

Harvey Construction
10 Harvey Rd
Bedford, New Hampshire 03110
Phone: (603) 624-4600
Fax: 603-668-0389

Project: 2017-006 - Garrison Elem Renov & Addition
50 Garrison Road
Dover, New Hampshire 03820

Prime Contract Potential Change Order #040: Replace Leaking Coil at Admin Area

TO:	City of Dover 288 Central Ave Dover New Hampshire, 3820	FROM:	Harvey Construction 10 Harvey Road Bedford New Hampshire, 03110
PCO NUMBER/REVISION:	040 / 0	CONTRACT:	1 - Garrison Elem Renov & Addition Prime Contract
STATUS:	Pending - In Review	CREATED BY:	Adam Reynolds (Harvey Construction)
REFERENCE:		CREATED DATE:	10/22 /2018
FIELD CHANGE:	No	PRIME CONTRACT CHANGE ORDER:	None
SCHEDULE IMPACT:		TOTAL AMOUNT:	\$2,549.64

POTENTIAL CHANGE ORDER TITLE: Replace Leaking Coil at Admin Area

CHANGE REASON: Existing Condition

POTENTIAL CHANGE ORDER DESCRIPTION: (The Contract Is Changed As Follows)

CE #097 - Replace Leaking Coil at Admin

Existing coil is leaking from inside the packaged coil. A temporary repair has been made to supply heat to the reception area.

Price does not include ACT. Removal and Replacement of the ACT Ceiling to be tracked on Time and material.

ATTACHMENTS:

OMI CCO Request - Garrison CO-015 Admin Coil Replacement.pdf

#	Cost Code	Description	Type	Amount
1	15-010 - PLUMBING	Replace leaking coil at the admin area per Oliver CO 15 dated 10/16/18.	Subcontract	\$ 2,427.00
Subtotal:				\$2,427.00
Perf. & Pay Bond (0.8%): 0.80% Applies to all line item types.				\$ 19.42
General Liability (0.695%): ~ 0.7% Applies to all line item types.				\$ 17.00
Fee (3.5%): 3.50% Applies to all line item types.				\$ 86.22
Grand Total:				\$2,549.64

Daniel Bisson (Harriman)
1 Perimeter Road
Manchester, New Hampshire 3103

City of Dover
288 Central Ave
Dover, New Hampshire 3820

Harvey Construction
10 Harvey Road
Bedford, New Hampshire 03110

SIGNATURE DATE

SIGNATURE DATE

SIGNATURE DATE



**OLIVER
MECHANICAL
INC**

CHANGE ORDER PROPOSAL

Project Name:	Garrison School	Date:	October 16, 2018
General Contractor:	Harvey	CO Request #:	CO-015
Engineer	Harriman	Submitted By:	Mike Harrison

Description:	Reason:
Replace existing coil RCH-1 in the Admin area Labor: 8 hours installation @\$75/hr 4 Hours to repair the coil on 10/8 Materials: New Trane 2 row coil & installation materials - \$1,307.00	Existing coil is leaking from inside the packaged coil. A temporary repair has been made to supply heat to the reception area.

Cost:	
Additional Mat. & Subs:	\$1,307.00
Additional Labor: \$75/hr	\$900.00
Profit & Overhead: %10	\$221.00
Resulting Contract Value:	\$2,427.00

Attachments:
Submittal for approval

TERMS OF PAYMENT:

All material is guaranteed to be as approved. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents, or delays beyond our control. Owner to carry fire and other necessary insurance. Our workers are fully covered by Workman's Compensation Insurance.

ACCEPTANCE OF CHANGE ORDER PROPOSAL:

The above prices, specifications, and conditions are satisfactory and hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Signature:**Authorized Name:****Date:**

Oliver Mechanical, Inc.

991 Candia Road, Manchester NH 03109 | 603 621 9063 | www.olivermechanicalinc.com



**OLIVER
MECHANICAL
INC**

Date: 10/16/18

Submittal #:17

Garrison Elementary School

Submittal Data

Engineer: Harriman

General Contractor: Harvey Construction

Submitted By: Michael Harrison

Email: mharrison@olivermechanicalinc.com

Specification 23

Section 238216

Air Coils

RHC-1 Replacement



TRANE

Submittal

Prepared For:
Oliver Mechanical Inc

Date: October 12, 2018

Job Name:
Garrison Elementary

Trane U.S. Inc. dba Trane is pleased to provide the enclosed submittal for your review and approval.

