

PROJECT NAME	2123 RTE. 500 W. - EMBRUN, ON - CAMBRIDGE PUBLIC SCHOOL ADDITION - ARCHITECTURAL SERVICES - UCDSB RFQ #25-036
PROJECT NO.	GWAL 2025-385
DATE	APRIL 23, 2026
ADDENDUM NO.	M1/R1

The following additions, deletions & revisions form part of the drawings and specifications for the above-referenced project:

GENERAL

Responses to Tender Questions

- Q3: Will the unit remain operational during the project? If so, are there any special working hours or site-specific conditions we should be aware of?**
A3: Rooftop units are not expected to be operational during the replacement. Work can be completed during regular hours when the students are on holidays (Christmas break, March break, and summer) or on weekends.
- Q5: Will the connection of hydro and gas be covered by owner?**
A5: Contractor is to carry a \$40,000.00 cash allowance to cover the gas connection cost.

SPECIFICATIONS

1. Reference Section 21 13 13 - WET PIPE FIRE SUPPRESSION SPRINKLERS

- .1 The following items were added to section 2.1:

"6. FLEXIBLE PIPING

- .1 **BRAIDED FLEXIBLE STAINLESS STEEL CONNECTOR. HOSE AND BRAID TO BE CONSTRUCTED FOR STAINLESS STEEL, GROOVED END CONNECTION.**
.2 **ASSEMBLY TO BE DESIGNED WITH A SAFETY FACTOR OF 4."**

2. Reference Section 22 42 01 - PLUMBING SPECIALTIES AND ACCESSORIES

- .1 Item 2.11 added:

"2.11 FLEXIBLE CONNECTIONS


- .1 **FITTING TO BE MADE OF BRONZE HOSE, BRONZE BRAID AND COPPER SWEAT FITTINGS.**
.2 **ASSEMBLY TO BE DESIGNED WITH A SAFETY FACTOR OF 4.**
.3 **FITTING TO BE CERTIFIED TO ANSI/NSF-61 AND NSF-372."**

DRAWINGS**1. Reference Attached Drawing M0.2**

.1 Refer to air handling unit schedule indicating revised power requirements and remarks.

2. Reference Attached Drawings M1.2 and M2.5

.1 Refer to drawing indicating the addition of flexible connections on the domestic cold water and sprinkler piping between the existing school and addition.

ENCLOSURE(S)	Drawings M0.2, M1.2 and M2.5
ISSUED BY	DISTRIBUTION
Petar Azdajic, P.Eng. /kr 	Nathalie Routhier (N45 Architecture Inc.) Dorothy Lee (N45 Architecture Inc.) Steve Hamilton (GWAL - Mechanical) Petar Azdajic (GWAL - Mechanical) Divyakant (Raj) Vyas (GWAL - Electrical) Diego Agudelo (GWAL - Electrical) Khaled Alhariri (GWAL - Electrical) Yves Lavictoire (GWAL - Electrical)

