

## AIR MOVING EQUIPMENT DATA

Date	27-May-16	Area Served	Pharmacy Clean Rooms	Unit	(E) AHU-10
<b>Unit Information</b>					
Fan Identification	EF-10	Equipment MFG	American Incorporated		
Equipment Location	Building 1D - Roof	Model Number	112203-NYBAF-2600		
Type/Size	-	Serial Number	610179		
<b>Fan Data</b>					
Measurement	Method	Specified	Actual	Fan	
Total Fan CFM	Traverse	2,000	1,383 (1)	Fan Sheave	DD
Total R/A CFM	Inlets	2,075	1,250	Fan Shaft	DD
Fan RPM		DNL	DD	Shaft C/C	DD
TSP <input checked="" type="checkbox"/> ESP <input type="checkbox"/>		2.92"	0.72"	Belt Size/Number	DD
Inlet SP		-0.61"		Motor	
Discharge SP		+0.11"		Motor Sheave	DD
Pre / Final Filter ΔP	P   0.05"   F		-	Motor Shaft	DD
Control Set Point		-		Sheave Adj.	DD
				Fixed Sheave	<input type="checkbox"/>
<b>Motor Data</b>					
Motor MFG.	Marathon			Specified	Actual
Motor HP	2		Voltage	460	167 169 168
Service Factor	1.15		Amperage	2.9	1.2 1.1 1.3
Phase/Hz	3/60		Motor BHP	DNL	0.31
Heater Size/Rating	-		Motor RPM	1745	1015
Motor Frame#	145T		Speed (VFD)	-	36.0 HZ
<b>Fan Static Profile</b>					

See SF-10

### Remarks

(1) Flow monitoring station display = 1,000 CFM.

## DIFFUSER & GRILLE TEST SHEET (EXHAUST)

[illegible]

Remarks



### DUCT TRAVERSE ZONE TOTALS

[illegible]

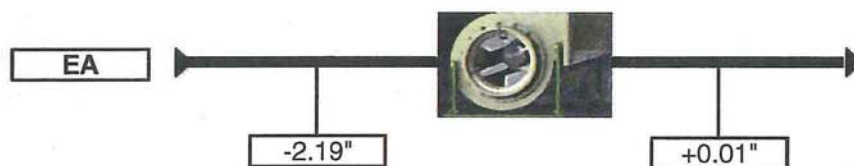
## Remarks

(1) Measured at main SA duct in Sterile Storage ceiling. (2) Measured at CAV-P1 inlet in Office ceiling.

(3) Measured at CAV-P2 inlet in Mechanical Room. (4) Measured at main EA duct in Sterile Storage ceiling.

## EXHAUST AIR MOVING EQUIPMENT DATA

Date	2-May-16	Area Served	Inpatient Pharm. - G2644	Unit	EF-P2
<b>Unit Information</b>					
Fan Identification	G-EF1	Equipment MFG	Central Blower		
Equipment Location	Roof	Model Number	15-BI-SR		
Type/Size	-	Serial Number	66961		
<b>Fan Data</b>					
Measurement	Method	Specified	Actual	Fan	
Total Fan CFM	Traverse	DNL	1,056 (1)	Fan Sheave	- (3)
Total E/A CFM	DNL/Inlets	DNL	772 (2)	Fan Shaft	- (3)
Fan RPM		DNL	1,758	Shaft C/C	- (3)
TSP <input checked="" type="checkbox"/> ESP <input type="checkbox"/>		DNL	2.20"	Belt Size/Number	- (3)
Inlet SP		-2.19"		Motor	
Discharge SP		+0.01"		Motor Sheave	- (3)
Pre / Final Filter ΔP	P - F	-	-	Motor Shaft	- (3)
Control Set Point		-		Sheave Adj.	- (3)
				Fixed Sheave	<input type="checkbox"/>
<b>Motor Data</b>					
Motor MFG.	Baldor			Specified	Actual
Motor HP	1.5		Voltage	460	485 486 484
Service Factor	1.15		Amperage	2.2	1.7 1.8 1.7
Phase/Hz	3/60		Motor BHP	DNL	1.24
Heater Size/Rating	-		Motor RPM	1755	1763
Motor Frame#	145T		Speed (VFD)	-	-
<b>Fan Static Profile</b>					



### Remarks

- 1) Clean Room G2644 CFM total.
- 2) 772 CFM is through operational BSC-1, and approximately 284 CFM through non-operational BSC-2.
- 3) Unit shut down not authorized.



### DUCT TRAVERSE ZONE TOTALS

[illegible]

Remarks

## FUME HOOD VERIFICATION SHEET

Date	25-Apr-16	Hood #	BSC-1	Location	Clean Room - G2644
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### Hood Data

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A																
B																
C																
D				167	177	152	153	166	173	158	168	161	155			
E																
F																
G				441	444	431	428	425	432	441	451	442	475			
H																
I																
J																

Size of Opening	46	(In.)	X	8	(In.)	=	368	/ 144	=	3	SQFT
Total FPM	÷	No. of Readings	=	Avg. FPM	X	Area	=	Total CFM			
6040		20		302		2.556		772			

### Test Data

	Design				Actual Minimum	Actual Maximum
CFM	Min	-	Max	270 (1)	-	772
Avg. Face Velocity	105				-	302
Lowest Face Velocity	-				-	-
Duct Static	-				-	-
Room Static	-				-	-0.18"
Room Static Relative To	Ante Room - G2642					

Smoke Test	-
Sash Marker Installed	Yes
Sash Height	8"
Sash Movement	Vertical
Alarm Location	-
Alarm Set Point	-
Velocity Controls	-
Pass/Fail	Fail

Technician	C. Gorton	TBE	M. Renovich
Instrument	Shortridge - Air Foil	Calibration Date	02/13/2016

Remarks	
(1) Hood maximum exhaust CFM is 750 (270 CFM through sash + 480 CFM down flow through HEPA filter).	
Down flow supply fan through HEPA filter is currently non-operational. BSC-2 is currently non-operational.	





