National TAB

Project: River Valley Middle School (Jeffersonville, IN)

System/Unit: AHU/RTU

Asset: RTU-1 AREA:OFFICE/CLASSROOMS

Unit Data		
	Design	**Actual**
MFG	NA	NA
Serial Num	-	
Model Num	NA	NA
Configuration	-	
OA Filter Size 1	-	
Num OA Filters 2	-	
OA Filter Size 2	-	
Num PreFilter 1	-	
PreFilter Size 1	-	
Num PreFilter 2	-	
PreFilter Size 2	-	
Num Final Filter 1	-	

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	-	
Rated Voltage	-	
Rated Amperage	-	
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	-	

Test Data		
	Design	**Actual**
SF CFM	-	
SF RPM	-	
RA CFM	-	
OA CFM	-	
RL Voltage	-	
RL Amperage	-	
SF Motor Freq(HZ)	-	
SF System SetPt	-	
Min OA Damper Position	-	
Brake Horse Power	-	

Performance Data		
	Design	**Actual**
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	-	
Fan Total SP	-	
Pre-Filter P.D.	-	
Cooling Coil P.D.	-	

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

AHU/RTU

VAV - Single Duct

RTU-1/OFFICE/CLASSROOMS

Asset											
Asset Name	MFG	Model Num	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
VAV-01	NA	NA	REHEAT	14	1460	1516	500	508	1100	1111	2707
VAV-02	NA	NA	REHEAT	14	1460	1485	500	511	1100	1122	2375
VAV-03	NA	NA	REHEAT	14	1460	1430	500	511	1100	1117	2249
VAV-04	NA	NA	REHEAT	10	850		300		700		
VAV-05	NA	NA	REHEAT	10	945		350		750		
VAV-06	NA	NA	REHEAT	12	900	906	350	355	750	741	2134
VAV-07	NA	NA	REHEAT	8	800	766	275	278	550	562	783
VAV-08	NA	NA	REHEAT	6	200	205	75	77	150	158	524
VAV-09	NA	NA	REHEAT	6	400	401	150	152	300	308	517
VAV-10	NA	NA	REHEAT	6	250	255	100	108	200	205	445
VAV-11	NA	NA	REHEAT	10	800	817	300	307	600	612	1474
VAV-12	NA	NA	REHEAT	8	600	607	200	205	450	458	878

Diffuser Supply (GRD)

VAV-01/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1	SCIENCE	CD1	12	365	458	388	106.3
1-2	SCEINCE	CD1	12	365	55	372	101.9
1-3	SCIENCE	CD1	12	365	495	365	100.0
1-4	SCIENCE	CD1	12	365	507	391	107.1
Total				1460	1515	1516	103.84%

VAV-10/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
10-1		CD1	10	250	207	255	102.0
Total				250	207	255	102%

VAV-11/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
11-1		CD1	12	400	207	429	107.3
11-2		CD1	12	400	496	388	97.0
Total				800	703	817	102.12%

VAV-12/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
12-1		CD1	8	200	255	205	102.5
12-2		CD1	8	200	188	208	104.0
12-3		CD1	8	200	45	194	97.0
Total				600	488	607	101.17%

VAV-02/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
2-1		CD1	12	365	442	382	104.7
2-2		CD1	12	365	422	375	102.7
2-3		CD1	12	365	375	362	99.2
2-4		CD1	12	365	75	366	100.3
Total				1460	1314	1485	101.71%

VAV-03/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3-1	Science	CD1	12	365	265	347	95.1
3-2	Science	CD1	12	365	288	355	97.3
3-3	Science	CD1	12	365	297	368	100.8
3-4	Science	CD1	12	365	292	360	98.6
Total				1460	1142	1430	97.95%

VAV-04/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
4-1		CD1	10	300			-
4-2		CD1	10	300			-
4-3		CD1	10	250			-
Total				850	0	0	0%

VAV-05/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
5-1		CD1	10	315			-
5-2		CD1	10	315			-
5-3		CD1	10	315			-
Total				945	0	0	0%

