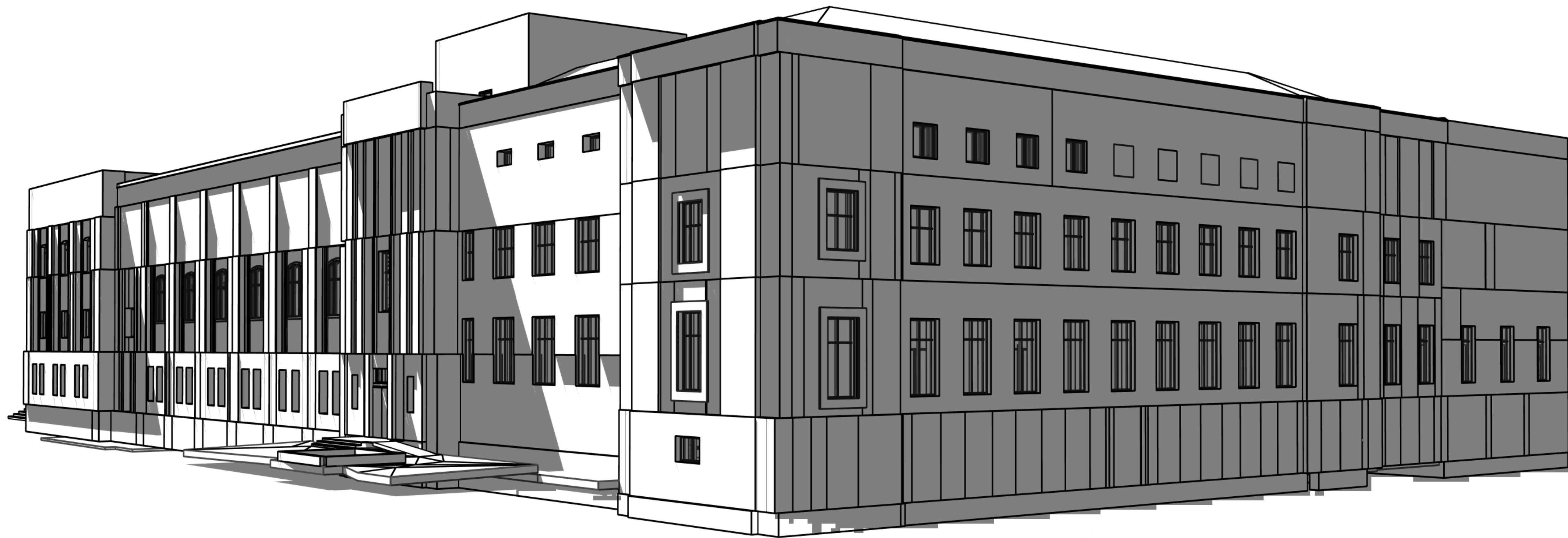
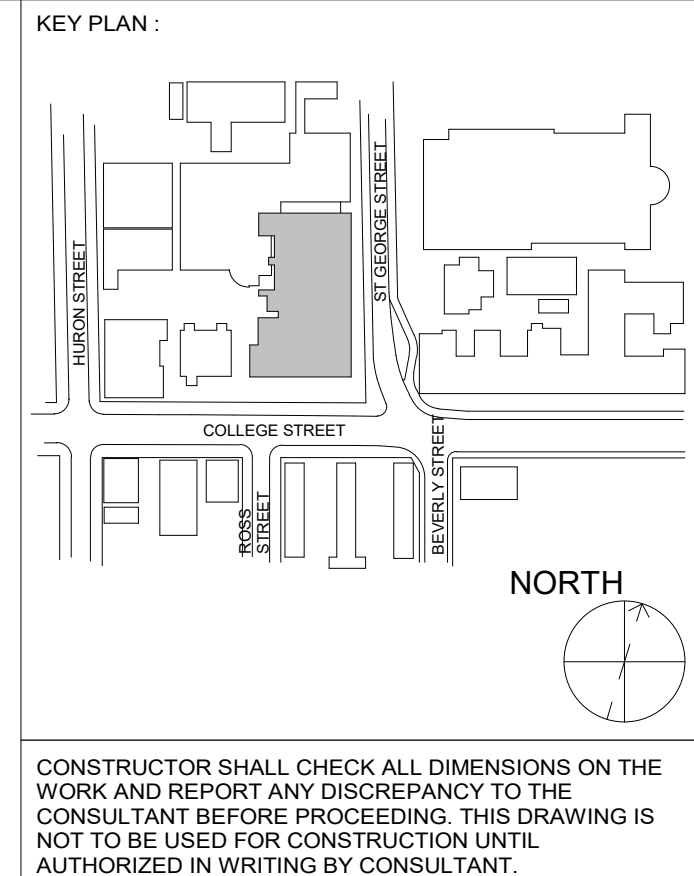


HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST, TORONTO, ON M5T 3A1



SHEET NO.	SHEET NAME	SCALE
TM-0.0	COVER & MECHANICAL DRAWING LIST	N.T.S.
TM-0.1	MECHANICAL LEGENDS	N.T.S.
TM-0.2	MECHANICAL STANDARD DETAILS	N.T.S.
TM-0.3	KITCHEN HOOD DETAILS	N.T.S.
TM-0.4	KITCHEN HOOD DETAILS	N.T.S.
TM-0.5	KITCHEN ECOLOGY UNIT DETAILS	N.T.S.
TM-0.6	KITCHEN ECOLOGY UNIT DETAILS	N.T.S.
TM-0.7	KITCHEN ECOLOGY UNIT DETAILS	N.T.S.
TM-0.8	CONTROLS DIAGRAM AND SEQUENCES	N.T.S.
TM-0.9	CONTROLS DIAGRAMS AND SEQUENCES	N.T.S.
TM-0.10	BAS ARCHITECTURE DIAGRAM	N.T.S.
TM-B.2	BASEMENT - PLUMBING AND PIPING LAYOUT	1:100
TM-1.2	GROUND FLOOR - PLUMBING AND PIPING LAYOUT	1:50
TM-2.2.1	SECOND FLOOR - PLUMBING AND PIPING DEMOLITION LAYOUT	1:100
TM-2.2	SECOND FLOOR - PLUMBING AND PIPING LAYOUT	1:100
TM-3.2.1	THIRD FLOOR - PLUMBING AND PIPING DEMOLITION LAYOUT	1:100
TM-3.2	THIRD FLOOR - PLUMBING AND PIPING LAYOUT	1:100
TM-1.1	GROUND FLOOR - H.V.A.C. DEMOLITION LAYOUT	1:100
TM-1.3	GROUND FLOOR - H.V.A.C. LAYOUT	1:100
TM-2.1	SECOND FLOOR - H.V.A.C. DEMOLITION LAYOUT	1:100
TM-2.3	SECOND FLOOR - H.V.A.C. LAYOUT	1:100
TM-3.1	THIRD FLOOR - H.V.A.C. DEMOLITION LAYOUT	1:100
TM-3.3	THIRD FLOOR - H.V.A.C. LAYOUT	1:100
TM-R.3	ROOF - MECHANICAL LAYOUT	1:100
TM-1.4.1	GROUND FLOOR - FIRE PROTECTION DEMOLITION LAYOUT	1:100
TM-1.4	GROUND FLOOR - FIRE PROTECTION LAYOUT	1:100
TM-2.4.1	SECOND FLOOR - FIRE PROTECTION DEMOLITION LAYOUT	1:100
TM-2.4	SECOND FLOOR - FIRE PROTECTION LAYOUT	1:100
TM-3.4.1	THIRD FLOOR - FIRE PROTECTION DEMOLITION LAYOUT	1:100
TM-3.4	THIRD FLOOR - FIRE PROTECTION LAYOUT	1:100



CONSTRUCTOR 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.

REVISION	
NO.	DESCRIPTION
1	2024-10-04 ISSUED FOR 50% REVIEW
2	2024-11-14 ISSUED FOR PERMIT
3	2024-12-04 ISSUED FOR PER REVIEW
4	2025-01-24 ISSUED FOR PER REVIEW
5	2025-01-31 ISSUED FOR BID



PROJECT:
HEALTH AND WELLNESS
CENTRE RENOVATION AT
KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS:
**COVER & MECHANICAL
DRAWING LIST**

PROJECT NUMBER:
21590.003

DRAWING SCALE:
N.T.S.

DRAWN BY: AS CHECKED BY: RC/DC DATE: 2024-02-08

SHEET NO.: **TM-0.0** REV: **5**

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13) NOT USED
(TM4.3)

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14) NOT USED
(TM4.3)

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15) NOT USED
(TM4.3)

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10) NOT USED
(TM4.3)

--

11) NOT USED
(TM4.3)

--

12) NOT USED
(TM4.3)

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		GROSSTALK SILENCER
	RETURN OR EXHAUST DUCT DOWN OR FROM BELOW		DUCT WITH MINIMUM CLEARANCE FIRE RATED ENCLOSURE
	ROUND DUCT UP OR FROM ABOVE		DUCT WITH SLEEVE, INSULATION AND DAMPER
	ROUND DUCT DOWN OR FROM BELOW		CAPPED CONNECTION
	ACOUSTIC LINED DUCT		RISE IN DUCT
	FLEXIBLE CONNECTION		DROP IN DUCT
	SQUARE ELBOW DUCT WITH TURNING VANES		SOUND Baffle
	RADIUS ELBOW WITH TURNING VANES		PROPELLER FAN WITH PROTECTIVE SCREEN
	AXIAL FAN / INLINE FAN MIXED FLOW OR CENTRIFUGAL		LINEAR SLOT DIFFUSER
	DIFFUSER, GRILLE, OR REGISTER TYPE		IMPERIAL CFM (IN4) METRIC L/s (mm)
	ROUND SUPPLY DIFFUSER		SUPPLY AIR DIFFUSER CW FLEXIBLE DUCT
	DUCTED RETURN OR EXHAUST REGISTER OR GRILLE		LIGHT TROFFER DIFFUSER TOP INLET CW FLEXIBLE DUCT
	SQUARE OR RECTANGULAR DIFFUSER		LIGHT TROFFER DIFFUSER SIDE INLET CW FLEXIBLE DUCT
	RETURN OR EXHAUST GRILLE		DUCT MOUNTED SUPPLY OR RETURN GRILLE
	ROUND RETURN OR EXHAUST GRILLE		LINEAR SUPPLY OR RETURN GRILLE
	SQUARE DIFFUSER		
	DIFFUSER WITH BLANK-OFF PORTION (QTY SHOWN)		
NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS			

3) AIR HANDLING SYMBOLS AND ABBREVIATIONS
(012.10)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	POWER REQUIREMENT FOR ELECTRIC TRACING	PE	PNEUMATIC-ELECTRIC
	ELECTRIC PIPE TRACING FOR SINGLE LINE PIPES	C	CONTROLLER
	ELECTRIC PIPE TRACING FOR DOUBLE LINE PIPES	TS	TEMPERATURE SENSOR
MCC	MOTOR CONTROL CENTRE	HS	HUMIDITY SENSOR
	DISCONNECT SWITCH		AIR FLOW MONITORING STATION
	SWITCH (MANUAL STARTER)	SP	STATIC
HOA	HAND-OFF AUTO	VFD	VARIABLE FREQUENCY DRIVE
PZ	LOW TEMPERATURE THERMOSTAT	CO	CARBON MONOXIDE SENSOR
PS	HIGH TEMPERATURE THERMOSTAT	RS	REFRIGERANT SENSOR
T	ELECTROL/LOW VOLTAGE THERMOSTAT/SENSOR	CO2	CARBON DIOXIDE SENSOR
1	PNEUMATIC THERMOSTAT	NO2	NITROGEN DIOXIDE SENSOR
F1	FLOW SWITCH	AFS	AIR FLOW STATION
3	SPEED SWITCH	PS	PRESSURE SENSOR
T	THERMOSTAT WITH LOCKABLE TAMPER GUARD	BTU	BTU METER
NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS			

8) ELECTRICAL AND CONTROLS SYMBOLS AND ABBREVIATIONS
(012.11)

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9) NOT USED
(TM4.3)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ISOLATION VALVE (REFER TO SPECIFICATION FOR SPECIFIC TYPE AS REQUIRED)		PIPE GUIDE (REFER TO SPECIFICATIONS)
	GLOBE VALVE		PIPE SLEEVE
	BALL VALVE		ANCHOR
	LOCKSHIELD VALVE		STRAINER
FBV	FLOW BALANCING VALVE		UNION
PIEBV	PRESSURE INDEPENDENT FLOW BALANCING VALVE		FLANGE FITTING
	PLUG VALVE		ECCENTRIC FITTING
PRV	NATURAL PRESSURE REDUCING VALVE ASSEMBLY		CNCONTRIC FITTING
	CHECK VALVE		PRESSURE GAUGE
	SOLENOID VALVE		THERMOMETER
	SAFETY RELIEF VALVE		PRESSURE GAUGE COCK ASSEMBLY
	FLOW METERING STATION		THERMOMETER WELL
	BACKFLOW PREVENTOR		EXPANSION JOINT
	ANGLE VALVE		MANUAL AIR VENT
	BUTTERFLY VALVE		AUTOMATIC AIR VENT
	2-WAY BUTTERFLY VALVE		AIR SEPARATOR
	TEMPERED MIXING VALVE		SIGHT GLASS
	FLEXIBLE JOINT		PUMP
VB	VACUUM BREAKER		DOMESTIC WATER PRV STATION
	BACK WATER VALVE		WATER HAMMER ARRESTOR
NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS			

4) VALVE AND COMPONENT SYMBOLS AND ABBREVIATIONS
(012.06)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
HWS	HEATING WATER SUPPLY	FOS	FUEL OIL SUPPLY
HWR	HEATING WATER RETURN	FOR	FUEL OIL RETURN
CHS	CHILLED WATER SUPPLY	EFOV	EMERGENCY FUEL OIL VENT
CHR	CHILLED WATER RETURN	FOV	FUEL OIL VENT
GLS	GLYCOL SUPPLY	FOF	FUEL OIL FILL
GLR	GLYCOL RETURN	PC	PUMPED STEAM CONDENSATE
QLHS	GLYCOL HEATING SUPPLY	RS	REFRIGERATION SUCTION
QLHR	GLYCOL HEATING RETURN	RL	REFRIGERATION LIQUID
QLCS	GLYCOL COOLING SUPPLY	RHG	REFRIGERATION HOT GAS
GLCR	GLYCOL COOLING RETURN	DTS	DUAL TEMPERATURE SUPPLY
CDS	CONDENSER WATER SUPPLY	DTR	DUAL TEMPERATURE RETURN
CDR	CONDENSER WATER RETURN	BT	BUCKET TYPE STEAM TRAP
LPS	LOW PRESSURE STEAM	FT	FLOAT AND THERMOSTAT TYPE STEAM TRAP
MPS	MEDIUM PRESSURE STEAM	SVB	STEAM VACUUM BREAKER
HPS	HIGH PRESSURE STEAM	TEV	REFRIGERATION THERMAL EXPANSION VALVE
LPC	LOW PRESSURE CONDENSATE	SLV	REFRIGERATION SOLENOID LIQUID VALVE
MPC	MEDIUM PRESSURE CONDENSATE	RFD	REFRIGERATION FILTER DRYER
HPC	HSH PRESSURE CONDENSATE	6W	6 WAY CONTROL VALVE ELECTRIC
PICV	PRESSURE INDEPENDENT CONTROL VALVE	6W	6 WAY CONTROL VALVE
2W	2 WAY CONTROL VALVE	CV	CONTROL VALVE (WHERE SYMBOL NOT SHOWN)
3W	3 WAY CONTROL VALVE		
NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS			

5) MECHANICAL PIPING SYMBOLS AND ABBREVIATIONS
(012.08)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FIRE DAMPER		SMOKE DAMPER
	MOTOR OPERATED DAMPER		POSITIVE SEAL DAMPER
	MANUAL DAMPER		GRAVITY OR BACKDRAFT DAMPER
	BALANCING DAMPER		VOLUME EXTRACTOR
	COMBINATION SMOKE AND FIRE DAMPER		REMOTE OPERATED BALANCING DAMPER
VAV, CPVAV AND ACS TAG			
VAV BOX TYPE		VAV BOX TYPE	
MIN. PRIMARY FLOW FAN POWERED VAV BOX TYPE		MIN. FLOW (L/s) COOLING/HEATING MAX. FLOW (L/s) COOLING/HEATING REHEAT COIL CAPACITY (kW) IMPERIAL CFM (IN4) METRIC L/s (mm)	
	VAV BOX (VARIABLE AIR VOLUME)		FAN POWERED BOX CW RETURN AIR SILENCER OR ACOUSTICALLY LINED RETURN AIR
	VAV BOX WITH ATTENUATOR		FAN POWERED BOX CW RETURN AIR SILENCER OR ACOUSTICALLY LINED RETURN AIR WITH REHEAT COIL
	VAV BOX WITH REHEAT COIL		INDUCTION VAV BOX
	VAV BOX WITH REHEAT COIL AND ATTENUATOR		PRESSURE INDEPENDENT AIR VALVE (IAB)
			TERMINAL UNIT (SEE NOTE 2)
HEATING ELEMENT TAG			
ENCLOSURE TYPE		HEATING CAPACITY 1200W 1944 ACTIVE ELEMENT LENGTH	
	HORIZONTAL UNIT HEATER		DUCT COIL
	DOWN BLAST UNIT HEATER		RADIATION HEATING RISER NUMBERS (S-SUPPLY AND R-RETURN)
	RADIANT HEATING PANEL		WALL FIN ELEMENT IN CONTINUOUS ENCLOSURE
NOTE: 1- NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS NOTE: 2- SYMBOLS ARE DIAGRAMMATIC IN NATURE. REFER TO SPECIFICATIONS/SCHEDULES FOR EXACT DIMENSIONS/CLEARANCES			

6) AIR HANDLING SYMBOLS AND ABBREVIATIONS
(012.09)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DETAIL NUMBER		SECTION NUMBER
	DRAWING NUMBER		REVISION BUBBLE
	REVISION NUMBER		PIPING SERVICE CONTINUES
	ELBOWS		REFER TO STANDARD DETAIL DRAWINGS FOR ADDITIONAL REQUIREMENTS OF EQUIPMENT NOTED
	TEE		VENT PIPE REDUCER
	BRANCH OFF BOTTOM OF MAIN		AIR QUANTITY CFM (L/s)
	BRANCH OFF TOP OF MAIN		
	DIRECTION OF FLOW		
NOTE: EXISTING EQUIPMENT, PIPING, VALVES, DUCTWORK SHOWN LIGHT TO REMAIN.			
	EXISTING DUCT, FLEX DUCT, AND AIR SUPPLY TO REMAIN		EXISTING CONCEALED SPRINKLER HEAD & PIPING TO REMAIN
	EXISTING ELECTROPHILUMATIC THERMOSTAT/TEMPERATURE SENSOR AND SPEED CONTROL SWITCH TO REMAIN		EXISTING PENDANT SPRINKLER HEAD & PIPING TO REMAIN
	EXISTING UPRIGHT SPRINKLER HEAD & PIPING TO REMAIN		EXISTING SIDEWALL OR WINDOW SPRINKLER HEAD & PIPING TO REMAIN
NOTE: EXISTING EQUIPMENT, PIPING, VALVES, DUCTWORK SHOWN HATCHED TO BE REMOVED AND/OR RELOCATED.			
	EXISTING DUCT, FLEX DUCT, AND AIR SUPPLY TO BE REMOVED		EXISTING CONCEALED SPRINKLER HEAD & PIPING TO BE REMOVED/RELOCATED
	EXISTING ELECTROPHILUMATIC THERMOSTAT/TEMPERATURE SENSOR AND SPEED CONTROL SWITCH TO BE REMOVED/RELOCATED		EXISTING PENDANT SPRINKLER HEAD & PIPING TO BE REMOVED/RELOCATED
	EXISTING UPRIGHT SPRINKLER HEAD & PIPING TO BE REMOVED/RELOCATED		EXISTING SIDEWALL OR WINDOW SPRINKLER HEAD & PIPING TO BE REMOVED/RELOCATED
NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS			

1) GENERAL SYMBOLS AND ABBREVIATIONS
(012.13)

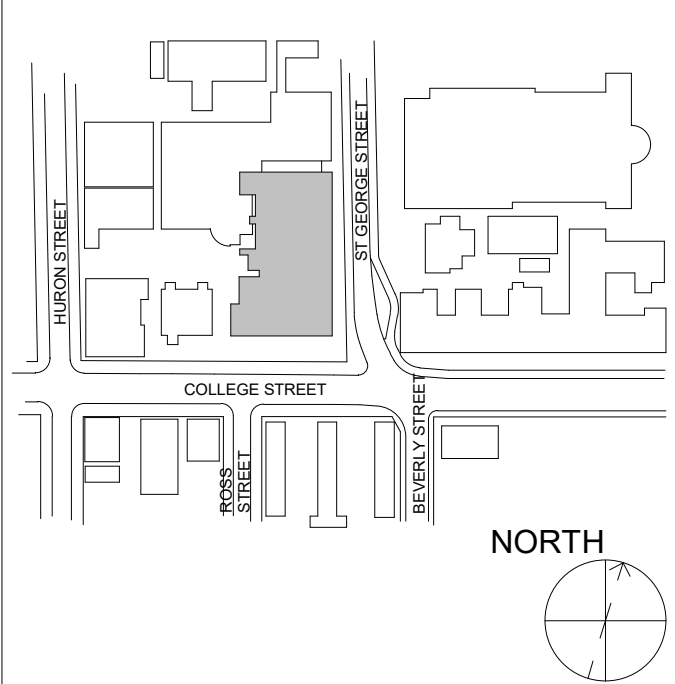
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FLOOR DRAIN, SIZE AS NOTED. REFER TO SPECIFICATION FOR TYPES		DOMESTIC COLD WATER (DOM. COLD WATER) (DCW)
	FUNNEL FLOOR DRAIN, SIZE AS NOTED. REFER TO SPECIFICATION FOR TYPES		DOMESTIC HOT WATER (DOM. HOT WATER) (DHW)
	UPTURNED CLEANOUT		DOMESTIC HOT WATER RECIRCULATION (DOM. HOT WATER RECIRC.) (DHWRC)
	HORIZONTAL CLEANOUT		TEMPERED WATER
	FLOOR DRAIN FROM ABOVE WITH TRAP		NATURAL GAS
	FUNNEL FLOOR DRAIN FROM ABOVE WITH TRAP		NATURAL GAS VENT
	WATER CLOSET AS NOTED. REFER TO SPECIFICATION FOR TYPES		VENT
	URINAL		SANITARY ABOVE GRADE OR FLOOR
	SINGLE COMPARTMENT KITCHEN SINK		SANITARY BELOW GRADE OR FLOOR
	DOUBLE COMPARTMENT SINK		GATE OR ISOLATION VALVE (REFER TO SPECIFICATION)
	WALL HUNG LAVATORY		GLOBE VALVE
	MOP SINK		BALL VALVE
	DRINKING FOUNTAIN		PENDANT SPRINKLER HEAD
	WET SPRINKLER LINE		DRY PENDANT SPRINKLER HEAD
	DRY SPRINKLER LINE		UPRIGHT SPRINKLER HEAD
	FIRE HOSE CABINET AND TYPE		CONCEALED SPRINKLER HEAD
	SPRINKLER SHUT-OFF VALVE CABINET AND TYPE		NON-FREEZE SPRINKLER HEAD
	FIRE EXTINGUISHER AND TYPE		HIGH TEMPERATURE SPRINKLER HEAD
	FIRE EXTINGUISHER CABINET AND TYPE		CHEMICAL SPRINKLER HEAD
	FIRE REEL AND TYPE		SIDEWALL SPRINKLER HEAD
	WATER METER		WINDOW SPRINKLER HEAD
	BACK FLOW PREVENTOR	NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS	

2) GENERAL SYMBOLS AND ABBREVIATIONS
(012.14)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
FIXTURES: REFER TO SPECIFICATION FOR DETAILS AND ADDITIONAL TYPE NOT LISTED BELOW. SYMBOLS ON THIS LEGEND ARE DIAGRAMMATIC IN NATURE. REFER TO SPECIFICATIONS AND OUTLINES OF SPECIFIC FIXTURES BOULED ON FLOOR PLANS.			
	WATER CLOSET		BATHTUB
	URINAL		SHOWER
	COUNTERTOP LAVATORY		BOTTLE FILLER
	WALL HUNG LAVATORY		DRINKING FOUNTAIN
	SINGLE COMPARTMENT SINK		EMERGENCY EYEWASH
	JANITOR SINK		EMERGENCY EYEWASH / SHOWER
	DOUBLE COMPARTMENT SINK		EMERGENCY SHOWER
	FLUSH TANK		
NP	NON-POTABLE (IF SUPPLY IS APPENDED TO A DOMESTIC WATER SYSTEM, I.E. DCHWP)	H	HIGH TEMPERATURE (IF PREFIX IS APPENDED TO A DOMESTIC HOT WATER SYSTEM, I.E. HDHW)
	RECLAIM RAINWATER	RRW	RECLAIM RAINWATER
	NATURAL GAS	G	NATURAL GAS
	NATURAL GAS VENT	GV	NATURAL GAS VENT
	HOSE BIBB	HB	HOSE BIBB
	WALL HYDRANT (OR NON FREEZE WALL HYDRANT)	WH	WALL HYDRANT (OR NON FREEZE WALL HYDRANT)
	GROUND HYDRANT (OR NON FREEZE GROUND HYDRANT)	GH	GROUND HYDRANT (OR NON FREEZE GROUND HYDRANT)
	NON FREEZE POST HYDRANT	NFPH	NON FREEZE POST HYDRANT
	HOT AND COLD HOSE BIBB	HC HB	HOT AND COLD HOSE BIBB
NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS			

