

AIR BALANCING SPECIALTY INC.

**DISTRICT OFFICE
PORTLAND, OREGON**

PROJECT NO: 21-4253-DW

AIR BALANCING SPECIALTY INC. 3532 S.E. MILWAUKIE AVENUE PORTLAND, OREGON 97202-2751
IN BUSINESS SINCE 1964 CERTIFIED NEBB FIRM - CERTIFICATION NO. 2984
PHONE (503) 230-2332 FAX (503) 230-2820

PROJECT NAME: **DISTRICT OFFICE - PORTLAND, OREGON**

OWNER: DAVID DOUGLAS SCHOOL DISTRICT

DATE STARTED: 04/26/21

DATE FINISHED: 04/26/21

MECHANICAL ENGINEER:

WORK PERFORMED BY: DALE NEFFENDORF
WILLIAM NEFFENDORF

GENERAL CONTRACTOR:

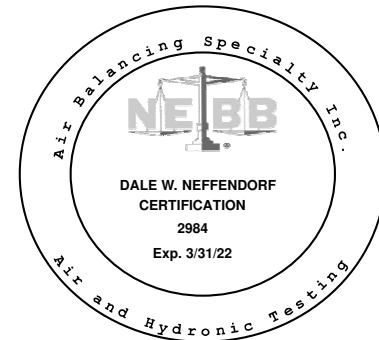
CERTIFIED BY: _____

MECHANICAL CONTRACTOR:

DATE: _____

SHEET METAL CONTRACTOR:

CONTROL CONTRACTOR:



IN BUSINESS SINCE 1964

AIR BALANCING SPECIALTY INC.

CERTIFIED NEBB No. 2984

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CERTIFIED TEST AND BALANCE REPORT

PROJECT NO.: 21-42253-DW

INSTRUMENT AIR	MODEL NO.	SERIAL NO.	RANGE	CALIBRATION DATE
(D) Shortridge Airdata Multimeter ADM Accessories	ADM860	M98375	0.0001 to 60.00" WC.	1/12/2021
(DH) Datameter Flow Hood	8400		25 - 2500 CFM	
(DP) Datameter Pitot Tube	12", 18", 24", 36", 48" & 60"		50 - 30000 FPM	
(DA) Datameter Airfoil	AFP18		50 - 5000 FPM	
(DG) Datameter Velgrid	VLG84		50 - 2500 FPM	
(R) Rotating Vane Anemometer	A4/-4"	83072B	200 - 10000 FPM	1/14/2021
Amprobe Ammeter	Fluke 335	99330394	0 - 750 Volts / 0 - 300 Amps	1/8/2021
Shimpo Tachometer	DT-207L	D26B0033	6 - 30,000 RPM	1/12/2021
WATER				
Hydrodata Meter	HDM-250	W01025	DP -10 to +300 PSI	1/12/2021

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EQUIPMENT USED IN BALANCING

PROJECT: DISTRICT OFFICE - PORTLAND, OREGON

PROJECT NO.: 21-4253-DW

PAGE ABBREVIATION KEY

AK - GRILLE AREA OR RESTRICTION VALUE

VEL - VELOCITY

CFM - CUBIC FEET PER MINUTE

FPM - FEET PER MINUTE

ACH - AIR CHANGES PER HOUR

IN BUSINESS SINCE 1964

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PROJECT: DISTRICT OFFICE- PORTLAND, OREGON

PROJECT NO.: 21-4253-DW

Ref	Ins	AREA SERVED			OUTLET			DESIGN			CUBIC FEET	TEST #1				TEST #2			
		Rm.#	No.	Size	Blow	AK	Vel	CFM	FPM	CFM		ACH	PRESSURE	FPM	CFM	ACH	PRESSURE		
		1st Floor																	
	DH	Recp., Shipping, Receiv.							1.00		5902		530	5.39					
	DH	Holly Effenburger							1.00		959		100	6.26					
	DH	Dan McCue							1.00		1285		105	4.90					
	DH	Emily Abellera							1.00		1165		95	4.89					
	DH	Amy Roley							1.00		1911		150	4.71					
	DH	Storage							1.00		806		70	5.21					
	DH	Gloria Cruz							1.00		808		70	5.20					
	DH	Stefanie Edenburn							1.00		969		85	5.26					
	DH	Darcy Powers							1.00		1438		140	5.84					
	DH	Conference	109					1.00		2694		405	9.02						
	DH	Open Office							1.00		23810		2125	5.35					
	DH	Paul Rodeman							1.00		971		90	5.56					
	DH	Patt Komar							1.00		2098		230	6.58					
	DH	Mens Entry							1.00		376		35	5.59					
	DH	Mens RR Supply							1.00		1247		120	5.77					
	DH	Mens RR Exhaust							1.00		1247		65	3.13					
	DH	Womens RR Supply							1.00		1240		110	5.32					
	DH	Womens RR Exhaust							1.00		1240		60	2.90					
	DH	Restroom Supply							1.00		694		145	12.54					
	DH	Restroom Exhaust							1.00		694		55	4.76					