VAV-06/HALL

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
6-1	HALL	CD1	10	300	187	305	101.7
6-2	HALL	CD1	10	300	288	312	104.0
6-3	HALL	CD1	10	300	250	289	96.3
Total				900	725	906	100.67%

VAV-07/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
7-1	OFFICE	CD1	8	250	77	229	91.6
7-2	OFFICE	CD1	6	100	105	103	103.0
7-3	HALL	CD1	6	100	52	102	102.0
7-4	OFFICE	CD1	6	100	22	97	97.0
7-5	OFFICE	CD1	6	100	117	92	92.0
7-6	HALL	CD1	6	100	62	95	95.0
7-7	RR	CD1	6	50	31	48	96.0
Total				800	466	766	95.75%

VAV-08/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
8-1		CD1	8	200	215	205	102.5
Total				200	215	205	102.5%

VAV-09/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
9-1		CD1	12	400	379	401	100.3
Total				400	379	401	100.25%

Completed By: Nick Payne on 02/26/2024

Asset	Notes	Date	Written By
VAV-04	Missing diffuser #3, no ceiling.	02/27/2024	Nick Payne
VAV-05	No ceiling, no diffusers.	02/27/2024	Nick Payne

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

EXISTING SUPPLY/

Asset									
Asset Name	**Type**	**Inlet Size**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Design Heat CFM**	**Heat CFM**	**Ak (max)**
CVB-01	REHEAT	6	250	167	250	167	250	167	595

Completed By: Nick Payne on 02/27/2024

Asset	Notes	Date	Written By
CVB-01	Damper 100% open.	02/27/2024	Nick Payne

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

RTU-1/OFFICE/CLASSROOMS

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
CVB-01	REHEAT	6	250	167	250	167	250	167	595

Completed By: Nick Payne on 02/27/2024

Asset	Notes	Date	Written By
CVB-01	Damper 100% open.	02/27/2024	Nick Payne

Diffuser Supply (GRD)

CVB-01/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
C1-1		CD-1	10	250	167	167	66.8
Total				250	167	167	66.8%

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

EXISTING SUPPLY/

Asset									
Asset Name	**Type**	**Inlet Size**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Design Heat CFM**	**Heat CFM**	**Ak (max)**
CVB-02	REHEAT	6	250	131	250	131	250	131	567

Completed By: Nick Payne on 02/27/2024

Asset	Notes	Date	Written By
CVB-02	Damper 100% open.	02/27/2024	Nick Payne

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

RTU-1/OFFICE/CLASSROOMS

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
CVB-02	REHEAT	6	250	131	250	131	250	131	567

Completed By: Nick Payne on 02/27/2024

Asset	Notes	Date	Written By
CVB-02	Damper 100% open.	02/27/2024	Nick Payne

Diffuser Supply (GRD)

CVB-02/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
C2-1		CD-1	10	250	131		-
Total				250	131	0	0%

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

EXISTING SUPPLY/

Asset									
Asset Name	**Type**	**Inlet Size**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Design Heat CFM**	**Heat CFM**	**Ak (max)**
VAV-10	REHEAT	6	250	255	100	108	200	205	445

Completed By: Nick Payne on 02/26/2024

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

RTU-1/OFFICE/CLASSROOMS

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
VAV-10	REHEAT	6	250	255	100	108	200	205	445

Completed By: Nick Payne on 02/26/2024

Diffuser Supply (GRD)

VAV-10/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
10-1		CD1	10	250	207	255	102.0
Total				250	207	255	102%

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

EXISTING SUPPLY/

Asset									
Asset Name	**Type**	**Inlet Size**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Design Heat CFM**	**Heat CFM**	**Ak (max)**
VAV-11	REHEAT	10	800	817	300	307	600	612	1474

Completed By: Nick Payne on 02/26/2024

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

RTU-1/OFFICE/CLASSROOMS

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
VAV-11	REHEAT	10	800	817	300	307	600	612	1474

Completed By: Nick Payne on 02/26/2024

Diffuser Supply (GRD)

