPERATURE F = FAHRENHEIT F = FEET FER MINUTE F = FEET F = FONDAMPER F = FONDAMPER F = FONDAMPER F = FEET F = FONDAMPER F = FONDAMPER F = FAHRENHEIT F = FEET F = F	DEGREE DIAMETER DIAMETER DIAMETER DIAMETER DIAMETER DIFFERENCE OR DELTA DIFFERENCE OR DELTA DOWN PSIG = POUNDS PER SQUARE INCH DOWN PSIG = POUNDS PER SQUARE INCH GAGE DELTA-P (PRESSURE DIFFERENTIAL) R DELTA-T (TEMPERATURE DIFFERENTIAL) RA = RETURN AIR DIRECT EXPANSION (REFRIGERANT) COOLING RH EXHAUST FAN ENTERING AIR TEMPERATURE EXHAUST FAN EXTERMACE EXTERNAL STATIC PRESSURE EXTERNAL STATIC PRESSURE ENTERING WATER TEMPERATURE FULL LOAD AMPS FULL LOAD AMP	CONN	= CONNECTION	NIC	= NOT IN CONTRACT
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DIFF DOWN = DOWN PER SQUARE INCH DN = DOWN PER SQUARE INCH DN = DOWN = DOWN PER SQUARE INCH GA A P = DELTA-P (PRESSURE DIFFERENTIAL) R = RETURN AIR Δ T = DELTA-T (TEMPERATURE DIFFERENTIAL) RA = RETURN AIR DX = DIRECT EXPANSION (REFRIGERANT) COOLING RH = RELATIVE HUMIDITY EA = EACH RLA = RUNNING LOAD AMPS CAT = ENTERING AIR TEMPERATURE RPM = REVOLUTIONS PER MINUTE EF = EXHAUST FAN RTU = PACKAGED ROOFTOP HVAC UN ER = EXHAUST REGISTER SD = SUPPLY AIR DIFFUSER ESP = EXTERNAL STATIC PRESSURE SCT = SATURATED CONDENSING TEM EWT = ENTERING WATER TEMPERATURE SEN = SENSIBLE F = FAHRENHEIT SF = SQUARE FEET OR SUPPLY FAN FC = FLEXIBLE CONNECTOR SP = STATIC PRESSURE FPM = FEET PER MINUTE TSP = TOTAL STATIC PRESSURE FPS = FEET PER MINUTE TSP = TOTAL STATIC PRESSURE FPS = FEET PER SECOND TYP = TYPICAL H = HIGH V	DIFFERENCE OR DELTA DOWN PSIG = POUNDS PER SQUARE INCH DOWN DELTA-P (PRESSURE DIFFERENTIAL) DELTA-P (PRESSURE DIFFERENTIAL) DELTA-T (TEMPERATURE DIFFERENTIAL) DELTA-T (TEMPERATURE DIFFERENTIAL) RA = RETURN AIR DIRECT EXPANSION (REFRIGERANT) COOLING RH = RELATIVE HUMIDITY EACH ENTERING AIR TEMPERATURE RYM = REVOLUTIONS PER MINUTE EXHAUST FAN RTU = PACKAGED ROOFTOP HVAC UNIT EXHAUST REGISTER SD = SUPPLY AIR DIFFUSER EXTERNAL STATIC PRESSURE EXTERNAL STATIC PRESSURE ENTERING WATER TEMPERATURE SEN = SENSIBLE FAHRENHEIT SF = SQUARE FEET OR SUPPLY FAN FLEXIBLE CONNECTOR SP = STATIC PRESSURE FULL LOAD AMPS FULL LOAD AMPS FEET PER MINUTE FEET PER MINUTE FEET PER SECOND TYP = TOTAL STATIC PRESSURE FEET PER SECOND FEET HIGH HIGH HORSEPOWER HIGH PRESSURE SWITCH WB = WET BULB	DEG	= DEGREE		
