WORKSHOP

Addendum 02

Project:	2nd floor addition at 56 Edilcan Drive, Vaughan, for Accord Plastics	Date:	22 March 2024
Project No.	2231	Pages incl. cover:	11

The following changes, additions, deletions and clarifications are hereby made an integral part of the documents, including the drawings and specifications for the above project.

Item	Description							
2.01	Revision to RFP Schedule: Revise item 1 of Instructions to Bidders as follows:							
	Bidder Question/Enquiries Due Date:Response to Questions Date:	01 April 2024, 5pm 05 April 2024, 5pm						
	• Submission Deadline (Technical + Financial):	11 April 2024, 2pm (via email)						
	Supplementary Bid Form Submission	12 April 2024, 2pm (via email)						
2.02	Revision: Revise Nicoletti Construction (Concrete Formi Suggested Subtrade as per Instructions to Bidders section	ng and Placement) from Pre-Qualified Subtrade to on 1.2.5.						
2.03	 Suggested Subtrade as per Instructions to Bidders section 1.2.5. Clarification: The following is provided for further clarity on working within occupied space/around Owner's operations: During normal working hours (6am Monday-6am Friday/24 hours per day), access to the site is permitted provided the Owner's production operations are able to proceed. Facilitating Owner's production operations includes, but is not limited to, base building services (power, water, life safety, etc) and access/safe working clearance at extrusion lines (located approximately between Grids C-E) Generally speaking, it is anticipated work outside the active extrusion lines/production area (Grids E-Z) can be coordinated during normal working hours, subject to review of Contractor's detailed work plan outlining proposed means and methods. Work within active extrusion lines/production area (Grids C-E) requires further/detailed review of Contractor's proposed means and methods to confirm if it can be carried out during normal working hours. Outside of normal working hours, Contractor has full access to the entire site, with the understanding it must be capable of supporting Owner's operations when normal working hours resume. 							
2.04	Clarification: With regards to Section 01 51 00 (Tempor construction purposes free of charge	ary Utilities), it is confirmed existing power can be used for						

WORKSHOP

2.05	Clarification: With regards to Commissioning, it is clarified that start-up reports/verifications for base building systems specifically identified within Mechanical & Electrical specifications shall be included in base bid price. Additional commissioning, including but not limited to commissioning of production equipment, shall be paid for by Owner directly outside of this contract.
2.06	Question: Section 01 31 13.1.1.3.5 indicates to remove / reinstate services that may impede the application of applied fireproofing. Even though mechanical and electrical drawings indicate modifications to existing services due to joist reinforcement, extent of all existing services and work related to service relocations (and protection of existing to remain) due to fireproofing work is not clearly identified. Can you provide Cash Allowance for work related to protection and / or relocation of existing services due to fireproofing work.
	Response: Relocation of services identified within mechanical/electrical drawings shall be included within base bid. A Cash Allowance will be provided to cover relocation of services not identified in mechanical/electrical drawings. Value of Cash Allowance to be confirmed via subsequent Addenda.
2.07	Refer to attached Mechanical Addendum MA-1, as prepared by Sharma + Partners.

Encl. Mechanical Addendum MA-1, CB30 Infrared Heater Spec Sheet

End of Addendum 02

SHARMA & PARTNERS INC.

Mechanical Addendum

Architect in Charge: Workshop Architecture Inc.	Mechanical Addendum	MA-1		
	Issue Date:	March 22, 2024		
Project: Accord Vaughan, 56 Edilcan Drive, Concord	Project Number:	2023-1010		

The following items are changes to the tender contract documents for this project. Contractor shall include the cost of these addendum items in the tender quotation. All material and workmanship are to be described in the contract documents unless otherwise stated. Contractor shall identify addendum numbers included in the tender quotation when submitting tender / bid form.

Question 1:

"The specification & drawing as per the infrared heaters is inconsistent with the SPACE-RAY model reference.

The CB Series is a U-bend residential / spot heater.

