



Comfort. Under control.

07-11 CULVERS - ELLISVILE, MO

CheckList Information

Name : PLAN REVIEW **Status :** NotSubmitted
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB

CheckList Item Details

Processor Name:	Brian
We have the latest set of drawings and are not working off the Bid Set:	Yes
Scheduled AHU/RTU airflow is equivalent to 350 CFM/ton to 400 CFM/ton	RTU1 = 343 CFM/ton RTU2 = 312 CFM/ton
Air device totals equal the scheduled airflow of equipment	PRV1 Grille Design Totals = 300 CFM. Unit Design Total = 375 CFM
All air devices have an airflow specified	Yes
Less than 25% ratio of OA to SA for all RTU's/AHU's	RTU1 = 29.2% RTU2 = 27.3%
Net space airflow is between 0 to 500 CFM positive	Net Airflow = -75
Scheduled Hood airflow match scheduled EF and MAU airflows	Yes
Address correct?	Yes
Are the units typical of the prototype? (ie not AHUs, HPs, WSHPs,...)	Yes
If there are hydroincs what type of valves are there? (Auto flow or Manual; Ask GC/Get Submittal)	N/A
Engineer is not required to witness and stamp smoke capture test? (Mecklenburg County, NC only)	Yes
Smoke detector testing is not required? (Arizona; Orlando, FL metro area only)	Yes
Inspector is not required to witness hood readings? (Palm Beach County, FL)	Yes



Notes/Comments :



National TAB

Project: 07-11 CULVERS - ELLISVILLE, MO

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU1

AREA:DINING

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	
Model Num	LGH-210-H4B	LGH-210-H4B
Type	-	
Configuration	-	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num Final Filter 1	-	
Final Filter Size 1	-	
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	3	
Rated Voltage	208/230	
Rated Amperage	-	

Drive Data		
	Design	Actual
Motor Sheave Size	-	
Motor Bore Size	-	
Motor Sheave SetPt	-	
Fan Sheave Size	-	
Fan Sheave Bore	-	
Belt CL Distance	-	
Num of Belts	-	
Belt Size	-	
Belt Alignment	-	

Test Data		
	Design	Actual
SF CFM	6000	
SF RPM	-	
RA CFM	4250	
OA CFM	1750	
RL Voltage	-	
RL Amperage	-	
SF Rotation	-	
RA Damper Position	-	
Min OA Damper Position	-	
Min OA Damper Type	-	
OA Enthalpy Setpt	-	
Brake Horse Power	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	-	
Fan Total SP	-	

General		
	Design	Actual
Fan Rotation Correct	-	
Unit Filters Clean	-	
Condensate Drain Installed	-	

Completed By: Brian Turnbough

Notes:



National TAB

Project:07-11 CULVERS - ELLISVILLE, MO

AHU/RTU



Comfort. Under control.

Diffuser Supply (GRD)

RTU1/DINING

Asset	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)
SGRD1	Dining	SD1	8"	150			
	FINAL CFM	% to design					
		-					
SGRD2	Hall	SD1	12"	450			
	FINAL CFM	% to design					
		-					
SGRD3	Customer Order Area	SD1	12"	450			
	FINAL CFM	% to design					
		-					
SGRD4	Dining	SD1	8"	150			
	FINAL CFM	% to design					
		-					
SGRD5	Dining	SD4	8"	150			
	FINAL CFM	% to design					
		-					
SGRD6	Men	SD4	8"	150			
	FINAL CFM	% to design					
		-					
SGRD7	Dining	SD4	8"	150			
	FINAL CFM	% to design					
		-					
SGRD8	Dining	SD1	8"	150			
	FINAL CFM	% to design					
		-					
SGRD9	Dining	SD1	8"	150			
	FINAL CFM	% to design					
		-					
SGRD10	Dining	SD1	8"	150			
	FINAL CFM	% to design					
		-					
SGRD11	Dining	SD1	8"	150			
	FINAL CFM	% to design					
		-					



			-				
SGRD12	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)
	Dining	SD1	8"	150			
	FINAL CFM	% to design					
			-				
SGRD13	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)
	Dining	SD1	8"	150			
	FINAL CFM	% to design					
			-				
SGRD14	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)
	Dining	SD1	8"	150			
	FINAL CFM	% to design					
			-				
SGRD15	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)
	Dining	SD1	8"	150			
	FINAL CFM	% to design					
			-				
SGRD16	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)
	Dining	SD1	8"	150			
	FINAL CFM	% to design					
			-				
SGRD17	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)
	Dining	SD1	8"	150			
	FINAL CFM	% to design					
			-				
SGRD18	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)
	Dining	SD1	8"	150			
	FINAL CFM	% to design					
			-				
SGRD19	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)
	Dining	SD1	8"	150			
	FINAL CFM	% to design					
			-				
SGRD20	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)
	Drinks & Condiments	SD1	10"	300			
	FINAL CFM	% to design					
			-				
SGRD21	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)
	Entry	SD1	8"	150			
	FINAL CFM	% to design					
			-				
SGRD22	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)
	Customer Service	SD1	10"	350			
	FINAL CFM	% to design					
			-				
SGRD23	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)
	Customer Service	SD1	10"	350			
	FINAL CFM	% to design					
			-				
SGRD24	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)
	Customer Service	SD1	10"	350			
	FINAL CFM	% to design					
			-				
SGRD25	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)
	Customer Service	SD1	10"	350			