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FLA = FULL LOAD AMPS FPM = FEET PER MINUTE FPS = FEET PER SECOND FT = FEET H = HIGH HP = HORSEPOWER SR = SUPPLY REGISTER TSP = TOTAL STATIC PRESSURE TYP = TYPICAL HYP = HORSEPOWER V = VOLT (ELECTRICAL) WD = MANUAL VOLUME DAMPER	FULL LOAD AMPS FEET PER MINUTE FEET PER SECOND FEET FEET PER SECOND TYP FEET UH FUNIT HEATER HIGH HORSEPOWER HIGH PRESSURE SWITCH HEATING AND VENTILATING UNIT SR ### SUPPLY REGISTER ### TOTAL STATIC PRESSURE ### UNIT HEASURE ### UNIT HEATER ### UNIT HEATER ### V ### WATT OR WIDE ### WATT OR WIDE ### WET BULB	F	= FAHRENHEIT	SF	= SQUARE FEET OR SUPPLY FAN
FPM = FEET PER MINUTE FPS = FEET PER SECOND TYP = TYPICAL FT = FEET UH = UNIT HEATER H = HIGH V = VOLT (ELECTRICAL) HP = HORSEPOWER TSP = TOTAL STATIC PRESSURE TYP = TYPICAL VP = VOLT (ELECTRICAL) VD = MANUAL VOLUME DAMPER	FEET PER MINUTE FEET PER SECOND TYP = TYPICAL FEET HIGH HORSEPOWER HIGH PRESSURE SWITCH HEATING AND VENTILATING UNIT TSP = TOTAL STATIC PRESSURE TYP = TYPICAL UH = UNIT HEATER V = VOLT (ELECTRICAL) = MANUAL VOLUME DAMPER W = WATT OR WIDE WB = WET BULB	FC	= FLEXIBLE CONNECTOR	SP	= STATIC PRESSURE
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	FEET PER SECOND TYP = TYPICAL FEET UH = UNIT HEATER HIGH HORSEPOWER HORSEPOWER HIGH PRESSURE SWITCH HEATING AND VENTILATING UNIT TYP = TYPICAL W = UNIT HEATER W = WANUAL VOLUME DAMPER W = WATT OR WIDE WE = WET BULB	FLA	= FULL LOAD AMPS	SR	= SUPPLY REGISTER
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	FEET UH = UNIT HEATER HIGH V = VOLT (ELECTRICAL) HORSEPOWER VD = MANUAL VOLUME DAMPER HIGH PRESSURE SWITCH W = WATT OR WIDE HEATING AND VENTILATING UNIT WB = WET BULB	FPM	= FEET PER MINUTE	TSP	= TOTAL STATIC PRESSURE
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	HIGH V = VOLT (ELECTRICAL) HORSEPOWER VD = MANUAL VOLUME DAMPER HIGH PRESSURE SWITCH W = WATT OR WIDE HEATING AND VENTILATING UNIT WB = WET BULB	FPS	= FEET PER SECOND	TYP	= TYPICAL
HP = HORSEPOWER VD = MANUÂL VOLUME DAMPER	HORSEPOWER VD = MANUAL VOLUME DAMPER HIGH PRESSURE SWITCH W = WATT OR WIDE HEATING AND VENTILATING UNIT WB = WET BULB	FT	= FEET	UH	= UNIT HEATER
	HIGH PRESSURE SWITCH W = WATT OR WIDE HEATING AND VENTILATING UNIT WB = WET BULB	Н	= HIGH	V	= VOLT (ELECTRICAL)
HPS = HIGH PRESSURE SWITCH W = WATT OR WIDE	HEATING AND VENTILATING UNIT WB = WET BULB	HP	= HORSEPOWER	VD	= MANUAL VOLUME DAMPER
		HPS	= HIGH PRESSURE SWITCH	W	= WATT OR WIDE
HV = HEATING AND VENTILATING UNIT WB = WET BULB	FREQUENCY (CYCLES PER SECOND)	HV	= HEATING AND VENTILATING UNIT	WB	= WET BULB
HZ = FREQUENCY (CYCLES PER SECOND)		HZ	= FREQUENCY (CYCLES PER SECOND)		

