

AIR-RIGHT, INC.

Precise.Accurate.Reliable.

T.A.B. Report

Project:

Colorado Islamic Society

16786 E Illif Ave

Aurora, CO 80013

2014-860667

Prepared for:

DSC

Report issue date:

November 3, 2015

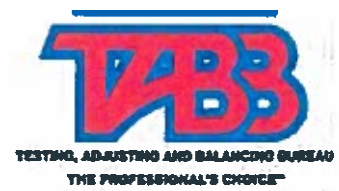
Air-Right, Inc.

Project Number

15438



747 Sheridan Blvd, Unit 8B
Lakewood, Colorado 80214
Phone: (303) 232-5145
Fax: (303) 232-1238
e-mail: henry@air-rightinc.com





AIR-RIGHT, INC.
Precise. Accurate. Reliable.

Test, Adjust, and Balance Report

The data presented in this report is an exact record of system performance and was obtained in compliance with NEBB procedural standards. Any variance from the design requirements shall be documented in this report.

The results shown and information presented in this report is certified to be accurate and complete to the extent possible by the equipment and procedures used to balance the project.

The final air distribution system measurements are in compliance with NEBB Procedural Standards for testing, adjusting, and balancing of environmental systems, and the project specifications.

CERTIFIED BY: 

Date: November 3, 2015

Air-Right, Inc. warrants the air and hydronic system presented in this report is operating at the specified levels as shown in this report at and only at this time. Air-Right, Inc. makes no other warranties, stated or implied, concerning the continued performance, operation, or safety in the use of this equipment past this time.

NEBB Air and Hydronic Systems Certified Professional:
Timothy A. Topping NEBB Number 2589
Certification Expiration/renewal date: 03/31/16





AIR-RIGHT, INC.
Precise.Accurate.Reliable.

Table of Contents

<u>Document</u>	<u>Page</u>
Cover page	1
NEBB TAB Certification	2
Table of Content	3
AHU Report	4-11
Drawings	12

AHU-001

AIR HANDLER UNIT DATA

Manufacturer	Existing	Serial No.	
Model No.		Tested By	

MOTOR DATA

Manufacturer	Service Factor
HP	Phase
RPM	Plate Volts
Frame	Plate Amps
Efficiency	

DRIVE DATA

Motor Model	Fan Bore
Motor Bore	No. Belts
Fan Drive	Belt Size

TEST DATA

	Design	Actual	%		Design	Actual	%
Total Unit CFM	1990	1415	71	Outside Air CFM	488	450	92
Outlet CFM	1980	1415	71	Return Air CFM			

TEST PRESSURES

	Design	Actual	%		Design	Actual	%
Filter In				Fan In			
Filter Out				Fan Out			



AIR-RIGHT, INC.

Precise Accurate Reliable

LOCATION:

PROJECT NUMBER:

15438

CONTACT:

Andrew Barrows

Cooling Coil In

Heating Coil In

Cooling Coil Out

Heating Coil Out

NOTES:

Test Data

Total Unit CFM

Existing Unit, filters/coil dirty

AHU-001 / Unit Data

UNIT DATA

Name	Type	Size	Design CFM	Prelim 1	Final CFM	% of Design
Supply Outlet-001	Existing		495		350	71
Supply Outlet-002	Existing		495		365	74
Supply Outlet-003	Existing		495		355	72
Supply Outlet-004	Existing		495		345	70
Totals			1980		1415	

AHU-002

AIR HANDLER UNIT DATA

Manufacturer	Existing	Serial No.	
Model No.		Tested By	

MOTOR DATA

Manufacturer	Service Factor
HP	Phase
RPM	Plate Volts
Frame	Plate Amps
Efficiency	

DRIVE DATA

Motor Model	Fan Bore
Motor Bore	No. Belts
Fan Drive	Belt Size

TEST DATA

	Design	Actual	%		Design	Actual	%
Total Unit CFM	1990	1625	82	Outside Air CFM	488	460	94
Outlet CFM	1990	1625	82	Return Air CFM			