	FINAL CFM	% to design					
		-					
SGRD26	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)
	Drive Thru	SD1	12"	500			
	FINAL CFM	% to design					
		-					
SGRD27	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)
	Office	SD1	8"	200			
	FINAL CFM	% to design					
		-					

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Asset	Notes
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National TAB

Project: 07-11 CULVERS - ELLISVILLE, MO

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU2

AREA:KITCHEN

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	
Model Num	LGH-240-H4B	LGH-240-H4B
Type	-	
Configuration	-	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num Final Filter 1	-	
Final Filter Size 1	-	
Num Final Filter 2	-	
Final Filter Size 2	-	

Test Data		
	Design	Actual
SF CFM	6225	
SF RPM	-	
RA CFM	4525	
OA CFM	1700	
RL Voltage	-	
RL Amperage	-	
SF Rotation	-	
RA Damper Position	-	
Min OA Damper Position	-	
Min OA Damper Type	-	
OA Enthalpy Setpt	-	
Brake Horse Power	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	3	
Rated Voltage	208/230	
Rated Amperage	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	-	
Fan Total SP	-	

Drive Data		
	Design	Actual
Motor Sheave Size	-	
Motor Bore Size	-	
Motor Sheave SetPt	-	
Fan Sheave Size	-	
Fan Sheave Bore	-	
Belt CL Distance	-	
Num of Belts	-	
Belt Size	-	
Belt Alignment	-	

General		
	Design	Actual
Fan Rotation Correct	-	
Unit Filters Clean	-	
Condensate Drain Installed	-	

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Notes:



National TAB

Project:07-11 CULVERS - ELLISVILLE, MO

AHU/RTU



Comfort. Under control.

Diffuser Supply (GRD)

RTU2/KITCHEN

Asset	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)
SGRD1	Cook Line	SD5	10	200			
	FINAL CFM	% to design					
		-					
SGRD2	Cook Line	SD5	12	375			
	FINAL CFM	% to design					
		-					
SGRD3	Food Prep	SD5	12	350			
	FINAL CFM	% to design					
		-					
SGRD4	Food Prep	SD5	12	400			
	FINAL CFM	% to design					
		-					
SGRD5	Food Prep	SD5	12	400			
	FINAL CFM	% to design					
		-					
SGRD6	Cook Line	SD5	10	250			
	FINAL CFM	% to design					
		-					
SGRD7	Cook Line	SD5	10	275			
	FINAL CFM	% to design					
		-					
SGRD8	Sundae Service	SD1	12	600			
	FINAL CFM	% to design					
		-					
SGRD9	Sundae Service	SD1	12	600			
	FINAL CFM	% to design					
		-					
SGRD10	Utility Room	SD1	12	600			
	FINAL CFM	% to design					
		-					
SGRD11	Dry Goods	SD1	12	600			
	FINAL CFM	% to design					
		-					



		-					
SGRD12	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)
	Employee Restroom	SD4	6	75			
	FINAL CFM	% to design					
		-					
SGRD13	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)
	Dish Washing	SD5	12	350			
	FINAL CFM	% to design					
		-					
SGRD14	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)
	Dish Washing	SD5	12	350			
	FINAL CFM	% to design					
		-					
SGRD15	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)
	Dry Goods	SD1	12	600			
	FINAL CFM	% to design					
		-					
SGRD16	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)
	Dry Goods	SD1	10	200			
	FINAL CFM	% to design					
		-					

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Asset	Notes
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National TAB

Project: 07-11 CULVERS - ELLISVILLE, MO
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-A1

AREA:MOP ROOM

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XCR-B80	XCR-B80
Serial Num	-	
Type	Celing	
Configuration	Vertical	

Test Data		
	Design	Actual
CFM	-	
Fan RPM	885	
Fan Rotation	-	
Motor RPM	-	
System SetPt	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	0.125"	
Fan Inlet SP	-	
Fan Discharge SP	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	900	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
Service Factor	-	

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Notes:

Asset	Notes



National TAB

Project: 07-11 CULVERS - ELLISVILLE, MO

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-A1

AREA:EMPLOYEE RESTROOM

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XCR-B80	XCR-B80
Serial Num	-	
Type	Ceiling	
Configuration	Vertical	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	900	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	Actual
CFM	75	
Fan RPM	885	
Fan Rotation	-	
Motor RPM	-	
System SetPt	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	0.125"	
Fan Inlet SP	-	
Fan Discharge SP	-	

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Notes:

Asset	Notes



National TAB

Project: 07-11 CULVERS - ELLISVILLE, MO
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: PRV1

AREA: RESTROOM

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XRED-095-D	XRED-095-D
Serial Num	-	
Type	Downblast	
Configuration	Horizontal	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	0.0667	
Motor Rpm	1550	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	Actual
CFM	-	
Fan RPM	1479	
Fan Rotation	-	
Motor RPM	-	
System SetPt	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	0.5"	
Fan Inlet SP	-	
Fan Discharge SP	-	

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Notes:



National TAB

Project:07-11 CULVERS - ELLISVILLE, MO

FAN - Exhaust



Comfort. Under control.

