

BUILDING PERMIT

This card must be kept posted in a conspicuous place on site of construction.

25 159679 HVA 00 MS

Site Address 330 PROGRESS AVE

Project Description Police Station with Detention;

Building Permit Related(MS)

Date Issued Friday July 18, 2025

Kamal Gogna, P. Eng.
Interim Chief Building
Official & Executive Director

Anthony De Francesca
Deputy Chief Building Official and
Director

THIS IS YOUR PERMIT TO CONSTRUCT
PERMIT NUMBER: 25 159679 HVA 00 MS

Owner:

CITY OF TORONTO

CITY OF TORONTO

Address:

C/O ENERGY MANAGEMENT, CORPORATE SERVICES
55 JOHN ST 2FL
TORONTO, ON M5V 3C6
CAN

C/O ATEF BOULOS
55 JOHN ST
TORONTO ON

Project Description: Police Station with Detention; Building Permit Related(MS)

Project Location: 330 PROGRESS AVE

Ward:

The issuance of this permit is based on the drawings, specifications, details and information submitted with the application. The submitted documents have been reviewed for compliance with the Ontario Building Code, Zoning By-laws, applicable regulations and legislation.

The referenced permit number listed above and on your permit placard also appears on all plans reviewed for this building permit application. The validity of this permit is restricted to the person/company named as owner. Permit ownership cannot be transferred unless prior written authorization is given by the Chief Building Official.

The extent of construction authorized under this permit is limited to the description contained herein as follows:
HVAC - Proposal for BAS control and air handling unit replacement and related new roof opening

Stated work and use must be in accordance with the plans, specifications, building permit notes and other information issued with this building permit. Changes to any documents submitted are not to be made unless prior authorization is obtained from the Chief Building Official or designate. False information may be grounds for revocation of the building permit.

Notwithstanding, it is the responsibility of the owner to comply with requirements of the Ontario Building Code and applicable laws as well as to ensure compliance ..

The permit placard must be posted in a conspicuous place on the construction site.

Anthony De Francesca
Deputy Chief Building Official
Scarborough District

Issued by: Nyilas, Martin
Date Issued: July 18, 2025

Please see the second page of this letter for additional requirements and inspection information.

WHEN YOU BEGIN DEMOLITION/CONSTRUCTION ...

Site Fencing

As soon as construction or demolition starts, your site must be entirely surrounded by a fence which is in compliance with the City of Toronto Municipal Code Chapter 363, Article III. The minimum requirement is plastic mesh fencing, 1.2 metres high, tied to posts spaced no more than 1.2 metres apart with an 11 gauge top and bottom wire threaded through the mesh and looped around each post. The Municipal Code is available on the City website at: http://www.toronto.ca/legdocs/municode/1184_363.pdf

Construction Noise

Any construction which generates noise is prohibited in residential areas between the hours of 7:00 p.m. one day to 7:00 a.m. the next day, 9:00 a.m. on Saturdays, and all day Sunday and Statutory holidays.

When To Call For Inspection

You are required by Division C, Part 1, Article 1.3.5.1. of the Ontario Building Code, to notify the building inspection office at several prescribed stages of construction. Please contact the building inspection office at the telephone number listed below, when each of the following stages are substantially complete:

Inspection Stages

* HVAC/Extraction Rough-in

* HVAC Final

* Occupancy

To Schedule your Next Mandatory Inspection

When you are ready to book your inspection, you may request an inspection online from your computer or smart phone using Toronto Building's Inspection Request web application at www.toronto.ca/building-inspection-request.

Alternatively, you may contact your local building inspection office by telephone at 416-338-0700, by fax 416-696-4166 or by email to SCBldgInsp@toronto.ca.

Inspections will take place within two days commencing at the start of business on the day following your notification (Inspection Request).

Please leave a telephone number where you can be reached or a message can be left.

The inspector assigned to your project is Shameed Ali (416) 338-0892

PERMIT PLANS MUST BE ON SITE

Your permit plans and specifications must be on site at all times. Inspections are conducted with your copy of the plans.

BULLETIN - CONSTRUCTION SAFETY

The responsibilities of the City of Toronto under the Occupational Health and Safety Act apply to all our employees regardless of the location at which they are working.

Responsibilities for the Construction Safety Regulations on construction sites are clearly spelled out in the Act under the definitions of constructor, employer, supervisor and worker.

The City of Toronto believes that the goal of safe and injury free construction sites is a priority for all parties involved in building construction.

Safety training for the City of Toronto Building Inspectors is mandatory. However the delivery of a safe working environment on construction sites must include the compliance of individual builders with the Occupational Health and Safety Act.

Safety measures include the following:

1. Temporary guards on all openings,
2. Correct use of ladders,
3. Temporary or permanent stairs above or below grade by the time the sub floor is complete,
4. Clear and safe access to the site,
5. Protection of trenches and excavation below four feet deep, and
6. Correct use of fall prevention equipment where required.

As the employer responsible for the safety of building inspectors, the City of Toronto has instructed its Building Inspectors not to conduct inspections on sites where conditions exist that could jeopardize their health and safety.

The following are examples of conditions which may jeopardize the health and safety of inspectors:

1. Guards are missing,
2. Ladders do not meet regulations,
3. Temporary or permanent stairs, above or below grade, to all floor levels are not provided as required.
4. Access to the site has impediments or hazards, or
5. Trenches or excavations lack required shoring or slope of bank.

Prior to calling for an inspection the appropriate safety measures shall be in place as a site inadequately provided with these measures is not ready for inspection. The City of Toronto Building Inspectors will cooperate with builders regarding the timing of making provision for these safety measures. However, if the measures are not provided, an Order Not To Cover could be issued and the Ministry of Labour informed.

We look forward to working with you toward the goal of a safe environment for all workers.

Notice of Project - Please be advised that the Ministry of Labour requires a Notice of Project be filed with them before starting any project costing \$50,000 or more.

For more information about the Notice of Project form and construction information please visit Ministry of Labour website at: <https://www.labour.gov.on.ca/english/hs/forms/>

Report an Incident

Notify the ministry of fatalities, critical injuries, work refusals, reprisals and unsafe work practices.

Ministry of Labour Health & Safety Contact Centre

Toll-free: 1-877-202-0008

TTY: 1-855-653-9260

Fax: 905-577-1316

Construction of the work approved in this building permit must be carried out with reasonable care to ensure protection for everyone on the construction site from the hazards associated with all overhead and underground power lines. Obtain further information at: <http://www.torontohydro.com/powerlinesafety>

Building Permit 332_12

The reviewed plans and specifications must be available on site during construction/demolition. Changes to these plans and specifications are not to be made unless prior written approval is obtained from the Chief Building Official.

The owner/permit holder is required to comply with the following Permit Notes, which are part of the reviewed permit documents:

- ☐ Mechanical drawings shall be read in conjunction with architectural drawings and specifications.

The City has relied upon the plans and drawings prepared and submitted by the qualified engineer/designer on this project. The issuance of a permit does not imply a complete design review of this project has been performed and does not relieve the owner and designers from the need to comply with the Ontario Building Code and referenced standards where contraventions are subsequently noted.

Mechanical drawings shall be read in conjunction with architectural drawings and specifications.

All HVAC shall conform to the Ontario Building Code, Part 6.

Do not cover any ductwork and piping prior to inspection conforming to the Building Code Act.

All ductwork and fittings shall be constructed and installed in conformance with OBC 3.6.5. & 6.3.2, SMACNA Manuals and ASHRAE Standards,

All materials within the ceiling space used as a return air plenum shall have a maximum flame spread rating of 25 and a maximum smoke developed rating of 50 and all requirements of OBC 3.6.5. & 6.3.2. should be followed in this regard.

Adequate fresh air should be provided according to OBC Part-6 and ASHRAE-62.1

"Refer to the Building Permit for fire separations:

Openings in a fire rated separation shall be protected with a listed closure per CAN/ULC-S112, ""Standard Method of Fire Test of Fire-Damper Assemblies"" as per OBC 6.9 and 3.1.8.4.

The continuity of a fire separation shall be maintained where it abuts another fire separation, a floor, a ceiling or an exterior wall assembly as per 3.1.8.3."



PERMIT REVIEWED FOR COMPLIANCE WITH
THE ONTARIO BUILDING CODE

25 159679 HVA 00

ZONING		
O.B.C.	Adeli, Aria	14/Jul/2025
FIRE SERVICES		

O.B.C. (S)

REVIEWED FOR
HVAC ONLY.

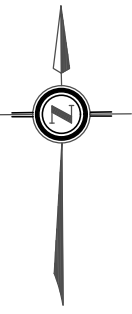
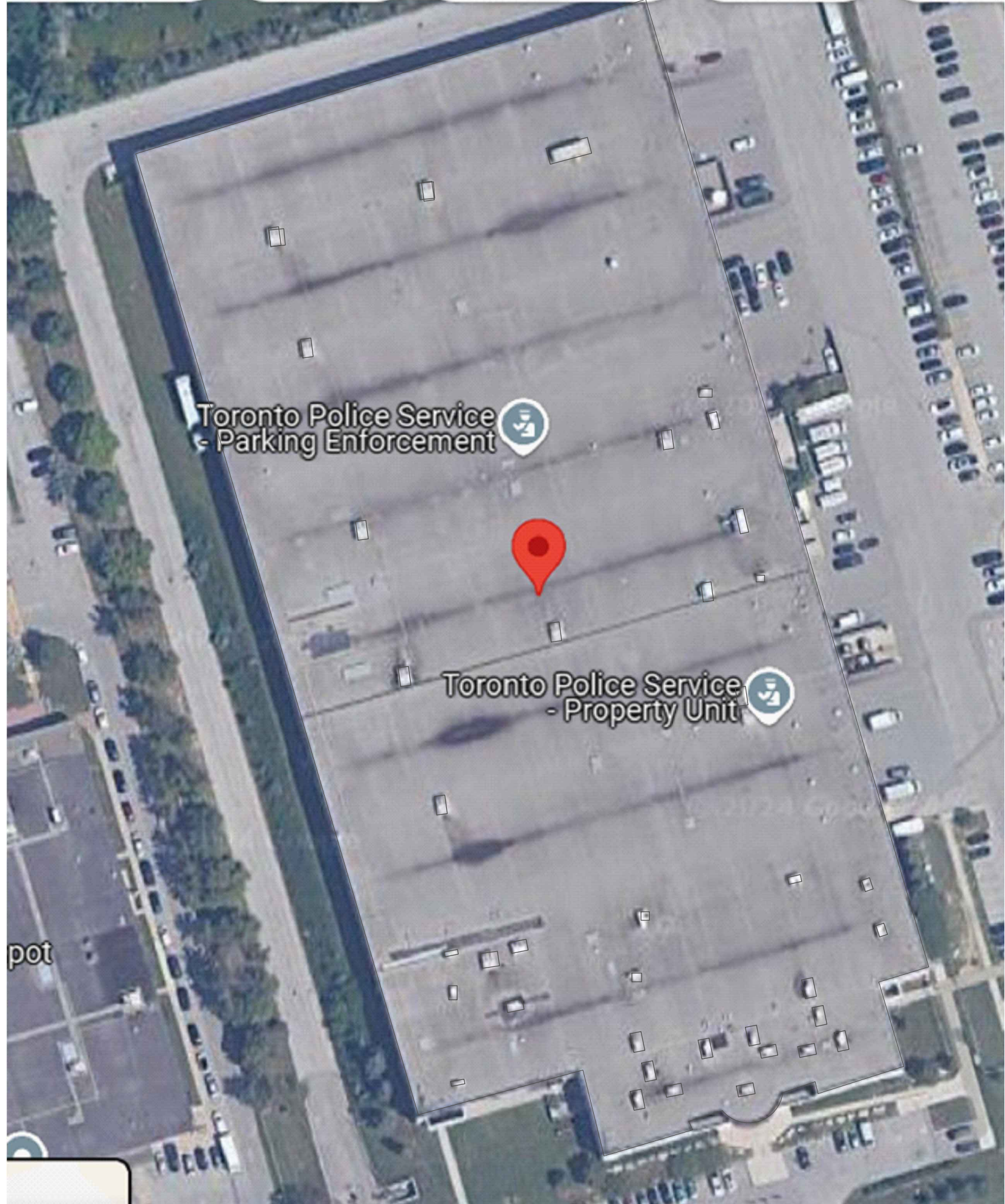


IMAGE COURTESY
GOOGLE MAPS

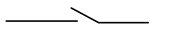
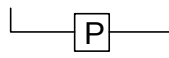
1
M1 KEY PLAN SHOWING EXISTING EQUIPMENT LAYOUT ON ROOF
NOT TO SCALE

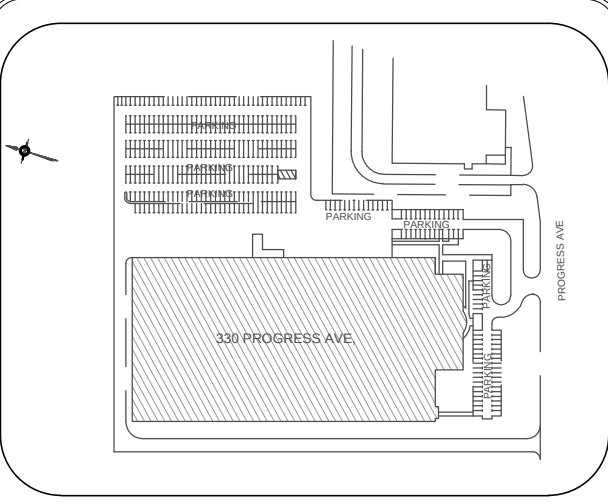


PERMIT REVIEWED FOR COMPLIANCE WITH
THE ONTARIO BUILDING CODE

25 159679 HVA 00

ZONING		
O.B.C.		
FIRE SERVICES		
O.B.C. (S)		

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
	EXISTING (SHOWN AS THIN LINE)
	NEW INSTALLATION (SHOWN AS THICKER LINE)
	EXISTING TO BE DEMOLISHED
	LOCAL ELECTRIC DISCONNECT
	DUCT MOUNTED TEMPERATURE SENSOR
	DUCT MOUNTED PRESSURE SENSOR
	DIFFERENTIAL PRESSURE SENSOR
	ORIGINAL EQUIPMENT MANUFACTURER
	MOTORIZED DAMPER
	VARIABLE FREQUENCY DRIVE
	INDIRECT GAS FIRED SUPPLEMENTARY HEATER
	DX COIL - HEATING / COOLING
	AIR FILTER
	SPACE TEMPERATURE SENSOR
	SPACE PRESSURE SENSOR
	SPACE CARBON MONOXIDE SENSOR
	SPACE NITROGEN OXIDE(S) SENSOR
	POWER WIRING
	FIELD CONTROL WIRING
	EQUIPMENT CONTROL UNIT
	BUILDING AUTOMATION SYSTEM
	HUMIDITY SENSOR
	USER OPERATED SWITCH



KEY PLAN		
5		
4		
3		
2	ISSUED FOR TENDER / PERMIT	MAR 16, 25
1	For Client Review - 60% DD	DEC 17,24
NO.	REVISION	DATE

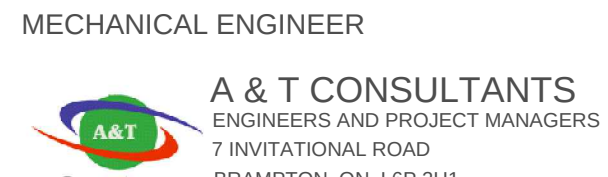
NOTE:
CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME, REPORTING ANY DISCREPANCIES TO THE OWNER, BEFORE TENDER CLOSING.

LATEST APPROVED DRAWINGS ONLY TO BE USED FOR CONSTRUCTION.

PRINTS ARE NOT TO BE SCALED.



CORPORATE REAL ESTATE MANAGEMENT
METRO HALL, 55 JOHN STREET
2ND FLOOR
TORONTO, ONTARIO, M5V 3C6



MECHANICAL ENGINEER

A & T CONSULTANTS
ENGINEERS AND PROJECT MANAGERS
7 INVITATIONAL ROAD
BRAMPTON, ON L6P 2H1
PH: 416-841-8869
FAX: 647-367-0412



TABCON
CONSULTING INC.

494 McNicoll Avenue, Suite # 201
Toronto, Ontario, M2H 2E1
Tel. : (647) 974-7006
Web Site : www.tabcon.com

Project Name :
TPS POLICE WAREHOUSE AND OFFICE BUILDING

Project Address :
330 PROGRESS AVENUE
TORONTO, ON

Job Description :
UPGRADE OF BAS CONTROLS AND REPLACEMENT OF EXISTING ROOFTOP HVAC PACKAGED AIRCONDITIONERS

Drawing Title:
LEGEND AND ABBREVIATION, DRG LIST, KEY MAP SHOWING EXISTING LAYOUT OF HVAC EQUIPMENT ON ROOF

Design:	J.T.
DRAWN:	J.T.
Approv.:	J.T.
Scale:	NOT TO SCALE
Date:	DECEMBER 10, 2024

Project No.	Dwg.No.
Job No. 23-1059	M1

DRAWING LIST	
DRAWING NO	TITLE
M1	LEGEND AND ABBREVIATION, DRG LIST, KEY MAP SHOWING EXISTING LAYOUT OF HVAC EQUIPMENT ON ROOF
M2	EXISTING HVAC ROOFTOP PACKAGED AIRCONDITIONER SCHEDULE
M3	NEW HVAC ROOFTOP EQUIPMENT SCHEDULE
M4	HVAC DEMOLITION LAYOUT - ROOF
M5	HVAC AND BAS CONTROLS - NEW INSTALLATION LAYOUT - GROUND FLOOR
M6	HVAC LAYOUT - SECOND FLOOR
M7	HVAC NEW INSTALLATION LAYOUT - ROOF
M8	BAS CONTROL SCHEMATICS - BAS ARCHITECTURE AND NOTES
M9	BAS CONTROL SCHEMATICS AND CONTROL SEQUENCE - UNITARY EQUIPMENT
M10	BAS CONTROL SCHEMATICS - ROOFTOP HVAC PACKAGED UNITS
M11	BAS CONTROL SCHEMATICS - ROOFTOP HVAC PACKAGED UNITS
M12	BAS CONTROL SCHEMATICS AND CONTROL SEQUENCE - EXHAUST FANS
M13	HVAC ROOFTOP UNIT ZONING DETAILS + BAS SCOPE OF WORK + TESTING AND BALANCING SCOPE OF WORK
M14	EXHAUST FANS AND UNITARY HVAC UNITS - BAS SCOPE OF WORK

ABOVE DRAWINGS TO BE READ IN CONJUNCTION WITH PROJECT SPECIFICATIONS

AS PART OF THIS CONTRACT, THE CONTRACTOR TO CARRYOUT THE FOLLOWING PRIOR TO SUBMISSION OF SHOP DRAWINGS FOR REVIEW AND START OF DEMOLITION WORK. CARRY ALL ASSOCIATED COSTS IN THE TENDER PRICE.

