

NOTE TO CONTRACTOR

ITEM(S) NOT SHOWN ON ANY OF THE RESPONSIBILITY SCHEDULES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

LOCAL AREA REQUIREMENTS									
YES	NO	1. SMOKE EVACUATION	YES	NO	5. SPECIAL CURB HEIGHT REQUIREMENTS				
<input type="checkbox"/>	<input checked="" type="checkbox"/>	2. CARBON DIOXIDE MONITORING	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6. FIVE MILE COASTAL PROXIMITY				
<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. HURRICANE ZONE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	7. OTHERS, I.E. METHANE, CARBON MONOXIDE, SOUND SENSITIVE, ETC. DESCRIPTION. . .				
<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. SEISMIC ZONE							

ABBREVIATIONS, RESPONSIBILITY SCHEDULES									
AC	HVAC EQUIPMENT SUPPLIER	GC	GENERAL CONTRACTOR						
AHJ	AUTHORITY HAVING JURISDICTION	LC	LANDLORD CONTRACTOR						
BAS	BUILDING AUTOMATION SYSTEM	LD	LIGHTING PACKAGE DISTRIBUTOR						
EC	ELECTRICAL CONTRACTOR	LL	LANDLORD						
FAC	FIRE ALARM CONTRACTOR	LSD&C	LIMITED STORE DESIGN & CONSTRUCTION						
		MC	MECHANICAL CONTRACTOR						

FAN POWERED VARIABLE AIR VOLUME (FPVAV) & VARIABLE AIR VOLUME (VAV) BOX RESPONSIBILITY SCHEDULE

ITEM	FURNISHED BY			INSTALLED OR PERFORMED BY			RE-USE EXISTING	N/A	REMARKS
	LSD&C	LANDLORD	CONTR.	LANDLORD	CONTR.	OTHER			
SERIES ARRANGEMENT FAN POWERED VAV BOX (WITH HEAT AND NO HEAT OPTIONS)			MC		MC				COORDINATE WITH LANDLORD FOR PURCHASE/INSTALLATION
NON-FAN POWERED VAV BOX								●	
FAN POWERED BOX ELECTRICAL DISCONNECT			MC			AC			COORDINATE WITH LANDLORD FOR PURCHASE/INSTALLATION
NON-FAN POWERED BOX ELECTRICAL DISCONNECT								●	
BAS CONTROLLER WITH INTEGRATED ACTUATOR								●	
SUPPLY AIR TEMPERATURE SENSOR	AC				MC				MONITOR ONLY
SPACE TEMPERATURE SENSORS	AC				MC				MONITOR ONLY
TERMINAL UNIT COMMISSIONING	AC					AC			CALL HVAC SUPPLIER
LANDLORD UNIT CONTROLLER			MC		MC				HIRE LANDLORD DESIGNATED CONTROLS CONTRACTOR
LANDLORD SPACE TEMPERATURE SENSOR/THERMOSTAT			MC		MC				HIRE LANDLORD DESIGNATED CONTROLS CONTRACTOR
ADDITIONAL LANDLORD CONTROL SYSTEM COMPONENTS			MC		MC				HIRE LANDLORD DESIGNATED CONTROLS CONTRACTOR