I would suggest the engineer meant the PTS/U heater at a 30-foot straight tube run as per the combustion air and venting layout.

Please confirm.

Also ... please confirm the input and ceiling height of the garage."

Answer:

The specified infrared heater model CB30 by Space-Ray cut sheet is attached for your reference. The drawing is revised to show venting and combistun to suit the specified model. Instaaltion to be suitable for vent throught combustible roof. Use direct outside air for combustion connection. Follow manufacture instructions for venting and combistion air instalation.

Refer to revised drawings M2.3N, M4.3N and M5.1N

Question 2:

"On drawing M2.2S it's shown 20 mm CA lines with notes that it's going down. But I don't see how far is going and how it's supposed to be ended."

Answer:

The 20mm compressed air serves extrusion line below. The main line splits in to 3 separate connections. Each connection (flex line) is terminated at low level. The intent is to remove existing piping to allow for structural re-enforcement and re-instate after completion of structural work. Below is photo of typical compressed air piping for extrusion line



Question 3:

On drawing M0.4 it's shown new Holding tank for vacuum pumps. Please provide spec for this tank.

Answer:

The tank to be custom made steel epoxy coated from inside, 1500mm(L) x 450(W) x 1500mm(H) with removable baffles, top of the tank to be removable (for cleaning).



architects permission. This drawing should not be used to calculate areas. All dimensions to be checked on site by the contractor and such dimensions to be their responsibility. This drawing shall not be used for construction unless identified as "Issued for Construction" Drawing errors or discrepancies are to be immediately reported to the architect.

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Rev Description

- Schematic Design
 Issued for 75% Progress
- 3 Issued for Permit

Issued for Tender
 Issued for Addendum #1

09/06/2023 17/11/2023 16/02/2024 04/03/2024 22/03/2024

Date

SHARMA & PARTNERS INC. Mechanical and Electrical Engineers 85 Curlew Drive, Unit 108 Toronto, Ontario M3A 2P8 Tel.: (416) 291–8822



WORKSHOP architecture inc 6 Sousa Mendes St Toronto Ontario M6P 0A8 T 416.901.8055 F 416.849.0383 www.workshoparchitecture.ca

Accord Vaughan

56 Edilcan Drive, Concord, ON

PROJECT CODE:	SCALE:
<u>22_31</u> DATE:	STATUS:
March 22, 2024	Addendum

Part 2nd Floor North Mechanical - New Layout







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RevDescriptionDate1Schematic Design09/06/2

- 2 Issued for 75% Progress
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SPI PROJECT #: 2023-1010

Accord Vaughan

56 Edilcan Drive, Concord, ON

March 22, 2024	Addendum
DATE:	STATUS:
22_31	1:75
PROJECT CODE:	SCALE:

Part 2nd Floor North HVAC - New Layout







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Rev Description

- Schematic Design
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Accord Vaughan

56 Edilcan Drive, Concord, ON

March 22, 2024	Addendum
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22_31	1:75
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Part Roof North HVAC - New Layout







COLD BLOCKER[™] CB SERIES

Pull Through Tube Heater Negative Pressure

Solutions For Commercial & Residential Heating





















Cold Blocker Infrared Tube Heaters

Solutions For Commercial & Residential Heating Since 1949

Residential Garages Workshops Swimming Pools Solariums Enclosed Patios Entry Ways ■ Small Unheated Areas ■ Club Houses Restaurants Warming Stations Storage Warehouses Farm Buildings Greenhouses Mechanical Rooms



Announcing The Space-Ray Cold Blocker

A compact size energy efficient infrared gas tube heater is now available for use in residential garages and light commercial buildings. The Space-Ray Cold Blocker industrial strength infrared heater is made especially for residential garages, workshops, or virtually any small unheated space. Its compact size (only 9 feet 3 inches in overall length) allows placement in those small, hard to heat areas where longer infrared tube heaters could not previously be used.