- HIRE SERVICES OF A LICENSED ELECTRICIAN TO REVIEW THE EXISTING POWER FEED FOR ALL NEW HVAC EQUIPMENT (CABLE SIZE, BREAKER SIZE AND DISCONNECT SIZE). PROVIDE A REPORT TO ENGINEER FOR REVIEW
- HIRE AN AIR AUDIT FIRM AND MEASURE THE AIRFLOW / STATIC PRESSURE / OUTDOOR AIR INTAKE AIRFLOW (WHERE POSSIBLE TO MEASURE) FOR THE EXISTING EQUIPMENT WHICH ARE NOTED TO BE DEMOLISHED. PROVIDE REPORT TO ENGINEER FOR REVIEW.

CONTROLS ABBREVIATIONS

FIRST LETTER		SECOND LETTER		THIRD LETTER	
A	AIR	P	PRESSURE	D	DIFFERENTIAL
E	EQUIPMENT	SS	START/STOP	A	ALARM
D	DAMPER	ST	STATUS		
O	OCCUPANCY	T	TEMPERATURE		
		X	POSITION		
		V	SPEED		
		Q	QUALITY		
		I	POWER DRAW		
		M	MODE		
		L	LOADING		
		F	FLOW		
		H	REL. HUMIDITY		

XX-YYYYY

BMS POINT

POINT ABBREVIATION

POINT TYPE
AI: ANALOG INPUT
AO: ANALOG OUTPUT
DI: DIGITAL INPUT
DO: DIGITAL OUTPUT





TORONTO

CORPORATE REAL ESTATE MANAGEMENT
 METRO HALL, 55 JOHN STREET
 2ND FLOOR
 TORONTO, ONTARIO, M5V 3C6

Project No.	Dwg.No.
Job No. 23-1059	M2



NEW ROOF TOP PACKAGE UNIT SCHEDULE													
TAG	UNIT	RTU-1	RTU-5	RTU-6	RTU-8	RTU-28	RTU-32	RTU-33	RTU-34	RTU-35	RTU-36	RTU-37	RTU-38
GENERAL DATA													
STATUS		NEW EQUIPMENT REPLACING EXISTING	NEW EQUIPMENT REPLACING EXISTING	NEW EQUIPMENT REPLACING EXISTING	NEW EQUIPMENT REPLACING EXISTING	NEW EQUIPMENT REPLACING EXISTING	NEW EQUIPMENT REPLACING EXISTING	NEW EQUIPMENT REPLACING EXISTING	NEW EQUIPMENT REPLACING EXISTING	NEW EQUIPMENT REPLACING EXISTING	NEW EQUIPMENT REPLACING EXISTING	NEW EQUIPMENT REPLACING EXISTING	NEW EQUIPMENT REPLACING EXISTING
TYPE		INDIRECT GAS FIRED HEATING- SINGLE ZONE- VARIABLE AIR VOLUME - CURB MOUNTED - DOWNFLOW	HEAT PUMP - SINGLE ZONE - CONSTANT AIR FLOW - CURB MOUNTED - DOWNFLOW	100% MAKEUP AIR UNIT WITH POWER EXHAUST - ENERGY RECOVERY - HEAT PUMP - INDIRECT GAS FIRED HEAT AS SUPPLEMENTARY HEAT - SINGLE ZONE CONSTANT AIR FLOW - CURB MOUNTED - DOWNFLOW	HEAT PUMP - INDIRECT GAS FIRED HEAT AS SUPPLEMENTARY HEAT - SINGLE ZONE VARIABLE AIR FLOW - CURB MOUNTED - DOWNFLOW	HEAT PUMP - INDIRECT GAS FIRED HEAT AS SUPPLEMENTARY HEAT - SINGLE ZONE VARIABLE AIR FLOW - CURB MOUNTED - DOWNFLOW	HEAT PUMP - SINGLE ZONE - CONSTANT AIR FLOW - CURB MOUNTED - DOWNFLOW	HEAT PUMP - SINGLE ZONE - CONSTANT AIR FLOW - CURB MOUNTED - DOWNFLOW	HEAT PUMP - SINGLE ZONE - CONSTANT AIR FLOW - CURB MOUNTED - DOWNFLOW	HEAT PUMP - SINGLE ZONE - CONSTANT AIR FLOW - CURB MOUNTED - DOWNFLOW	HEAT PUMP - SINGLE ZONE - CONSTANT AIR FLOW - CURB MOUNTED - DOWNFLOW	HEAT PUMP - INDIRECT GAS FIRED HEAT AS SUPPLEMENTARY HEAT - SINGLE ZONE VARIABLE AIR FLOW - CURB MOUNTED - DOWNFLOW	HEAT PUMP - INDIRECT GAS FIRED HEAT AS SUPPLEMENTARY HEAT - SINGLE ZONE VARIABLE AIR FLOW - CURB MOUNTED - DOWNFLOW
SERVING		CAR STORAGE GARAGE	WAREHOUSE	DRUG ROOM	WAREHOUSE OFFICES	PSRT OFFICE	WAREHOUSE	WAREHOUSE	WAREHOUSE	WAREHOUSE	WAREHOUSE	WAREHOUSE	WAREHOUSE
CONTROL SCHEMATICS + CONTROL SEQUENCE (++)		REFER TO DETAIL 1 ON DRAWING M10	REFER TO DETAIL 4 ON DRAWING M10	REFER DETAIL 5 ON DRAWING M10	REFER DETAIL 1 ON DRAWING M11	REFER DETAIL 4 ON DRAWING M11	REFER TO DETAIL 4 ON DRAWING M10	REFER TO DETAIL 4 ON DRAWING M10	REFER TO DETAIL 4 ON DRAWING M10	REFER TO DETAIL 4 ON DRAWING M10	REFER TO DETAIL 4 ON DRAWING M10	REFER TO DETAIL 1 ON DRAWING M11	REFER TO DETAIL 1 ON DRAWING M11
MAKE		AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON
MODEL		RTU-26	RNA-013	RNA-006	RNA-011	RNA-016	RNA-013	RNA-013	RNA-013	RNA-013	RNA-013	RNA-013	RNA-013
APPROX WEIGHT	LBS	3,575	1,885	1610	1,860	3,095	1,885	1,885	1,885	1,885	1,885	2,065	2,065
AIRFLOW													
SUPPLY AIR FLOW	CFM	5,700 - 15,400	5,000	2,250	4,000	6,200	5,000	5,000	5,000	5,000	5,000	5,000	5,000
EXTERNAL STATIC PRESSURE	INCH	1.25	0.75	0.75	1	1	0.75	0.75	0.75	0.75	0.75	0.75	0.75
OUTDOOR AIRFLOW	CFM	1,250 - 15,400	1,350	2,250	910	1,500	1,350	1,350	1,350	1,350	1,350	1,350	1,350
SUPPLY AIR FAN BHP	HP	2 X 4.32 HP	3.06	1.58	2.47	3.63	3.06	3.06	3.06	3.06	3.06	3.06	3.06
BLOWER FAN MOTOR HP	HP	2 X 5 HP	5	2	3.00	5	5	5	5	5	5	5	5
BAROMETRIC DAMPER		YES	YES	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES
POWER EXHAUST	HP	NO	NO	YES	YES	YES	NO	NO	NO	NO	NO	NO	NO
COOLING													
NOMINAL COOLING CAPACITY	TR	NO COOLING	12.50	7.00	10	16	12.50	12.50	12.50	12.50	12.50	12.50	12.50
STAGES			2	1	2	2	2	2	2	2	2	2	2
EER			11.9	12.7	12.5	11.3	11.9	11.9	11.9	11.9	11.9	11.9	11.9
REFRIGERANT			R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
PRIMARY HEATING MODE													
TYPE		NIL	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
HEATING CAPACITY AT 32 DEG F	MBH		108	53	83	158	108	108	108	108	108	108	108
HEATING CAPACITY AT 17 DEG F	MBH		85	41	67	130	85	85	85	85	85	85	85
COP AT 32 DEG F			2.63	5.25	2.33	2	2.63	2.63	2.63	2.63	2.63	2.63	2.63
SUPPLEMENTARY HEAT													
TYPE		INDIRECT FIRED	NOT REQUIRED	INDIRECT FIRED	INDIRECT FIRED	INDIRECT FIRED	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	INDIRECT FIRED	INDIRECT FIRED
HEATING INPUT	MBH	600		210	195	270						293	293
HEATING OUTPUT	MBH	486		170	158	219						237	237
STAGES		MODULATING		MODULATING	MODULATING	MODULATING						MODULATING	MODULATING
FUEL		NATURAL GAS		NATURAL GAS	NATURAL GAS	NATURAL GAS						NATURAL GAS	NATURAL GAS
ELECTRICAL DATA - CONTRACTOR TO SITE VERIFY EXISTING POWER SUPPLY PRIOR TO ORDER OF NEW EQUIPMENT													
POWER SUPPLY		575 V / 3 PH / 60 HZ	575 V / 3 PH / 60 HZ	575 V / 3 PH / 60 HZ	575 V / 3 PH / 60 HZ	575 V / 3 PH / 60 HZ	575 V / 3 PH / 60 HZ	575 V / 3 PH / 60 HZ	575 V / 3 PH / 60 HZ	575 V / 3 PH / 60 HZ	575 V / 3 PH / 60 HZ	575 V / 3 PH / 60 HZ	575 V / 3 PH / 60 HZ
MCA	A	15	27	18	26	39	27	27	27	27	27	27	27
MFS	A	20	35	25	30	45	35	35	35	35	35	35	35
ACCESSORIES NOT LISTED ABOVE													
		VARIABLE AIRFLOW UNIT WITH TWO SPEED SETTING	100% OUTDOOR AIR REFERENCE ETHALPY ECONOMIZER	100% OUTDOOR AIR REFERENCE ETHALPY ECONOMIZER	100% OUTDOOR AIR REFERENCE ETHALPY ECONOMIZER	100% OUTDOOR AIR REFERENCE ETHALPY ECONOMIZER	100% OUTDOOR AIR REFERENCE ETHALPY ECONOMIZER	100% OUTDOOR AIR REFERENCE ETHALPY ECONOMIZER	100% OUTDOOR AIR REFERENCE ETHALPY ECONOMIZER	100% OUTDOOR AIR REFERENCE ETHALPY ECONOMIZER	100% OUTDOOR AIR REFERENCE ETHALPY ECONOMIZER	100% OUTDOOR AIR REFERENCE ETHALPY ECONOMIZER	100% OUTDOOR AIR REFERENCE ETHALPY ECONOMIZER
		INTEGRATED BACNET MSTP CONTROLLER	AIR SOURCE HEAT PUMP	AIR SOURCE HEAT PUMP	AIR SOURCE HEAT PUMP	AIR SOURCE HEAT PUMP	AIR SOURCE HEAT PUMP	AIR SOURCE HEAT PUMP	AIR SOURCE HEAT PUMP	AIR SOURCE HEAT PUMP	AIR SOURCE HEAT PUMP	AIR SOURCE HEAT PUMP	AIR SOURCE HEAT PUMP
		18" ROOF CURB - PROVIDE ADAPTER CURB TO SUIT EXISTING SUPPLY DUCTWORK	ECM CONDENSER FAN WITH HEAD PRESSURE CONTROL	ECM CONDENSER FAN WITH HEAD PRESSURE CONTROL	ECM CONDENSER FAN WITH HEAD PRESSURE CONTROL	ECM CONDENSER FAN WITH HEAD PRESSURE CONTROL	ECM CONDENSER FAN WITH HEAD PRESSURE CONTROL	ECM CONDENSER FAN WITH HEAD PRESSURE CONTROL	ECM CONDENSER FAN WITH HEAD PRESSURE CONTROL	ECM CONDENSER FAN WITH HEAD PRESSURE CONTROL	ECM CONDENSER FAN WITH HEAD PRESSURE CONTROL	ECM CONDENSER FAN WITH HEAD PRESSURE CONTROL	ECM CONDENSER FAN WITH HEAD PRESSURE CONTROL
		MERV 8 FILTER	INTEGRATED BACNET MSTP CONTROLLER	INTEGRATED BACNET MSTP CONTROLLER	INTEGRATED BACNET MSTP CONTROLLER	INTEGRATED BACNET MSTP CONTROLLER	INTEGRATED BACNET MSTP CONTROLLER	INTEGRATED BACNET MSTP CONTROLLER	INTEGRATED BACNET MSTP CONTROLLER	INTEGRATED BACNET MSTP CONTROLLER	INTEGRATED BACNET MSTP CONTROLLER	INTEGRATED BACNET MSTP CONTROLLER	INTEGRATED BACNET MSTP CONTROLLER
		CLOGGED FILTER SWITCH	18" ROOF CURB - PROVIDE ADAPTER CURB TO SUIT EXISTING SUPPLY / RETURN DUCTWORK	18" ROOF CURB - PROVIDE ADAPTER CURB TO SUIT EXISTING SUPPLY / RETURN DUCTWORK	18" ROOF CURB - PROVIDE ADAPTER CURB TO SUIT EXISTING SUPPLY / RETURN DUCTWORK	18" ROOF CURB - PROVIDE ADAPTER CURB TO SUIT EXISTING SUPPLY / RETURN DUCTWORK	18" ROOF CURB - PROVIDE ADAPTER CURB TO SUIT EXISTING SUPPLY / RETURN DUCTWORK	18" ROOF CURB - PROVIDE ADAPTER CURB TO SUIT EXISTING SUPPLY / RETURN DUCTWORK	18" ROOF CURB - PROVIDE ADAPTER CURB TO SUIT EXISTING SUPPLY / RETURN DUCTWORK	18" ROOF CURB - PROVIDE ADAPTER CURB TO SUIT EXISTING SUPPLY / RETURN DUCTWORK	18" ROOF CURB - PROVIDE ADAPTER CURB TO SUIT EXISTING SUPPLY / RETURN DUCTWORK	18" ROOF CURB - PROVIDE ADAPTER CURB TO SUIT EXISTING SUPPLY / RETURN DUCTWORK	18" ROOF CURB - PROVIDE ADAPTER CURB TO SUIT EXISTING SUPPLY / RETURN DUCTWORK
		PHASE AND BROWN OUT PROTECTION	MERV 8 FILTER	MERV 13 FILTER	MERV 13 FILTER	MERV 13 FILTER	MERV 8 FILTER	MERV 8 FILTER	MERV 8 FILTER	MERV 8 FILTER	MERV 8 FILTER	MERV 8 FILTER	MERV 8 FILTER
		NON FUSED DISCONNECT	CLOGGED FILTER SWITCH	CLOGGED FILTER SWITCH	CLOGGED FILTER SWITCH	CLOGGED FILTER SWITCH	CLOGGED FILTER SWITCH	CLOGGED FILTER SWITCH	CLOGGED FILTER SWITCH	CLOGGED FILTER SWITCH	CLOGGED FILTER SWITCH	CLOGGED FILTER SWITCH	CLOGGED FILTER SWITCH
			PHASE AND BROWN OUT PROTECTION	PHASE AND BROWN OUT PROTECTION	PHASE AND BROWN OUT PROTECTION	PHASE AND BROWN OUT PROTECTION	PHASE AND BROWN OUT PROTECTION	PHASE AND BROWN OUT PROTECTION	PHASE AND BROWN OUT PROTECTION	PHASE AND BROWN OUT PROTECTION	PHASE AND BROWN OUT PROTECTION	PHASE AND BROWN OUT PROTECTION	PHASE AND BROWN OUT PROTECTION
			STAINLESSS STEEL DRAIN PAN	STAINLESSS STEEL DRAIN PAN	STAINLESSS STEEL DRAIN PAN	STAINLESSS STEEL DRAIN PAN	STAINLESSS STEEL DRAIN PAN	STAINLESSS STEEL DRAIN PAN	STAINLESSS STEEL DRAIN PAN	STAINLESSS STEEL DRAIN PAN	STAINLESSS STEEL DRAIN PAN	STAINLESSS STEEL DRAIN PAN	STAINLESSS STEEL DRAIN PAN
			NON FUSED DISCONNECT	NON FUSED DISCONNECT	NON FUSED DISCONNECT	NON FUSED DISCONNECT	NON FUSED DISCONNECT	NON FUSED DISCONNECT	NON FUSED DISCONNECT	NON FUSED DISCONNECT	NON FUSED DISCONNECT	NON FUSED DISCONNECT	NON FUSED DISCONNECT
				HEAT RECOVERY									
ONLY NEW EQUIPMENT SHOWN IN THIS SCHEDULE. REFER TO EXISTING SCHEDULE FOR EQUIPMENT NOTED TO REMAIN													
(++) - REFER PROJECT SPECIFICATION FOR CONTROL SEQUENCE													



PERMIT REVIEWED FOR COMPLIANCE WITH THE ONTARIO BUILDING CODE

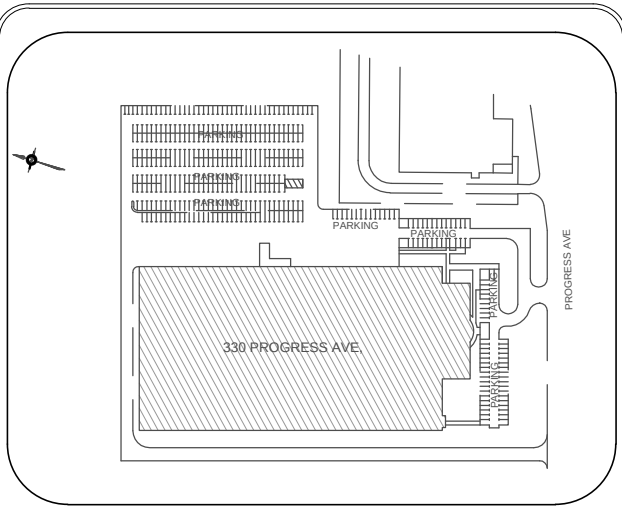
25 159679 HVA 00

ZONING

O.B.C.