ROOFTOP UNIT SCHEDULE WITH ENERGY RECOVERY																																							
TAG	LOCATION	AREA SERVED	SUPPLY FAN DATA (VSD)					EXHAUST/RETURN FAN DATA (VSD)					GAS HEATING SECTION					DX COOLING COIL DATA							ENERGY WHEEL DATA								ELECTRICAL DATA		WEIGHT (kg)	BASIS OF DESIGN	REMARKS		
			FAN TYPE	AIR FLOW (L/s)	EXTERNAL STATIC PRESSURE (Pa)	TOTAL STATIC PRESSURE (Pa)	MOTOR SIZE (HP)	FAN TYPE	AIR FLOW (L/s)	EXTERNAL STATIC PRESSURE (Pa)	TOTAL STATIC PRESSURE (Pa)	MOTOR SIZE (HP)	INPUT (kW)	OUTPUT (kW)	E.A.T. (°C)	L.A.T. (°C)	STAGES	TOTAL CAPACITY (kW)	SENSIBLE CAPACITY (kW)	E.A.T. (DB/WB) (°C)	L.A.T. (DB/WB) (°C)	STAGES	HOT GAS REHEAT (YES/NO)	REFRIGERANT	WHEEL AIR FLOW (L/s)	SUMMER				WINTER				MCA/MOC				V/PH/Hz	
																										TOTAL CAPACITY (kW)	SENSIBLE CAPACITY (kW)	L.A.T. (°C)	EFFICIENCY (%)	TOTAL CAPACITY (kW)	SENSIBLE CAPACITY (kW)	L.A.T. (°C)	EFFICIENCY (%)						
AHU-1	EXISTING ROOF	E11-E17	BELT	1,415	375	413	3.0	-	-	-	-	52.7	42.8	11.6	36.6	2	28.8	20.6	25.2/17.9	14.5/12.3	1	YES	R-454B	1,038	14.4	7.9	25.2	78%	48.7	48.7	9.4	57%	53.9/60	208/3/60	780	YORK - KJ090518R2BEBAEZ1 VP028A12H2AL81	- C/W HOT GAS REHEAT & REFRIGERANT LEAK DETECTOR, EXTERNAL PIVOTING ENERGY WHEEL, FIRE ALARM CONTACT, SINGLE POINT POWER		
AHU-2	EXISTING ROOF	E24, E25, E26	BELT	943	375	382	2.0	-	-	-	-	35.2	28.4	13.2	38.2	2	22.3	14.8	25.0/17.9	13.2/11.1	1	YES	R-454B	590	8.1	4.8	25.0	83%	28.3	28.3	13.2	67%	36.7/45	208/3/60	750	YORK - KJ078512R2BEBAEZ1 VP020A12H2AL81	- C/W HOT GAS REHEAT & REFRIGERANT LEAK DETECTOR, EXTERNAL PIVOTING ENERGY WHEEL, FIRE ALARM CONTACT, SINGLE POINT POWER		
AHU-3	EXISTING ROOF	GYM	BELT	1,179	375	385	2.0	-	-	-	-	52.7	42.8	6.9	37.0	2	24.1	16.9	25.8/18.5	15.2/12.9	1	YES	R-454B	1,179	15.8	4.1	25.8	58%	53.1	53.1	8.3	57%	36.7/45	208/3/60	770	YORK - KJ078518R2BEBAEZ1 VP028A12H2AL81	- C/W HOT GAS REHEAT & REFRIGERANT LEAK DETECTOR, EXTERNAL PIVOTING ENERGY WHEEL, FIRE ALARM CONTACT, SINGLE POINT POWER		
AHU-4	EXISTING ROOF	K2 AND K3	BELT	943	375	382	2.0	-	-	-	-	35.2	28.4	13.2	38.2	2	22.3	14.8	25.0/17.9	13.2/11.1	1	YES	R-454B	590	8.1	4.8	25.0	83%	28.3	28.3	13.2	67%	36.7/45	208/3/60	750	YORK - KJ078512R2BEBAEZ1 VP020A12H2AL81	- C/W HOT GAS REHEAT & REFRIGERANT LEAK DETECTOR, EXTERNAL PIVOTING ENERGY WHEEL, FIRE ALARM CONTACT, SINGLE POINT POWER		
AHU-5	NEW ROOF	ROOMS 101, 102, 103, 109, 110, 111, 112, 113, 116, 117, 118, 119	DD w/VFD	3,500	375	1106	10	DD w/VFD	1,800	125	411	2	87.9	71.2	14.5	31.6	2	85	60	25.1/18.2	10.9/10.4	2	YES	R-454B	1,800	19	8.7	26.4	60	59	44.2	7.9	62	139.4/175	208/3/60	1997	TRANE - HORIZON	- C/W HOT GAS REHEAT, REFRIGERANT LEAK DETECTOR, FIRE ALARM CONTACT	
AHU-6	NEW ROOF	ROOMS 120 - 129	DD w/VFD	4,135	375	1102	10	DD w/VFD	1,934	125	328	3	103	83.1	16.1	33.2	2	105	72	24.8/17.9	9.8/9.4	2	YES	R-454B	1,934	24.9	11.4	25.7	70	76.8	57.4	11.4	72	164.5/200	208/3/60	2083	TRANE - HORIZON	- C/W HOT GAS REHEAT, REFRIGERANT LEAK DETECTOR, FIRE ALARM CONTACT	
AHU-7	NEW ROOF	ROOMS 130 - 132	DD w/VFD	1,775	375	773	3	DD w/VFD	648	125	333	1	44.0	35.2	18.5	36.1	2	39.1	28.0	24.4/17.6	10.3/10.0	2	YES	R-454B	648	9.4	4.3	25.1	79	37.1	14.6	14.6	81	74.8/90	208/3/60	1802	TRANE - HORIZON	- C/W HOT GAS REHEAT, REFRIGERANT LEAK DETECTOR, FIRE ALARM CONTACT	
NOTES: 1. FOR DETAILS REFER TO SPECIFICATIONS. 2. MANUFACTURER NAME & MODEL NUMBER REPRESENTS ACCEPTABLE QUALITY STANDARD ONLY. ALTERNATIVE MATERIALS MAY BE APPROVED AFTER REVIEW OF TECHNICAL INFORMATION BY ENGINEER. 3. TYPICAL ENERGY WHEEL CONDITIONS: SUMMER - E.A.T. (°C) SHALL BE 35°C/23.9°C WINTER - E.A.T. (°C) SHALL BE -27.2°C																																							

