Sheridan

ADDENDUM DOCUMENT

Addendum No. 01	
Project Number:	ITT 3187
Project Name:	Trafalgar B244 Classroom Renovation
Closing Date/Time:	December 6, 2024, at 2:00:00 p.m. local time
Issued By:	Sheridan College Hafsa Malik, Strategic Sourcing Specialist, Procurement Services E-mail: <u>hafsa.malik@sheridancollege.ca</u>

The following, issued by Sheridan College on November 27, 2024 shall be incorporated in the specifications and shall form part of the document noted above.

A. ADDITION DRAWINGS AND CLARIFICATION

A1 - The following scope of work and drawings have been revised:

<u>Mechanical Drawing Addendum package (7 pages – attached in the end of this document):</u>

- 1. Drawing M-1.4
 - Revision to sequence of operations for heating airflow setpoint in both occupied and unoccupied modes.
- 2. Drawing M-1.5
 - Revision to specification of all VAVs to be the same. Various values in the VAV Terminal Unit. Schedule has been changed.
- 3. Drawing M-2.1
 - Ductwork and VVT box serving adjacent office space is now shown.
- 4. Drawing M-2.2
 - Revision to branch ductwork serving each VAV box.
 - Revision to ductwork sizing after VAV-1 and VAV-2.
 - Addition of balancing dampers upstream of each VAV box and existing VVT office space.
 - Revision of balancing for each diffuser.
- 5. Drawing M-2.4
 - Revision of hydronic piping to suit new location of VAV boxes

The following drawings have been revised accordingly:

- M-1.4 Mechanical Specifications 3
- M-1.5 Mechanical schedules
- M-2.1 Second Floor Plan HVAC Demolition
- M-2.2 Second Floor Plan HVAC New
- M-2.4 Second Floor Plan Hydronics New

A2 - The following scope of work in ITT has been revised:

Part 1 – Invitation and submission instructions 1.1 Invitation to Bidders

The renovation of TRAF B244 classrooms will include (but not limited to) the following:

- 1. Repair and retrofit all interior partitions with new insulation and drywall
- 2. New electrical outlets to accommodate classroom furniture, podium and IT equipment
- 3. Install new data to support audio/visual equipment
- 4. Install four new Variable Air Volume (VAV) units
- 5. Upgrade mechanical components and controls
- 6. Install new ceiling grid, light fixtures, lighting system and controls
- 7. Install flooring and wall base, window blinds, whiteboards, new doors and hardware
- 8. Prepare and paint all walls, columns, doors and window frames
- 9. Install new access card readers and automatic door openers

B. RESPONSES TO QUESTIONS ASKED BY VENDORS DURING SITE VISIT

- **Q1:** What is below the space?
- A1: Our bookstore is below the space on the first floor. It has a suspended ceiling system
- Q2: what is the BAS system?
- A2: Controlled by Ainsworth
- Q3: Will the general contractor be carrying Siemens?
- A3: yes
- Q4: who are the pre-qualified data contractors?
- A4:
- 1. Cable Assembly Systems Limited.

4 Sharp Road, P.O. Box 607 Brantford, ON N3T 5P9 Tel: 519-759-4401 Fax: 519-759-4931 <u>bmanese@cableassembly.ca</u> **2. CaTech Systems Limited** 201 Whitehall Drive, Unit 4

Markham, ON L3R 9Y3 Tel: 905-944-0000 Fax: 905-944-4844 pzomparelli@catech-systems.com

3. The State Group Inc.

3206 Orlando Drive. Mississauga, ON L4V 1R5 Tel: 905-293-07419 Fax: 905-293-7548 <u>G.LoVetere@stategroup.com</u>

Pre-qualified A/V contractor

 Georges Grenier
 Global Unified Solution Services georges.grenier@globaluss.com
 6535 Millcreek Dr, Unit 58 Mississauga, ON L5N 2M2

and

 Sharmila Kulasingam
 Global Unified Solution Services sharmila.kulasingam@globaluss.com
 6535 Millcreek Dr, Unit 58
 Mississauga, ON L5N 2M2
 t: 905-363-3600 ext 239 m: 647-456-4341

Total Number of Pages = 3 End of Addendum No. 01

All Addenda will become a part of the ITT 3187

То:	Sheridan College . Oakville Campus 1430 Trafalgar Road Oakville, ON L6H 2L1	Project Name:	Sheridan Trafalgar Campus – B244 Classroom Renovation 1430 Trafalgar Road Oakville, ON
Attn:	Nicole Whiteside	Project No.	24-168
Date:	November 26, 2024	ADD. No.	ADDM01
Prepared By:	Giovanni Gatto, B.Eng.		