FIRE SERVICES

O.B.C. (S)



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2	ISSUED FOR TENDER / PERMIT	MAR 16, 25
1	For Client Review - 60% DD	DEC 17, 24
NO.	REVISION	DATE

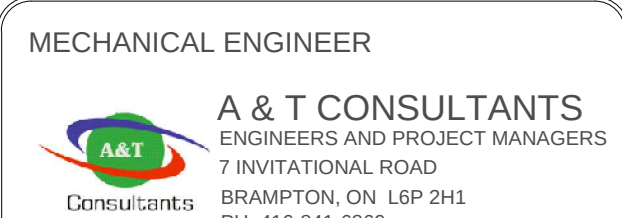
NOTE:
CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME, REPORTING ANY DISCREPANCIES TO THE OWNER, BEFORE TENDER CLOSING.

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7 INVITATIONAL ROAD
BRAMPTON, ON L6P 2H1
PH: 416-841-8869
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TABCON CONSULTING INC.
494 McNicoll Avenue, Suite # 201
Toronto, Ontario, M2H 2E1
Tel. : (647) 974-7006
Web Site : www.tabcon.com

Project Name :
TPS POLICE WAREHOUSE AND OFFICE BUILDING

Project Address :
330 PROGRESS AVENUE
TORONTO, ON

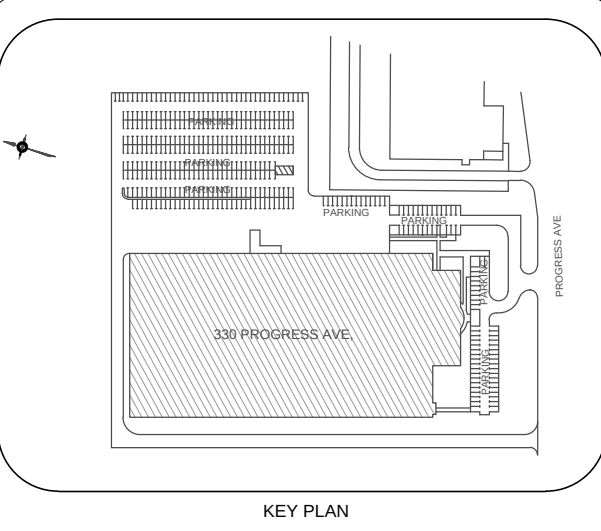
Job Description :
UPGRADE OF BAS CONTROLS AND REPLACEMENT OF EXISTING ROOFTOP HVAC PACKAGED AIRCONDITIONERS

Drawing Title:
NEW HVAC ROOFTOP EQUIPMENT SCHEDULE

Design:	J.T.
DRAWN:	J.T.
Approv.:	J.T.
Scale:	NOT TO SCALE
Date:	DECEMBER 10, 2024

Project No.	Dwg.No.
Job No. 23-1059	M3





NO.	REVISION	DATE
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2	ISSUED FOR TENDER / PERMIT	MAR 16, 25
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Tel. : (647) 974-7006
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Project Name :
TPS POLICE WAREHOUSE AND OFFICE BUILDING

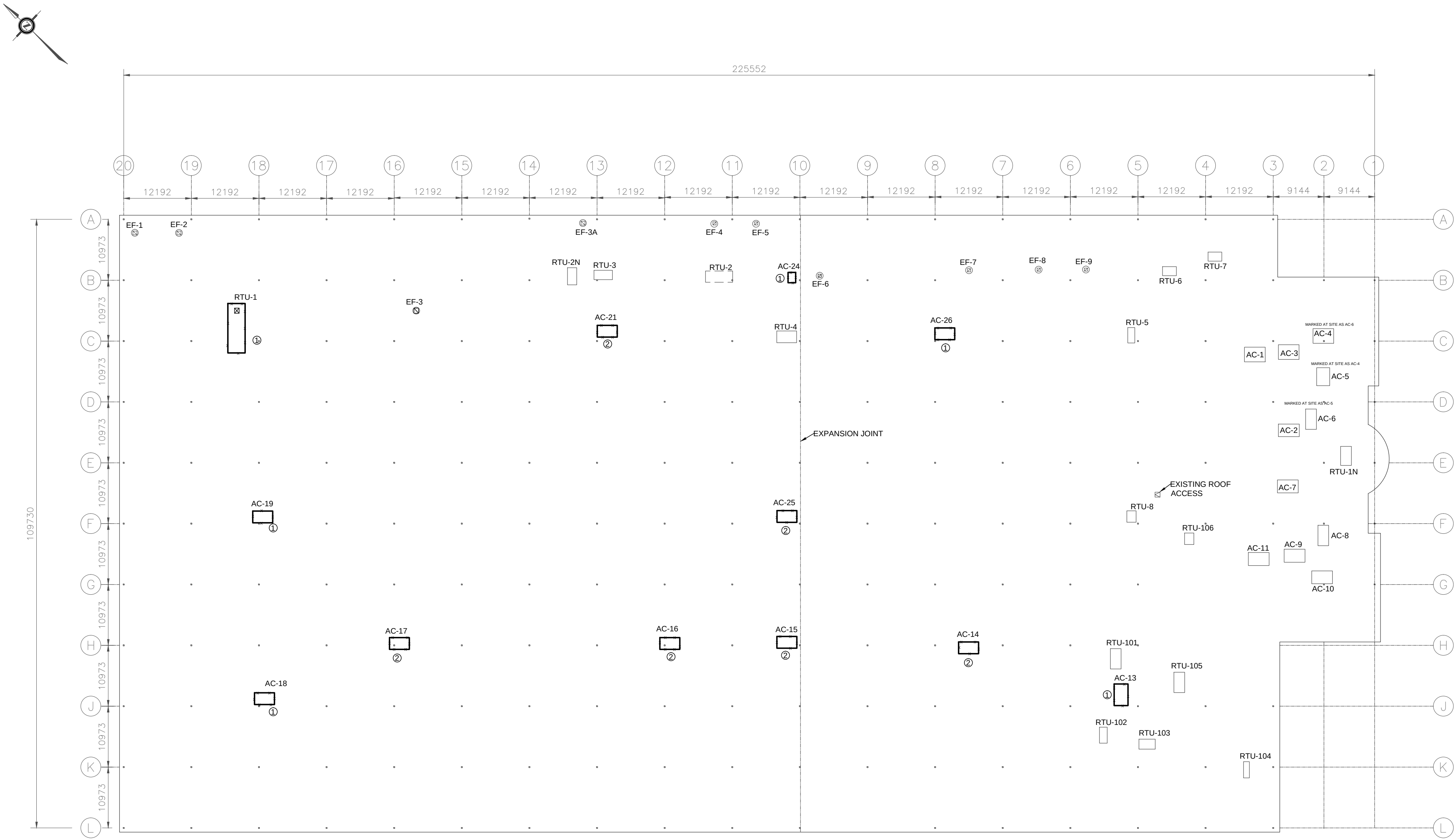
Project Address :
330 PROGRESS AVENUE
TORONTO, ON

Job Description :
UPGRADE OF BAS CONTROLS AND REPLACEMENT OF EXISTING ROFTOP HVAC PACKAGED AIRCONDITIONERS

Drawing Title
HVAC DEMOLITION LAYOUT - ROOF

Design:	J.T.
DRAWN:	J.T.
Approv.:	J.T.
Scale:	1 : 500
Date:	DECEMBER 10, 2024

Project No.	Dwg No.
Job No. 23-1059	M4



NOTE:
LOCATION OF THE HVAC ROOFTOP EQUIPMENT SHOWN ON THIS PLAN IS TRACED USING GOOGLE MAPS AND TO BE CONSIDERED AS APPROXIMATE. INSTALLER IS REQUIRED TO SITE COORDINATE

SOME OF THE TAGGING OF EQUIPMENT ON SITE ARE MISSING OR DO NOT RELATE WITH TAG USED ON THE BAS. TAG NUMBERS AS USED IN THE EXISTING BAS HAS BEEN SHOWN FOR IDENTIFICATION OF THE EXISTING EQUIPMENT

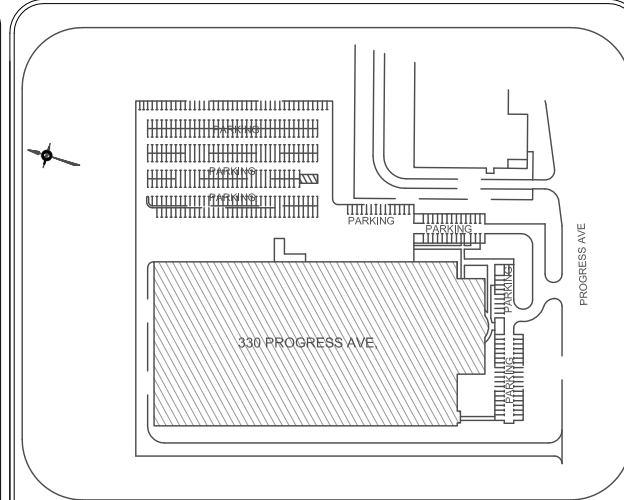
ALL EQUIPMENT (BOTH NEW AND THOSE NOTED AS EXISTING TO REMAIN TO BE RE-TAGGED) AS PER TAG NUMBERS NOTED ON DRAWING M5 UPDATE TAGGING DETAIL ON THE POWER FEEDER SERVING THE EQUIPMENT AT THE ELECTRICAL POWER PANEL
UPDATE TAGGING DETAIL ON THE BUILDING AUTOMATION GRAPHICS AND ALL EQUIPMENT CONTROLLERS TIED WITH THE EQUIPMENT

DEMOLITION NOTES	
①	- DEMOLISH EXISTING ROOF TOP UNIT AND ASSOCIATED ROOF CURB - DISCONNECT POWER FEED FROM LOCAL DISCONNECT - DEMOLISH CONTROL WIRING TO THE EQUIPMENT - DEMOLISH SUPPLY AND RETURN AIR DUCT CONNECTION TO EQUIPMENT - DISCONNECT NATURAL GAS CONNECTION AND TEMPORARILY CAP NATURAL GAS FEED AT THE ISOLATION VALVE - ISOLATE POWER AND GAS SERVICE TO THIS EQUIPMENT AND VENT GAS PIPING PRIOR TO DEMOLITION
②	- DEMOLISH EXISTING ROOF TOP UNIT AND ASSOCIATED ROOF CURB - DISCONNECT POWER FEED FROM LOCAL DISCONNECT - DEMOLISH CONTROL WIRING TO THE EQUIPMENT - DEMOLISH SUPPLY AND RETURN AIR DUCT CONNECTION TO EQUIPMENT - ISOLATE POWER TO THIS EQUIPMENT PRIOR TO DEMOLITION

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ZONING		
O.B.C.	Adeli, Aria	14/Jul/2025
FIRE SERVICES		
O.B.C. (S)		

Refer to the notes/comments on
the first page(s).



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Web Site : www.tabcon.com

Project Name :
TPS POLICE WAREHOUSE AND OFFICE
BUILDING

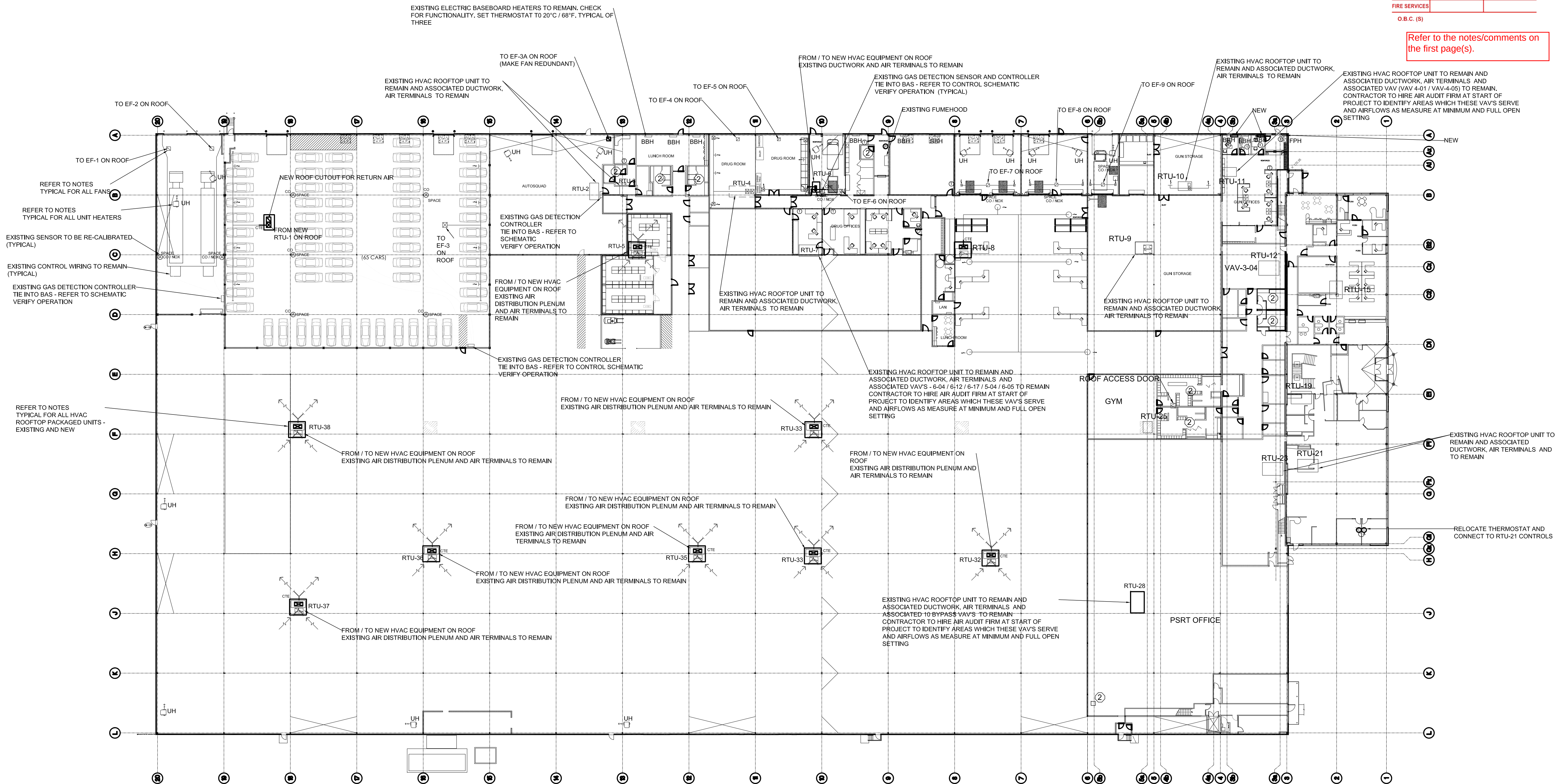
Project Address :
330 PROGRESS AVENUE
TORONTO, ON

Job Description :
UPGRADE OF BAS CONTROLS AND
REPLACEMENT OF EXISTING ROOFTOP
HVAC PACKAGED AIRCONDITIONERS

Drawing Title
HVAC AND BAS CONTROLS
NEW INSTALLATION LAYOUT
GROUND FLOOR

Design:	J.T.
DRAWN:	J.T.
Approved:	J.T.
Scale:	1 : 400
Date:	DECEMBER 10, 2024

Project No.	Dwg.No.
Job No. 23-1059	M5

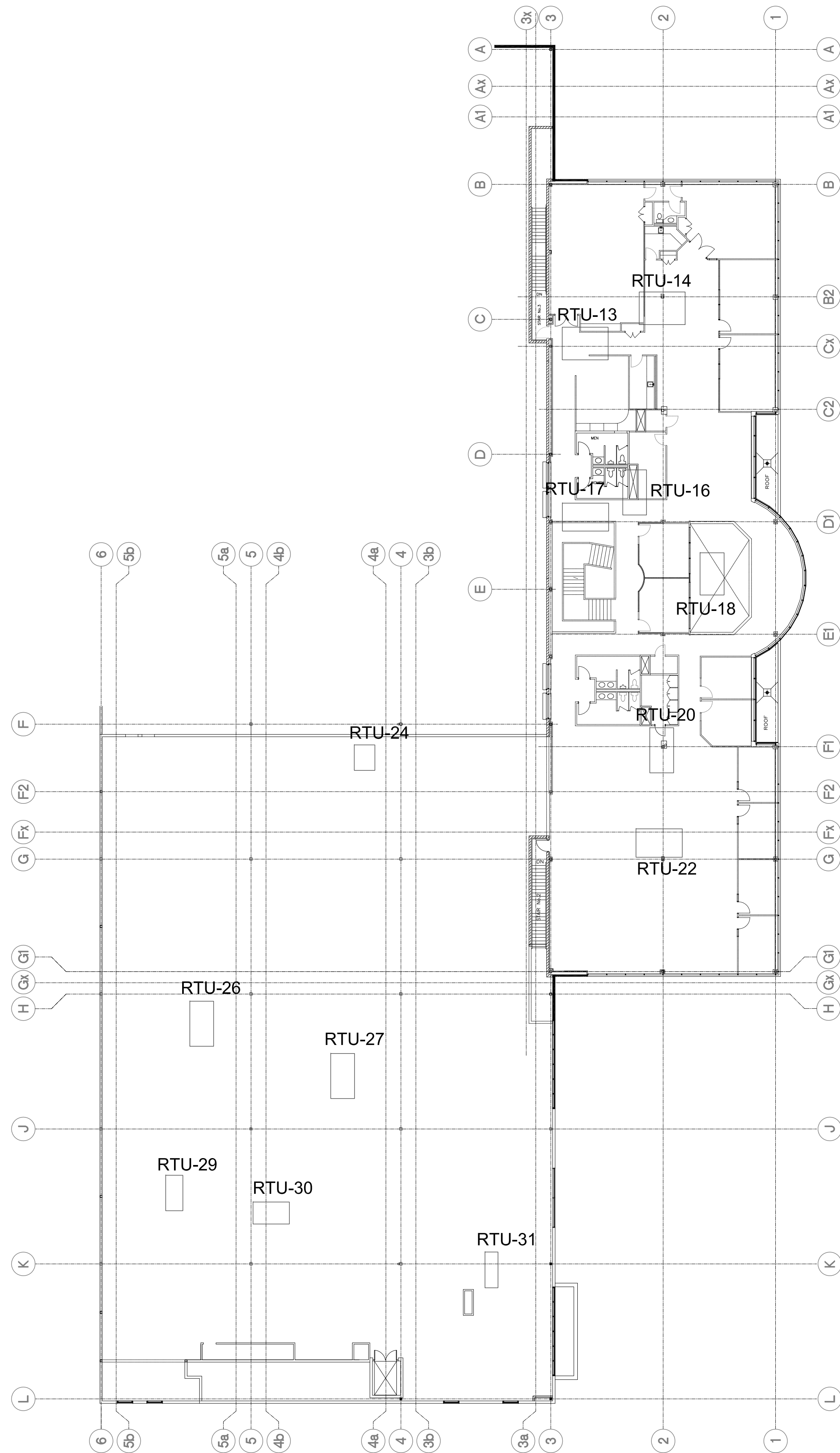


TYPICAL FOR ALL UNIT HEATERS
EXISTING UNIT HEATERS ALONG WITH ASSOCIATED CONTROLS AND THERMOSTAT TO REMAIN
AS PART OF THIS CONTRACT, MECHANICAL CONTRACTOR TO HIRE A MAINTENANCE TECHNICIAN TO
CHECK THE UNIT AND PROVIDE AN INSPECTION REPORT TO THE ENGINEER FOR REVIEW
CHECK UNIT OPERATION AND SET SPACE THERMOSTAT TO 20°C / 68°F (MAX)
LOCATION OF THE EQUIPMENT SHOWN ON THE FLOOR PLAN IS APPROXIMATE - INSTALLER TO SITE
COORDINATE

