REPLACEMENT OF ROOF TOP UNITS POA COURTHOUSE



5 RAY LAWSON BOULEVARD, BRAMPTON, ON

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
200W	POWER REQUIREMENT FOR ELECTRIC TRACING	P.E.	PNEUMATIC-ELECTRIC
(************)	ELECTRIC PIPE DEVICE FOR SINGLE LINE PIPES	С	CONTROLLER
	ELECTRIC PIPE DEVICE FOR DOUBLE LINE PIPES	TS	TEMPERATURE SENSOR
M.C.C.	MOTOR CONTROL CENTRE	нѕ	HUMIDITY SENSOR
D.S.	DISCONNECT SWITCH	BAS	POWER OUTLET FOR B.A.S.
	SWITCH (MANUAL STARTER)		AIR FLOW MONITORING STATION
H.O.A.	HAND-OFF-AUTO	S	STATIC
FZ	LOW TEMPERATURE THERMOSTAT	VFD	VARIABLE FREQUENCY DRIVE
FS	HIGH TEMPERATURE THERMOSTAT	СО	CARBON MONOXIDE SENSOR
Т	ELECTRIC THERMOSTAT/SENSOR	RS	REFRIGERANT SENSOR
T	PNEUMATIC THERMOSTAT/SENSOR	CO2	CARBON DIOXIDE SENSOR
BAS	BASE BUILDING AUTOMATION SYSTEM	NO2	NITROGEN OXIDE SENSOR
Fs	FLOW SWITCH	A.F.S.	AIR FLOW STATION
<u>s</u>	SPEED SWITCH	PS	PRESSURE SENSOR
×	FLOW MONITORING WATER		
NOTE: NOT ALL	SYMBOLS APPLY, REFER TO FLOOR PLANS A	ND DRAWINGS	1

BASE BUILDING CONTRACTORS

BUILDING AUTOMATION SYSTEM (BAS) AINWORTH INC. PRITESH PATEL - pritesh.patel@ainsworth.com

FIRE ALARM CONTRACTORS - ML FIRE

ADAM – service@mlfire.com 905-889-8276

BASE BUILDING CONTRACTORS MUST BE USED FOR THE FOLLOWING WORK:

1. ANY/ALL CONTROLS RELATED OR BAS WORK.

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION			
	SUPPLY DUCT UP OR FROM ABOVE		ACOUSTICALLY LINED TRANSFER AIR DUCT			
	SUPPLY DUCT DOWN OR FROM BELOW		SILENCER			
	RETURN OR EXHAUST DUCT UP OR FROM ABOVE	CTS	CROSSTALK SILENCER			
	RETURN OR EXHAUST DUCT DOWN OR FROM BELOW		DUCT WITH MINIMUM CLEARANCE FIRE RATE ENCLOSURE			
	ROUND DUCT UP OR FROM ABOVE	F/D	DUCT WITH SLEEVE, INSULATION AND DAMPER			
	ROUND DUCT DOWN OR FROM BELOW	САР	CAPPED CONNECTION			
	ACOUSTIC LINED DUCT		INSULATION DUCT			
	FLEXIBLE CONNECTION	RISE UP	RISE IN DUCT			
(C)	SQUARE ELBOW DUCT WITH TURNING VANE	SLOPE DN	DROP IN DUCT			
	RADIUS ELBOW WITH TURNING VANES	■ S.B.	SOUND BAFFLE			
	AXIAL FAN/INLINE FAN	MOD MOD	PROPELLER FAN WITH PROTECTIVE SCREEN			
	MIXED FLOW OR CENTRIFUG	\Box	CENTRIFUGAL FAN (ONLY IN SCHEMATIC)			
DIFFUSER GRILLE OR REGISTER TYF IMPERIAL: CFM,[IN METRIC: L/s,[mm]	P4 1500	LINEAR SLOT DIFFUSER — AIR FLOW (L/S) —	S4 150ØX1200mm NECK SIZE AND LINEAR DIFFUSER LENGTH (MM)			
<u>(⊙)</u> →	ROUND SUPPLY DIFFUSER		LINEAR SUPPLY AIR DIFFUSER C/W FLEXIBLE DUCT			
Øi↔	DUCTED RETURN OR EXHAUST REGISTER OR GRILLE	0	LIGHT TROFFER DIFFUSER TOP INLET C/W FLEXIBLE DUCT			
[⊗]-↔	SQUARE OR RECTANGULAR DIFFUSER		LIGHT TROFFER DIFFUSER SIDE INLET C/W FLEXIBLE DUCT			
₩/	NON DUCTED RETURN OR EXHAUST GRILLE		DUCT MOUNTED SUPPLY OR RETURN GRILLE			
→⊙	NON DUCTED ROUND RETURN OR EXHAUST GRILLE		LINEAR SUPPLY OR RETURN GRILLE			
			SPIN-IN CONNECTION C/W BALANCING DAMPER AND FLEX DUCT			
· - + +	SQUARE PLAQUE DIFFUSER					

AIR HANDLING SYMBOLS (MSD-012.10)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
\bowtie	GATE OR ISOLATION VALVE (REFER TO SPECIFICATION)		PIPE GUIDE
	GLOBE VALVE		PIPE SLEEVE
ΙФΙ	BALL VALVE	×	ANCHOR
\boxtimes	LOCKSHIELD VALVE		STRAINER
FBV	FLOW BALANCING VALVE	————	UNION
PIFBV	PRESSURE INDEPENDENT FLOW BALANCIN VALVE	G	FLANGE FITTING
\forall	PLUG VALVE		ECCENTRIC FITTING
P.R.V.	PRESSURE REDUCING VALVE		CONCENTRIC FITTING
Ň	CHECK VALVE	$ \bowtie$ - \bowtie - \bowtie -	PRESSURE GAUGE
B	SOLENOID VALVE	T	THERMOMETER
S.R.V.	SAFETY RELIEF VALVE	— ф—②	PRESSURE GAUGE COCK ASSEMBLY
FMS	FLOW METERING STATION	T.W.	THERMOMETER WELL
B.P.	BACKFLOW PREVENTOR	E.J.	EXPANSION JOINT
M	ANGLE VALVE		MANUAL AIR VENT
/	BUTTERFLY VALVE	A.V.	AUTOMATIC AIR VENT
<u>√</u> _ <u>Z</u>	2-WAY BUTTERFLY VALVE	SA.S	AIR SEPARATOR
\\\	TEMPERED MIXING VALVE		SIGHT GLASS
L _T	TEINITEINED INIAING VALVE	<u></u>	PUMP
M	FLEXIBLE JOINT	₩₩	P.R.V. C/W SHUT-OFF VALVE
VB	VACUUM BREAKER		
B.W.V.	BACK WATER VALVE	WHA	WATER HAMMER ARRESTOR

4 VALVES AND APPURTENANCES

M-000 (MSD-012.06)

BASE BUILDING CONTRACTORS

DRAWING NUMBER	DRAWING TITLE	SCALE
M000	DRAWING LIST AND LEGEND	N.T.S.
M001	MECHANICAL DETAILS	N.T.S.
M002	EQUIPMENT SCHEDULE	N.T.S.
M200	DOMESTIC HOT WATER SCHEMATIC	N.T.S.
M400	BOILER ROOM PLAN — MECHANICAL LAYOUT	1:50
M401	ROOFTOP PLAN - DEMOLITION LAYOUT	1:100
M402	ROOFTOP PLAN - NEW LAYOUT	1:100
M800	CONTROL SCHEMATICS	N.T.S.
M801	CONTROL SCHEMATICS	N.T.S.

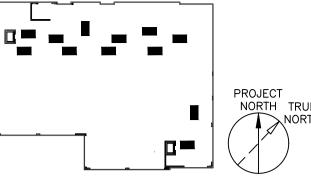
SHEET LIST TABLE

1 MECHANICAL DRAWING LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
6 M-01	— DETAIL NUMBER — DRAWING NUMBER	12 M-01	– SECTION NUMBER – DRAWING NUMBER
4	REVISION NUMBER		REVISION BUBBLE
R.I.O.	ROUGH IN ONLY	N.O.	NORMALLY OPEN
R.I.C.	ROUGH IN AND CONNECT	N.C.	NORMALLY CLOSED
A/D	ACCESS DOOR	S.S.	STAINLESS STEEL
 5	PIPING SERVICE CONTINUES	t_OR_	ELBOWS
55	REFER TO STANDARD DETAIL DRAWINGS FOR ADDITIONAL REQUIREMENTS OF EQUIPMENT NOTED	,±,	TEE
_ = == =	EQUIPMENT/PIPING/DUCTWORK SHOWN DASHED BELOW		BRANCH OFF BOTTOM OF MAIN
	PIPING INTERSECTS PIPING BELOW		BRANCH OFF TOP OF MAIN
	PIPE DROP OR FROM BELOW	\longrightarrow	DIRECTION OF FLOW
─	PIPE UP OR FROM ABOVE	CTE	CONNECT TO EXISTING
CAP	CAPPED CONNECTION	EX. NEW	CONNECT TO EXISTING
T.B.	THRUST BLOCK		
GM	GAS METER		
NOTE: NOT ALL	SYMBOLS APPLY, REFER TO FLOOR PLANS A	ND DRAWINGS	

GENERAL AND SITE PLAN SYMBOLS AND ABBREVIATIONS (MSD-012.01)

WORK AND REPORT ANY DISCREPANCY TO THE CONSULTANT BEFORE PROCEEDING. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL AUTHORIZED IN



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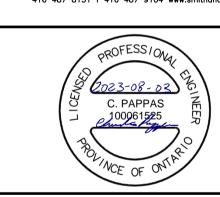
PROJECT CONTACT

ı	NAME:	TONY YING
l	TEL:	647-475-3957
l	EMAIL:	tony.ying@smithandandersen.com

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH MECHANICAL SPECIFICATION SUBMITTED FOR THIS PROJECT.



Smith + Andersen 1100 — 100 Sheppard Ave. East, Toronto On, M2N 6N5 416 487 8151 f 416 487 9104 www.smithandandersen.com





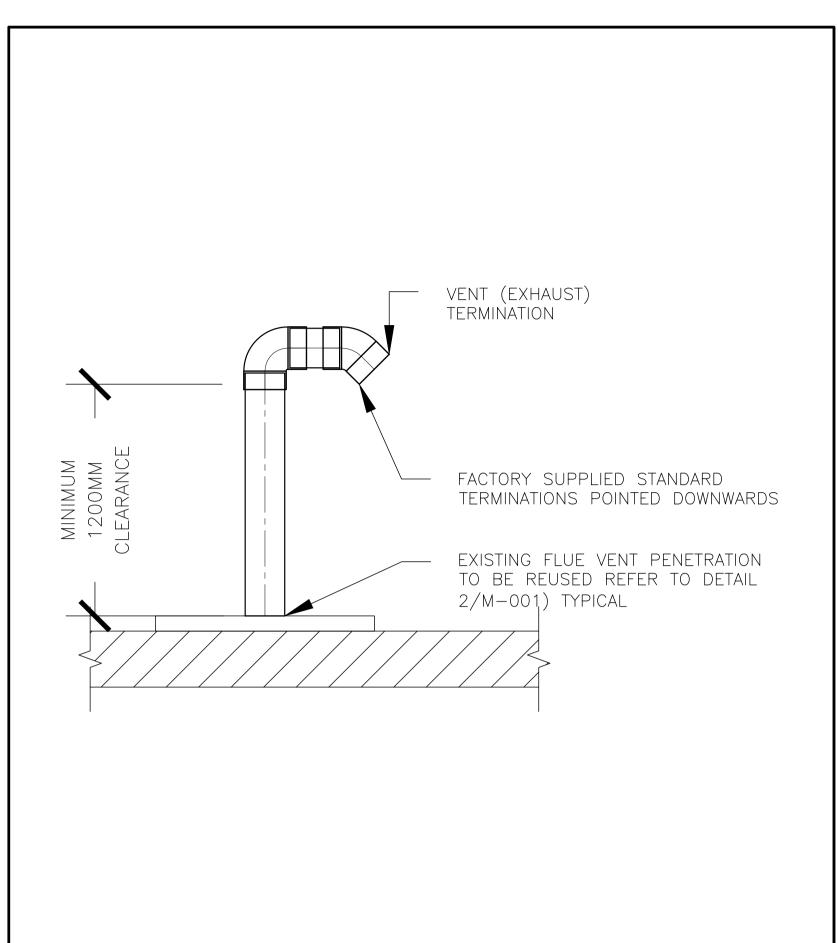
REPLACEMENT OF ROOF TOP UNITS- POA COURTHOUSE