ABBREVIATIONS

= AIR CONDITIONING

= AMBIENT

PACKAGED HEATING AND COOLING UNIT SCHEDULE (PROVIDED BY CUMBERLAND FARMS)																					
							CO	OLING DATA			HEATIN	NG DATA (NG)						ELECTRICAL DA	TA		
SYMBOL	LOCATION (S) SERVED	MANUFACTURER	MODEL	TYPE	TONS/MBH	EAT °F DB/WB	LAT °F DB/WB	BTUH INPUT	BTUH OUTPUT	EAT °F	LAT °F	CFM AIR	MINIMUM OA CFM	EXTERNAL SP (INCHES)	MCA	MAX FUSE	VOLTAGE	OPERATING WEIGHT	NOTES		
RTU-1	SEE DRAWINGS	TRANE	YHC060	DOWNFLOW	5 / 61	80 / 67	59.6 / 57.3	130,000	103,000	60.6° F	108.3° F	2000	220	1.00"	27.4	40	208/3/60	976.0 lbs	1		
RTU-2	SEE DRAWINGS	TRANE	YHC060	DOWNFLOW	5 / 61	80 / 67	59.6 / 57.3	130,000	103,000	60.6° F	108.3° F	2000	220	1.00"	27.4	40	208/3/60	976.0 lbs	1		
NOTES				•	•					•	•							•			