FIXTURE CONNECTION SCHEDULE										
TAG	FIXTURE TYPE	DCW (Ømm)	DHW (Ømm)	DTW (Ømm)	SAN (Ømm)	NG (Ømm)	BASIS OF DESIGN	DESCRIPTION	ACCESSORIES	
WC1	UNIVERSAL WATER CLOSET WALL MOUNTED AUTO FLUSH VALVE	25	-	-	75	-	AMERICAN STANDARD AFWALL 3353.101	<ul style="list-style-type: none">* WALL MOUNTED VITREOUS CHINA TOILET, ELONGATED BOWL, BOTTOM OUTFLOW, FULLY GLAZED TRAPWAY, EVERCLEAN SURFACE COATING, 6 LPF, MEETS ASME A112.19.2-2008 / CSA B45.1-08* ALL MOUNTING HARDWARE TO BE VANDAL RESISTANT* STAINLESS STEEL FASTENERS.	<ul style="list-style-type: none">* CENTOCO #500STSCSS--001, COMMERCIAL HEAVY DUTY TOILET SEAT, ELONGATED, POLYPROPYLENE SEAT, STAINLESS STEEL HINGE/HARDWARE, OPEN FRONT, NO COVER.* SLOAN ROYAL 140 ESS-1.28-TWO-SWB-2-10-3/4-LDIM-HW SENSOR FLUSHOMETER, 1.28GPF, ROUGH BRASS FINISH, SINGLE FLUSH, HARDWIRED, SENSOR-OPERATED, 13.5" x 13.5" LARGE STAINLESS STEEL COVER.* SLOAN #0345154PK PWT ACCESSORY. EL-154 (BOX MOUNT) 120V AC INPUT/24V AC OUTPUT, 50/60 HZ, 50 VA.	
WC2	BARRIER FREE WATER CLOSET FLOOR MOUNT AUTO FLUSH	25	-	-	75	-	AMERICAN STANDARD MADERA 3463.001	<ul style="list-style-type: none">* FLOOR MOUNTED VITREOUS CHINA TOILET, ELONGATED BOWL, BOTTOM OUTFLOW, FULLY GLAZED TRAPWAY, EVERCLEAN SURFACE COATING, 420MM BOWL HEIGHT, 6 LPF, MEETS ASME A112.19.2-2008 / CSA B45.1-08* ALL MOUNTING HARDWARE TO BE VANDAL RESISTANT* STAINLESS STEEL FASTENERS.	<ul style="list-style-type: none">* CENTOCO #500STSCSS--001, COMMERCIAL HEAVY DUTY TOILET SEAT, ELONGATED, POLYPROPYLENE SEAT, STAINLESS STEEL HINGE/HARDWARE, OPEN FRONT, NO COVER.* FROST TOILET BACKREST - CODE 1028, STAINLESS STEEL FINISH, CONCEALED FASTENING MOUNTING.* SLOAN ROYAL 140 ESS-1.28-TWO-SWB-2-10-3/4-LDIM-HW SENSOR FLUSHOMETER, 1.28GPF, ROUGH BRASS FINISH, SINGLE FLUSH, HARDWIRED, SENSOR-OPERATED, 13.5" x 13.5" LARGE STAINLESS STEEL COVER.* SLOAN #0345154PK PWT ACCESSORY. EL-154 (BOX MOUNT) 120V AC INPUT/24V AC OUTPUT, 50/60 HZ, 50 VA.	
WC3	FLOOR MOUNT MANUAL FLUSH TANK TYPE	25	-	-	75	-	AMERICAN STANDARD CADET 2467.016	<ul style="list-style-type: none">* FLOOR MOUNTED VITREOUS CHINA, ELONGATED BOWL, BOTTOM OUTFLOW, PRESSURE ASSISTED SIPHON JET FLUSH ACTION, FULLY GLAZED TRAPWAY, EVERCLEAN SURFACE COATING, CLOSE COUPLED FLUSHOMETER TANK, 420MM BOWL HEIGHT, 6 LPF, MEETS ASME A112.19.2-2008 / CSA B45.1-08* ALL MOUNTING HARDWARE TO BE VANDAL RESISTANT* STAINLESS STEEL FASTENERS	<ul style="list-style-type: none">* CENTOCO #800STFE--001, COMMERCIAL HEAVY DUTY TOILET SEAT, ELONGATED, POLYPROPYLENE SEAL, CLOSED FRONT, COMMERCIAL HINGE, FULL COVER, STAINLESS STEEL HINGE/HARDWARE	
UR1	URINAL AUTO FLUSH	20	-	-	50	-	AMERICAN STANDARD WASHBROOK FLOWISE 6515.001	<ul style="list-style-type: none">* WALL MOUNTED 0.5LPF, VITREOUS CHINA, WHITE C/W AUTO FLUSH VALVE AND WALL CARRIER* UNIVERSAL BACK SPUD.* ALL MOUNTING HARDWARE SHALL BE VANDAL RESISTANT STAINLESS STEEL FASTENERS.	<ul style="list-style-type: none">* SLOAN ROYAL 195 ESS-1.5-2-10-3/4-LDIM-HW SENSOR FLUSHOMETER, 1.28 GPF, ROUGH BRASS FINISH, HARD WIRED SENSOR OPERATED, 13.5" x 13.5" LARGE STAINLESS STEEL COVER.* SLOAN #0345154PK PWT ACCESSORY. EL-154 (BOX MOUNT) 120V AC INPUT/24V AC OUTPUT, 50/60 HZ, 50 VA.	
LAV1	LAVATORY (METERING FAUCT.)	13	13	-	40	-	AMERICAN STANDARD CADET 9494001.020	<ul style="list-style-type: none">* WALL MOUNT BARRIER FREE VITREOUS CHINA LAVATORY, REAR OVERFLOW, RECESSED SELF-DRAINING DECK, CHROME PLATED GRID STRAINER - METERING FAUCET, WALL CARRIER, MIXING VALVE TYPE MV1(BEHIND ACCESS DOOR WITHIN WALL), SHROUD/KNEE CONTACT GUARD (0059.020), WALL CARRIER	<ul style="list-style-type: none">* DELTA MODEL 871111 SINGLE HOLE MOUNT, SINGLE LEVER HANDLE METERING FAUCET, 0.25 GPC, COVERPLATE, TWO HOLDOWN SHANKS, HEAVY DUTY CAST BRASS, POLISHED CHROME PLATED, VANDAL RESISTANT ADA LEVER HANDLE, METERING SLOW CLOSE CARTRIDGE, ANSI A112.18.1, INTEGRAL SHANK FILTER, ADA COMPLIANT, AND MOUNTING HARDWARE, VANDAL RESISTANT, AND MIXING VALVE.	
LAV2	BARRIER FREE LAVATORY (ELECTRONIC FAUCT.)	13	13	-	40	-	AMERICAN STANDARD MURRO 0954.000	<ul style="list-style-type: none">* WALL MOUNT BARRIER FREE VITREOUS CHINA LAVATORY, REAR OVERFLOW, RECESSED SELF-DRAINING DECK, CHROME PLATED GRID STRAINER - ELECTRONIC SENSOR FAUCET, 1.9LPM, BELOW DECK MIXING VALVE C/W INSTALLATION KIT, SHROUD/KNEE CONTACT GUARD (0059.020), WALL CARRIER	<ul style="list-style-type: none">* MOEN M POWER ELECTRONIC FAUCET 8553 SERIES, CHROME HANDS FREE SENSOR, ESCUTCHEON PLATE TO SUIT LAVATORY HOLE COUNT, SINGLE MOUNT, VANDAL RESISTANT, 0.5 GPM, TO ANSI A112.18.1., ADA COMPLIANT, C/W MIXING VALVE MV1, AND C/W 120V LINE VOLTAGE AC TRANSFORMER AND CONTROL.	
