#### TOWN OF BROOKLINE

333 Washington Street, Brookline, Massachusetts 02445

PURCHASE ORDER CHANGE FORM INVOICE DATE; 07-Mar-22 Purchase Order Number 21201437 N B Kenney Company, Inc 68 Barnum Road Devens MA 01434 Vendor Number 59874 PAYMENT AMOUNT 3,075,000.00 3,437,156.61 ORGANIZATION 2594C204 FUND ACTIVITY овјест 6С0002 BUDGET \$77,978.00 BALANCE FOR: Tappan Gym - Deferred Maintenance AMOUNT \$77,978.00 Change Order # Date 3/3/2022 Wire Domestic Water Heaters, New Make up Air Unit BUILDING COMMISSION SELECT BOARD APPROVAL OF: APPROVAL OF: Heather Hamilton, Chairman Janet Fierman, Chairman Raul Fernandez George Cole Bernard Greene Kenneth Kaplan Karen Breslawski John VanScoyoc Miriam Aschkenasy Nathan E. Peck SCHOOL COMMITTEE
APPROVAL OF: Samuel Rippin, Assistant Superintendent For Administration and Finance



Hill International, Inc.

75 Second Avenue, Suite 300 Needham, MA 02494 Tel: 617-778-0900 Fax: 617-778-0999

www.hillintl.com

March 8, 2022

Mr. Ray Masak, P.E. Project Manager Town of Brookline Building Department 333 Washington Street Brookline, MA 02445

RE: Recommendation to approve NB Kenney Change Order 006

Dear Mr. Masak:

NB Kenney is submitting original copies of Change Order 006 for the Brookline High School Deferred Maintenance Project for acceptance by the Town of Brookline (ToB). Hill and WRA have previously reviewed, negotiated where applicable, and agree that all items listed in this Change Order are fair, reasonable for the described scope of work, and are compensable adjustments to the Lump Sum Contract. This change order is an additional cost funded from Owner' Hard Cost Contingency total \$77,978.00.

An itemized summary is following:

PCO#	Description	Current Amount	Reason Code
12	Wiring of Domestic Water Heaters by Electrical Contractor - work not in scope	\$3,938.00	Design Omission
13R1	Add Make Up Air Unit	\$74,040.00	Owner Request

Based on the above, Hill recommends to ToB approval of Change Order 006 to NB Kenney lump sum contract.

Very truly yours,

Andy Vo, PMP, CCM, LEED AP, MCPPO

Sr. Project Manager



## Change Order

PROJECT: (name and address) Brookline High School 115 Greenough Street Brookline, MA 02445 **OWNER:** (name and address)

Town of Brookline - Represented by The Brookline Building Commission 333 Washington Street

Brookline, MA

CONTRACT INFORMATION:

Contract For: Deferred Maintenance Expansion Project

**ARCHITECT**: (name and address) William Rawn Associates, Architects, Inc. 10 Post Office Square

Boston, MA 02109

CHANGE ORDER INFORMATION:

Change Order #: 6 Date: February 28, 2022

**CONTRACTOR:** (name and address)

N.B. Kenney Company, Inc. 68 Barnum Road Devens, MA 01434

The Contract is changed as follows:

(Insert a detailed description of the change and, if applicable, attach or reference specific exhibits. Also include agreed upon adjustments attributable to executed Construction Change Directives.)

\$3,938.00 NBK PCO # 012: Wiring of Domestic Water Heaters by Electrical Contractor - work not in scope: NBK PCO # 13-R1: Furnish and Install new Make Up Air Unit for Boiler Room: \$74,040.00

The original (Contract Sum) (Guaranteed Maximum Price) was	\$ 3,075,000.00
The net change by previously authorized Change Orders	\$ 303,363.61
The (Contract Sum) (Guaranteed Maximum Price) prior to this Change Order was	\$ 3,377,363.61
The (Contract Sum) (Guaranteed Maximum Price) will be (increased) (decreased) (unchanged) by this Change Order in the amount of	\$ 77,978.00
The new (Contract Sum) (Guaranteed Maximum Price), including this Change Order, will be	\$ 3,455,341.61
The Contract Time will be (increased) (decreased) (unchanged) by	( <b>0</b> ) days
The new date of Substantial Completion will be	Remains Unchanged

NOTE: This Change Order does not include adjustments to the Contract Sum or Guaranteed Maximum Price, or the Contract Time, that have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.

#### NOT VALID UNTIL SIGNED BY THE ARCHITECT, CONTRACTOR AND OWNER.

WRA Architects, Inc	N.B. Kenney Company, Inc.	Town of Brookline
ARCHITECT (Firm name)	CONTRACTOR (Firm name)	OWNER (Firm name)
SIGNATURE A G	Robert W. Dejadon	
SIGNATURE	SIGNATURE	SIGNATURE
A 1 Y 1 D 1 A 11 .		
Andrew Jonic - Project Architect	Robert W. Dejadon - Vice President	Raymond D. Masak - Project Manager
PRINTED NAME AND TITLE	PRINTED NAME AND TITLE	PRINTED NAME AND TITLE
3/7/22	03/03/2022	
DATE	DATE	DATE

CAUTION: You should sign an original AIA Contract Document, on which this text appears in RED. An original assures that changes will not be obscured.



## **Change Order Proposal Cost Summary**

Description of Change:   Additional wiring done on T&M by Electrical Contractor for the domestic water heaters, price also includes install 2" ridgid insulation on the existing louver.    Exclusions:	Job Number: 020-025		ob Name:			ol - Defferred M	
Price also includes install 2" ridgid insulation on the existing louver.							
LABOR COSTS	Description of Change:						water heaters,
Engineering	Exclusions:	<u> </u>		LABO	R COSTS		
Pipefitter - Journeymen	Labor - DESCRIPTION OF COSTS	: [	HOURS	DIRECT	BURDEN	TOTAL	
Pipefitter - Foreman	Engineering		0	\$96.13	\$15.80	\$0.00	
Pipefitter - Supervisor	Pipefitter - Journeymen	REGULAR RATE	0	\$96.13	\$15.80	\$0.00	
Pipefitter - Supervisor		REGULAR RATE	3	\$104.46	\$17.19	\$364.95	
Pipefitter - Journeymen	Pipefitter - Supervisor	REGULAR RATE	0	\$107.88	\$18.02	\$0.00	
Pipefitter - Foreman	Pipefitter - Supervisor	Overtime @ 1.5		111		0.00	
Pipefitter - Supervisor	Pipefitter - Journeymen	Overtime @ 1.5			1.14	0.00	
Consumables	Pipefitter - Foreman				1.	0.00	
LABOR TOTAL: \$364.95 \$	Pipefitter - Supervisor				7.7	0.00	
Consumables	Trucking					0.00	
Material Costs   See attached Detailed Spreadsheet   See attached Quote   See attached Quote   See attached Quote   See attached Detailed Spreadsheet   O.00			LABOR	TOTAL:		\$364.95	\$ -
See attached Quote   0.00							0.00
See attached Detailed Spreadsheet   0.00				See attach			0.00
MATERIAL & EQUIPMENT SUBTOTAL: 0.00   Sales Tax	Equipment Costs - Crane			***************************************			0.00
Sales Tax   6.25% (if applicable)   TOTAL MATERIAL & OTHER:   0.00						d Spreadsheet	0.00
TOTAL MATERIAL & OTHER: 0.00			& EQUIPN	IENT SUB	TOTAL:		0.00
LABOR TOTAL: 364.95	,	Sales Tax					
Subcontractor Sub-Total   3,008.91			TOT				0.00
Brothers Electrical - See attached   3,008.91		•		L	ABOR TO	TAL:	364.95
Subcontractor Sub-Total   3,008.91				TOTA	AL RAW C	OST:	364.95
Subcontractor Sub-Total   3,008.91	Brothers Electrical - See attached						3,008.91
N.B. Kenney Direct Costs   364.95     NBK Overhead & Profit on Direct Costs @ 15%   54.74     Subcontractor Direct Costs @ 10%   300.89     Subcontractor Overhead & Profit on Direct Costs @ 10%   300.89     NBK Overhead & Profit on Subcontractors @ 5%   150.45     TOTAL COSTS   3,879.94     Bond Costs at 1.5%:	Trucking						
N.B. Kenney Direct Costs   364.95     NBK Overhead & Profit on Direct Costs @ 15%   54.74     Subcontractor Direct Costs   3,008.91     Subcontractor Overhead & Profit on Direct Costs @ 10%   300.89     NBK Overhead & Profit on Subcontractors @ 5%   150.45     TOTAL COSTS   3,879.94     Bond Costs at 1.5%:				Subc	ontractor	Sub-Total	3,008.91
NBK Overhead & Profit on Direct Costs @ 15% 54.74	SUIVIIVIARY	NRK	enney Dir	ect Costs	MIS NAMES ASSESSED.		364 95
Subcontractor Direct Costs   3,008.91			-			15%	
Subcontractor Overhead & Profit on Direct Costs @ 10% 300.89   NBK Overhead & Profit on Subcontractors @ 5% 150.45   TOTAL COSTS 3,879.94				_		1070	
NBK Overhead & Profit on Subcontractors @ 5% 150.45     TOTAL COST	Subcon					10%	
TOTAL COST   3,879.94							
Bond Costs at 1.5%:  Round off to nearest dollar TOTAL PRICE FOR THIS CHANGE: \$3,938.00  This PCO labor is based on: YES Straight Time  NO Overtime							
Round off to nearest dollar (0.14 TOTAL PRICE FOR THIS CHANGE: \$3,938.00 This PCO labor is based on: YES Straight Time NO Overtime			eventogramine or a			TOTAL COSTS	3,879.94
Round off to nearest dollar (0.14 TOTAL PRICE FOR THIS CHANGE: \$3,938.00 This PCO labor is based on: YES Straight Time NO Overtime	Bond Costs at 1.5%:					1.5%	58.20
TOTAL PRICE FOR THIS CHANGE: \$3,938.00  This PCO labor is based on: YES Straight Time NO Overtime		The state of the s		Roi	and off to		managed an age to be able to a second
This PCO labor is based on: YES Straight Time NO Overtime			T				AND DESCRIPTION OF THE PROPERTY OF THE PARTY
	This PCO labor is based on:	VES Straight Time	-			•	
				INO		Overunie	

This proposal is based on current market costs and conditions.