VAV-11/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
11-1		CD1	12	400	207	429	107.3
11-2		CD1	12	400	496	388	97.0
Total				800	703	817	102.12%

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

EXISTING SUPPLY/

Asset									
Asset Name	**Type**	**Inlet Size**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Design Heat CFM**	**Heat CFM**	**Ak (max)**
VAV-12	REHEAT	8	600	607	200	205	450	458	878

Completed By: Nick Payne on 02/26/2024

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

RTU-1/OFFICE/CLASSROOMS

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
VAV-12	REHEAT	8	600	607	200	205	450	458	878

Completed By: Nick Payne on 02/26/2024

Diffuser Supply (GRD)

VAV-12/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
12-1		CD1	8	200	255	205	102.5
12-2		CD1	8	200	188	208	104.0
12-3		CD1	8	200	45	194	97.0
Total				600	488	607	101.17%

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

EXISTING SUPPLY/

Asset									
Asset Name	**Type**	**Inlet Size**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Design Heat CFM**	**Heat CFM**	**Ak (max)**
VAV-01	REHEAT	14	1460	1516	500	508	1100	1111	2707

Completed By: Nick Payne on 02/27/2024

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

RTU-1/OFFICE/CLASSROOMS

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
VAV-01	REHEAT	14	1460	1516	500	508	1100	1111	2707

Completed By: Nick Payne on 02/27/2024

Diffuser Supply (GRD)

VAV-01/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1	SCIENCE	CD1	12	365	458	388	106.3
1-2	SCEINCE	CD1	12	365	55	372	101.9
1-3	SCIENCE	CD1	12	365	495	365	100.0
1-4	SCIENCE	CD1	12	365	507	391	107.1
Total				1460	1515	1516	103.84%

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

EXISTING SUPPLY/

Asset									
Asset Name	**Type**	**Inlet Size**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Design Heat CFM**	**Heat CFM**	**Ak (max)**
VAV-02	REHEAT	14	1460	1485	500	511	1100	1122	2375

Completed By: Nick Payne on 02/26/2024

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

RTU-1/OFFICE/CLASSROOMS

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
VAV-02	REHEAT	14	1460	1485	500	511	1100	1122	2375

Completed By: Nick Payne on 02/26/2024

Diffuser Supply (GRD)

VAV-02/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-1		CD1	12	365	442	382	104.7
2-2		CD1	12	365	422	375	102.7
2-3		CD1	12	365	375	362	99.2
2-4		CD1	12	365	75	366	100.3
Total				1460	1314	1485	101.71%

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

EXISTING SUPPLY/

Asset									
Asset Name	**Type**	**Inlet Size**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Design Heat CFM**	**Heat CFM**	**Ak (max)**
VAV-03	REHEAT	14	1460	1430	500	511	1100	1117	2249

Completed By: Nick Payne on 02/26/2024

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

RTU-1/OFFICE/CLASSROOMS

Asset										
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
VAV-03	REHEAT	14	1460	1430	500	511	1100	1117	2249

Completed By: Nick Payne on 02/26/2024

Diffuser Supply (GRD)

VAV-03/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3-1	Science	CD1	12	365	265	347	95.1
3-2	Science	CD1	12	365	288	355	97.3
3-3	Science	CD1	12	365	297	368	100.8
3-4	Science	CD1	12	365	292	360	98.6
Total				1460	1142	1430	97.95%

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

EXISTING SUPPLY/

Asset									
Asset Name	**Type**	**Inlet Size**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Design Heat CFM**	**Heat CFM**	**Ak (max)**
VAV-04	REHEAT	10	850		300		700		

Completed By: Nick Payne on 02/27/2024

Asset	Notes	Date	Written By
VAV-04	Missing diffuser #3, no ceiling.	02/27/2024	Nick Payne

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

RTU-1/OFFICE/CLASSROOMS

Asset										
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
VAV-04	REHEAT	10	850		300		700		