LAV3	LAVATORY (METERING FAUCT.)	13	13	-	40	-	AMERICAN STANDARD CADET 9494001.020	<ul style="list-style-type: none">* WALL MOUNT BARRIER FREE VITREOUS CHINA LAVATORY, REAR OVERFLOW, RECESSED SELF-DRAINING DECK, CHROME PLATED GRID STRAINER - METERING FAUCET, WALL CARRIER, MIXING VALVE TYPE MV1(BEHIND ACCESS DOOR WITHIN WALL), SHROUD/KNEE CONTACT GUARD (0059.020), WALL CARRIER	<ul style="list-style-type: none">* DELTA MODEL 871111 SINGLE HOLE MOUNT, SINGLE LEVER HANDLE METERING FAUCET, 0.25 GPC, COVERPLATE, TWO HOLDOWN SHANKS, HEAVY DUTY CAST BRASS, POLISHED CHROME PLATED, VANDAL RESISTANT ADA LEVER HANDLE, METERING SLOW CLOSE CARTRIDGE, ANSI A112.18.1, INTEGRAL SHANK FILTER, ADA COMPLIANT, AND MOUNTING HARDWARE, VANDAL RESISTANT, AND MIXING VALVE.	
S1	STAINLESS STEEL SINGLE BOWL	13	13	-	40	-	KINDRED QSL2020-7-3	<ul style="list-style-type: none">* SINGLE COMPARTMENT SELF RIMMING, 3 HOLE DROP-IN SINK WITH FAUCET LEDGE, 18 GAUGE, TYPE 316 STAINLESS STEEL 200mm DEEP. C/W WASTE FITTING, FACTORY APPLIED RIM SEAL, AND FACTORY INSTALLED FASTENERS. CERTIFIED TO ASME A112.19.3-2008 / CSA B45.4-08, CENTRE WASTE LOCATION, 3 1/2", TYPE 316 STAINLESS STEEL CRUMP CUP STRAINER WITH 1 1/2" STAINLESS STEEL TAILPIECE.	<ul style="list-style-type: none">* C/W DELTA 26C3232, TWO HANDLE 200mm CENTER DECK MOUNT FAUCET	
SS1	SERVICE SINK	13	13	-	75	-	FIAT MSB-2424	<ul style="list-style-type: none">* MOLDED STONE MOP SERVICE BASIN 610mm X 610mm X 254mm. FAUCET SHALL BE COMPLETE WITH INTEGRAL SERVICE STOPS, CHECK VALVES AND VACUUM BREAKER	<ul style="list-style-type: none">* C/W MOP BRACKET 889 CC, STAINLESS STEEL WALL GUARDS, HOSE AND BRACKET 832 AA & 830-AA FAUCET. 1453 BB FLAT STAINLESS STEEL STRAINER. PROVIDE DIVERTER PRESSURE BLEED VALVE (HYDROSYSTEMS PRESSURE BLEED DUAL VALVE OR EQUAL).	
FD1	STANDARD FLOOR DRAIN	-	-	-	75	-	WATTS FD-200-A	<ul style="list-style-type: none">* STD. FLOOR DRAIN 127mm (5") STR. DIA. EPOXY COATED CAST IRON NICK. BRNZ. STRAINER ADJUSTABLE PRIMER TAPPING.	-	
FD2	FUNNEL FLOOR DRAIN	-	-	-	75	-	WATTS FD-200-A	<ul style="list-style-type: none">* STD. FLOOR DRAIN 127mm (5") STR. DIA. EPOXY COATED CAST IRON NICK. BRNZ. STRAINER ADJUSTABLE PRIMER TAPPING.	<ul style="list-style-type: none">* C/W 4" ROUND NICKEL BRONZE FUNNEL	
RD1	LARGE AREA ROOF DRAIN	-	-	-	100 STORM	-	WATTS RD-100-F-D-K80-AUJ	<ul style="list-style-type: none">* LARGE AREA ROOF DRAIN EPOXY COATED CAST IRON ROOF DRAIN WITH FLASHING CLAMP WITH INTEGRAL GRAVEL STOP, REVERSIBLE ZINC PLATED STEEL ADJUSTABLE EXTENSION FLANGE, UNDER DECK CLAMP, VANDAL PROOF CAST IRON DOME.	-	
MV1	MIXING VALVE	40	40	-	-	-	WATTS INTELLUSTATION 2	<ul style="list-style-type: none">* PROGRAMMABLE DIGITAL WATER MIXING VALVE, LEAD FREE CONSTRUCTION, INTEGRAL CHECK VALVES, TOUCH SCREEN DISPLAY, BAS CONNECTIVITY	-	
ES1	COMBINATION EMERGENCY SHOWER/ EYE WASH	32	32	40	-	-	BRADLEY S19314-AATCBAB00	<ul style="list-style-type: none">* FLOOR MOUNT, BARRIER FREE ACCESSIBLE DRENCH SHOWER/EYE WASH COMBINATION STATION. SS HALO EYE/FACE SPRAY, HALO RING, 13MM DIA STAY-OPEN BALL VALVE	<ul style="list-style-type: none">* C/W EMV1, S19-2300 EFX125 EMERGENCY THERMOSTATIC MIXING VALVE	
NOTES: 1. COORDINATE EXACT PIPING LOCATIONS ON SITE AND COORDINATE WITH ALL ARCHITECTURAL DETAILS FOR FIXTURE ELEVATIONS AND MOUNTING REQUIREMENTS. DO NOT ATTACH FIXTURE TO FACE BLOCK, SECURE TO RECESSED CARRIERS AS PER MANUFACTURER'S RECOMMENDATIONS. 2. VENT TO MEET OBC REQUIREMENTS, VENTING THROUGH SLOPED ROOFS NOT PERMITTED. 3. ALL FIXTURES IDENTIFIED AS BUILT-IN BASINS BY GENERAL TRADES. ALL OTHER ASSOCIATED ACCESSORIES AND TRIM BY MECHANICAL. ALL PIPEWORK TO BE INSTALLED NEATLY AND COORDINATED WITH ALL OTHER TRADES. 4. MANUFACTURER NAME & MODEL NUMBER REPRESENT SCHOLOBORD APPROVED BASIS OF DESIGN. 5. MINIMUM UNDERGROUND SANITARY PIPING SIZE TO BE 50#. 6. INSTALLATION OF SINK TO COMPLY WITH LATEST EDITION OF CSA B651 STANDARD FOR BARRIER-FREE ACCESS. INSULATE DOMESTIC HOT WATER AND DRAIN PIPING UNDER COUNTER. SEE ARCH. DWG FOR DETAILS. ACCEPTABLE MATERIAL: SKALLGUARD WHITE OR MINERAL FIBRE WITH WHITE PVC JACKET. 7. ALL WIRING AND TRANSFORMERS FOR POWERED FIXTURES MUST BE HIDDEN IN WALL AND OR ACCESSIBLE CEILING SPACE. PROVIDE POWDER COATED WHITE ACCESS DOOR TO CONCEAL ELECTRICAL EQUIPMENT, GROUP ACCESS DOORS WHERE POSSIBLE TO REDUCE QUANTITIES. COORDINATE RECEPTACLE LOCATIONS WITH DW 216.										

