GPY+
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Addendum M-2

Date: July 21, 2022

To: G. Bruce Stratton Architects

Attention: **Ms. Stephanie Kamburis**

Project: York Region Administrative Centre
4th Floor Block A, B, D & E Renovations
17250 Yonge Street
Newmarket, Ontario

Project no. 9907

Subject: Mechanical changes and/or additions

The Contractor is hereby instructed with the following changes/clarifications to the contract documents as described below. All materials and workmanship are to be as described in the contract documents unless stated otherwise.

Title: Mechanical changes. **References:** Mechanical Drawings (**Project # 9907**)

Description of Work:

MECHANICAL DRAWINGS:

1. **Drawing M-100 - Mechanical Legend, Schedule & Drawing List (Revised, Issued):**

1.1 Fan coil unit FCU-127 has been added. Fan coil unit sizes has been revised. Chilled water pipe connection has been revised to 25mm diameter. Refer to attached drawing for updated Horizontal Fan Coil Unit Schedule.
1.2 *Added notes to Wallfin Heater Schedule:* Cabinets shall only end where there is a rain water leader behind perimeter column, **and where it intersects with altos partitions, provide end caps on enclosure near wall/ partitions. Enclosure shall be accessible at all times.**
1.3 Sink 'S-1' specifications have been revised.

2. **Drawing M-101 - Schematic Diagram (Revised, Issued):**

2.1 *Detail No. 1, 2 & 3:* Chilled water & heating water pipe sizes and connections have been revised. Refer to attached drawings for new pipe sizes & connections.

3. **Drawing M-102 - Schematic Diagram (Revised, Issued):**

3.1 *Detail No. 1 & 2:* Chilled water & heating water pipe sizes and connections have been revised. Refer to attached drawings for new pipe sizes & connections been added.

4. **Drawing M-103 – Schematic Diagram (Revised, Not Issued):**

4.1 *Detail No. 4:* Title corrected to "Fan Coil Units With Cooling/ Heating (Interior Zones).

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5. Drawing M-104 – Mechanical Details (Revised, Issued):

5.1 Detail No. 2 has been revised.
5.2 Detail No. 9 has been revised.
5.3 Detail No. 16 has been added.

6. Drawing M-200, M-201 & M-202: Partial 3rd Floor Ceiling Space Area 'A', 'B' & 'C' Mechanical Demolition Plan (Revised, Issued):

6.1 For clarity, drawing note tags have been added.
6.2 Remove existing inactive (not in use) main chilled water supply/ return piping & main heating water supply/return piping in ceiling space that is serving the demolished floor-mounted fan coil units on the 4th floor. Remove associated pipe branches, valves, insulation, hangers & supports. (Only for Block 'A', 'B' & 'D'). Drawing note No. 7 has been added.
6.3 Existing newly installed main heating supply & return pipe with capped & valved branch piping that will serve the new wallfin rads on the 4th floor to remain as is. Drawing note No. 8 has been added.
6.4 Remove existing abandoned (not in use) outdoor air ductwork in ceiling space that is serving the floor-mounted fan coil units to be demolished on the 4th floor. Remove associated duct supports & hangers (Only for Block 'A', 'B' & 'D'). Drawing note No. 9 has been added.
6.5 Revised drawing note No. 3, added "**existing active (in use)**" for main chilled & heating piping to remain.
6.6 Existing heating & chilled water branch piping to floor-mounted fan coils at 4th floor to be removed. Drawing note Nos. 10, 11, 12 have been added.
6.7 Disconnection & capping of existing main chilled & heating water return in existing eletrical room has been shown. Drawing note No. 13 & 14 has been added.
6.8 Existing services at storage room has been shown on the drawings.
6.9 Existing main chilled & heating water supply & return pipe routing & connections from storage room to electrical room has been shown.

7. Drawing M-203: Partial 4th Floor Area 'A' HVAC Demolition Plan (Revised, Not Issued):

7.1 Temperature sensor near existing Janitor Room at gridline F/22-23 is to remain. Drawing note no. 4 shown on the plans.