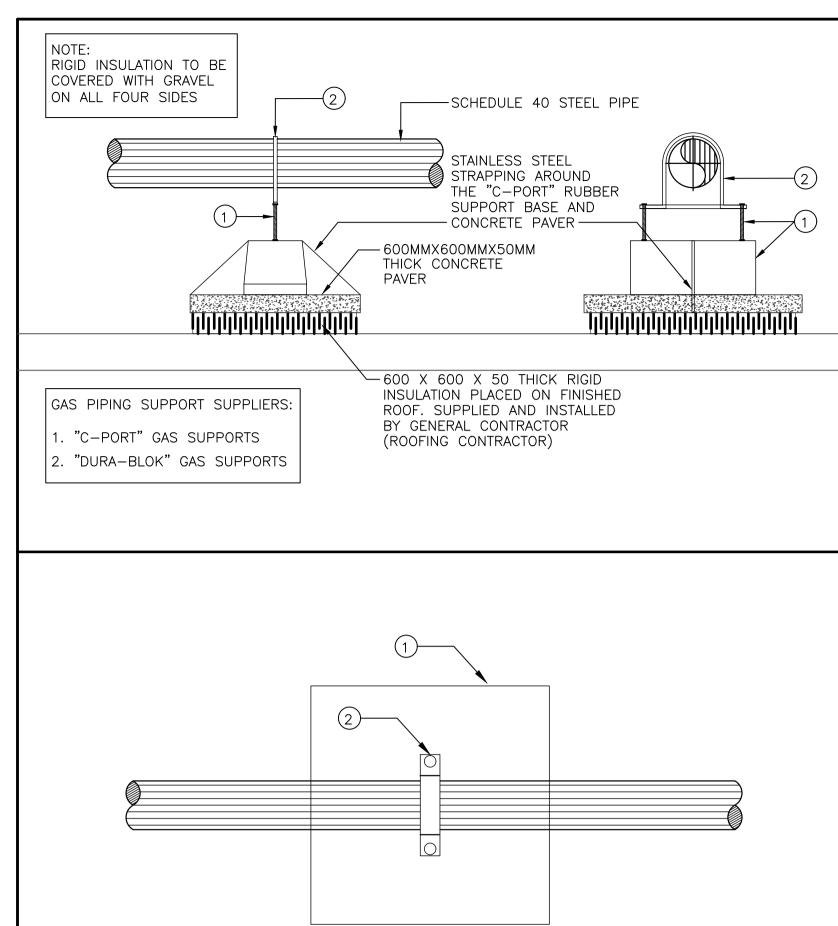
5 RAY LAWSON BOULEVARD BRAMPTON, ONTARIO CITY OF BRAMPTON SHEET TITLE:

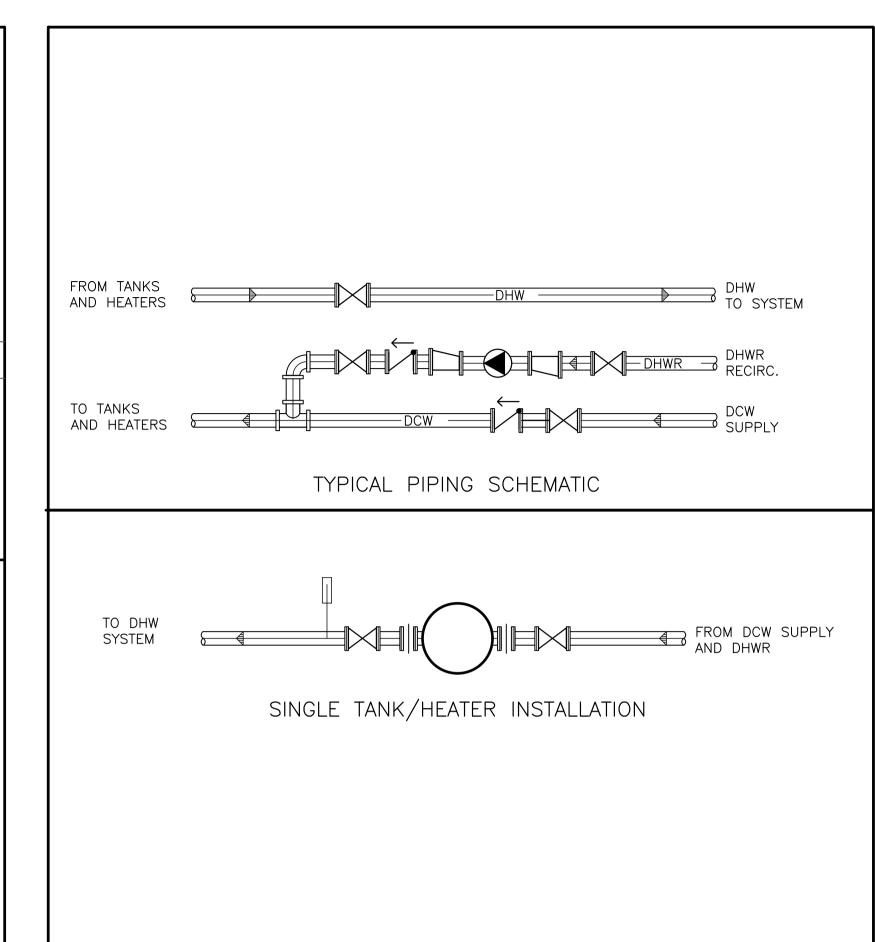
DRAWING LIST AND LEGEND

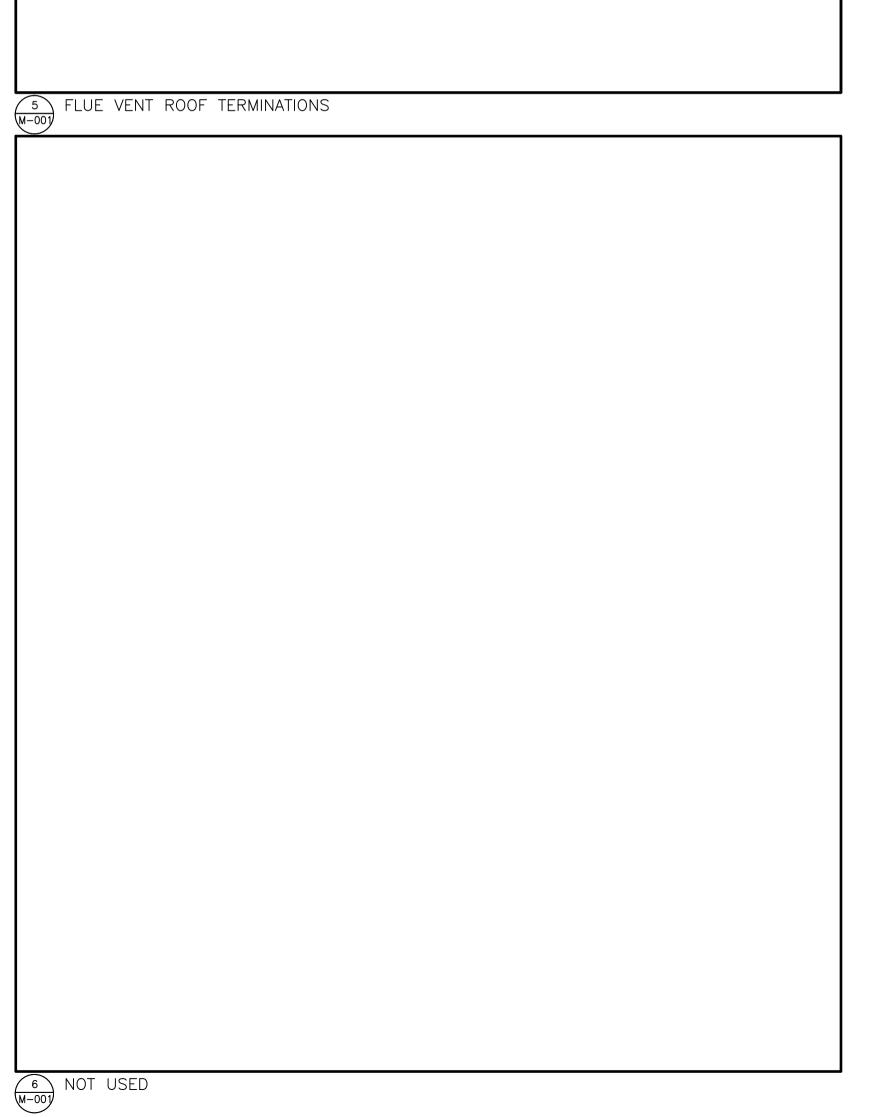
PROJECT NUMBI 213	ER: 344.002.M.002	
DRAWING SCALE	:	
N.T.S.		
DRAWN BY:	CHECKED BY:	PLOT DATE:
TY	CP	2023-05-10

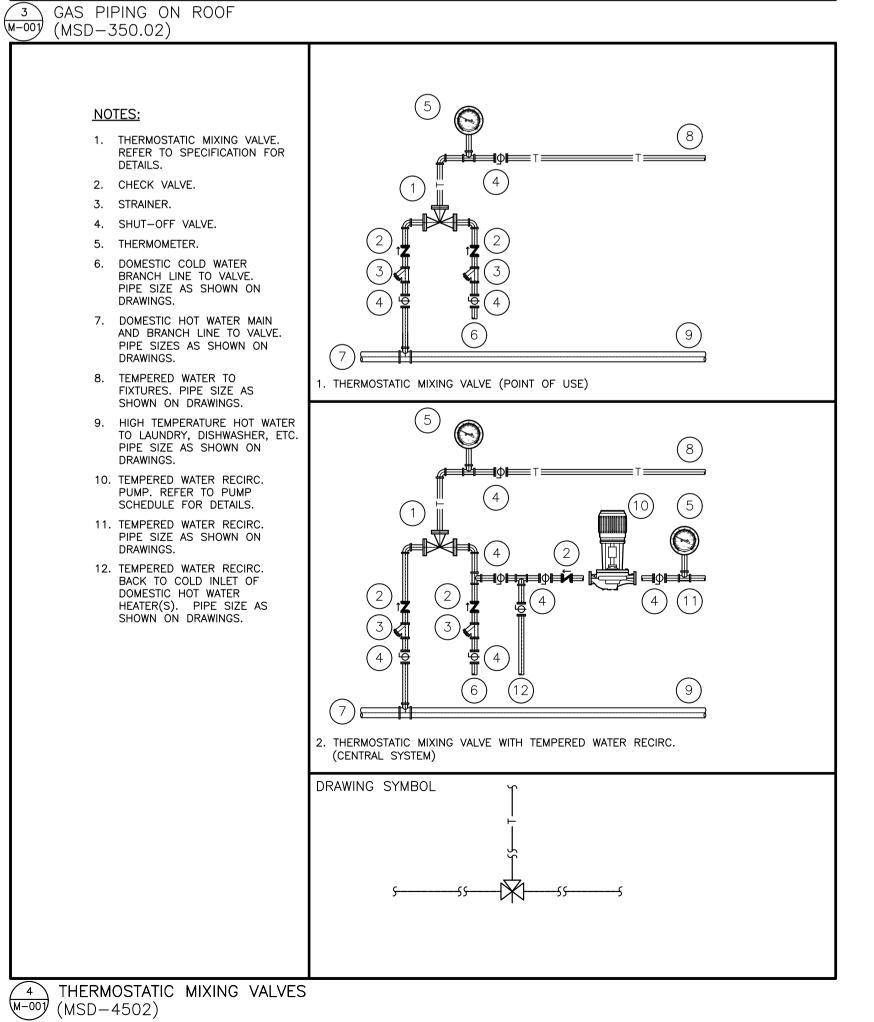


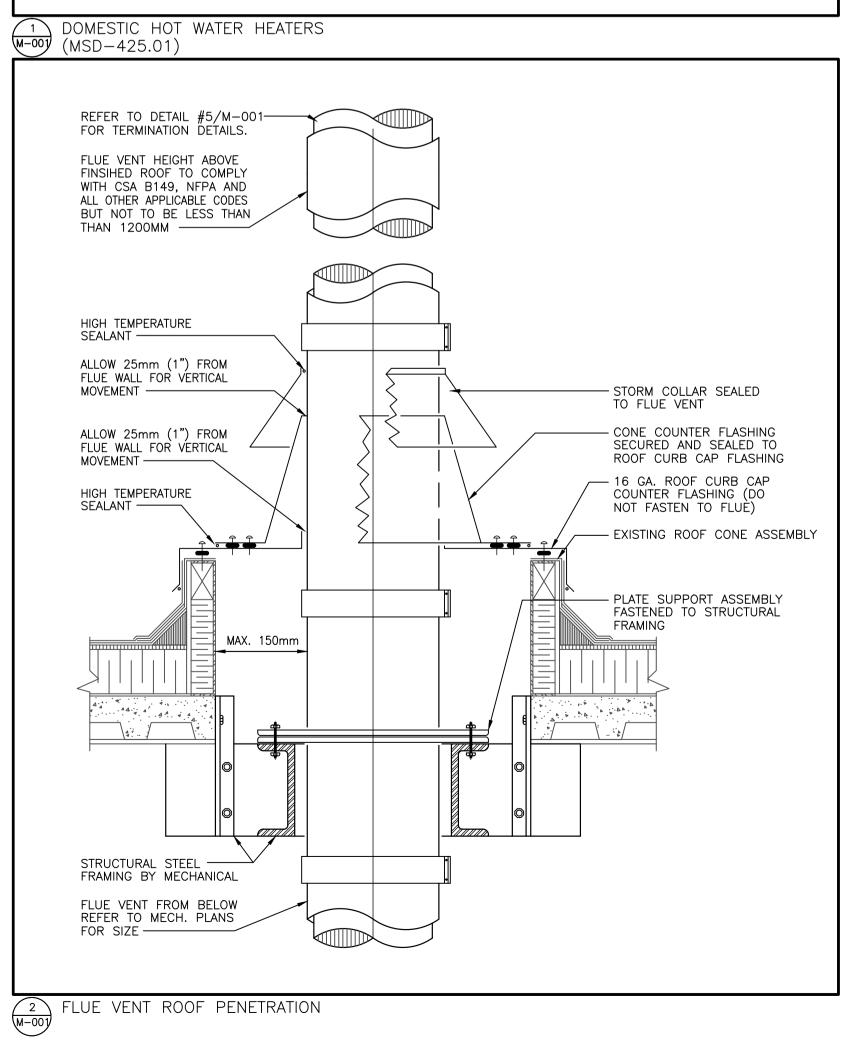




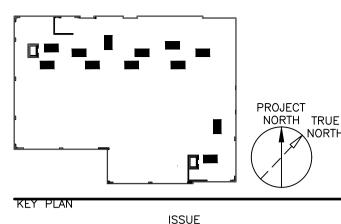








CONTRACTOR SHALL CHECK ALL DIMENSIONS ON THE WORK AND REPORT ANY DISCREPANCY TO THE CONSULTANT BEFORE PROCEEDING. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL AUTHORIZED IN WRITING BY CONSULTANT.