PUMP SCHEDULE											
TAG	LOCATION	FUNCTION	TYPE	PUMP DATA				ELECTRICAL DATA		BASIS OF DESIGN	REMARKS
				DESIGN FLOW (L/s)	DESIGN HEAD (kPa)	RPM	MIN. EFFICIENCY (%)	MOTOR SIZE (HP)	V/Ph/Hz		
P-1	MECHANICAL ROOM	DHW RECIRCULATION	CENTRIFUGAL	0.1	160	3,450	–	1.8	120/1/60	GRUNDFOS UPS 40–240	DCW RATED, MULTI-SPEED
P-2	MECHANICAL ROOM	HEATING WATER	CENTRIFUGAL	1.9	280	3,447	51.7	2	208/3/60	ARMSTRONG 4300 DEPM	ECM MOTOR, SENSORLESS PUMP WITH INTEGRATED CONTROLS
P-3	MECHANICAL ROOM	HEATING WATER	CENTRIFUGAL	1.9	280	3,447	51.7	2	208/3/60	ARMSTRONG 4300 DEPM	ECM MOTOR, SENSORLESS PUMP WITH INTEGRATED CONTROLS
NOTES: 1. FOR DETAILS REFER TO SPECIFICATIONS.											

EXPANSION TANK SCHEDULE											
TAG	LOCATION	FUNCTION	TYPE	OPERATING PRESSURE		OPERATING TEMPERATURE		TANK VOLUME (L)	ACCEPTANCE VOLUME (L)	ORIENTATION	BASIS OF DESIGN
				MIN (kPa)	MAX (kPa)	MIN (°C)	MAX (°C)				
ET-1	WATER ENTRY ROOM	DOMESTIC HOT WATER	BLADDER	275	551	10	60	200	200	VERTICAL	AMTROL ST-447C
ET-2	MECHANICAL ROOM	HEATING WATER LOOP	BLADDER	83	680	10	85	63	43	VERTICAL	AMTROL AX-20V-DD
NOTES: 1. FOR DETAILS REFER TO SPECIFICATIONS. 2. PRE-CHARGE PRESSURE TO BE EQUIVALENT TO MINIMUM OPERATING PRESSURE.											