The following items are proposed changes to the tender document and all associated costs are to be included as part of the submitted tender amount.

1. <u>Reference</u>

- 1. Drawing M-1.4, Mechanical Specifications III and Sequence of Operations, Rev.05, November 26, 2024. Drawing is issued with this addendum.
- 2. Drawing M-1.5, Mechanical Schedules, Rev.05, November 26, 2024. Drawing is issued with this addendum.
- 3. Drawing M-2.1, Second Floor Plan HVAC Demolition, Rev.05, November 26, 2024. Drawing is issued with this addendum.
- 4. Drawing M-2.2, Second Floor Plan HVAC New, Rev.05, November 26, 2024. Drawing is issued with this addendum.
- 5. Drawing M-2.4, Second Floor Plan Hydronics New, Rev.05, November 26, 2024. Drawing is issued with this addendum.

2. Description

- 1. Drawing M-1.4
 - 1. Revision to sequence of operations for heating airflow setpoint in both occupied and unoccupied modes.
- 2. Drawing M-1.5
 - 1. Revision to specification of all VAVs to be the same. Various values in the VAV Terminal Unit Schedule has been changed.
- 3. Drawing M-2.1
 - 1. Ductwork and VVT box serving adjacent office space is now shown.
- 4. Drawing M-2.2
 - 1. Revision to branch ductwork serving each VAV box.
 - 2. Revision to ductwork sizing after VAV-1 and VAV-2.
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 - 4. Revision of balancing for each diffuser.

5. Drawing M-2.4

1. Revision of hydronic piping to suit new location of VAV boxes.

3. <u>Reason for Revision</u>

- 1. Clarification.
- 2. Client Request.

End of ADDM01

HYDRONIC SYSTEMS SPECIFICATIONS

2. INSTALLATION OF PIPEWORK

2.1. EXECUTION

- 2.1.1. MAKE ALL CONNECTIONS TO EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 2.1.2. PROVIDE VALVES AND UNIONS AT CONNECTION FOR MAINTENANCE/REPLACEMENT PURPOSES.
- 2.1.3. PROVIDE DRAINS AT SYSTEM LOW POINTS, EQUIPMENT AND ISOLATING SECTIONS. INSTALL NPS 3/4"Ø GATE OR GLOBE VALVE WITH HOSE END MALE THREAD, CAP AND CHAIN.
- 2.1.4. PROVIDE AUTOMATIC AIR VENTS AT SYSTEM HIGH POINTS COMPLETE WITH ISOLATING VALVE.
- 2.2. <u>CLEARANCES</u>: PROVIDE THE REQUIRED CLEARANCES AROUND EQUIPMENT, PIPING, SYSTEMS, ETC. TO RENDER THE NECESSARY SPACE REQUIREMENTS FOR SERVICE, INSPECTION, OPERATION, REPLACEMENT AND MAINTENANCE. REFER TO ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR REQUIRED AND RECOMMENDED CLEARANCES.
- 2.3. <u>DIELECTRIC FITTINGS</u>: WHERE DISSIMILAR METALS ARE JOINED, PROVIDE DIELECTRIC ISOLATING FITTINGS (COMPLETE WITH THERMOPLASTIC LINER), UNIONS OR BRONZE VALVES.
- 2.4. PIPEWORK INSTALLATION
- 2.4.1. SCREWED FITTING CONNECTIONS SHALL BE COMPLETE WITH PIPE DOPE OR TEFLON TAPE.
- 2.4.2. PROTECT ALL SYSTEM OPENINGS DURING CONSTRUCTION TO PREVENT THE ENTRY OF FOREIGN MATERIAL.
- 2.4.3. INSTALL ALL PIPING, EQUIPMENT, ETC. TO BE PARALLEL OR PERPENDICULAR WITH BUILDING LINES.
- 2.4.4. PROPERLY REAM AND REMOVE SCALE AND FOREIGN MATERIAL PRIOR TO ASSEMBLY.
- 2.4.5. <u>VALVES</u>