* S = SUPPLY

* R = RETURN

PIPE TURNING DOWN

DEMOLITION

SUPPLY AIR DIFFUSER

DIRECTION OF FLOW IN PIPE

TRANSITION FROM ROUND TO RECTANGULAR

DUCTWORK

RETURN OR EXHAUST REGISTER OR GRILLE

REMOTE SPACE TEMPERATURE SENSOR

FURNISH UNIT WITH 14"HIGH ROOF CURB, COMPARATIVE ENTHALPY ECONOMIZER 0-100% WITH BAROMETRIC RELIEF, 2" PLEATED MERV 8 FILTERS, MICROPROCESSOR CONTROLS, ANTI-SHORT CYCLE TIMER, TIME DELAY RELAY, MULTISTAGE PROGRAMMABLE ELECTRONIC AUTO-CHANGEOVER NIGHT SETBACK THERMOSTAT WITH REMOTE HUMIDITY AND TEMPERATURE SENSORS, DEHUMIDIFICATION-HOT GAS REHEAT, NON-FUSED DISCONNECT, BELT DRIVE OPTION AND UNPOWERED CONVENIENCE OUTLET.

EXHAUST FAN SCHEDULE (PROVIDED BY CUMBERLAND FARMS)									
SYMBOL	LOCATION (S)	MODEL NUMBER	CFM	SP (EXT)	ELECTRICAL DATA			FAN TYPE	REMARKS
01111202	SERVED	MODEL NOMBER	0	0. (2,1.)	HP	FAN RPM	VOLTAGE	17.1.7.1.1.2	TEND UTIO
EF-1	RESTROOM	GREENHECK,SP-A110	75	0.25"	49w	950	120 V/1 PH	CEILING-MOUNTED	1)
EF-2	RESTROOM	GREENHECK,SP-A110	75	0.25"	49w	950	120 V/1 PH	CEILING-MOUNTED	1)
EF-3	SEE PLANS	ACME MODEL PRN-80	200	0.25"	6.0 AMP	1725	120 V/1 PH	ROOF-MOUNTED	2)

- 1) CONTROLLED UNDER DIVISION 16.
- 2) FURNISH WITH MIN 12" HIGH INSULATED ROOF CURB, SOLID STATE SPEED CONTROL, DISCONNECT SWITCH, ALUMINUM BIRDSCREEN AND BACKDRAFT DAMPER. SET AIRFLOW AT 150 CFM THRU USE OF SOLID STATE SPEED CONTROLLER

DIFFUSER, REGISTER & GRILLE SCHEDULE								
SYMBOL	MANUFACTURER	MODEL	TYPE	THROW	CFM	THROAT SIZE	FACE SIZE	NOTES
S-1	PRICE	SDBI	CEILING, LINEAR	ADJUSTABLE	190		4x48	1, 5, 6
S-2	PRICE	SDBI	CEILING, LINEAR	ADJUSTABLE	175, 185		4x48	1, 4, 6
S-3	PRICE	SMDA	CEILING	3W	50	6x6	12x12	1, 5
S-4	PRICE	SMDA	CEILING	4W	140 - 250	9x9	24x24	1, 4
R-1	PRICE	630DAL-TB	CEILING		1780	46x22	48x24	1, 4
T-1	PRICE	630DAL-TB	CEILING		690	22x22	24x24	1, 4
E-1	PRICE	630DAL	CEILING		150	22x12	24x14	1, 5

- NOTES: 1) ALUMINUM CONSTRUCTION, FACTORY PAINTED WHITE ENAMEL.
 - 2) PROVIDE OPPOSED-BLADE DAMPERS ON ALL REGISTERS AND DIFFUSERS.
 - 3) ALL UNITS, PROVIDE SQUARE TO ROUND TRANSITIONS AS NECESSARY.
 - 4) LAY-IN TYPE
 - 5) SURFACE-MOUNT

 - 6) PROVIDE WITH 10"H INSULATED PLENUM w/ 7"Ø INLET CONN. AND TWO 1" SLOTS.
 - 7) IN BOTH RECTANGULAR & RECTANGULAR TO ROUND TRANSITIONS, SLOPE IS NOT TO EXCEED 1" IN 4".