If the approval of this change is delayed to a point where changes occur in our costs and/or conditions, we reserve the right to cancel or modify this change order accordingly.

Submitted By: Robert W. Dejadon Signature: Robert W. Dejadon Date: 1/28/2022

## First-Tier Subcontractor COR Proposal Form

Sub-Contractor Name:	Brothers Electrical Corporation
COR Number	6
Date:	12/14/2021
Description of Work:	COR#6- Re-circ, Extend Wiring to Heaters

Labor		Hrs	Rate	Total
Foreman		8.00	\$102.17	\$817.36
Journeyman		8.00	\$96.36	\$770.88
Apprentice		8.00	\$70.10	\$560.80
		0.0		\$0.00
		0.0		\$0.00
TOTAL LABOR				\$2,149.04
Equipment	Qty	Unit	\$/Unit	Total
				\$0.00
				\$0.00
TOTAL EQUIPMENT				\$0.00
Materials	Qty	Unit	\$/Unit	Total
Lump Sum	1.0	1	\$1.00	\$215.1
				\$0.00
				\$0.00
TOTAL MATERIALS				\$215.10
Supplemental Costs				
Health, Welfare & Benefits on Labor				\$0.0
Insurance & Payroll Taxes on Labor (30%)			30%	\$644.7
verhead and Profit				
Cost of Work excluding Sub-Tier Subcontractor	or Costs			\$3,008.9
10% Markup for Overhead and Profit om Item			10%	\$300.8
otal				
SUB TOTAL AMOUNT				\$3,309.8

School 521	AMOUNT EATERS	AAL.	MA TO THE PART OF
INWOIGE NO. 5  Connorm   Outgoing    Stack line Shee	\$ Dex	S COSEC) S TOTAL MATERIAL TOTAL MATERIAL	Thank Neu!
Brothers Electrical Corporation 18 Graft Rd Unit #31 Newburysort, MA 0.950 (878) 462:11.11 (978) 465,7285 Master Ltd., #13429A	DESCRIPTION OF WORK  ALCON RE  ALCON RE  ALCON RE  ACON R	CONTINUE INCOME	Three story in the
	THING AS DESIGNATE A FRANCE AMOUNTER HEATERS	Removie all alland not assistante not assistante not tassistante nota nota nota nota nota nota nota nota	DANTEMENT OF COLUMN TO STATE OF COLUMN THE STA
ASS ASSISTANCE OF THE PROPERTY		Remarks ————————————————————————————————————	Autoria de la companya de la company
PRICE AMOUNT			
MATERIAL  Sector  Sect	X Controller X TOYConn Me Pole Ny Pole E Ny Collection		
3/4 K.c. Se   #10 pessic   #10 seed 			
TIME STANDARD STANDAR	- 14.31.1.00.00 - 14.31.1.00.00		Sor



Ø:

5264: 5264 ö

JOB-0796 Brookline Deferred Maintenance

Job ID: Project:

Vendor: GB\_BOSTON

		- 1
Mai	ierial Material Unit Result	
KO SEAL	.5480 7.74	
PLASTIC ANCHOR	.0618	
WIRE-NUT MED - RED 0	.4107	
FLEXIBLE STEEL CONDUIT	.7836 7.84	
FLEX COND ANGLE INS-THROAT CONN	.4653 18.31	
FLEX.COND. STRAIGHT.CONN		
FLEXIBLE ALUM · CONDUIT		
FLEX COND ANGLE CONN	.6859	
	.6981 5.58	
TY-WRAP 0		
1P TOGGLE COMMERCIAL -GRADE		
Phase Total		
Job Total	s: 215.16	1
	Mai  1  0 0 0 0 0 0 0 0 0 0 Phase Totali Job Totali	Material Unit Unit Unit Unit Unit Unit         Result Result           1.5480         7.74           0.0618         1.24           0.4107         4.93           0.4107         4.93           0.7453         7.84           0.9218         1.831           0.8996         22.49           0.6881         2.74           0.6581         5.58           0.8797         14.95           Phase Totals:         215.16           Job Totals:         215.16

Brothers Electrical Corp

<b>PROJECT</b>	NAME
CONTRAC	TOR

**Brookline High School - Defferred Maintenance** 

PROJECT NO.

N.B. Kenney Company, Inc.

Rates certified by:

Signature:

Joe Bravo

(print name) Joe Bravo CONTRACT NO.

Brothers Electrical Corporation

**SUBCONTRACTOR** 

**Brothers Electrical Corporation** 

Effective Dates: 9/1/2021 - 2/28/2022

#### HOURLY LABOR RATE WORKSHEET

		Prevailin			ling Wage I	Rate	3	1	
ltem	Rate	Re	Regular Time		Overtime	T	uble Time	Notes	
		Ĺ		Ĺ					
(1) Base Labor Rate		\$	34.24	\$	51.36	\$	68.48	Verify with Prevailing Wage Rate or Co	
(2) Fringe Benefits					_	$\vdash$		Verify with Prevailing Wage Rate or C	
a. Health Benefit Plan		\$	13.00	\$	13.00	\$	13.00		
b. Local 103 Pension Fund		\$	11.13	\$	11.13	\$	11.13		
c. Deferred Income Fund		\$	4.30	\$	4.30	\$	4.30		
d. Joint Apprenticeship and Training Fund		\$	0.85	\$	0.85	\$	0.85		
e. Electrical Industry Labor- Mgmt Cooperation Trust		\$	5.50	\$	5.50	\$	5.50		
f. National Labor Management Cooperation Committee		\$	0.01	\$	0.01	\$	0.01		
g. Administrative Maintenance Fund		\$	0.10	\$	0.10	\$	0.10		
h. National Electrical Benefit Fund		\$	0.76	\$	0.76	\$	0.76		
i. National Electrical Industry Fund/Service Charge	}	\$	0.21	\$	0.21	\$	0.21		
i.			ļ	Ĺ	!	ĺ .			
k.			ļ	ĺ	_ !		_		
i.			ļ	ĺ	_ !		_		
(2). Fringe Benefits Subtotal		\$	35.86	\$	35.86	\$	35.86	Note 1 - below	
(1 + 2) Total DIRECT LABOR Hourly Rate		\$	70.10	\$	87.22	\$	104.34	Base Labor Rate (1) + Fringe Benefits (2)	
(3). Burden: Taxes & Insurance				<u> </u>					
a. FICA - Social Security	6.30%	\$	2.16	\$	3.24	\$	4.31	Fixed Federal Rate	
b. FICA - Medicare	1.45%	\$	0.50	\$	0.74	\$	0.99	Fixed Federal Rate	
c. FUTA - Federal Unemployment	0.65%	\$	0.22	\$	0.33	\$	0.45	Fixed Federal Rate	
d. UI - MA State Unimployment Insurance	11.13%	\$	3.81	\$	5.72	\$	7.62	Contractor provide rate.	
e. EMAC - MA Unemployment Health Insurance	0.48%	\$	0.16	\$	0.25	\$	0.33	Fixed State Rate	
f. MA Workforce Training Fund	0.056%	\$	0.02	\$	0.03	\$	0.04	Fixed State Rate	
g. Workers Compensation	7.96%	\$	2.73	\$	4.09	\$	5.45	Contractor provide rate	
h. General Liability	0.00%	\$	-	\$	-	\$	-		
i. Umbrellia	0.00%	\$	-	\$	_ !	\$	-		
j. Auto	0.00%	\$	-	\$	_ !	\$	-		
k. Sick Time	1.98%	\$	0.68	\$	0.68	\$	0.68	MGL c149 §§ 148C & 148D	
(3). Burden Subtotal	30.01%	ļ.,	10.27	\$	- 15.07	\$	- 19.87	4	
Small Tools	1.50%			\$		\$	-	Supplemental cost	
Other (payment bonds, performance bonds, etc.)	2.00%	1	NI/A	Þ	NI/A	P	- N1/A		
Other (payment bonds, performance bonds, ctc.)	2.00 /0		N/A		N/A		N/A	Supplemental Cost @ end of	

Company Name:

<b>PROJECT</b>	NAME
CONTRAC	TOR

**Brookline High School - Defferred Maintenance** 

PROJECT NO.

CONTRACTOR

N.B. Kenney Company, Inc.

CONTRACT NO.

SUBCONTRACTOR Brothers Electrical Corporation

Effective Dates: 9/1/2021 - 2/28/2022

## HOURLY LABOR RATE WORKSHEET

Journeyman Electrician - Local 103

CLASSIFICATION:

Electrician

	Prevailing Wage Rate							
ltem	Rate	Re	gular Time		Overtime	Do	ouble Time	Notes
(1) Base Labor Rate		\$	56.84	\$	85.26	\$	113.68	Verify with Prevailing Wage Rate or Contract
				_		<u> </u>		
(2) Fringe Benefits					-		-	Verify with Prevailing Wage Rate or Contract
a. Health Benefit Plan		\$	13.00	\$	13.00	\$	13.00	
b. Local 103 Pension Fund		\$	11.13	\$	11.13	\$	11.13	
c. Deferred Income Fund		\$	7.22	\$	7.22	\$	7.22	
d. Joint Apprenticeship and Training Fund		\$	0.85	\$	0.85	\$	0.85	
e. Electrical Industry Labor- Mgmt Cooperation Trust		\$	5.50	\$	5.50	\$	5.50	
f. National Labor Management Cooperation Committee		\$	0.01	\$	0.01	\$	0.01	
g. Administrative Maintenance Fund		\$	0.10	\$	0.10	\$	0.10	
h. National Electrical Benefit Fund		\$	1.41	\$	1.71	\$	1.71	
i. National Electrical Industry Fund/Service Charge		\$	0.30	\$	0.34	\$	0.34	
j.					-		-	
k.						ĺ	-	
(2). Fringe Benefits Subtotal		\$	39.52	\$	39.86	\$	39.86	Note 1 below
	<del></del>			ĺ		m		
(1 + 2) Total DIRECT LABOR Hourly Rate		\$	96.36	\$	125.12	\$	153.54	Base Labor Rate (1) +
(1 · 2) Total Bitter EABOR Hourly Rute		Ψ.	30.30	Ÿ	123.12	۳	133.34	Fringe Benefits (2)
(3). Burden: Taxes & Insurance			······································			_	<del></del>	
` '	0.000/		0.50	١	F 07		7 40	E. 15 1 15 .
a. FICA - Social Security	6.30%		3.58	\$	5.37	\$		Fixed Federal Rate
b. FICA - Medicare	1.45%	l .	0.82	\$	1.24	\$		Fixed Federal Rate
c. FUTA - Federal Unemployment	0.65%	l '	0.37	\$	0.55	\$		Fixed Federal Rate
d. UI - MA State Unimployment Insurance	11.13%		6.33	\$	9.49	\$	12.65	Contractor provide rate.
e. EMAC - MA Unemployment Health Insurance	0.48%	1	0.27	\$	0.41	\$	0.55	Fixed State Rate
f. MA Workforce Training Fund	0.056%		0.03	\$	0.05	\$	0.06	Fixed State Rate
g. Workers Compensation	7.96%	l '	4.52	\$	6.79	\$	9.05	
h. General Liability	0.00%	i .	-	\$	-	\$	-	
i. Umbrellia	0.00%		-	\$	-	\$	-	
j. Auto	0.00%	\$	-	\$	-	\$	-	
k. Sick Time	1.98%	\$	1.13	\$	1.13	\$	1.13	MGL c149 §§ 148C & 148D
			-	Ļ	-			
(3). Burden Subtotal	30.01%	TOTOGOM	17.06	\$	25.02	\$	32.99	
Small Tools	1.50%	\$	-	\$	-	\$	-	Supplemental cost
Other (payment bonds, performance bonds, etc.)	2.00%		N/A		N/A	-	N/A	Supplemental Cost @ end of pr
TOTAL HOURLY RATE (Total DIRECT Labor Hourly Rate + Burden)		\$	113.42	\$	150.14	\$	186.53	=(1) + (2) +(3)

1 Costs for (	Overtime and Double Time are sam	ne as for Regular Time.		
	Rates certified by:	Joe Bravo	Company Name:	Brothers Electrical Corporation
		(print name)		
		Signature: Joe	Bravo	

PROJECT	NAME
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Brookline High School - Defferred Maintenance

PROJECT NO.

CONTRACTOR SUBCONTRACTOR N.B. Kenney Company, Inc. **Brothers Electrical Corporation**  CONTRACT NO.

Effective Dates: 9/1/2021 - 2/28/2022

#### HOURLY LABOR RATE WORKSHEET

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CLASSIFICATION: Electrician

			Prev	aili	ng Wage	Rate		
ltem	Rate	Reg	ular Time		vertime		uble Time	Notes
(1) Base Labor Rate		\$	62.65	\$	93.98	\$	125.30	rify with Prevailing Wage Rate or Contra
(2) Fringe Benefits					-		_	rify with Prevailing Wage Rate or Contra
a. Health Benefit Plan		\$	13.00	\$	13.00	\$	13.00	
b. Local 103 Pension Fund		\$	11.13	\$	11.13	\$	11.13	
c. Deferred Income Fund		\$	7.22	\$	7.22	\$	7.22	
d. Joint Apprenticeship and Training Fund		\$	0.85	\$	0.85	\$	0.85	·
e. Electrical Industry Labor- Mgmt Cooperation Trust		\$	5.50	\$	5.50	\$	5.50	·
f. National Labor Management Cooperation Committee		\$	0.01	\$	0.01	\$	0.01	
g. Administrative Maintenance Fund		\$	0.10	\$	0.10	\$	0.10	
h. National Electrical Benefit Fund		\$	1.41	\$	. 1.41	\$	1.41	
i. National Electrical Industry Fund/Service Charge		\$	0.30	\$	0.30	\$	0.30	
į.								
k.					-		-	
I.					-		-	
(2). Fringe Benefits Subtotal		\$	39.52	\$	39.52	\$	39.52	Note 1 below
			16:00:00				1000 to 0,000 to 0,00	
(1 + 2) Total DIRECT LABOR Hourly Rate		\$	102.17	\$	133.50	\$	164.82	Base Labor Rate (1) + Fringe
(1.2)		*				<u> </u>		Benefits (2)
(3). Burden: Taxes & Insurance				-		-		
	6.30%		3.95	\$	5.92	\$	7 80	Fixed Federal Rate
a. FICA - Social Security	1.45%	1 '	0.91	\$	1.36	\$		Fixed Federal Rate
b. FICA - Medicare	0.65%	I '	0.41	\$	0.61	1		Fixed Federal Rate
c. FUTA - Federal Unemployment	11.13%		6.97	\$ \$	10.46	\$		Contractor provide rate.
d. UI - MA State Unimployment Insurance	0.48%	l i	0.30	\$	0.45	\$		Fixed State Rate
e. EMAC - MA Unemployment Health Insurance	0.46%		0.04	\$	0.45	1		Fixed State Rate
f. MA Workforce Training Fund	7.96%		4.99	\$	7.48	\$	9.97	rixed State Nate
g. Workers Compensation			4.55		7,40	Ι	5.51	
h. General Liability	0.00%		-	\$	-	\$ \$	-	
i. Umbrellia	0.00%	ı	-	1		\$		
j. Auto	0.00%	1	1 24	\$	1 20		1 20	MGL c149 §§ 148C & 148D
k. Sick Time	1.98%	P	1.24	\$	1.20	٩	1.20	MGC 0149 99 1400 & 140D
(3). Burden Subtotal	30.01%	1 \$	18.80	\$	27.54	\$	36.32	
Small Tools	1.50%	4	0.94	سسخ	1.41			Supplemental cost
Other (payment bonds, performance bonds, etc.)	2.00%		N/A	+ -	N/A	╫	N/A	Supplemental Cost @ end of proje
1 * * *	I 2.00%	⊢		-	162.44			1 ''
TOTAL HOURLY RATE (Total DIRECT Labor Hourly Rate + Burden)		\$	121.91	\$	102.44	\$	203.02	=(1) + (2) +(3)
<sup>1</sup> Costs for Overtime and Double Time are same as for Regular Time.								
Rates certified by: Joe Bravo	Co	mpa	ny Name:		Brothe	rs El	ectrical Co	poration
(print name)								
Signature:	Joe Brav	0-						





## JOINT CONFERENCE COMMITTEE

#### **ELECTRICAL CONSTRUCTION INDUSTRY**

**GREATER BOSTON** 

106 River Street • West Newton, MA 02465 • 617-969-2521 • 877-NECAIBEW

#### **WAGE RATE MEMORANDUM**

TO:

All Signatories: Principal Inside Agreement

INSIDE

FROM:

Local Union 103, IBEW and Boston Chapter, NECA

SUBJECT:

Electrical Workers - Wage Rates, Fringe Benefits and Report Procedures

DATE:

September 1, 2020

EFFECTIVE: SEPTEMBER 1, 2020 - FEBRUARY 28, 2021

	TOTAL (1)	WAGE		Contributions								
	PACKAGE	RATE	HBP	PEN	DI	JATF	EILMCT	NLMCC	AMF	NEBF	\SC (1)	
GEN. FOREMAN:	\$104.33	\$65.34	13.00	10.88	7.22	0.82	5.00	0.01	0.10	1.96	0.39	
FOREMAN:	98.73	59.90	13.00	10.88	7.22	0.82	5.00	0.01	0.10	1.80	0.36	
JOURNEYMAN:	93.11	54.45	13.00	10.88	7.22	0.82	5.00	0.01	0.10	1.63	0.33	
APPRENTICES:												
1st Period(A) 40%	\$41.36	21.78	13.00	-	-	0.82	5.00	0.01	0.10	0.65	0.13	
2nd Period(B) 40%	41.36	21.78	13.00	-	-	0.82	5.00	0.01	0.10	0.65	0.13	
3rd Period(C) 45%	58.30	24.50	13.00	10.88	3.25	0.82	5.00	0.01	0.10	0.74	0.15	
4th Period(D) 45%	58.30	24.50	13.00	10.88	3.25	0.82	5.00	0.01	0.10	0.74	0.15	
5th Period(E) 50%	61.47	27.23	13.00	10.88	3.61	0.82	5.00	0.01	0.10	0.82	0.16	
6th Period(F) 55%	64.63	29.95	13.00	10.88	3.97	0.82	5.00	0.01	0.10	0.90	0.18	
7th Period(G) 60%	67.79	32.67	13.00	10.88	4.33	0.82	5.00	0.01	0.10	0.98	0.20	
8th Period(H) 65%	70.95	35.39	13.00	10.88	4.69	0.82	5.00	0.01	0.10	1.06	0.21	
9th Period(I) 70%	74.12	38.12	13.00	10.88	5.05	0.82	5.00	0.01	0.10	1.14	0.23	
10th Period(J) 75%	77.30	40.84	13.00	10.88	5.42	0.82	5.00	0.01	0.10	1.23	0.25	

EFFECTIVE: MARCH 1, 2021 - AUGUST 31, 2021

	TOTAL (1)	WAGE				Co	ntributions	, 			NEIF
	PACKAGE	RATE	HBP	PEN	DI	JATF	EILMCT	NLMCC	AMF	NEBF	\SC (1)
GEN. FOREMAN:	\$106.29	\$66.50	13.00	11.13	7.22	0.83	5.50	0.01	0.10	2.00	0.40
FOREMAN:	100.57	60.95	13.00	11.13	7.22	0.83	5.50	0.01	0.10	1.83	0.37
JOURNEYMAN:	94.86	55.41	13.00	11.13	7.22	0.83	5.50	0.01	0.10	1.66	0.33
APPRENTICES:											
1st Period(A) 40%	\$42.26	22.16	13.00	-	-	0.83	5.50	0.01	0.10	0.66	0.13
2nd Period(B) 40%	42.26	22.16	13.00	-	-	0.83	5.50	0.01	0.10	0.66	0.13
3rd Period(C) 45%	59.50	24.93	13.00	11.13	3.25	0.83	5.50	0.01	0.10	0.75	0.15
4th Period(D) 45%	59.50	24.93	13.00	11.13	3.25	0.83	5.50	0.01	0.10	0.75	0.15
5th Period(E) 50%	62.72	27.71	13.00	11.13	3.61	0.83	5.50	0.01	0.10	0.83	0.17
6th Period(F) 55%	65.93	30.48	13.00	11.13	3.97	0.83	5.50	0.01	0.10	0.91	0.18
7th Period(G) 60%	69.15	33.25	13.00	11.13	4.33	0.83	5.50	0.01	0.10	1.00	0.20
8th Period(H) 65%	72.36	36.02	13.00	11.13	4.69	0.83	5.50	0.01	0.10	1.08	0.22
9th Period(I) 70%	75.57	38.79	13.00	11.13	5.05	0.83	5.50	0.01	0.10	1.16	0.23
10th Period(J) 75%	78.80	41.56	13.00	11.13	5.42	0.83	5.50	0.01	0.10	1.25	0.25

<sup>1)</sup> NEIF\SC excluded from total package. 2) See Page 2 for report procedures.