		ISSUE
NO.	DATE	DESCRIPTION
1	2023.06.30	ISSUED FOR CLIENT REVIEW
2	2023.08.02	ISSUED FOR TENDER

PROJECT CONTACT

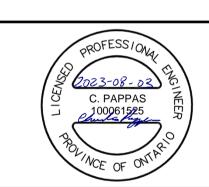
NAME:	TONY YING
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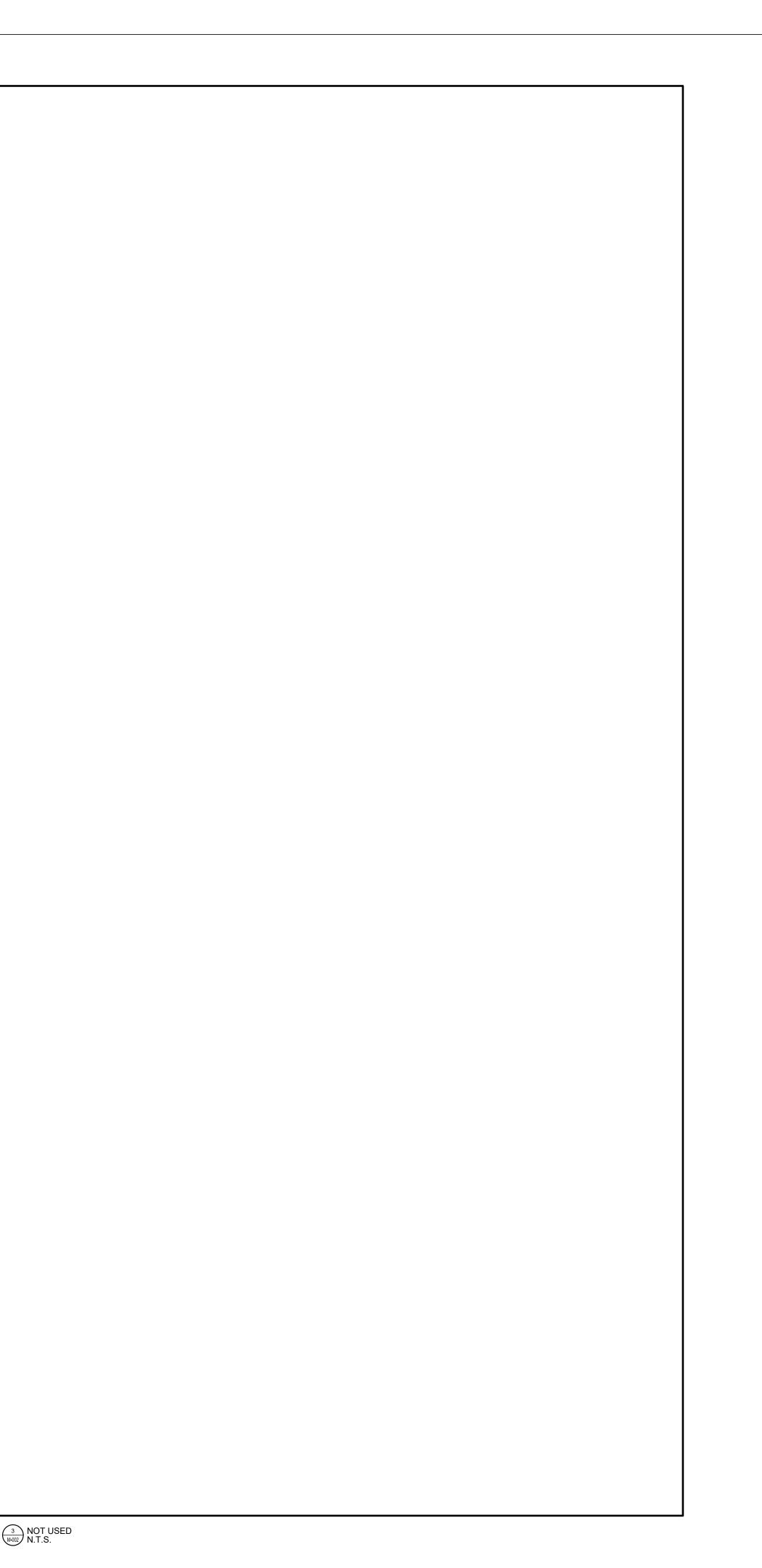


REPLACEMENT OF ROOF
TOP UNITS— POA
COURTHOUSE

5 RAY LAWSON BOULEVARD BRAMPTON, ONTARIO CITY OF BRAMPTON SHEET TITLE:

MECHANICAL DETAILS

PROJECT NUMBER	ER:	
213	344.002.M.002	
DRAWING SCALE		
	•	
N.T.S.		
DRAWN BY:	CHECKED BY:	PLOT DATE:
TY	l CP	2023-05-10



			ROOF	TOP AIR CO	NDITION	NG UNIT	SCHEDULE						
UNIT NO. LOCATION SER	LOCATION SERVED	MAKE/ MODEL	SUPPLY AIR CFM	HEATI MBH		COOLING CAPACITY TONS	REFRIGERANT TYPE	GAS PRESSURE inch W.C.	UNIT VOLTAGE & PHASE	MCA AMPS	MAX. FAN HP	NOTES	
					INPUT	OUTPUT	10113			& FHASE			
RT-1	ADMINISTRATION PROSECUTORS	JOHNSON CONTROLS ZJ120N24R5D1ACA1A3	4000	240	194	10	R-410A	10.5"	575/3	20	3.45	(3) (6) (7)	
RT-2	MANAGER'S OFFICE, MEETING ROOM, ETC.	JOHNSON CONTROLS ZJ090N18R5D1ACA1A3	3000	180	146	7.5	R-410A	10.5"	575/3	20	3.45	(3) (5) (6)	
RT-3	RETIRING CHAMBERS, ETC.	JOHNSON CONTROLS ZJ120N24R5D1ACA1A3	4000	240	194	10	R-410A	10.5"	575/3	20	3.45	(3) (6) (7)	
RT-4	MONITORS	JOHNSON CONTROLS ZE048H07B5C1ACA1A3	1600	75	59	4	R-410A	10.5"	575/3	15	1.73	(2)	
RT-5	COURT ROOM #2	JOHNSON CONTROLS ZE048H07B5C1ACA1A3	1600	75	59	4	R-410A	10.5"	575/3	15	1.73	(1) (3) (4) (5)	
RT-6	PUBLIC AREA, SEATING AREA	JOHNSON CONTROLS ZJ120N24R5D1ACA1A3	4000	240	194	10	R-410A	10.5"	575/3	20	3.45	(3) (6)	
RT-7	COURT ROOM #1	JOHNSON CONTROLS ZE048H07B5C1ACA1A3	1600	75	59	4	R-410A	10.5"	575/3	15	1.73	(1) (3) (4) (5) (7)	
RT-8	COURT ROOM #5	JOHNSON CONTROLS ZE048H07B5C1ACA1A3	1600	75	59	4	R-410A	10.5"	575/3	15	1.73	(1) (3) (5) (7)	
RT-9	COURT ROOM #6	JOHNSON CONTROLS ZE048H07B5C1ACA1A3	1600	75	59	4	R-410A	10.5"	575/3	15	1.73	(1) (3) (5)	
RT-10	COURT ROOM #7	JOHNSON CONTROLS ZE048H07B5C1ACA1A3	1600	75	59	4	R-410A	10.5"	575/3	15	1.73	(1) (3) (5) (7)	
RT-11	COURT ROOM #8	JOHNSON CONTROLS ZE048H07B5C1ACA1A3	1600	75	59	4	R-410A	10.5"	575/3	15	1.73	(1) (3) (5)	
RT-12	INTERVIEW, POLICE, SMALL COURT ROOM, ETC/	JOHNSON CONTROLS ZE150N24R5D1ACA1A2	5000	240	194	12	R-410A	10.5"	575/3	35	5.75	(3) (5) (6) (7)	

OUTDOOR AIR IS SUPPLIED FROM EXISTING HEAT RECOVERY VENTILATOR HRV-1. UNIT TO BE PROVIDED STANDARD INTEGRATED ECONOMISER, UNIT MOUNTED NON FUSED DISCONNECT SWITCH (FILED INSTALLED).

3. UNIT TO BE PROVIDED STANDARD INTEGRATED ECONOMISER, PROPELLER POWER EXHAUST (FIELD INSTALLED), BAR AND HOODS, UNIT MOUNTED NON FUSED DISCONNECT SWITCH.

UNIT TO BE PROVIDED FLUE EXHAUST KIT TO REDIRECT THE FLUE ABOVE THE TOP OF THE UNIT PREVENT MIXING WITH FRESH AIR INTAKE AND COMBUSTION AIR SUPPLY.

5. RECONNECT CO2 CONTROL, INCLUDING LOW LEVEL SENSOR ON SUPPLY DUCT TO BAS SYSTEM

6.	UNII	10	BF	PROVIDE	JCI INTELLISPEED STAGED	Α
7.	UNIT	TO	ΒE	PROVIDE	CONVENIENCE OUTLET	

UNIT NO.	MAKE/ MODEL	GAS MBH	RECOVERY RATE	THERMAL EFFICIENCY	GAS PRESSURE inch W.C.	UNIT VOLTAGE & PHASE	CAPACITY/GAL	FLUE IN/MM
		INPUT	GPH 40'F-140'F					
	RHEEM GHE80SU/SS-160(A)	160	186	97%	3.5"	120/1	80	150

DOMESTIC WATER HEATER SCHEDULE

1 EQUIPMENT SCHEDULE

SCOPE OF WORKS

- TOP LINITS DIICTWORKS PIPEWORKS GAS PIPING FLECTRICAL AND CONTROLS INCLUDING THE RECONNECTION TO THE EXISTING HVAC AND BAS SYSTEM, INCLUDING BUT NOT LIMITED TO ALL ANCILLARY WORK AND EQUIPMENT AS REQUIRED TO PROVIDE A FULLY FUNCTIONING COOLING AND HEATING SYSTEM AT 5 RAY LAWSON BOULEVARD, BRAMPTON. THE COOLING AND HEATING SYSTEM SHALL BE CAPABLE OF PROVIDING SUFFICIENT COOLING AND HEATING CAPABILITIES
- FOR THE ABOVE NOTED BUILDING. SUPPLY ALL LABOUR, TOOLS, SERVICES AND EQUIPMENT, AND PROVIDE ALL MATERIALS AND EQUIPMENT REQUIRED TO COMPLETE MECHANICAL AND ELECTRICAL WORK IN ACCORDANCE WITH THIS SECTION OF THE SPECIFICATION. THIS SECTION SHALL FORM A SUMMARY OF THE SCOPE OF WORK ONLY AND IT SHALL BE READ IN CONJUNCTION WITH THE DRAWINGS, SPECIFICATION AND
- REMOVE AND DISPOSE OF EXISTING ROOFTOP UNITS, PIPEWORKS, DUCTWORKS WITHIN ON THE ROOF THE BUILDING AS SHOWN INCLUDING BUT NOT LIMITED TO ALL VALVES, PIPING, VENTING, INSULATION, CONTROLS, ELECTRICAL WIRING AND COMPONENTS, AIR VENTS, TEMPERATE AND PRESSURE GAUGES.
- SUPPLY ALL LABOUR, TOOLS, SERVICES AND INSTALL THE NEW ROOFTOP UNITS TO RECONNECT THE EXISTING BAS SYSTEM FOR MONITORING AND CONTROLLING THE ROOF TOP UNITS AND DOMESTIC HOT WATER HEATER.
- CARRY OUT PRE-CONSTRUCTION AIR FLOW MEASUREMENT ON THE EXISTING ROOFTOPS AND IDENTIFY AIR FLOW DEFICIENCIES (IF ANY) AND OPTIMISE THE AIRFLOW WITHIN THE NEW SYSTEM IN ACCORDANCE WITH FACILITY'S PREFERENCE. PROVIDE A DETAILED SUMMARY PRIOR TO DEMOLITION.
- SPECIFICATION AND DRAWINGS INCLUDING BUT LIMITED TO ALL VALVES, RELIEF PIPING, PIPING, VENTING, INSULATION, CONTROLS, ELECTRIC WIRING AND