Completed By: Nick Payne on 02/27/2024

Asset	Notes	Date	Written By
VAV-04	Missing diffuser #3, no ceiling.	02/27/2024	Nick Payne

Diffuser Supply (GRD)

VAV-04/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
4-1		CD1	10	300			-
4-2		CD1	10	300			-
4-3		CD1	10	250			-
Total				850	0	0	0%

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

EXISTING SUPPLY/

Asset									
Asset Name	**Type**	**Inlet Size**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Design Heat CFM**	**Heat CFM**	**Ak (max)**
VAV-05	REHEAT	10	945		350		750		

Completed By: Nick Payne on 02/27/2024

Asset	Notes	Date	Written By
VAV-05	No ceiling, no diffusers.	02/27/2024	Nick Payne

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

RTU-1/OFFICE/CLASSROOMS

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
VAV-05	REHEAT	10	945		350		750		

Completed By: Nick Payne on 02/27/2024

Asset	Notes	Date	Written By
VAV-05	No ceiling, no diffusers.	02/27/2024	Nick Payne

Diffuser Supply (GRD)

VAV-05/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
5-1		CD1	10	315			-
5-2		CD1	10	315			-
5-3		CD1	10	315			-
Total				945	0	0	0%

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

EXISTING SUPPLY/

Asset									
Asset Name	**Type**	**Inlet Size**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Design Heat CFM**	**Heat CFM**	**Ak (max)**
VAV-06	REHEAT	12	900	906	350	355	750	741	2134

Completed By: Nick Payne on 02/27/2024

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

RTU-1/OFFICE/CLASSROOMS

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
VAV-06	REHEAT	12	900	906	350	355	750	741	2134

Completed By: Nick Payne on 02/27/2024

Diffuser Supply (GRD)

VAV-06/HALL

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
6-1	HALL	CD1	10	300	187	305	101.7
6-2	HALL	CD1	10	300	288	312	104.0
6-3	HALL	CD1	10	300	250	289	96.3
Total				900	725	906	100.67%

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

EXISTING SUPPLY/

Asset									
Asset Name	**Type**	**Inlet Size**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Design Heat CFM**	**Heat CFM**	**Ak (max)**
VAV-07	REHEAT	8	800	766	275	278	550	562	783

Completed By: Nick Payne on 02/27/2024

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

RTU-1/OFFICE/CLASSROOMS

Asset										
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
VAV-07	REHEAT	8	800	766	275	278	550	562	783

Completed By: Nick Payne on 02/27/2024

Diffuser Supply (GRD)

VAV-07/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
7-1	OFFICE	CD1	8	250	77	229	91.6
7-2	OFFICE	CD1	6	100	105	103	103.0
7-3	HALL	CD1	6	100	52	102	102.0
7-4	OFFICE	CD1	6	100	22	97	97.0
7-5	OFFICE	CD1	6	100	117	92	92.0
7-6	HALL	CD1	6	100	62	95	95.0
7-7	RR	CD1	6	50	31	48	96.0
Total				800	466	766	95.75%

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

EXISTING SUPPLY/

Asset									
Asset Name	**Type**	**Inlet Size**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Design Heat CFM**	**Heat CFM**	**Ak (max)**
VAV-08	REHEAT	6	200	205	75	77	150	158	524

Completed By: Nick Payne on 02/27/2024

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

RTU-1/OFFICE/CLASSROOMS

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
VAV-08	REHEAT	6	200	205	75	77	150	158	524

Completed By: Nick Payne on 02/27/2024

Diffuser Supply (GRD)

VAV-08/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
8-1		CD1	8	200	215	205	102.5
Total				200	215	205	102.5%

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

EXISTING SUPPLY/

Asset									
Asset Name	**Type**	**Inlet Size**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Design Heat CFM**	**Heat CFM**	**Ak (max)**
VAV-09	REHEAT	6	400	401	150	152	300	308	517

Completed By: Nick Payne on 02/27/2024

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

VAV - Single Duct

RTU-1/OFFICE/CLASSROOMS

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
VAV-09	REHEAT	6	400	401	150	152	300	308	517