3) PLUMBING SYMBOLS AND ABBREVIATIONS
(012.04)

KEY PLAN:



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REVISION

NO.	DATE	DESCRIPTION
1	2024-02-04	ISSUED FOR 50% REVIEW
2	2024-11-14	ISSUED FOR PERMIT
3	2024-12-04	ISSUED FOR PER REVIEW
4	2025-01-24	ISSUED FOR PER REVIEW
5	2025-01-31	ISSUED FOR BID

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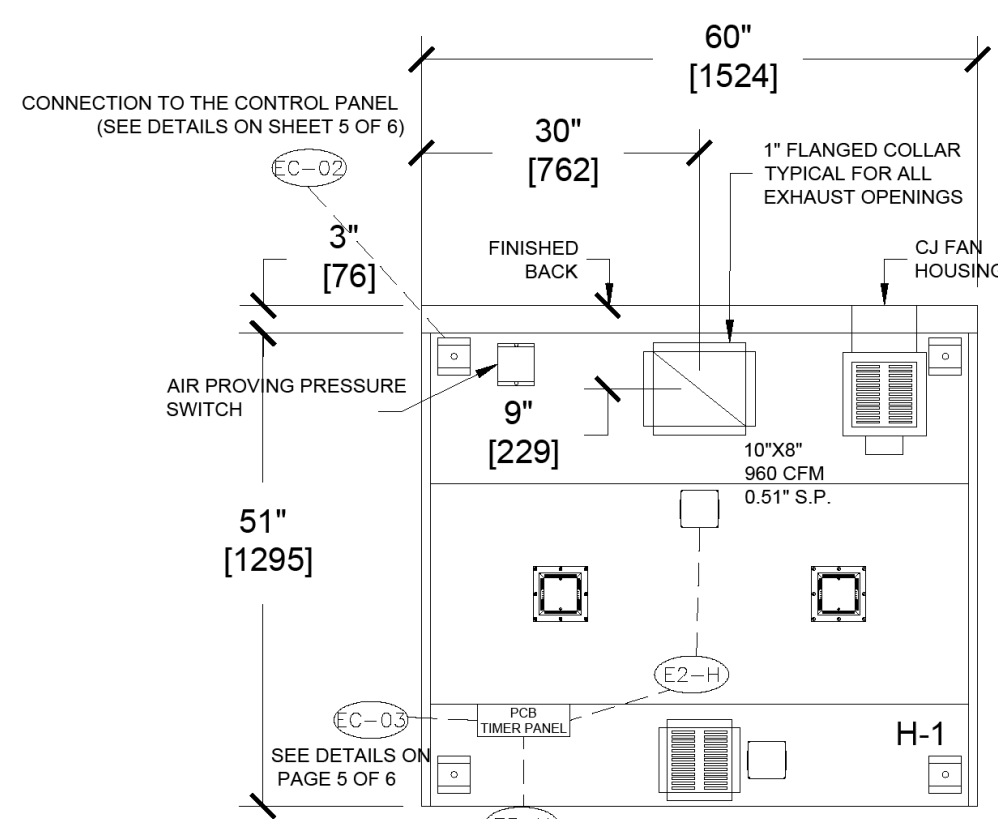
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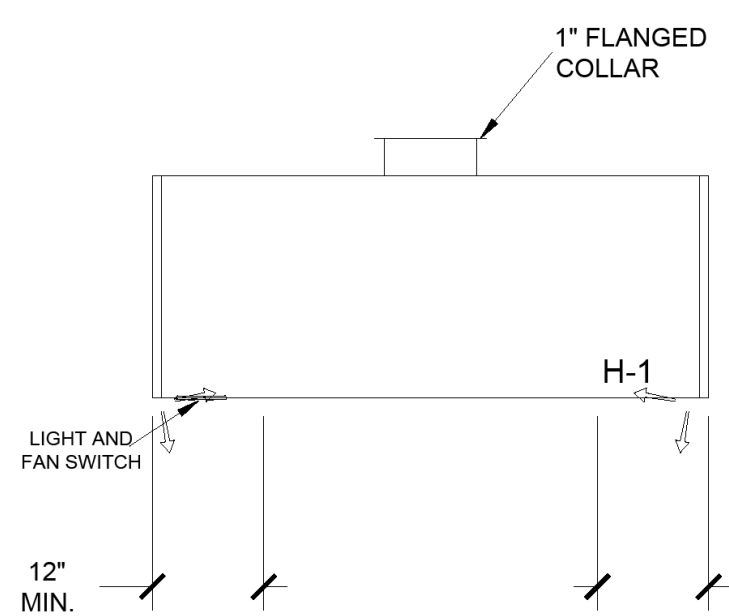
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1 ITEM # H-1
PLAN VIEW



2 ITEM # H-1
ELEVATION VIEW

HOOD INFORMATION TABLE											
DIM. UNITS	HOOD NUMBER	HOOD MODEL	EXHAUST AIR FLOW REQUIREMENTS					GREASE EXTRACTOR			HOOD WEIGHT
			EXHAUST AIR	T.A.B. PORT STATIC PRESSURE	TOTAL HOOD STATIC PRESSURE	EXHAUST COLLAR	QTY	LENGTH	WIDTH	SIZE	
IMPERIAL UNITS	H-1	KVE	960 CFM	0.40" W.G.	0.51" W.G.	10"	1	10"	8"	2 20" 13"	400 lb
METRIC UNITS	H-1	KVE	453 l/s	0.100 kPa	0.127 kPa	254 mm	1	254 mm	203 mm	1 11" 13"	181 kg

ELECTRICAL CONNECTION SCHEDULE			
CONNECTION #	CONNECTION DESCRIPTION	FROM	TO
E2-H	FIELD CONNECTION FOR TEMP SENSORS	HOOD H-1	PCB TIMER PANEL
E3-H	120,15AMP-TIMER PANEL POWER - 3WIRES	BUILDING SOURCE	PCB TIMER PANEL
EC-02	2 WIRES TO COOKLINE AIR PROVING SWITCH	CONTROL PANEL	HOOD H-1
EC-03	TO TIMER PANEL - 2 WIRES @ 120V	CONTROL PANEL	HOOD H-1

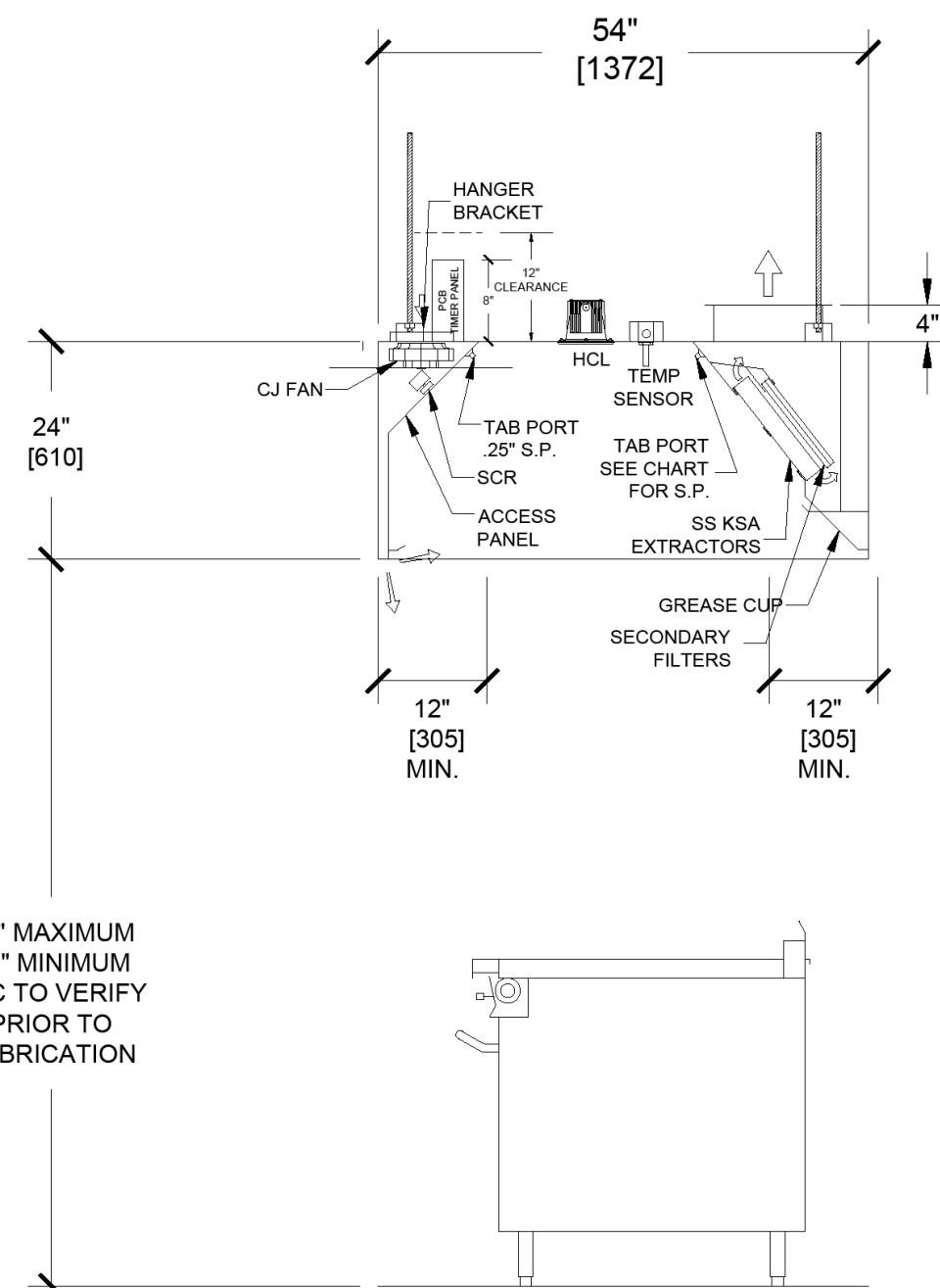
SHOP NOTE:

C/W SECONDARY FILTERS

NOTE:
T-STAT IS FACTORY PRE-SET FOR 90 DEGREES. IF SPACE CONDITIONS EXCEED 90 DEGREES WITHOUT COOKING TAKING PLACE, THEN A FIELD ADJUSTMENT OF THE T-STAT WILL BE REQUIRED BY PERSONNEL OTHER THAN HALTON. T-STAT IS A SAFETY INTERLOCK ONLY. IT IS NOT INTENDED AS A PRIMARY MEANS OF ENGAGING THE EXHAUST FAN.

NOTE:
EXHAUST HOOD MUST BE INSTALLED SO THAT THE COOKING EQUIPMENT IS CENTERED UNDER THE EXHAUST HOOD ABOVE.

NOTE
HALTON "CAPTURE JET" HOODS ARE LISTED FOR 0" CLEARANCE TO COMBUSTIBLE CONSTRUCTION ON SIDE WALLS AS DEFINED BY NFPA96.



GENERAL SPECIFICATIONS

- HOOD CONSTRUCTION AND DESIGN MEETS NFPA 96 AND UL 710 STANDARD.
- HOOD IS NSF AND ETL LISTED UNDER THE FOLLOWING FILE NUMBER: ETL #103143204PRT-001
- ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS.
- THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96, REMOVAL OF SMOKE AND GREASE, LAIEN VAPORS FROM COMMERCIAL COOKING EQUIPMENT.
- ALL EXHAUST DUCTWORK AND TRANSITIONS ARE TO BE PROVIDED BY THE HVAC CONTRACTOR.
- CLEARANCE FROM HOOD AND DUCTS TO COMBUSTIBLE MATERIAL SHALL BE PER APPLICABLE BUILDING CODES.
- FOR PROPER OPERATION OF THE HOOD SYSTEM, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THE HOOD BALANCED AND TESTED TO ENSURE THAT THE EXHAUST AND SUPPLY REQUIREMENTS OF THE HOOD ARE MET.

INSTALLATION REQUIREMENTS

KITCHEN EQUIPMENT CONTRACTOR'S REQUIREMENTS

- PROVIDE DRAWINGS TO APPROPRIATE TRADES REFERENCING UTILITY SERVICE AND COORDINATE FINAL CONNECTION.
- DELIVER ASSEMBLE AND INSTALL HALTON SYSTEM PER DRAWING.
- FURNISH WIRING AND PLUMBING DIAGRAMS TO END USER.
- THE K.E.C. MUST INFORM HALTON OF ANY CHANGES IN EQUIPMENT OR BUILDING STRUCTURE. FIELD MODIFICATIONS ARE THE RESPONSIBILITY OF THE K.E.C.
- IF HALTON MANUAL EXHAUST VOLUME DAMPERS ARE PROVIDED, THE K.E.C. IS RESPONSIBLE FOR THEIR INSTALLATION OR TO MAKE ARRANGEMENTS WITH OTHER TRADES FOR THEIR INSTALLATION.
- IF HALTON MODEL KVA BACKSHELF STYLE HOODS ARE PROVIDED, THE K.E.C. IS RESPONSIBLE FOR THE INSTALLATION OF THE CAPTURE-JET FAN.

ELECTRICAL CONTRACTOR'S REQUIREMENTS

- PROVIDE AND CONNECT ALL REQUIRED VOLTAGES, CONNECTORS, WIRING, CONDUIT, ETC., PER NEC AND ALL APPLICABLE LOCAL CODES.

ELECTRICAL EQUIPMENT REQUIREMENTS

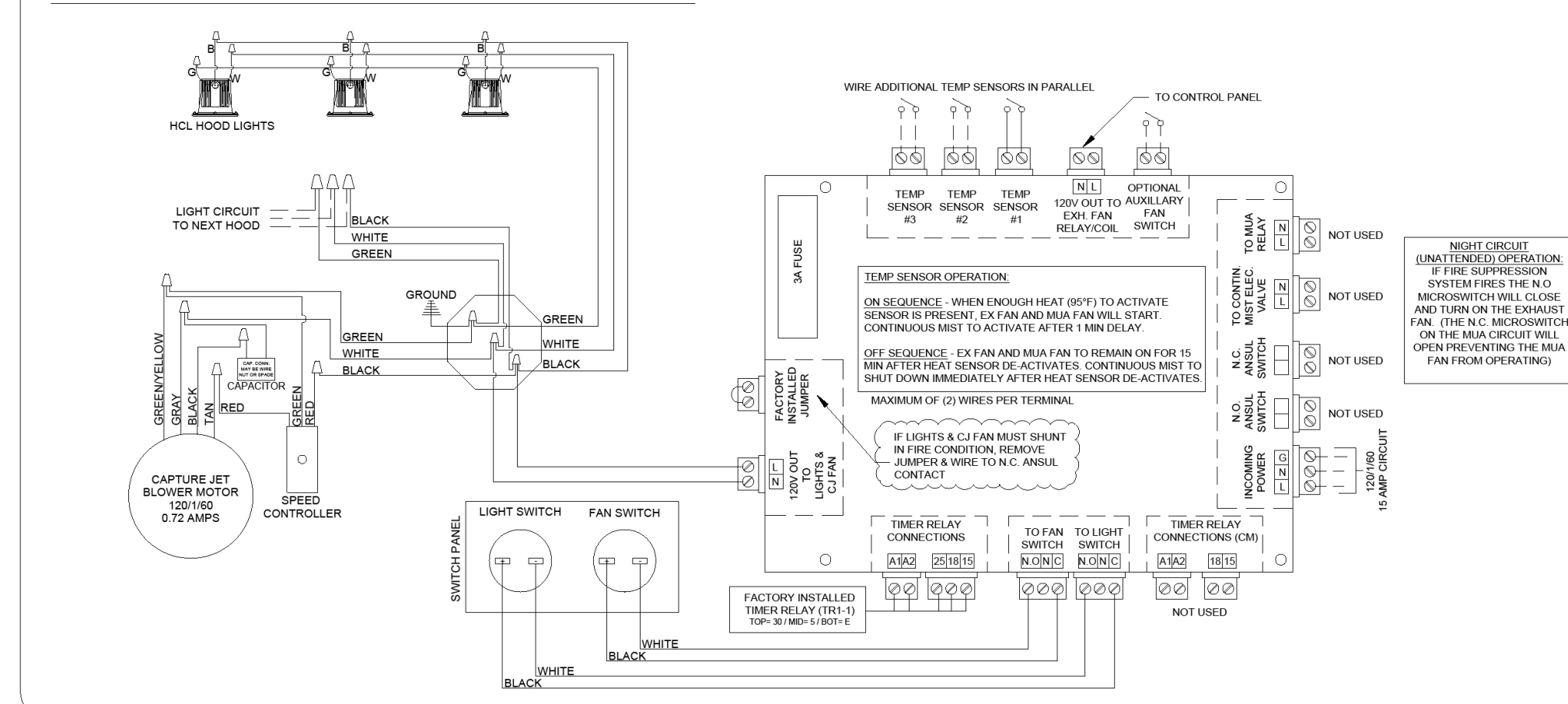
- FLUORESCENT LIGHT FIXTURE
40 WATT MAX BULB = 0.67 AMP EACH
 - RECESSED INCANDESCENT LIGHT FIXTURE
150 WATT MAX BULB = 1.25 AMP EACH
 - CLOSE INCANDESCENT LIGHT FIXTURE
100 WATT MAX BULB = 0.83 AMP EACH
 - HCL LIGHT FIXTURES = 0.12 AMP EACH
 - CAPTURE JET FAN = 0.72 AMP EACH
- **ALL HOOD CIRCUITS ARE NOT TO EXCEED 15 AMP**
NOTE: LIGHT BULBS/LAMPS, IF REQUIRED, ARE NOT PROVIDED BY HALTON

CEILING HEIGHT NOTE

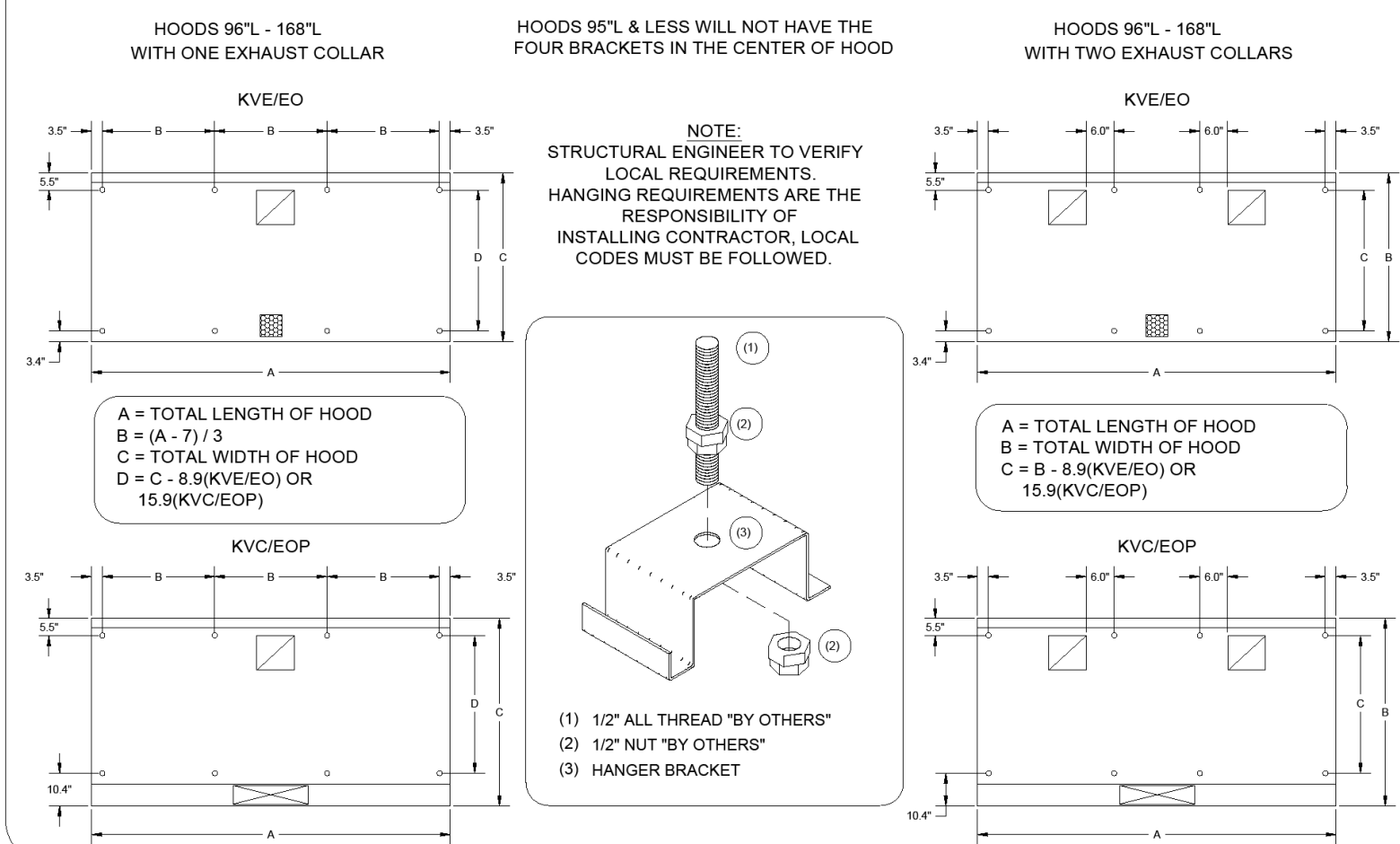
IF HALTON COMPANY IS TO PROVIDE CEILING CLOSURE PANELS, THE EXACT DIMENSION OF THE FINISHED CEILING HEIGHT MUST BE PROVIDED PRIOR TO RELEASE.

FINISHED CEILING HEIGHT A.F.F. : _____

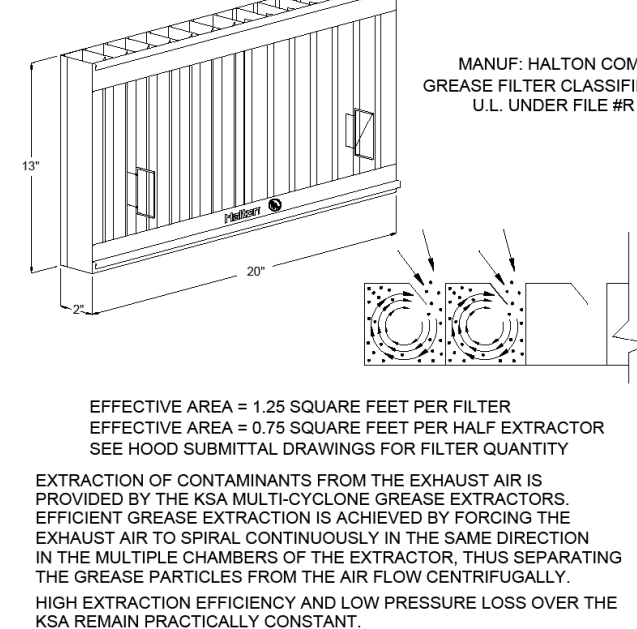
Typical Wiring of Capture-Jet Fan
W/HALTON SUPPLIED SWITCH PANEL



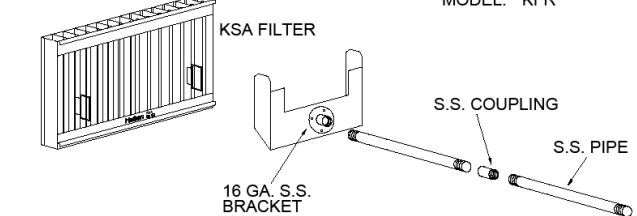
HANGER BRACKET LAYOUT



KSA GREASE EXTRACTOR



KSA FILTER REMOVER



PERFORMANCE CRITERIA

OTHER MANUFACTURERS WISHING TO OFFER AN ALTERNATE TO THE SPECIFIED MANUFACTURER MUST APPLY FOR PERMISSION TO DO SO IN WRITING FROM THE OFFICE OF THE SPECIFYING CONSULTANT. APPLICATION MUST BE RECEIVED BY THE CONSULTANT AT LEAST TEN WORKING DAYS PRIOR TO THE BID DATE. ANY ALTERNATE SYSTEM MUST MEET CONSTRUCTION AND PERFORMANCE REQUIREMENTS AND EFFICIENCIES AS OUTLINED IN THIS SPECIFICATION.