BOILER SCHEDULE											
TAG	LOCATION	FLOW (L/s)	DELTA TEMP. (°C)	PRESSURE DROP (kPa)	INPUT (kW)	OUTPUT (kW)	EFFICIENCY (%)	TYPE	V/PH/Hz	BASIS OF DESIGN	REMARKS
B1	MECHANICAL ROOM	2.2	14.4	–	146	135	92.4	CONDENSING	120/1/60	VISSMANN VITOCROSSAL 200	C/W CONTROLLER FOR CASCADE OPERATION, CONDENSATE NEUTRALIZER, OUTDOOR TEMPERATURE SENSOR, BOILER PUMP
B2	MECHANICAL ROOM	2.2	14.4	–	146	135	92.4	CONDENSING	120/1/60	VISSMANN VITOCROSSAL 200	C/W CONTROLLER FOR CASCADE OPERATION, CONDENSATE NEUTRALIZER, OUTDOOR TEMPERATURE SENSOR, BOILER PUMP
NOTES: 1. FOR DETAILS REFER TO SPECIFICATIONS. 2. MANUFACTURER NAME & MODEL NUMBER REPRESENT ACCEPTABLE QUALITY STANDARD ONLY. 3. BOILERS TO BE CONFIGURED FOR CASCADE OPERATION. BOILER PLANT TO INCLUDE A LOW LOSS HEADER, PRIMARY PUMPS, CONTROLLER, AND ASSOCIATED SENSORS.											

TRANSFER FAN SCHEDULE								
TAG	LOCATION	TYPE	AIR FLOW (L/s)	FAN SPEED (RPM)	ELECTRICAL DATA		BASIS OF DESIGN	REMARKS
					MOTOR SIZE (HP)	V/PH/Hz		
TF-01	ELECTRICAL ROOM	-	-	-	-	120/1/60	BANVIL 2000-160C7	REVERSIBLE MOTOR & SPEED CONTROLLER, INDUSTRIAL GUARD FG60C, 250mm DOWNROD, COLOUR WHITE.
NOTES: 1. FOR DETAILS REFER TO SPECIFICATIONS.								