Diffuser Ret/Exh (GRD)

PRV1/RESTROOM

Asset	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)
EGRD1	Women RR	EG1	10x10	150			
	FINAL CFM	% to design					
		-					
EGRD2	Men RR	EG1	10x10	150			
	FINAL CFM	% to design					
		-					

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Asset	Notes



National TAB

Project: 07-11 CULVERS - ELLISVILLE, MO
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: PRV2

AREA:HD1 GRILL

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XRUB-160XP-15	XRUB-160XP-15
Serial Num	-	
Type	Upblast	
Configuration	Vertical	

Test Data		
	Design	Actual
CFM	1500	
Fan RPM	2411	
Fan Rotation	-	
Motor RPM	-	
RL Voltage	-	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	2337	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	1.5	
Motor Rpm	1725	
Phase	3	
Voltage (rated)	208	
Amperage (rated)	-	
Service Factor	-	

Drive Data		
	Design	Actual
Motor Sheave Size	-	
Motor Bore Size	-	
Motor Sheave SetPt	-	
Fan Sheave Size	-	
Fan Sheave Bore	-	
Belt CL Distance	-	
Num of Belts	-	
Belt Size	-	

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Notes:

Asset	Notes



National TAB

Project: 07-11 CULVERS - ELLISVILLE, MO
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: PRV3

AREA:HD2 FRYER

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XRUB-140-7	XRUB-140-7
Serial Num	-	
Type	Ceiling	
Configuration	Vertical	

Test Data		
	Design	Actual
CFM	1500	
Fan RPM	1377	
Fan Rotation	-	
Motor RPM	-	
RL Voltage	-	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	1	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	0.5	
Motor Rpm	1725	
Phase	3	
Voltage (rated)	208	
Amperage (rated)	-	
Service Factor	-	

Drive Data		
	Design	Actual
Motor Sheave Size	-	
Motor Bore Size	-	
Motor Sheave SetPt	-	
Fan Sheave Size	-	
Fan Sheave Bore	-	
Belt CL Distance	-	
Num of Belts	-	
Belt Size	-	

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Notes:

Asset	Notes



National TAB

Project: 07-11 CULVERS - ELLISVILLE, MO

System/Unit: Kitchen Hood Type I



Comfort. Under control.

Asset: HD1

AREA:Griddle

Unit Data		
	Design	Actual
MFG	Accurex	Accurex
Model Num	XGEP-64-S	XGEP-64-S
Job / Serial Num	-	
Type	Type I Low Proximity	
Hood length	64"	
Hood Width	23"	

Performance Data		
	Design	Actual
Smoke Generation Type	-	
Hood Capture %	-	
End Panels Installed (Y/N)	-	

General		
	Design	Actual
Third Party Witness	-	
Third Party Company	-	
Tech Witness	-	

Test Data Exhaust		
	Design	Actual
Filter Type	Grease Grabber	
Filter Size 1	16x16	
Filter Qty 1	4	
Filter AK factor size 1	1.53	
Filter Total AK Area	6.12	
Filter1 FPM	-	
Filter2 FPM	-	
Filter3 FPM	-	
Filter4 FPM	-	
Filter Ave FPM(corr)	-	
CFM	-	

Cooking Equipment		
	Design	Actual
Item 1	-	
Item 2	-	

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Notes:

Asset	Notes



National TAB

Project: 07-11 CULVERS - ELLISVILLE, MO

System/Unit: Kitchen Hood Type I



Comfort. Under control.

Asset: HD2

AREA:Fryer

Unit Data		
	Design	Actual
MFG	Accurex	Accurex
Model Num	XXEP-83-S	XXEP-83-S
Job / Serial Num	-	
Type	Type I Low Proximity	
Hood length	83"	
Hood Width	23"	

Performance Data		
	Design	Actual
Smoke Generation Type	-	
Hood Capture %	-	
End Panels Installed (Y/N)	-	

General		
	Design	Actual
Third Party Witness	-	
Third Party Company	-	
Tech Witness	-	

Test Data Exhaust		
	Design	Actual
Filter Type	X-Tractor Stainless Steel	
Filter Size 1	16x16	
Filter Qty 1	5	
Filter AK factor size 1	1.53	
Filter Total AK Area	7.65	
Filter1 FPM	-	
Filter2 FPM	-	
Filter3 FPM	-	
Filter4 FPM	-	
Filter5 FPM	-	
Filter Ave FPM(corr)	-	
CFM	-	

Cooking Equipment		
	Design	Actual
Item 1	-	
Item 2	-	

Completed By: Brian Turnbough

Notes:

Asset	Notes