8. Drawing M-206, M-207 & M-208: Partial 3rd Floor Ceiling Space Area 'A', 'B' & 'C' Mechanical New Layout (Revised, Issued):

8.1 For clarity, drawing note tags have been added.
8.2 Connections for new chilled water & heating water supply/return pipes for 4th floor fan coil units has been shown on Meeting Room/ Electrical Room & Storage Room. Drawing note Nos. 6, 7 & 15 has been revised.
8.3 Connections for new heating water supply/return pipes that will feed the new wallfin rads on the 4th floor Block 'A', 'B' & 'D' have been shown on Meeting Room/ Electrical Room & Storage Room. Drawing note Nos. 8 & 9 have been revised.
8.4 Existing newly installed main heating supply & return pipe with capped & valved branch piping that will serve the new wallfin rads on the 4th floor to remain as is. Drawing note No. 12 has been revised.
8.5 Drawing note No. 16 has been revised to No. 13. Note applies to new main heating supply & return pipes that will be installed on block 'E'.

8.6 Connections for new main heating water supply/return pipes that will feed the new wallfin rads on the 4th floor Block 'E' has been shown on Electrical Room & Storage Room. Drawing note No. 16 have been revised. Drawing note No. 17 has been added.
8.7 Added balancing damper on both existing & new outdoor air supply duct that is serving Block 'E' 3rd & 4th floor. Drawing note No. 18 have been added.
8.8 Added new heating supply & return branch piping for 4th floor wall fin rads.

9. Drawing M-209, M-210 & M-211: Partial 4th floor Ceiling Space Area 'A', 'B' & 'C' Mechanical New Layout (Revised, Issued):

9.1 For clarity, drawing note tags have been added.
9.2 Diffuser tags have been revised/ added.
9.3 O/A duct size and air quantities have been adjusted. Branch ducts have been corrected.
9.4 Transfer air duct & return air grilles have been added.
9.5 Fan coil supply ductwork have been adjusted to suit capacity.
9.6 1" wide achitectural slot for return air c/w sight baffle above has been shown on the drawings.
9.7 Added one (1) new fan coil unit 'FCU-127' to serve Work Zone 4-80 area. Refer to drawing for capacity, location and associated ductwork.

10. Drawing M-300, M-301 & M-302: Partial 4th Floor Area 'A', 'B' & 'C' Plumbing & Fire Protection Demolition Plan (Revised, Issued):

10.1 One (1) existing sidewall sprinkler head in existing kitchen at gridline 25-F to be removed and cap branch piping as required.
10.2 Nine (9) existing heads in rooms 4-85, 4-86, 4-103A, 4-80, 4-87, 4-93 have been removed. Cap branch piping as required.
10.3 Drawing notes have been shown on the drawings.

11. Drawing M-303, M-304 & M-305: Partial 4th Floor Area 'A', 'B' & 'C' Plumbing & Fire Protection New Layout (Revised, Issued):

11.1 Added fourteen (14) new heads in rooms 4-80, 4-85, 4-86, 4-87, 4-90, 4-93, 4-94, 4-96, 4-97 & 4-98.
11.2 Omitted two (2) new heads in room 4-88, 4-104.
11.3 Provide an allowance to extend existing hot & cold water piping, vent piping & sanitary drain on floor below from demolished sink to new location of new sink. Drawing note no. 8 has been added.
11.4 Provide new hub drain in ceiling space and connect to nearest sanitary drain piping at this approximate location. Drawing note no. 9 has been added.

12. Drawing M-306: 4th floor Washrooms Mechanical Demolition Plan (Revised, Not Issued):

12.1 Drawing note No. 1 has been revised to "Existing urinal c/w associated flush valve to b removed. Existing plumbing piping to remain for new fixture installation. Replace existing copper drain piping inside shaft with new pvc pipe and provide rough-in for new fixture installation. (Typical)".

13. Drawing M-307: 4th floor Washrooms Mechanical New Layout (Revised, Not Issued):

13.1 Drawing note No. 11 has been revised to "Provide new 300x450 access panel on wall for mechanical services. Refer to architectural drawings for details. Exact location to be verified on site (4pcs per Women's Washroom). Access panel shall be powder white coated.

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14. Drawing M-400, M-401 & M-402: Partial 4th Floor Area 'A', 'B' & 'C' Hydronic New Layout (Revised, Issued):

14.1 For clarity, drawing note tags have been added.
14.2 Chilled & heating water piping sizes have been adjusted.
14.3 Additional control valves fro wall fin radiators have been added.
14.4 Wallfin radiator type, flow and quantity have been adjusted.
14.5 For clarity, condensate piping shown to connect to existing storm drain behind existing column. And others to terminate indirectly at janitor sink. Drawing note No. 5 have been revised.
14.6 Floor water detection shown in Janitor's room.
14.7 New chilled & heating water return piping dropping to 3rd floor in Electrical Rooms have been adjusted.
14.8 . New fan coil unit 'FCU-127' chilled water, heating water and condensate piping connections have been added.
14.9 Wall fin radiation piping schematic have been adjusted.