-	ISSUED FOR TENDER R2	2026-04-01
-	ISSUED FOR TENDER	2026-02-10
-	ISSUED FOR PERMIT	2025-12-10
-	ISSUED FOR CO-ORDINATION	2025-11-19
-	ISSUED FOR SITE PLAN	2025-10-31
-	ISSUED TO HYDRO ONE	2025-10-31
-	ISSUED FOR 80% REVIEW	2025-10-14
-	ISSUED FOR 50% REVIEW	2025-09-17

no.	revision	date
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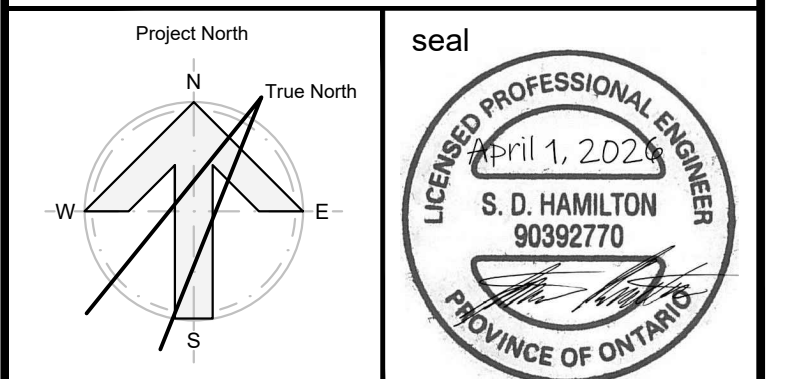
N45 ARCHITECTURE INC.

71 Bank Street, 7th Floor - Ottawa, Ontario, K1P 5N2
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UPPER CANADA DISTRICT
SCHOOL BOARD

CAMBRIDGE PUBLIC SCHOOL

2123 RTE 500 W
EMBRUN, ON



drawing title
NEW ADDITION EAST WING
FIRE PROTECTION NEW
WORK

scale AS SHOWN	drawn by P. AZDAJIC, M. DE CESARE
date 2025	checked by S. HAMILTON
project number 2025-385	drawing number M1.2

CONTRACTOR TO VERIFY ALL DIMENSIONS AND
NOTIFY THE ARCHITECT OF ANY DISCREPANCIES
BEFORE WORK COMMENCES.

revision

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DO NOT SCALE DRAWINGS

DRAWING NOTES

- COORDINATE WITH ALL OTHER TRADES.
- ALL SIZES INDICATED ON DRAWINGS ARE FOR COORDINATION PURPOSES ONLY. FIRE PROTECTION CONTRACTORS/ENGINEER TO VALIDATE ALL PIPE SIZES THROUGH DETAILED PIPE LAYOUT AND HYDRAULIC CALCULATIONS AS PER SPECIFICATIONS.
- PROPOSED SPRINKLER MAIN LOCATION SHALL BE COORDINATED BY F.P. CONTRACTOR WITH ALL OTHER TRADES.
- REFERENCE ARCHITECTURAL DRAWINGS FOR CEILING TYPES & ELEVATIONS.
- PROVIDE SPRINKLER SYSTEM COVERAGE FOR ALL AREAS IN ACCORDANCE WITH NFPA-13 REQUIREMENTS.
- SPRINKLER PIPE LOCATION SHOWN FOR GUIDANCE AND COORDINATION PURPOSES ONLY. INSTALL ACCORDING TO SPRINKLER CONTRACTORS DRAWINGS AND COORDINATE WITH ALL OTHER TRADES; ALLOW FOR OFFSETS.
- PROVIDE HOSE END VALVE WITH CHAIN AND CAP AT ALL LOW POINTS TO ALLOW FOR DRAINAGE.
- PRIOR TO SUBMITTING TENDER, CONTRACTOR TO REVIEW ARCHITECTURAL CEILING PLANS AND DETAILS TO INCLUDE FOR ALL PROVISIONS OF NFPA 13 INCLUDING FOR REQUIREMENTS FOR SPRINKLER ABOVE CEILINGS OR BELOW DUCTWORK.
- PROVIDE FIRE EXTINGUISHER AS INDICATED.