NOTES
① HEATER OPERATION MONITORED AND CONTROLLED BY BAS
② EXISTING EXHAUST FANS TO REMAIN
OPERATION STATUS TO BE MONITORED AND CONTROLLED BY BAS
FANS TO BE RE-TAGGED TO AVOID CONFLICT WITH TAGS AS NOTED IN THIS PLAN

TYPICAL FOR HVAC ROOFTOP PACKAGED / MAKEUP AIR UNITS - EXISTING AND NEW
EXISTING EQUIPMENT SLATED TO REMAIN AND EXISTING EQUIPMENT NOTED TO BE DEMOLISHED IS IDENTIFIED IN THE PLANS AND
EQUIPMENT SCHEDULE
AS PART OF THIS CONTRACT, MECHANICAL CONTRACTOR TO HIRE A MAINTENANCE TECHNICIAN TO CHECK ALL EXISTING ROOFTOP
EQUIPMENT AND PROVIDE AN INSPECTION REPORT TO THE ENGINEER FOR REVIEW
REFER TO CONTROL SCHEMATICS FOR BAS TIE-IN DETAILS
LOCATION OF EXISTING THERMOSTATS MAY NOT SOMETIMES SHOWN ON THE PLAN. INSTALLER TO LOCATE AND PROVIDE
INFORMATION ON AS BUILT PLANS.
SET OCCUPIED COOLING SET POINT AS 77 DEG F AND HEATING SET POINT AS 72 DEG F.
SET UNOCCUPIED COOLING SET POINT AS 80 DEG F AND HEATING SET POINT AS 68 DEG F.
SET OCCUPANCY SCHEDULE IN CONSULTATION WITH USER
TAG ALL SPACE THERMOSTATS BASED ON THE TAG OF THE HVAC ROOFTOP EQUIPMENT IT IS SERVING
LOCATION OF THE EQUIPMENT SHOWN ON THE FLOOR PLAN AND ROOF PLAN IS APPROXIMATE - INSTALLER TO SITE COORDINATE
REFER TO DRAWING M10 FOR BAS AND TESTING BALANCING REQUIREMENTS FOR EACH HVAC ROOFTOP PACKAGED / MAKEUP AIR
UNITS - BOTH EXISTING AND NEW

TYPICAL NOTE FOR ALL EXHAUST FANS
EXISTING FANS TO REMAIN EXCEPT WHERE UPGRADES ARE NOTED ON THE PLAN
ALL CONTROLS / GAS DETECTION CONTROLS (WHERE APPLICABLE) TO REMAIN
WHERE FANS ARE CONTROLLED BY GAS DETECTION CONTROLS - ALL SENSORS TO BE CALIBRATED AND GAS DETECTION CONTROLS TO
BE VERIFIED FOR OPERATION. PROVIDE CALIBRATION AND VERIFICATION REPORT TO ENGINEER FOR REVIEW
AS PART OF THIS CONTRACT, MECHANICAL CONTRACTOR TO HIRE A MAINTENANCE TECHNICIAN TO CHECK THE FAN AND DRIVE AND
PROVIDE AN INSPECTION REPORT TO THE ENGINEER FOR REVIEW
PROVIDE IDENTIFICATION TAG ON FAN / POWER FEED AND CONTROLS MATCHING THE TAG AS SHOWN ON THE PLAN, IF TAGGING ON SITE
IS DIFFERENT, REPLACE TO MATCH TAG AS NOTED ON THE DRAWING
LOCATION OF THE EQUIPMENT SHOWN ON THE FLOOR PLAN AND ROOF PLAN IS APPROXIMATE - INSTALLER TO SITE COORDINATE

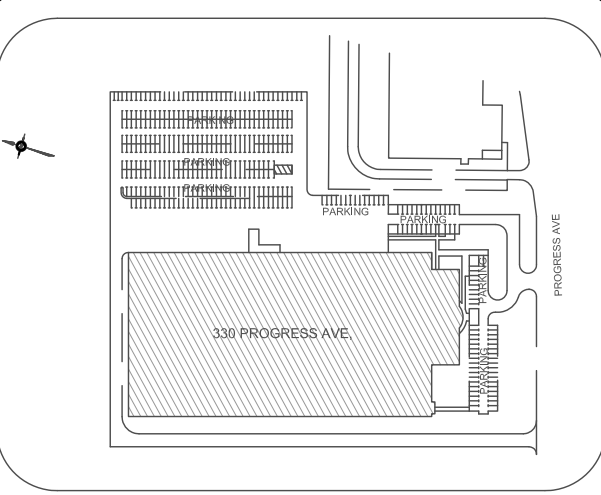


Toronto Building
PERMIT REVIEWED FOR COMPLIANCE WITH
THE ONTARIO BUILDING CODE

25 159679 HVA 00

ZONING		
O.B.C.	Adeli, Aria	14/Jul/2025
FIRE SERVICES		
O.B.C. (S)		

Refer to the notes/comments on
the first page(s).



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494 McColl Avenue, Suite # 201
Toronto, Ontario, M2H 2E1
Tel. : (647) 974-7006
Web Site : www.tabcon.com

Project Name :
TPS POLICE WAREHOUSE AND OFFICE
BUILDING

Project Address :
330 PROGRESS AVENUE
TORONTO, ON

Job Description :
UPGRADE OF BAS CONTROLS AND
REPLACEMENT OF EXISTING ROOFTOP
HVAC PACKAGED AIRCONDITIONERS

Drawing Title
HVAC LAYOUT
SECOND FLOOR

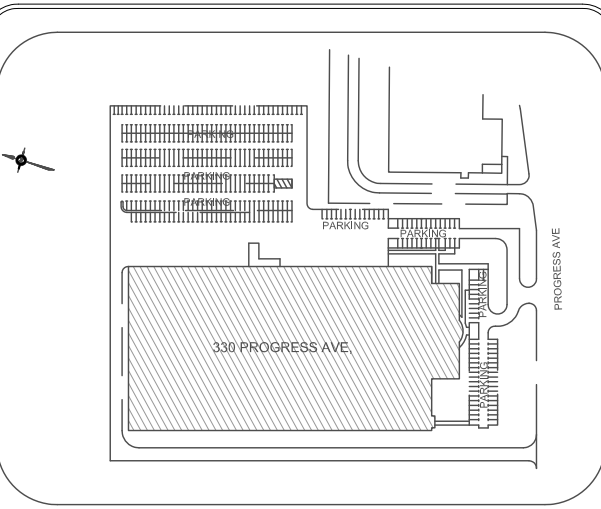
Design:	J.T.
DRAWN:	J.T.
Approv.:	J.T.
Scale:	1 : 500
Date:	DECEMBER 10, 2024

Project No.	Dwg.No.
Job No. 23-1059	M6

25 159679 HVA 00

ZONING		
O.B.C.	Adeli, Aria	14/Jul/2025
FIRE SERVICES		
O.B.C. (S)		

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NO.	REVISION	DATE
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Project Name :
TPS POLICE WAREHOUSE AND OFFICE BUILDING

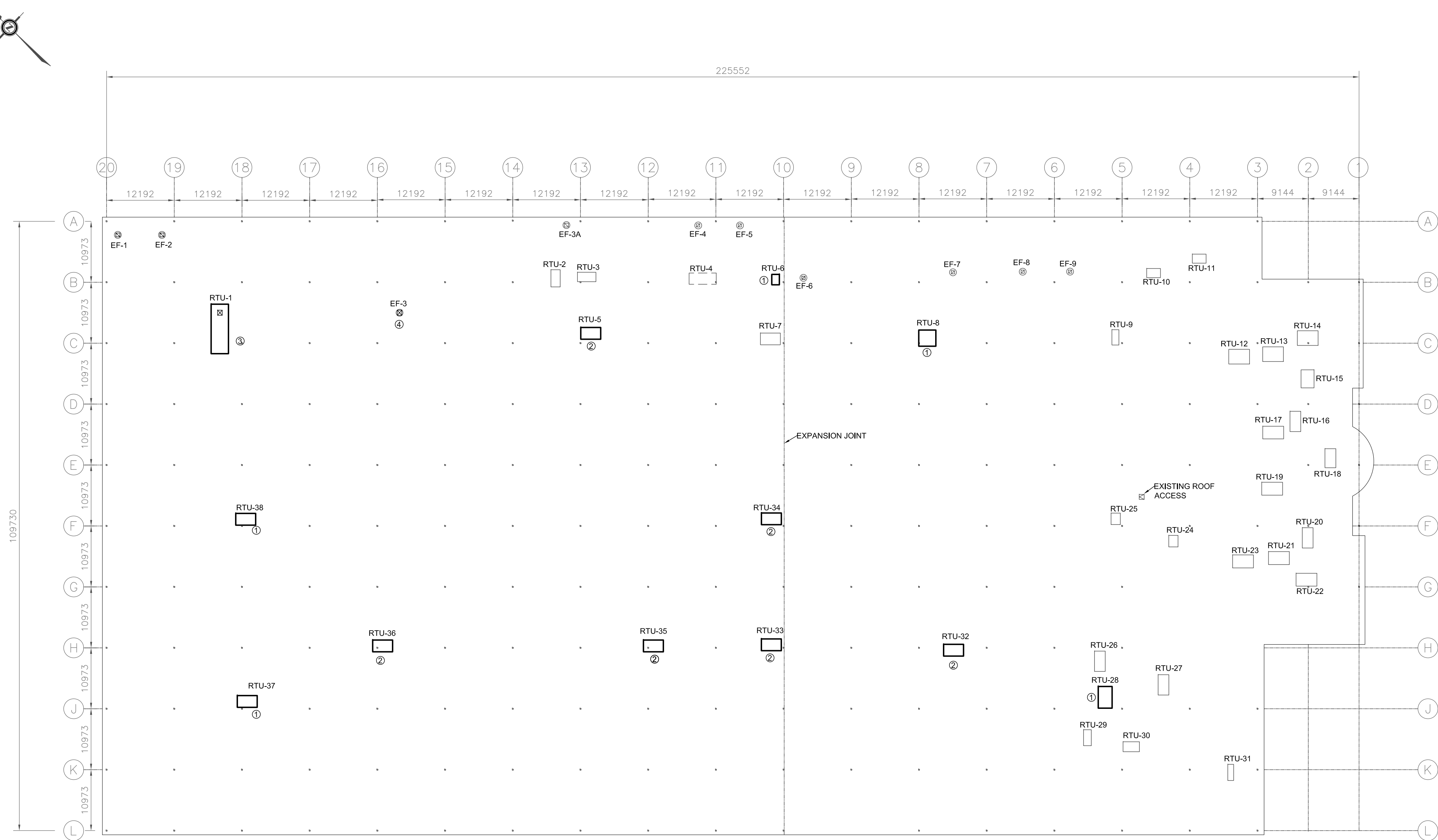
Project Address :
330 PROGRESS AVENUE
TORONTO, ON

Job Description :
UPGRADE OF BAS CONTROLS AND REPLACEMENT OF EXISTING ROOFTOP HVAC PACKAGED AIRCONDITIONERS

Drawing Title
HVAC NEW INSTALLATION LAYOUT - ROOF

Design:	J.T.
DRAWN:	J.T.
Approv.:	J.T.
Scale:	1 : 500
Date:	DECEMBER 10, 2024

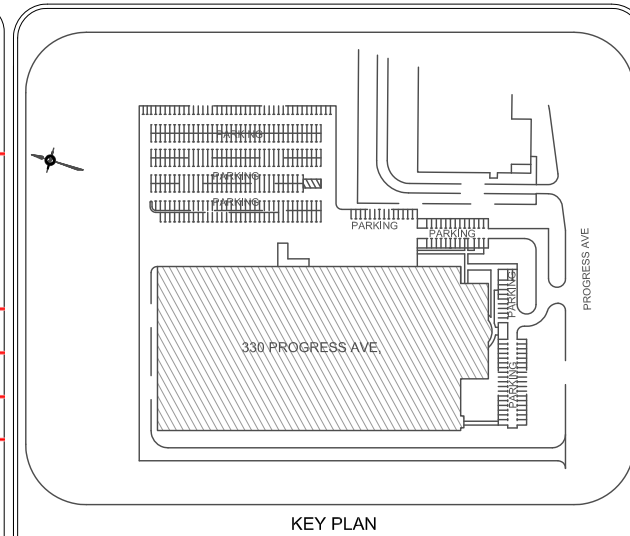
Project No.	Dwg.No.
Job No. 23-1059	M7



NOTE:
LOCATION OF THE HVAC ROOFTOP EQUIPMENT SHOWN ON THIS PLAN IS TRACED USING GOOGLE MAPS AND TO BE CONSIDERED AS APPROXIMATE
INSTALLER IS REQUIRED TO SITE COORDINATE
ALL EQUIPMENT (BOTH NEW AND THOSE NOTED AS EXISTING TO REMAIN TO BE RE-TAGGED) AS PER TAG NUMBERS NOTED ON THIS PLAN
UPDATE TAGGING DETAIL ON THE POWER FEEDER SERVING THE EQUIPMENT AT THE ELECTRICAL POWER PANEL
UPDATE TAGGING DETAIL ON THE BUILDING AUTOMATION GRAPHICS AND ALL EQUIPMENT CONTROLLERS TIED WITH THE EQUIPMENT

NEW INSTALLATION NOTES	
①	- NEW ROOFTOP HVAC UNIT MOUNTED ON NEW INSULATED 18" HIGH ROOF CURB. PROVIDE ADAPTER CURB IF TO SUIT EXISTING SUPPLY AND RETURN AIR DUCT OPENINGS - CONNECT POWER FEED FROM EXISTING LOCAL DISCONNECT WHICH WAS SERVING THE DEMOLISHED HVAC UNIT. HAVE ELECTRICIAN VERIFY SIZING OF EXISTING SERVICE TO SERVE THE POWER REQUIREMENTS OF THE NEW EQUIPMENT. ADVISE ENGINEER, IF SERVICE UPGRADE IS REQUIRED - INSTALL NEW CONTROL WIRING FROM BUILDING AUTOMATION CONTROLLER - REFER TO DRAWING M6 AND SPECIFICATIONS FOR REQUIREMENTS - CONNECT SUPPLY AND RETURN AIR DUCT TO EQUIPMENT - INSTALL NEW NATURAL GAS PIPING BETWEEN THE ISOLATION VALVE AND EQUIPMENT - PROVIDE U-TRAP ON CONDENSATE DRAIN - COMMISSION EQUIPMENT AND BALANCE EQUIPMENT SUPPLY AIR AND OUTDOOR AIRFLOW TO VALUES AS SCHEDULED
②	- NEW ROOFTOP HVAC UNIT MOUNTED ON NEW INSULATED 18" HIGH ROOF CURB. PROVIDE ADAPTER CURB IF TO SUIT EXISTING SUPPLY AND RETURN AIR DUCT OPENINGS - CONNECT POWER FEED FROM EXISTING LOCAL DISCONNECT WHICH WAS SERVING THE DEMOLISHED HVAC UNIT. HAVE ELECTRICIAN VERIFY SIZING OF EXISTING SERVICE TO SERVE THE POWER REQUIREMENTS OF THE NEW EQUIPMENT. ADVISE ENGINEER, IF SERVICE UPGRADE IS REQUIRED - INSTALL NEW CONTROL WIRING FROM NEW TEMPERATURE SENSOR AND BUILDING AUTOMATION CONTROLLER - REFER TO DRAWING M6 AND SPECIFICATIONS FOR REQUIREMENTS - CONNECT SUPPLY AND RETURN AIR DUCT TO EQUIPMENT - PROVIDE U-TRAP ON CONDENSATE DRAIN - COMMISSION EQUIPMENT AND BALANCE EQUIPMENT SUPPLY AIR AND OUTDOOR AIRFLOW TO VALUES AS SCHEDULED
③	- NEW ROOFTOP HVAC UNIT MOUNTED ON NEW INSULATED 18" HIGH ROOF CURB. PROVIDE ADAPTER CURB IF TO SUIT EXISTING SUPPLY AND RETURN AIR DUCT OPENINGS - CONNECT POWER FEED FROM EXISTING LOCAL DISCONNECT WHICH WAS SERVING THE DEMOLISHED HVAC UNIT. HAVE ELECTRICIAN VERIFY SIZING OF EXISTING SERVICE TO SERVE THE POWER REQUIREMENTS OF THE NEW EQUIPMENT. ADVISE ENGINEER, IF SERVICE UPGRADE IS REQUIRED - INSTALL NEW CONTROL WIRING FROM NEW TEMPERATURE SENSOR AND BUILDING AUTOMATION CONTROLLER - CONFIGURE OUTDOOR AIR DAMPER WITH CARBON MONOXIDE SENSOR TO PROVIDE DEMAND VENTILATION - REFER TO DRAWING M6 AND SPECIFICATIONS FOR REQUIREMENTS - CONNECT SUPPLY AND RETURN AIR DUCT TO EQUIPMENT - PROVIDE U-TRAP ON CONDENSATE DRAIN - COMMISSION EQUIPMENT AND BALANCE EQUIPMENT SUPPLY AIR AND OUTDOOR AIRFLOW TO VALUES AS SCHEDULED
④	- EXISTING EXHAUST FAN TO REMAIN. - REPLACE DRIVE MOTOR WITH SIMILAR SIZED INVERTER DUTY DRIVE MOTOR - REPLACE DRIVE SHEAVES AND BELT TO SUIT - INSTALL VFD AND WIRE. REFER TO CONTROL SCHEMATICS FOR DETAILS - COMMISSION EQUIPMENT AND CONFIGURE CONTROLS TO HAVE FAN TO MODULATE TO MAINTAIN SPACE PRESSURE BALANCE. REFER TO CONTROL SEQUENCE