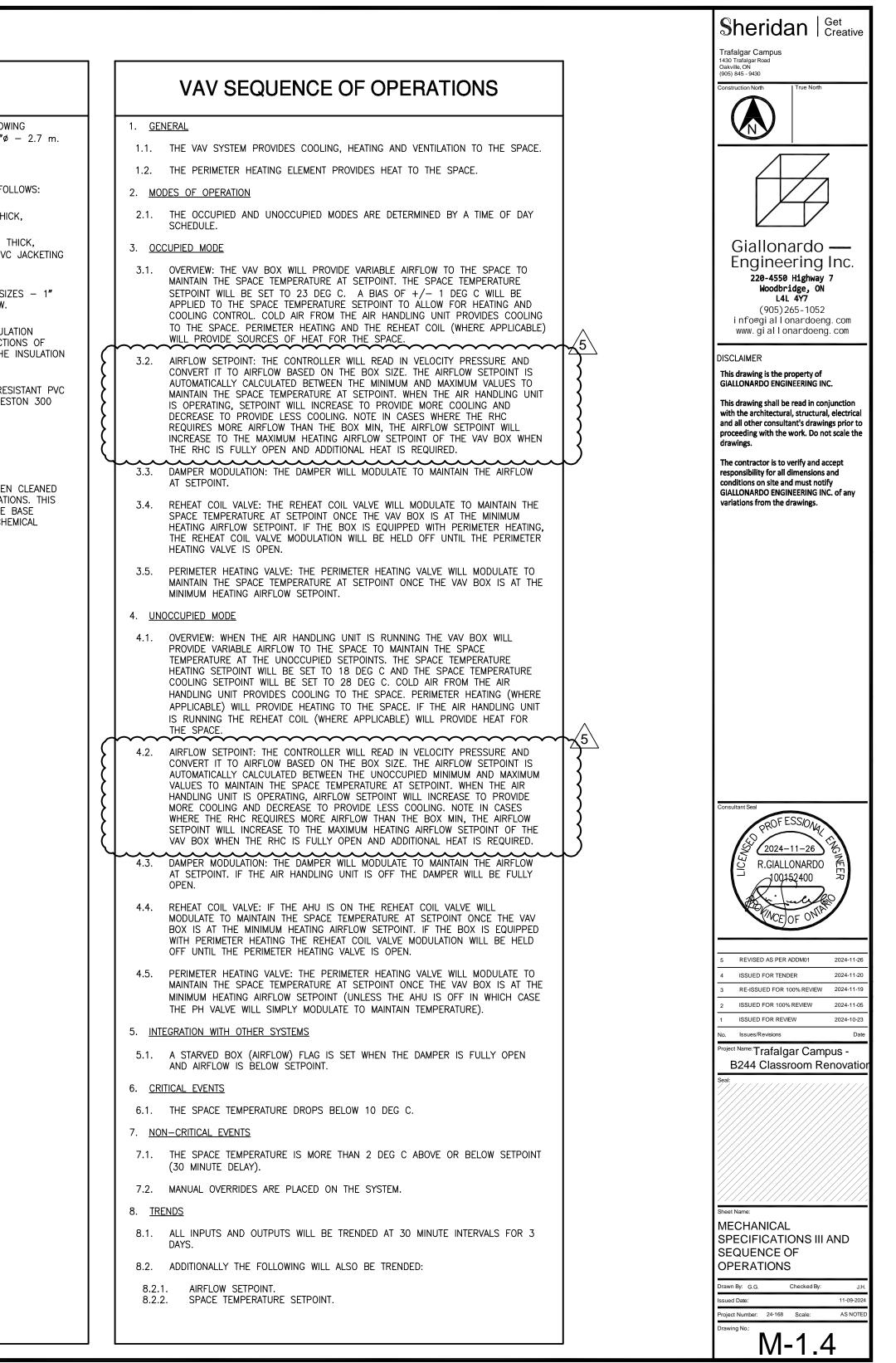
2.