SUPPLY AND INSTALLATION OF DOMESTIC HOT WATER HEATER AS DETAILED IN THE

- THE CONTRACTOR SHALL MAKE GOOD ANY AREA THAT FORM PART OF THIS WORK INCLUDING BUT NOT LIMITED TO ALL MATERIAL AND LABOUR INCLUDING DRYWALL, 7. MASONRY, PATCHING, PAINTING, FLOOR TILES ETC. WHERE PAINTING IS REQUIRED. THE CONTRACTOR SHALL PRIME AND PAINT THE FULL WALL, PIPING, INSULATION, CEILING OR BUILDING COMPONENT TO ENSURE EVEN MATCH TO EXISTING.
- ALL PENETRATION THROUGH WALLS/ FLOORS SHALL BE SEALED TO MAINTAIN EXISTING FIRE RATING OF ASSEMBLY, WHERE VENTING OR EQUIPMENT IS REMOVED, 9. THE CONTRACTOR IS TO ALLOW FOR ANY ADDITIONAL WORK REQUIRED TO THAT PASSED THROUGH AN EXISTING SEPARATION, THE VOIDS OR OPENINGS SHALL BE REINSTATED TO MATCH THE EXISTING CONSTRUCTION.
- 9. INCLUDE ALL MEANS NECESSARY TO INSTALL EQUIPMENT INTO DESIGNATED PLACE.
- 10. CARRY OUT AIR BALANCING TO MEET PRE-CONSTRUCTION FLOW RATE AND MAKE NECESSARY AIR FLOW IMPROVEMENT IN ACCORDANCE WITH THE FACILITY'S PREFERENCES BASED ON PRE-CONSTRUCTION AIR AUDIT
- 11. PROVIDE START UP AND COMMISSIONING REPORT FOR EQUIPMENT OPERATION.
- 12. PROVIDE PROPER EQUIPMENT, VALVE, AND PIPING IDENTIFICATION INCLUDING FLOW 11. THE CONTRACTOR SHALL CARRY THE COSTS FOR ALL THE FOLLOWING INCLUDING DIRECTION ARROWS ON PIPING AND DUCTING, INCLUDE ALL DOCUMENTATION SUBMITTALS. MAINTENANCE AND INFORMATION MANUAL AS INDICATED IN THE SPECIFICATIONS.
- PROVIDE MINIMUM ONE YEAR WARRANTY ON ALL MATERIALS, EQUIPMENT, PARTS AND LABOUR UNLESS OTHERWISE NOTED.

GENERAL NOTES

- THE WORK SHALL INCLUDE THE SUPPLY AND INSTALLATION OF THE NEW ROOF 1. THE AWARDED CONTRACTOR SHALL ACT AS THE GENERAL CONTRACTOR AND SHALL RE RESPONSIBLE FOR HIRING AND ENSURING COORDINATION AMONGST ALL SUB-TRADES REQUIRED TO COMPLETE THE WORK NOTED IN THE TENDER
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL SUB-TRADES ARE AWARE OF THE ALLOWABLE PROJECT WORKING HOURS, PROJECT COMPLETION DATE, ELEVATOR LIMITATIONS, GENERAL BUILDING RULES, ETC.
 - THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF BRAMPTON BID DOCUMENTS, SUPPLEMENTARY CONDITIONS, CONSTRUCTION AND ENERGY MANUALS, ETC. UNLESS OTHERWISE STATED, THE REQUIREMENT OF THESE CONDITIONS SHALL SUPERSEDE ANY REQUIREMENTS INCLUDED WITHIN THE BID DOCUMENTS. THE CONTRACTOR SHALL ALLOW FOR ALL COST ASSOCIATED WITH COMPLYING WITH ALL REQUIRED CONDITIONS HEREIN.
 - ALL WORK MUST BE CARRIED OUT ON WEEKENDS OR AFTER HOURS. ALL EQUIPMENT AND/OR SYSTEM MUST BE FUNCTIONAL FOR THE START OF THE BUSINESS DAY. THE CONTRACTOR SHALL PHASE THE WORK TO ENSURE THAT THERE IS NEVER A DISRUPTION TO THE HEATING, VENTILATION AND/OR AIR CONDITIONING SYSTEMS DURING REGULAR BUSINESS HOURS (7:00 AM TO 7:00 PM) UNLESS OTHERWISE REQUESTED BY THE CITY OF BRAMPTON. ON-SITE SECURITY WILL BE NEEDED DURING WEEKEND WORK AND DURING THE WEEK AFTER HOUR WORK.
 - THE ROOF CONTAINS VIBRATION SENSORS ARE TIED TO THE POLICE THAT MUST BE DISABLED OR BYPASSED DURING CONSTRUCTION WORK ON THE ROOF. THE CONTRACTOR MUST COORDINATE WITH SECURITY AND FACILITY OPERATION STAFF FOR POLICE NOTIFICATION PRIOR TO STARTING WORK ON THE ROOF. CONTRACTOR MUST ONLY HIRE THE CITY OF BRAMPTON SECURITY GUARD CONTRACTOR. THE SECURITY COST WILL BE BILLED USING THE CASH ALLOWANCE.
 - THE CONTRACTOR MUST ALLOW FOR A MEETING WITH THE BUILDING OPERATIONS STAFF AT THE START OF THE PROJECT TO FULLY UNDERSTAND ALL WORKING REQUIREMENTS AT THE BUILDING.
 - THE CONTRACTOR MUST CARRY ALL NECESSARY CRANE LIFTS TO EXECUTE THE WORK AS DESCRIBED.
 - ALL BALANCING WORK MUST BE CARRIED OUT OUTSIDE OF NORMAL BUSINESS HOURS (7:00 PM TO 7:00 AM)
 - ACCOMMODATE ALTERNATE MANUFACTURER'S EQUIPMENT THAT IS DIFFERENT FROM BASE SPECIFIED EQUIPMENT. THIS INCLUDES CONSIDERATION OF THE UNIT'S PHYSICAL SIZE AND CLEARANCES REQUIRED ALL AROUND EQUIPMENT. ALL ADDITIONAL WORK ASSOCIATED WITH RELOCATION OF PIPING, TRANSITION CURBS, DUCTWORK, ELECTRICAL CONNECTIONS, CONDUITS, ETC. TO BE ACCOMMODATED IN
 - 10. ANY DEVIATION FROM THE SPECIFIED EQUIPMENT AFTER AWARD OF CONTRACT. A SHOP DRAWING MUST BE SUBMITTED TO BE CONSULTANT FOR REVIEW AND
 - BUT NOT LIMITED TO: SAFETY MEASURES, CRANE/LIFTS, POLICE ESCORTS, ROAD CLOSURES, HYDRO RELOCATION/ PROTECTION AND ASSOCIATED PERMITS.
- 13. DISPOSE ALL DEBRIS, ALL UNUSED ITEMS, AND ALL DEMOLITION ITEMS AT A LEGAL

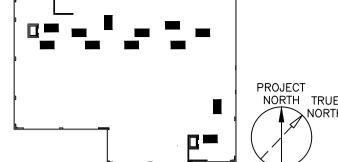
 12. ANY SHUTDOWN OR RESTRICTION OF ACCESS TO BUILDING SERVICES, PARKING
 SPACES LOADING DOCKS TO WIST OF ACCESS TO BUILDING SERVICES, PARKING BRAMPTON OR APPROPRIATE OWNER.

13. THE CONTRACTOR IS RESPONSIBLE TO DISPOSE OF ALL REFRIGERANT WITHIN THE DEMOLISHED ROOFTOP UNITS IN ACCORDANCE WITH LOCAL, PROVINCIAL AND

FEDERAL REQUIREMENTS.

- 14. THE CONTRACTOR SHALL NOT USE THE BUILDING ELEVATOR TO TRANSPORT MATERIALS, EQUIPMENT, ETC. UNLESS SPECIFICALLY AUTHORIZED BY THE BUILDING OPERATIONAL TEAMS AND THE CITY OF BRAMPTON.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT THE ELEVATOR (INCLUDING STAIRWELLS AND ACCESS PATHS) DURING ANY USE AND REPAIR ANY DAMAGES. IF HEAVY AND/OR BULKY ITEMS NEED TO BE TRANSPORTED INTO THE MECHANICAL ROOMS OR ROOF. THE CONTRACTOR WILL NEED TO MAKE ARRANGEMENTS FOR AN APPROPRIATE CRANE AND/OR EXTERIOR LIFT.
- THE CONTRACTOR SHALL PROVIDE ALL REQUIRED CONTROL AND AUTOMATION WORK INCLUDING NECESSARY COMPONENTS REQUIRED IN CONNECTION WITH THE SCOPE OF WORK. CONNECT THE NEW EQUIPMENT TO THE EXISTING BUILDING AUTOMATION SYSTEM. INCLUDE ALL ASSOCIATED CONTROL COMPONENTS INCLUDING WIRING, CONDUIT, SENSORS, WELLS, GAUGES, TRANSFORMERS, ETC. UTILIZE THE SERVICES OF THE BASE BUILDING CONTROLS CONTRACTOR IDENTIFIED ON THE MECHANICAL
- 17. CONTRACTOR SHALL SUBMIT THEIR HOT WORK PERMIT FOR OWNER REVIEW. PERMIT IS PROVIDED BY FACILITY OPERATION TEAM AND REQUIRED TO SUBMIT EVERYDAY BEFORE CONSTRUCTION.

WORK AND REPORT ANY DISCREPANCY TO THE CONSULTANT BEFORE PROCEEDING. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL AUTHORIZED IN WRITING BY CONSULTANT.



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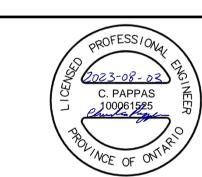
NAME:	TONY YING
TEL:	647-475-3957
EMAIL.	tonv.vina@smithandandersen.com

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REPLACEMENT OF ROOF TOP UNITS- POA COURTHOUSE

5 RAY LAWSON BOULEVARD BRAMPTON, ONTARIO CITY OF BRAMPTON

EQUIPMENT SCHEDULE

PROJECT NUMBER: 21344.002.M.002 DRAWING SCALE:

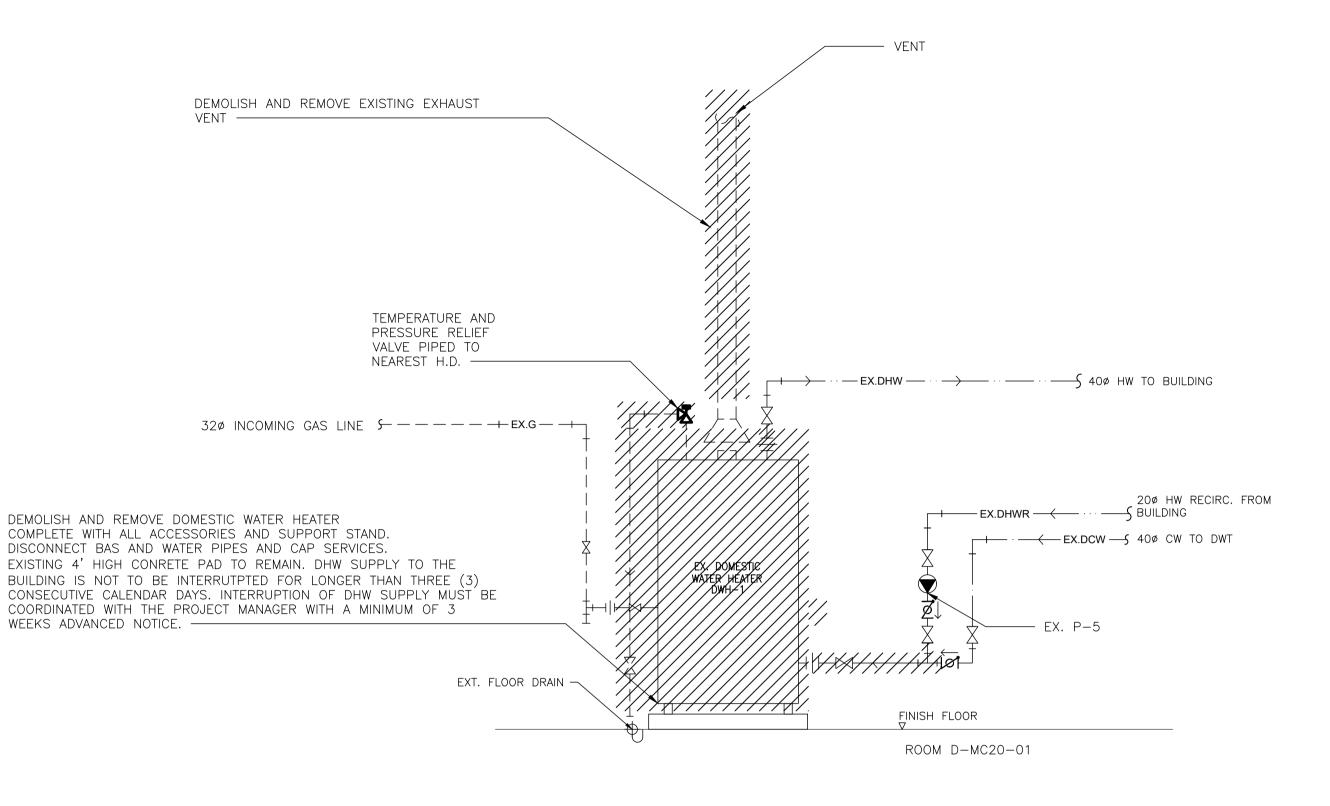
N.T.S. DRAWN BY: CHECKED BY: PLOT DATE: 2023-05-10

M - 002

SHEET NO:

SCOPE OF WORKS N.T.S.