TEST PRESSURES

	Design	Actual	%		Design	Actual	%
Filter In				Fan In			
Filter Out				Fan Out			

Cooling Coil In

Heating Coil In

Cooling Coil Out

Heating Coil Out

NOTES:

Test Data
Total Unit CFM
Existing unit, filter/coil dirty

AHU-002 / Unit Data

UNIT DATA

Name	Type	Size	Design CFM	Prelim 1	Final CFM	% of Design
Supply Outlet-001	Existing		440		370	84
Supply Outlet-002	Existing		440		345	78
Supply Outlet-003	Existing		440		350	80
Supply Outlet-004	Existing		450		365	81
Supply Outlet-005	Existing		95		85	89
Supply Outlet-006	Existing		125		110	88
Totals			1990		1625	

AHU-003

AIR HANDLER UNIT DATA

Manufacturer	York	Serial No.	N1C3553147
Model No.	ZF048N10N1AA2A	Tested By	

MOTOR DATA

Manufacturer	Century	Service Factor	1.15
HP	1.5	Phase	1
RPM	1725	Plate Volts	230
Frame	Y56	Plate Amps	7.6
Efficiency			

DRIVE DATA

Motor Model	V144	Fan Bore	1
Motor Bore	7/8	No. Belts	1
Fan Drive	AK56	Belt Size	A36

TEST DATA

	Design	Actual	%		Design	Actual	%
Total Unit CFM	1990	1945	98	Outside Air CFM	488	465	95
Outlet CFM	1980	1945	98	Return Air CFM			

TEST PRESSURES

	Design	Actual	%		Design	Actual	%
Filter In		-0.25		Fan In		-0.71	

LOCATION:

PROJECT NUMBER:
15438

CONTACT:
Andrew Barrows

Filter Out	Fan Out	0.32
Cooling Coil In	Heating Coil In	
Cooling Coil Out	Heating Coil Out	

AHU-003 / Unit Data

UNIT DATA

Name	Type	Size	Design CFM	Prelim 1	Final CFM	% of Design
Supply Outlet-001	Existing		0		105	10500
Supply Outlet-002	Existing		660		610	92
Supply Outlet-003	Existing		660		625	95
Supply Outlet-004	Existing		660		605	92
Totals			1980		1945	

AHU-004

AIR HANDLER UNIT DATA

Manufacturer	York	Serial No.	N1G4861448
Model No.	ZF048N10N1AA2A	Tested By	

MOTOR DATA

Manufacturer	Century	Service Factor	1.15
HP	1.5	Phase	1
RPM	1725	Plate Volts	230
Frame	Y56	Plate Amps	7.6
Efficiency			

DRIVE DATA

Motor Model	VL44	Fan Bore	1
Motor Bore	7/8	No. Belts	1
Fan Drive	AK56	Belt Size	A36

TEST DATA

	Design	Actual	%		Design	Actual	%
Total Unit CFM	1990	1765	89	Outside Air CFM	488	470	96
Outlet CFM	1995	1765	88	Return Air CFM			