Heat From The Bottom Up

The Space-Ray Cold Blocker heats from the bottom up. People, objects and floors are warmed directly by the sun like radiant infrared heat. These surfaces absorb the heat and then re-radiate it back to the surrounding air to maintain a blanket of warmth within the heated space. Working from the bottom up saves energy and lowers fuel bills. In contrast, with a conventional forced air heating system, energy dollars must be spent to constantly heat, circulate and re-heat the cold air. Forced air works from the top down, heating the air in the upper sections of the building and stratifying from the ceiling downward. This makes the floor area the last and most difficult to heat. In addition, draft-free and quiet operation makes it the preferred heater when compared to forced air heaters.

Fuel Savings Up To 50%

With the Space-Ray Cold Blocker, improved comfort levels can be achieved along with lower fuel bills. In many buildings, owners have experienced annual fuel savings of between 30% and 50% when compared to conventional forced air systems. Now this savings and comfort can be yours, too.

Versatile And Reliable

The Space-Ray Cold Blocker is both versatile and reliable. Each unit is factory pre-assembled for easy, low cost installation and is available in four sizes from 20,000-50,000 BTU/Hr. All models are available in either natural or propane gas and have been design certified by CSA. Reliability and durability are underscored through the use of high quality materials like calorized (heat treated) tubes, maintenancefree draft inducer assemblies and redundant step-opening gas valves.

Call For More Information

So, when you think comfort heating for residential garages, restaurants or light commercial buildings, think about the Space-Ray Cold Blocker. Call our toll-free number, 1-800-438-4936 or visit us at www.spaceray.com for more information and the name of the Space-Ray representative nearest you.





Forced air works from the top down, heating the air Infrared heat works from the bottom up, warming first and stratifying from the ceiling downward. More heat is wasted in the upper area of the bulding.

people, floors and objects first without heating the air. Comfortable heat is retained at floor level

Optional Emitter Guard Kit & Outdoor Kit

The new Emitter Guard Kit covers the bottom, exposed area of the heater for cosmetic purposes - ideal for commercial patios and restaurants or other areas where appearance may be a concern. When used for outdoor installations, the Cold Blocker's new Outdoor Kit protects the burner assembly from inclement weather like rain and snow.



	SINGLE	TWO S	TWO STAGE TOTAL EMITT TUBE LENG		
MODEL	BTU/HR INPUT	BTU/HR HIGH INPUT	BTU/HR LOW INPUT	15FT	
CB 20	20,000	20,000	NA	Х	
CB 30	30,000	30,000	NA	Х	
CB 40	40,000	40,000	25,000	х	
CB 50	50,000	50,000	31,500	Х	

CONTROL SUFFIX	TYPE OF GAS	CONTROL OPTION DESCRIPTION
N5 / L5	Natural / Propane	Single Stage Gas Valve - Single Stage Input
N7 / L7	Natural / Propane	Two Stage Gas Valve - Modulating Input - High/Low Fire
N7 / L7	Natural / Propane	Two Stage Gas Valve - Modulating Input - High/Low Fi

Indicate model number based on Btu/hr input (e.g. 50,000 Btu/hr), emitter length (e.g.15 ft.). Control suffix (e.g. Natural Gas single stage input) . The unit selection would be CB50-15-N5

GAS TYPE	BURNER PRESSURE	SUPPLY PRESSURE MIN MAX		VOLTAGE	AMPS	IGNITION TYPE	FLUE CONNECTION	OUTSIDE COMBUSTION AIR CONNECTION
NATURAL	3.5" W.C.	5" W.C*	14" W.C.	120 VAC			4" Pound	4" Pound
PROPANE	10" W.C.	11" W.C.	14" W.C.	60 HZ	2.0	DIRECTORARK	4 Hound	4 Hound

NOTE: For all installations higher than 2000 ft. above sea level, please consult the factory regarding recommended derating of heaters.