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CONSTANT VOLUME - FPM

AIR BALANCE DATA SHEET

PROJECT NO.: 21-4253-DW

PROJECT: DISTRICT OFFICE - PORTLAND, OREGON

DATE START: 04/26/21

FINISH: 04/26/21

SYSTEM: Offices, Restrooms

SECTION:

BY: DN / WN

PAGE: 1 OF 3

Ref	Ins	AREA SERVED			OUTLET			DESIGN		CUBIC FEET	TEST #1				TEST #2			
		Rm.#	No.	Size	Blow	AK	Vel	CFM	FPM		CFM	ACH	PRESSURE	FPM	CFM	ACH	PRESSURE	
1st Floor																		
	DH	Lunch Room						1.00		5991		270	2.70					
	DH	Mother						1.00		452								
	DH	Conference	129					1.00		1615		140	5.20					
	DH	Jared Hayes						1.00		1417		50	2.12					
	DH	Mary Pearson						1.00		1403		50	2.14					
	DH	Open Office						1.00		9101		1060	6.99					
	DH	Copy						1.00		676		95	8.43					
2nd Floor																		
	DH	Superintendent Open Office						1.00		5690		495	5.22					
	DH	Office	1					1.00		1986		185	5.59					
	DH	Office	2					1.00		3637		335	5.53					
	DH	Office	3					1.00		1322		115	5.22					
	DH	Conference	4					1.00		1331		110	4.96					
	DH	Curriculum Open Office						1.00		22771		1885	4.97					
	DH	Office	1					1.00		1676		135	4.83					
	DH	Office	2					1.00		1705		215	7.57					
	DH	Office	3					1.00		1335		170	7.64					
	DH	Office / Conference	214					1.00		4590		535	6.99					
	DH	Office	214A					1.00		563		50	5.33					

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CONSTANT VOLUME - FPM

AIR BALANCE DATA SHEET

PROJECT NO.: 21-4253-DW

PROJECT: DISTRICT OFFICE - PORTLAND, OREGON

DATE START: 04/26/21

FINISH: 04/26/21

SYSTEM: Lunch Room, Mother, Offices, Conference

SECTION:

BY: DN / WN

PAGE: 2 OF 3

Ref	Ins	AREA SERVED			OUTLET			DESIGN			CUBIC FEET	TEST #1				TEST #2			
		Rm.#	No.	Size	Blow	AK	Vel	CFM	FPM	CFM		ACH	PRESSURE	FPM	CFM	ACH	PRESSURE		
		2nd Floor																	
	DH	Mens Entry						1.00			442		35	4.75					
	DH	Mens RR Supply						1.00			1331		155	6.99					
	DH	Mens RR Exhaust						1.00			1331		355	16.00					
	DH	Womens RR Supply						1.00			1351		130	5.77					
	DH	Womens RR Exhaust						1.00			1351		270	11.99					
	DH	Training	221					1.00			10646		0	0.00					
	DH	IT Dept.	225					1.00			2971		105	2.12					
	DH	IT Dept	225	A				1.00			1048		30	1.72					
	DH	IT Dept.	225	B				1.00			1051		35	2.00					
	DH	Open Office		C				1.00			7135		535	4.50					
	DH	Office		E				1.00			1533		165	6.46					

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CONSTANT VOLUME - FPM

AIR BALANCE DATA SHEET

PROJECT NO.: 21-4253-DW

PROJECT: DISTRICT OFFICE - PORTLAND, OREGON

DATE START: 04/26/21

FINISH: 04/26/21

SYSTEM: Restrooms, Training, IT Dept, Open Office, Office

SECTION:

BY: DN / WN

PAGE: 3 OF 3