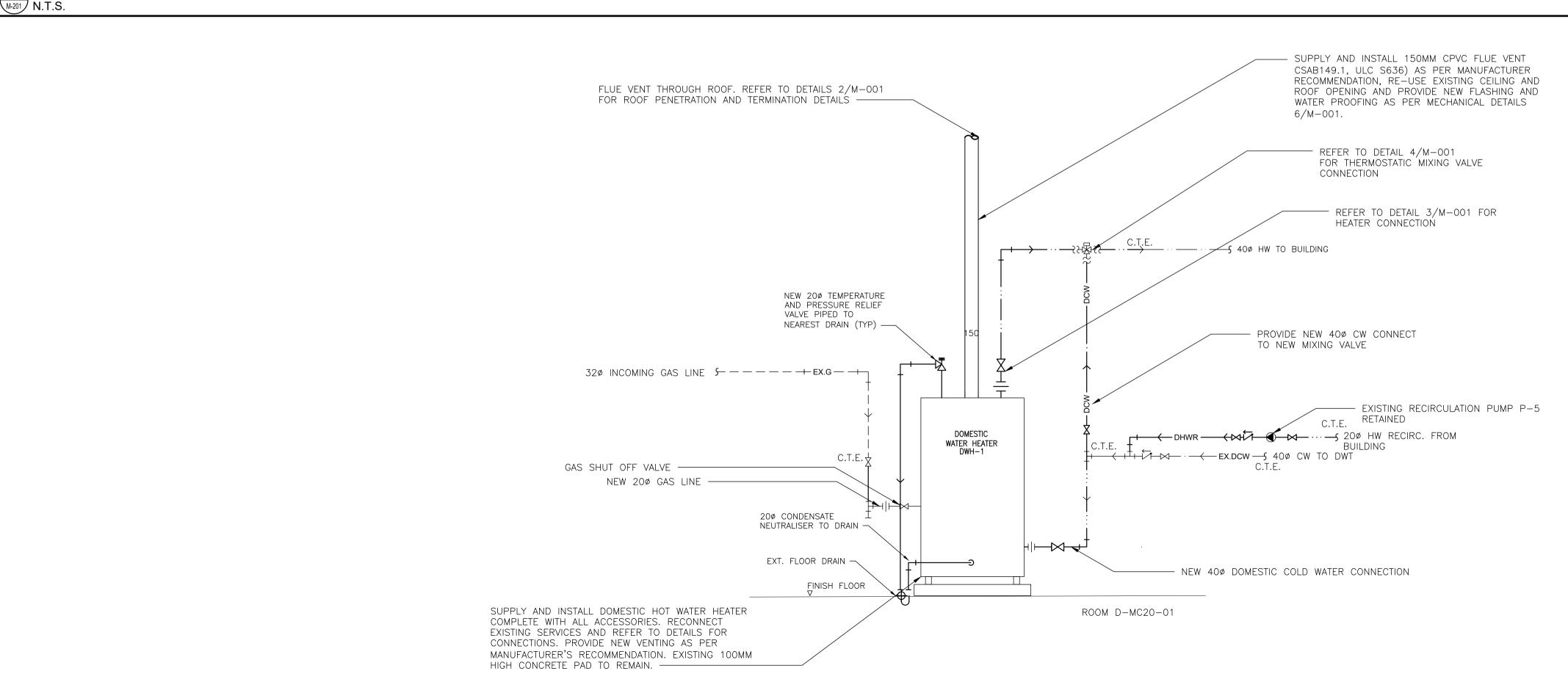
GENERAL NOTES:

- DO NOT SCALE DRAWINGS. THE LOCATIONS
 OF ALL ITEMS SHOWN ON THE DRAWINGS OR
 SPECIFIED THAT ARE NOT DEFINITELY FIXED
 BY DIMENSIONS ARE APPROXIMATE.
 DETERMINE THE EXACT LOCATIONS NECESSARY
 TO SECURE THE BEST CONDITIONS AND
 RESULTS BASED BY THE SITE CONDITIONS.
 REVIEW ALL REVISIONS WITH THE
 CONSULTANT.
- READ FLOOR PLANS SHALL IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS.
 PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
- REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

DRAWING NOTES:

1. DISCONNECT AND REMOVE EXISTING DOMESTIC HOT WATER HEATERS INCLUDING ALL ASSOCIATED FLUE VENT UP TO THE ROOF, DOMESTIC AND DRAINAGE PIPING, TEMPORARILY. CAP ROOF PENETRATION, EXISTING DOMESTIC WATER LINES AND GAS PIPING FOR RECONNECTION TO NEW EQUIPMENT.

DOMESTIC HOT WATER SCHEMATIC - DEMOLITION



<u>NOTE</u>

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL NEW EQUIPMENT WILL PHYSICALLY FIT INTO THE SPACE FOR WHICH IT IS INTENDED. THE CONTRACTOR ACCEPTS ALL COSTS ASSOCIATED WITH MOVING AND REINSTALLING ALL EXISTING PIPING, DUCTWORK, ELECTRICAL WIRING, ETC. AS REQUIRED TO MOVE LARGE ITEMS INTO PLACE.

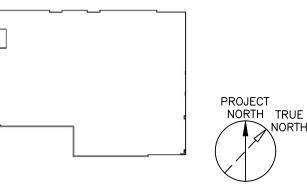
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DRAWING NOTES:

1. SUPPLY AND INSTALL NEW DOMESTIC HOT WATER HEATERS INCLUDING ALL ASSOCIATED FLUE VENT PIPING UP TO THE ROOF, ACID NEUTRALIZATION KITS AND CONDENSATE DRAIN LINE TO THE CLOSEST FUNNEL FLOOR DRAIN, DOMESTIC AND DRAINAGE PIPING, AND PIPING INSULATION. CONNECT TO EXISTING DOMESTIC WATER AND NATURAL GAS LINES.

CONTRACTOR SHALL CHECK ALL DIMENSIONS ON THE WORK AND REPORT ANY DISCREPANCY TO THE CONSULTANT BEFORE PROCEEDING. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL AUTHORIZED IN WRITING BY CONSULTANT.



AN ISSUE

NO.		DESCRIPTION
1	2023.06.30	ISSUED FOR CLIENT REVIEW
2	2023.08.02	ISSUED FOR TENDER

PROJECT CONTACT

NAME: TONY YING

TEL: 647-475-3957

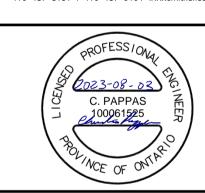
EMAIL: tony.ying@smithandandersen.com

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OWNER:



PROJECT:

REPLACEMENT OF ROOF

TOP UNITS— POA

5 RAY LAWSON BOULEVARD BRAMPTON, ONTARIO

CITY OF BRAMPTON SHEET TITLE:

COURTHOUSE

DOMESTIC HOT WATER SCHEMATIC

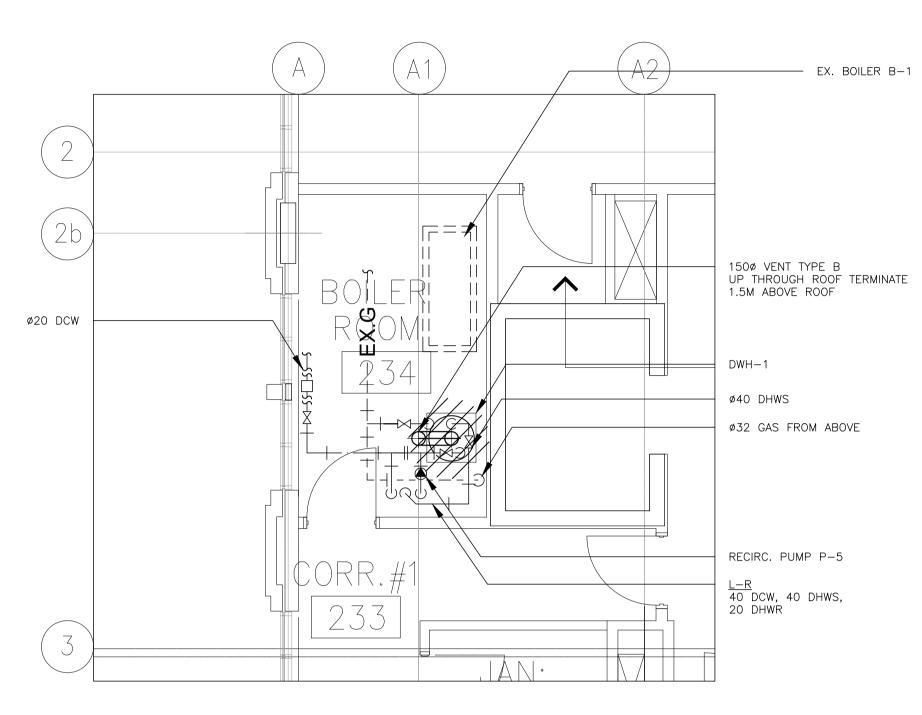
PROJECT NUMBER: 21344.002.M.002

DRAWING SCALE:

SHEET NO:

M-200

DOMESTIC HOT WATER SCHEMATIC - NEW N.T.S.

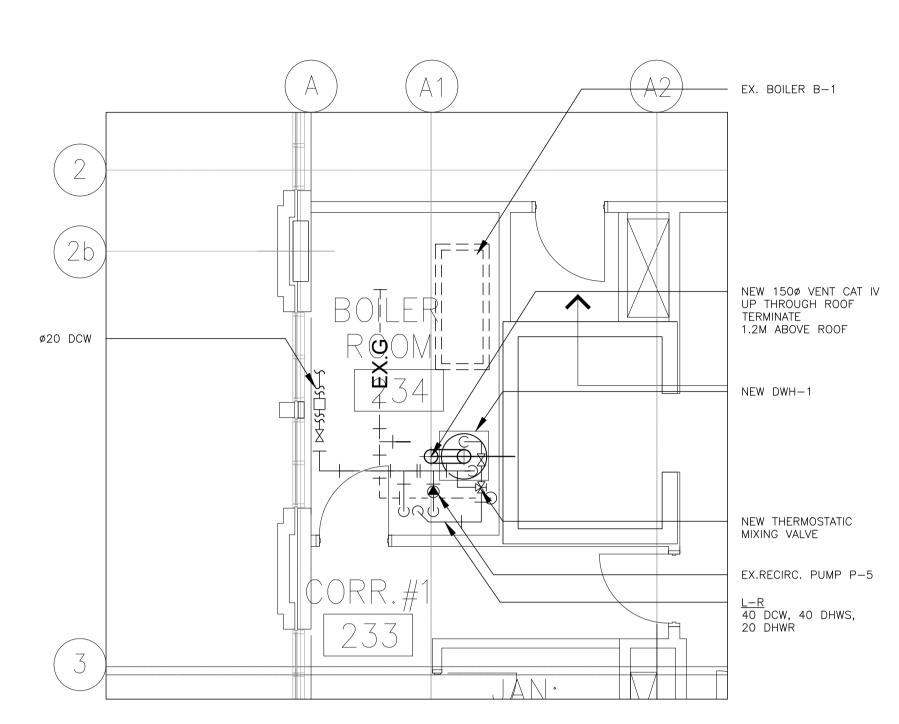


GENERAL NOTES:

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- VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
- REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

DEMOLITION NOTES:

- 1. DISCONNECT AND REMOVE EXISTING DOMESTIC HOT WATER HEATER INCLUDING ALL ASSOCIATED FLUE VENT UP TO THE ROOF, CONDENSATE DRAIN, DOMESTIC AND DRAINAGE PIPING AND ASSOCIATED LABOUR. TEMPORARILY CAP EXISTING DOMESTIC WATER LINES AND GAS PIPING FOR RECONNECTION TO NEW EQUIPMENT.
- 2. RETAIN THE EXISTING DHW RECIRCULATION PUMP AND UPSTREAM PIPING.
- 3. EXISTING CONCRETE PAD TO REMAIN.