TOTAL   WAGE   NEIF   NEW   NEW
PACKAGE RATE HBP PEN DI JATF EILMCT NLMCC AMF NEBF \SC (1) EFFECTIVE: SEPTEMBER 1, 2021 - FEBRUARY 28, 2022  JOURNEYMAN 96.36 56.84 13.00 11.13 7.22 0.85 5.50 0.01 0.10 1.71 0.34 EFFECTIVE: MARCH 1, 2022 - AUGUST 31, 2022  JOURNEYMAN 98.11 58.04 13.00 11.13 7.22 0.87 6.00 0.01 0.10 1.74 0.35 EFFECTIVE: SEPTEMBER 1, 2021 - FEBRUARY 28, 2022
EFFECTIVE: SEPTEMBER 1, 2021 - FEBRUARY 28, 2022  JOURNEYMAN 96.36 56.84 13.00 11.13 7.22 0.85 5.50 0.01 0.10 1.71 0.34  EFFECTIVE: MARCH 1, 2022 - AUGUST 31, 2022  JOURNEYMAN 98.11 58.04 13.00 11.13 7.22 0.87 6.00 0.01 0.10 1.74 0.35  EFFECTIVE: SEPTEMBER 1, 2021 - FEBRUARY 28, 2022
EFFECTIVE: MARCH 1, 2022 - AUGUST 31, 2022         JOURNEYMAN       98.11       58.04       13.00       11.13       7.22       0.87       6.00       0.01       0.10       1.74       0.35         EFFECTIVE: SEPTEMBER 1, 2021 - FEBRUARY 28, 2022
JOURNEYMAN 98.11 58.04 13.00 11.13 7.22 0.87 6.00 0.01 0.10 1.74 0.35 EFFECTIVE: SEPTEMBER 1, 2021 - FEBRUARY 28, 2022
EFFECTIVE: SEPTEMBER 1, 2021 - FEBRUARY 28, 2022
JOURNEYMAN 99.61 59.48 13.00 11.13 7.22 0.89 6.00 0.01 0.10 1.78 0.36
EFFECTIVE: MARCH 1, 2023 - AUGUST 31, 2023
JOURNEYMAN 101.36 60.67 13.00 11.13 7.22 0.91 6.50 0.01 0.10 1.82 0.36
NEIF\SC excluded from total package.
0.04100
<u>CONTRIBUTIONS</u> <u>as of 9/1/20</u> (13.00 parks)
HBP Health Benefit Plan \$13.00 per hour
PEN Local 103 Pension Fund \$10.88 11.13 per hour DI Deferred Income Fund See breakdown for applicable rate
• •
· · · · · · · · · · · · · · · · · · ·
AMF Administrative Maintenance Fund* \$ 0.10 0.10 per hour*  NEBF National Electrical Benefit Fund 3% of gross payroll
NEIF\SC National Electrical Industry Fund\Service Charge*  0.6% of gross payroll*
* Capped at 150,000 hours per year
DEDUCTIONS:
WORKING ASSESSMENT (for all workers): \$ 1.28 per hour
COPE\PAC Deduction (voluntary) \$ 0.04 per hour
HOLIDAY\VACATION FUND General Foremen \$ 1.25 per hour
Foremen \$ 1.25 per hour
Journeyman Wiremen \$ 1.25 per hour
Apprentices 1st Period(A) n/a per hour
2nd Period(B) n/a per hour
3rd Period(C) \$ 0.56 per hour
4th Period(D) \$ 0.56 per hour
5th Period(E) \$ 0.63 per hour
6th Period(F) \$ 0.69 per hour
7th Period(G) \$ 0.75 per hour
8th Period(H) \$ 0.81 per hour
9th Period(I) \$ 0.88 per hour
10th Period(J) \$ 0.94 per hour

#### MONTHLY REPORTING PROCEDURES

- All employers are required to utilize the online "iRemit" reporting system. To enroll, contact the Trust Fund Office at 617-288-5999.
- Reports should be filed and payments made not later than 15 calendar days following the end of each calendar month.



## **Change Order Proposal Cost Summary**

Job Number: 020-025				ol - Defferred M	
Proposed Change Order Request No.: PCO-013-R1				et, Brookline Ma	
Description of Change: Price to perform the value a new unit.	vork outlined ir	Bulletin#8	3 which is 1	o replace the e	xisting MAU with
Exclusions:	-	LABO	R COSTS		MATERIALS & EXPENSES
Labor - DESCRIPTION OF COSTS:	HOURS	DIRECT		TOTAL	
Engineering	4	\$96.13	\$15.80	\$447.72	
Pipefitter - Journeymen REGULAR RAT		\$96.13	\$15.80	\$8,954.40	
Pipefitter - Foreman REGULAR RAT		\$104.46	\$17.19	\$9,732.00	
Pipefitter - Supervisor REGULAR RAT		\$107.88	\$18.02	\$0.00	
Pipefitter - Supervisor Overtime @		1 4101.00	V10.02	0.00	
Pipefitter - Journeymen Overtime @		1	7 - 4	0.00	
Pipefitter - Foreman		1 12 12 14		0.00	
Pipefitter - Supervisor		1 1 1 2 2 2		0.00	
Trucking		1 200		0.00	
	LABOR	TOTAL:			\$
Consumables	D.DOI.		L	0.0%	0.00
Material Costs				0.070	3,200.00
Greenheck Model IXG-P124-H32-MF-0 In-Direct Fired Make-	Un Air Unit - S	ee attached	l Buckley (	Duote	22,345.00
Crodinical Media Media Ind.	<u> </u>			d Spreadsheet	0.00
MATER	IAL & EQUIPN			a oproducitor	25,545.00
Sales Tax		(if applicat			20,0-10.00
Outco Tax		AL MATER	<del></del>	IFR:	25,545.00
	101		ABOR TO		19,134.12
			L RAW C		44,679.12
Greenwood Industries - Patch old curb and flash in new curb	- see attached	quote			2,596.88
Metal-On Sheet Metal Price (see attached):					3,830.00
Brothers Electrical - See attached					2,122.12
North American Crane and Rigging - remove old unit and plants and plants are sense are sense and plants are sense are sense are sense and plants are sense are sense are sense are sense are sense and plants are sense are sense are sense and plants are sense are sen	ce new unit.				6,690.00
Milharmer - Balancing Quote - See attached					1,640.00
Viking Controls - (see attached)					3,255.00
Viking Industries - Insulation - see attached		ASSESSED LES		0.4.7.4.1	2,140.00
SUMMARY		Subc	ontractor	Sub-Total	22,274.00
	B. Kenney Dir	rect Costs			44,679.12
NBK Overhead & F	=		-	15%	6,701.87
	contractor Di	_	-	1070	22,274.00
Subcontractor Overhead & F			-	10%	2,227.40
NBK Overhead & Prof		_	-	5%	1,113.70
				TOTAL COST	76,996.09
Credit for Maintenance work include in base bid on MAU-	-1:				(4,050.00)
		Re	vised Pric	e with Credit:	72,946.09
				1.5%	1,094.19
Bond Costs at 1.5%:				1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
Bond Costs at 1.5%:	H-1	Rou	ınd off to	nearest dollar	(0.28)
Bond Costs at 1.5%:	Т				(0.28) <b>\$74,040.00</b>
Bond Costs at 1.5%:  This PCO labor is based on: YES Straight Time	Т		CE FOR T	nearest dollar	

This proposal is based on current market costs and conditions.

If the approval of this change is delayed to a point where changes occur in our costs and/or conditions,
we reserve the right to cancel or modify this change order accordingly.

Submitted By: Robert W. DejadonSignature: Robert W. DejadonDate:1/24/2022

## Buckley Associates, Inc.

385 King Street - P.O. Box 1410 Hanover, MA 02339 (781)-878-5000 Fax (781)-871-9435



## QUOTATION

Quote Number

29768

Bid Date

01/12/2022

Salesperson

**JERIMY** 

- -

Page 1 of 1

Robert Dejadon

N.B. Kenney Company, Inc.

68 Barnum Road

Devens, MA 01432

Project

Brookline High School UAB

Location

Tappan Street Brookline, MA

Plan Date

N/A

Engineer

RFS - Laconia

Addendum:

Change

QTY	PRODUCT	DESCRIPTION	PRICE
1	Greenheck Model IXG -P124-H32-MF-0	In-Direct Fired, 8 to 1 Furnace Control Aluminum Mesh Weatherhood, MERV 8 Filters, Inlet Damper, Galvanized Coating, Double Wall Construction, VFD Supply FanControl (2 Speed), Hinged Access, Left Hand Access Side, Control Center, Freeze Protecton, Inlet Air Sensor, Terminal Srip for Controls and Temperature Controlled Discharge	\$22,345.00
1	Roof Curb (Standard)	14" High Standard Roof Curb	Incl
1	Factory Start-up	Factory Start-Up if Required	\$1,200.00
	The above quote represents a sta	ndard build and ship time of approximately 10 weeks.	