Completed By: Nick Payne on 02/27/2024

Diffuser Supply (GRD)

VAV-09/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
9-1		CD1	12	400	379	401	100.3
Total				400	379	401	100.25%

Diffuser Supply (GRD)

VAV-01/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
1-1	SCIENCE	CD1	12	365	458	388	106.3
1-2	SCEINCE	CD1	12	365	55	372	101.9
1-3	SCIENCE	CD1	12	365	495	365	100.0
1-4	SCIENCE	CD1	12	365	507	391	107.1
Total				1460	1515	1516	103.84%

VAV-10/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
10-1		CD1	10	250	207	255	102.0
Total				250	207	255	102%

VAV-11/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
11-1		CD1	12	400	207	429	107.3
11-2		CD1	12	400	496	388	97.0
Total				800	703	817	102.12%

VAV-12/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
12-1		CD1	8	200	255	205	102.5
12-2		CD1	8	200	188	208	104.0
12-3		CD1	8	200	45	194	97.0
Total				600	488	607	101.17%

VAV-02/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
2-1		CD1	12	365	442	382	104.7
2-2		CD1	12	365	422	375	102.7
2-3		CD1	12	365	375	362	99.2
2-4		CD1	12	365	75	366	100.3
Total				1460	1314	1485	101.71%

VAV-03/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3-1	Science	CD1	12	365	265	347	95.1
3-2	Science	CD1	12	365	288	355	97.3
3-3	Science	CD1	12	365	297	368	100.8
3-4	Science	CD1	12	365	292	360	98.6
Total				1460	1142	1430	97.95%

VAV-04/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
4-1		CD1	10	300			-
4-2		CD1	10	300			-
4-3		CD1	10	250			-
Total				850	0	0	0%

VAV-05/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
5-1		CD1	10	315			-
5-2		CD1	10	315			-
5-3		CD1	10	315			-
Total				945	0	0	0%

VAV-06/HALL

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
6-1	HALL	CD1	10	300	187	305	101.7
6-2	HALL	CD1	10	300	288	312	104.0
6-3	HALL	CD1	10	300	250	289	96.3
Total				900	725	906	100.67%

VAV-07/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
7-1	OFFICE	CD1	8	250	77	229	91.6
7-2	OFFICE	CD1	6	100	105	103	103.0
7-3	HALL	CD1	6	100	52	102	102.0
7-4	OFFICE	CD1	6	100	22	97	97.0
7-5	OFFICE	CD1	6	100	117	92	92.0
7-6	HALL	CD1	6	100	62	95	95.0
7-7	RR	CD1	6	50	31	48	96.0
Total				800	466	766	95.75%

VAV-08/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
8-1		CD1	8	200	215	205	102.5
Total				200	215	205	102.5%

VAV-09/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
9-1		CD1	12	400	379	401	100.3
Total				400	379	401	100.25%

CVB-01/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
C1-1		CD-1	10	250	167	167	66.8
Total				250	167	167	66.8%

CVB-02/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
C2-1		CD-1	10	250	131		-
Total				250	131	0	0%

EXISTING SUPPLY/

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
ES-1		SR1	12X8	250	0		-
ES-2		SR1	12X8	250	0		-
ES-3	LAUNDRY	CD-1	10	300			-
ES-4		SR1	12X8	250			-
ES-5		SR1	12X8	250			-
Total				1300	0	0	0%