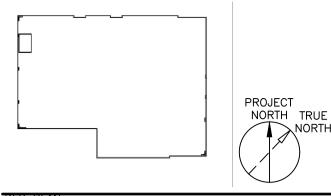
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- REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

DRAWING NOTES:

- 1. ENSURE ADEQUATE CLEARANCE IS MAINTAINED BETWEEN THE DOMESTIC WATER HEATER AND OPERATION OF THE DOOR
- SUPPLY AND INSTALL NEW DOMESTIC HOT WATER HEATER ON EXISTING 4" HIGH HOUSE KEEPING PAD COMPLETE WITH ACCESSORIES. RECONNECT EXISTING SERVICES AND REFER TO DETAILS AND SCHEMATICS FOR CONNECTIONS. PROVIDE NEW VENTING AS PER MANUFACTURER'S INSTRUCTIONS.
- 3. SUPPLY AND INSTALL NEW 6" APPROVED CPVC FLUE VENT (CSAB149.1, ULC S636) AS PER MANUFACTURERS RECOMMENDATION. RE-USE EXISTING CEILING AND ROOF OPENINGS AND PROVIDE NEW FLASHING AND WATER PROOFING AS PER MECHANICAL DETAIL.

CONTRACTOR SHALL CHECK ALL DIMENSIONS ON THE WORK AND REPORT ANY DISCREPANCY TO THE CONSULTANT BEFORE PROCEEDING. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL AUTHORIZED IN WRITING BY CONSULTANT.



PLAN ISSUE

		1330E
NO.	DATE	DESCRIPTION
1	2023.06.30	ISSUED FOR CLIENT REVIEW
2	2023.08.02	ISSUED FOR TENDER

PROJECT CONTACT

NAME: TONY YING

TEL: _647-475-3957

EMAIL: _tony.ying@smithandandersen.com

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PROJE

REPLACEMENT OF ROOF TOP UNITS— POA COURTHOUSE

5 RAY LAWSON BOULEVARD BRAMPTON, ONTARIO CITY OF BRAMPTON

CITY C

MECHANICAL, BOILER ROOM

PROJECT NUMBER: 21344.002.M.002

DRAWING SCALE:

1:50

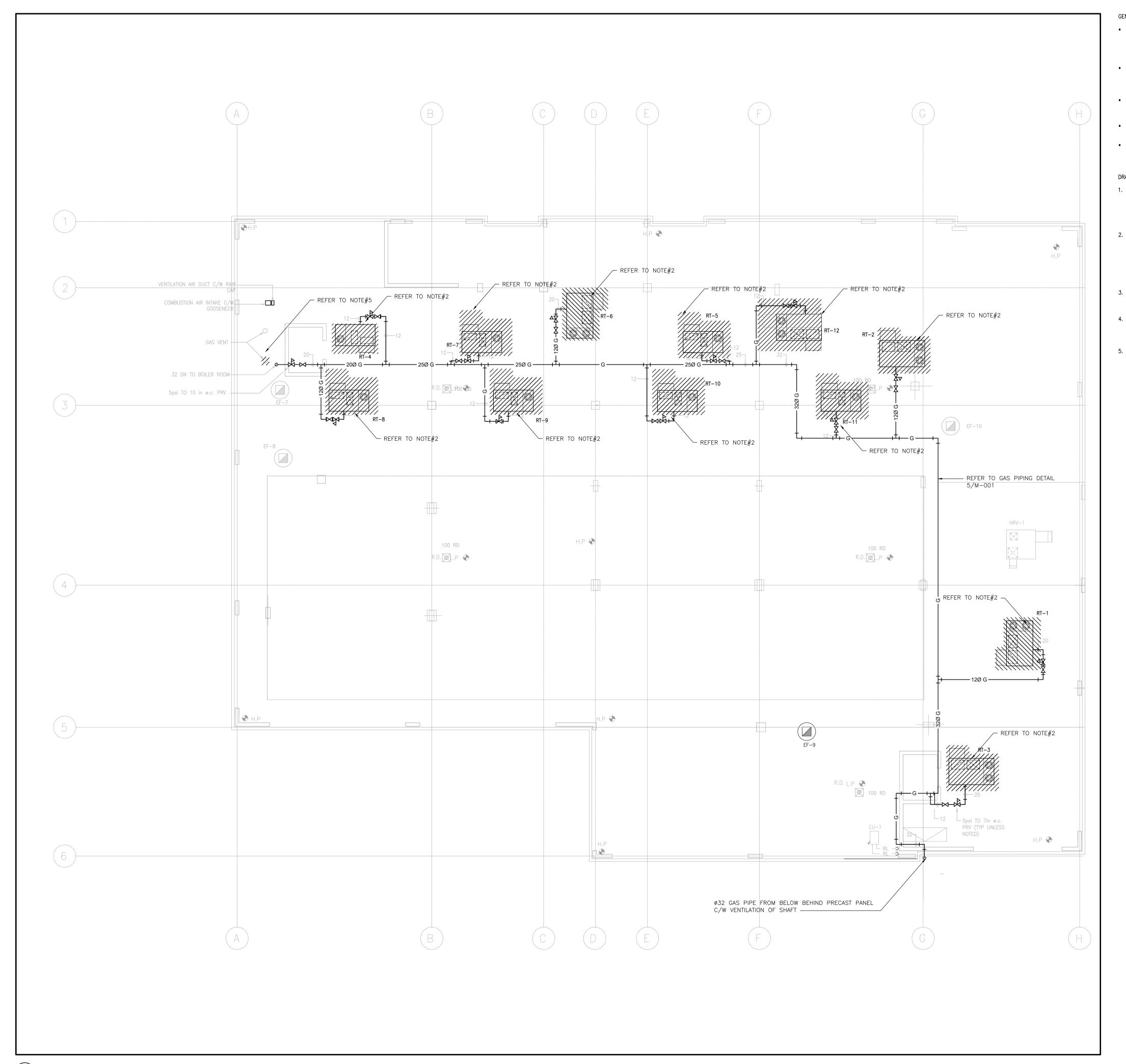
DRAWN BY: CHECKED BY: PLOT DATE:

TY CP 2023-05-10

SHEET NO:

M - 400

MECHANICAL, BOILER ROOM - NEW LAYOUT 1:50

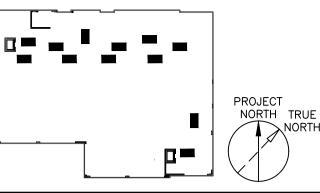


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- REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL
- ALL WORK COMPLETED ON THE ROOF SHALL BE DONE BY WORKERS WITH APPROPRIATE ROOF HARNESSING TRAINING AND EQUIPMENT. CONTRACTOR SHALL MEET ALL FURTHER WORK REQUIREMENTS AS SPECIFIED BY THE

DRAWING NOTES:

- 1. THE AIR BALANCING CONTRACTOR SHALL VISIT SITE PRIOR TO START OF CONSTRUCTION AND RECORD ALL EXISTING AIR QUANTITIES FOR THE EXISTING ROOFTOP UNIT RTU 1 TO 12 INCLUSIVE. CONTRACTOR SHALL RECORD ORIGINAL AIR QUANTITIES, PROVIDE DUCTWORK SIZES AND RUNS. AIR BALANCING CONTRACTOR TO COORDINATE ACCESS WITH ON-SITE FACILITY OPERATION STAFF.
- 2. CONTRACTOR SHALL REMOVE EXISTING GAS FIRED ROOFTOP UNIT RTU 1 TO 12 INCLUSIVE, COMPLETE WITH ALL EXTERIOR DUCTWORK, SUPPORTS, CONTROL WIRING ETC. POWER DISCONNECTION BY ELECTRICAL DIVISION. TEMPORARILY CAP EXISTING NATURAL GAS CONNECTION AS CLOSE TO EXISTING ROOFTOP UNITS AS POSSIBLE TO MATCH THE NEW GAS INLET POINT. CONTRACTOR SHALL INCLUDE WITHIN TENDER PRICE FOR ALL CAPPING OF EXISTING INTERIOR DUCTWORK AND COMPLETE PROTECTION OF ROOFTOP PENETRATION.
- 3. ALL CONTROLS WORKS SHALL BE PERFORMED BY THE BASE BUILDING CONTROL CONTRACTOR 'AINSWORTH INC' TO BE CARRIED AS A SUB TO THE MECHANICAL CONTRACTOR.
- 4. CONTRACTOR TO NOTE THE CONDITION OF ALL EXISTING ROOFTOP UNITS EXISTING PRESSURE REGULATING VALVES PRIOR TO CONSTRUCTION AND CONTRACTOR SHALL PROVIDE A ITEMISED PRICE TO REPLACE EXISTING PRESSURE REGULATING VALVE IF REQUIRED.
- 5. CONTRACTOR SHALL DEMOLISH AND REMOVE GAS VENT FOR DOMESTIC WATER HEATER.

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ISSUE

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PROJECT CONTACT

NAME:	TONY YING
TEL:	647-475-3957

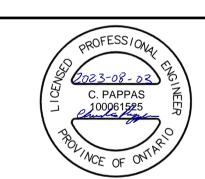
EMAIL: tony.ying@smithandandersen.com

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REPLACEMENT OF ROOF TOP UNITS- POA COURTHOUSE

5 RAY LAWSON BOULEVARD

BRAMPTON, ONTARIO CITY OF BRAMPTON

ROOFTOP PLAN -MECHANICAL DEMOLITION LAYOUT

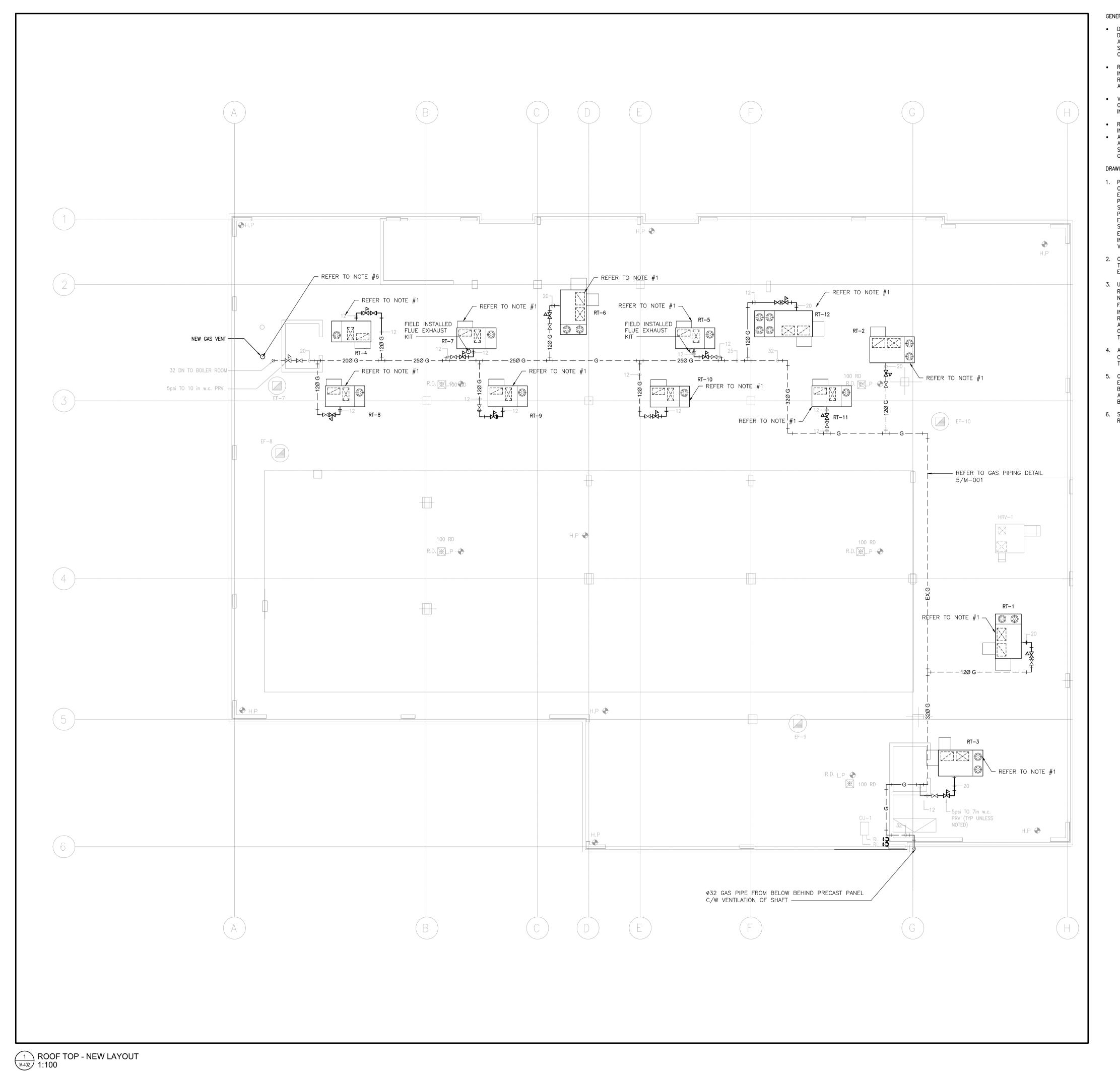
ROJECT	NUMBER:
	21344.002.M.002

DRAWING	SCALE:
N.T.S.	