HVAC RESPONSIBILITY SCHEDULE

ITEM	FURNISHED BY			INSTALLED OR PERFORMED BY			RE-USE EXISTING	N/A	REMARKS
	LSD&C	LANDLORD	CONTR.	LANDLORD	CONTR.	OTHER			
ROOFING CUT & PATCH, INSULATED TOE KICK & CURB LEVELING.								●	
DUCT SMOKE DETECTOR								●	
SMOKE SYSTEM ACCESSORIES, ETC.								●	
DIFFUSERS AND GRILLES	LD				MC				
DIFFUSERS/GRILLES FIRE DAMPERS								●	
WALL FIRE DAMPERS								●	
COMBINATION FIRE/SMOKE DAMPERS								●	
LOW PRESSURE DUCTWORK			MC		MC				
RECTANGULAR TO ROUND DUCT ADAPTER			MC		MC				
HIGH/MEDIUM PRESSURE DUCTWORK			MC		MC				
DUCT SUPPORTS			MC		MC				
SEISMIC BRACING								●	
DUCT HEATER(S)								●	
UNIT HEATER(S)								●	
TOILET EXHAUST FAN(S) WITH TOGGLE DISCONNECT SWITCH	LD				MC				
TOILET EXHAUST DUCTWORK WALL OR ROOF CAP			MC		MC				
PIPING AND PIPING APPURTENANCES (CIRCUIT SETTERS, ETC.)								●	
BALANCE CONTRACTOR REPORT			GC						AABC OR NEBB CERTIFIED
AS-BUILT DRAWINGS			MC						
TEMPERATURE CONTROL SYSTEM COMPONENTS			MC		MC				HIRE LANDLORD DESIGNATED CONTROLS CONTRACTOR
TEMPERATURE CONTROL SYSTEM WIRE			MC		MC				HIRE LANDLORD DESIGNATED CONTROLS CONTRACTOR
YOUNG REGULATOR W/ BOWDEN CABLE			MC		MC				
LOCKING QUADRANT VOLUME DAMPER			MC		MC				
PNEUMATIC TUBING								●	
FIRE ALARM SHUTDOWN RELAY			FAC		FAC				
RELIEF AIR DAMPER AND ACTUATOR								●	
RELIEF AIR FAN OR RETURN AIR FAN								●	
SMOKE EVACUATION								●	
OUTSIDE AIR INTAKE HOOD/LOUVER WITH DAMPER								●	
OUTSIDE AIR INTAKE DAMPER ACTUATOR								●	
RELIEF AIR HOOD OR LOUVER WITH COUNTER-BALANCED BACKDRAFT DAMPER								●	
ECONOMIZER DAMPER								●	
ECONOMIZER DAMPER ACTUATOR								●	
OUTSIDE AIR DAMPER								●	
OUTSIDE AIR DAMPER ACTUATOR								●	

DESIGN WEATHER PARAMETERS

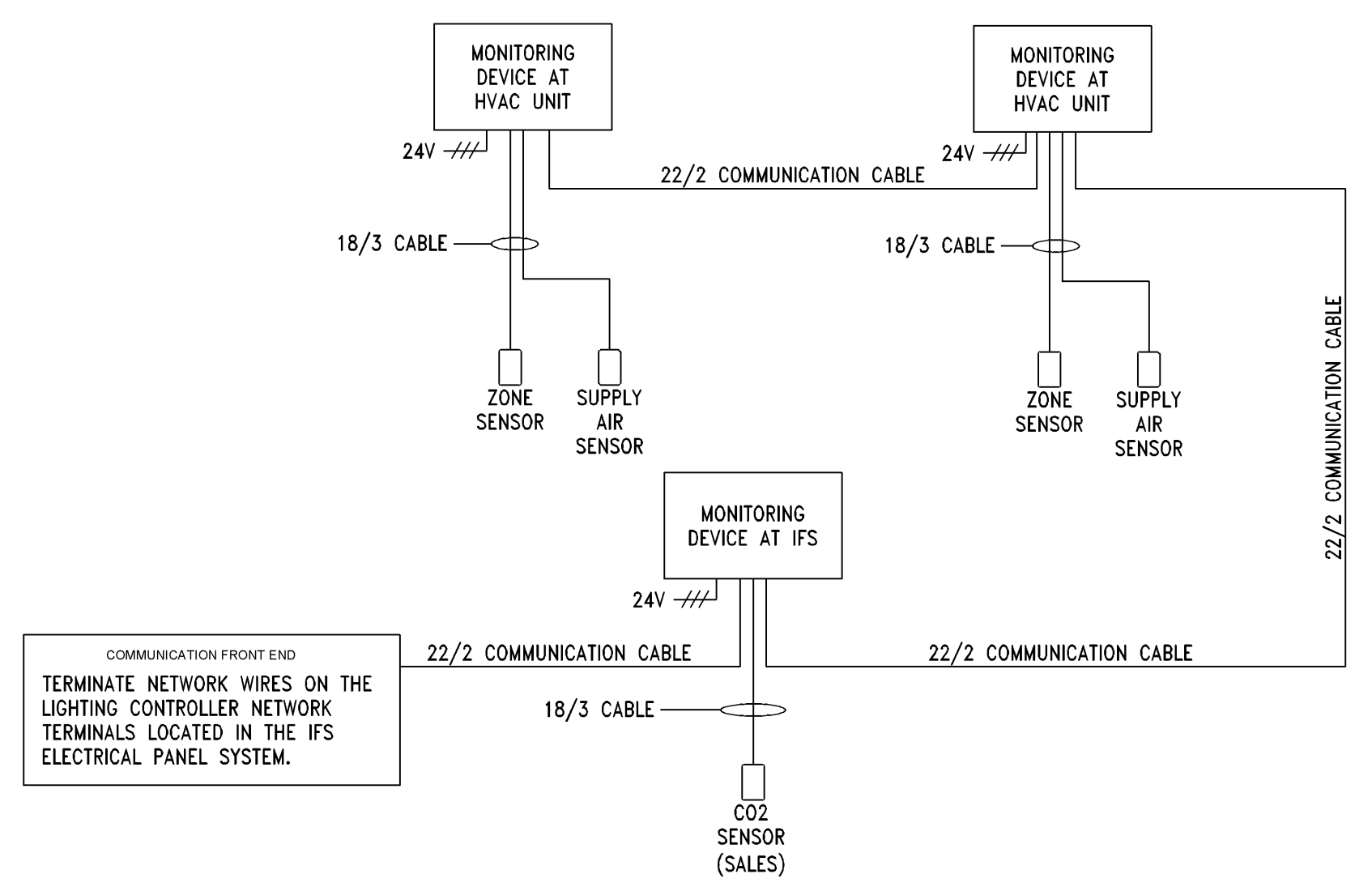
City Name	Lexington		
Location	Kentucky		
Latitude	38.0	Deg.	
Longitude	84.6	Deg.	
Elevation	988.0	ft	
Summer Design Dry-Bulb	91.0	°F	
Summer Coincident Wet-Bulb	74.0	°F	
Summer Daily Range	18.4	°F	
Winter Design Dry-Bulb	4.0	°F	
Winter Design Wet-Bulb	2.1	°F	
Atmospheric Cleanness Number	0.95		
Average Ground Reflectance	0.20		
Soil Conductivity	0.800	BTU/(hr-ft ² -°F)	
Local Time Zone (GMT +/- N hours)	6.0	hours	
Consider Daylight Savings Time	No		
Simulation Weather Data	none/N/A		
Current Data is	2001 ASHRAE Handbook		
Design Cooling Months	January to December		