TEST PRESSURES

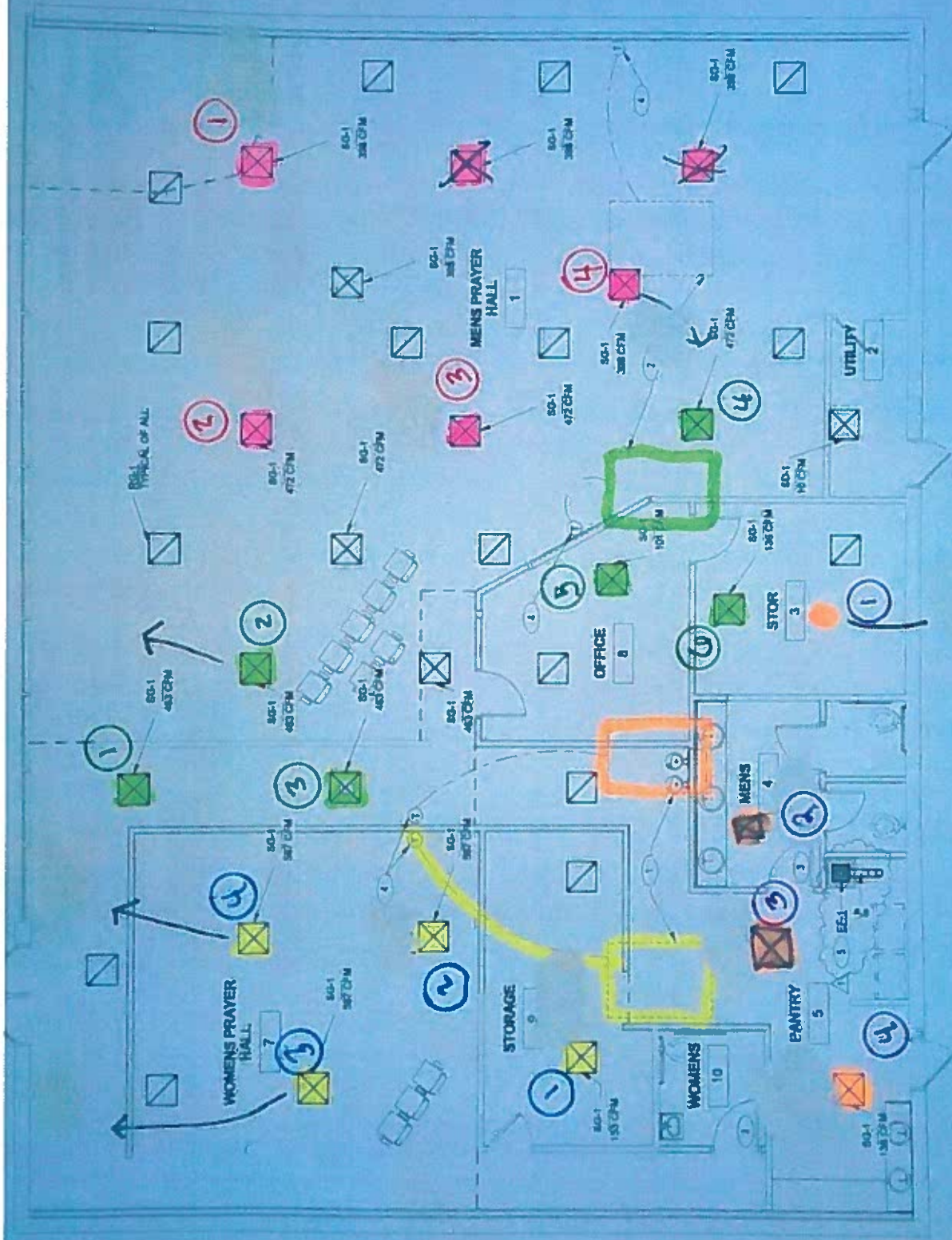
	Design	Actual	%		Design	Actual	%
Filter In		-0.23		Fan In		-0.77	

Filter Out		Fan Out	0.27
Cooling Coil In		Heating Coil In	
Cooling Coil Out		Heating Coil Out	

AHU-004 / Unit Data

UNIT DATA

Name	Type	Size	Design CFM	Prelim 1	Final CFM	% of Design
Supply Outlet-001	Existing		165		150	91
Supply Outlet-002	Existing		610		570	93
Supply Outlet-003	Existing		610		555	91
Supply Outlet-004	Existing		610		560	92
Totals			1995		1835	



PROJ 1617111111

1 Mechanical - New
3/16" = 1'-0"