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O.B.C.		
FIRE SERVICES		
O.B.C. (S)		



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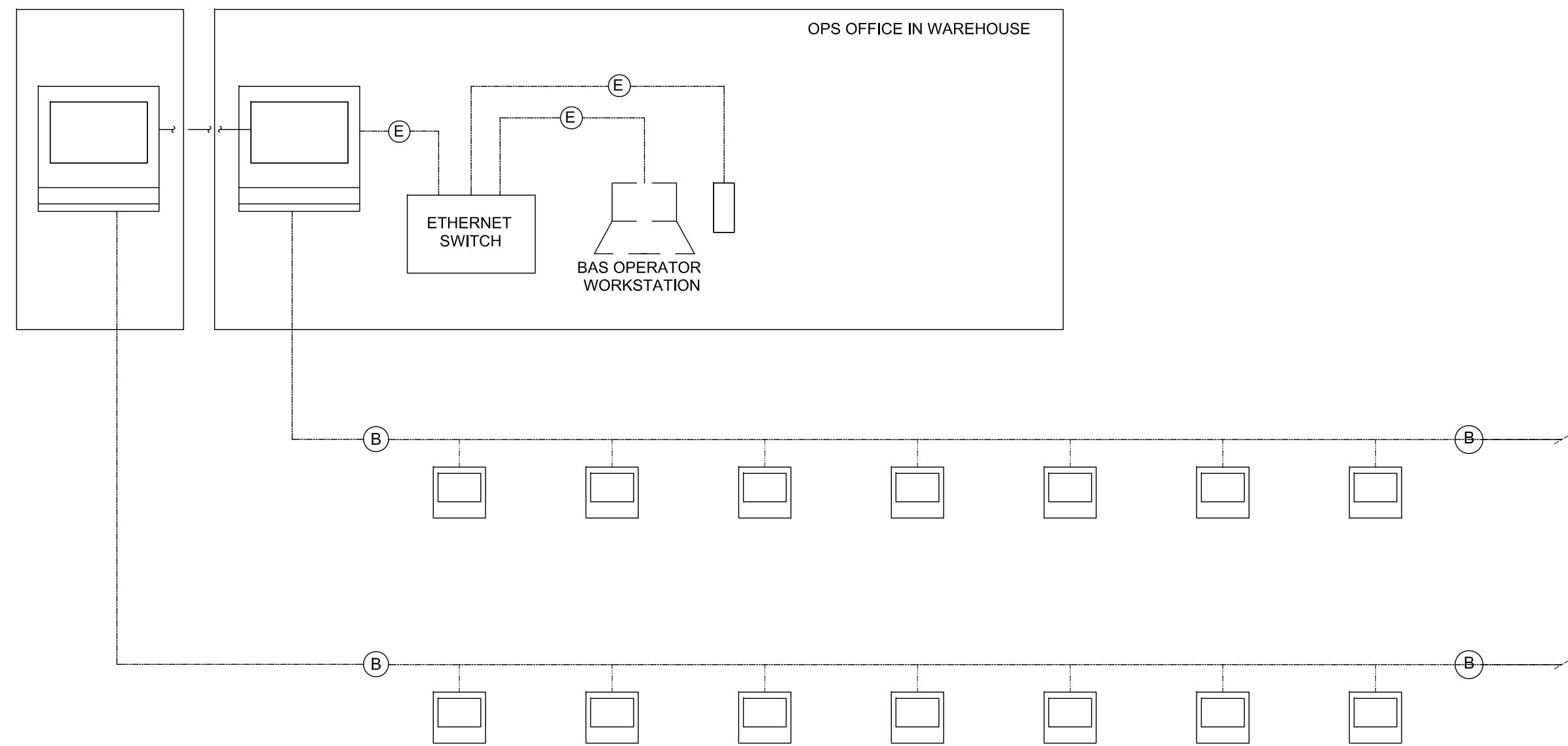
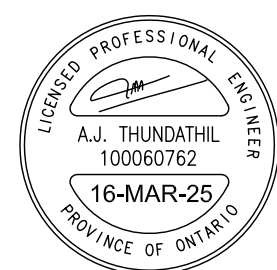
Project Address :
330 PROGRESS AVENUE
TORONTO, ON

Job Description :
UPGRADE OF BAS CONTROLS AND REPLACEMENT OF EXISTING ROOFTOP HVAC PACKAGED AIRCONDITIONERS

Drawing Title
BAS CONTROL SCHEMATICS
BAS ARCHITECTURE AND NOTES

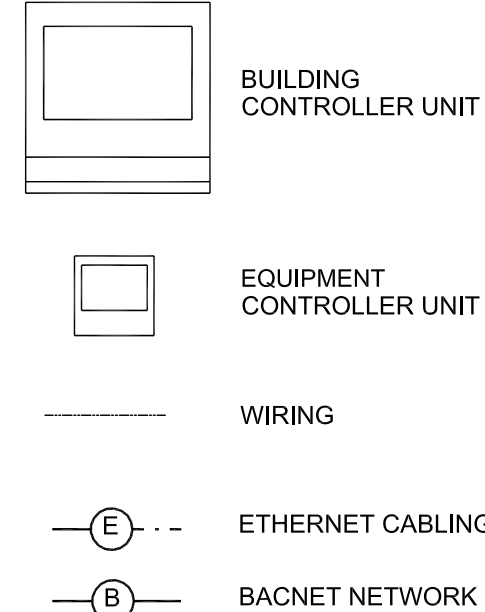
Design:	J.T.
DRAWN:	J.T.
Approv.:	J.T.
Scale:	NOT TO SCALE
Date:	DECEMBER 10, 2024

Project No.	Dwg.No.
Job No. 23-1059	M8



1 BAS NETWORK ARCHITECTURE SHOWN GRAPHICALLY
M8 NOT TO SCALE

CONTROL LEGEND:



BAS FRONT END WITH COMPLETE GRAPHICS
REFER TO SPECIFICATIONS AND CITY OF TORONTO BAS REQUIREMENTS
IN CASE OF CONFLICT, CITY OF TORONTO BAS REQUIREMENTS, OVERRIDE PROJECT SPECIFICATIONS

BAS ARCHITECTURE SHOWN GRAPHICALLY
VENDOR TO DESIGN AND NETWORK. PROVIDE DETAILED SHOP DRAWINGS COMPLETE WITH NETWORK ARCHITECTURE, SCHEMATICS FOR EACH PIECE OF EQUIPMENT, POINT LIST AND CONTROL SEQUENCE FOR REVIEW PRIOR TO ORDER OF EQUIPMENT / CONSTRUCTION

APPLICABLE FOR ALL CONTROL WORK

SCOPE OF WORK OF CONTROLS CONTRACTOR

SUPPLY AND INSTALL EQUIPMENT CONTROLLER (ECU) / BUILDING CONTROLLER (BCU) AND HARDWIRE TO CONTROL TERMINAL STRIP ON EQUIPMENT OEM PANEL TO PICK UP CONTROL AND MONITORING POINTS AS NOTED IN THE CONTROL SCHEMATICS AND PROJECT SPECIFICATIONS

SUPPLY AND INSTALL ALL REQUIRED FIELD DEVICES, IF NOT EXISTING AND CARRYOUT ALL FIELD CONTROL WIRING

SUPPLY AND INSTALL ALL POWER SUPPLY UNITS (FOR POWERING ANY FIELD DEVICES). ALL POWER SUPPLY UNITS SUPPLIED TO BE FUSED ON PRIMARY AND SECONDARY CIRCUITS

CARRYING OUT CONTROL WIRING, TERMINATIONS, CALIBRATION OF ALL FIELD DEVICES AND INTEGRATE THESE TO THE BASE BUILDING BAS

PROVIDE BAS GRAPHICS WITH REVISED TAGGING COMPLETE WITH MONITORING / CONTROL / TRENDDING AND ALARM POINTS FOR EXISTING AND NEW EQUIPMENT. REFER TO DRAWINGS AND SPECIFICATIONS FOR REQUIREMENTS.

PROVIDE CONTROLS VERIFICATION REPORT FOR EACH PIECE OF EQUIPMENT WHICH IS TIED INTO THE BASE BUILDING BAS

WORK WITH MECHANICAL CONTRACTOR, AND TESTING AND BALANCING CONTRACTOR AND CARRYOUT ANY ADJUSTMENTS IN CONTROLS AS NEEDED TO COMMISSION THE NEW HVAC EQUIPMENT AS PER DESIGN INTENT

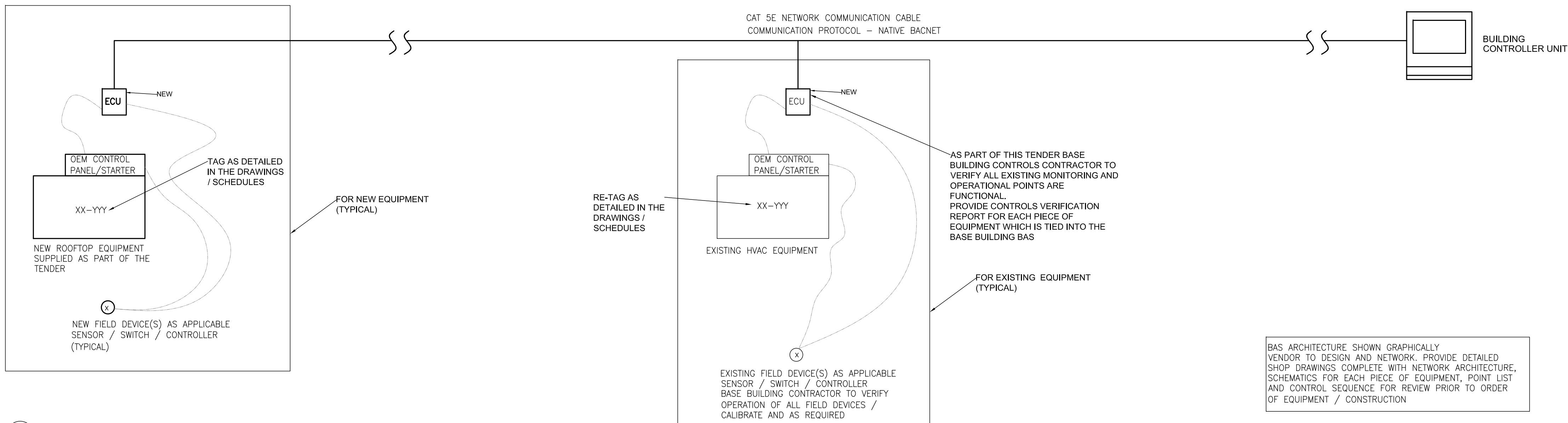
COMMUNICATION PROTOCOL BETWEEN ECU AND BASE BUILDING CONTROLLER TO BE NATIVE BACNET

SUPPLY AND INSTALL ANY FIELD SENSORS - IF NOT EXISTING, IF EXISTING FIELD SENSORS OTHER THAN SPACE TEMPERATURE SENSORS / THERMOSTATS ARE RE-USED - CARRY COST TO VERIFY / CALIBRATE / REPLACE AS REQUIRED

REPLACE ALL EXISTING SPACE TEMPERATURE SENSORS / THERMOSTATS WITH NEW

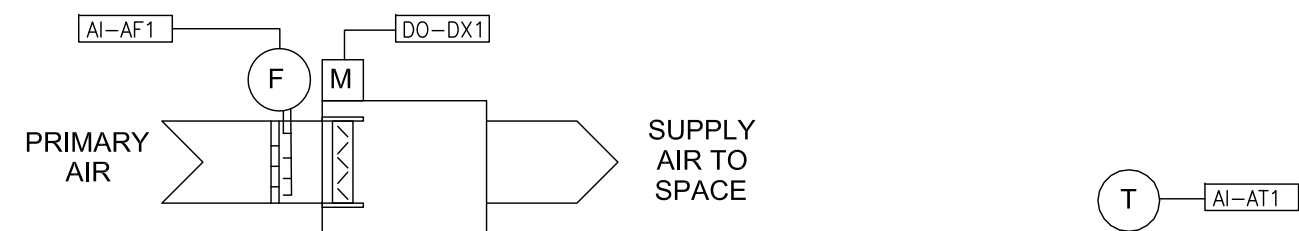
REFER TO DRAWING M1 FOR CONTROLS LEGEND

THE NOTES ABOVE TO BE CONSTRUED AS ADDITION TO REQUIREMENTS NOTED AS PART OF THE TENDER DOCUMENTATION:



2 BAS CONTROL ARCHITECTURE - SHOWN GRAPHICALLY
M8 NOT TO SCALE

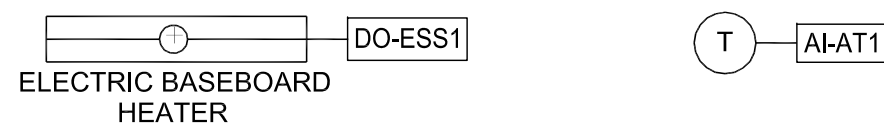
BAS ARCHITECTURE SHOWN GRAPHICALLY
VENDOR TO DESIGN AND NETWORK. PROVIDE DETAILED SHOP DRAWINGS COMPLETE WITH NETWORK ARCHITECTURE, SCHEMATICS FOR EACH PIECE OF EQUIPMENT, POINT LIST AND CONTROL SEQUENCE FOR REVIEW PRIOR TO ORDER OF EQUIPMENT / CONSTRUCTION



SEQUENCE OF OPERATION

GENERAL	THE VAV BOX PROVIDES COOLING AND VENTILATION TO THE SPACE IT IS SERVING. THE VAV BOX IS ENABLED WHEN THE ASSOCIATED AIR HANDLING UNIT IS TURNED ON.
SCHEDULING	TO BE DETERMINED BY THE OWNER.
AIRFLOW CONTROL	THE VAV CONTROLLER READS IN VELOCITY PRESSURE AND CONVERTS THIS INFORMATION TO AN AIRFLOW VALUE. THE CONTROLLER WILL MODULATE THE DAMPER TO MAINTAIN THE AIRFLOW VALUE AT SETPOINT. EXISTING MINIMUM AND MAXIMUM AIRFLOW SETPOINTS TO ACHIEVE MINIMUM AND MAXIMUM AIRFLOW AS MEASURED BY AIR BALANCER AS PART OF THE AIR AUDIT AT START OF PROJECT TO BE RETAINED.
TEMPERATURE CONTROL	THE VAV CONTROLLER WILL INCREASE/DECREASE THE AIRFLOW TO MAINTAIN THE SPACE TEMPERATURE AT SETPOINT. SPACE TEMPERATURE SET POINTS (ADJUSTABLE) IN WINTER: 22°C (ADJUSTABLE) IN OCCUPIED MODE, 16°C (ADJUSTABLE) IN UNOCCUPIED MODE IN SUMMER: 23°C (ADJUSTABLE) IN OCCUPIED MODE, 27°C (ADJUSTABLE) IN UNOCCUPIED MODE.
NETWORK VARIABLES	OCCUPIED/UNOCCUPIED MODE.
ALARMS	HIGH/ LOW SPACE TEMPERATURE (AT1) - 30 DEG C / 16 DEG C
MONITOR	SPACE TEMPERATURE (AT1) DAMPER POSITION (DX1) AIR FLOW (AF1)
TREND	AIR FLOW (AF1)