Space-Ray's Cold Blocker Is Suited For Many Applications, Indoors and Out



A covered restaurant patio application



A private club dining area



Mellow Mushroom outdoor dining area



Heaters embeded in the overhang at a roof top bar

CB Specifications, Clearances & Dimensions

Cold Blocker Tube Heater Features	Radiant Emitter Tube System
■ Four input sizes from 20,000 to 50,000 BTU/Hr	■ 3" O.D. calorized aluminized steel emitter tube for long life
Natural or propane gas	and high radiant efficiency
 Single stage or modulating two stage controls 	5-year limited warranty on the emitter tube
U-tube design for uniform energy distribution	Smooth cast iron "U" bend
Compact size for easy installation from 8' to 16' above floor	Reflector System
Vacuum System- Pull Through System	Highly efficient aluminum reflectors with reflectivity rating of 97%.
Products of combustion are pulled through the combustion chamber for increased radiant efficiency and greater safety	Reflector ends are enclosed for maximum radiant
= 75 feet eidewell venting conchility	neat output and minimum convection loss
■ 75 feet sidewall venting capability	Suitable for horizontal or angle mount up to 45 degrees
Burner System	Other
One-piece cast iron burner	Lower mounting height kit required on heater installations
10-year limited warranty on burner	between 6 and 8 feet
Direct outside air for combustion	Optional Deflector Kit for reduced clearances to combustible
4" O.D. combustion air intake and vent	materials
Direct spark ignition system with step-opening gas value	Optional Decorative Grille Kit for drop ceiling applications
and 100% gas shut-off safety control (pre-purge)	Optional Outdoor Kit and Emmitter Guard Kit
Three monitoring lights for diagnosis of maintenance needs	

Minimum Clearances To Combustibles

MINIMUM CLEARANCES TO COMBUSTIBLES		MODEL NO.	SIDE	CEILING	BELOW	END	(45°) FRONT	(45°) REAR
End 🖛	Ceiling	CB 20	8"	4"	41"	8"	30"	4"
* Ceiling * Ceiling Front Side Below Horizontal 45° Angle (M		CB 30	8"	4"	41"	8"	30"	4"
	ont ' Rear Below	CB 40	12"	4"	57"	8"	40"	4"
		CB 50	12"	4"	57"	8"	40"	4"

Notes:1) The clearances below with deflector are: CB(50,40) - 42" and CB(30,20) - 33". 2) In Canada, the clearances below the heater are: CB(50,40) - 48" (36" with deflector) and CB(30,20) - 36" (27" with deflector). 3) Maintain 30" side clearance with deflector

Dimensions

For versatility side reflectors are available for close area mounting near walls and decorative grilles above suspended ceiling applications.



Venting Requirements

In residential applications, heaters must be vented outside the building with a flue pipe. In commercial applications, heaters can be common vented, individually vented or indirect vented. A vented installation must be vented outside the building with a flue pipe. An indirect vented installation requires a minimum ventilation flow of 4 CFM per 1000 BTU/hr of total installed heater capacity on natural gas by either gravity or power ventilation (4.18 CFM per 1000 BTU/hr on propane).

Installation Requirements

Installation and service must be performed by a licensed contractor. The installation must conform to local codes. In the absence of local codes, the installation must conform with the National Fuel Gas code, ANSI Z223.1 (latest edition also known as NFPA54) or GCA B149 (latest edition) installation codes. These codes are available from the National Fire Protection Association, Inc., Batterymarch Park, Quincy, MA 02269 or the Canadian Gas Association, 55 Scarsdale Road, Toronto, Ontario M3B 2R3, CANADA

For Your Safety

Operate Cold Blocker infrared heaters with proper care and observe all safety precautions. Carefully follow printed installation, operating and cleaning instructions furnished with the heater. Do not store gasoline or combustible products in the vicinity of the heater. Keep children, clothes and drapery away from the heater. Do not touch the heater or the tubes while the heater is in operation. Adequate ventilation must always be provided in accordance with codes.



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