REQUESTS FOR APPROVAL MUST INCLUDE GREASE FILTRATION PERFORMANCE DATA (MICRON SIZE VS. EXTRACTION EFFICIENCY) AND MANUFACTURER'S OWN EXHAUST AIR FLOW CALCULATIONS BASED ON THE CONVECTIVE HEAT LOAD OF COOKING EQUIPMENT BENEATH THE HOOD.

EFFICIENCY COMPARISON DATA TO BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT ASTM STANDARD F1704 AND INCLUDE RESULTS FOR THE REQUIRED CAPTURE AND CONTAINMENT EXHAUST AIR FLOW IN ACCORDANCE WITH THE TEST METHOD TO DETERMINE THE THRESHOLD OF CAPTURE AND CONTAINMENT. DATA MUST INCLUDE THERMAL IMAGING RESULTS VALIDATING CONFORMANCE TO ASTM F1704 AND SUPPLY AIR TEMPERATURE REQUIREMENT OF 74°F.

MAKE UP AIR WILL BE CALCULATED SO THAT THE SAME AMOUNT OF AIR WILL BE TAKEN FROM THE ZONE AS IS REQUIRED BY THE SPECIFIED SYSTEM. AN ADDITIONAL LOAD CANNOT BE PLACED ON THE KITCHEN HVAC SYSTEM.

MANUFACTURER MUST PROVIDE A WRITTEN GUARANTEE OF PERFORMANCE, ENSURING THE SPECIFYING ENGINEER, THE SYSTEM WILL PERFORM TO THE ENGINEER'S SATISFACTION WHEN INSTALLED AND BALANCED ACCORDING TO DESIGN AIR FLOWS AND RESULTS OF ASTM STANDARD F1704 TEST. (AS DETERMINED BY TAB PORTS AND PRESSURE VS. AIR FLOW CURVES.) CONSULTANT RESERVES THE RIGHT TO REJECT ANY SYSTEM WHICH, WHEN INSTALLED, DOES NOT PROVIDE CAPTURE AND CONTAINMENT AT THE THRESHOLD FLOW RATE DETERMINED IN ASTM F1704. REJECTED SYSTEM MUST BE REPLACED WITH SPECIFIED SYSTEM, WITH ALL REPLACEMENT COSTS PAID BY MANUFACTURER OF REJECTED SYSTEM.

ANY CHANGES IN THE SPECIFIED SIZING OF POWER WIRING, FAN SIZE, HORSEPOWER REQUIREMENTS, OR GAS LINES DUE TO THE USE OF ANY SYSTEM OTHER THAN THAT WHICH IS SPECIFIED IS THE RESPONSIBILITY OF THE ALTERNATE HOOD MANUFACTURER, AND MUST BE COORDINATED BY THE HOOD MANUFACTURER AND CONTRACTORS INVOLVED.

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY.

PLEASE VERIFY THE FOLLOWING:
1. THE LOCATION AND TYPE OF COOKING EQUIPMENT
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT
3. THE LOCATION AND TYPE OF COOKING EQUIPMENT
4. THE LOCATION AND TYPE OF COOKING EQUIPMENT
5. THE LOCATION AND TYPE OF COOKING EQUIPMENT
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7. THE LOCATION AND TYPE OF COOKING EQUIPMENT
8. THE LOCATION AND TYPE OF COOKING EQUIPMENT
9. THE LOCATION AND TYPE OF COOKING EQUIPMENT
10. THE LOCATION AND TYPE OF COOKING EQUIPMENT

APPROVED FOR FABRICATION
☐ WITH CHANGES
☐ WITH CHANGES AS NOTED



WEBSITE: WWW.HALTON.COM

HALTON CO. (USA)
101 INDUSTRIAL DRIVE
SCOTTSDALE, KY 42164
1-270-237-5800

HALTON CO. (CANADA)
1023 BREWSTER PLACE
MISSISSAUGA, ON L4W 3R7
1-905-624-0301

PROJECT: KOFFLER HEALTH & WELLNESS RENO

DRAWING TITLE: HOOD DETAILS

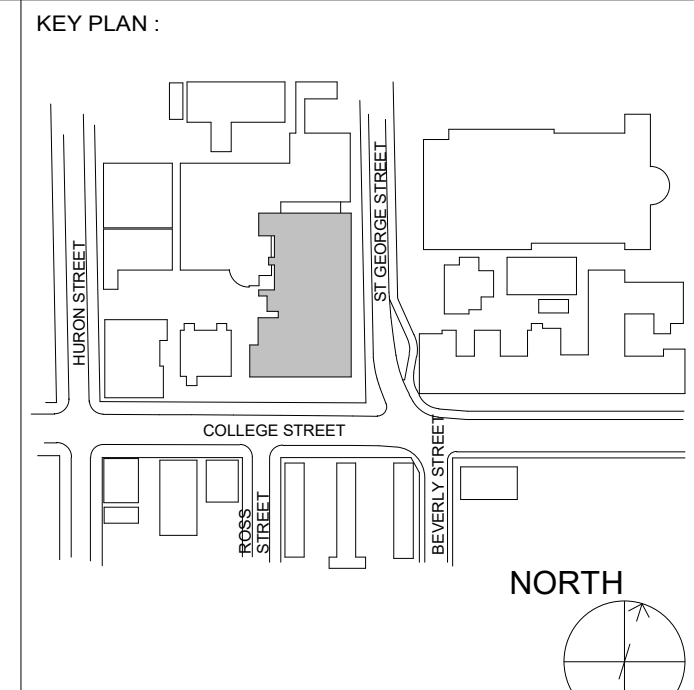
DRAWING NO.: C25-016

REV. NO.: 0 SHEET NO.: 1 of 5

DATE: 12/25

SCALE: NTS

CONSULTANT: Halton



CONSTRUCTOR 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.

REVISION		
NO.	DATE	DESCRIPTION
1	2024-11-14	ISSUED FOR PER REVIEW
2	2024-12-04	ISSUED FOR PER REVIEW
3	2025-01-24	ISSUED FOR PER REVIEW
4	2025-01-31	ISSUED FOR BID

DATE

APPROVED BY

DATE

APPROVED BY

DATE

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SHEET NO : **TM-0.5** REV **1**

MODEL #

RAH 1.0 LH

FLOW POINT CHART

ANSUL R-102 FLOW POINT CALCULATION			
NOZZLE TYPE	NOZZLE FLOW PT.	NOZZLE QUANTITY	TOTAL FLOW PT.
2W	2	4	8
1W	1	1	1
1N	1	18	18
TOTAL FLOW POINTS USED			27
MAX. SYSTEM FLOW POINTS:			33 (9 GALLON)

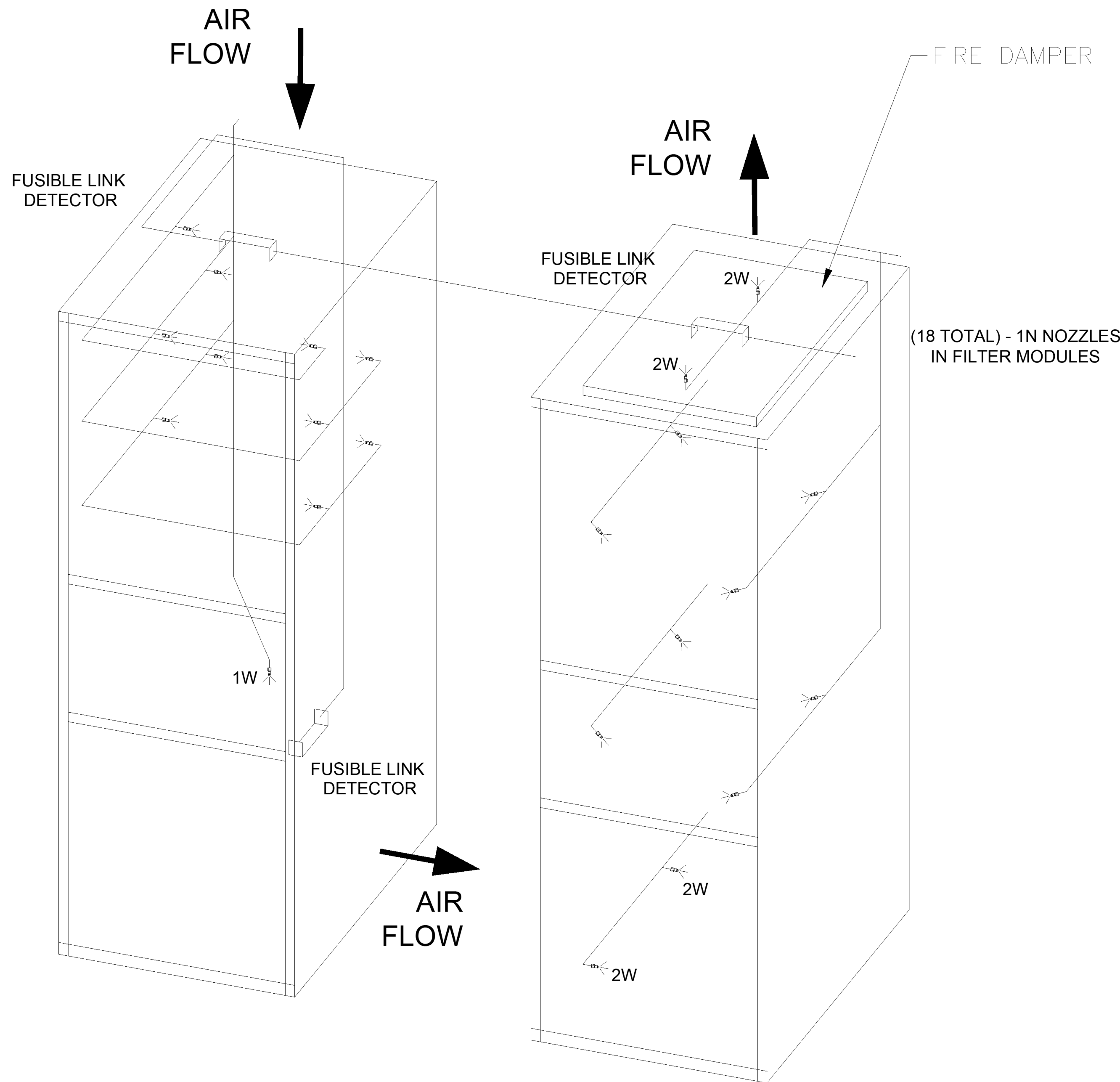
ANSUL NOTES

GENERAL NOTES:

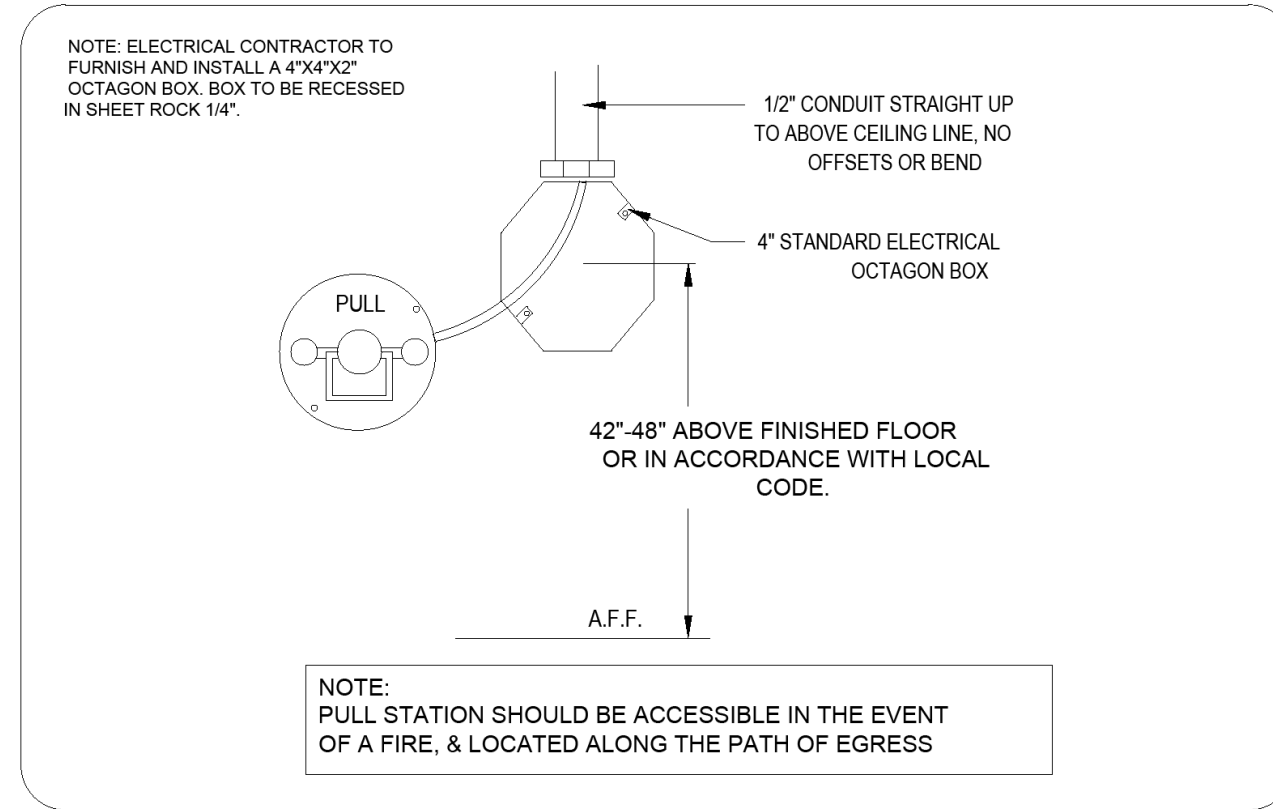
- THIS INSTALLATION IS TO BE MADE IN ACCORDANCE WITH THE R-102 INSTALLATION MANUAL AND IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.
- THE WIRE ROPE FOR THE DETECTOR IS TO BE INSTALLED BY AN AUTHORIZED AND FACTORY TRAINED DISTRIBUTOR OR SERVICE REPRESENTATIVE.
- THIS INSTALLATION IS TO BE INSPECTED, PUT INTO OPERATION AND CERTIFIED BY AN AUTHORIZED AND FACTORY TRAINED DISTRIBUTOR OR SERVICE REPRESENTATIVE.
- ELECTRICAL CONTACTS AND WIRING FOR APPLIANCE SHUT OFF TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- ANSUL R-102 RESTAURANT FIRE SUPPRESSION SYSTEMS HAVE BEEN TESTED AND ARE LISTED BY UNDERWRITERS' LABORATORIES INC. AS PRE-ENGINEERED SYSTEMS, AND WHEN INSTALLED AS SHOWN ON THIS DRAWING SHALL COMPLY WITH ALL RELEVANT ANSUL INSTALLATION RECHARGE INSPECTION AND MAINTENANCE MANUALS AND SHALL COMPLY WITH NFPA 96 WHEN INSTALLED AND CERTIFIED BY AUTHORIZED TRAINED ANSUL DISTRIBUTORS IN ACCORDANCE WITH THE MANUAL.
- ALL AGENT DISTRIBUTION PIPING AND DETECTION CONDUIT HOOD PENETRATIONS MUST BE PROPERLY SEALED IN ACCORDANCE WITH NFPA 96.

DISTRIBUTION PIPING REQUIREMENT NOTES:

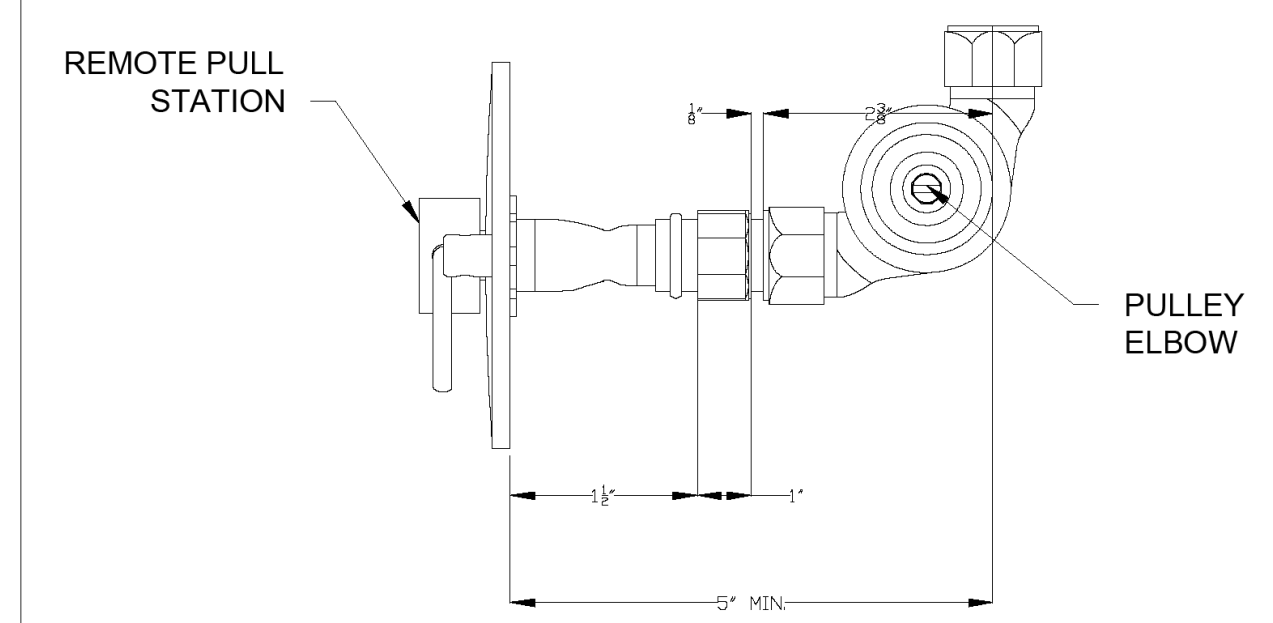
- PIPE SHALL BE 3/8" SCHEDULE 40 BLACK IRON FOR INDOOR APPLICATIONS, AND WILL BE PAINTED FOR OUTDOOR APPLICATIONS UNLESS OTHERWISE NOTED.
- FINAL NOZZLE LOCATION MAY NOT VARY FROM LOCATION SHOWN.



MANUAL PULL DETAIL

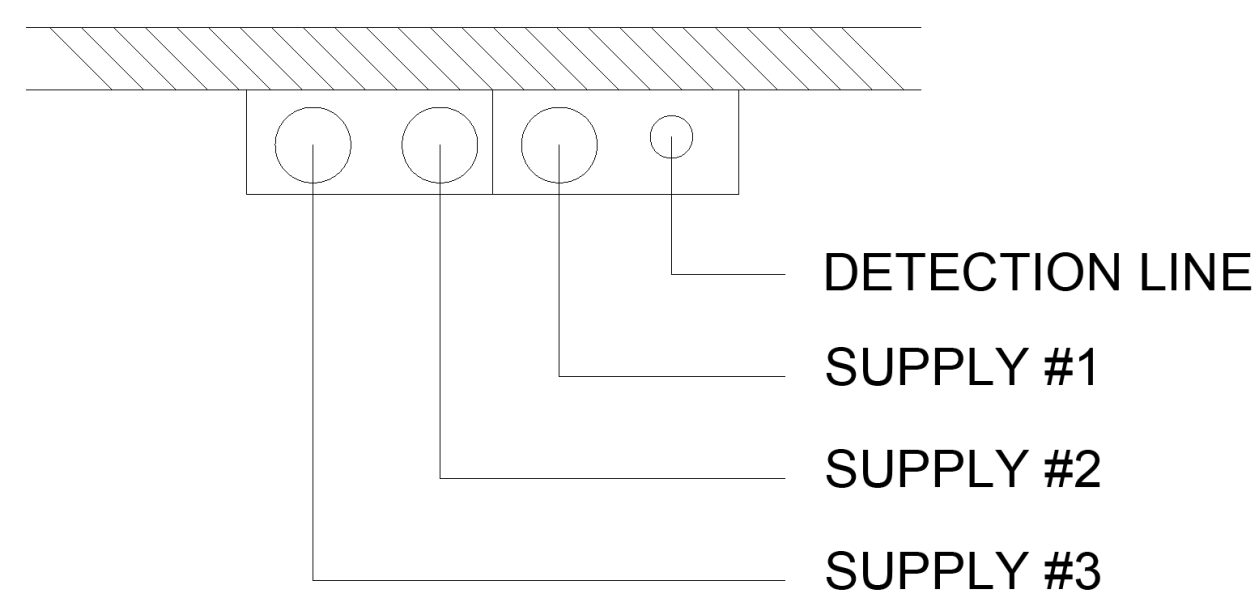


SECTION VIEW



REMOTE MOUNTED:

- (1) 120V ELECTRIC REGULATED RELEASE (WITH ONE TANK)
- (1) DOUBLE TANK ENCLOSURE (WITH TWO TANKS)



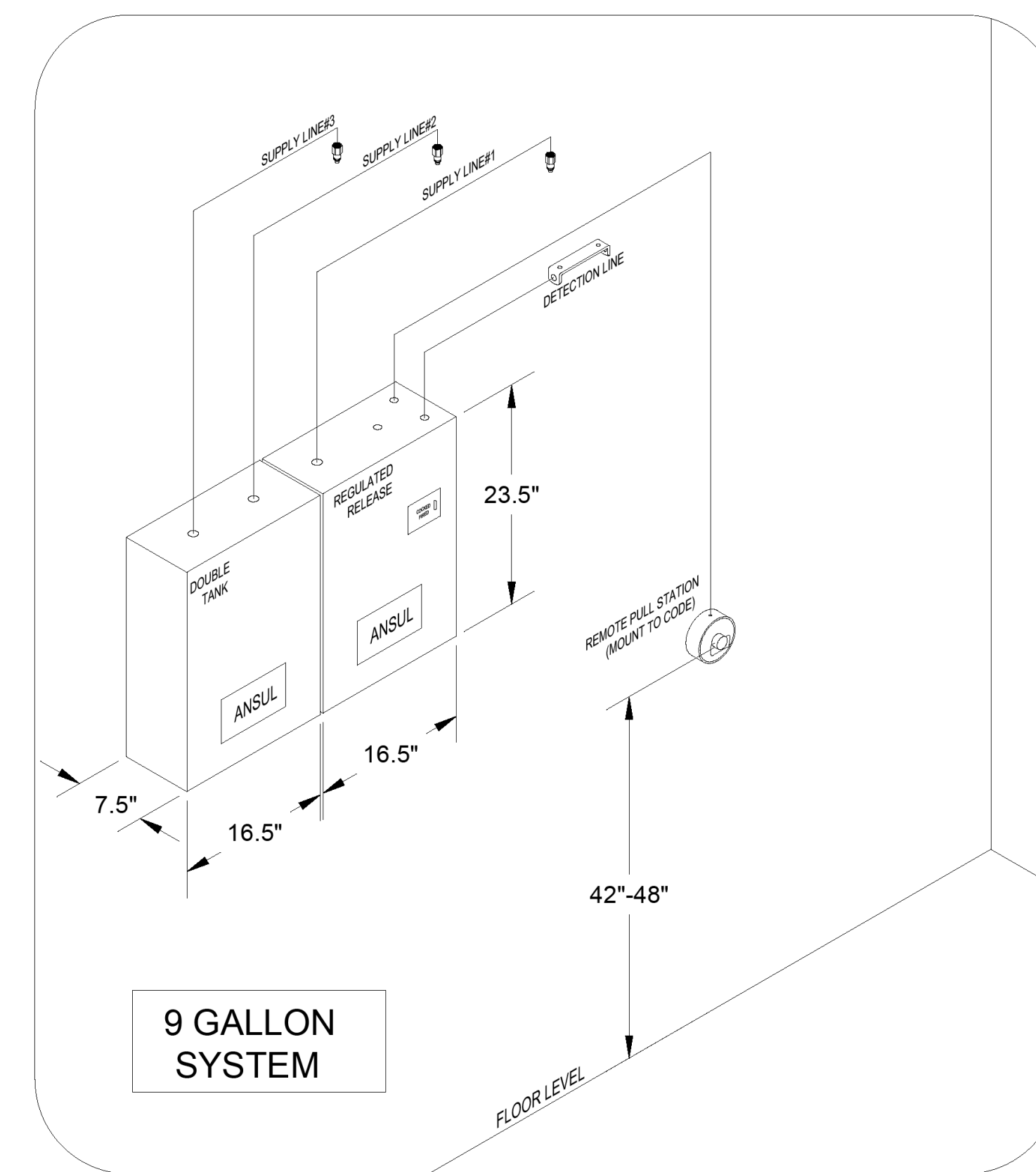
- 1) ANSUL R-102 FIRE SYSTEM
- 2) THREE TANK SYSTEM (9 GALLON)
- 3) 3/8\"/>

NOTE:

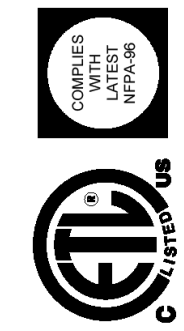
HALTON COMPANY WILL SUPPLY ANSUL COMPONENTS AND PRE-PIPED HOODS PER PUBLISHED ANSUL GUIDELINES AND RECOMMENDATIONS. IT IS THE RESPONSIBILITY OF THE F.S.E.C. TO INFORM HALTON OF ANY SPECIAL REQUIREMENTS OF THE LOCAL JURISDICTION PRIOR TO RELEASE OF EQUIPMENT.