SPRINKLER ZONE S-1
ORDINARY HAZARD GROUP 1 DESIGN AREA
140 m² AT 6.1 mm/min DENSITY
MAX. 12 m² / SPRINKLER HEAD

SPRINKLER ZONE S-1
LIGHT HAZARD DESIGN AREA
140 m² AT 4.1 mm/min DENSITY
MAX. 20.9 m² / SPRINKLER HEAD

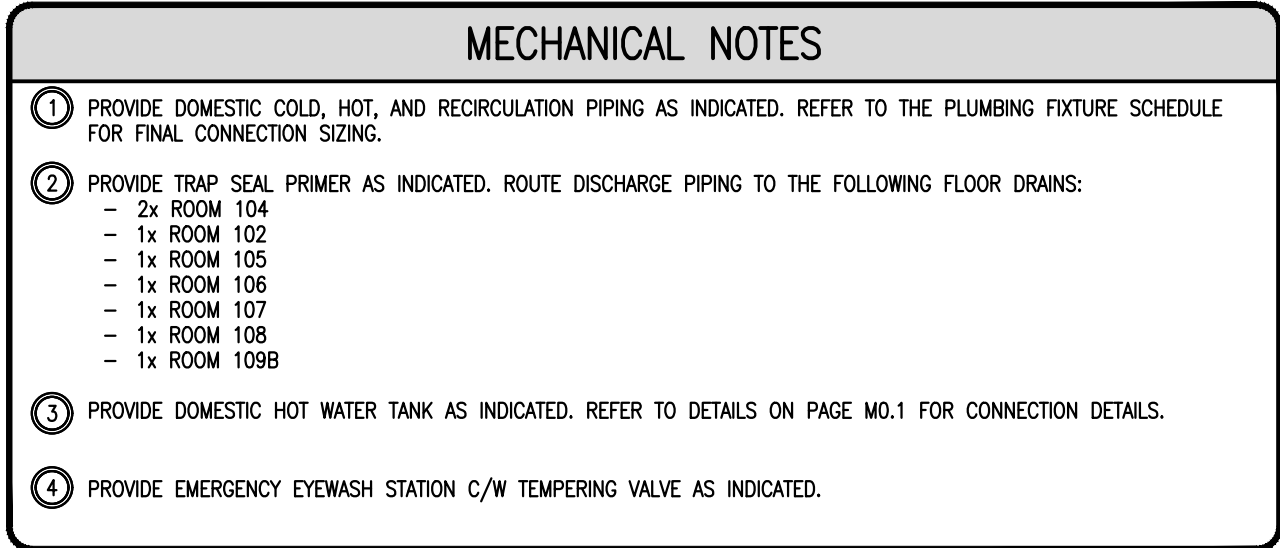
REFER TO M2.1 FOR WATER
ENTRY ROOM AND FIRE
PROTECTION MAIN ROUTING
IN EXISTING SCHOOL

REFER TO M41.1 FOR CONTINUATION

1 NEW ADDITION - EAST WING - HVAC - NEW WORK

M1.2

1:100



REFER TO M2.4 FOR CONTINUATION



-	ISSUED FOR TENDER R2	2026-04-01
-	ISSUED FOR TENDER	2026-02-10
-	ISSUED FOR PERMIT	2025-12-10
-	ISSUED FOR CO-ORDINATION	2025-11-19
-	ISSUED FOR SITE PLAN	2025-10-31
-	ISSUED TO HYDRO ONE	2025-10-31
-	ISSUED FOR 80% REVIEW	2025-10-14
-	ISSUED FOR 50% REVIEW	2025-09-17
no.	revision	date



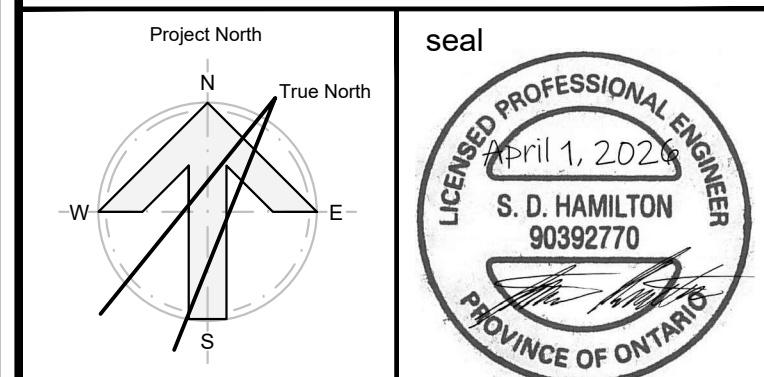
N45 ARCHITECTURE INC.

71 Bank Street, 7th Floor - Ottawa, Ontario, K1P 5N2
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UPPER CANADA DISTRICT
SCHOOL BOARD

CAMBRIDGE PUBLIC SCHOOL

2123 RTE 500 W
EMBRUN, ON



drawing title
NEW ADDITION - EAST WING
- PLUMBING NEW WORK

scale AS SHOWN	drawn by P. AZDAJIC, M. DE CESARE
date 2025	checked by S. HAMILTON
project number 2025-385	drawing number M2.5

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE WORK COMMENCES.	r
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DO NOT SCALE DRAWINGS

vision

C