HVAC Design Checks- Airflow and Instrumentation Diagrams

	Drawing No: xxxx				
	ltem Description	Check OK	ed-OK/Not (,	Remarks
	ROOM DATA	UK	NOK	NA	
	Are all rooms/areas covered?				
2	Do room names and numbers match with architectural drawings?		; :		
3	Do the following room parameters match with HVAC Calculation Sheet?				
4	- Area				
5	-Volume		<u> </u>		
6	- Supply air		: (
	- Exhaust air		; !		
0 9	-Return air -ACH		<u>.</u>		
10	-Temp.				(©)
11	-RH		;		~~~
12	- Pressure		:		
13	- Grade/classification		; 		
14	- Leakage directions and quantities		ļ		<u> </u>
	EQUIPMENT				<u> </u>
	- AHU configuration (filters, sections, number of coils, etc.) correct?				7/
	- AHU instruments (FT, V, TT, PT, MT) correct?		 :		
3 17	- AHU capacity - matches with calculation sheet +20%?		; ;		2707
	-Test ports - numbers and locations?				
			 		. 2
	- Exhaust fan capacity correct?		ļ		70
	- Fan starter correct - VFD/DOL?		 		~~
	-CAV capacity correct? -VAV capacity correct?		; ; ;		
	- vav capacity confect:		 		~~
	AIR QUANTITIES			~ (
23	- Main supply air quantity correct?				Ø
24	- Main return air quantity correct?			$\sim $	7
	- Main fresh air quantity correct?				
	- Main exhaust air quantity correct?		ļ	\mathbb{C}^{2}	
27	- Supply, return, fresh and exhaust air quantities match?		6		
	DIFFUSERS AND GRILLES			<i>U)</i>	
	- Number of supply air diffusers /HEPA filters correct?		~~~	7	
29	- Type and size of supply air diffusers /HEPA filters correct?				
30	- Number of return air grilles correct?	••••••		• • • • • • • • • • • • • • • • • • • •	
31	- Type and size of return air grilles correct?	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u> </u>		
32	- Number of exhaust air diffusers correct?		\sim		
33	- Type of exhaust air diffusers correct?		<u> </u>		
	AIR DISTRIBUTION	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	:		
accommonación (- Supply air distribution match the zoning?		ļ		
	Supply all distribution materialities suring.))	<u>.</u>	• • • • • • • • • • • • • • • • • • • •	
	FIRE DAMPERS, FIRE-RATED DUCT & SMOKE DETECTORS	<u> </u>			
	- All fire dampers included?		·		
	- Fire rated duct shown (if applicable)?)	<u> </u>		
37	- Smoke detector included in the right location?		ļ		
	VOLUME CONTROL / MOTORIZED / NRD DAMBERS		!		
	-VOLUME CONTROL / MOTORIZED / NRD DAMPERS - VCDs included at the right locations?				
	- NRDs included at the right locations?		 !		
	Motorized dampers included where applicable?		<u> </u>		
	- Motorized dampers included where applicable:		}		
	TEST PORTS				
41	- Duct test ports included at all relevant locations?				
	NAME				
42	PIPING - CHW: All valves, vents, drains, PI, TI, flexible connections included?		ļ		
42 12	- CHW: All valves, vents, drains, PI, TI, flexible connections included? - HW: All valves, vents, drains, PI, TI, flexible connections included?		<u>;</u>		
	- Drain piping shown		 		
	. r.r 9		<u> </u>		
	AUTOMATION				
~~~~~~~~~	- CHW: TT-TCV link shown		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	- HW: TT-TCV link shown		į		
	- Supply duct: PT-VFD link shown				
	- Supply duct: TT included		ļ		
	- Return air: TT included		<u> </u>		
	- Return air: MT included - Fan: FT sensor included		; ;		<b>}</b>
	- Fan: F1 sensor included - Fan: Vibration sensor included		<u>;</u>		
	-Filter: PDIS included		!!		
					£

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Drawing No: xxxx

	Item Description	Checked-OK/Not OK/NA			Remarks
		OK	NOK	NA	
	ROOM DATA				
54	- Room PDT included		:		
55	- Room TT (EMS) included		:		
56	- Room MT (EMS) included				
i	INTERLOCKS				
•	- All relevant interlocks marked on the drawing?		<u> </u>	<b></b>	
58	- All interlocks listed near the title block?	·····	; 	<u></u>	
			<u>.</u>	<u> </u>	
	LEGEND				
59	- Legend correct and complete?		<u> </u>	ļ	
			: 	<u> </u>	
	TAG NOS		<u>.</u>		
60	- Tag. nos correct?		: 	<b></b>	
<u></u>			<u>.</u>	} 	
	NOTES				
61	- Relevant notes included?		; ; ,		
			: : 	<u> </u>	
	TITLE BLOCK			<u>}</u>	
	- Is the drawing title correct?		: !	<u> </u>	
63	- Is the revision history updated?		į	3	