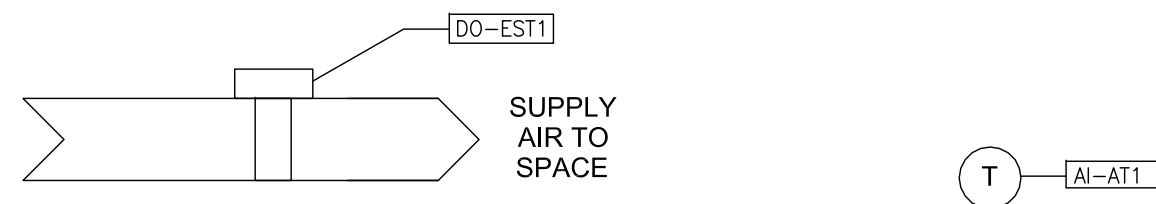
1
M9
TYPICAL VAV CONTROL SCHEMATIC AND CONTROL SEQUENCE
NOT TO SCALE



SEQUENCE OF OPERATION

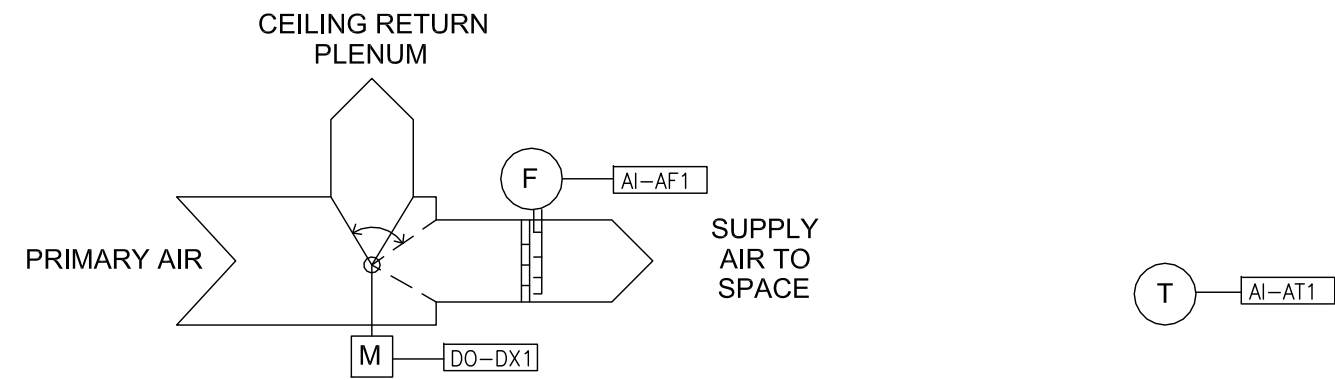
GENERAL	THE ELECTRIC BASEBOARD HEATER PROVIDES HEATING / SUPPLEMENTS SPACE HEATING. OPERATOR THROUGH BMS ENABLES THE ELECTRIC BASEBOARD HEATER (ESS).
SCHEDULING	TO BE DETERMINED BY THE OWNER.
TEMPERATURE CONTROL	THE ELECTRIC BASEBOARD HEATER WILL MAINTAIN THE SPACE TEMPERATURE AT SETPOINT. SPACE TEMPERATURE SET POINTS (ADJUSTABLE) 20°C (ADJUSTABLE) IN OCCUPIED MODE, 18°C (ADJUSTABLE) IN UNOCCUPIED MODE.
NETWORK VARIABLES	OCCUPIED/UNOCCUPIED MODE.
ALARMS	HIGH/ LOW SPACE TEMPERATURE (AT1) - 30 DEG C / 16 DEG C
MONITOR	SPACE TEMPERATURE (AT1) HEATER OPERATION
TREND	SPACE TEMPERATURE (AT1)

3
M9
ELECTRICAL BASEBOARD HEATER CONTROL SCHEMATIC AND CONTROL SEQUENCE
NOT TO SCALE



GENERAL	THE HEATER PROVIDES HEATING / SUPPLEMENTS SPACE HEATING. THE HEATER OPERATION CONTROLLED BY SPACE THERMOSTAT.
SCHEDULING	TO BE DETERMINED BY THE OWNER.
TEMPERATURE CONTROL	HEATER TO MAINTAIN THE SPACE TEMPERATURE AT SETPOINT. SPACE TEMPERATURE SET POINTS (PROGRAMMABLE) 20°C (ADJUSTABLE) IN OCCUPIED MODE, 18°C (ADJUSTABLE) IN UNOCCUPIED MODE.
OPERATING VARIABLES	OCCUPIED/UNOCCUPIED MODE.
ALARMS	LOW SPACE TEMPERATURE (AT1) - 16 DEG C
MONITOR	SPACE TEMPERATURE (AT1) HEATER OPERATION (EST1)

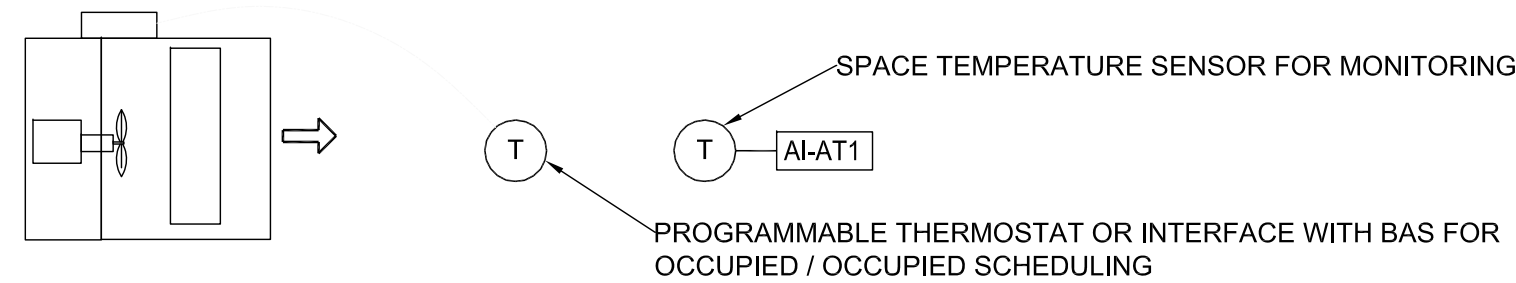
6
M9
ELECTRIC DUCT HEATER CONTROL SCHEMATIC AND CONTROL SEQUENCE
NOT TO SCALE



SEQUENCE OF OPERATION

GENERAL	THE BYPASS VAV BOX PROVIDES COOLING AND VENTILATION TO THE SPACE IT IS SERVING. THE BYPASS VAV BOX IS ENABLED WHEN THE ASSOCIATED AIR HANDLING UNIT IS TURNED ON.
SCHEDULING	TO BE DETERMINED BY THE OWNER.
AIRFLOW CONTROL	THE BYPASS VAV CONTROLLER READS IN VELOCITY PRESSURE AND CONVERTS THIS INFORMATION TO AN AIRFLOW VALUE. THE CONTROLLER WILL MODULATE THE DAMPER TO MAINTAIN THE AIRFLOW VALUE AT SETPOINT. EXISTING MINIMUM AND MAXIMUM AIRFLOW SETPOINTS TO ACHIEVE MINIMUM AND MAXIMUM AIRFLOW AS MEASURED BY AIR BALANCER AS PART OF THE AIR AUDIT AT START OF PROJECT TO BE RETAINED.
TEMPERATURE CONTROL	THE BYPASS VAV CONTROLLER WILL INCREASE/DECREASE THE AIRFLOW TO MAINTAIN THE SPACE TEMPERATURE AT SETPOINT. SPACE TEMPERATURE SET POINTS (ADJUSTABLE) IN WINTER: 22°C (ADJUSTABLE) IN OCCUPIED MODE, 16°C (ADJUSTABLE) IN UNOCCUPIED MODE IN SUMMER: 23°C (ADJUSTABLE) IN OCCUPIED MODE, 27°C (ADJUSTABLE) IN UNOCCUPIED MODE.
NETWORK VARIABLES	OCCUPIED/UNOCCUPIED MODE.
ALARMS	HIGH/ LOW SPACE TEMPERATURE (AT1) - 30 DEG C / 16 DEG C
MONITOR	SPACE TEMPERATURE (AT1) DAMPER POSITION (DX1) AIR FLOW (AF1)
TREND	AIR FLOW (AF1)

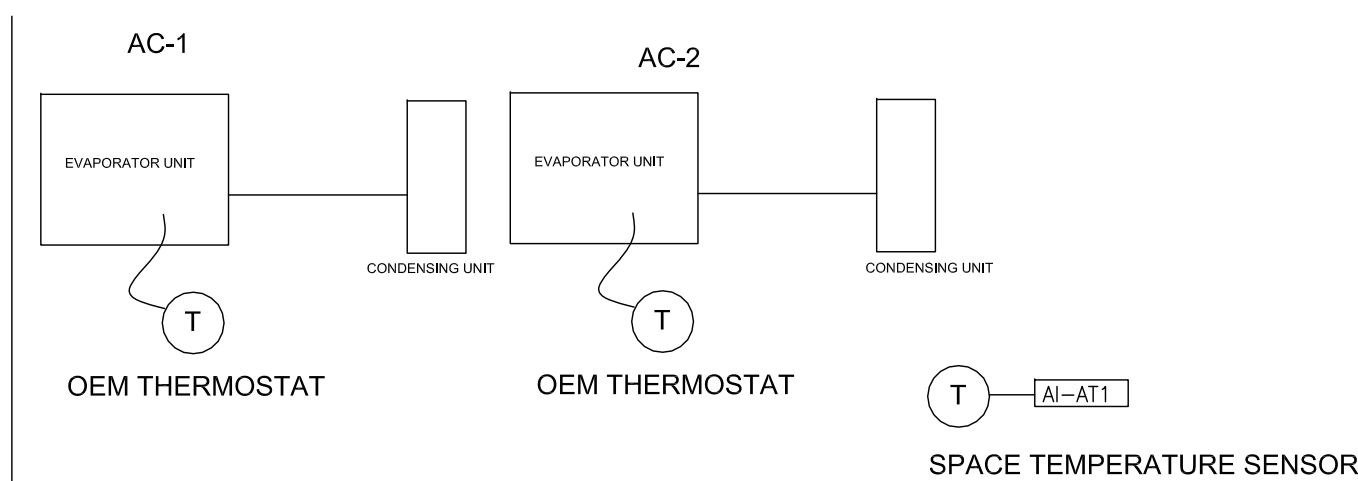
2
M9
TYPICAL BYPASS VAV CONTROL SCHEMATIC AND CONTROL SEQUENCE
NOT TO SCALE



SEQUENCE OF OPERATION

GENERAL	THE GAS FIRED UNIT HEATER PROVIDES HEATING / SUPPLEMENTS SPACE HEATING. THE GAS FIRED UNIT HEATER WORKS STANDALONE CONTROLLED VIDE ITS ASSOCIATED PROGRAMMABLE THERMOSTAT.
SCHEDULING	TO BE DETERMINED BY THE OWNER.
TEMPERATURE CONTROL	THE GAS FIRED UNIT HEATER TO MAINTAIN THE SPACE TEMPERATURE AT SETPOINT. SPACE TEMPERATURE SET POINTS (PROGRAMMABLE) 20°C (ADJUSTABLE) IN OCCUPIED MODE, 18°C (ADJUSTABLE) IN UNOCCUPIED MODE.
OPERATING VARIABLES	OCCUPIED/UNOCCUPIED MODE.
ALARMS	LOW SPACE TEMPERATURE (AT1) - 10 DEG C AFTER 15 MIN TIME DELAY
MONITOR	SPACE TEMPERATURE (AT1)

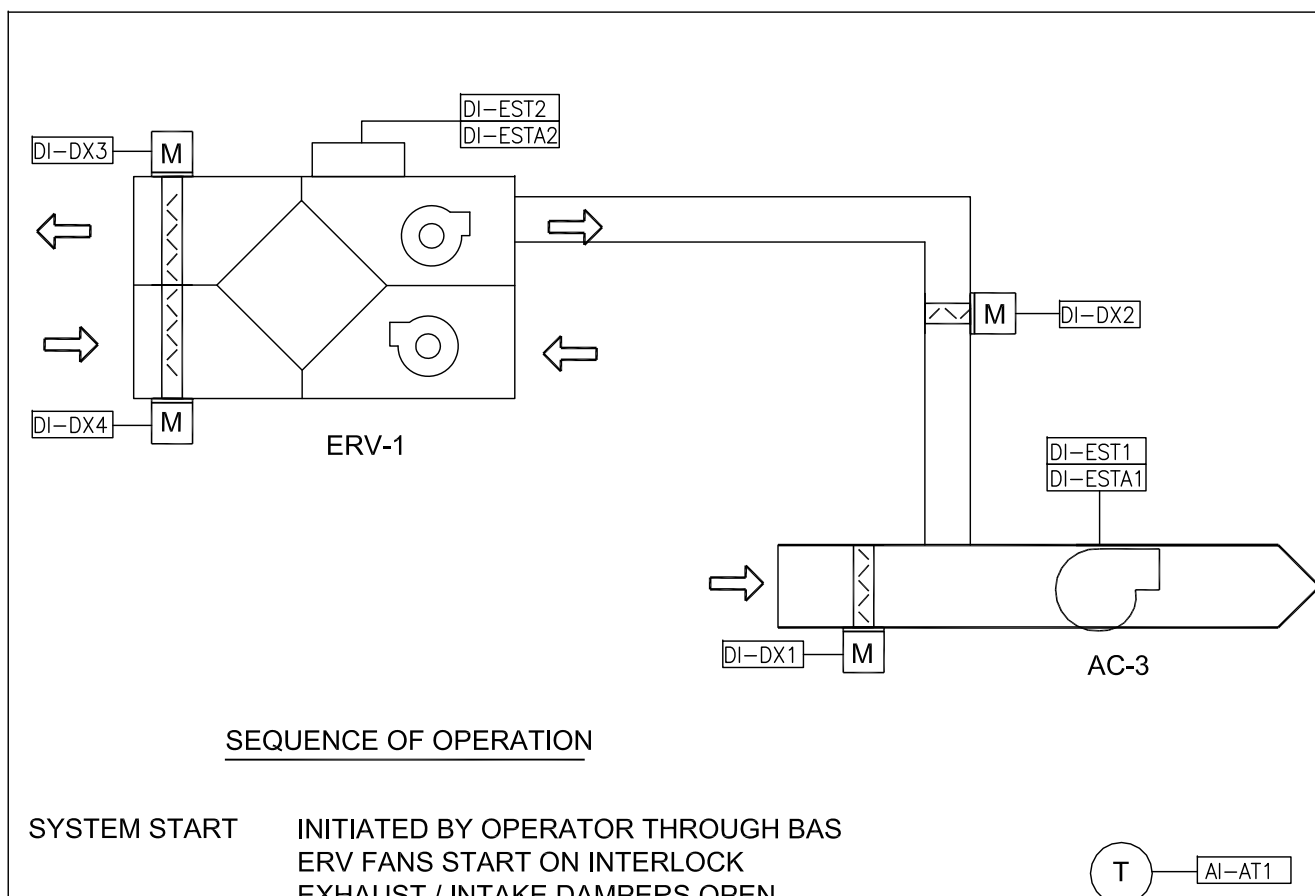
4
M9
GAS FIRED UNIT HEATER CONTROL SCHEMATIC AND CONTROL SEQUENCE
NOT TO SCALE



SEQUENCE OF OPERATION

SYSTEM START	INITIATED BY OPERATOR AT LOCAL VIDE EQUIPMENT CONTROLLER. EQUIPMENT OPERATES ON DEMAND VIDE OEM THERMOSTAT.
SYSTEM STOP	INITIATED BY OPERATOR AT LOCAL VIDE EQUIPMENT CONTROLLER.
SCHEDULING	CONTINUOUS.
SPACE TEMP. POINT	AS DEFINED BY USER.
ALARMS	HIGH SPACE TEMPERATURE (AT1) - 30 DEG C
MONITOR	SPACE TEMPERATURE (AT1)
TREND	SPACE TEMPERATURE (AT1)

7
M9
AC-1 / AC-2 CONTROL SCHEMATIC AND CONTROL SEQUENCE
NOT TO SCALE



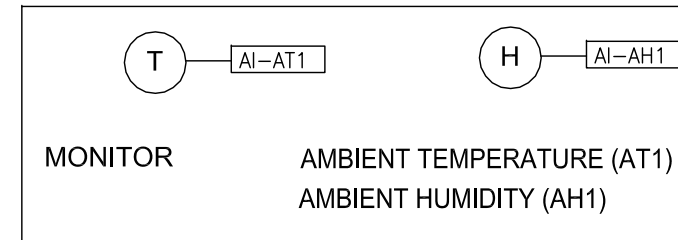
SEQUENCE OF OPERATION

SYSTEM START	INITIATED BY OPERATOR THROUGH BAS. ERV FANS START ON INTERLOCK. EXHAUST / INTAKE DAMPERS OPEN.
SYSTEM STOP	INITIATED BY OPERATOR THROUGH BAS. ERV FANS STOP ON INTERLOCK. EXHAUST / INTAKE DAMPERS CLOSE.
SCHEDULING	AS DETERMINED BY USER.
ALARM	AC-3 GENERAL FAULT ALARM TRIP (ESTA1). ERV GENERAL FAULT ALARM TRIP (ESTA2).
MONITOR	AC-3 FAN OPERATING STATUS (EST1). ERV OPERATING STATUS (EST2). DAMPER OPEN STATUS (DX-1/2/3/4). SPACE TEMPERATURE (AT1).
TREND	AC-3 RUN TIME (EST1).

5
M9
ERV-1 / AC-3 CONTROL SCHEMATIC AND CONTROL SEQUENCE
NOT TO SCALE

NO BAS CONTROL - WORKS ON ITS OEM CONTROL.
ALARMS: SET POINT TO BE DETERMINED BY USER.
MONITOR: SPACE TEMPERATURE (AT1).

8
M9
REFRIGERATOR- CONTROL SCHEMATIC AND CONTROL SEQUENCE
NOT TO SCALE

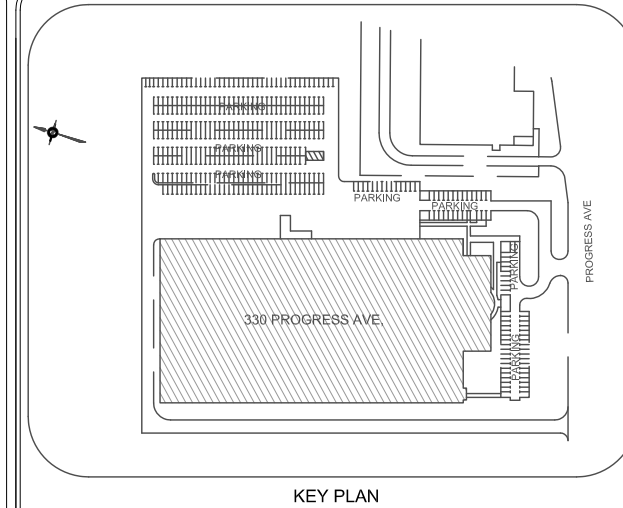


9
M9
AMBIENT CONDITION MEASUREMENT
NOT TO SCALE



25 159679 HVA 00

ZONING		
O.B.C.		
FIRE SERVICES		
O.B.C. (S)		



NO.	REVISION	DATE
5		
4		
3		
2	ISSUED FOR TENDER / PERMIT	MAR 16, 25
1	For Client Review - 60% DD	DEC 17, 24

NOTE:
CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME, REPORTING ANY DISCREPANCIES TO THE OWNER, BEFORE TENDER CLOSING.

LATEST APPROVED DRAWINGS ONLY TO BE USED FOR CONSTRUCTION.
PRINTS ARE NOT TO BE SCALED.