2.4.5.1.	INSTALL ALL VALVES IN ACCESSIBLE LOCATIONS FOR MAINTENANCE WITHOUT REMOVING ADJACENT PIPING.
2.4.5.2.	USE BALL OR BUTTERFLY VALVES AT BRANCH TAKE-OFFS FOR ISOLATING PURPOSES EXCEPT WHERE OTHERWISE SPECIFIED.
2.4.5.3.	INSTALL BUTTERFLY VALVES ON CHILLED WATER AND RELATED CONDENSER WATER SYSTEMS ONLY.
2.4.5.4.	INSTALL BALL VALVES FOR GLYCOL SERVICE.
2.4.5.5.	USE CHAIN OPERATORS ON VALVES NPS $2-1/2$ "Ø AND LARGER WHERE INSTALLED MORE THAN 2400 MM ABOVE FLOOR IN MECHANICAL ROOMS
4.6. <u>CH</u>	ECK_VALVES
2.4.6.1.	INSTALL SILENT CHECK VALVES ON DISCHARGE OF PUMPS AND IN

- VERTICAL PIPES WITH DOWNWARD FLOW AND ELSEWHERE INDICATED. 2.4.6.2. INSTALL SWING CHECK VALVES IN HORIZONTAL LINES ON DISCHARGE OF PUMPS AND ELSEWHERE AS INDICATED.
- 2.4.7. WHERE PIPING PASSES THROUGH MASONRY, FIRE-RATED ASSEMBLIES, FOUNDATION WALLS, POURED WALLS, ETC., PROVIDE PIPE SLEEVES CONSTRUCTED OF SCHEDULE 40 BLACK STEEL PIPE. ALLOW FOR 0.25" OF CLEARANCE BETWEEN INSIDE OF SLEEVE AND OUTSIDE OF PIPE/INSULATION. SEAL WITH A FIRE RETARDANT AND WATERPROOF NON HARDENING MASTIC. WHERE SLEEVE IS INSTALLED IN A FIRE RATED ASSEMBLY, PROVIDE FIRESTOPPING CONFORMING TO ULC.
- 2.4.8. PROVIDE ESCUTCHEON PLATES ON PIPING PASSING THROUGH FINISHED WALLS, FLOOR AND CEILINGS.
- 2.4.9. PROPERLY FLUSH AND CLEAN SYSTEM AND REMOVE ALL FOREIGN MATTER PRIOR TO SYSTEM STARTUP. PREPARATORY TO ACCEPTANCE, CLEAN AND REFURBISH EQUIPMENT AND LEAVE IN OPERATING CONDITION, INCLUDING REPLACEMENT OF FILTERS IN PIPING SYSTEMS.
- 2.4.10. PRESSURE TEST SYSTEM AND MONITOR FOR PRESSURE LOSS FOR A MINIMUM OF 4 HOURS, UNLESS OTHERWISE SPECIFIED.
- 2.5. HANGERS AND SUPPORTS
- 2.5.1. UTILIZE PIPE HANGERS AND SUPPORTS CONSTRUCTED OF GALVANIZED STEEL.
- 2.5.2. INSTALL HANGERS SO THAT RODS ARE VERTICAL. ENSURE LOAD EQUALIZATION WITH ROD ADJUSTMENT.
- 2.5.3. FOR RISER CLAMPS, PROVIDE GALVANIZED BLACK CARBON STEEL, ULC LISTED OR FM APPROVED WHERE REQUIRED. BOLTS AND NUTS SHALL CONFORM TO ASTM-A307 AND ASTM-A563, RESPECTIVELY.
- 2.5.4. FOR BASE-MOUNTED EQUIPMENT, PROVIDE CONCRETE HOUSE-KEEPING PADS 4" TALL AND 6" OF SPACE AROUND EQUIPMENT AND CHAMFERED EDGES.
- 2.5.5. <u>HANGER SPACING</u>
- 2.5.5.1. PROVIDE HANGERS AT SPACING INDICATED BELOW AND AT EVERY JOINT AND CHANGE OF DIRECTION.