HVAC LOAD CALCULATIONS

Air System Information			
Air System Name	Total Load	Number of zones	1
Equipment Class	UNDEF	Floor Area	4880.0 ft ²
Air System Type	VAV	Location	Lexington, Kentucky
Sizing Calculation Information			
Calculation Months	Jan to Dec	Zone CFM Sizing	Peak zone sensible load
Sizing Data	Calculated	Space CFM Sizing	Individual peak space loads
Central Cooling Coil Sizing Data			
Total coil load	114 Tons	Load occurs at	Jul 2000
Total coil load	156.4 MBH	OA DB / WB	82.4 / 71.6 °F
Sensible coil load	114.3 MBH	Entering DB / WB	75.5 / 63.8 °F
Coil CFM at Jul 2000	5939 CFM	Leaving DB / WB	57.0 / 55.9 °F
Max block CFM at Jul 2000	6026 CFM	Coil ADP	54.9 °F
Sum of peak zone CFM	6026 CFM	Bypass Factor	0.100
Sensible heat ratio	0.838	Resulting RH	53 %
RT/ton	429.3	Design supply temp.	57.0 °F
BTU/(hr-ft ²)	28.0	Zone T-delta Check	1.0/1 OK
Water flow @ 10.0 °F rise	27.30 gpm	Max zone temperature deviation	0.0 °F
Supply Fan Sizing Data			
Actual max CFM at Jul 2000	6026 CFM	Fan motor BHP	0.00 BHP
Standard CFM	5814 CFM	Fan motor kW	0.00 kW
Actual max CFM/RP	1.23 CFM/RP	Fan static	0.00 in wg
Outdoor Ventilation Air Data			
Design airflow CFM	0 CFM	CFM/person	0.00 CFM/person
CFM/RP	0.00 CFM/RP		