15. Drawing M-500, M-501 & M-502: Partial 4th Floor Area 'A', 'B' & 'C' Controls Layout (Revised, Issued):

15.1 Added fan coil unit 'FCU-127' and controls connection.
15.2 Fresh air supply fan 'SF-1', 'SF-2', 'SF-3', 'SF-4' & 'SF-5' & controls connection has been shown. Darwing note No. 8 has been added.
15.3 Added wall fin radiators control valves & connections.

Issued by,

Sherwin Reyes .
GPY + Associates Engineering Inc.

HORIZONTAL FAN COIL UNIT SCHEDULE

BASIS OF DESIGN: JOHNSON CONTROLS
CONTACT INFO: MR. ISAAC MUI
OFFICE:(905) 747-3768 / MOBILE:(416) 938-9464

TAG	MFG.	MODEL NO.	AIR FLOW (CFM) /FAN SPEED H/M/L/UNLOAD	ESP (in wc)	CHILLED WATER COIL									HOT WATER COIL (RE-HEAT)								ELECTRICAL				WEIGHT (LB)	QUANTITY
					DB (°F)	WB (°F)	CAPACITY (BTUH) TOTAL	CAPACITY (BTUH) SENS.	E.A.T. (°F)	E.W.T. (°F)	L.W.T. (°F)	FLOW (GPM)	FLUID P.D (FT/H2O)	NO. ROWS	E.A.T. DB (°F)	L.A.T. DB (°F)	SENSIBLE CAPACITY (BTUH)	E.W.T. (°F)	L.W.T. (°F)	FLOW (GPM)	FLUID P.D (FT/H2O)	NO. ROWS	FAN (HP)	MCA/ MCOC	AMPS	VOLTS/PH/HZ		
FCU-16, 17, 19, 21, 22, 25-28, 40, 43, 46-53, 55-61, 69-73, 75-78, 80, 81, 87, 89, 93 & 96	JOHNSON CONTROLS	FHP-003	246/H	0.38	80	67	7924	6054	47	59.0	1.2	3.47	4	70	97.1	6586	140.0	120.1	0.7	1.09	1	1/4	0.88/15.0	0.70	208/1/60	43	34
FCU-2, 3, 11, 13, 14, 18, 20, 23, 24, 29-31, 33-36, 39, 41, 42, 44, 51-53, 55-61, 63, 64, 66, 74, 82, 83, 85, 88, 90-92, 98, 101, 103, 104, 117	JOHNSON CONTROLS	FHP-006	395/H	0.50	80	67	12864	9734	47	58.9	2.2	1.54	4	70	95.9	11346	140.0	120.1	1.10	0.59	1	1/4	1.50/15.0	1.20	208/1/60	81	46
FCU-1, 4-10, 12, 15, 32, 37, 38, 45, 54, 62, 79, 84, 86, 94, 95, 97, 99, 100, 102, 105, 106-116, 118-127	JOHNSON CONTROLS	FHP-008	501/H	0.38	80	67	16994	12594	47	59.3	2.8	6.38	4	70	96.1	14416	140.0	120.1	1.4	1.19	1	1/4	1.50/15.0	1.20	208/1/60	97	47

FAN COIL UNITS SHALL BE PROVIDED WITH SINGLE POWER LOCATION, 18 GAUGE CABINET, 3-SPEED (LOW, MEDIUM, AND HIGH) FAN WITH RELAY AND TRANSFORMER, ECM MOTOR, INTEGRAL GALVANIZED DRAIN PAN (FOR COIL & VALVING), MANUAL AIR VENT, VIBRATION ISOLATORS, DISCONNECT, CONDENSATE OVERFLOW SWITCH, LAMINATED LABEL, REAR RETURN AIR WITH MERV-13 FILTERS, AND CONTROL BOX c/w TERMINAL STRIP CONTAINING 2 WIRE CONNECTIONS FOR POWER AND 3 CONTROL WIRE CONNECTIONS, WHICH WHEN A SIGNAL IS APPLIED TO, ONE OF THE 3 CONNECTIONS TURNS THE FAN TO HIGH (OPTIONAL ONLY), MEDIUM (OCCUPIED MODE) OR LOW SPEED (UNOCCUPIED MODE OR HIGH HUMIDITY). ALL FAN COIL UNITS SHALL BE LOW PROFILE TYPE – MAXIMUM HEIGHT SHALL BE 270mm.