HYDRONIC SYSTEMS

- 2.5.5.2. PROVIDE HANGERS FOR VARIOUS PIPE SIZES AT THE FOLLOWING SPACING: $1-1/4'' \phi 1.8 \text{ m}, 1-1/2'' \phi 2.4 \text{ m}$ AND $2'' \phi 2.7 \text{ m}.$
- 2.6. PIPING INSULATION
- 2.6.1. PROVIDE PIPING INSULATION FOR THE HYDRONIC SYSTEMS AS FOLLOWS:
- 2.6.1.1. HEATING WATER (HWS/HWR): TYPE 'A', UP TO $1''\phi 1''$ THICK, $1-1/4''\phi$ AND LARGER -1-1/2'' THICK.
- 2.6.1.2. CHILLED WATER (CHWS/CHWR): TYPE 'A', UP TO $1'' \phi 1''$ THICK, $1-1/4'' \phi$ AND LARGER - 1-1/2'' THICK. RECOVER WITH PVC JACKETING AS SPECIFIED BELOW.
- 2.6.1.3. CONDENSER WATER (INDOOR CWS/CWR): NOT REQUIRED
- 2.6.1.3. CONDENSER WATER (OUTDOOR, CWS/CWR): TYPE 'A', ALL SIZES 1" THICK. RECOVER WITH PVC JACKETING AS SPECIFIED BELOW.
- 2.6.2. TYPE 'A': JOHNS MANVILLE MICRO-LOK FIBRE GLASS PIPE INSULATION COMPLETE WITH JACKET AND VAPOUR RETARDER. CONNECT SECTIONS OF INSULATION WITH SELF-ADHESIVE BUTT STRIPS SUPPLIED BY THE INSULATION MANUFACTURER.
- 2.6.3. WHERE NOTED, RECOVER INSULATION WITH HEAVY-GAUGE UV-RESISTANT PVC FITTINGS, COVER AND JACKETING EQUAL TO JOHNS MANVILLE ZESTON 300 SERIES.
- 2.6.4. PROVIDE PRE-FORMED INSULATION FOR FITTINGS AND VALVES.
- 3. SYSTEM CHEMICAL TREATMENT
- 3.1. PROVIDE SYSTEM CHEMICAL TREATMENT AFTER THE SYSTEM HAS BEEN CLEANED AND STARTED UP IN ACCORDANCE WITH THE MECHANICAL SPECIFICATIONS. THIS CONTRACTOR SHALL PAY FOR AND CONTRACT THE SERVICES OF THE BASE BUILDING CHEMICAL TREATMENT CONTRACTOR TO CARRY OUT THE CHEMICAL TREATMENT PROCESS.