	DESIGN COOLING				DESIGN HEATING			
	COOLING DATA AT Jul 2000				HEATING DATA AT DES HTO			
	Details	Sensible (BTU/hr)	Latent (BTU/hr)		Details	Sensible (BTU/hr)	Latent (BTU/hr)	
ZONE LOADS								
Window & Skylight Solar Loads	0 ft ²	0	-	0 ft ²	-	-	-	-
Wall Transmission	936 ft ²	4785	-	936 ft ²	14100	-	-	-
Roof Transmission	0 ft ²	0	-	0 ft ²	0	-	-	-
Window Transmission	0 ft ²	0	-	0 ft ²	0	-	-	-
Skylight Transmission	0 ft ²	0	-	0 ft ²	0	-	-	-
Door Loads	0 ft ²	0	-	0 ft ²	0	-	-	-
Floor Transmission	0 ft ²	0	-	0 ft ²	0	-	-	-
Partitions	0 ft ²	0	-	0 ft ²	0	-	-	-
Ceiling	0 ft ²	0	-	0 ft ²	0	-	-	-
Overhead Lighting	4995 W	16329	-	0	0	-	-	-
Task Lighting	12141 W	37262	-	0	0	-	-	-
Electric Equipment	6900 W	22565	-	0	0	-	-	-
People	107	22477	21931	0	0	0	0	0
Infiltration	-	0	0	-	0	-	0	0
Miscellaneous	-	4300	-	0	0	-	0	0
Safety Factor	0%	0	0	25%	3525	0	-	-
>> Total Zone Loads	-	106740	21931	-	17625	0	-	-
Zone Conditioning	-	114346	21931	-	16903	0	-	-
Plenum Wall Load	0%	0	-	0	0	-	-	-
Plenum Roof Load	0%	0	-	0	0	-	-	-
Plenum Lighting Load	0%	0	-	0	0	-	-	-
Return Fan Load	5939 CFM	0	-	60 CFM	0	-	-	-
Ventilation Load	0 CFM	0	0	0 CFM	0	-	0	0
Supply Fan Load	5939 CFM	0	-	60 CFM	0	-	-	-
Space Fan Coil Fans	-	-	-	-	-	-	-	-
Duct Heat Gain / Loss	0%	0	-	0%	0	-	-	-
>> Total System Loads	-	114346	21931	-	16903	0	-	-
Central Cooling Coil	-	114346	22072	-	-	-	-	-
Zone Heating Unit Coils	-	0	-	-	-	-	-	-
>> Total Conditioning	-	114346	22072	-	16903	0	-	-
Key:	Positive values are ckg loads Negative values are hkg loads				Positive values are hkg loads Negative values are ckg loads			

MONITOR ONLY NETWORK WIRING AND SEQUENCE



- NOTES:
- (1) ALL WIRE SHALL BE 18 GAUGE UNLESS OTHERWISE INDICATED.
 - (2) NUMBER OF WIRES FURNISHED BY HVAC MANUFACTURER IS INDICATED BY NUMBER OF TICK MARKS ACROSS THE LINE.
 - (3) PURPLE 22/2 WIRE IS PROVIDED BY HVAC SUPPLIER AND IS PLENUM RATED.
- LSD&C HVAC VENDOR SHALL FURNISH AND/OR INSTALL ALL NECESSARY DEVICES TO EFFECTIVELY MONITOR THE LANDLORD CONTROLLED SYSTEM.

MONITOR ONLY RESPONSIBILITY SCHEDULE

ITEM	FURNISHED BY			INSTALLED OR PERFORMED BY			RE-USE EXISTING	N/A	REMARKS
	LSD&C	LANDLORD	CONTR.	LANDLORD	CONTR.	OTHER			
MONITOR ONLY DEVICES WITH ANALOG INPUTS AND COMMUNICATION CAPABILITY	AC				MC				
SPACE TEMPERATURE SENSOR	AC				MC				ONE PER UNIT
SUPPLY AIR TEMPERATURE SENSOR	AC				MC				REFER TO SHEET M02.01 FOR LOCATIONS AND QUANTITY
CONTROL TRANSFORMERS			MC		MC				ONE PER MONITORING DEVICE
CARBON DIOXIDE SENSOR	AC				MC				
COMMUNICATION/CONTROL WIRING			MC		MC				

NETWORK WIRING AND SEQUENCE

HVAC LOAD CALCULATIONS

NETWORK WIRING AND SEQUENCE

HVAC RESPONSIBILITY SCHEDULES