ENVIRONMENTAL SYSTEM TEST & BALANCE  
1420 HOLCOMB AVE. STE. 202  
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ASSOCIATED AIR BALANCE COUNCIL



DATE:	REVISIONS:

FINAL BALANCE

RENO, NV.

UPGRADING INPATIENT PHARMACY CLEAN RM

PROJECT NAME:

VA MEDICAL CENTER  
UPGRADING INPATIENT PHARMACY CLEAN RM  
RENO, NV.

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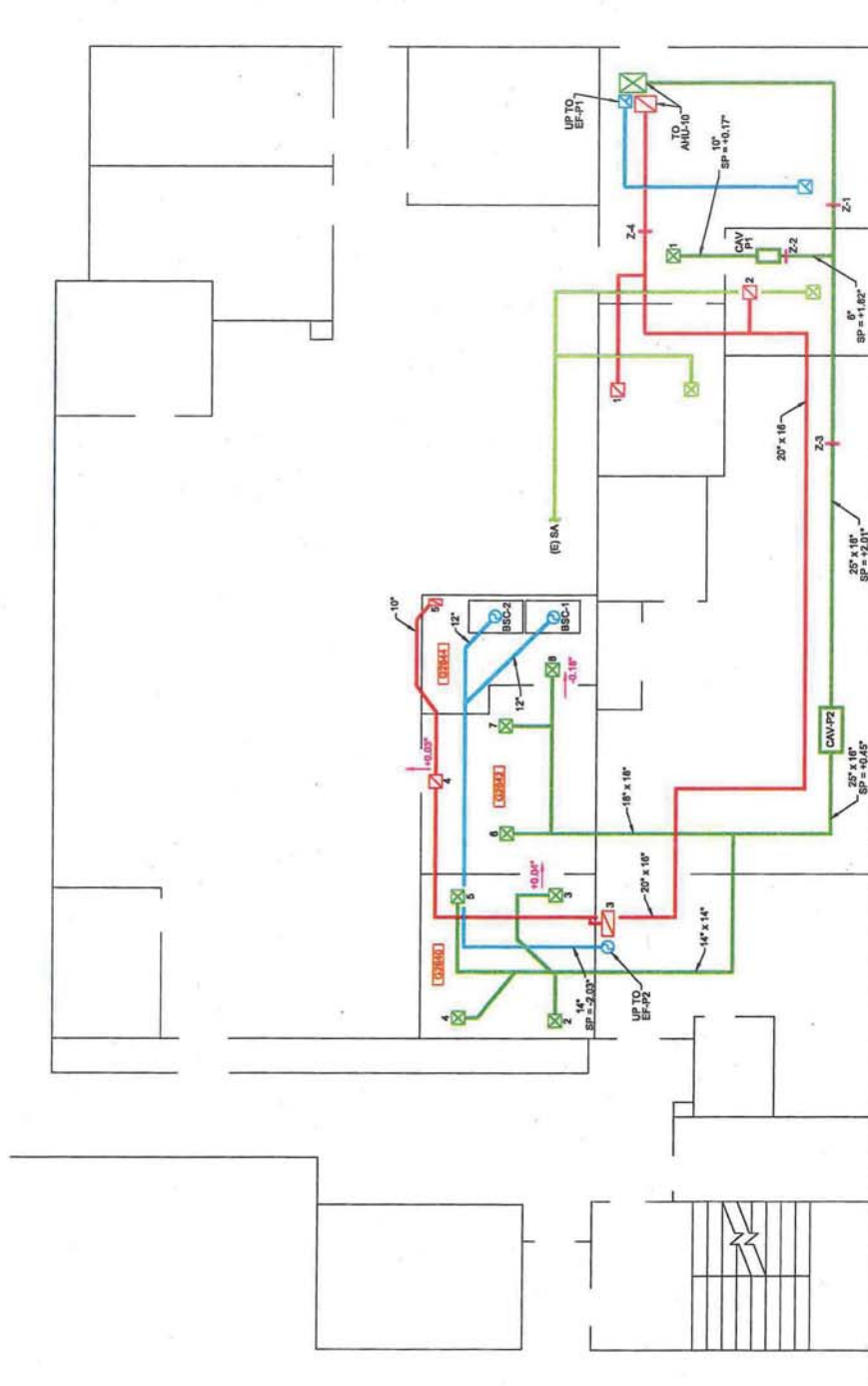
# HVAC PLAN

DATE:	DRAWN BY:	CHECK BY:
6-05-16	R. BERNDT	RB

SCALE: NTS

JOB# 20257-F

M-106



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