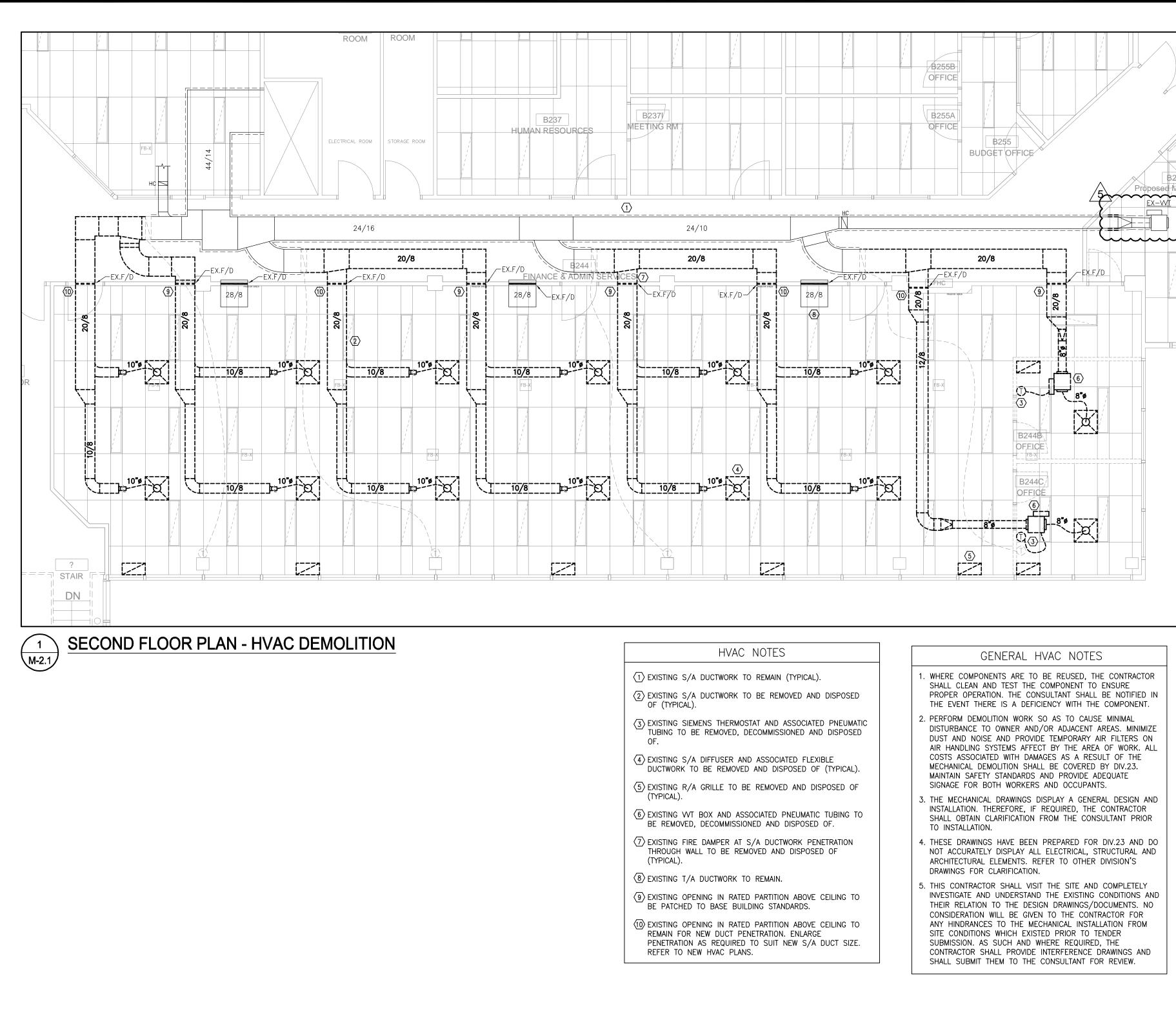
RADIANT PANEL SCHEDULE

					PANEL	ACTIVE		HEATING	HEAT	ING WATE	R	TOTAL	w
REF.	TYPE	MANU.	MODEL	CONFIG.	WIDTH (IN.)	LENGTH (IN.)	ROWS	OUTPUT DENSITY (BTU/FT)	FLOW RATE (GPM)	EWT (°F)	LWT (°F)	CAPACITY (MBH)	(FT.
A	RH-1	ENGINEERED AIR	HEF-2	CEILING MOUNTED	24	90.0	4	389	0.292	180	160	2.92	0
в	RH-2 RH-3 RH-4 RH-5	ENGINEERED AIR	HEF-2	CEILING MOUNTED	24	227.0	4	389	0.735	180	160	7.35	1.
с	RH-5	ENGINEERED AIR	HEF-2	CEILING MOUNTED	24	220.0	4	389	0.712	180	160	7.12	1.
D	RH-6	ENGINEERED AIR	HEF-2	CEILING MOUNTED	24	216.0	4	389	0.700	180	160	7.00	2
NOTES:	•	•			•	•		•				<u>.</u>	

			DIFFUSER SCHEDULE
TAG	MAKE/MODEL	FINISH	REMA
A	EH PRICE MODEL SPD 24/24 SQUARE S/A DIFFUSER	_	SQUARE PLAQUE DIFFUSER, STEEL CONSTRUCTION FOR T-BAR LAY-IN. SIZE NECK AND BALANCE AS INDICATI
В	EH PRICE MODEL 80 EGG CRATE GRILLE	_	CORE ONLY, 1/2"x1/2" ALUMINUM GRID CORE, FOR T-BAR LAY-IN. SIZE AS INDICATED ON DRAWINGS.
NOTES:			