NOTE:

ALL PIPING FOR LOW PROXIMITY APPLIANCE PROTECTION SHALL BE PROVIDED & INSTALLED BY THE INSTALLING ANSUL DISTRIBUTOR & NOT BY HALTON.



THIS DRAWING MUST BE CHECKED, BIRMED AND RETURNED TO THE APPROPRIATE FACTORY FOR RECHARGE AND REPAIR. THE RECHARGE AND REPAIR MUST BE COMPLETED WITHIN 10 BUSINESS DAYS OF THE DATE OF THE DRAWING. THE RECHARGE AND REPAIR MUST BE COMPLETED WITHIN 10 BUSINESS DAYS OF THE DATE OF THE DRAWING. THE RECHARGE AND REPAIR MUST BE COMPLETED WITHIN 10 BUSINESS DAYS OF THE DATE OF THE DRAWING.



WEBSITE: www.halton.com

HALTON CO. (USA)
101 INDUSTRIAL DRIVE
SCOTTSDALE, KY 42164
1-270-237-5800

HALTON CO. (CANADA)
1021 BREVIK PLACE
MISSISSAUGA, ON L4W 3R7
1-800-624-0301

PROJECT: KOFFLER HEALTH & WELLNESS RENO
LOCATION: TORONTO ON
DRAWN BY: OL
SCALE: N.T.S.
CONSULTANT:

DATE: 1/27/25
DATE: 1/27/25
DATE: 1/27/25
DATE: 1/27/25
DATE: 1/27/25
DATE: 1/27/25
DATE: 1/27/25

DRAWING TITLE:

Reco-Air RAH 1.0

DRAWING No.:

C25-016

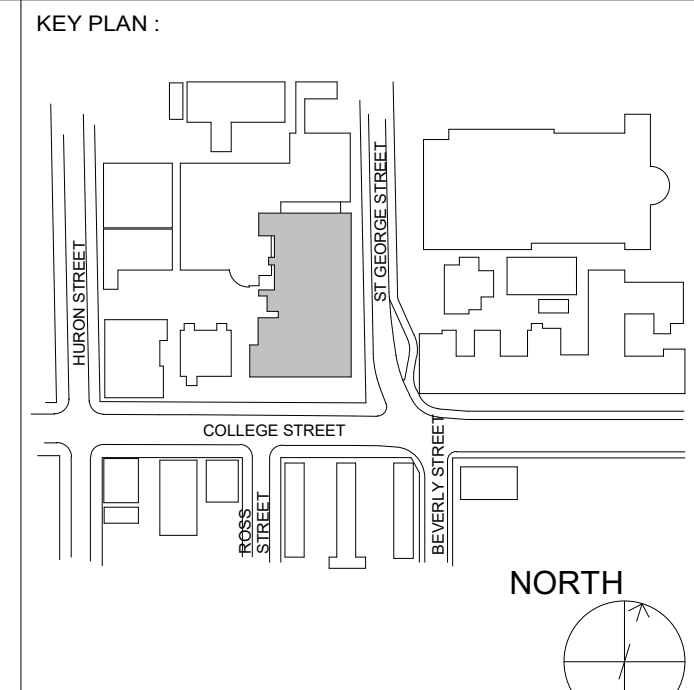
REV. NO.:

0

SHEET NO.:

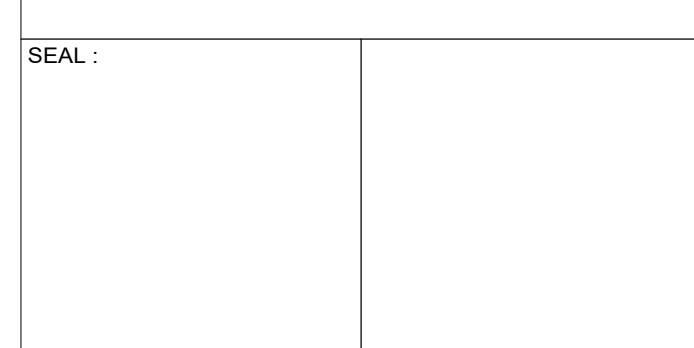
4 of 5

Halton



CONSTRUCTOR 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.

REVISION		
NO.	DATE	DESCRIPTION
1	2025-01-31	ISSUED FOR BID



PROJECT: HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST. TORONTO, ON M5T 3A1

SHEET CONTENTS: KITCHEN ECOLOGY UNIT DETAILS

PROJECT NUMBER: 21590.003

DRAWING SCALE: N.T.S.

DRAWN BY: AS

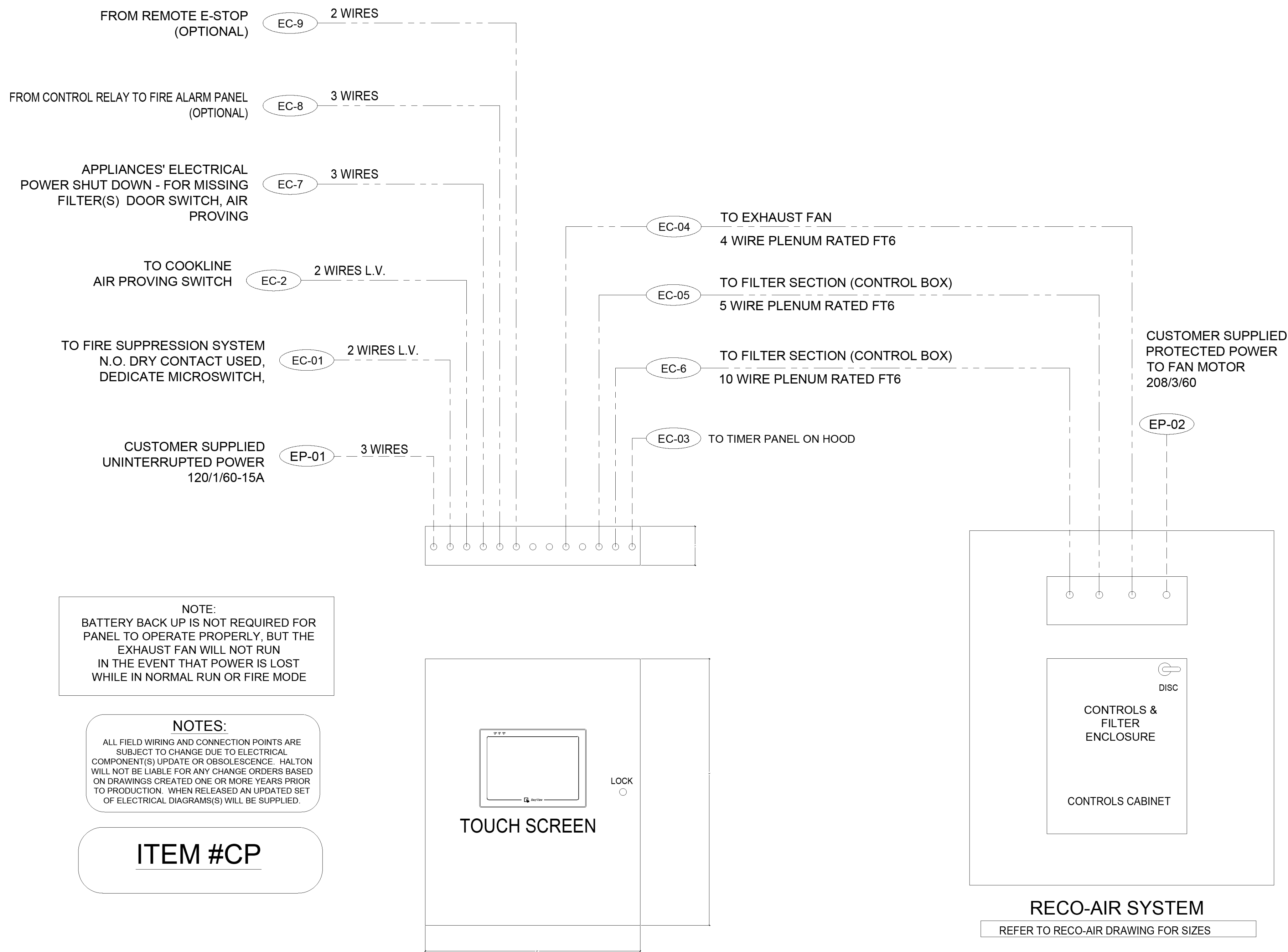
CHECKED BY: RC/DC

DATE: 2024-02-08

SHEET NO.: 1

TM-0.6

RECO-AIR UNIT IS TO SHUT DOWN IN FIRE MODE



ITEM #CP

RECO-AIR CONTROL PANEL

RECO-AIR SYSTEM

REFER TO RECO-AIR DRAWING FOR SIZES

ELECTRICAL CONNECTION SCHEDULE

POWER CONNECTIONS :	
EP-01	120 V, 15 AMP - RECO-AIR CONTROL PANEL POWER - 3 WIRES
EP-02	HIGH VOLTAGE POWER FROM BUILDING SOURCE TO VFD

CONTROLS CONNECTIONS :	
EC-01	2 WIRES - TO N.O. CONTACT OF FIRE SYSTEM MICROSWITCH
EC-02	2 WIRES TO COOKLINE AIR PROVING SWITCH
EC-03	2 WIRES - FROM TIMER PANEL - 120 VAC
EC-04	4 WIRES TO EXHAUST FAN - PLENUM RATED FT6
EC-05	5 WIRES TO FILTER SECTION - STP CABLE - FT6 RATED
EC-06	10 WIRES TO DOOR MICROSWITCHES, CANOPY FILTER SWITCH
EC-07	3 WIRES (N.O., COMMON, N.C.) FROM CONTROL RELAY TO SHUNT TRIP
EC-08	3 WIRES (N.O., COMMON, N.C.) FROM CONTROL RELAY TO FIRE ALARM PANEL (OPTIONAL)
EC-09	2 WIRES (OPTIONAL) FROM REMOTE E-STOP

NOTES:

ALL WIRING AND CABLING TO BE PROVIDED BY ELECTRICAL CONTRACTOR UNLESS STATED OTHERWISE

NOTES:

----- FIELD WIRING (BY E.C.) - 120V - 12AWG MIN.-10AWG MAX.
----- FIELD WIRING (BY E.C.) - 24V - 22AWG MIN.-16AWG MAX.

RECO-AIR - SYSTEM SCOPE OF WORK

RESPONSIBILITY TO BE SELECTED BY GENERAL CONTRACTOR

DEFINITIONS FOR REFERENCE:

RECO-AIR SYSTEMS = 1 EXHAUST FAN SERVING MULTIPLE KITCHEN HOODS OR ONE HOOD ONLY
VFD = VARIABLE FREQUENCY DRIVES

CONNECTION LOCATIONS WILL VARY PER SYSTEM, REFER TO HALTON MARVEL DIAGRAMS FOR SPECIFICS

1. APPLICABLE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE RECO-AIR CONTROL PANEL.
LOCATION TO BE DETERMINED BY GC AND SHAL BE WITHIN SAME SPACE AS THE KITCHEN HOODS BEING SERVED BY PANEL.

2. APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL 120V (15A) DEDICATED CIRCUIT AT RECO-AIR CONTROL PANEL.

3. APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL THREE PHASE OR SINGLE PHASE POWER FEED FROM CIRCUIT BREAKER(S) TO VFD(S). APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL THREE PHASE OR SINGLE PHASE POWER FROM VFD(S) TO EXHAUST / MUA (IF APPLICABLE) MOTORS. IF RECO-AIR IS EXTERIOR TYPE, ALL TO BE RAN IN SEPARATE CONDUIT.

4. APPLICABLE CONTRACTOR TO SUPPLY AND RUN 2 WIRE 5 V DC WIRING FROM FIRE SYSTEM TO RECO-AIR CONTROL PANEL.

5. APPLICABLE CONTRACTOR TO SUPPLY AND RUN 4 WIRE STP PLENUM RATED CABLE FOR MUA / SIGNAL START/STOP FROM CONTROL PANEL TO BMS OR DDC PANEL.

6. APPLICABLE CONTRACTOR TO SUPPLY AND RUN 7 WIRE STP PLENUM RATED CABLE 7 FROM RECO-AIR CONTROL PANEL TO VFD UNIT.

7. APPLICABLE CONTRACTOR TO SUPPLY AND RUN 2 WIRE 24V AC WIRING FROM RECO-AIR CONTROL PANEL TO VFD CABINET. FOR FIRESTAT CONNECTION.

8. APPLICABLE CONTRACTOR TO SUPPLY AND RUN 10 WIRE STP PLENUM RATED CABLE FROM RECO-AIR CONTROL PANEL TO ELECTRICAL ENCLOSURE OF THE FILTER SECTION MOUNTED AT RECO-AIR UNIT.

9. APPLICABLE CONTRACTOR TO SUPPLY AND RUN 3 WIRE 24V AC WIRING FROM RECO-AIR CONTROL PANEL TO THIRD PARTY PANEL IN ORDER TO SHUT OFF POWER SUPPLY AND GAS.

10. APPLICABLE CONTRACTOR TO SUPPLY AND RUN 3 WIRE 24V AC WIRING FROM RECO-AIR CONTROL PANEL TO RECO-AIR CARBON SECTION. THREE WIRES ARE FOR VOC DETECTOR BEFORE CARBON FILTERS AND THREE WIRES ARE FOR VOC DETECTOR AFTER CARBON FILTERS.

11. HALTON REPRESENTATIVE TO PERFORM FINAL FIELD COMMISSIONING ONCE ALL RESPONSIBILITIES ARE COMPLETED ABOVE.

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY.

PLEASE VERIFY THE FOLLOWING:

1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS, AND LOCATION OF COOKING EQUIPMENT.

2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE TO APPROVER: ANY CHANGES IN COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT CHANGES OCCUR, A RE-CALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

APPROVED FOR FABRICATION: ☐ REVISE AND RESUBMIT ☐ WITH NO CHANGES ☐ WITH CHANGES AS NOTED



WEBSITE: www.halton.com

HALTON CO. (USA)

101 INDUSTRIAL DRIVE

SCOTTS BLVD #2164

1270257-5869

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

HALTON CO. (CANADA)

102 BREVIK PLACE

MISSISSAUGA, ONT L4W 3R7

1-905-674-0331

PROJECT: KOFFLER HEALTH & WELLNESS RENO

LOCATION: TORONTO ON

DRAWN BY: OL

DATE: 1/27/25

SCALE: N.T.S.

CONSULTANT:

DRAWING TITLE:

Reco-Air RAH 1.0

DRAWING No.:

C25-016

REV. NO.:

0

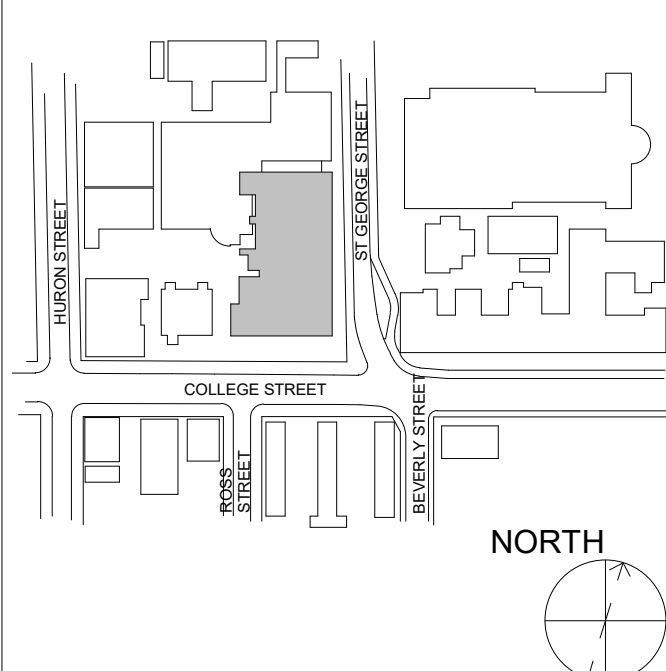
SHEET

NO.:

5

of 5

KEY PLAN:



CONSTRUCTOR 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.

REVISION

NO. DATE DESCRIPTION

1 1/25-01-31 ISSUED FOR BID

SEAL:

OWNER:



PROJECT: HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST.

TORONTO, ON M5T 3A1

SHEET CONTENTS: KITCHEN ECOLOGY UNIT DETAILS

PROJECT NUMBER:

21590.003

DRAWING SCALE:

N.T.S.

DRAWN BY: AS

CHECKED BY: RC/DC

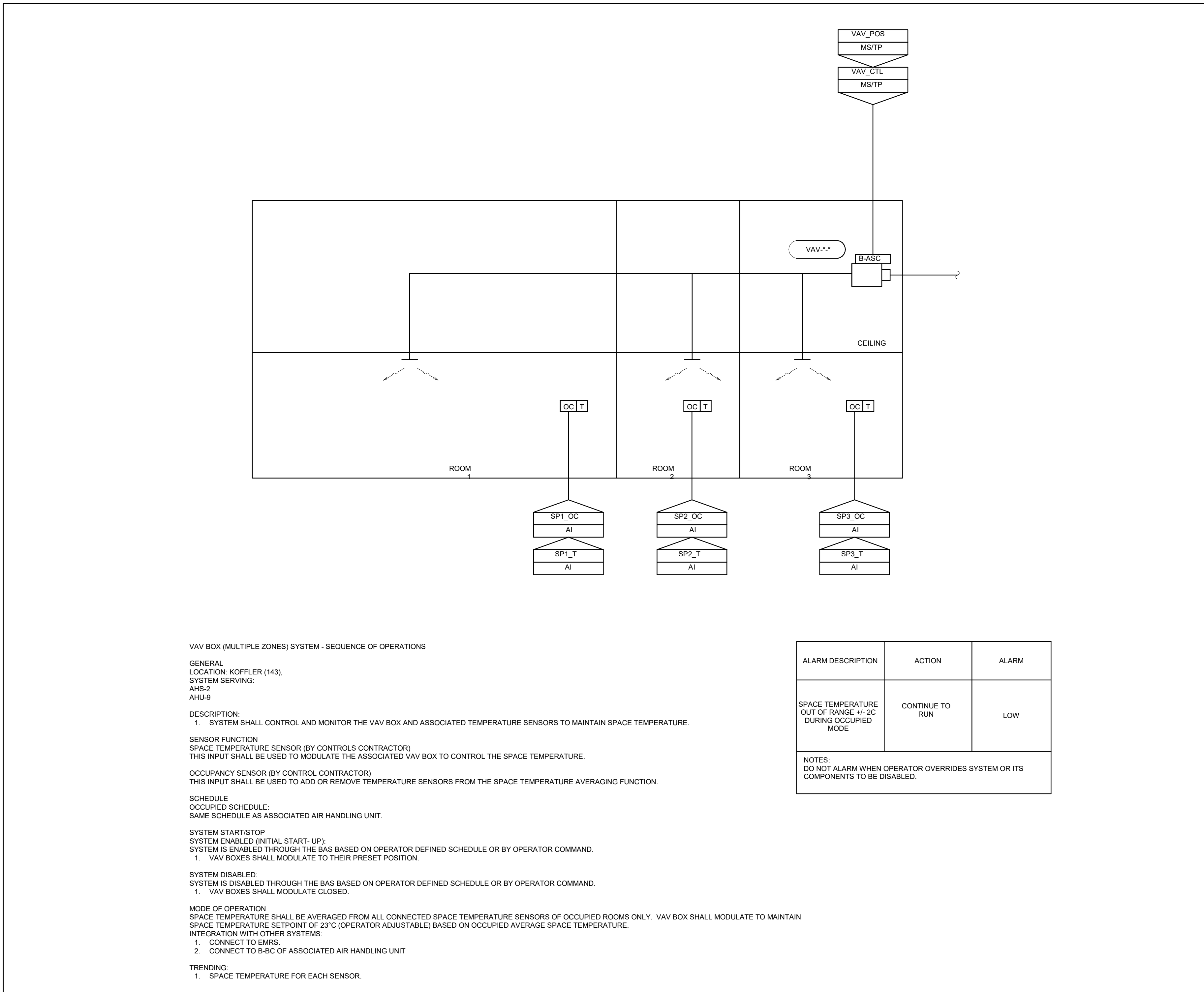
DATE: 2024-02-08

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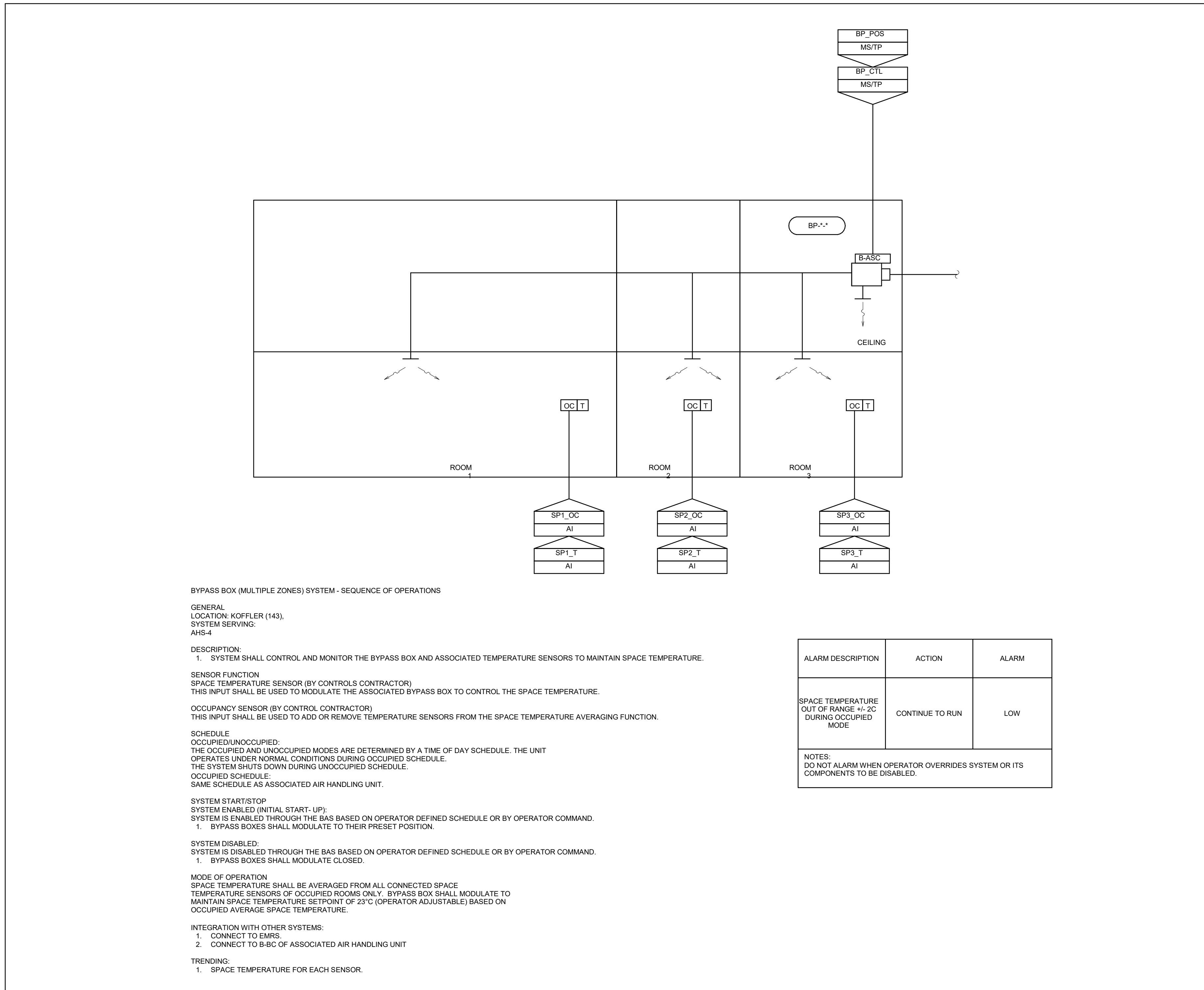
TM-0.7

REV:

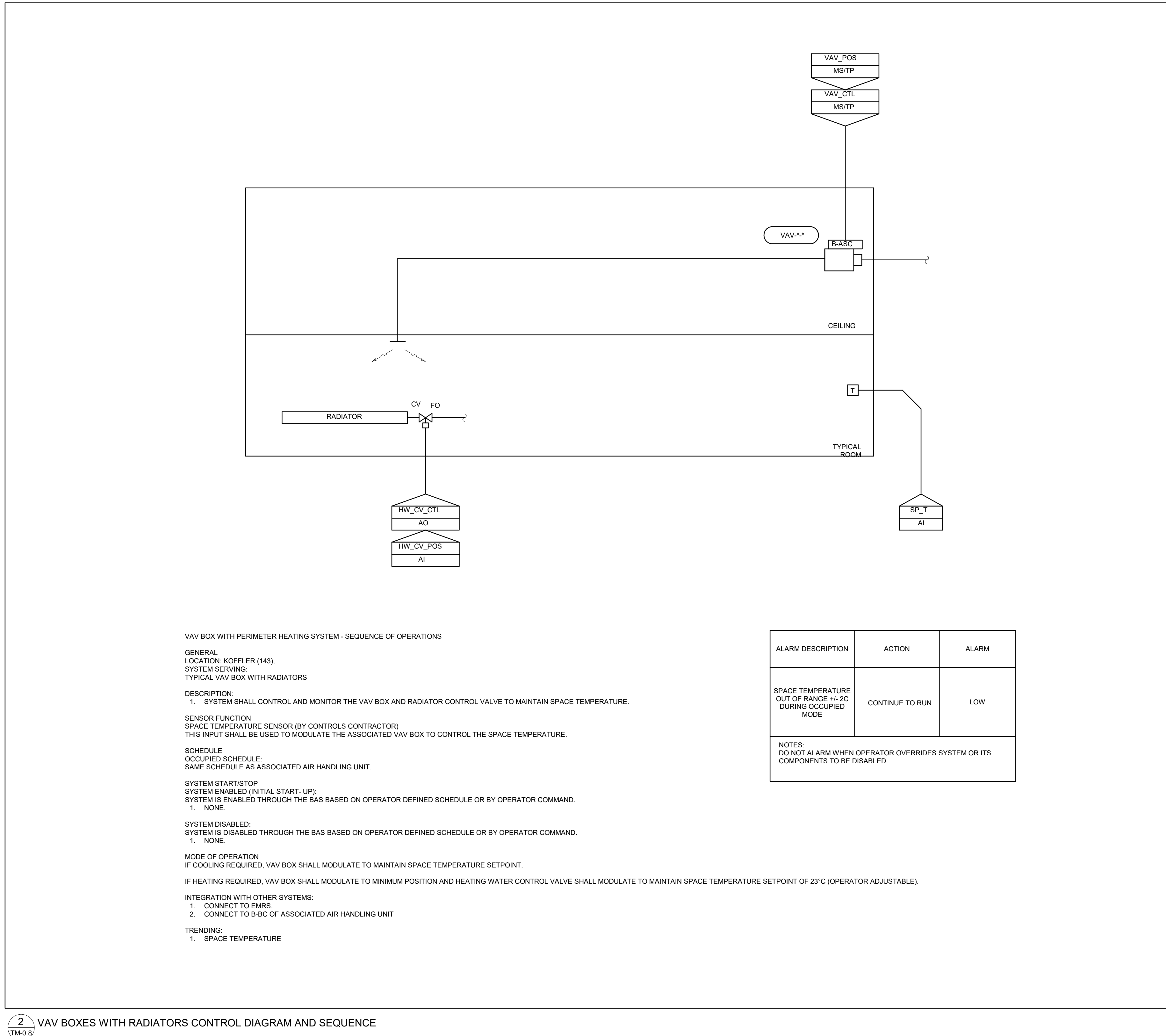
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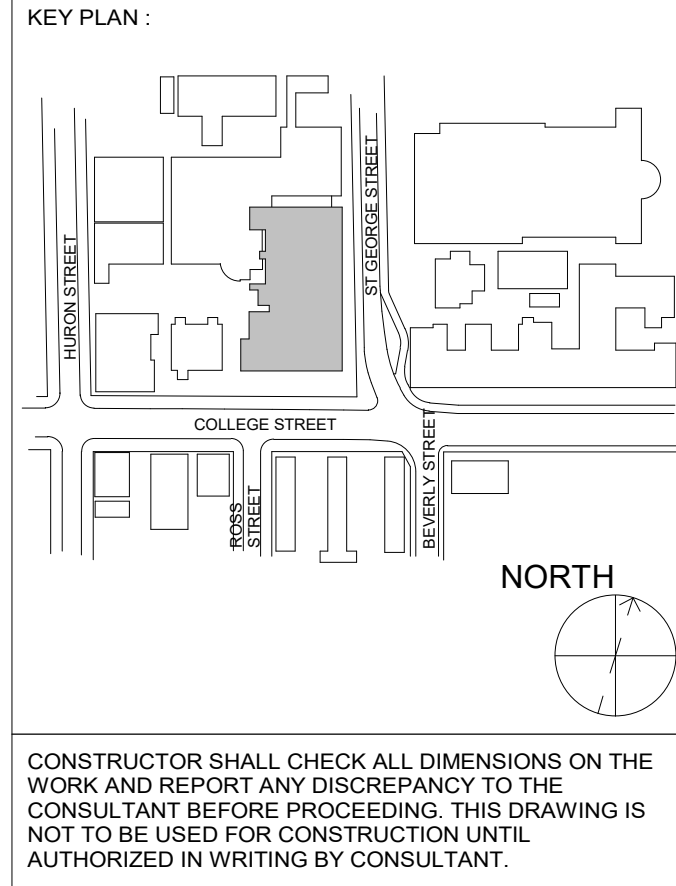
3 MULTI-ZONE VAV BOXES CONTROL DIAGRAM AND SEQUENCE



1 BY PASS BOX CONTROL DIAGRAM AND SEQUENCE



2 VAV BOXES WITH RADIATORS CONTROL DIAGRAM AND SEQUENCE



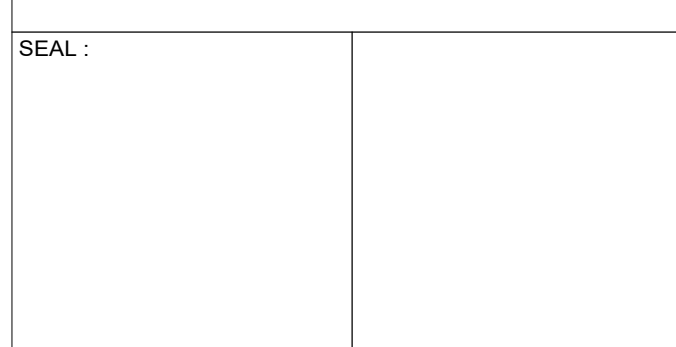
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REVISION		
NO.	DATE	DESCRIPTION
1	2025-01-31	ISSUED FOR BID

ALARM DESCRIPTION	ACTION	ALARM
SPACE TEMPERATURE OUT OF RANGE +/-2C DURING OCCUPIED MODE	CONTINUE TO RUN	LOW
NOTES: DO NOT ALARM WHEN OPERATOR OVERRIDES SYSTEM OR ITS COMPONENTS TO BE DISABLED.		

ALARM DESCRIPTION	ACTION	ALARM
SPACE TEMPERATURE OUT OF RANGE +/-2C DURING OCCUPIED MODE	CONTINUE TO RUN	LOW
NOTES: DO NOT ALARM WHEN OPERATOR OVERRIDES SYSTEM OR ITS COMPONENTS TO BE DISABLED.		

ALARM DESCRIPTION	ACTION	ALARM
SPACE TEMPERATURE OUT OF RANGE +/-2C DURING OCCUPIED MODE	CONTINUE TO RUN	LOW
NOTES: DO NOT ALARM WHEN OPERATOR OVERRIDES SYSTEM OR ITS COMPONENTS TO BE DISABLED.		



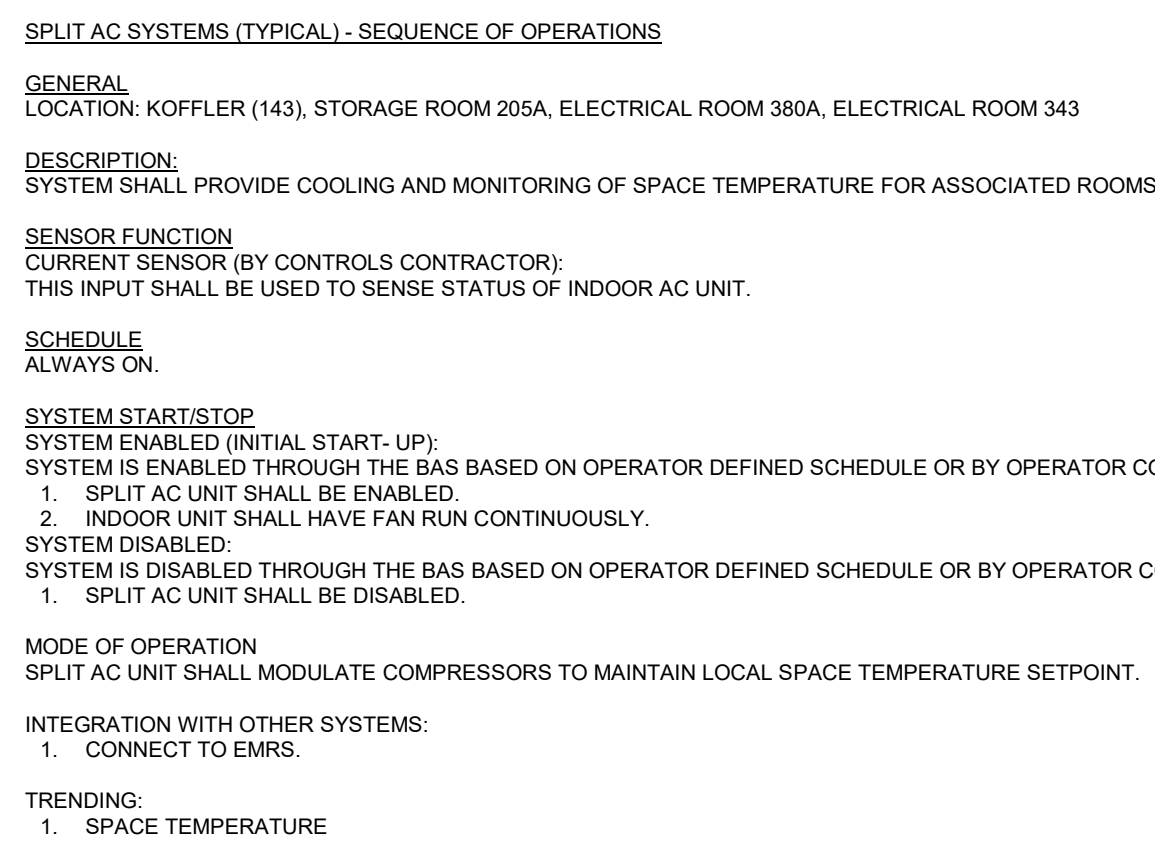
PROJECT:
HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST.
TORONTO, ON M5T 3A1

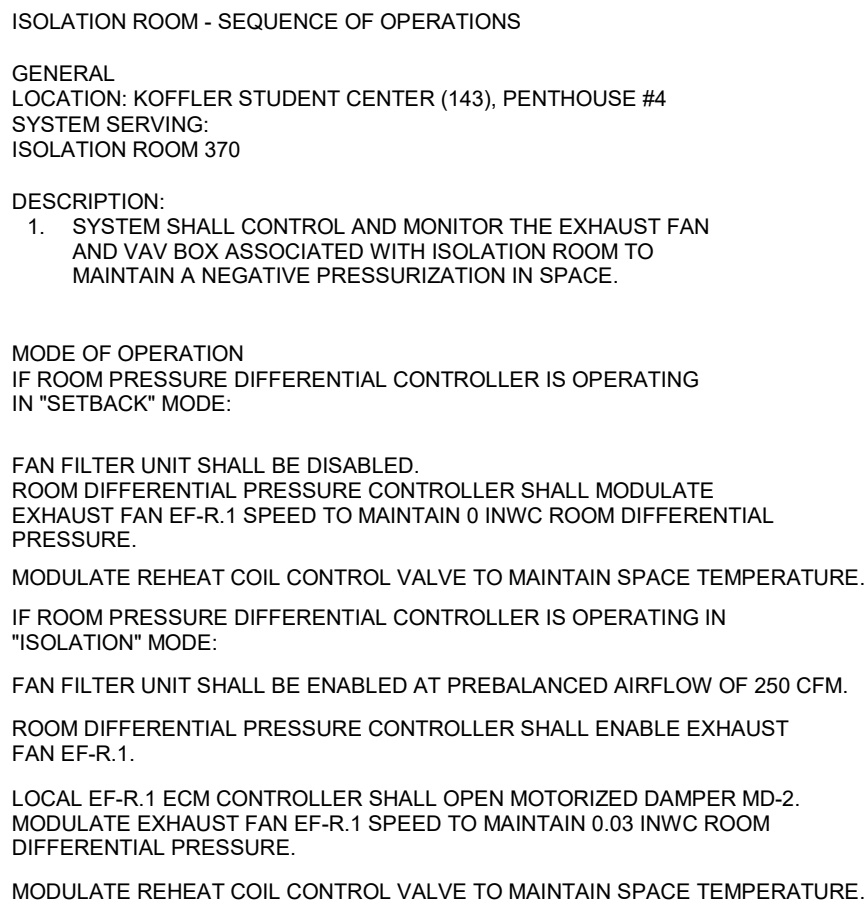
SHEET CONTENTS:
CONTROLS DIAGRAM AND SEQUENCES

PROJECT NUMBER:
21590.003
DRAWING SCALE:
N.T.S.
DRAWN BY:
AS
CHECKED BY:
RC/DC
DATE:
2024-02-08
SHEET NO.:
1
REV:
1

TM-0.8



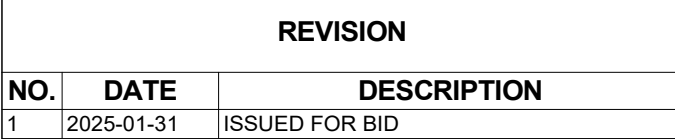
2 SPLIT AC CONTROLS DIAGRAM



ALARM DESCRIPTION	ACTION	ALARM
ROOM PRESSURE BELOW 0.01 INWC.	ACTIVATE LOCAL AUDIBLE AND VISUAL ALARM	CRITICAL
FAN FILTER UNIT FILTER DIRTY	CONTINUE TO RUN	HIGH
HEPA FILTER HOUSING FILTER DIRTY	CONTINUE TO RUN	HIGH

NOTES:
DO NOT ALARM WHEN OPERATOR OVERRIDES SYSTEM OR ITS
COMPONENTS TO BE DISABLED.

1 ISOLATION ROOM CONTROLS DIAGRAM AND SEQUENCE
TM0.9



REVISION		
NO.	DATE	DESCRIPTION
1	2025-01-31	ISSUED FOR BID



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PROJECT :
HEALTH AND WELLNESS
CENTRE RENOVATION AT
KOFFLER

214 COLLEGE ST.
TORONTO, ON M5T 3A1

SHEET CONTENTS :

CONTROLS DIAGRAMS AND SEQUENCES

PROJECT NUMBER
21590 003

DRAWING SCALE :

N.T.S.

DRAWN BY
A.E.

AS

SHEET NO
111

TM-0.9

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CHECKED BY:	DATE:

RC/DC

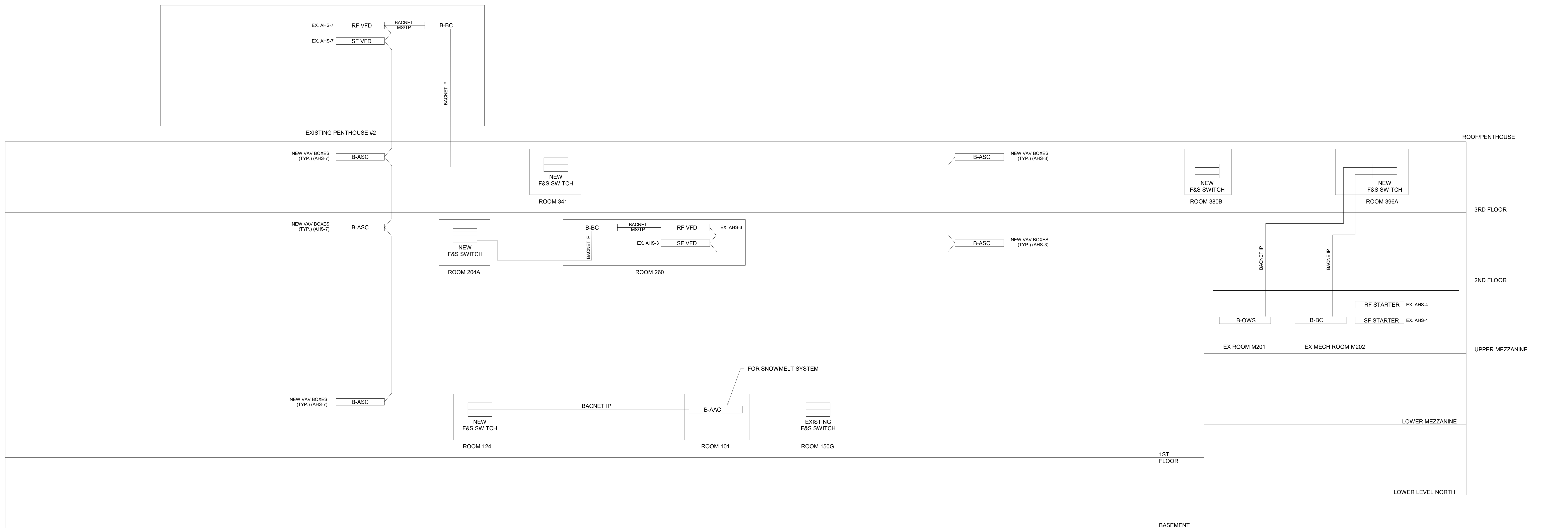
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.9

GENERAL NOTES:
PROVIDE ALL NEW DATA AND COMMUNICATION CABLING AS SHOWN BELOW AND AS SPECIFIED. COORDINATE WITH ALL TRADES

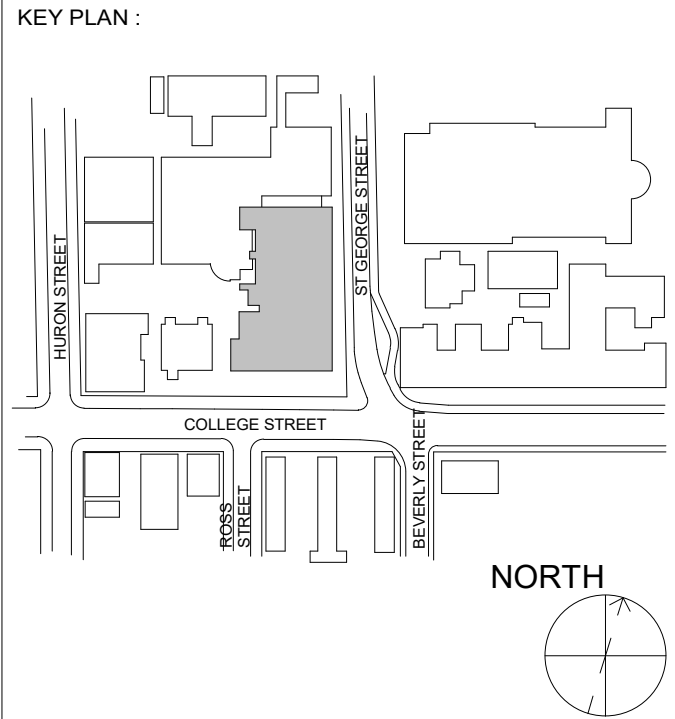
LEGEND:

- B-BC - BUILDING CONTROLLER CAV UPS
- B-AAG - ADVANCED APPLICATION CONTROLLER
- B-ASC - APPLICATION SPECIFIC CONTROLLER
- B-GW - GATEWAY
- B-OWS - OPERATOR WORKSTATION



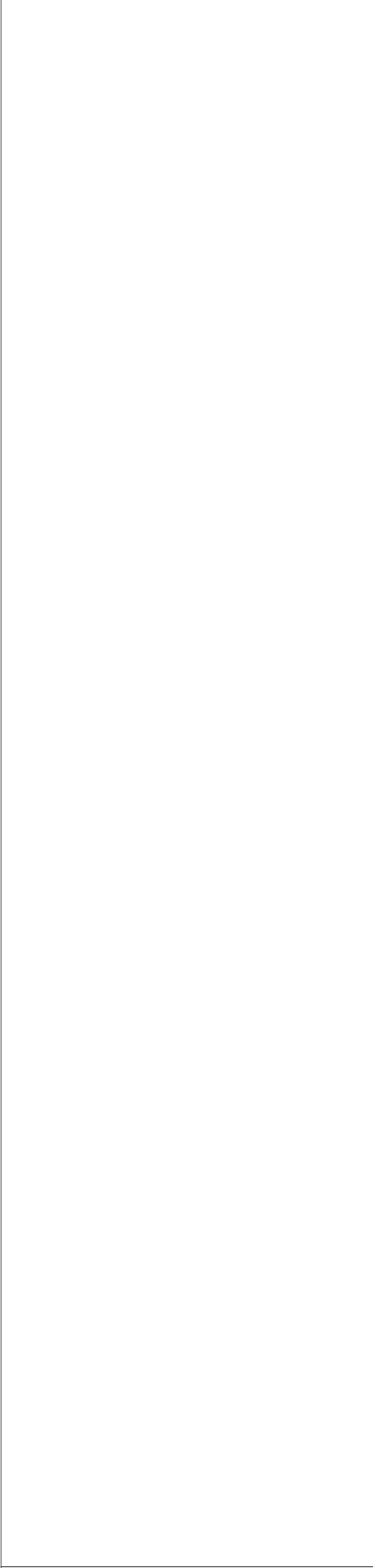
KOFFLER STUDENT CENTER

BAHEN (BCIT)



CONSTRUCTOR 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.