MOUNTING & FINISH REQUIREMENTS WITH ARCHITECTURAL REFLECTED CEILING PLANS.

- 8) ALL REGISTERS, GRILLES AND DIFFUSERS SHALL BE INSULATED TYPE. 9) ALL UNITS. PROVIDE FRAME SUITABLE FOR SURFACE MOUNTING. CEILING OR SIDEWALL: COORDINATE
- * E = EXHAUST * T = TRANSFER ** SIZE *** CFM PROVIDE REDUCER AT INLET CONNECTION.

MECHANICAL NOTES

- 1) THE HVAC CONTRACTOR SHALL COORDINATE ALL WORK TO BE PERFORMED WITH THE GENERAL, PLUMBING AND ELECTRICAL CONTRACTORS. ANY WORK DONE BY THIS CONTRACTOR WHICH INTERFERES WITH WORK BY OTHERS AND WHICH WAS NOT FIRST COORDINATED SHALL BE REMOVED AND RELOCATED AT HVAC CONTRACTOR'S EXPENSE.
- 2) THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL UTILITIES AND THE PLACEMENT OF ALL MECHANICAL EQUIPMENT PRIOR TO THE START OF HIS WORK. NO EXTRAS WILL BE ALLOWED DUE TO EQUIPMENT LOCATION CHANGE FROM THAT SHOWN ON DRAWINGS.
- 3) IT IS THE INTENT THAT THE WORK SHALL BE COMPLETE IN EVERY RESPECT, AND THAT ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS. BUT NECESSARY TO FULLY COMPLETE THE WORK. SHALL BE PROVIDED.
- 4) THE LOCATION OF SOME ITEMS SHOWN ON THE DRAWINGS MAY BE APPROXIMATE AND THE OWNER SHALL HAVE THE RIGHT TO MAKE REVISIONS BEFORE THE WORK IS
- INSTALLED, WITHOUT ADDITIONAL COST.
- 5) ALL WORK SHALL BE IN ACCORDANCE WITH ASHRAE, SMANCA OR GOVERNING CODES (MORE STRINGENT SHALL APPLY IN ALL INSTANCES)
- 6) ALL SUPPLY & RETURN DUCTS SHALL BE INSULATED WITH 1-1/2" THICK FLEXIBLE FIBERGLASS BLANKET INSULATION WITH VINYL VAPOR BARRIER AS MANUFACTURED BY KNAUF FIBER GLASS OR EQUAL.
- 7) DUCT SIZES GIVEN ARE INSIDE CLEAR DIMENSIONS.
- 8) ROUND DUCTS SHALL BE RIGID WITH LARGE MOUTH TAKEOFF FITTINGS.
- 9) THIS CONTRACTOR SHALL PROVIDE ADJUSTABLE VOLUME DAMPERS IN ALL AIR DISTRIBUTION DUCTWORK, TO FACILITATE AIR BALANCING, AT BOTH BRANCH TAKEOFFS AND AT DIFFUSERS.
- 10) USE TURNING VANES IN ALL SQUARE ELBOWS.
- 11) THIS CONTRACTOR SHALL BALANCE AIR DISTRIBUTION SYSTEM AND SUBMIT BALANCE REPORT TO ARCHITECT/ENGINEER.
- 12) ALL EQUIPMENT WHICH PRODUCES AIR MOVEMENT SHALL HAVE A FLEXIBLE CONNECTOR AT ALL DUCT CONNECTIONS TO EQUIPMENT TO PREVENT THE TRANSMISSION OF VIBRATION TO STRUCTURE.
- 13) ALL MATERIALS USED FOR AIR DISTRIBUTION SHALL BE NON-COMBUSTIBLE AND SHALL HAVE A SMOKE DEVELOPED RATING OF FIFTY (50) OR LESS. DUCTWORK SHALL BE DESIGNED AND INSTALLED IN STRICT CONFORMANCE TO THE CONSTRUCTION STANDARDS OF THE LATEST EDITION OF THE SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION, INC. (SMACNA) LOW PRESSURE SECTION AND SHALL BE CONSTRUCTED OF NEW GALVANIZED SHEET METAL WITH ACCESS DOORS FOR DAMPERS, MOTORS, VALVES OR ANY OTHER EQUIPMENT OR ACCESSORIES WHICH MAY REQUIRE SERVICING.
- 14) FLEXIBLE DUCT SHALL NOT EXCEED FIVE FEET (5') IN LENGTH AND ITS' USE SHALL BE LIMITED ONLY FOR THE FINAL CONNECTIONS TO DIFFUSERS.
- 15) ALL DUCTWORK SHALL BE INSTALLED UP AS HIGH AS PRACTICAL.
- 16) ALL THERMOSTATS SHALL BE PROGRAMMED BY THE INSTALLER PER THE OWNERS DIRECTION.
- 17) TABS SHALL BE REMOVED FROM ALL THERMOSTATS AFTER THERMOSTATS ARE PROGRAMMED BY THE INSTALLER.
- 18) CONTRACTOR SHALL SUPPLY AND INSTALL ASTROLOGICAL TIME CLOCK, WIRED TO THERMOSTATS, FOR SETBACK CAPABILITY.
- 19) SMOKE DETECTORS SHALL BE INSTALLED IN THE SUPPLY AND RETURN DUCTS OF EACH OF THE RTU'S. THE SMOKE DETECTORS SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR, INSTALLED BY THE MECHANICAL CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR.
- 20) THE CONTRACTOR SHALL INSPECT THE EXISTING FIELD CONDITIONS. IF FIELD CONDITIONS WARRANT POSSIBLE DEVIATION FROM "PLANS" FOR SYSTEM AND EQUIPMENT LAYOUT, GC IS OBLIGATED TO BRING TO THE ATTENTION OF THE CF CPM IMMEDIATELY AND RFI SUBMITTED ON E-BUILDER.