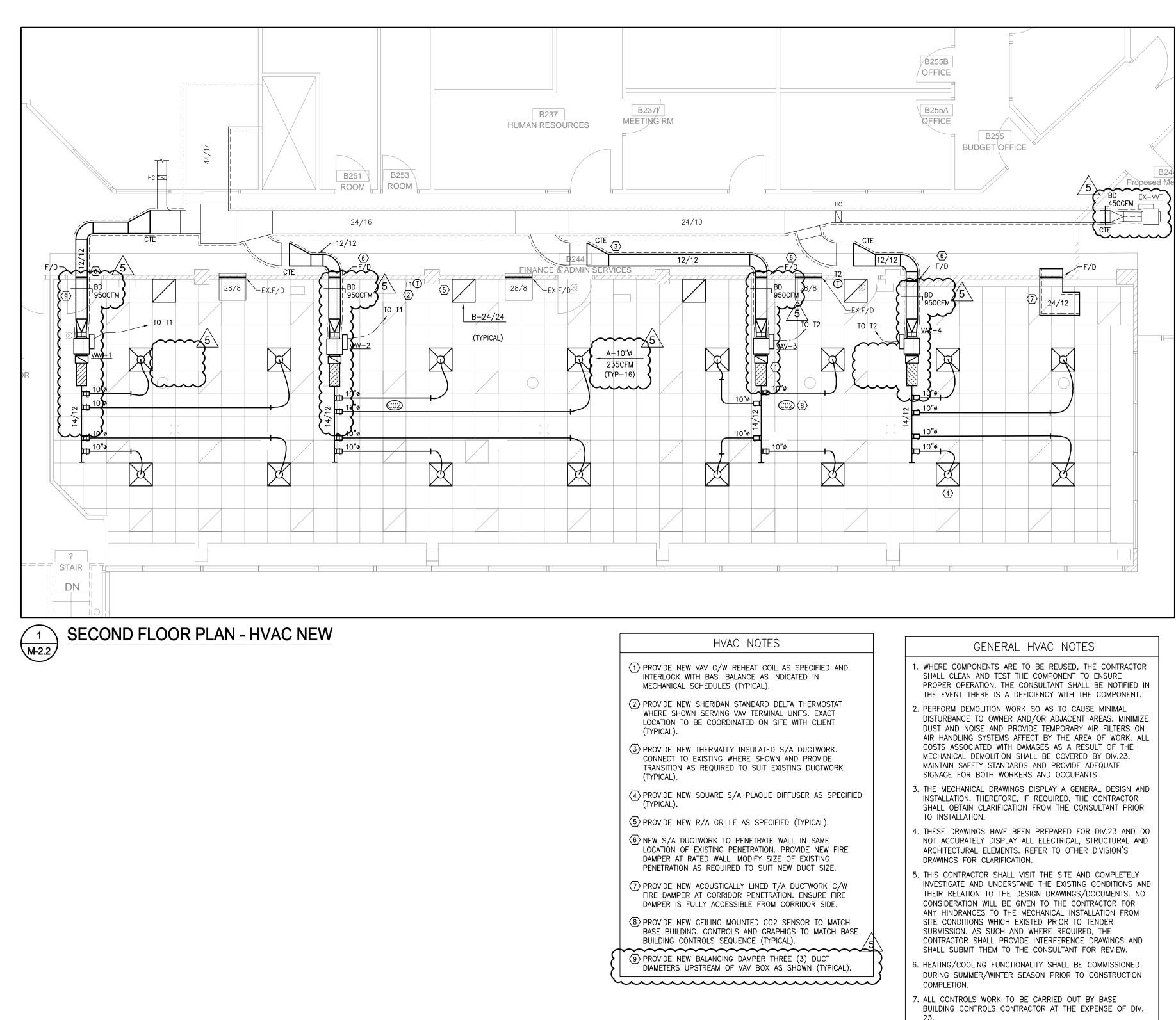
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							HEATING COIL	PERFORMANCE			
TAG	MANU.	MODEL NO.	INLET SIZE DIA. (IN.)	MAX (CFM)	MIN (CFM)	MAXIMUM AIRFLOW (CFM)	WATER (GPM)	CAP. (MBH)	EWT/LWT (°F)	CONTROLS TYPE	
/-1 /-2 /-3 /-4	EH PRICE	SDV	10"ø	950	285	600	2.0	19.0	180/160	DIGITAL	PRESSURE INDEF CIRCUIT HYDRON BELIMO ZONE TIC