Product Summary

Qty	Product
1	Heating Coil

Nick Vecchione/Jim Walton
Trane
15 Constitution Drive
Bedford, NH 03110
603 263 2060

The attached information describes the equipment we propose to furnish for this project, and is submitted for your approval.

Product performance and submittal data is valid for a period of 6 months from the date of submittal generation. If six months or more has elapsed between submittal generation and equipment release, the product performance and submittal data will need to be verified. It is the customer's responsibility to obtain such verification.

Notes:

- Specified coil height of 14" is not available. This coil is selected at a height of 15". Please confirm this is acceptable.
- This coil does not include installation, valves, actuators, or any accessories.
- Contractor to confirm coil connections.

Table Of Contents

Product Summary.....1

Heating Coil (Item A1)

 Tag Data 3

 Product Data 3

 Performance Data 3

 Mechanical Specifications 4

 Unit Dimensions 5

Tag Data - Heating Coil (Qty: 1)

Item	Tag(s)	Qty	Description	Model Number
A1	RHC-1	1	Heating coil	DT0B15020G0BA110BABA00B

Product Data - Heating Coils**Item: A1 Qty: 1 Tag(s): RHC-1**

T -5/8" same end connection
 2 row hot water heating coil
 Left hand supply
 Galvanized steel casing (Std)
 15" (381mm) coil height
 20" (508 mm) finned length
 Aluminum fins
 Prima-flo E (energy efficient)
 110 fins per foot nominal fin spacing
 .020 (0.508 mm) std copper tubes

Performance Data - Heating Coils

Tags	RHC-1
Elevation (ft)	0.00
Leaving dry bulb (F)	112.13
Fouling factor (hr-sq ft-deg F/Btu)	0.00025
Fluid type	Water
Actual airflow (cfm)	500
Entering dry bulb (F)	46.00
Entering fluid temp (F)	180.00
Total capacity (MBh)	35.86
Standard fluid flow rate (gpm)	1.30
Volume (gal)	0.60
Fluid temp drop (F)	55.18
APD (in H ₂ O)	0.042
Fluid PD (ft H ₂ O)	1.01
Face velocity (ft/min)	240
Leaving fluid temp (F)	124.82
Fluid velocity (ft/sec)	1.44
Actual coil face area (sq ft)	2.08
Installed weight (lb)	29.9
Rigging weight (lb)	24.9
System type	Hot Water
Solution number (Each)	9.00
Reynolds number (Each)	16519.43

Mechanical Specifications - Heating Coil**Item: A1 Qty: 1 Tag(s): RHC-1****GENERAL**

Coil is manufactured by Trane. Coil will be designed with aluminum or copper plate fins and copper/copper alloy tubes. Fins have collars drawn, belled and firmly bonded to the tubes by means of mechanical expansion of the tubes. Coil has airflow arrow and nameplate attached to coil casing. Coil is certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

TYPE "T" HOT WATER HEATING COIL

A single tube feed, booster coil, with 5/8" [16mm] OD tubes. Coil is proof tested at a minimum of 300 psig [2068kPa] and leak tested to 200 psig [1379kPa], air pressure under water. Working pressure for hot water is maximum 225 psig [1551kPa] at 325F [163C]. Coil can be used for non-modulating steam coil applications. For steam applications, working pressure is minimum 100 psig [689kPa] at 400F [204C]. Coil supply/return connections are made of steel.

COIL CASING

Coil casing is manufactured with galvanized steel.

COIL PLATE FIN TYPE

Aluminum plate fin is Trane PRIMA FLO E (Energy Efficient) fin design.

COIL SUPPLY CONNECTION

Coil supply connection is on left side of coil with horizontal airflow (facing airflow).

Unit Dimensions - Heating Coil**Item: A1 Qty: 1 Tag(s): RHC-1**