GENERAL NOTES

= INSIDE DIAMETER

= INCH

- 1. THE GENERAL REQUIREMENTS, OTHER CONDITIONS, SECTIONS AND DIVISIONS, AS APPROPRIATE, APPLY TO WORK SPECIFIED IN THIS DIVISION. ALSO, ALL MECHANICAL WORK SHALL BE PROVIDED IN STRICT ACCORDANCE WITH THE STATE AND LOCAL CODES, NFPA STANDARD 90A, AND WITH THE STANDARDS AND DETAILS OF THE TENANT'S CONSTRUCTION DEPARTMENT.
- 2. OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES RELATED TO SAME.
- 3. THESE SPECIFICATIONS AND THE ACCOMPANYING DRAWINGS COVER THE PROVISION OF ALL LABOR, EQUIPMENT, APPLIANCES, DEVICES, AND MATERIALS, AND PERFORMING ALL OPERATIONS IN CONNECTION WITH THE CONSTRUCTION OF THE AIR-CONDITIONING, VENTILATION, AND HEATING SYSTEMS AS SPECIFIED HEREIN AND AS SHOWN.
- 4. PROVIDE ALL NECESSARY PIPING, EQUIPMENT AND SUPPORTS AS WELL AS ANY ADDITIONAL EQUIPMENT. ETC. NOT SHOWN ON DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS, BUT NECESSARY TO PROVIDE COMPLETE AND WORKABLE SYSTEMS.
- 5. THE IMPLIED AND STATED INTENT OF THE DRAWINGS AND SPECIFICATIONS ARE TO ESTABLISH THE MINIMUM ACCEPTABLE STANDARDS FOR MATERIALS, EQUIPMENT, WORKMANSHIP, AND TO PROVIDE OPERABLE MECHANICAL SYSTEMS COMPLETE IN EVERY RESPECT.
- 6. ALL DUCTWORK SIZES AND LOCATIONS INDICATED ON THE DRAWINGS ARE THOSE WHICH ARE PREFERRED. IN THAT INTERFERENCES MAY OCCUR DUE TO UNFORESEEN CIRCUMSTANCES AND SYSTEMS, THE CONTRACTOR SHALL VARY SIZES AND LOCATIONS OF DUCTWORK AND DUCT SYSTEMS TO ACCOMMODATE INSTALLATION. IN ANY CASE, THE CROSS SECTIONAL AREA OF THE DUCTWORK IS IMPERATIVE AND ANY CHANGE IN CONFIGURATION SHALL MAINTAIN THE CROSS SECTIONAL AREA OF DUCT AS SIZED ON THE DRAWINGS. DIMENSIONS SHOWN ON THE DRAWINGS ARE INSIDE DIMENSIONS. ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH LATEST ADDITION OF SMACNA.
- 7. THE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT COMPLETE MECHANICAL SYSTEMS ARE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH. ANY ITEMS AND LABOR REQUIRED FOR COMPLETE MECHANICAL SYSTEMS IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND THESE CONTRACT DOCUMENTS SHALL BE PROVIDED WITHOUT ANY ADDITIONAL COST TO THE CONTRACT. THE CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS AND SHALL COORDINATE WITH OTHER TRADES WHILE PREPARING THE MECHANICAL SHOP DRAWINGS.
- 8. DO NOT SCALE THESE DRAWINGS. TAKE ALL MEASUREMENTS IN THE FIELD IN COORDINATION WITH ALL EQUIPMENT AS APPROVED AND WITH ALL OTHER TRADES.
- 9. THE CONTRACTOR SHALL COORDINATE ALL DUCTWORK, PIPING, AND EQUIPMENT WITH THE GENERAL CONTRACTOR, ALL OTHER TRADES, AND STRUCTURAL BUILDING FEATURES INCLUDING FLOOR, WALL, OR ROOF PENETRATIONS. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY OFFSETS OR FITTINGS REQUIRED TO AVOID CONFLICTS AND TO MAINTAIN EQUIPMENT ACCESS AND SERVICEABILITY. CONTRACTOR SHALL VERIFY DUCT, PIPING AND EQUIPMENT LOCATIONS FOR INTERFERENCES BEFORE INSTALLATION.
- 10. REVIEW ALL ARCHITECTURAL, STRUCTURAL, PLUMBING, ELECTRICAL, FIRE PROTECTION AND SITE DRAWINGS BEFORE STARTING ANY WORK TO BECOME FAMILIAR WITH THE DETAILS OF CONSTRUCTION, AND TO COORDINATE WITH OTHER TRADES TO ELIMINATE CONFLICTS.
- 11. PIPING, DUCTWORK, AND EQUIPMENT AS SHOWN IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL DETERMINE EXACT LOCATIONS OF PIPING AND DUCTWORK RUNS, EQUIPMENT LOCATIONS, AND CONNECTIONS TO SUIT
- 12. ALL ROTATING EQUIPMENT SHALL HAVE FLEXIBLE PIPE OR DUCT CONNECTIONS AND APPROVED VIBRATION