Circuit Setter

HW CS/

Asset							
Asset Name	**Size**	**Type**	**Design GPM**	**Setting**	**Delta P**	**Final GPM**	**% to Design**
CS-1	0.75	AUTOFLOW	4.8	2-32 PSID	12.85 PSI	4.8	100.0
CS-2	0.75	AUTOFLOW	4.8	2-32 PSID	10.5 PSI	4.8	100.0
CS-3	0.75	AUTOFLOW	4.8	2-32 PSID	11.1 PSI	4.8	100.0
CS-4	0.75	AUTOFLOW	3.3	2-32 PSID	14.2 PSI	3.3	100.0
CS-5	0.75	AUTOFLOW	3.1	2-32 PSID	13.1 PSI	3.1	100.0
CS-6	0.75	AUTOFLOW	2.4	2-32 PSID	12.8 PSI	2.4	100.0
CS-7	0.75	AUTOFLOW	0.7	2-32 PSID	9.9 PSI	0.7	100.0
CS-8	0.75	AUTOFLOW	3.3	2-32 PSID	10.9 PSI	3.3	100.0
CS-9	0.75	AUTOFLOW	1.3	2-32 PSID	7.5 PSI	1.3	100.0
CS-10	0.75	AUTOFLOW	0.9	2-32 PSID	8.2 PSI	0.9	100.0
CS-11	0.75	AUTOFLOW	2.6	2-32 PSID	9.5 PSI	2.6	100.0
CS-12	0.75	AUTOFLOW	1.95	2-32 PSID	10.1 PSI	1.95	100.0
CS-14	0.75	AUTOFLOW	2.2	2-32 PSID	15.5 psi	2.2	100.0
CS-15	0.75	AUTOFLOW	1.0	2-32 PSID	15.5 PSI	1.0	100.0
CS-16	0.75	AUTOFLOW	1.0	2-32 PSID	16.8 PSI	1.0	100.0
Total			38.150000000000006			38.150000000000006	100%

Diffuser Ret/Exh (GRD)

EF-1/RR

Asset								
Asset Name	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
E1-1	ER1	6	50					-
E1-2	ER1	6	50					-
E1-3	ER1	6	50					-
E1-4	ER1	6	50					-
E1-5	ER1	6	50					-
E1-6	ER1	6	50					-
E1-7	ER1	6	50					-
E1-8	ER1	6	50					-
E1-9	ER1	6	50					-
E1-10	ER1	6	50					-
E1-11	ER1	6	50					-
Total			550		0	0	0	0%

EXISTING EXHAUST/

Asset								
Asset Name	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EE-1	ER1	12X8	400					-
EE-2	ER1	8X8	50					-
EE-3	ER1	8X8	50					-
EE-4	ER1	8X8	50					-
EE-5	ER1	8X8	50					-
EE-6	ER1	8X8	50					-
EE-7	ER1	8X8	50					-
EE-8	ER1	8X8	50					-
EE-9	ER1	8X8	50					-
EE-10	ER1	8X8	50					-
EE-11	ER1	12X8	400					-
EE-12	EG5	12X8	160					-
EE-13	EG5	12X8	160					-
EE-14	EG5	10X6	150					-
EE-15	EG5	8X4	80					-
EE-16	EG5	12X8	200					-
Total			2000		0	0	0	0%

National TAB

Project: River Valley Middle School (Jeffersonville, IN)

System/Unit: FAN - Exhaust

Asset: EF-1 AREA:RR

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	A110
Type	-	

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	-	1
Voltage (rated)	-	120
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	**Actual**
CFM	550	
RL Voltage	-	
RL Amperage	-	
Total ESP	-	

National TAB

Project:River Valley Middle School (Jeffersonville, IN)

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF-1/RR

Asset								
Asset Name	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
E1-1	ER1	6	50					-
E1-2	ER1	6	50					-
E1-3	ER1	6	50					-
E1-4	ER1	6	50					-
E1-5	ER1	6	50					-
E1-6	ER1	6	50					-
E1-7	ER1	6	50					-
E1-8	ER1	6	50					-
E1-9	ER1	6	50					-
E1-10	ER1	6	50					-
E1-11	ER1	6	50					-
Total			550		0	0	0	0%

National TAB

Project: River Valley Middle School (Jeffersonville, IN)

System/Unit: FAN - Exhaust

Asset: EF-2 AREA:LAUNDRY (DRYER)

Unit Data		
	Design	**Actual**
MFG	NA	NA
Model Num	NA	NA
Serial Num	-	
Type	-	

Test Data		
	Design	**Actual**
CFM	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	-	

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