REVISION		
NO.	DATE	DESCRIPTION
1	2023-01-31	ISSUED FOR BID



SEAL :



PROJECT:
HEALTH AND WELLNESS
CENTRE RENOVATION AT
KOFFLER

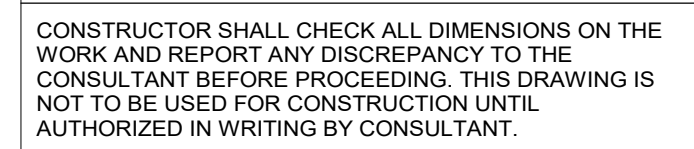
214 COLLEGE ST.
TORONTO, ON M5T 3A1

SHEET CONTENTS:
BAS ARCHITECTURE DIAGRAM

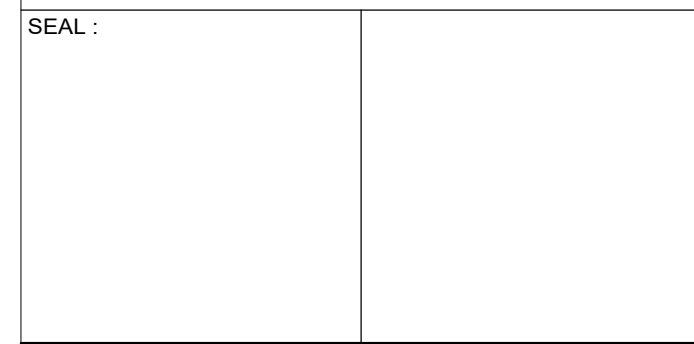
PROJECT NUMBER: 21590.003			
DRAWING SCALE: N.T.S.			
DRAWN BY: AS	CHECKED BY: Checker	DATE: 2024-02-08	
SHEET NO.:		REV.:	

TM-0.10

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REVISION		
NO.	DATE	DESCRIPTION
1	2024-10-04	ISSUED FOR 50% REVIEW
2	2024-11-01	PROGRESS ISSUANCE
3	2024-11-14	ISSUED FOR PERMIT
4	2024-12-04	ISSUED FOR F&S REVIEW
5	2025-01-24	ISSUED FOR PEER REVIEW
6	2025-01-31	ISSUED FOR BID



UNIVERSITY OF
TORONTO

PROJECT :
HEALTH AND WELLNESS
CENTRE RENOVATION AT
KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :

**BASEMENT - PLUMBING AND
PIPING LAYOUT**

PROJECT NUMBER : 21590.003		
DRAWING SCALE : 1:100		
DRAWN BY : AS	CHECKED BY : TS/DC	DATE: 2024-02-08

TM-B.2

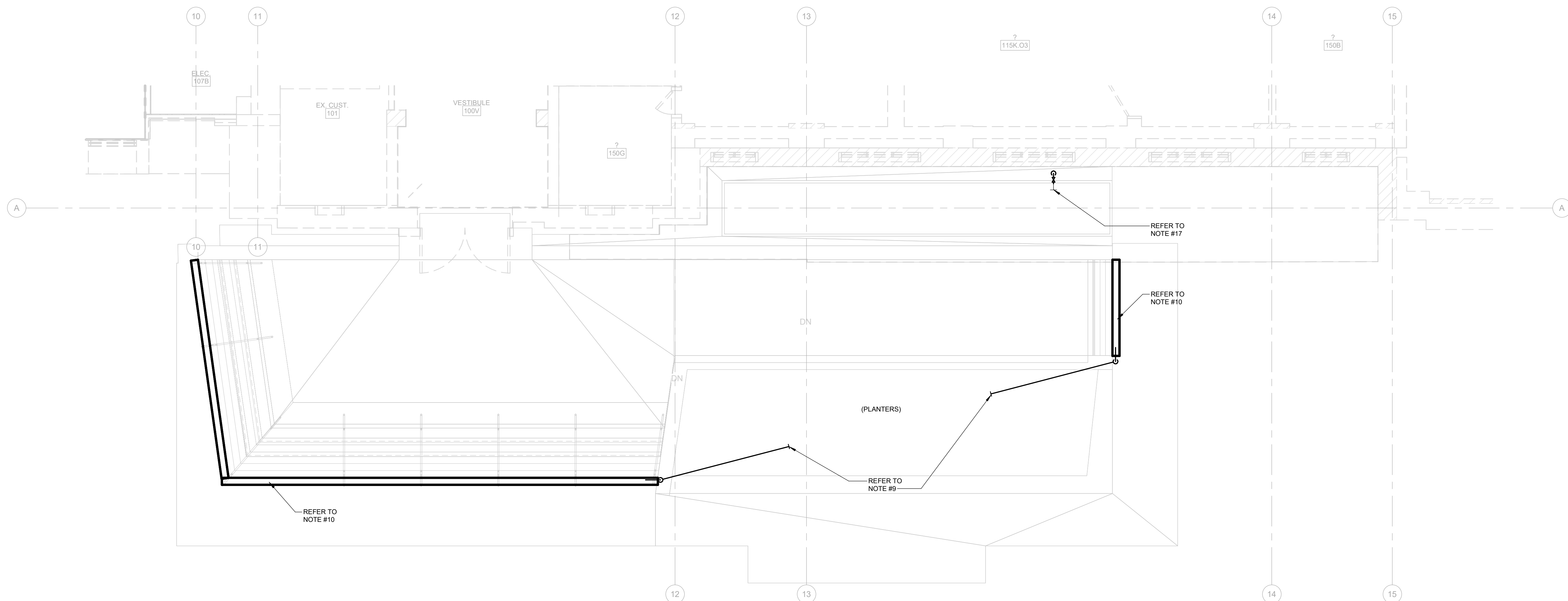
Floor	Item Description	length (inches)	width (inches)	depth (inches)	volume (cu in)	Factor to convert volume to gallons	Item Gallons - Item Fixture Units or Calculated Gallons	120 ⁴ and 13
1	Sink Compartment 1	14	13	8	1456	231	23	0.5
1	Sink Compartment 2	14	13	8	1456	231	23	0.5
								1.1
Conversion 1 L/s = 0.063 GPM								0.1
								16.9

*1: Total floor drains (i.e., 3 floor drain * 2.31 to convert to gallons)
 *2: Enter unit gallon in column H if/when volumes do not apply
 *3: Drainage Load - 75% of Maximum Discharge (Dishes Displace 25% of the water in sink)
 *4: Drain Down Time 120 (seconds) = $(0.75)(12^3 \cdot 3.785/120)$ where 3.785 convert gallons to litres and 120 is the drain down time
 *5: Drain Down Time 60 (seconds) = $(0.75)(12^3 \cdot 3.785/60)$ where 3.785 convert gallons to litres and 60 is the drain down time

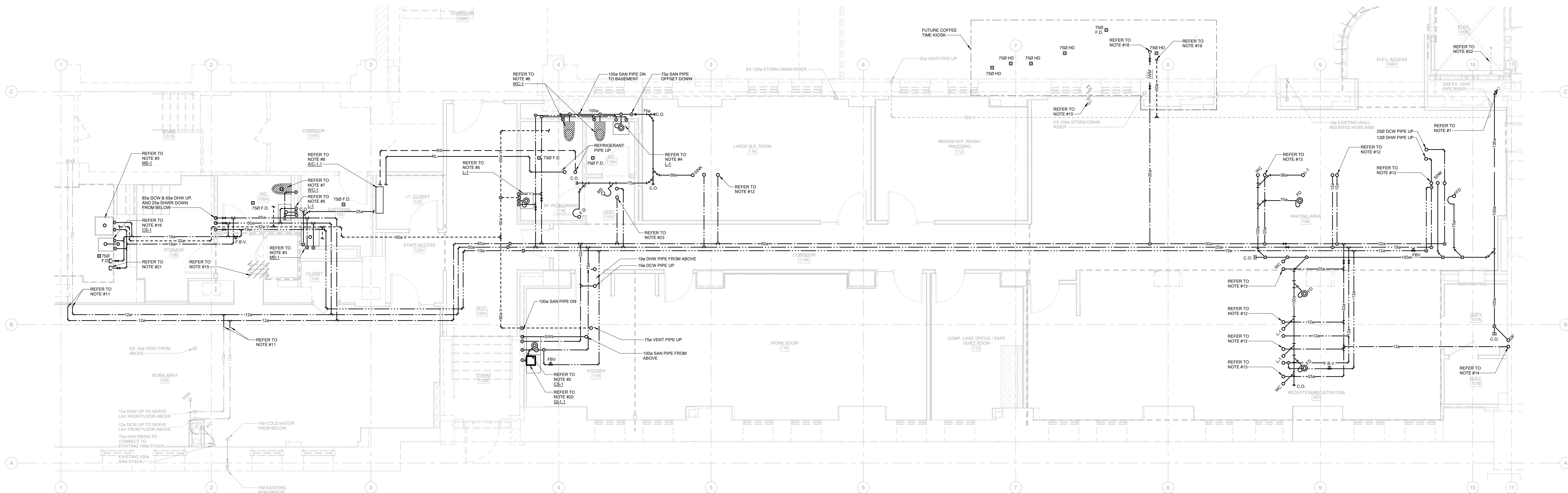
1. DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. DETERMINE THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS BASED ON SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT.
2. READ FLOOR PLANS 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.
3. VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
4. REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

[illegible]

NO.	DATE	DESCRIPTION
1	2024-10-04	ISSUED FOR 50% REVIEW
2	2024-11-01	PROGRESS ISSUANCE
3	2024-11-14	ISSUED FOR PERMIT
4	2024-12-04	ISSUED FOR F&S REVIEW
5	2025-01-24	ISSUED FOR PEER REVIEW
6	2025-01-31	ISSUED FOR BID



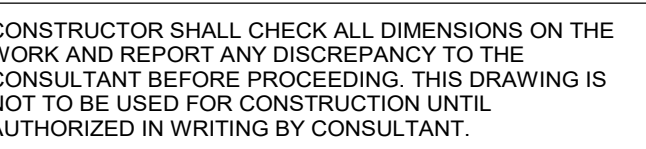
2 ENLARGED BUILDING EXTERIOR PLUMBING PLAN
TM-1.2 1:50



1 GROUND FLOOR PLAN
TM-1.2 1:50

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2. READ FLOOR PLANS IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLAN TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
3. VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
4. REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

1. CAP AND REMOVE EXISTING 50% VENT LINE AS CLOSE TO MAIN SOURCE AS POSSIBLE. ALLOW FOR REMOVAL OF AN ADDITIONAL 5.0 METERS OF PIPING THAN SHOWN ON DRAWING.
2. CAP AND REMOVE EXISTING 38% SANITARY DRAIN AS CLOSE TO MAIN SOURCE AS POSSIBLE. ALLOW FOR REMOVAL OF AN ADDITIONAL 5.0 METERS OF PIPING THAN SHOWN ON DRAWING.
3. CAP AND REMOVE EXISTING 75% SANITARY DRAIN AS CLOSE TO MAIN SOURCE AS POSSIBLE. ALLOW FOR REMOVAL OF AN ADDITIONAL 5.0 METERS OF PIPING THAN SHOWN ON DRAWING.
4. CAP AND REMOVE EXISTING 75% SANITARY DRAIN COMPLETE WITH ASSOCIATED T-PIPS AND SANITARY DRAINAGE IN THE CEILING PLenum OF 2ND FLOOR LOBBY. PIPING TO BE TERMINATED AS CLOSE TO MAIN SOURCE AS POSSIBLE. ALLOW FOR REMOVAL OF AN ADDITIONAL 5.0 METERS OF PIPING NOT SHOWN ON THE DRAWING.
5. REMOVE EXISTING SINK AND FIXTURES, CAP AND REMOVE ALL ASSOCIATED SERVICES, HANGERS AND SUPPORTS. CAP AND REMOVE AS CLOSE TO SOURCE AS POSSIBLE. ALLOW FOR REMOVAL OF 5.0 METERS OF PIPING OF EACH SERVICE.
6. REMOVE EXISTING CEILING MOUNTED WATER CHILLER AND ASSOCIATED APPURTENANCES (DRIP PAN, PIPING, VALVES) AND CAP AS CLOSE TO MAIN SOURCE AS POSSIBLE. ALLOW FOR REMOVAL OF 5.0 METERS OF PIPING DISCONNECTED BY ELECTRICAL DIVISION.



REVISION		
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PROJECT :
HEALTH AND WELLNESS
CENTRE RENOVATION AT
KOFFLER

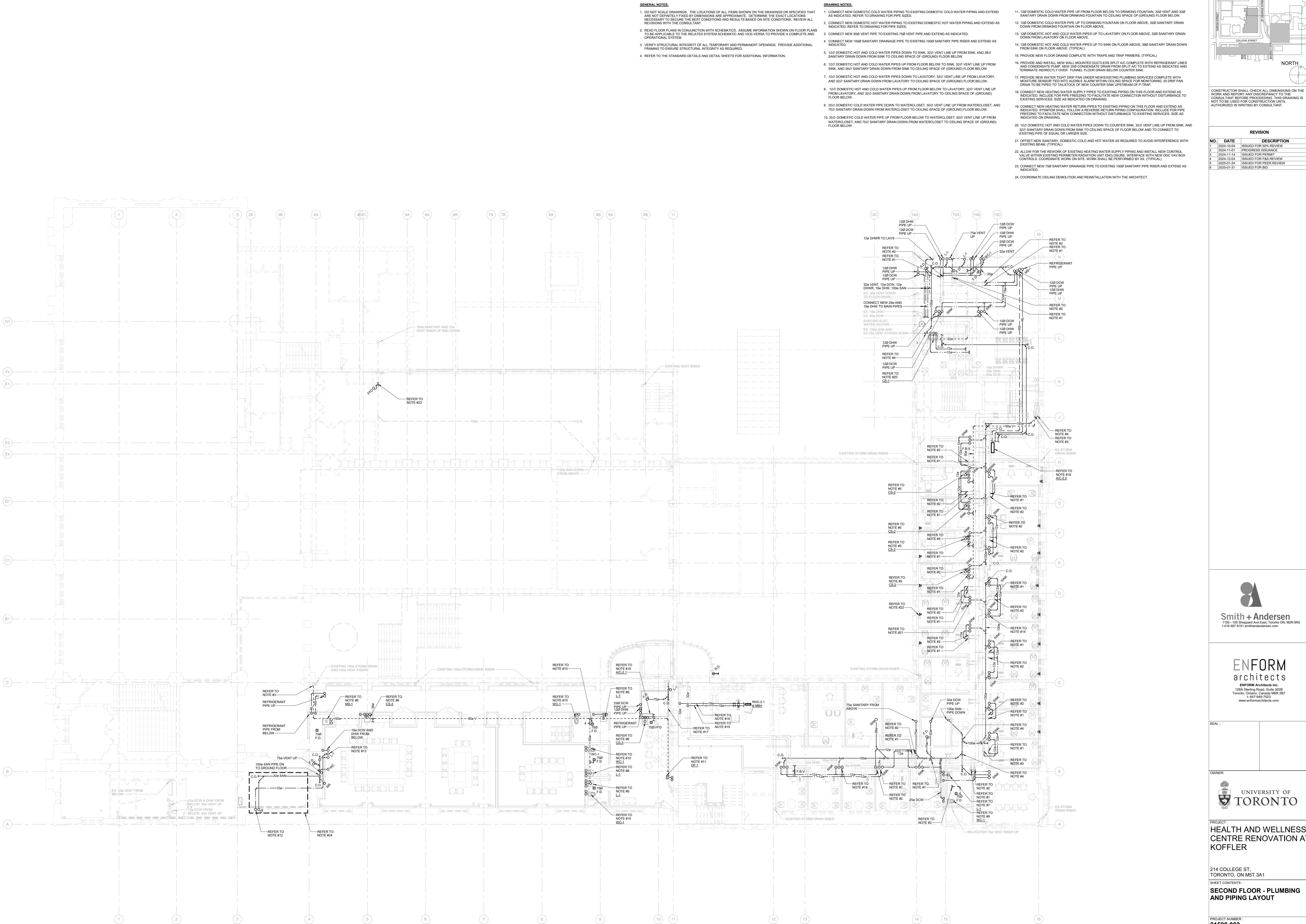
14 COLLEGE ST.
TORONTO, ON M5T 3A1

SHEET CONTENTS :

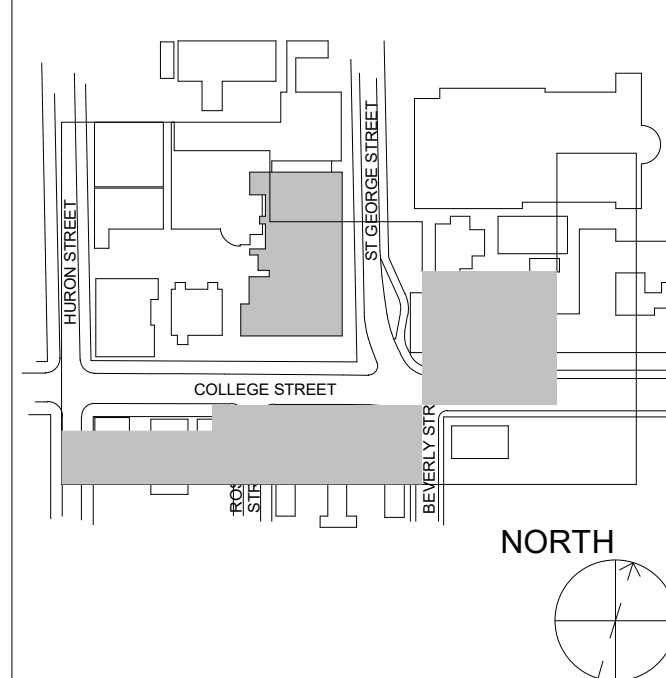
**SECOND FLOOR - PLUMBING
AND PIPING DEMOLITION
LAYOUT**

PROJECT NUMBER : 1590.003		
DRAWING SCALE : :100		
DRAWN BY : S	CHECKED BY : RC/DC	DATE: 2024-02-08

TM-2.2.1 5



KEY PLAN:



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5	2025-01-24	ISSUED FOR PEER REVIEW
6	2025-01-31	ISSUED FOR BID

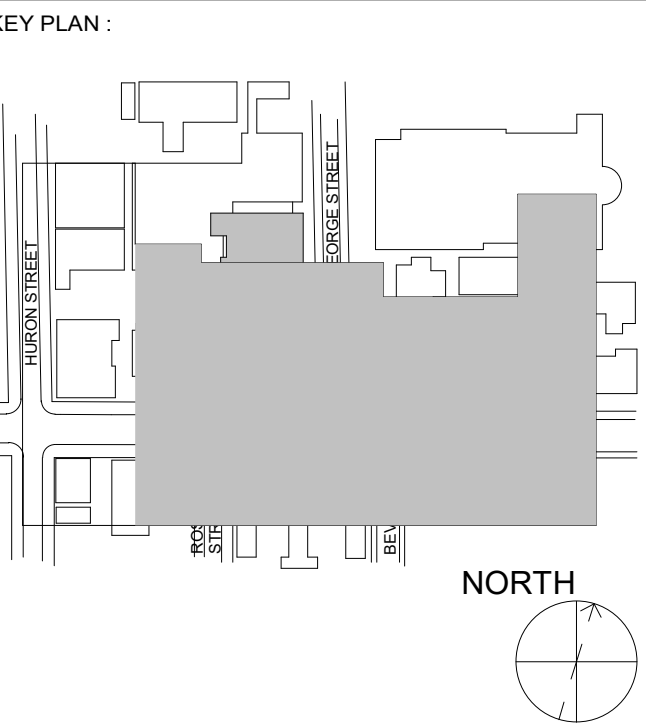
24. COORDINATE CEILING DEMOLITION AND REINSTALLATION WITH THE ARCHITECT.

REVISION		
NO.	DATE	DESCRIPTION
1	2024-10-04	ISSUED FOR 50% REVIEW
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4	2024-12-04	ISSUED FOR F&S REVIEW
5	2025-01-24	ISSUED FOR PEER REVIEW



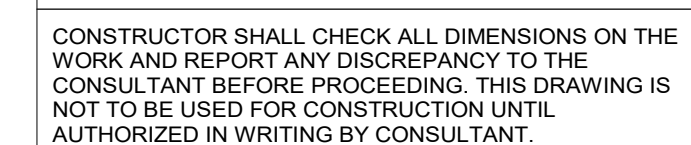
SEAL :	
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PROJECT NUMBER :		
21590.003		
DRAWING SCALE :		
1:100		
DRAWN BY :	CHECKED BY :	DATE:
AS	RC/DC	2024-02-08



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	2025-01-31	ISSUED FOR BID



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5	2025-01-24	ISSUED FOR PEER REVIEW
6	2025-01-31	ISSUED FOR BID



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PROJECT :
HEALTH AND WELLNESS
CENTRE RENOVATION AT
KOFFLER

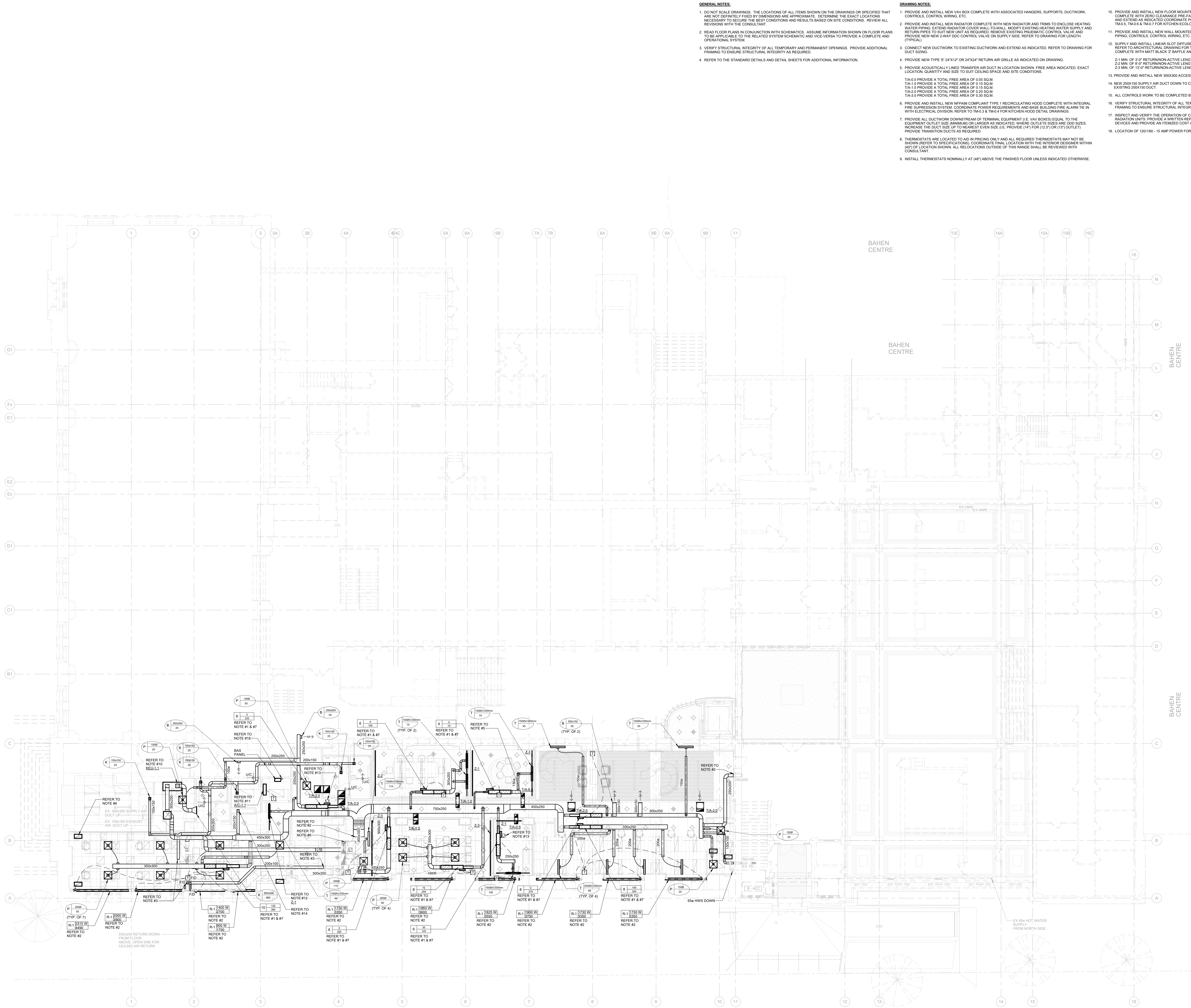
214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :

**GROUND FLOOR - H.V.A.C.
DEMOLITION LAYOUT**

PROJECT NUMBER : 21590.003		
DRAWING SCALE : 1:100		
DRAWN BY : AS	CHECKED BY : RC/DC	DATE: 2024-02-08

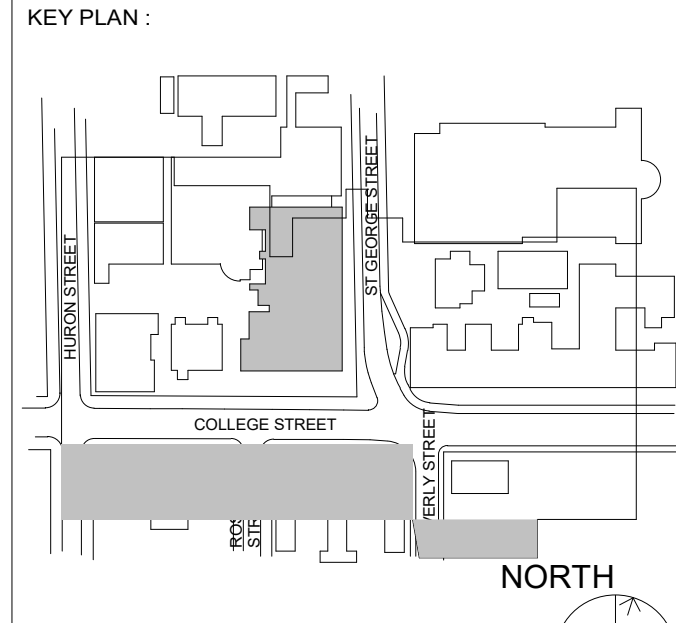
SHEET NO :	REV
TM-1.1	6



- GENERAL NOTES:**

 1. DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT ARE NOT EXPLICITLY FIXED BY DIMENSIONS ARE APPROXIMATE. DETERMINE THE EXACT LOCATIONS NECESSARY TO REQUIRE THE BEST CONDITIONS AND RESULTS BASED ON SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT.
 2. READ FLOOR PLANS 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.
 3. VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
 4. REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.
- DRAWING NOTES:**