2023-05-10 SHEET NO:

M - 401

ROOF TOP - DEMOLITION LAYOUT 1:100

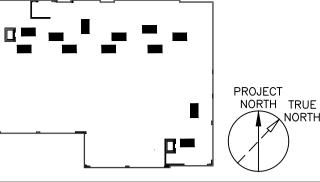


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- REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.
- ALL WORK COMPLETED ON THE ROOF SHALL BE DONE BY WORKERS WITH APPROPRIATE ROOF HARNESSING TRAINING AND EQUIPMENT. CONTRACTOR SHALL MEET ALL FURTHER WORK REQUIREMENTS AS SPECIFIED BY THE ON-SITE FACILITY STAFF MANAGER AND PROJECT MANAGER.

DRAWING NOTES:

- PROVIDE TWELVE (12) NEW GAS FIRED ROOFTOP UNITS RTU 1 TO 12 COMPLETE WITH ALL EXTERIOR DUCTWORK, SUPPORTS, CONTROL WIRING ETC. CONTRACTOR SHALL MATCH SUPPLY AND RETURN AIR DUCT RUN OF PREVIOUSLY INSTALLED ROOFTOP UNITS AND CONNECT TO EXISTING SUPPLY AND RETURN AIR DUCTWORK IMMEDIATELY ABOVE ROOF PENETRATION. POWER CONNECTION BY ELECTRICAL DIVISION. EXTEND EXISTING NATURAL GAS PIPING TO SUIT NEW ROOFTOP UNIT CONTRACTOR SHALL INCLUDE IN TENDER PRICE FOR ALL MODIFICATION REQUIRED TO EXISTING ROOF CURB/ SUPPORTS TO SUIT NEW ROOFTOP UNIT INSTALLATION. CONTRÁCTOR TO PROVIDE NEW DRIP LEG AND NEW GAS VALVE FOR ROOFTOP UNITS.
- 2. CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL FLUE EXTENSION KIT IF THERE IS INSUFFICIENT SEPARATION DISTANCE BETWEEN INTAKE AND
- 3. UPON COMPLETION OF CONSTRUCTION, AIR BALANCING CONTRACTOR SHALL REBALANCE AIR QUANTITIES FOR ALL RTUS (RT-1 TO RT-12) TO VALUES NOTED IN PRE-AIR BALANCING REPORT OR IMPROVED AS PER THE FACILITIES PREFERENCE/ NEEDS. AIR BALANCING CONTRACTOR SHALL INCLUDE FOR ONE (1) ADDITIONAL DAY OF FINE TUNING AS MAY BE REQUIRED TO ACCOMMODATE TENANT SPECIFIED REQUIREMENTS. THIS FINAL ADJUSTMENT MAY BE REQUIRED ANY TIME WITHIN THE FIRST SIX MONTH OF OCCUPANCY, AIR BALANCING CONTRACTOR TO COORDINATE ACCESS WITH THE ON-SITE FACILITY STAFF.
- 4. ALL CONTROLS WORKS SHALL BE PERFORMED BY THE BASE BUILDING CONTROL CONTRACTOR 'AINSWORTH INC' TO BE CARRIED AS A SUB TO THE MECHANICAL CONTRACTOR.
- 5. CONTRACTOR TO VERIFY PROPOSED ROOFTOP UNITS ORIENTATION AND EXISTING SUPPLY AND RETURN AIR OPENING AND ENSURE DUCTWORK CAN BE ACCOMMODATED BASED ON PROPOSED CONFIGURATION. CONTRACTOR TO ADVISE ENGINEER ABOUT DUCT INTERFERENCE OR ANY ISSUES NOTED BEFORE TENDER OPENING.
- 6. SUPPLY AND INSTALL NEW GAS VENT AS PER MANUFACTURER RECOMMENDATION UTILISE EXISTING ROOF OPENING.

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ISSUE

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2	2023.08.02	ISSUED FOR TENDER

PROJECT CONTACT

NAME: TONY YING

TEL: 647-475-3957

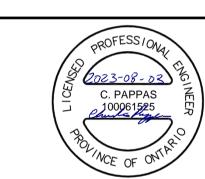
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REPLACEMENT OF ROOF TOP UNITS- POA COURTHOUSE

5 RAY LAWSON BOULEVARD BRAMPTON, ONTARIO CITY OF BRAMPTON

ROOFTOP PLAN -

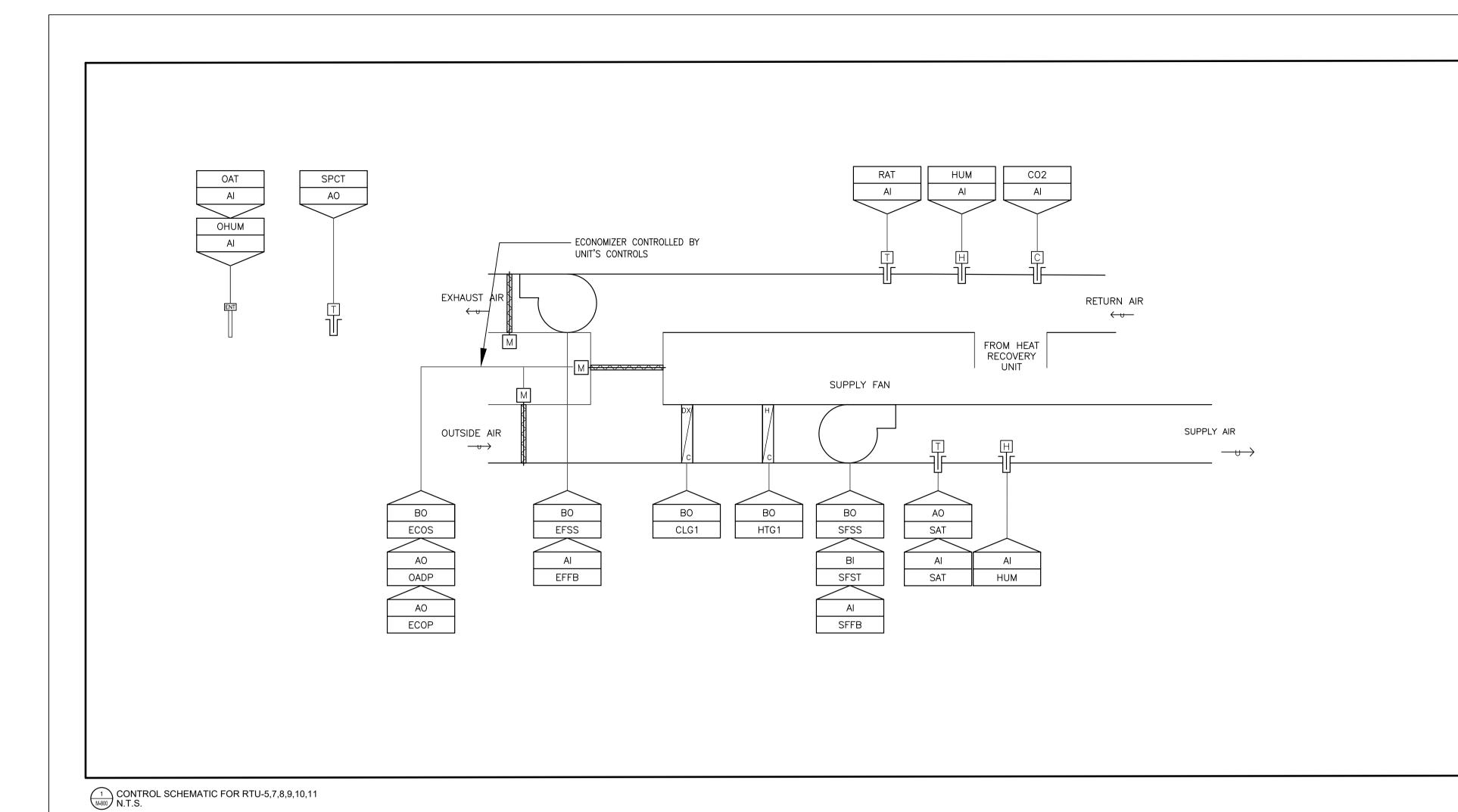
MECHANICAL LAYOUT

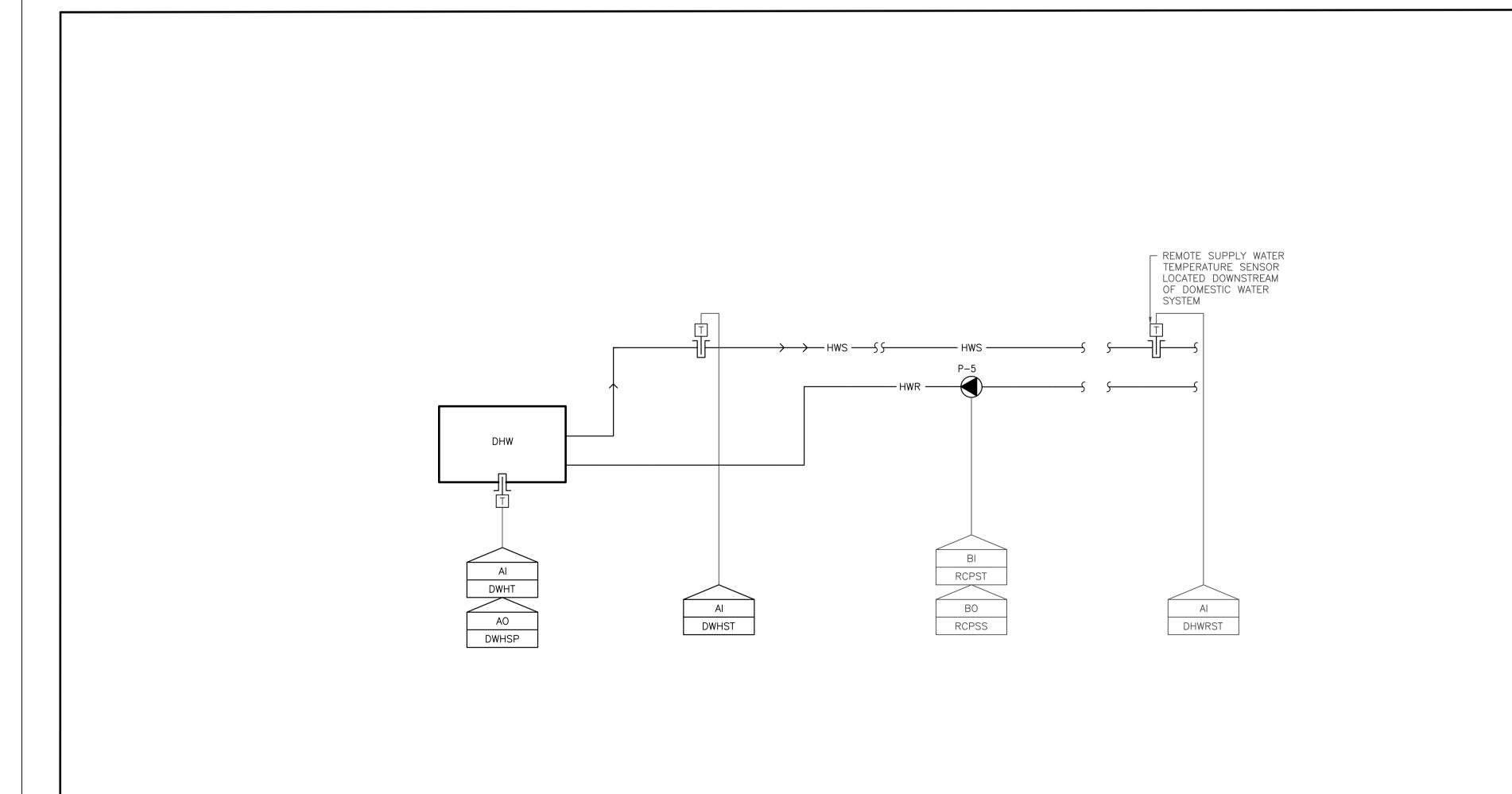
PROJECT NUMBER: 21344.002.M.002

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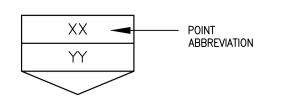
N.T.S. PLOT DATE: 2023-05-10

SHEET NO:

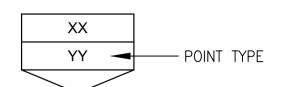




2 CONTROL SCHEMATIC FOR DWH-1 N.T.S.

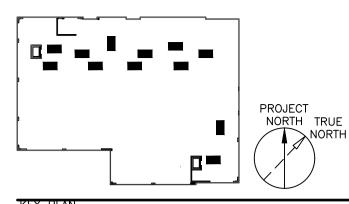


DESCRIPTION
ANALOG INPUT
ANALOG OUTPUT
BINARY INPUT
BINARY OUTPUT
PULSE INPUT



POINT TYPE	DESCRIPTION
SFSS	SUPPLY FAN START/STOP
SPSP	SUPPLY AIR STATIC PRESSURE
SFST	SUPPLY FAN STATUS
SAT	SUPPLY AIR TEMPERATURE
DWHT	WATER HEATER TEMPERATURE
DWHSP	WATER HEATER SETPOINT
DWHST	WATER HEATER STATUS
RCPST	RECIRC PUMP STATUS
RCPSS	RECIRC PUMP START/STOP
CLGSTG-1	STAGE 1 COOLING STATUS
CLGSTG-2	STAGE 2 COOLING STATUS
HTGSTG-1	STAGE 1 HEATING STATUS
HTGSTG-2	STAGE 2 HEATING STATUS
BD	BYPASS DAMPER
EFSS	EXHAUST FAN START/STOP
CO2	CARBON DIOXIDE
HUM	HUMIDITY
RAT	RETURN AIR TEMPERATURE
ECOS	ECONOMISER ON/OFF
ECOP	ECONOMISER TEMP SETPOINT
EFFB	EXHAUST FAN FEEDBACK
SFFB	SUPPLY FAN FEEDBACK
OAT	OUTDOOR AIR TEMPERATURE
ОНИМ	OUTDOOR HUMIDITY
SPCT	SPACE TEMPERATURE

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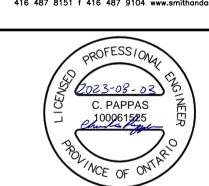
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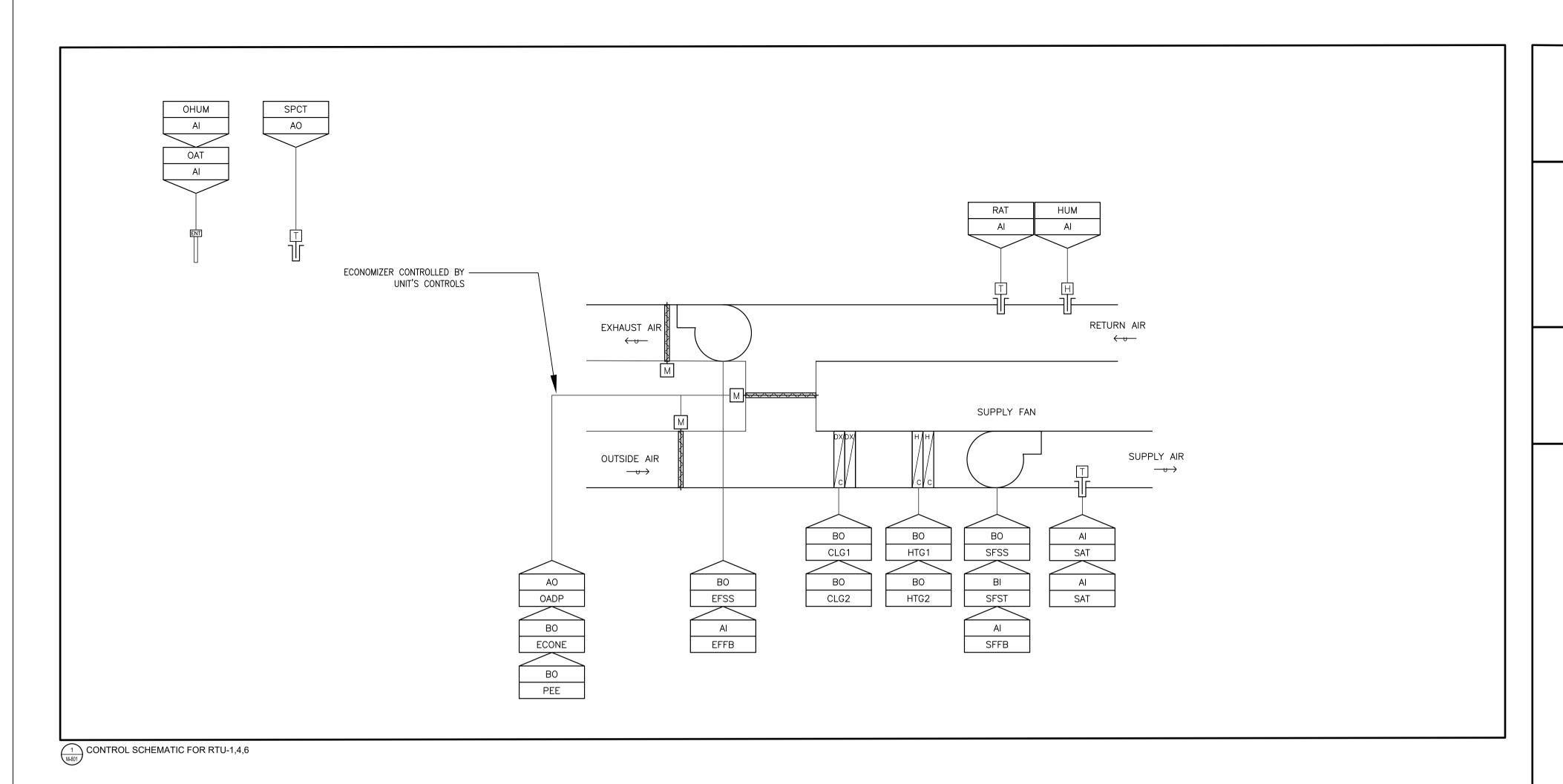
5 RAY LAWSON BOULEVARD BRAMPTON, ONTARIO
CITY OF BRAMPTON
SHEET TITLE:

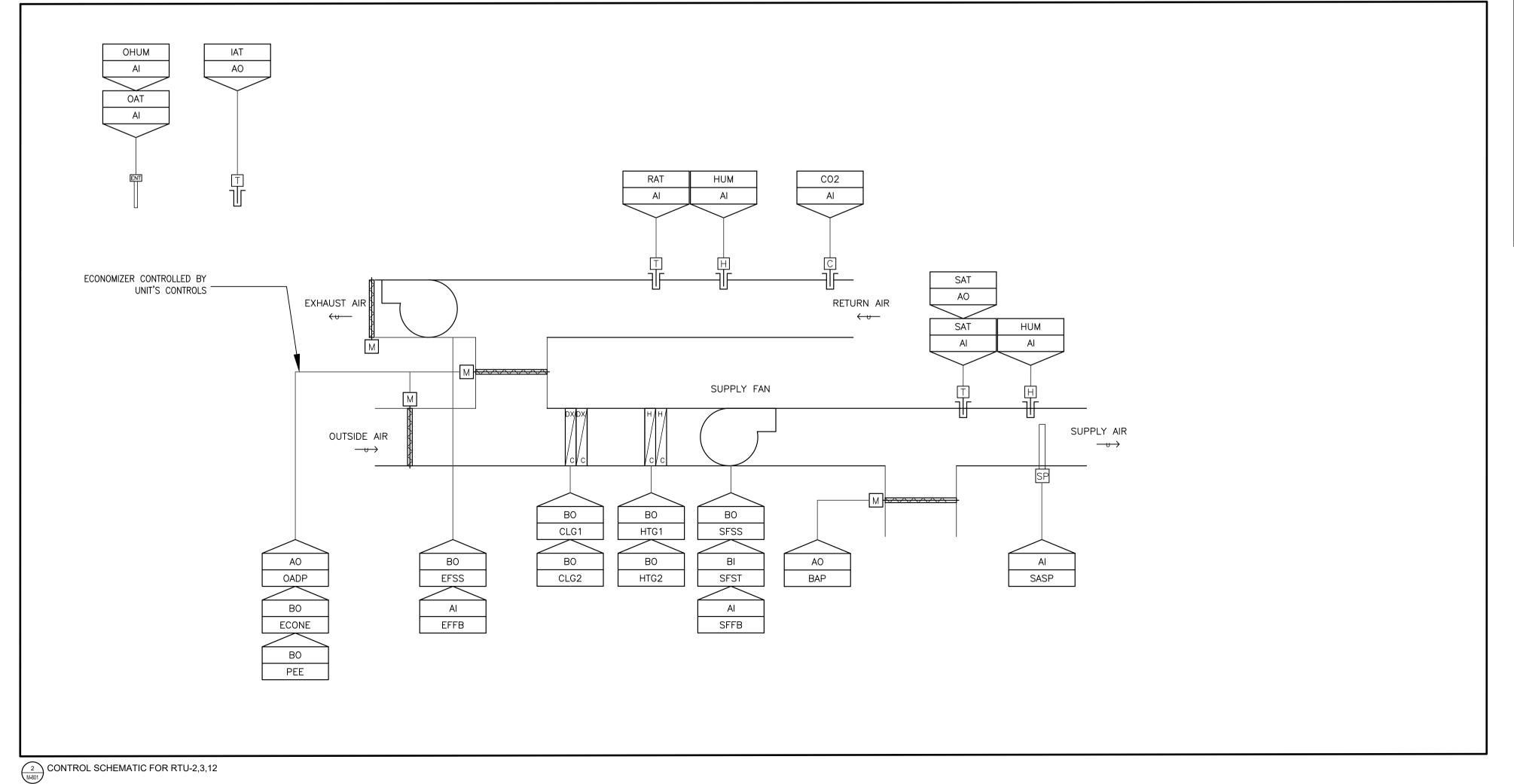
CONTROL SCHEMATIC

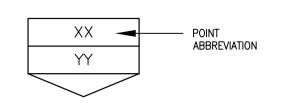
PROJECT NUMBER: 21344.002.M.002

DRAWING SCALE: N.T.S. DRAWN BY:

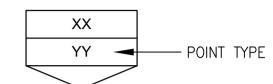
CHECKED BY: PLOT DATE: 2023-05-10 SHEET NO:





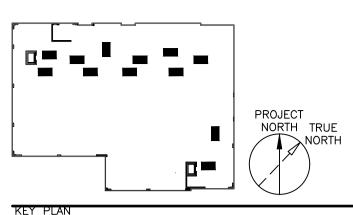


POINT TYPE	DESCRIPTION	
Al	ANALOG INPUT	
AO	ANALOG OUTPUT	
BI	BINARY INPUT	
ВО	BINARY OUTPUT	
PI	PULSE INPUT	
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POINT TYPE SFSS SUPPLY FAN START/STOP SPSP SUPPLY AIR STATIC PRESSURE SFST SUPPLY FAN STATUS SAT SUPPLY FAN STATUS SAT SUPPLY AIR TEMPERATURE DWHT DWHSP WATER HEATER SETPOINT DWHSP WATER HEATER STATUS RCPST RECIRC PUMP STATUS RCPSS RECIRC PUMP STATUS CLGSTG—1 STAGE 1 COOLING STATUS CLGSTG—2 STAGE 2 COOLING STATUS HTGSTG—1 STAGE 1 HEATING STATUS HTGSTG—2 STAGE 2 HEATING STATUS BD BYPASS DAMPER EFSS EXHAUST FAN START/STOP CO2 CARBON DIOXIDE HUM HUMIDITY RAT RETURN AIR TEMPERATURE ECOS ECONOMISER ON/OFF ECOP ECONOMISER TEMP SETPOINT OADP OUTSIDE AIR DAMPER SETPOINT EFFB EXHAUST FAN FEEDBACK SFFB SUPPLY FAN FEEDBACK OAT OUTDOOR HUMIDITY ECONE ECONOMISER ENABLE PEE POWER EXHAUST ENABLE			
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PEE POWER EXHAUST ENABLE	ОНИМ	OUTDOOR HUMIDITY	
	ECONE	ECONOMISER ENABLE	
SPCT SPACE TEMPERATURE	PEE	POWER EXHAUST ENABLE	
SI SI AGE TEMPERATURE	SPCT	SPACE TEMPERATURE	

CONTRACTOR SHALL CHECK ALL DIMENSIONS ON THE WORK AND REPORT ANY DISCREPANCY TO THE CONSULTANT BEFORE PROCEEDING. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL AUTHORIZED IN WRITING BY CONSULTANT.



		ISSUE
NO.	DATE	DESCRIPTION
1	2023.06.30	ISSUED FOR CLIENT REVIEW
2	2023.08.02	ISSUED FOR TENDER

PROJECT CONTACT

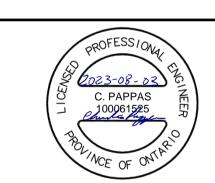
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THIS DRAWING SHALL BE READ IN CONJUNCTION WITH MECHANICAL SPECIFICATION SUBMITTED FOR THIS PROJECT.



Smith + Andersen

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PROJECT:

REPLACEMENT OF ROOF

TOP UNITS— POA

COURTHOUSE

5 RAY LAWSON BOULEVARD BRAMPTON, ONTARIO CITY OF BRAMPTON SHEET TITLE:

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