Greenheck offers a "Quick Build & Ship" Program for this unit. Once Approved & Released the build & ship time is approximately 10 days for an additional 35% cost which includes shipping:

\$7,593.00

#### **Mechanical Notes**

Unless Specifically noted, this quotation excludes any rigging, labor to assemble or install, start-up or supervision of start-up and owner instruction. Also, unless specifically noted, all belt driven mechanical equipment is supplied with one set of belts and if applicable, one set of filters. Roof curbs and vibration isolation are non-seismically rated unless specifically noted. Starters are not included unless specifically stated. Factory-Authorized services can be provided if required for the price statetd in this quote. **Terms & Conditions:** 

The above quotation is based on standard factory lead times and a one time release unless specifically noted. Any changes or cancellations made to orders after release may be subject to additional fees. The above quotation is valid for 30 days from the date of the quote. Prices do not include local sales tax. All standard terms and conditions of Buckley Associates or the manufacturer responsible for the billing applies (Copy provided upon request).

**OPTION A:** 

**QUOTATION TOTAL - STANDARD SHIPPING:** 

\$22,345.00

**OPTION B:** 

**QUOTATION TOTAL - QUICK BUILD AND SHIP:** 

\$29,938.00

**FACTORY START-UP IF REQUIRED:** 

\$1,200.00



Printed Date: 12/01/2021 Job: BROOKLINE MAU Mark: MAU-1 INDIRECT FIRED

Model: IGX-P124-H32-MF-O

## IGX-P124-H32-MF-O

#### **Unit Performance**

Design Conditio	ns					
	Sun	mer			Outdoor Air	Min Supply Airflow
Elevation (ft)	DB (°F)	WB (°F)	Winter (°F)	Supply (CFM)	(CFM)	Airflow (CFM)
30	90.8	76.2	0.0	7,000	7,000	3,500

Unit	<b>Specifications</b>					
Qty	Weight (lb)	Cooling Type	Heating Type	Unit Installation	Unit ETL Listing	Furnace ETL Listing
1	2,246 (+/- 5%)	None	Indirect Gas Furnace	Outdoor	UL / cUL 1995	ANSI Z83.8 / CSA 2.6

Configuration				
Unit Orientation	Unit Configuration	Outdoor Air Intake	Return Air Intake	Supply Air Discharge
Horizontal	Variable Volume	End	-	Bottom

-	Heating Specifi	cations									
	Gas	Gas Pressure		Capacity (MBH)		Temperature Rise			Performance		
	Туре	Type	Min (in. wg)	Max (PSI)	Input	Output	Min (°F)	Max (°F)	Turndown	EAT (°F)	LAT (°F)
	Indirect Gas Furnace	Natural	6	0.5	600.0	480.0	7.9	63.5	8:1	0.0	63.5

Air Perform	Air Performance										
	Total	External SP	Total SP (in. wg)		Operating	Fan					
Туре	Volume (CFM)	(in. wg)		RPM	Power (hp)	Qty	Type	Size (in.)	Drive-Type		
Supply	7,000	1.65	2.448	1248	5.07	1	Mixed Flow	30	Direct-Drive		

Motor Specification	ns				
Motor	Qty	Size (HP)	Enclosure	Efficiency	RPM
Supply Fan Motor	1	10	ODP	NEMA Premium	1725

	Electrical Specifications			
	Power Supply	Rating (V/C/P)	MCA (A)	MOP (A)
-	Unit	460/60/3	19.4	30





#### **CONSTRUCTION FEATURES AND ACCESSORIES**

Unit	
Unit Installation - Indoor or Outdoor	Std
Unit Construction - Double Wall	X
Wall Insulation - 1in. fiberglass - Heat source on	X
Base Insulation - 1in. fiberglass - entire unit base pan	Std
Paneled Bottom - Sheet metal liner for base insulation	
Corrosion Resistant Fasteners	Std
Access and Connections - Left side when facing intake	X
Service Access - Hinged access doors	Х
Unit Finish - G90 Galvanized	X
Finish Color	
Supply Fan - Direct-drive, mixed flow plenum	X
Supply Fan and Motor Vibration isolation - Neoprene	X
Controls	
Unit Controls - Terminal strip	X
Remote Panel	
BMS Communication	
BMS Protocol	
Temperature Control - Discharge control	X
Supply Fan VFD - VFD by factory	X
Supply Fan Control - Two Speed	X
Unoccupied Mode (Night Setback)	
Control Accessories	
Remote display	
Heating Inlet Air Sensor	X
Cooling Inlet Air Sensor	
Dirty Filter Switch	
Fire Stat Type III (Ships loose)	
120V/24V Smoke Detector (Ships loose)	
Inlet Damper End Switch	
External Cooling Lockout Relay	
Freeze Protection (Supply Air Low Limit)	X
Auxiliary Supply Starter Contacts	
Auxiliary Exhaust Starter Contacts	
Airflow Proving Monitoring Contact	

Accessories Factory Installed, Lockable, NEMA 3R Disconnect Weatherhood - Aluminum Mesh filtered Supply Air Filters - 2" MERV 8, 20x25x2 - (10)	Std
Weatherhood - Aluminum Mesh filtered	
Supply Air Filters - 2" MERV 8, 20x25x2 - (10)	X
	X
Outdoor Air Inlet Damper - Low leakage	Χ
Supply Air Outlet Damper	
Return Air Damper	
Diffuser	
Roof Curb - GPI	Х
Combination Curb	
Electrofin Coil Coating	
Fan Bearing Extended Lube Lines	
Inlet Damper Module	YMY.
Spare Belts	
Spare Filters	
Motor with Shaft Grounding	
Service Outlet	
Service Lights	
Gas Heating Accessories	
Furnace Venting - Outdoor	Χ
	Std
Furnace Venting Method - Standard	X
Concentric Venting Adapter	
Direct Spark Ignition	Std
Flame Sensing - Flame rod	Std
Heat Exchanger Material - Stainless steel	X
	Х
	Std
External Gas Pressure Regulator (Ships loose)	
DDC Assisted Furnace Commisioning	X
Warranty Options	
Unit Warranty - 1 Year	Χ
5 Year Compressor Warranty	
5 Year Heat Exchanger Warranty	
10 Year Heat Exchanger Warranty	
25 Year Furnace HX Warranty	ASS.

Standard Option	Std
Not Included	
included	X

Notes

Damper(s) supplied are low leakage, motorized VCD-23 (leakage rate of 3 CFM/ft^2 @ 1 in.wg), Class 1A



Printed Date: 12/01/2021 Job: BROOKLINE MAU Mark: MAU-1 INDIRECT FIRED

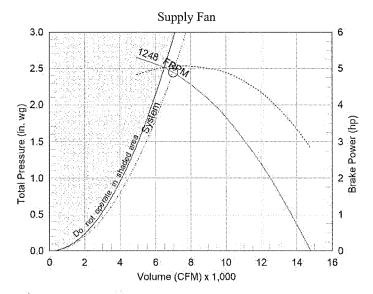
Model: IGX-P124-H32-MF-O

#### **Fan Charts And Performance**

Supply Fan Pe	rformance								
Total Volume	External SP	Total SP		Operating	Mo	tor		Fan	
(CFM)	(in. wg)	(in. wg)	RPM	Power (hp)	Qty	Size (HP)	Qty	Type	Drive-Type
7,000	1.65	2.448	1248	5.07	1	10	1	Mixed Flow	Direct

Pressure Drop (ii	n. wg)	Part of the				
Weatherhood	Filter	Damper	Cooling	Heating	External	Total
0.102	0.053	0.055	-	0.588	1.65	2.448

Sound	Sound Performance in Accordance with AMCA											
Sound Power by Octave Band								Lwa	dBA	Sones		
62.5	125	250	500	1000	2000	4000	8000					
83	80	80	0	0	80	81	74	87	76	26		



- Operating Bhp point Operating point at Total External TP
- Fan curve
- - - System curve
- ----- Brake horsepower curve



Printed Date: 12/01/2021 Job: BROOKLINE MAU Mark: MAU-1 INDIRECT FIRED

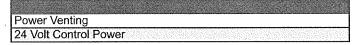
Model: IGX-P124-H32-MF-O

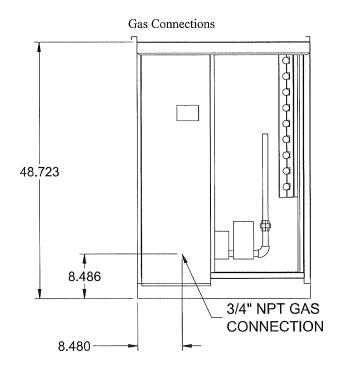
## **Heating Specifications**

Heating Perform	nance									
Туре	Coo	Gas Pressure		Capacity (MBH)		Temperature Rise			Performance	
	Gas Type	Min (in. wg)	Max (PSI)	Input	Output	Min (°F)	Max (°F)	Turndown	EAT (°F)	LAT (°F)
Indirect Gas Furnace	Natural	6	0.5	600.0	480.0	7.9	63.5	8:1	0.0	63.5

Heating Information				
Heat Exch. Materia	Venting	Venting Method	Gas Pressure Regulators	Heat Exchanger Warranty
Stainless Steel	Outdoor	Standard	-	-

Unit Details
ANSI Standard Z83.8 and CSA 2.6
Direct Spark Ignition
Stainless Steel Heat Exchanger Tubes







ELEVATION VIEW

66.384

44.049

38.192

25.750

48.678

48.723

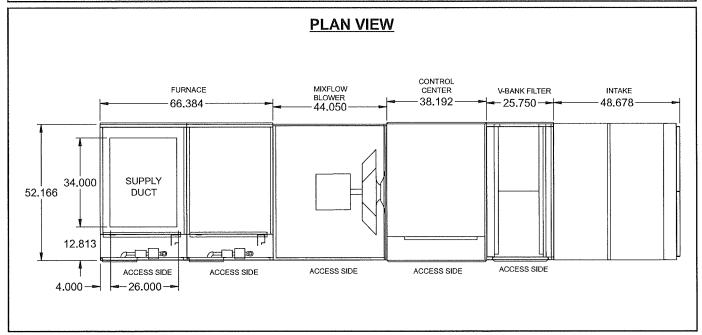
Notes - Elevation View

Standard configuration for unit access is on the right-hand side, when looking into the unit intake in the direction of airflow.