 1. PROVIDE AND INSTALL NEW VAV BOX COMPLETE WITH ASSOCIATED HANGERS, SUPPORTS, DUCTWORK, CONTROLS, CONTROL WIRING, ETC.
 2. PROVIDE AND INSTALL NEW RADIATOR COMPLETE WITH NEW RADIATOR AND TRIMS TO ENCLOSE HEATING WATER PIPING. EXTEND RADIATOR COVER WALL TOWARD MODIFY EXISTING HEATING WATER SUPPLY AND RETURN PIPES TO SUIT NEW UNIT AS REQUIRED. REMOVE EXISTING PNEUMATIC CONTROL VALVE AND PROVIDE NEW NEW 2-WAY DDC CONTROL VALVE ON SUPPLY SIDE. REFER TO DRAWING FOR LENGTH. (TYPICAL)
 3. CONNECT NEW DUCTWORK TO EXISTING DUCTWORK AND EXTEND AS INDICATED. REFER TO DRAWING FOR DUCT SIZING.
 4. PROVIDE NEW TYPE 'E' 24"x12" OR 24"x24" RETURN AIR GRILLE AS INDICATED ON DRAWING.
 5. PROVIDE ACOUSTICALLY LINED TRANSFER AIR DUCT IN LOCATION SHOWN. FREE AREA INDICATED. EXACT LOCATION, QUANTITY AND SIZE TO SUIT CEILING SPACE AND SITE CONDITIONS.
T/A-0.5 PROVIDE A TOTAL FREE AREA OF 0.03 SQ.M.
T/A-1.5 PROVIDE A TOTAL FREE AREA OF 0.15 SQ.M.
T/A-1.5 PROVIDE A TOTAL FREE AREA OF 0.15 SQ.M.
T/A-2.0 PROVIDE A TOTAL FREE AREA OF 0.25 SQ.M.
T/A-3.0 PROVIDE A TOTAL FREE AREA OF 0.30 SQ.M.
 6. PROVIDE AND INSTALL NEW NFPA-KI COMPLIANT TYPE 1 RECIRCULATING HOOD COMPLETE WITH INTEGRAL FIRE SUPPRESSION SYSTEM. COORDINATE POWER REQUIREMENTS AND BASE BUILDING FIRE ALARM TIE IN WITH ELECTRICAL DIVISION. REFER TO TMA-0.3 & TMA-0.4 FOR KITCHEN HOOD DETAIL DRAWINGS.
 7. PROVIDE ALL DUCTWORK DOWNSTREAM OF TERMINAL EQUIPMENT (I.E. VAV BOXES) EQUAL TO THE EQUIPMENT OUTLET SIZE. MINIMUM OR LARGER AS INDICATED. WHERE OUTLET SIZES ARE 0.00 SIZES, INCREASE THE DUCT SIZE UP TO NEAREST EVEN SIZE (I.E. PROVIDE (14") FOR (12.5") OR (15") OUTLET). PROVIDE TRANSITION DUCTS AS REQUIRED.
 8. THERMOSTATS ARE LOCATED TO AID IN PRICING ONLY AND ALL REQUIRED THERMOSTATS MAY NOT BE SHOWN (REFER TO SPECIFICATIONS). COORDINATE FINAL LOCATION WITH THE INTERIOR DESIGNER WITHIN 90° OF LOCATION SHOWN. ALL RELOCATIONS OUTSIDE OF THIS RANGE SHALL BE REVIEWED WITH CONSULTANT.
 9. INSTALL THERMOSTATS NORMALLY AT (48") ABOVE THE FINISHED FLOOR UNLESS INDICATED OTHERWISE.
 10. PROVIDE AND INSTALL NEW FLOOR MOUNTED RECIRCULATING SELF-CONTAINED KITCHEN ECOLOGY UNIT. 22" RADIATOR WITH 2800 CLEARANCE PRE-FABRICATED PRE-FAB COMPLIANT KITCHEN EXHAUST DUCTWORK AND EXTEND AS INDICATED COORDINATE POWER REQUIREMENTS WITH ELECTRICAL DIVISION. REFER TO TMA-0.3, TMA-0.4 & TMA-0.5 FOR KITCHEN ECOLOGY DRAWINGS.
 11. PROVIDE AND INSTALL NEW WALL MOUNTED SPLIT A/C UNIT COMPLETE WITH ASSOCIATED REFRIGERANT PIPING, CONTROLS, CONTROL WIRING, ETC.
 12. SUPPLY AND INSTALL LINEAR SLOT DIFFUSERS WITHIN CONTINUOUS ARCHITECTURAL SLOT. PROVIDE REFER TO ARCHITECTURAL DRAWING FOR TOTAL SLOT LENGTH. NON-ACTIVE RETURN LENGTH TO BE COMPLETE WITH MATT BLACK 2" BAFFLE AND A MINIMUM NON-ACTIVE LENGTH TO BE:
Z-1 MIN. OF 3'-0" RETURN-NON-ACTIVE LENGTH
Z-2 MIN. OF 3'-0" RETURN-NON-ACTIVE LENGTH
Z-3 MIN. OF 15'-0" RETURN-NON-ACTIVE LENGTH
 13. PROVIDE AND INSTALL NEW 300X300 ACCESS PANEL.
 14. NEW 200X150 SUPPLY AIR DUCT DOWN TO CEILING SPACE OF BASEMENT LEVEL BELOW AND CONNECT TO EXISTING 200X150 DUCT.
 15. ALL CONTROLS WORK TO BE COMPLETED BY BASE BUILDING CONTROLS CONTRACTOR.
 16. VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
 17. INSPECT AND VERIFY THE OPERATION OF CONTROL VALVES AND THERMOSTAT FOR EXISTING PERIMETER RADIATION UNITS. PROVIDE A WRITTEN REPORT IDENTIFYING ALL INOPERATIONAL OR DAMAGED CONTROL DEVICES AND PROVIDE AN ITEMIZED COST ASSOCIATED WITH REPAIR OR REPLACEMENT AS REQUIRED.
 18. LOCATION OF 120V/60 - 15 AMP POWER FOR CONTROLS.



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REVISION	
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1	2024-10-01 ISSUED FOR 50% REVIEW
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5	2025-01-24 ISSUED FOR PEER REVIEW
6	2025-01-31 ISSUED FOR BID



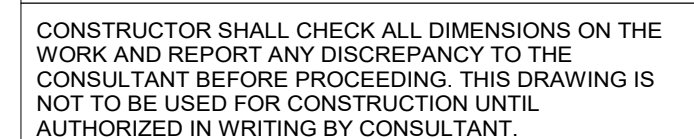
SEAL:



PROJECT:
HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFER

214 COLLEGE ST.
TORONTO, ON M5T 3A1
SHEET CONTENTS:
GROUND FLOOR - H.V.A.C. LAYOUT

PROJECT NUMBER: 21590.003	DATE: 2024-02-08
DRAWING SCALE: 1:100	CHECKED BY: RC/DC
DRAWN BY: AS	DATE: 2024-02-08
SHEET NO.: TM-1.3	REV: 6



REVISION		
NO.	DATE	DESCRIPTION
1	2024-10-04	ISSUED FOR 50% REVIEW
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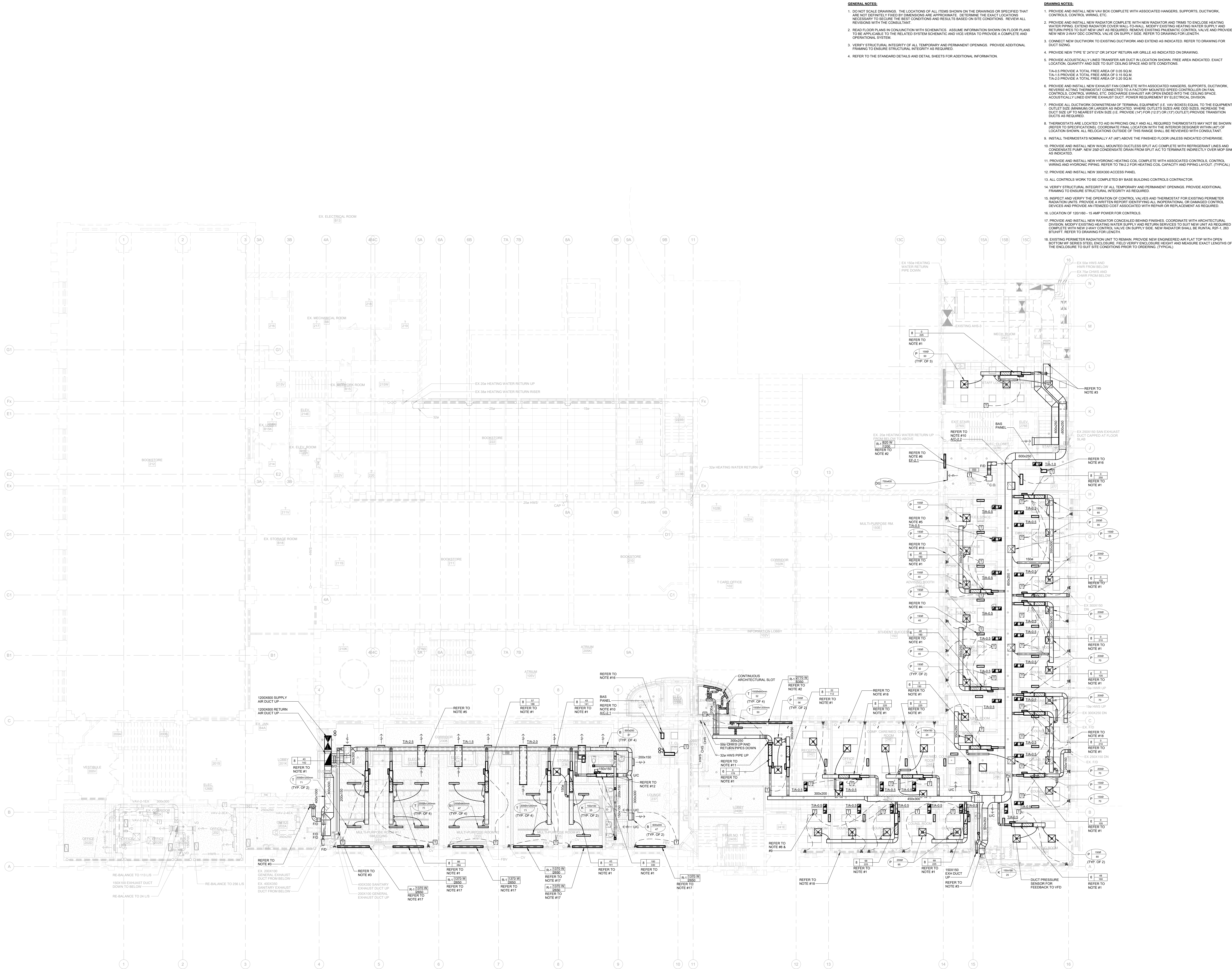
PROJECT :
HEALTH AND WELLNESS
CENTRE RENOVATION AT
KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :

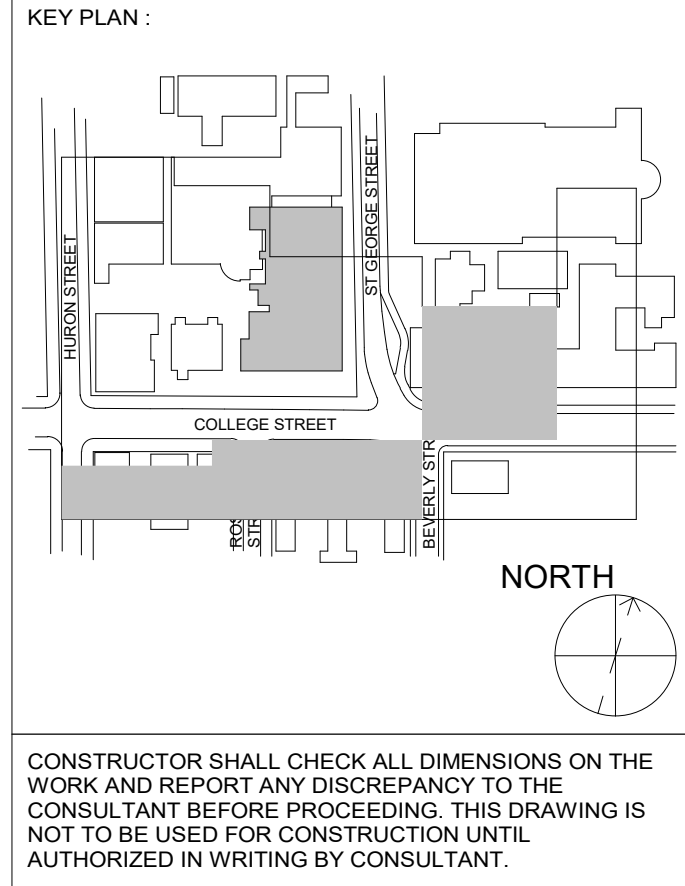
**SECOND FLOOR - H.V.A.C.
DEMOLITION LAYOUT**

PROJECT NUMBER :			
21590.003			
DRAWING SCALE :			
1:100			
DRAWN BY :	CHECKED BY :	DATE:	
AS	RC/DC	2024-02-08	
SHEET NO :			REV :
TM-2.1			6



- GENERAL NOTES:**
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 - REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

- DRAWING NOTES:**
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 - PROVIDE AND INSTALL NEW RADIATOR COMPLETE WITH NEW RADIATOR AND TRIMS TO ENCLOSE HEATING WATER PIPING. EXTEND RADIATOR COVER WALL-TO-WALL. MODIFY EXISTING HEATING WATER SUPPLY AND RETURN PIPES TO SUIT NEW UNIT AS REQUIRED. REMOVE EXISTING PNEUMATIC CONTROL VALVE AND PROVIDE NEW NEW 2-WAY OSC. CONTROL VALVE ON SUPPLY SIDE. REFER TO DRAWING FOR LENGTH.
 - CONNECT NEW DUCTWORK TO EXISTING DUCTWORK AND EXTEND AS INDICATED. REFER TO DRAWING FOR DUCT SIZING.
 - PROVIDE NEW TYPE "E" 3"X12" OR 24"X24" RETURN AIR GRILLE AS INDICATED ON DRAWING.
 - PROVIDE ACOUSTICALLY LINED TRANSFER AIR DUCT IN LOCATION SHOWN. FREE AREA INDICATED. EXACT LOCATION, QUANTITY AND SIZE TO SUIT CEILING SPACE AND SITE CONDITIONS.
TIA-3 PROVIDE A TOTAL FREE AREA OF 0.95 SQ. M.
TIA-15 PROVIDE A TOTAL FREE AREA OF 0.15 SQ. M.
TIA-23 PROVIDE A TOTAL FREE AREA OF 0.20 SQ. M.
 - PROVIDE AND INSTALL NEW EXHAUST FAN COMPLETE WITH ASSOCIATED HANGERS, SUPPORTS, DUCTWORK, REVERSE ACTING THERMOSTAT CONNECTED TO A FACTORY MOUNTED SPEED CONTROLLER ON FAN CONTROLS, CONTROL WIRING, ETC. DISCHARGE EXHAUST AIR OPEN ENDED INTO THE CEILING SPACE. ACOUSTICALLY LINED ENTIRE EXHAUST DUCT. POWER REQUIREMENT BY ELECTRICAL DIVISION.
 - PROVIDE ALL DUCTWORK DOWNSTREAM OF TERMINAL EQUIPMENT (I.E. VAV BOXES) EQUAL TO THE EQUIPMENT OUTLET SIZE. MINIMUM OR LARGER AS INDICATED. WHERE OUTLET SIZES ARE ODD SIZES, INCREASE THE DUCT SIZE UP TO NEAREST EVEN SIZE (I.E. PROVIDE 14" FOR 12.5" OR 17.5" OUTLET) PROVIDE TRANSITION DUCTS AS REQUIRED.
 - THERMOSTATS ARE LOCATED TO ADJ. IN PIPING ONLY AND ALL REQUIRED THERMOSTATS MAY NOT BE SHOWN (REFER TO SPECIFICATIONS). COORDINATE FINAL LOCATION WITH THE INTERIOR DESIGNER WITHIN 40" OF LOCATION SHOWN. ALL RELOCATIONS OUTSIDE OF THIS RANGE SHALL BE REVIEWED WITH CONSULTANT.
 - INSTALL THERMOSTATS NORMALLY AT 48" ABOVE THE FINISHED FLOOR UNLESS INDICATED OTHERWISE.
 - PROVIDE AND INSTALL NEW WALL MOUNTED DUCTLESS SPLIT A/C COMPLETE WITH REFRIGERANT LINES AND CONDENSATE PUMP. NEW 258 CONDENSATE DRAIN FROM SPLIT A/C TO TERMINATE INDIRECTLY OVER MOP SINK AS INDICATED.
 - PROVIDE AND INSTALL NEW HYDRONIC HEATING COIL COMPLETE WITH ASSOCIATED CONTROLS, CONTROL WIRING AND HYDRONIC PIPING. REFER TO TM-2.2 FOR HEATING COIL CAPACITY AND PIPING LAYOUT. (TYPICAL)
 - PROVIDE AND INSTALL NEW 300X300 ACCESS PANEL.
 - ALL CONTROLS WORK TO BE COMPLETED BY BASE BUILDING CONTROLS CONTRACTOR.
 - VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
 - INSPECT AND VERIFY THE OPERATION OF CONTROL VALVES AND THERMOSTAT FOR EXISTING PERIMETER RADIATION UNIT. PROVIDE A WRITTEN REPORT IDENTIFYING ALL INFORMATION ON DAMAGED CONTROL DEVICES AND PROVIDE AN ITEMIZED COST ASSOCIATED WITH REPAIR OR REPLACEMENT AS REQUIRED.
 - LOCATION OF 120V/60 - 15 AMP POWER FOR CONTROLS.
 - PROVIDE AND INSTALL NEW RADIATOR CONCEALED BEHIND FINISHES. COORDINATE WITH ARCHITECTURAL DIVISION. MODIFY EXISTING HEATING WATER SUPPLY AND RETURN SERVICES TO SUIT NEW UNIT AS REQUIRED. COMPLETE WITH NEW 2-WAY CONTROL VALVE ON SUPPLY SIDE. NEW RADIATOR SHALL BE RENTAL R2F-1, 263 BTU/HRT. REFER TO DRAWING FOR LENGTHS.
 - EXISTING PERIMETER RADIATION UNIT TO REMAIN. PROVIDE NEW ENGINEERED AIR FLAT TOP WITH OPEN BOTTOM W/ SERIES STEEL ENCLOSURE. FIELD VERIFY ENCLOSURE HEIGHT AND MEASURE EXACT LENGTHS OF THE ENCLOSURE TO SUIT SITE CONDITIONS PRIOR TO ORDERING. (TYPICAL)



REVISION		
NO.	DATE	DESCRIPTION
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2	2024-11-01	PROGRESS ISSUANCE
3	2024-11-14	ISSUED FOR PERMIT
4	2024-12-04	ISSUED FOR FAS REVIEW
5	2025-01-24	ISSUED FOR PEER REVIEW
6	2025-01-31	ISSUED FOR BID

CONSTRUCTOR 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.

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CENTRE RENOVATION AT
KOFFLER

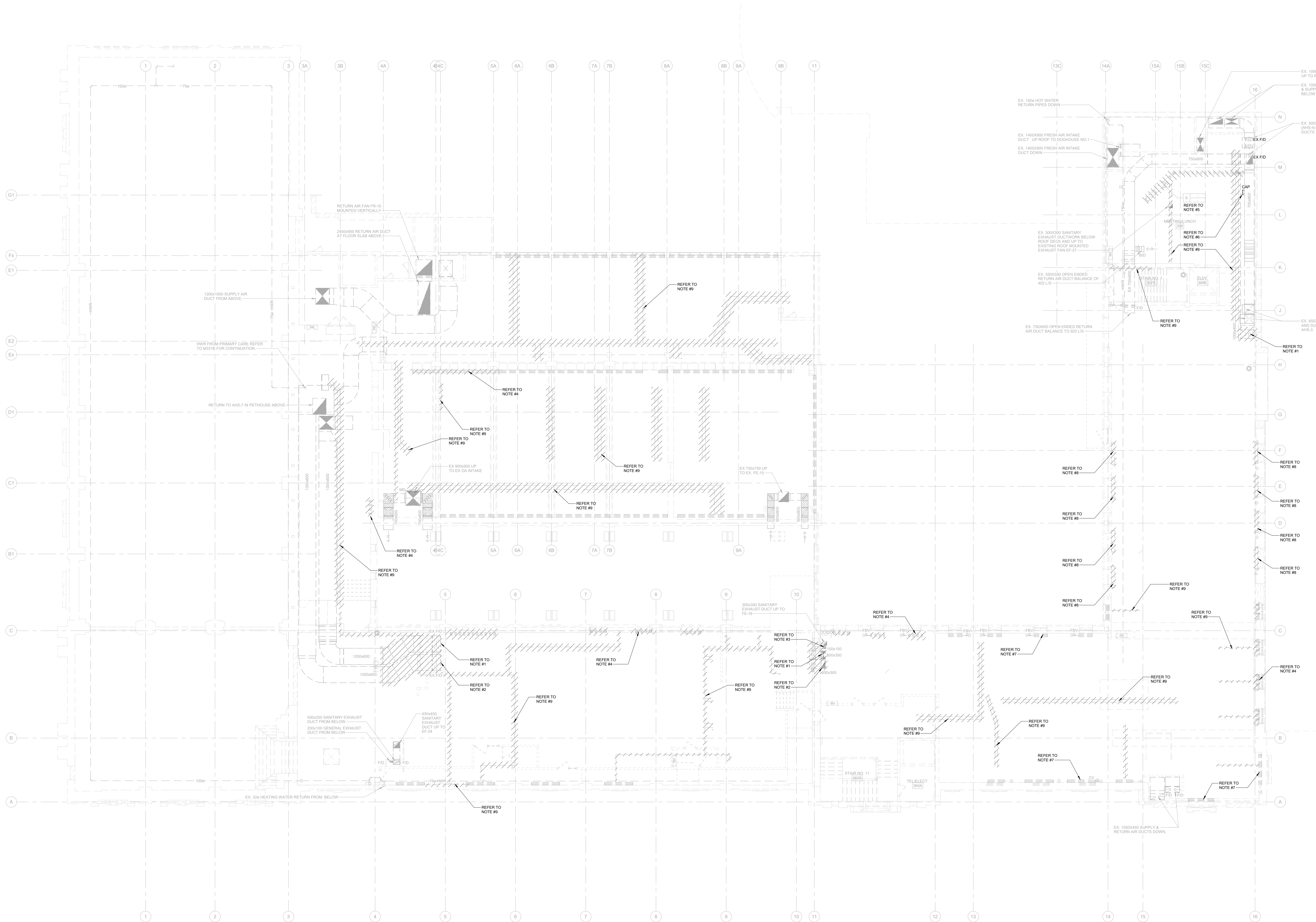
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TORONTO, ON M5T 3A1

SHEET CONTENTS:
SECOND FLOOR - H.V.A.C.
LAYOUT

PROJECT NUMBER:
21590.003
DRAWING SCALE:
1:100

DRAWN BY:
AS
CHECKED BY:
RC/DC
DATE:
2024-02-08

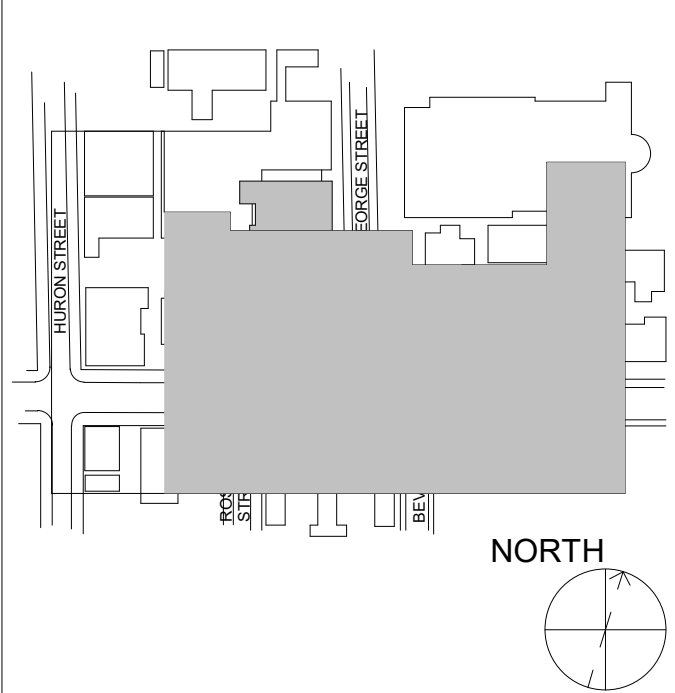
SHEET NO.:
TM-2.3
REV: 6



- 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 LOCATION NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS BASED ON SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT.
 - READ FLOOR PLANS 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:**
- REMOVE AND CAP EXISTING SUPPLY AIR DUCT COMPLETE WITH FIRE DAMPER AS INDICATED. REFER TO DRAWING FOR DUCT SIZING.
 - REMOVE AND CAP EXISTING RETURN AIR DUCT COMPLETE WITH FIRE DAMPER AS INDICATED. REFER TO DRAWING FOR DUCT SIZING.
 - REMOVE AND CAP EXISTING EXHAUST AIR DUCT DUCT UP TO MECHANICAL PENTHOUSE ABOVE. REFER TO DRAWING FOR DUCT SIZING. INCLUDE IN THE TENDER PRICE TO PATCH AND REPAIR AS REQUIRED WITHIN MECHANICAL PENTHOUSE ABOVE.
 - REMOVE EXISTING PERIMETER RADIATION UNIT COMPLETE WITH ASSOCIATED PNEUMATIC CONTROL VALVE AND PNEUMATIC TUBING. CAP HEATING WATER SUPPLY AND RETURN PIPING AT FLOOR LEVEL (TYPICAL).
 - REMOVE EXISTING VAV BOX COMPLETE WITH ALL EXISTING HANGERS, SUPPORTS, CONTROLS, ETC. REFER TO DRAWING FOR BOX SIZE.
 - REMOVE EXISTING DUCT MOUNTED SUPPLY AIR REGISTER AND CAP DUCTWORK AS INDICATED.
 - EXISTING PERIMETER RADIATION UNIT TO REMAIN. REMOVE EXISTING COVER AND PROVIDE NEW ENGINEERED AIR PLAT TOP WITH OPEN BOTTOM BY SERIES STEEL ENCLOSURE. FIELD VERIFY ENCLOSURE HEIGHT AND MEASURE EXACT LENGTHS OF THE ENCLOSURE TO SUIT SITE CONDITIONS PRIOR TO ORDERING.
 - REMOVE EXISTING VERTICAL FAN COIL UNIT. CAP HYDRONIC SUPPLY AND RETURN PIPING AS CLOSE TO SOURCE AS POSSIBLE.
 - ALL GAV FOR THE REMOVAL OF EXISTING ABANDONED PNEUMATIC LINES AS INDICATED AND CAP AS CLOSE TO SOURCE AS POSSIBLE. (TYPICAL).