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								RADI		NEL	SCHE	DULE			Trafalgar Campus 1430 Trafalgar Road Oakville, ON (905) 845 - 9430 Construction North
					PANEL	ACTIVE		HEATING	HEATI	NG WAT	ſER	TOTAL	WPD		
REF.	TYPE	MANU.	MODEL	CONFIG.	WIDTH (IN.)	LENGTH (IN.)	ROWS	OUTPUT DENSITY (BTU/FT)	FLOW RATE (GPM)	EWT (°F)	LWT (°F)	CAPACITY (MBH)	(FT.H2O)		
A	RH-1	ENGINEERED AIR	HEF-2	CEILING MOUNTED	24	90.0	4	389	0.292	180	160	2.92	0.11	CEILING MOUNTED RADIANT PANEL HEATER, 24 INCHES WIDE, CONSTRUCTED FROM ALUMINUM EXTRUSIONS, EXACT PANEL LENGTH FIELD CUT ON SITE TO SUIT INSTALLATION CONDITIONS. THERMOSTAT AND CONTROLS SHALL BE PROVIDED BY CONTROLS CONTRACTOR TO MATCH BASE BUILDING.	
В	RH-2 RH-3 RH-4 RH-5	ENGINEERED AIR	HEF-2	CEILING MOUNTED	24	227.0	4	389	0.735	180	160	7.35	1.28	CEILING MOUNTED RADIANT PANEL HEATER, 24 INCHES WIDE, CONSTRUCTED FROM ALUMINUM EXTRUSIONS, EXACT PANEL LENGTH FIELD CUT ON SITE TO SUIT INSTALLATION CONDITIONS. THERMOSTAT AND CONTROLS SHALL BE PROVIDED BY CONTROLS CONTRACTOR TO MATCH BASE BUILDING.	Giallonardo — Engineering Inc.
С	RH-5	ENGINEERED AIR	HEF-2	CEILING MOUNTED	24	220.0	4	389	0.712	180	160	7.12	1.24	CEILING MOUNTED RADIANT PANEL HEATER, 24 INCHES WIDE, CONSTRUCTED FROM ALUMINUM EXTRUSIONS, EXACT PANEL LENGTH FIELD CUT ON SITE TO SUIT INSTALLATION CONDITIONS. THERMOSTAT AND CONTROLS SHALL BE PROVIDED BY CONTROLS CONTRACTOR TO MATCH BASE BUILDING.	220-4550 Highway 7 Woodbridge, ON L4L 4Y7 (905)265-1052 info@giallonardoeng.com
D	RH-6	ENGINEERED AIR	HEF-2	CEILING MOUNTED	24	216.0	4	389	0.700	180	160	7.00	2.8	CEILING MOUNTED RADIANT PANEL HEATER, 24 INCHES WIDE, CONSTRUCTED FROM ALUMINUM EXTRUSIONS, EXACT PANEL LENGTH FIELD CUT ON SITE TO SUIT INSTALLATION CONDITIONS. THERMOSTAT AND CONTROLS SHALL BE PROVIDED BY CONTROLS CONTRACTOR TO MATCH BASE BUILDING.	www.giallonardoeng.com DISCLAIMER
<u>OTES</u> : CONNECI FLOOR F	CONTROL V	/ALVE TO BAS AN DEPICT ACTIVE LE	D MATCH DEVIC ENGTHS, PROVID	ES AND CON DE BLANK OFF	TROL STRATEG	IES TO BAS CROSS COLI	E BUILDING UMNS FOR	G. WHERE NO CONTR CONTINUOUS PANEL	OL STRATEGY I INSTALLATION.	EXISTS, I CONTRA	REFER TO S ACTOR TO FI	SEQUENCE OF	DF OPERAT N SITE TO	ONS. ACCOMMODATE COLUMNS AND OTHER OBSTRUCTIONS.	This drawing is the property of GIALLONARDO ENGINEERING INC. This drawing shall be read in conjunction with the architectural, structural, electric and all other consultant's drawings prior
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TAG		MAKE/MODEL		FINISH									REMARKS		conditions on site and must notify GIALLONARDO ENGINEERING INC. of any variations from the drawings.
A	EH PRICE I S/A DIFFUS	MODEL SPD 24/2 SER	4 SQUARE	– S	QUARE PLAQU	e diffuser	R, STEEL C	ONSTRUCTION FOR T	-BAR LAY-IN.	SIZE NE	ECK AND BA	LANCE AS IN	NDICATED	ON DRAWING.	
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VAV-1 VAV-2 VAV-3 VAV-4	EH PRIC	CE SDV	10"ø	950	285	60	00	2.0 19.0	180/16	0	DIGITAL	CIRCUIT HYD	DRONIC RE	NT VAV TERMINAL UNIT C/W 3'-0" SOUND ATTENUATOR AND STANDARD CAPACITY 1 ROW MULTI HEAT COIL. CONTROLS PROVIDED BY CONTROLS CONTRACTOR TO MATCH BASE BUILDING. PROVIDE WAY CONTROL VALVE WITH ELECTRONIC ACTUATOR.	R.GIALLONARDO 100152400
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															Drawn By: G.G. Checked By:
															Issued Date: 11-09-2 Project Number: 24-168 Scale: AS NC Drawing No.:
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Sheridan	
Trafalgar Campus	Get Creative
Oakville, ON (905) 845 - 9430	
Construction North True North	
Giallonardo	
Engineering 220-4550 Highway Woodbridge, ON	
L4L 4Y7 (905)265-1052	
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Image: Seal: Sheet Name: SECOND FLOOR PLACE Sheet Name: Drawn By: G.G. Drawn By: G.G.	2024-11-26 2024-11-20 2024-11-05 2024-10-23 Date US - novation

M-2.1



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