Order of unit sections is from intake of unit to discharge of unit.

Sections included on this unit: Weatherhood Section, Filter Section, Control Center Module Section, Blower Section, Furnace 1 Section, Furnace 2 Section

Insulation: Double Wall, from Furnace Section through end of unit.

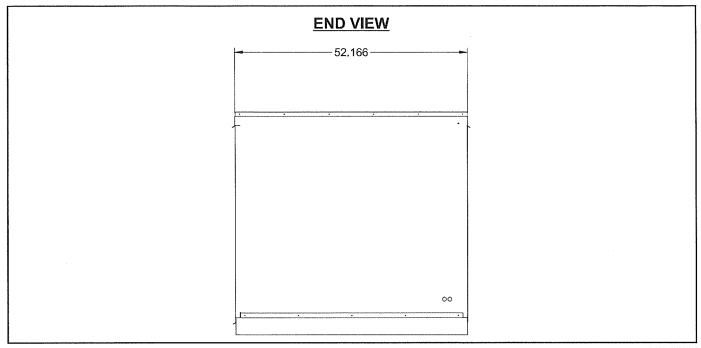


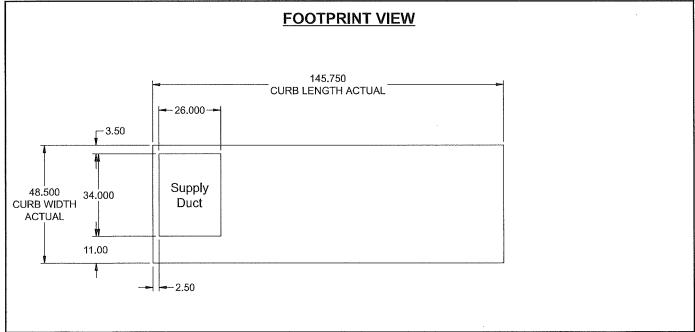
Notes - Plan View

Standard configuration for unit access is on the right-hand side, when looking into the unit intake in the direction of airflow.









Notes - Footprint View

Minimum Roof Opening: The minimum roof opening size is the illustrated duct diameter plus 0.25 in. on all sides. For example: If the duct size is 14 x 14 in. square, the minimum roof opening size is 14.5 x 14.5 in. square.

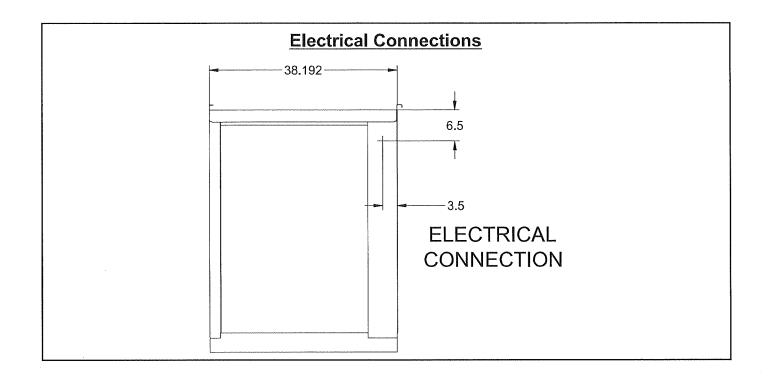
Maximum Roof Opening: There must be a minimum perimeter of 1.75 in. between the roof opening and the roof curb. For example: If the roof curb is 75 x 30 in. square, the maximum roof opening is 71.5 x 26.5 in. inches square.

The weatherhood and filter sections of the make-up air unit extend beyond the curb. This is by design, to prevent water infiltration.



Printed Date: 12/01/2021 Job: BROOKLINE MAU Mark: MAU-1 INDIRECT FIRED

Model: IGX-P124-H32-MF-O





## **Clearance Specifications**

Recommended Minimum Co	mbustible Clearances			
	Floor (in.)	Top (in.)	Sides (in.)	Ends (in.)
Indirect Fired Units	0	0	Ô	0

#### Notes - Combustible Clearances

Clearance to combustibles is defined as the minimum distance required between the heating source and the adjacent combustible surfaces to ensure the adjacent surface's temperature does not exceed 90 F above the ambient temperature.

Reference venting guidelines for combustion blower clearances.

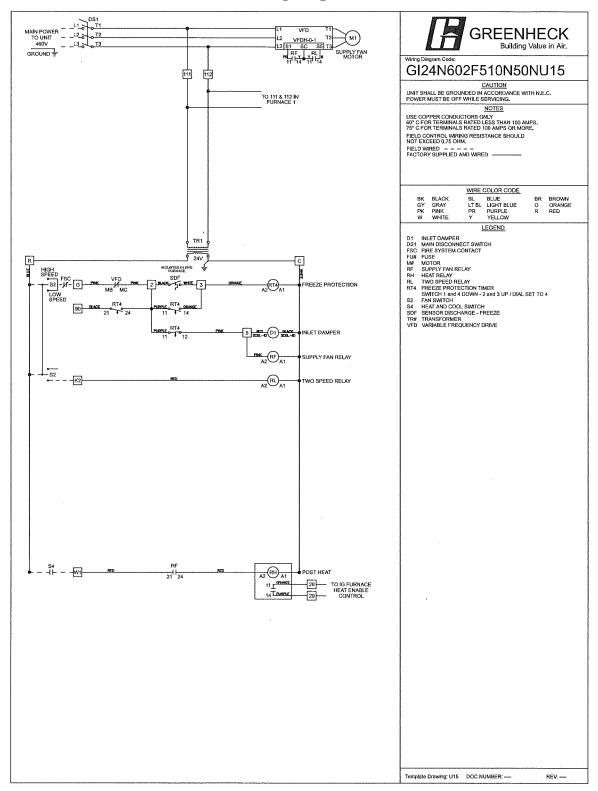
Recommended Minimum Service Clearances	
Housing 32 and less (in.)	Housing 35 and higher (in.)
42 on the controls side of the unit	N/A

#### Notes - Service Clearances

To ensure ample space for component removal (evaporative cooling media, coils, filters, etc.), service clearances should be 6 in. wider than the width of the module itself.



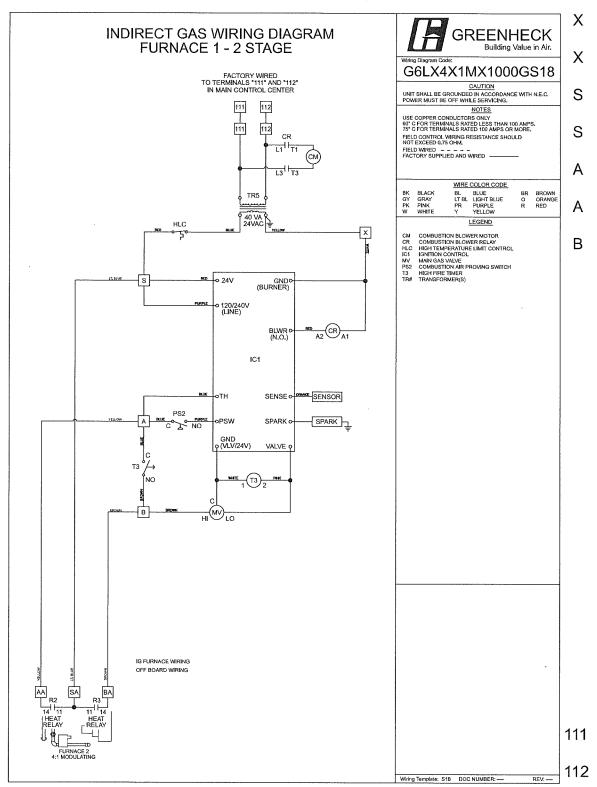
#### **Wiring Diagram**



Manufacturer reserves right to change, alter, or improve this product at any time.



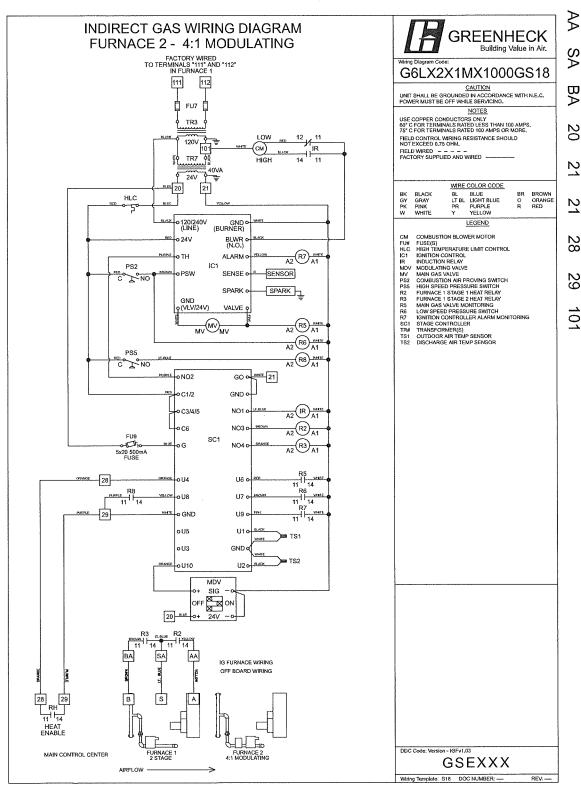
#### **Furnace Wiring Diagram**



Manufacturer reserves right to change, alter, or improve this product at any time.



## **Furnace 2 Wiring Diagram**



Manufacturer reserves right to change, alter, or improve this product at any time.



## **Corner Weights**

512 lb		603 lb
	.Unit:	
520 lb		612 <b>l</b> b

Notes

Estimated corner weights are shown looking down on unit and airflow from right to left. Weights are applied at the base of the unit. Images not drawn to scale.