KEY PLAN:



CONSTRUCTOR 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.

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**HEALTH AND WELLNESS
CENTRE RENOVATION AT
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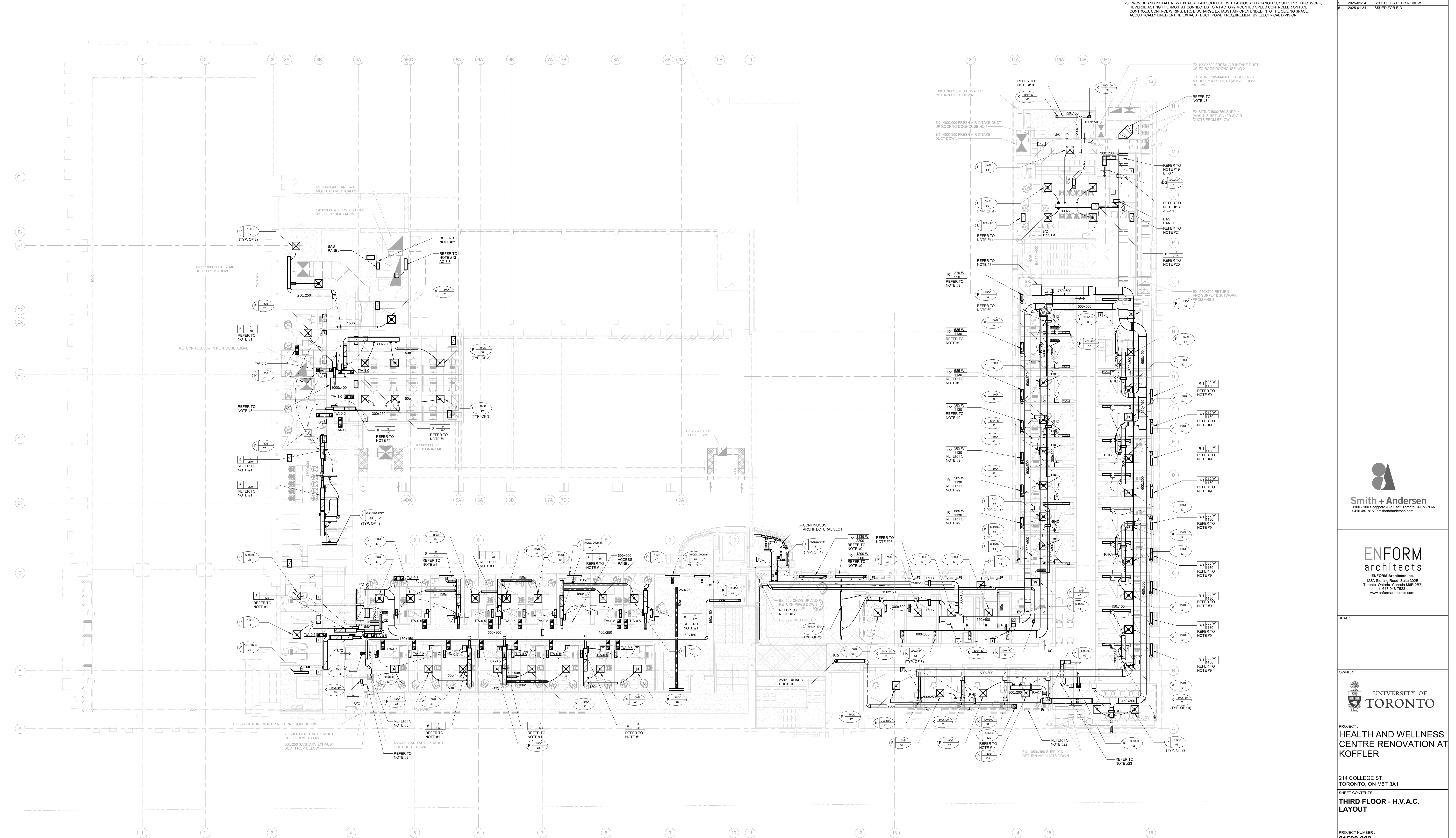
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SHEET CONTENTS:
**THIRD FLOOR - H.V.A.C.
DEMOLITION LAYOUT**

PROJECT NUMBER:
21590.003
DRAWING SCALE:
1:100
DRAWN BY:
AS
CHECKED BY:
RC/DC
DATE:
2024-02-08

SHEET NO.:
TM-3.1
REV:
6

RADIATOR SCHEDULE				
TAG	MAKE	MODEL No.	CAPACITY (BTU/H/FT)	AVERAGE WATER TEMPERATURE AWT (F)
R-1	RUNTAL	R2F-1	537	160
				LENGTH (IN)
				REFER TO FLOOR PLANS
1. PROVIDE TRIM COVER TO COMPLETELY COVER ASSOCIATED EXPOSED PIPING.				
2. COLOUR: WHITE				
3. PROVIDE 75 MM CLEARANCE FROM BOTTOM OF RADIATOR.				
4. RADIATOR PIPING CONFIGURATION SHALL MATCH ROUTING ON PLAN DRAWINGS.				



- GENERAL NOTES:**

 - DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT ARE NOT EXPLICITLY FIXED BY DIMENSIONS ARE APPROXIMATE. DETERMINE THE EXACT LOCATIONS NECESSARY TO REQUIRE THE BEST CONDITIONS AND RESULTS BASED ON SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT.
 - READ FLOOR PLANS 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:**

 - PROVIDE AND INSTALL NEW VAV BOX COMPLETE WITH ASSOCIATED HANGERS, SUPPORTS, DUCTWORK, CONTROLS, CONTROL WIRING, ETC.
 - PROVIDE AND INSTALL NEW HYDRONIC HEATING COIL COMPLETE WITH ASSOCIATED CONTROLS, CONTROL WIRING AND HYDRONIC PIPING. REFER TO TM-3.2 FOR HEATING COIL CAPACITY AND PIPING LAYOUT. (TYPICAL)
 - CONNECT NEW DUCTWORK TO EXISTING DUCTWORK AND EXTEND AS INDICATED. REFER TO DRAWING FOR DUCT SIZING.
 - PROVIDE NEW TYPE 'E' 24"x12" OR 24"x24" RETURN AIR GRILLE AS INDICATED ON DRAWING.
 - PROVIDE ACoustically Lined TRANSFER AIR DUCT IN LOCATION SHOWN. FREE AREA INDICATED. EXACT LOCATION, QUANTITY AND SIZE TO SUIT CEILING SPACE AND SITE CONDITIONS. TIA-0.5 PROVIDE A TOTAL FREE AREA OF 0.05 SQ.M.
 - PROVIDE ALL DUCTWORK DOWNSTREAM OF TERMINAL EQUIPMENT (I.E. VAV BOXES) EQUAL TO THE EQUIPMENT OUTLET SIZE IMMEDIATELY LARGER AS INDICATED. WHERE OUTLET SIZES ARE 4000 SIZES INCREASE THE DUCT SIZE UP TO NEAREST EVEN SIZE (I.E. PROVIDE (141) FOR (125) OR (151) OUTLET). PROVIDE TRANSITION DUCTS AS REQUIRED.
 - THERMOSTATS ARE LOCATED TO AD IN PRICING ONLY AND ALL REQUIRED THERMOSTATS MAY NOT BE SHOWN (REFER TO SPECIFICATIONS). COORDINATE FINAL LOCATION WITH THE INTERIOR DESIGNER WITHIN 400' OF LOCATION SHOWN. ALL RELOCATION OUTSIDE OF THIS RANGE SHALL BE REVIEWED WITH CONSULTANT.
 - INSTALL THERMOSTATS NOMINALLY AT (1200MM) ABOVE THE FINISHED FLOOR UNLESS INDICATED OTHERWISE.
 - PROVIDE AND INSTALL NEW RADIATOR COMPLETE WITH RADIATOR COVERS, AND TRIMS TO ENCLOSE PIPING AND EXTEND RADIATOR WALL-TO-WALL. WOODY EXISTING HEATING WATER SUPPLY AND RETURN SERVICES TO SUIT NEW UNIT AS REQUIRED COMPLETE WITH NEW 2WAY CONTROL VALVE ON SUPPLY SIDE. REFER TO DRAWING FOR LENGTH.
 - NEW SANITARY EXHAUST DUCTWORK SERVING WASHROOM TO BE ALUMINUM. THERMALLY INSULATE THE ENTIRE EXHAUST DUCT.
 - CONNECT NEW 250X250 SANITARY EXHAUST DUCT TO EXISTING 300X300 DUCT BELOW ROOF DECK AND EXTEND AS INDICATED.
 - CONNECT NEW 150X150 SANITARY EXHAUST DUCT TO EXISTING 300X300 DUCT BELOW ROOF DECK AND EXTEND AS INDICATED.
 - PROVIDE AND INSTALL NEW WALL MOUNTED DUCTLESS SPLIT A/C COMPLETE WITH REFRIGERANT LINES AND CONDENSATE PUMP. NEW 250 CONDENSATE DRAIN FROM SPLIT A/C TO TERMINATE INDIRECTLY OVER NEW 750 WIDE HUB DRAIN IN THE CEILING SPACE WHERE INDICATED ON DRAWING COMPLETE WITH AIR GAP. NEW 500 HUB DRAIN CONDENSATE LINE TO RUN INSIDE WALL CAVITY AND DOWN TO TAILSTOCK OF NEW SINK UPSTREAM OF P-TRAP.
 - COORDINATE WITH ARCHITECTURAL DIVISION TO HAVE GRILLE ABOVE PATIENT. EXTEND 250X DUCT UP TO PENTHOUSE ABOVE AS INDICATED. LABEL DUCTWORK WITH CAUTION. AIRBORNE ISOLATION ROOM EXHAUST.
 - ALL CONTROLS WORK TO BE COMPLETED BY BASE BUILDING CONTROLS CONTRACTOR.
 - VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
 - INSPECT AND VERIFY THE OPERATION OF CONTROL VALVES AND THERMOSTAT FOR EXISTING PERIMETER RADIATION UNITS. PROVIDE A WRITTEN REPORT IDENTIFYING ALL OPERATIONAL OR DAMAGED CONTROL DEVICES AND PROVIDE AN ITEMIZED COST ASSOCIATED WITH REPAIR OR REPLACEMENT AS REQUIRED.
 - EXISTING AIR HANDLING UNITS TO REMAIN. INSPECT AND VERIFY THE OPERATION OF EXISTING AHS-3, AHS-4, AHS-7. PROVIDE A WRITTEN REPORT IDENTIFYING ALL IN OPERATIONAL OR DAMAGED CONTROL DEVICES AND PROVIDE AN ITEMIZED COST ASSOCIATED WITH REPAIR OR REPLACEMENT AS REQUIRED.
 - PROVIDE AND INSTALL NEW EXHAUST FAN COMPLETE WITH ASSOCIATED HANGERS, SUPPORTS, DUCTWORK, CONTROLS, CONTROL WIRING, ETC. POWER REQUIREMENT BY ELECTRICAL DIVISION.
 - LOCATION OF 120V/60 - 15 AMP POWER FOR CONTROLS.
 - EXISTING PERIMETER RADIATION UNIT TO REMAIN. PROVIDE NEW ENGINEERED AIR FLAT TOP WITH OPEN BOTTOM W/ SERIES STEEL ENCLOSURE. FIELD VERIFY ENCLOSURE HEIGHT AND MEASURE EXACT LENGTHS OF THE ENCLOSURE TO SUIT SITE CONDITIONS PRIOR TO ORDERING.
 - PROVIDE AND INSTALL NEW EXHAUST FAN COMPLETE WITH ASSOCIATED HANGERS, SUPPORTS, DUCTWORK, REVERSE ACTING THERMOSTAT CONNECTED TO A FACTORY MOUNTED SPEED CONTROLLER ON FAN CONTROLS, CONTROL WIRING, ETC. DISCHARGE EXHAUST AIR OPEN ENDED INTO THE CEILING SPACE. ACoustically Lined ENTRY EXHAUST DUCT. POWER REQUIREMENT BY ELECTRICAL DIVISION.

KEY PLAN:

CONSTRUCTOR 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.

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PROJECT:

HEALTH AND WELLNESS CENTRE RENOVATION AT COLLEGER

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SHEET CONTENTS:

THIRD FLOOR - H.V.A.C. LAYOUT

PROJECT NUMBER:
21590.003

DRAWING SCALE:
1:100

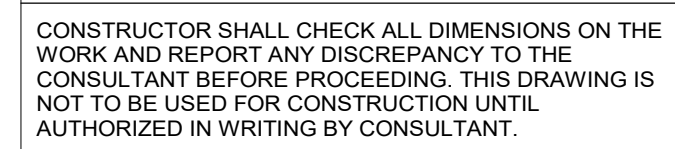
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2024-02-08

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TM-3.3

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CENTRE RENOVATION AT
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SHEET CONTENTS :

ROOF - MECHANICAL LAYOUT

PROJECT NUMBER :		
21590.003		
DRAWING SCALE :		
1:100		
DRAWN BY :	CHECKED BY :	DATE:
AS	RC/DC	2024-02-08

SHEET NO :
TM-R.3

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GROUND FLOOR - FIRE PROTECTION DEMOLITION LAYOUT

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1:100

AS	RC/DC	2024-02-08
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SHEET NO : TM-1.4.1	REV : 6
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REVISION		
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1:100		
DRAWN BY: AC	CHECKED BY: DC/DC	DATE: 2024.03.09

A map of the study area showing the location of the study site (shaded grey) relative to Huxon Street, College Street, and Huxon Avenue. A north arrow is included.

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PROJECT :
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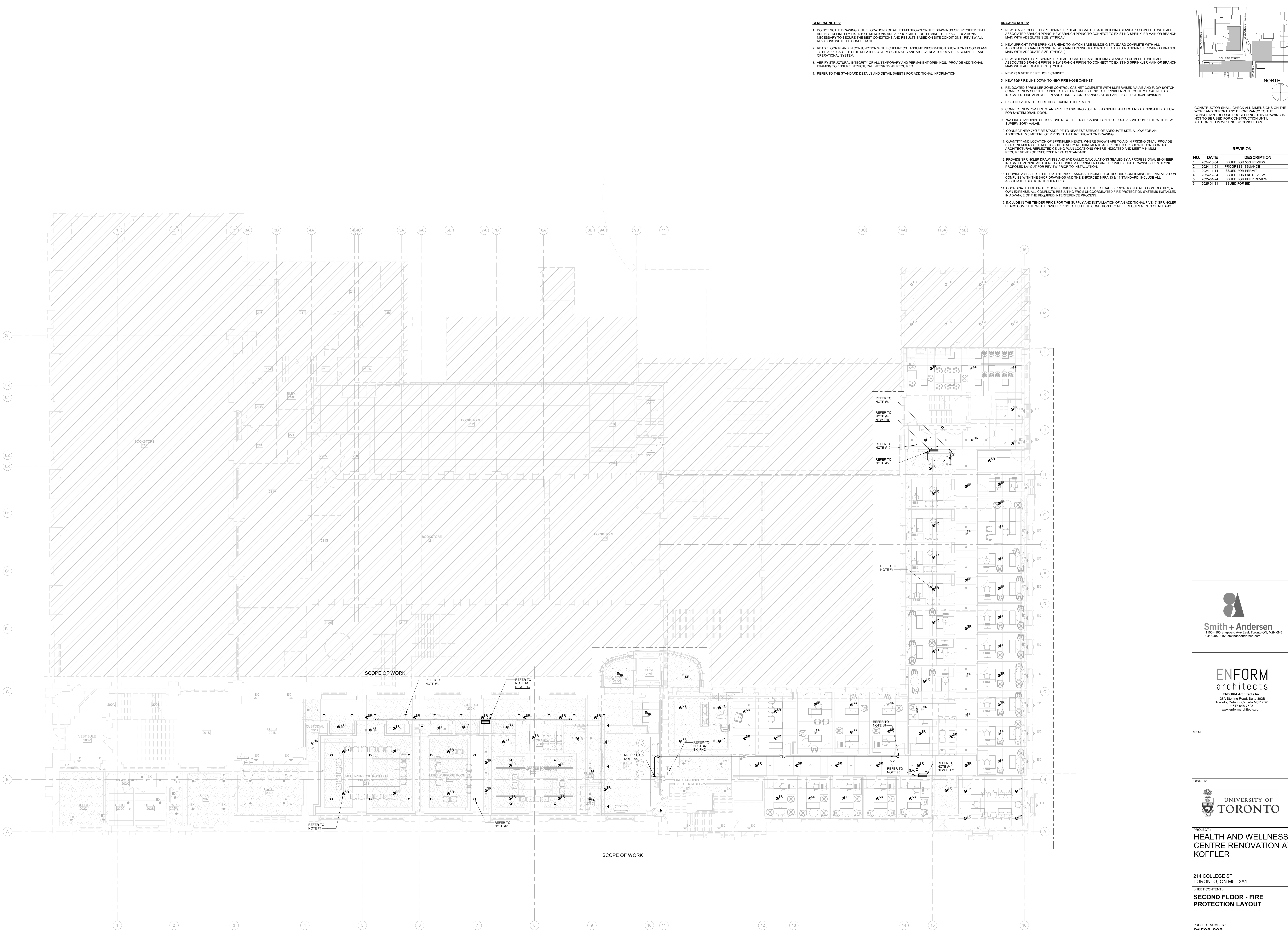
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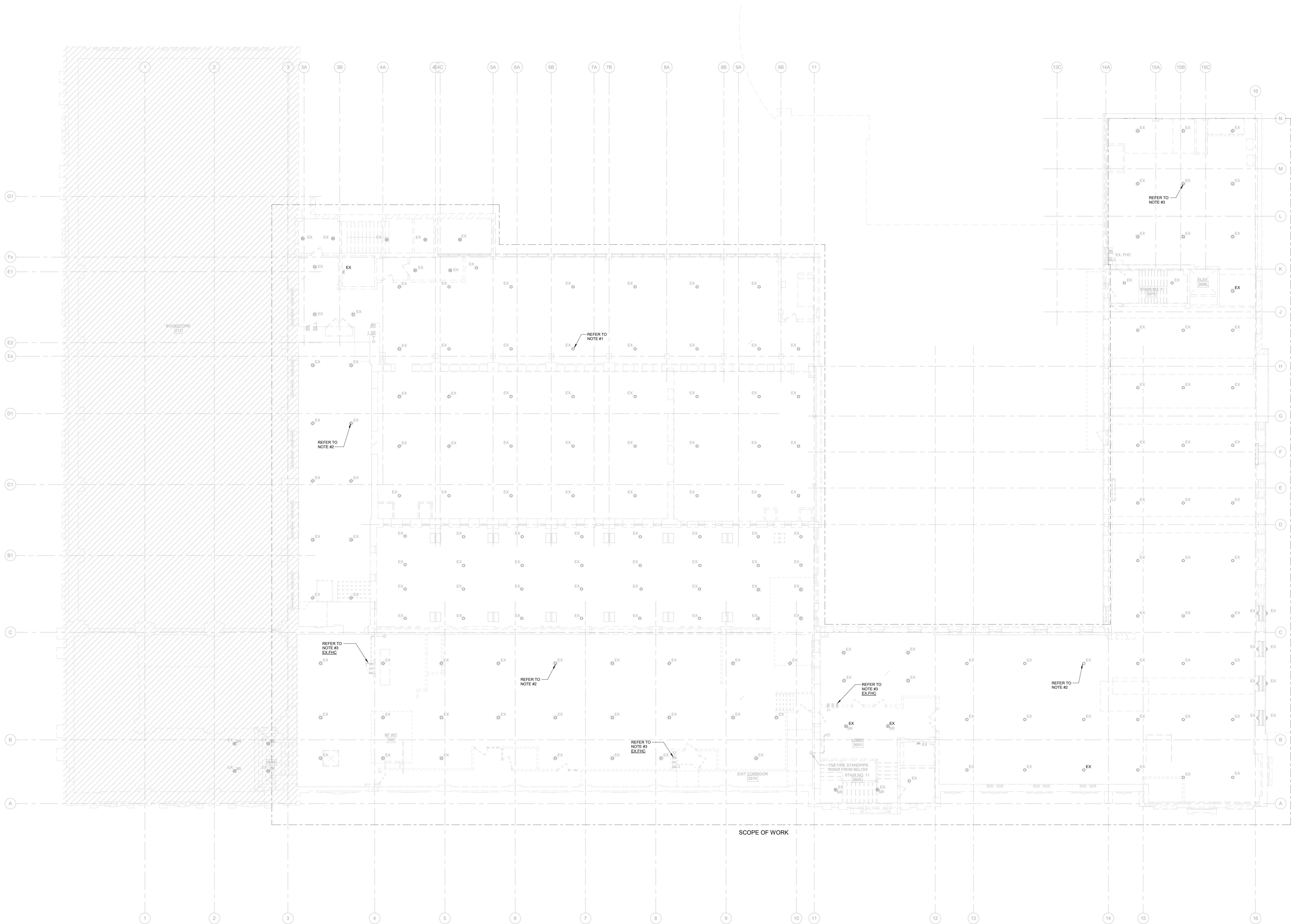
SHEET CONTENTS :

**SECOND FLOOR - FIRE
PROTECTION DEMOLITION
LAYOUT**

PROJECT NUMBER : 21590.003		
DRAWING SCALE : 1:100		
DRAWN BY : AS	CHECKED BY : RC/DC	DATE: 2024-02-08

SHEET NO : **TM-2.4.1** REV : **5**

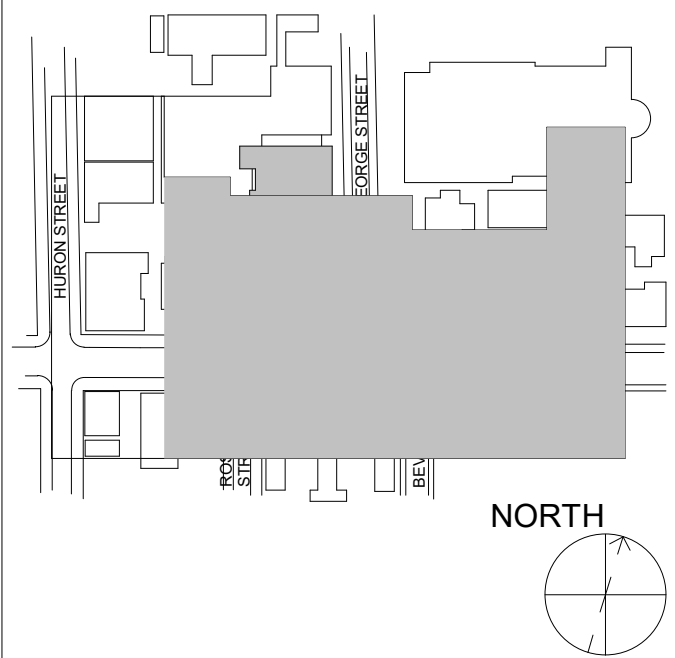




- GENERAL NOTES:**
- DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. DETERMINE THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS BASED ON SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT.
 - READ FLOOR PLANS 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:**
- EXISTING UPRIGHT TYPE SPRINKLER HEADS TO REMAIN. (TYPICAL)
 - EXISTING UPRIGHT TYPE SPRINKLER HEAD AT TRUSS LEVEL TO REMAIN. (TYPICAL)
 - REMOVE EXISTING UPRIGHT TYPE SPRINKLER HEADS. (TYPICAL)
 - REMOVE EXISTING FIRE HOSE CABINET AND CAP EXISTING 750 FIRE LINE IN THE CEILING SPACE AS INDICATED. ALLOW FOR DRAIN CROWN OF FIRE STANDPIPE RISER AND WELDING OF CAPS AT REMOVED CABINET. REMOVE ALL UNUSED PIPING FROM SITE.
 - INCLUDE IN THE TENDER FOR THE REMOVAL OF AN ADDITIONAL FIVE (5) SPRINKLER HEADS COMPLETE WITH BRANCH PIPING NOT SHOWN IN THE DRAWINGS TO SUIT SITE CONDITIONS.

KEY PLAN:



CONSTRUCTOR 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.

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PROJECT:
HEALTH AND WELLNESS
CENTRE RENOVATION AT
KOFFLER

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TORONTO, ON M5T 3A1
SHEET CONTENTS:
THIRD FLOOR - FIRE
PROTECTION DEMOLITION
LAYOUT

PROJECT NUMBER: 21590.003	
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TORONTO, ON M5T 3A1

SHEET CONTENTS :

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