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Project Name :
TPS POLICE WAREHOUSE AND OFFICE BUILDING

Project Address :
330 PROGRESS AVENUE
TORONTO, ON

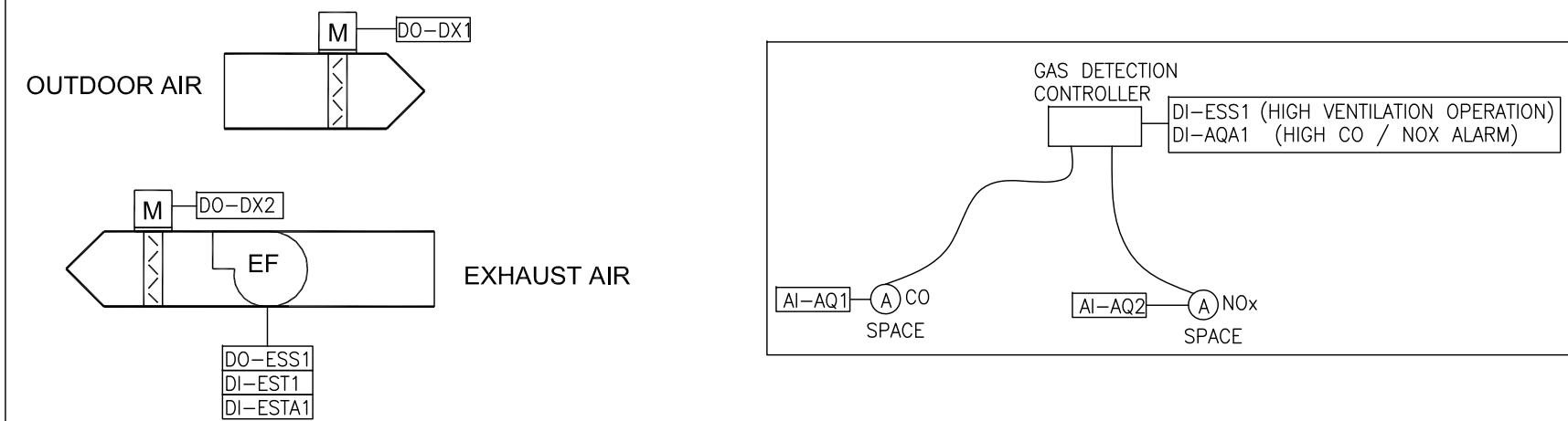
Job Description :
UPGRADE OF BAS CONTROLS AND REPLACEMENT OF EXISTING ROOFTOP HVAC PACKAGED AIRCONDITIONERS

Drawing Title:
BAS CONTROL SCHEMATICS AND CONTROL SEQUENCE - UNITARY EQUIPMENT

Design:	J.T.
DRAWN:	J.T.
Approv.:	J.T.
Scale:	NOT TO SCALE
Date:	DECEMBER 10, 2024

Project No.	Dwg.No.
Job No. 23-1059	M9

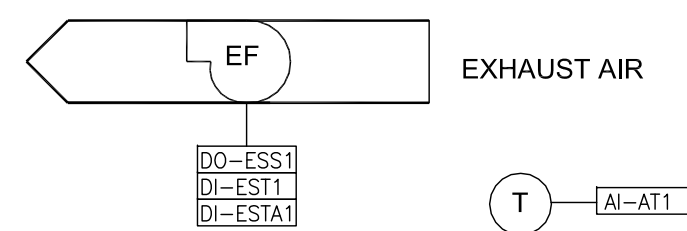




SEQUENCE OF OPERATION

GENERAL	INITIATED BY EXISTING GAS DETECTION CONTROLLER. WHEN ANY SENSOR DETECTS CO LEVEL ABOVE 25PPM OR NOX - 3PPM, OUTDOOR AND EXHAUST AIR DAMPER OPENS EXHAUST FAN FAN STARTS
ALARM	IF ANY SENSOR SENSES A CO LEVEL OF 100 PPM OR HIGHER OR NOX LEVEL 5 PPM OR HIGHER, THE GAS CONTROLLER WILL ACTIVATE AN ALARM SIGNAL WITH THE BUZZER SOUNDING FAN 'OVERLOAD TRIP' (ESTA1)
SYSTEM STOP	WHEN ANY SENSOR DETECTS CO LEVEL BELOW 15 PPM OR NOX - 1 PPM OR BELOW, FAN STOPS
OTHER REQUIREMENTS	AS PART OF THIS TENDER, THE EXISTING GAS DETECTION SENSORS TO BE CALIBRATED AND THE EXISTING GAS DETECTION CONTROLLER TO BE PROGRAMMED AS NOTED ABOVE. PROVIDE SENSOR CALIBRATION REPORT TO ENGINEER FOR REVIEW.
SCHEDULING	NIL
MONITOR	OUTDOOR AIR DAMPER POSITION (DX1) EXHAUST AIR DAMPER POSITION (DX2) FAN OPERATING STATUS (EST1) CO READING IN PPM (AQ1) NOx READING IN PPM (AQ2)

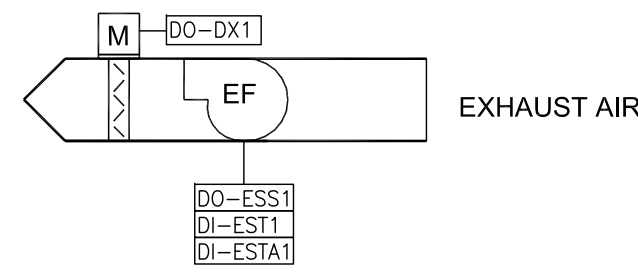
1
M12 CONTROL SCHEMATIC AND CONTROL SEQUENCE - EF-1 / 2 / 6 / 7 / 8 / 9 / 17
NOT TO SCALE



SEQUENCE OF OPERATION

SYSTEM START	OPERATION INITIATED BY OPERATOR THROUGH BAS
SYSTEM STOP	OPERATION INITIATED BY OPERATOR THROUGH BAS
SCHEDULING	TO BE DETERMINED BY USER
ALARM	FAN MOTOR OVERLOAD TRIP (ESTA)
MONITOR	FAN OPERATING STATUS (EST1)

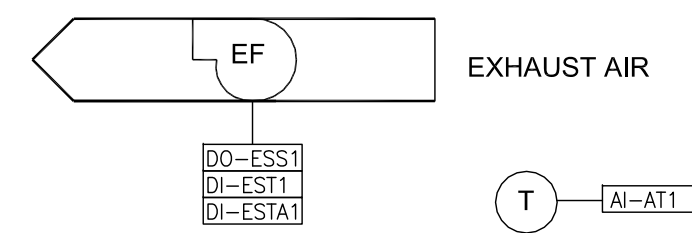
5
M12 CONTROL SCHEMATIC AND CONTROL SEQUENCE - EF- 11 / 12 / 16 / 18 / 20.
NOT TO SCALE



SEQUENCE OF OPERATION

SYSTEM START	INITIATED BY OPERATOR THROUGH BAS
SYSTEM STOP	INITIATED BY OPERATOR THROUGH BAS
SCHEDULING	CONTINUOUS OPERATION
ALARM	FAN MOTOR OVERLOAD TRIP (ESTA)
MONITOR	EXHAUST AIR DAMPER POSITION (DX1) FAN OPERATING STATUS (EST1)

2
M12 CONTROL SCHEMATIC AND CONTROL SEQUENCE - EF- 4 / 5
NOT TO SCALE



SEQUENCE OF OPERATION

SYSTEM START	OPERATION INITIATED BY OPERATOR THROUGH BAS FAN STARTS WHEN SPACE TEMPERATURE >30°C (ADJUSTABLE)
SYSTEM STOP	FAN STOPS WHEN SPACE TEMPERATURE < 28°C (ADJUSTABLE)
SCHEDULING	NIL
ALARM	FAN MOTOR OVERLOAD TRIP (ESTA) SPACE TEMPERATURE (AT1) > 40°C - ADJUSTABLE
MONITOR	SPACE TEMPERATURE (AT1) FAN OPERATING STATUS (EST1)
TREND	SPACE TEMPERATURE (AT1)

3
M12 CONTROL SCHEMATIC AND CONTROL SEQUENCE - EF- 10 / 13 / 14 / 15 / 19 / 21 / 22 / 23 / 24 / 25
NOT TO SCALE



USER ACTIVATED SWITCH

SEQUENCE OF OPERATION

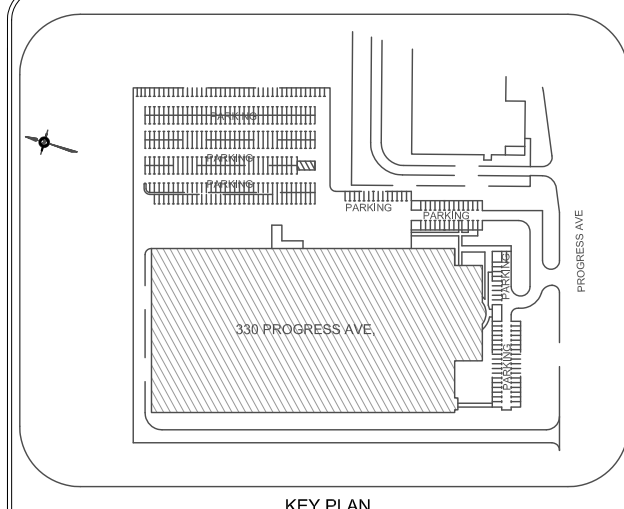
SYSTEM START	OPERATION INITIATED BY USER BY FLIPPING ON USER SWITCH FUME HOOD EXHAUST FAN STARTS AND ERV FANS START ON INTERLOCK EXHAUST / INTAKE DAMPER ON ERV OPENS AND EXHAUST DAMPER ON FUME HOOD EXHAUST OPENS
SYSTEM STOP	OPERATION INITIATED BY USER BY FLIPPING OFF USER SWITCH FUME HOOD EXHAUST FAN STOPS AND ERV FANS STOP ON INTERLOCK EXHAUST / INTAKE DAMPER ON ERV CLOSES AND EXHAUST DAMPER ON FUME HOOD EXHAUST CLOSES
SCHEDULING	NIL
ALARM	FUME HOOD FAN MOTOR OVERLOAD TRIP (ESTA1) ERV GENERAL FAULT ALARM TRIP (ESTA2)
MONITOR	FUME HOOD EXHAUST FAN OPERATING STATUS (EST1) ERV OPERATING STATUS (EST2) FUME HOOD EXHAUST DAMPER POSITION (DX1) ERV EXHAUST DAMPER POSITION (DX2) ERV INTAKE DAMPER POSITION (DX3) SPACE TEMPERATURE (AT1)
TREND	FUME EXHAUST RUN TIME (EST1)

4
M12 CONTROL SCHEMATIC AND CONTROL SEQUENCE - EF- 26 AND ERV-2
NOT TO SCALE



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ZONING	
O.B.C.	
FIRE SERVICES	
O.B.C. (S)	



NO.	REVISION	DATE
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2	ISSUED FOR TENDER / PERMIT	MAR 16, 25
1	For Client Review - 60% DD	DEC 17, 24

NOTE:
CONTRACTOR MUST CHECK AND
VERIFY ALL DIMENSIONS AND BE
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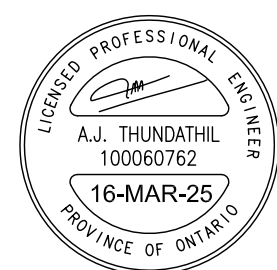
TABCON
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CONSULTING INC.
494 McNicoll Avenue, Suite # 201
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Tel. : (647) 974-7006
Web Site : www.tabcon.com

Project Name :
TPS POLICE WAREHOUSE AND OFFICE
BUILDING
Project Address :
330 PROGRESS AVENUE
TORONTO, ON
Job Description :
UPGRADE OF BAS CONTROLS AND
REPLACEMENT OF EXISTING ROOFTOP
HVAC PACKAGED AIRCONDITIONERS

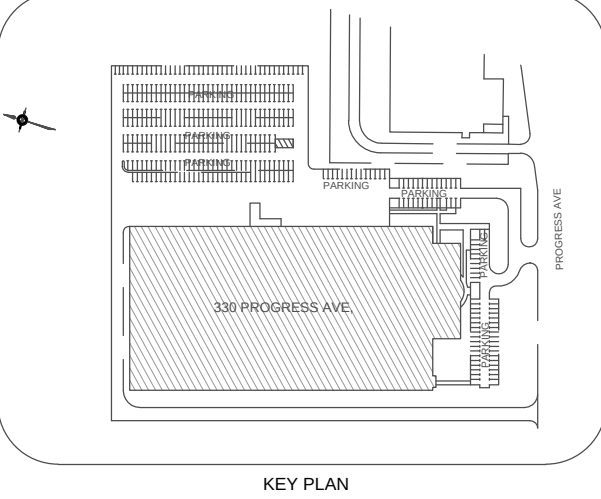
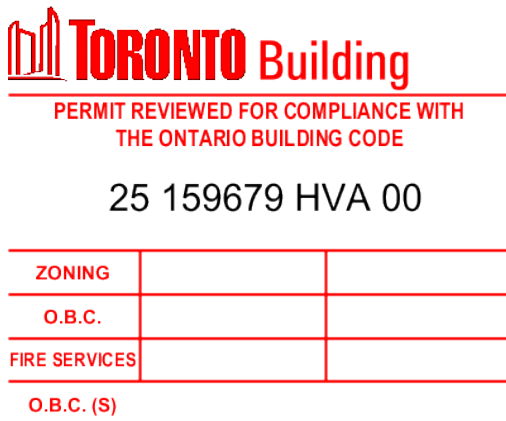
Drawing Title
BAS CONTROL SCHEMATICS AND CONTROL
SEQUENCE - EXHAUST FANS

Design:	J.T.
DRAWN:	J.T.
Approv.:	J.T.
Scale:	NOT TO SCALE
Date:	DECEMBER 10, 2024