#### **SEQUENCE OF OPERATIONS**

#### **Unit Controls**

The unit shall be provided from the factory with:

- · 24VAC Transformer
- Terminal Strip
- Supply fan VFD
- · Factory mounted and wired outdoor air inlet damper with actuator

#### Field Provided Control Requirements

The following field provided control signals must be provided for proper operation of the unit (Reference the unit wiring diagram for additional information):

- Supply fan enable Contact closure between R and G (24VAC)
- Supply fan VFD speed signal Contact closure between R and K2

#### **Unit Start-Up Sequence**

- · Supply Fan Enable Is Received
- · Outdoor air inlet damper actuator is energized
- · Supply Fan Is Enabled

#### Supply Fan Sequence

The unit has been provided with a factory mounted variable frequency drive (VFD). The variable frequency drive shall control the supply fan speed as indicated by the following sequence:

#### Two Speed Control

The status of a contact closure shall (field provided and wired) landed to terminals in the unit control center shall signal the VFD to one of two discrete set points.

#### **Heating Control**

A heating enable signal must be present and the supply fan must enabled before the unit will enable heating.

#### **Heating Inlet Air Sensor (Heating Lockout)**

The heating will be locked out when the outside air temperature is above the heating inlet air sensor set point (typical 65 F, adj.)

#### **Indirect Gas Fired Heating (Modulating Control)**

A Programmable Logic Controller (PLC) furnace controller shall modulate the furnace to maintain a supply air temperature set point. The controller shall include a LCD display and keypad for changing set points and monitoring furnace operation. A built-in commissioning sequence assists with proper and accurate start-up. This controller is responsible for furnace control only and does not control any other function of the unit. Additionally it has no Building Management System (BMS) communication capability. The supply temperature set point shall be controlled as follows:

#### **Discharge Temperature Control**

The heating supply temperature set point must be set locally at the controller.

#### **Building Freeze Protection**

If the supply air temperature drops below 35 F for 300s (adj.), the supply fan will be disabled. Cycling the fan enable will reset the timer. This sequence is intended to prevent the unit from supply cold air into the building.



#### Warranty Statement for Make-Up Air

#### **Unit Warranty**

Greenheck warrants the equipment to be free from defects in material and workmanship for a period of 1 year (standard) from the shipment date.

#### Heat Exchanger Extended Warranty

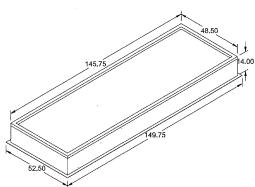
Greenheck warrants the stainless steel heat exchanger to be free from defects in material and workmanship for a period of 25 years from the shipment date.

#### Warranty Notes

Any component which proves defective during the warranty period will be repaired or replaced at Greenheck's sole option when returned to our factory, transportation prepaid. All warranties do not include labor costs associated with troubleshooting, removal, or installation. Greenheck will not be liable for any consequential, punitive, or incidental damages resulting from use, repair, or operation of any Greenheck product. These warranties are exclusive and are in lieu of all other warranties, whether written, oral, or implied, including the warranty of merchantability and the warranty of fitness for a particular purpose. No person (including any agent or salesperson) has authority to expand Seller's obligation beyond the terms of this warranty, or to state that the performance of the product is other than that published by Seller.

As a result of our commitment to continuous improvement, Greenheck reserves the right to change specifications without notice.





Model: GPI

#### Roof Curb

#### **Standard Construction Features:**

- Roof Curb fits between the building roof and the fan mounted directly to the roof support structure - Constructed of either 18 ga galvanized steel or 0.064 in. aluminum - Straight Sided without a cant - 2 in. mounting flange - 3 lb density insulation - Height - Available from 12 in. to 42 in. as specified in 0.5 in. increments. Notes: - The maximum roof opening dimension should not be greater than the "Actual" top outside dimension minus 2 in.. - The minimum roof opening dimension should be at least 2.5 in. more than the damper dimension or recommended duct size. - The Roof Opening Dimension may or may not be the same as the Structural Opening Dimension. - Damper Tray is optional and must be specified. Tray size is same as damper size. - Security bars are optional and must be specified. Frames and gridwork are all 12 ga steel. Gridwork is welded to the frame and the frame is welded to the curb.

#### General

			Sizing	Undersizing	Weight	Shipped
Tag	Qty	Model	Method	(in.)	(lb)	Assembled
	1	GPI-50 x 147.25	Nominal	1.5	147	No

#### **Dimensions**

	Nominal	Nominal	Actual	Actual		
Curb	Outside	Outside	Outside	Outside	Flange	Flange
Height	Width	Length	Width	Length	Width	Length
(in.)	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)
14	50	147.25	48.5	145.75	52.5	149.75

#### Accessories

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•			
	Security		Insulation	
Material	Bars	Liner	(in.)	
Galvanized	No	No	1	İ

## Greenwood Industries, Inc.

## **Architectural Metal and Roofing Contractors**

December 21, 2021

To:

Frank Didonato

NB Kenney

Project:

Brookline High School

Brookline, MA

RE:

Greenwood Industries Change Order Proposal #1

Greenwood Industries, Inc. hereby proposes the following for work added to base contract.

Qty	Item	Unit cost	Unit	Material Extension	Labor Extension
1	Flashing materials	\$500.00	lump Sum	\$750.00	
16	Flash MAU - 1	\$112.50		\$750.00	\$1,800.00 \$ 1,800.00
		Sales tax Labor	0.00%	\$ 46.88 \$ 1,800.00	+
		Materials		\$ 750.00	+
		Hoisting		\$ -	+
		Subtotal		\$ 2,596.88	+
		OH & P	15%	\$ 389.53	+
		Total		\$ 2,086.41	

10% O&P allowed: \$259.69

Revised Price:\$2,856.57



325 New Boston St Woburn, Ma 01801 P. 781-305-3467 F. 781-305-3544

#### **Quotation Sheet**

To: All Bidders Date: 12-22-21

Job name & location: Brookline HS MUA Replacement

Quoted by: Robert Spengler

Cutting/Patching (Walls or Floors)

Our price to fabricate, furnish and / or install per the below scope, is:

Price based on drawings dated: 12-09-21 Base: \$3,830.00 Ductwork - Fabricate or Furnish & Install G-90 Galvanized Ductwork Rectangular Duct Spiral Pipe & Fittings Aluminum Ductwork Oval Pipe & Fittings Black Iron Ductwork Stainless steel (non-welded) Double Wall Duct Lined Duct (1" thick, where shown only) Breeching/Flues Flexible Duct/Pipe Access Doors/Volume Dampers Other Work Included Coordination Drawings Seismic restraints (ductwork only) ☐ Duct Demolition (Cut & Drop only) Vibration isolation (ductwork only) Duct Leak Testing Other: Permit & Fees Other: **Materials & Equipment Furnish** Install Furnish Install & Install & Install Only **Only** AHU (50/50 Labor Only) Motorized Dampers FCU's (50/50 Labor Only) **Exhaust Fans** MAU (50/50 Labor Only) Registers, Grilles & Diff. Reheat Coils Fire Dampers **Smoke Detectors** Supply Fan **ERV** EAV's VAV's **Duct Filter** Mechanical Louvers Other: **Exclusions** Duct Cleaning Kitchen Hood Install Architectural Louvers ☐ Decontamination ☐ Disposal of Demo'd Material Payment & Performance Bond Architectural Access Doors ☐ Building Controls (Devices/Wiring) □ Premium Time Labor Quick Ship on Material □ Commissioning Core Drilling Extended Warranty ⊠Roofing Cranes / Rigging HVAC Test & Balance ⊠Scaffolding

☐ Insulation

## First-Tier Subcontractor COR Proposal Form

Sub-Contractor Name:	Brothers Electrical Corporation
COR Number	9
Date:	1/20/2022
Description of Work:	Bulletin # 8 - New Make Up Air Unit

ost of the Work				
Labor		Hrs	Rate	Total
Foreman - Added hours		12.00	\$102.17	\$1,226.04
Foreman - Credit hours		-8	-\$102.17	-\$817.36
Journeyman - Added Hours	Journeyman - Added Hours			\$2,312.64
Journeyman - Credit Hours		16.00	-\$96.36	-1,541.76
Total Add:				\$3,538.68
Total Cred	it:			-\$2,359.12
				\$0.00
		0.0		\$0.00
		0.0		\$0.00
TOTAL LABOR				\$1,179.56
Equipment	Qty	Unit	\$/Unit	Total
				\$0.00
				\$0.00
TOTAL EQUIPMENT				\$0.00
Materials	Qty	Unit	\$/Unit	Total
Fusible 60 A Amp 480 V-AC 3P Disconnect	1.0	1	\$1.00	\$402.49
Misc. mounting brackets & hardware	1.0	1	\$1.00	\$186.20
				\$0.00
				\$0.00
TOTAL MATERIALS				\$588.69
			_	
Supplemental Costs				
Health, Welfare & Benefits on Labor				\$0.00
Insurance & Payroll Taxes on Labor (30%)			30%	\$353.87
verhead and Profit				
Cost of Work excluding Sub-Tier Subcontractor	or Costs			\$2,122.12
10% Markup for Overhead and Profit om Item			10%	\$212.21
	·····			
otal				
SUB TOTAL AMOUNT				\$2,334.33
Tradal Inchesia - 1 50/ Prod Prod				69 33 4 33
Total Including 1.5% Bond Premium			l	\$2,334.33



33 Acorn Street, Suite 215 Providence, RI 02903

> T: 401-383-5428 F: 401-383-5433 www.nacranes.com

#### NORTHEAST DIVISION

January 9, 2022

Via Electronic Mail

Bob Dejeadon Vice President N.B. Kenney Company Inc 68 Barnum Road, Devens, MA (978) 849- 5200 Ext. 134 (978) 423- 0427 Rdejadon@nbkenney.com

#### RE: Brookline High School - MAU Replacement

Dear Mr. Dejadon:

NACR is pleased to present NB Kenney with the below unit price-based proposal for upcoming work at Brookline High School.

Thank you for your consideration on this project. Should you have any questions or comments, please do not hesitate to reach out to us. We look forward to the prospect of working together.