- 13. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND/OR SMOKE RATED WALLS AND ASSEMBLIES. PROVIDE U.L. APPROVED FIRE AND/OR SMOKE DAMPERS IN ALL REQUIRED PENETRATIONS FOR DUCTWORK, GRILLES, REGISTERS, AND DIFFUSERS. PROVIDE AND INSTALL DUCT MOUNTED HINGED ACCESS DOORS FOR ALL FIRE OR COMBINATION FIRE/SMOKE DAMPERS NOT OTHERWISE ACCESSIBLE. ALL PIPE AND DUCTWORK PENETRATIONS OF FIRE, SMOKE, AND FULL HEIGHT WALLS SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. APPROVED FIRE PROOF CAULKING MATERIAL.
- 14. AFTER COMPLETION OF CONTRACT WORK, ALL MECHANICAL AREAS SHALL BE THOROUGHLY CLEANED OF ALL DIRT AND DEBRIS.
- 15. DUCT SIZES AS SHOWN ON DRAWINGS REPRESENT CLEAR INSIDE DIMENSIONS.
- 16. PROVIDE VOLUME DAMPERS WITH LOCKED QUADRANTS ON ALL SUPPLY, RETURN, AND EXHAUST BRANCH
- 17. PROVIDE VOLUME EXTRACTORS OR BELLMOUTH CONNECTIONS WITH VOLUME DAMPERS ON ALL TAKEOFFS FROM SUPPLY AIR DUCTS.
- 18. PROVIDE DOUBLE THICKNESS TURNING VANES ON ALL SQUARE ELBOWS DOWNSTREAM OF SYSTEM FANS.
- 19. ALL PIPE PENETRATIONS THRU THE ROOF SHALL BE PROVIDED WITH PITCH POCKETS.
- 20. PROVIDE ACCESS TO ALL EQUIPMENT REQUIRING PERIODIC SERVICE AND MAINTENANCE.
- 21. PROVIDE AIRTIGHT ACCESS DOOR FOR INSPECTION OF FIRE DAMPERS, FILTERS AND COILS.
- 22. FINAL LOCATION OF ALL REGISTERS, GRILLES, AND DIFFUSERS SHALL BE COORDINATED WITH THE REFLECTED CEILING AND LIGHTING PLANS PRIOR TO INSTALLATION. COORDINATE THE TYPE AND LOCATION OF ALL REGISTERS, GRILLES, DIFFUSERS, ACCESS DOORS, ETC. WITH THE ARCHITECTURAL REFLECTED CEILING
- 23. PORTIONS OF DUCTWORK VISIBLE THRU REGISTERS, GRILLES, AND DIFFUSERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
- 24. ALL THERMOSTAT AND SENSOR LOCATIONS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. DEVICES SHALL BE MOUNTED 60" A.F.F. UNLESS LOCATED IN A.D.A. RATED AREAS, WHERE THEIR INSTALLATION SHALL MEET A.D.A REQUIREMENTS.
- 25. CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING. ALLPOWER WIRING AND FINAL CONNECTIONS TO EQUIPMENT SHALL BE PROVIDED UNDER THE ELECTRICAL DIVISION.
- 26. PLENUM RATED CABLE OR TUBING CONTAINED IN CONDUIT.
- 27. THOROUGHLY CLEAN DUCTS AND EQUIPMENT OF ALL FOREIGN SUBSTANCES INSIDE AND OUT BEFORE PLACING IN OPERATION.
- 28. CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT, DUCT, PIPE, VALVE, ETC., SIZES AND ARRANGEMENTS PRIOR TO PURCHASING MATERIALS.
- 29. CONTRACTOR SHALL VISIT THE PROJECT AREA PRIOR TO SUBMITTAL OF PROPOSAL AND THOROUGHLY FAMILIARIZE SELF WITH THE EXISTING CONDITIONS AND ANY OTHER CONDITIONS THAT WILL AFFECT THE PERFORMANCE OF THEIR WORK. FAILURE TO DO SO SHALL NOT ENTITLE THE CONTRACTOR TO ANY ADDITIONAL COMPENSATION FOR PROVIDING A COMPLETE AND APPROVED SYSTEM.
- 30. WHERE EXISTING EQUIPMENT, PIPING, ETC., ARE TO BE REMOVED, ALL ASSOCIATED PIPING SHALL BE REMOVED AND CAPPED TO WITHIN WALLS, FLOORS, OR CEILING AND THE AREA SHALL BE LEFT CLEAR OF ALL
- 31. EXACT LOCATION OF ALL NEW FLOOR AND WALL OPENINGS SHALL BE DETERMINED IN THE FIELD WITH EXISTING CONDITIONS.
- 32. EXISTING ROOF CUTTING, FLASHING, SEALING, ETC., SHALL BE ACCOMPLISHED BY THE ROOFING CONTRACTOR APPROVED BY THE OWNER AND SHALL BE INSTALLED IN ACCORDANCE WITH THE ROOF MANUFACTURER'S RECOMMENDATIONS SO AS TO NOT VOID THE ROOF WARRANTY.
- 33. DISCONNECT AND REMOVE ANY PIPING, VALVES, ETC., WHICH ARE NO LONGER REQUIRED FOR THE NEW
- 34. CONTRACTOR TO FIELD VERIFY AND COORDINATE FINAL LOCATIONS OF DUCT ROUTING AND DIFFUSERS WITH EXISTING ROOF STRUCTURE.

Cumberland Farms Store # 5613 512 Woodford Street

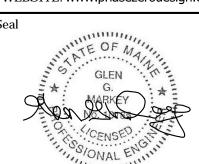
Portland, ME



100 Crossing Blvd Framingham, Ma tel 508 270 1400



40 TREMONT STREET. SUITE 62 DUXBURY, MASSACHUSETTS 02332 PHONE: (781) 452-7121 FAX: (860) 264-1628 WEBSITE: www.phasezerodesign.com

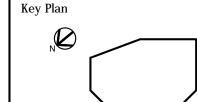


Consultant



Revisions

	01/24/14	Bid and Permit



LEGEND, NOTES AND SCHEDULES