Project No.	Dwg.No.
Job No. 23-1059	M12



HVAC ROOFTOP UNIT ZONING DETAILS + BAS SCOPE OF WORK + TESTING AND BALANCING (TAB) SCOPE OF WORK								
RTU TAG		STATUS	SERVING	EQUIPMENT DETAILS	ZONING DETAILS SERVED (DATA SHOWN BASED ON BEST ASSUMPTION)	TESTING AND BALANCING SCOPE OF WORK		BAS SCOPE OF WORK
REVISED	AS PER EXISTING BAS					AT START OF PROJECT	AT END OF CONSTRUCTION - PRIOR TO PUTTING INSTALLATION IN OPERATION	
RTU-1	RTU-1	NEW EQUIPMENT	VEHICLE STORAGE GARAGE	VARIABLE AIR VOLUME - DEMAND CONTROL VENTILATION	PERIMETER	NIL	MINIMUM AND MAXIMUM AIRFLOWS TO BE SET AS DETAILED IN DESIGN DRAWINGS - BOTH FOR RTU-1 AND EF-3. MEASURE SUPPLY AIRFLOW AT EACH TERMINAL FOR MAX AND MINIMUM AIRFLOW. BALANCE THE AIRFLOW WHILE OPERATING AT MINIMUM AIRFLOW	REFER TO CONTROL SCHEMATICS AND CONTROL SEQUENCE DETAILED IN DRAWINGS AND SPECIFICATIONS FOR EACH EQUIPMENT. VERIFY OPERATION AND PROVIDE CONTROLS VERIFICATION REPORT FOR EACH EQUIPMENT
RTU-2	RTU-2N	EXISTING EQUIPMENT TO REMAIN	AUTO SQUAD	SINGLE ZONE - PERIMETER ZONE - HVAC UNIT	PERIMETER	MEASURE SUPPLY AIRFLOW, OUTDOOR AIR FLOW, ESP AND BLOWER FLA	SET SUPPLY AIRFLOW AND OUTDOOR AIR INTAKE AS SCHEDULED AND MEASURE BLOWER FLA AND ESP	
RTU-3	RTU-3	EXISTING EQUIPMENT TO REMAIN	OPS OFFICE / KITCHEN		INTERIOR / PERIMETER ZONE - PERIMETER ZONE HEATING SUPPLEMENTED BY ELECTRICAL BASEBOARD HEATERS		SET SUPPLY AIRFLOW AND OUTDOOR AIR INTAKE AS SCHEDULED. PROPORTIONALLY ADJUST AIRFLOW AT EACH AIR TERMINAL AND MEASURE BLOWER FLA AND ESP	
RTU-4	RTU-2	EXISTING EQUIPMENT TO REMAIN	DRUG ROOM		PERIMETER		SET SUPPLY AIRFLOW AND OUTDOOR AIR INTAKE AS SCHEDULED AND MEASURE BLOWER FLA AND ESP	
RTU-5	AC-21	NEW EQUIPMENT	WAREHOUSE OFFICES		INTERIOR		INTERIOR / PERIMETER ZONE - PERIMETER ZONE HEATING SUPPLEMENTED BY ELECTRICAL BASEBOARD HEATERS	
RTU-6	AC-24	NEW EQUIPMENT	DRUG ROOM		INTERIOR			
RTU-7	RTU-4	EXISTING EQUIPMENT TO REMAIN	DRUG OFFICES	ZONE CONTROLS WITH 5 VAV BOXES + VAV HVAC UNIT	INTERIOR	MEASURE SUPPLY AIRFLOW AT EACH AIR TERMINAL, TOTAL SUPPLY AIR FLOW, OUTDOOR AIR FLOW, ESP AND BLOWER FLA - IDENTIFY AREAS WHICH THESE VAV'S SERVE AND AIRFLOWS AND MEASURE AT MINIMUM AND FULL OPEN SETTING	SET SUPPLY AIRFLOW AND OUTDOOR AIR INTAKE AS SCHEDULED. ADJUST AIRFLOW AT EACH VAV AND AIR TERMINAL AS PER VALUES PROVIDED BY ENGINEER AFTER REVIEW OF INITIAL AIR AUDIT. MEASURE BLOWER FLA AND ESP	
RTU-8	AC-26	NEW EQUIPMENT	WAREHOUSE OFFICES	SINGLE ZONE - CONSTANT VOLUME- HVAC UNIT	INTERIOR	MEASURE SUPPLY AIRFLOW, OUTDOOR AIR FLOW, ESP AND BLOWER FLA	SET SUPPLY AIRFLOW AND OUTDOOR AIR INTAKE AS SCHEDULED, PROPORTIONALLY ADJUST AIRFLOW AT EACH AIR TERMINAL AND MEASURE BLOWER FLA AND ESP	
RTU-9	RTU-5	EXISTING EQUIPMENT TO REMAIN	GUN STORAGE		INTERIOR			
RTU-10	RTU-6	EXISTING EQUIPMENT TO REMAIN	GUN STORAGE		PERIMETER			
RTU-11	RTU-7	EXISTING EQUIPMENT TO REMAIN	GUN OFFICES	SINGLE ZONE - CONSTANT VOLUME- HVAC UNIT + 2 VAV BOXES FOR LOCAL ZONE CONTROL	INTERIOR / PERIMETER ZONE - PERIMETER ZONE HEATING SUPPLEMENTED BY ELECTRICAL BASEBOARD HEATERS + ZONE CONTROLS	MEASURE SUPPLY AIRFLOW AT EACH AIR TERMINAL, TOTAL SUPPLY AIR FLOW, OUTDOOR AIR FLOW, ESP AND BLOWER FLA - IDENTIFY AREAS WHICH THESE VAV'S SERVE AND AIRFLOWS AND MEASURE AT MINIMUM AND FULL OPEN SETTING	SET SUPPLY AIRFLOW AND OUTDOOR AIR INTAKE AS SCHEDULED. ADJUST AIRFLOW AT EACH VAV AND AIR TERMINAL AS PER VALUES PROVIDED BY ENGINEER AFTER REVIEW OF INITIAL AIR AUDIT. MEASURE BLOWER FLA AND ESP	
RTU-12	AC-1	EXISTING EQUIPMENT TO REMAIN	LUNCH ROOM + CORRIDOR	SINGLE ZONE - CONSTANT VOLUME- HVAC UNIT + 1 VAV BOX FOR LOCAL ZONE CONTROL	INTERIOR	MEASURE SUPPLY AIRFLOW AT EACH AIR TERMINAL, TOTAL SUPPLY AIR FLOW, OUTDOOR AIR FLOW, ESP AND BLOWER FLA - IDENTIFY AREAS WHICH THESE VAV'S SERVE AND AIRFLOWS AND MEASURE AT MINIMUM AND FULL OPEN SETTING	SET SUPPLY AIRFLOW AND OUTDOOR AIR INTAKE AS SCHEDULED. ADJUST AIRFLOW AT EACH VAV AND AIR TERMINAL AS PER VALUES PROVIDED BY ENGINEER AFTER REVIEW OF INITIAL AIR AUDIT. MEASURE BLOWER FLA AND ESP	
RTU-13	AC-3	EXISTING EQUIPMENT TO REMAIN	2ND FLOOR - PARKING ENFORCEMENT - EAST OFFICES	SINGLE ZONE - CONSTANT VOLUME- HVAC UNIT	N/A			
RTU-14	AC-4	EXISTING EQUIPMENT TO REMAIN	FRONT OFFICE - PROPERTY		PERIMETER			
RTU-15	AC-5	EXISTING EQUIPMENT TO REMAIN	FRONT DESK - UNIT COMMANDER		PERIMETER + INTERIOR			
RTU-16	AC-6	EXISTING EQUIPMENT TO REMAIN	PARKING ENFORCEMENT OFFICES - 2ND FLOOR		N/A			
RTU-17	AC-2	EXISTING EQUIPMENT TO REMAIN	PARKING ENFORCEMENT COMMANDER - 2ND FLOOR		N/A			
RTU-18	RTU-1N	EXISTING EQUIPMENT TO REMAIN	2ND FLOOR - EAST OFFICES		PERIMETER			
RTU-19	AC-7	EXISTING EQUIPMENT TO REMAIN	GROUND FLOOR - EMPO OFFICES		N/A			
RTU-20	AC-8	EXISTING EQUIPMENT TO REMAIN	2ND FLOOR PARKING ENFORCEMENT - SUPERVISOR OFFICES		INTERIOR			
RTU-21	AC-9	EXISTING EQUIPMENT TO REMAIN	EMPO OFFICES / BOSS - GROUND FLOOR		PERIMETER			
RTU-22	AC-10	EXISTING EQUIPMENT TO REMAIN	2ND FLOOR PARKING ENFORCEMENT - OFFICES		PERIMETER			
RTU-23	AC-11	EXISTING EQUIPMENT TO REMAIN	GROUND FLOOR		INTERIOR			
RTU-24	RTU-106	EXISTING EQUIPMENT TO REMAIN	2ND FLOOR PARKING ENFORCEMENT - FRONT DESK		INTERIOR			
RTU-25	RTU-8	EXISTING EQUIPMENT TO REMAIN	GROUND FLOOR - GYM		INTERIOR			
RTU-26	RTU-101	EXISTING EQUIPMENT TO REMAIN	MEN / WOMEN'S CHANGE ROOM	INTERIOR				
RTU-27	RTU-105	EXISTING EQUIPMENT TO REMAIN	2ND FLOOR PARKING ENFORCEMENT - OFFICES	INTERIOR				
RTU-28	AC-13	NEW EQUIPMENT	PSRT OFFICE	CONSTANT VOLUME RTU WITH 10 BYPASS VAV BOXES	INTERIOR	MEASURE SUPPLY AIRFLOW AT EACH AIR TERMINAL, TOTAL SUPPLY AIR FLOW, OUTDOOR AIR FLOW, ESP AND BLOWER FLA - IDENTIFY AREAS WHICH THESE VAV'S SERVE AND AIRFLOWS AND MEASURE AT MINIMUM AND FULL OPEN SETTING	SET SUPPLY AIRFLOW AND OUTDOOR AIR INTAKE AS SCHEDULED. ADJUST AIRFLOW AT EACH VAV AND AIR TERMINAL AS PER VALUES PROVIDED BY ENGINEER AFTER REVIEW OF INITIAL AIR AUDIT. MEASURE BLOWER FLA AND ESP	
RTU-29	RTU-102	EXISTING EQUIPMENT TO REMAIN	STORAGE AREA - 2ND FLOOR	SINGLE ZONE - CONSTANT VOLUME- HVAC UNIT	INTERIOR	MEASURE SUPPLY AIRFLOW AT EACH AIR TERMINAL, TOTAL SUPPLY AIRFLOW, PROVIDE A SKETCH IDENTIFYING AREAS SERVED BY EACH EQUIPMENT, OUTDOOR AIR FLOW, ESP AND BLOWER FLA .	SET SUPPLY AIRFLOW AND OUTDOOR AIR INTAKE AS SCHEDULED, ADJUST AIRFLOW AT AIR TERMINAL AS PER VALUES PROVIDED BY ENGINEER AFTER REVIEW OF INITIAL AIR AUDIT. MEASURE BLOWER FLA AND ESP	
RTU-30	RTU-103	EXISTING EQUIPMENT TO REMAIN	PARADE ROOM - 2ND FLOOR		PERIMETER			
RTU-31	RTU-104	EXISTING EQUIPMENT TO REMAIN	2ND FLOOR PARKING ENFORCEMENT - SUPERVISORS		PERIMETER			
RTU-32	AC-14	NEW EQUIPMENT	WAREHOUSE	SINGLE ZONE - CONSTANT VOLUME- HVAC UNIT	PERIMETER / INTERIOR	NIL	SET SUPPLY AIRFLOW AND OUTDOOR AIR INTAKE AS SCHEDULED AND MEASURE BLOWER FLA AND ESP. BALANCE ALL AIR TERMINALS EQUALLY AND PROVIDE AIRFLOW MEASUREMENT DETAILS	
RTU-33	AC-15	NEW EQUIPMENT	WAREHOUSE					
RTU-34	AC-25	NEW EQUIPMENT	WAREHOUSE					
RTU-35	AC-16	NEW EQUIPMENT	WAREHOUSE					
RTU-36	AC-17	NEW EQUIPMENT	WAREHOUSE					
RTU-38	AC-19	NEW EQUIPMENT	WAREHOUSE					
EQUIPMENT IDENTIFICATION ON GRAPHICS TO BE REVISED WITH TAGS AS NOTED. THIS INCLUDES EQUIPMENTS NOTED AS NEW AND EXISTING TO REMAIN								
ABOVE DATA HAS BEEN CONSOLIDATED USING INFORMATION GAIN THROUGH A WALK THROUGH SITE SURVEY + DATA FROM BAS SCREENSHOTS AND USING BEST JUDGEMENT. BAS / TAB CONTRACTOR TO REVIEW AND CONFIRM. ADVISE ENGINEER IN CASE OF ANY MAJOR DEVIATIONS								



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2	ISSUED FOR TENDER / PERMIT	MAR 16, 25
1	For Client Review - 60% DD	DEC 17,24
NO.	REVISION	DATE

NOTE:

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME, REPORTING ANY DISCREPANCIES TO THE OWNER, BEFORE TENDER CLOSING.

LATEST APPROVED DRAWINGS ONLY TO BE USED FOR CONSTRUCTION.

PRINTS ARE NOT TO BE SCALED.



MECHANICAL ENGINEER

 **A & T CONSULTANTS**
ENGINEERS AND PROJECT MANAGERS
7 INVITATIONAL ROAD
BRAMPTON, ON L6P 2H1
PH: 416-841-6869
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Project Name :
TPS POLICE WAREHOUSE AND OFFICE BUILDING

Project Address :
330 PROGRESS AVENUE
TORONTO, ON

Job Description :
UPGRADE OF BAS CONTROLS AND
REPLACEMENT OF EXISTING ROOFTOP
HVAC PACKAGED AIRCONDITIONERS

Drawing Title
HVAC ROOFTOP UNIT ZONING DETAILS
+ BAS SCOPE OF WORK + TESTING AND
BALANCING SCOPE OF WORK

Design:	J.T.
DRAWN:	J.T.
Approv.:	J.T.
Scale:	NOT TO SCALE
Date:	DECEMBER 10, 2024

Project No.	Dwg.No.
Job No. 23-1059	M13



EXHAUST FANS AND UNITARY HVAC UNITS						
AS PER EXISTING BAS	RE-TAG	STATUS	SERVING	OPERATION	CONTROL SCHEMATICS AND CONTROL SEQUENCE REFERENCE	
EF-1	EF-1	EXISTING EQUIPMENT TO REMAIN UNLESS OTHERWISE NOTED	TRANSPORT BAY	DEMAND VENTILATION - CO / NOX SENSOR	DETAIL -1 - DRAWING M12	
EF-2	EF-2		TRANSPORT BAY	OPERATOR CONTROLLED VIDE BMS	DETAIL -1 - DRAWING M12	
EF-3	EF-3		PARKING GARAGE	DEMAND VENTILATION - CO / NOX SENSOR	DETAIL -1 - DRAWING M10	
EF-4	EF-4		DRUG ROOM	OPERATOR CONTROLLED VIDE BMS	DETAIL -2 - DRAWING M12	
EF-5	EF-5		DRUG ROOM	OPERATOR CONTROLLED VIDE BMS	DETAIL -2 - DRAWING M12	
EF-6	EF-6		LOADING DOCK	DEMAND VENTILATION - CO / NOX SENSOR	DETAIL -1 - DRAWING M12	
EF-7	EF-7		LOADING DOCK	DEMAND VENTILATION - CO / NOX SENSOR	DETAIL -1 - DRAWING M12	
EF-8	EF-8		LOADING DOCK	DEMAND VENTILATION - CO / NOX SENSOR	DETAIL -1 - DRAWING M12	
EF-9	EF-9		LOADING DOCK	DEMAND VENTILATION - CO / NOX SENSOR	DETAIL -1 - DRAWING M12	
EF-10	EF-10		MAIN ELECTRICAL ROOM	CONTROLLED BY REVERSE THERMOSTAT SENSOR	DETAIL -3 - DRAWING M12	
EF-11	EF-11		CHARGING AREA	OPERATOR CONTROLLED VIDE BMS	DETAIL -5 - DRAWING M12	
EF-101	EF-12		MEN'S WASHROOM	OPERATOR CONTROLLED VIDE BMS	DETAIL -5 - DRAWING M12	
EF-102	EF-13		ROOM 2060	CONTROLLED BY REVERSE THEMOSTAT SENSOR	DETAIL -3 - DRAWING M12	
EF-103	EF-14		ROOM 2047	CONTROLLED BY REVERSE THEMOSTAT SENSOR	DETAIL -3 - DRAWING M12	
EF-104	EF-15		ELEVATOR MACHINE ROOM - ROOM 1009	CONTROLLED BY REVERSE THEMOSTAT SENSOR	DETAIL -3 - DRAWING M12	
EF-105	EF-16		VEHICLE IMPOUND WASHROOM	OPERATOR CONTROLLED VIDE BMS	DETAIL -5 - DRAWING M12	
EF-106	EF-17		VEHICLE IMPOUND	DEMAND VENTILATION - CO SENSOR	DETAIL -1 - DRAWING M12	
EF-1	EF-18		AMMUNITION STORAGE	OPERATOR CONTROLLED VIDE BMS	DETAIL -5 - DRAWING M12	
EF-2	EF-19		ROOM 2018	CONTROLLED BY REVERSE THEMOSTAT SENSOR	DETAIL -3 - DRAWING M12	
EF-3	EF-20		ROOM 2041	OPERATOR CONTROLLED VIDE BMS	DETAIL -5 - DRAWING M12	
EF-4	EF-21		ROOM 2097	CONTROLLED BY REVERSE THEMOSTAT SENSOR	DETAIL -3 - DRAWING M12	
EF-5	EF-22		ROOM 2014	CONTROLLED BY REVERSE THEMOSTAT SENSOR	DETAIL -3 - DRAWING M12	
EF-6	EF-23		ROOM 2004 / 2005	CONTROLLED BY REVERSE THEMOSTAT SENSOR	DETAIL -3 - DRAWING M12	
EF-7	EF-24		ROOM 2012	CONTROLLED BY REVERSE THEMOSTAT SENSOR	DETAIL -3 - DRAWING M12	
EF-8	EF-25		ROOM 2018	OPERATOR CONTROLLED VIDE BMS	DETAIL -3 - DRAWING M12	
EF-12	EF-26		FUME HOOD EXHAUST FAN AND ERV-2	USER CONTROLLED	DETAIL -4 - DRAWING M12	
UNITARY AC AND ERV-1	AC-3 / ERV-1			N/A	SPACE TEMPERATURE SENSOR	DETAIL-5 - DRAWING M9
SPLIT AC-1	AC-1			N/A	CONTROLLED BY OEM SPACE THERMOSTAT	DETAIL -7 - DRAWING M9
SPLIT AC-1	AC-2			N/A	CONTROLLED BY OEM SPACE THERMOSTAT	
ALL UNIT HEATERS			MULTIPLE LOCATIONS	CONTROLLED BY SPACE THERMOSTAT	DETAIL -4 - DRAWING M9	
ELE CTRIC BASEBOARD HEATERS			MULTIPLE LOCATIONS	CONTROLLED BY SPACE THERMOSTAT	DETAIL -3 - DRAWING M9	
ELECTRIC DUCT HEATERS			MULTIPLE LOCATIONS	CONTROLLED BY SPACE THERMOSTAT	DETAIL -6 - DRAWING M9	
REFRIGERATORS			WAREHOUSE	OEM CONTROL	DETAIL -8 - DRAWING M9	

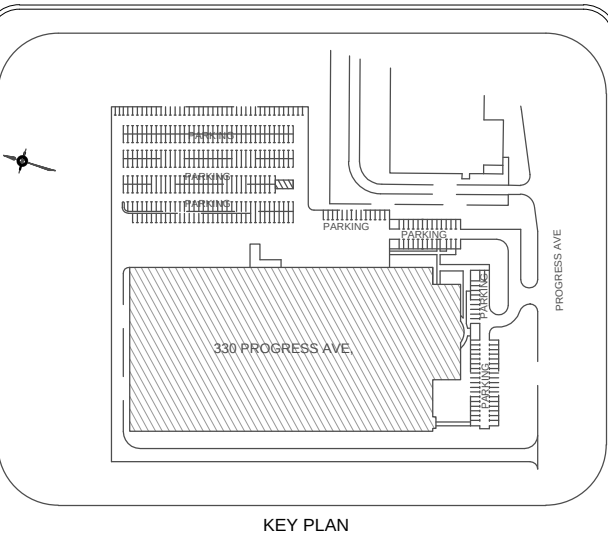
AS PART OF THIS PROJECT, RE-TAG ALL FANS AT EQUIPMENT / POWER FEED AT OUTGOING FEEDER AT ELECTRICAL PANEL AND BAS GRAPHICS AS NOTED . REFER TO CONTROL SCHEMATICS AND CONTROL SEQUENCE DETAILED IN DRAWINGS AND SPECIFICATIONS FOR EACH EQUIPMENT. VERIFY OPERATION AND PROVIDE CONTROLS VERIFICATION REPORT FOR EACH EQUIPMENT



PERMIT REVIEWED FOR COMPLIANCE WITH
THE ONTARIO BUILDING CODE

25 159679 HVA 00

ZONING		
O.B.C.		
FIRE SERVICES		
O.B.C. (S)		



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2	ISSUED FOR TENDER / PERMIT	MAR 16, 25
1	For Client Review - 60% DD	DEC 17,24
NO.	REVISION	DATE

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TABCON
CONSULTING INC.
494 McNicoll Avenue, Suite # 201
Toronto, Ontario, M2H 2E1
Tel. : (647) 974-7006
Web Site : www.tabcon.com

Project Name :
TPS POLICE WAREHOUSE AND OFFICE BUILDING

Project Address :
330 PROGRESS AVENUE
TORONTO, ON

Job Description :
UPGRADE OF BAS CONTROLS AND REPLACEMENT OF EXISTING ROOFTOP HVAC PACKAGED AIRCONDITIONERS

Drawing Title
EXHAUST FANS AND UNITARY HVAC UNITS - BAS SCOPE OF WORK

Design:	J.T.
DRAWN:	J.T.
Approv.:	J.T.
Scale:	NOT TO SCALE
Date:	DECEMBER 10, 2024

Project No.	Dwg.No.
Job No. 23-1059	M14