#### **MAU replacement:**

**Operated & Maintained Service** 

Grove GMK 5200 as a 140T or Similar w/ Operator, rigging foreman and signalman.

**Lifting Services:** 

\$3,840.00 per day.

\$670.00 per OT hour.

Oiler to assist as signalman:

No charge

Mobilization Services In & Out: (Round Trip Same Day)

\$2,500.00 counterweight loads

Mobilization Services OUT: (next day if applicable)

\$2,500.00 counterweight pick up (If applicable)\*

**DOT - Street Permits and Police Details:** 

Invoiced at cost plus 15%

**Lift Planning Services:** 

\$350.00 per plan

ESTIMATED TOTAL BASED ON (1) ONE (8) EIGHT HOUR DAY WITH ALL ORDER MINIMUMS: \$6,690.00\*

If next day pick up counterweights are needed \$2,500.00 will be invoiced to the customers account.



Insurance: This proposal includes NACR's standard insurance coverage. This includes a single occurrence limit of \$11,000,000.00 of liability coverage. Greater coverage limits may be available on a project-specific basis. Inquire with your Account Manager for a quote. Participation in any OCIP, CCIP, or certified payroll programs is NOT included in this pricing. NACR will complete initial enrollment paperwork for the purposes of confirming our exclusion from any such program, but participation in such program will be subject to additional charges on a per employee, per pay period basis.

#### **Payment Terms**

Terms: Full invoice payment due net 30 days from date of invoice, OAC.

NACR is pleased to offer an early pay discount program of 2% for payments received within 10 days of invoice date. NO RETAINAGE IS PERMITTED FOR ANY REASON. Delinquent accounts will be subject to interest charges at the maximum legal rate and all collections costs (including reasonable attorneys' fees) will be the responsibility of the client.

#### **Assumptions:**

- No delays by others.
- Clear site access and suitable ground conditions.
- Client-supplied information and data are completely accurate.

#### **Qualifications:**

- This proposal is subject to the Terms and Conditions of NACR's Standard Short-Term Service Agreement, which are incorporated by reference.
- Proposal is subject to availability and any applicable lead times.
- No taxes, where applicable, are included in this proposal.
- Overtime / double overtime will be invoiced per the applicable local union agreement.
- This is a unit price proposal based on performing all work during regular business hours.
- Each line item is billable at an eight (8) hour minimum each day.
- The structural integrity of all items lifted is to be guaranteed by the client.
- The structural integrity of all lift points and connections is to be guaranteed by the client.
- All rigging hardware and rigging / signal services to be provided by the client.
- Site shall be clear, compacted, and free from any underground concerns during mobilization, operation, and de-mobilization.
- All FAA permits shall be ordered and secured by the client.
- No FAA flag or FAA lighting is included in this proposal.
- All road closure permits and MOT, if required, shall be ordered and secured by the client.
- All traffic control, police details, barricades, etc. shall be ordered and secured by the client.
- All specialized permits, if required, shall be ordered and secured by the client.
- Client is responsible for all scheduling and down time expenses associated with inspections.
- NACR officials shall be given unobstructed site access for the purpose of safety inspections, staff evaluations, and any other purpose.
- All delays caused by others will be invoiced at time and material rates, including overtime and per diem as applicable.



- Client is responsible for any additional labor personnel or work rules imposed by local union agreements.
- This document contains proprietary pricing information intended only for the named recipient. Further dissemination of this proposal is prohibited.
- Pricing is firm for 30 days from proposal date.
- NACR reserves the right to make corrections and /or adjustments for clerical errors.
- This is BUDGETARY proposal formulated from preliminary, client-supplied information. Further review by members of the NACR technical team will be required prior to proceeding.
- NACR has relied upon client-supplied information in formulating its technical approach and price quotation. Any changed conditions or incorrect information (including but not limited to lift radii, lift dimensions, site conditions, weights, specifications, etc.) may require revisions to this proposal.
- This proposal includes only the specific services enumerated above. Any additional requirements can be quoted upon request. Work will proceed at client direction upon signed proposal.

Thank you for the opportunity to present this proposal. Please do not hesitate to contact us if you have any questions or if we can be of further assistance.

Respectfully Submitted,

/s/ Derek R. Moniz

**NORTH AMERICAN CRANE & RIGGING, LLC** 

Business Development Manager		
ACCEPTED BY:		
AUTHORIZED SIGNATURE	 DATE	
PRINT NAME		

## MILHARMER ASSOCIATES, INC.

534 New State Highway, Suite 3, Raynham, MA 02767 Office Phone# 508-823-8500 Office Fax# 508-823-8600

NEBB CERTIFIED AIR & HYDRONIC BALANCING

## TESTING, ADJUSTING AND BALANCING QUOTE

PROJECT AE	T NAME	Brookline H/S MA	∖U-1 Replacem		QUOTE DATE		
	CITY	Brookline		ATE MA Bulltin 8 Issu	PE ed with M2-0		O SPECS NOTED /9/21
CLIENT NAME	N.B. I	Kenney Company,	Inc.	С	омтаст Frank	k DiDonato	
CLIENT TEL	978-8	349-5200	CLIENT FAX	978-849-	5298		
		TOTAL TESTING,	ADJUSTING AND	BALANCING	QUOTE	<u>\$1,6</u>	<u>40</u>
COMMENT Our quote is is installed.		on providing pre-con	struction reading	gs as existing l	MAU and post <sup>-</sup>	TAB at unit wh	en replaced unit
1) Furnishing of 3) Pressure tes 5) All quoted w 7) Commission 9) Purchasing 11) If Milharme to our conti	of scaffo sting pip work is or ning or p of plans er arrives ract.	wing from this quote lding or lifts. ing systems or cleaning n normal hours unless programing of control programing of control programing of control program and specifications to poson a project that has be	g of strainers. noted. rograms. 8) Inderform our work. Deen scheduled an	4) Cleaning 6) Duct Leak door Air Quality 10) Preconstruct d it is not ready	ion readings are a minimum char	rs in air handling emo Unless Note ation, Sound and excluded unles ge of \$400.00 w	g units. ed. d Vibration Testing. ss noted.
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## **QUOTATION**

To:

N. B. Kenney Co., Inc.

Attn:

Frank DiDonato

Tel:

(978) 849-5200

Email:

fdidonato@nbkenney.com

From:

Karl Maseng

Date:

1/17/2022

Quotation #:

20-0450

#### **Project Name:**

**Brookline High School Deferred Maintenance - New MAU - Bulletin #8** 

Description of Work:

Viking Controls will provide the following:

**Bulletin 008** 

\$3,255.00

#### New MAU Includes:

- Demo of existing control wiring
- Installation of new control wiring
- Startup Coordination
- Integration to BMS via Bacnet MSTP communication
- Graphics and Control Drawings
- Commissioning

This Complete Price Will Be:

\$3,255.00

#### This Price Does Not Include:

- Power Wiring.
- Premium Time.
- Startup of equipment or controls not furnished by Viking Controls.

We are pleased to submit the above quotation for your consideration. Should you place an order be assured it will receive our prompt attention. This quotation is subject to the conditions as noted and is valid for 30 days. Thereafter, it is subject to change without notice.

Accepted:

Date: \_\_\_\_\_

Please sign and return acceptance when ordering

THANK YOU FOR YOUR BUSINESS.

# PO BOX 32 BARRINGTON, R.I. 02806 P 401-246-1855 F 401-246-1366

To:

N B Kenney Company, Inc.

Change Order

Date: 12/22/21

Ref #: Bulletin #008

Attn:

Robert Dejadon

Project Name:

Brookline High School - Deferred Maint.

Address

Description:

Roof Duct per Bulletin #008

The price to insulate the above stated work is as follows:

LABOR: \$108.82 x 176 \$870.56

MATERIALS: \$1,167.88

TOTAL \$2,038.44

MARK UP: 5% \$101.92

TOTAL PRICE: \$2,140.36

Any lost time due to Overtime must add 15 percent to the price above.

Quote is void if not accepted within 30 days.

This quote is based on material pricing at the time of quote, any increases after the 30 day period will be added to the price.

If you have any questions please call. Thank You.

DOUGLAS N. CARLSON, CEO

#### Change Order

Viking Industries, Inc. P O Box 32 Barrington, RI 02806 Telephone 401-246-1855

FAX 401-246-1366

																2							

Rejected

Contractor:

Attn:

Brookline High School - Deferred Maint. Job #: Job: Address Ref#: Bulletin #008 Roof Duct per Bulletin #008 12/22/21 Desc: Price/Unit **Totals** Description Quantity Extension Material: 397.10 2" ISO Board 110 3.61 \$ 564.82 \$ 564.82 VentureClad Jkt 1 25.00 Misc Tape 2 \$ 50.00 \$ 20.00 1 20.00 Misc Tacks 45.32 \$ 135.96 **PVC Caulking** 3 \$ \$ \$ \$ \$ \$ • \$ \$ ... \$ \$ \$ Shop Fabrication \$ Equipment \$ Other Charges: **SUBTOTAL** \$ 1,167.88 0.00% \$ Taxes \$ 1,167.88 \$1,167.88 **TOTAL MATERIAL** Extension Rate Hours Labor: Insulator \$108.82 8 \$ 870.56 \$ \$108.82 Handling & Distribution \$ Other: Trucking per hour \$15.00 Insurance, Taxes, Workman's Comp 0% \$ \$ 870.56 SUBTOTAL LABOR \$ \$0.00 Mileage per day \$ Board **TOTAL LABOR** S 870.56 \$870.56 2,038.44 \$ **TOTAL LABOR & MATERIALS:** 0% \$ Overhead: \$ 2,038,44 Subtotal before Profit: 5% \$ 101.92 Profit \$2,140.36 **TOTAL PRICE** 

NOTE: Due to the Fire at the Johns Manville Plant we can not guarantee deliveries of pipe covering. Viking is not responsible for any delays caused by this fire and any increases will be passed along and not absorbed by Viking. This quote is based on material pricing at the time of quote and availability when required. Quote is void if not accepted within 30 days.