NOTES (FOR MECHANICAL CONTRACTOR):

1. MECHANICAL CONTRACTOR SHALL PROVIDE ALL ACCESSORIES AND INSTALL COMPLETE HVAC SYSTEM INCLUDING ALL CONTROL WIRING AND DEVICES: CONDENSATE OVERFLOW SWITCH, COOLING ACTUATOR INPUT, MOTOR SPEED CONTROL, ROOM AIR TEMPERATURE, AND DISCHARGE AIR TEMPERATURE. ALL FAN COIL UNITS AND SENSORS SHALL BE WIRED TO BMS.
2. DISCONNECTS SHALL BE SUPPLIED BY OWNER (REFER TO SCHEDULE) AND INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR – COORDINATE WITH PROJECT MANAGER AND ELECTRICAL CONTRACTOR.
3. PROVIDE 25mm CHILLED WATER SUPPLY AND RETURN PIPING WITH ISOLATION VALVES c/w MODULATING 2-WAY CONTROL VALVE AND ACTUATOR ON SUPPLY PIPING AND CIRCUIT SETTER ON CHILLED WATER RETURN PIPING – REFER TO DETAILS. NOTE: PIPING NOT SHOWN ON HVAC DRAWINGS FOR CLARITY. PROVIDE TIE-INS (HOT-TAPS) AS REQUIRED.
4. PROVIDE 20mm HEATING WATER SUPPLY AND RETURN PIPING WITH ISOLATION VALVES c/w MODULATING 2-WAY CONTROL VALVE AND ACTUATOR ON SUPPLY PIPING AND CIRCUIT SETTER ON HEATING WATER RETURN PIPING – REFER TO DETAILS. NOTE: PIPING NOT SHOWN ON HVAC DRAWINGS FOR CLARITY. PROVIDE TIE-INS (HOT-TAPS) AS REQUIRED.
5. PROVIDE CONDENSATE (GRAVITY) DRAIN PIPING TO EXISTING STORM DRAIN/ CONDENSATE MAIN IN CEILING SPACE.
6. PROVIDE CONDENSATE OVERFLOW SWITCH ON FAN COIL DRAIN PAN WIRED TO BMS.
7. THE BASE BUILDING CONTROLS CONTRACTOR SHALL PROVIDE NEW DELTA THERMOSTATS MODEL EZNF-X c/w LIGHTING CONTROL BUTTON, CO2 SENSOR, AND HUMIDITY SENSOR. THERMOSTAT SHALL MAINTAIN SPACE TEMPERATURE OF 22°C (WINTER)/23.5°C (SUMMER) AND MAXIMUM RELATIVE HUMIDITY OF 60RH. IF RELATIVE HUMIDITY REACHES A SETPOINT HIGHER THAN 60%, THE FAN COIL UNIT SHALL OPERATE AT LOW SPEED UNTIL RELATIVE HUMIDITY DROPS TO 50RH. DURING UNOCCUPIED MODE, THERMOSTAT SHALL MAINTAIN A MINIMUM OF 15°C AND A MAXIMUM OF 29.5°C; BUSINESS CENTER SHALL BE AT 23.5°C. BASE BUILDING CONTROLS CONTRACTOR TO PROVIDE ALL LOW VOLTAGE CONTROL WIRING.
8. PROVIDE TEMPERATURE SENSOR ON DISCHARGE AIR DUCT AND WIRE READING TO BMS.
9. PROVIDE NEW BAS CONTROLLER ALONG WITH CENTRAL HUB. COORDINATE WITH BASE BUILDING CONTROLS CONTRACTOR.
10. ENSURE THAT ALL ACCESS AND CLEARANCE REQUIREMENTS ARE PROVIDED – COORDINATE WITH PROJECT MANAGER AND ALL OTHER TRADES. EXACT LOCATION OF FAN COIL UNIT, DUCTWORK, CONDENSATE DRAINAGE, AND PIPING SHALL BE DETERMINED ON SITE WITH NEW AND EXISTING SERVICES AND EXISTING STRUCTURAL.
11. FILTER RACK SHALL BE SECURELY MOUNTED AT RETURN AIR SIDE OF FAN COIL UNIT. FRESH AIR DUCT TO BE INDIRECTLY TERMINATED AT FILTER LOCATION.
12. FILTER FOR FAN COIL UNIT SHALL BE LIMITED TO NOMINAL SIZES LISTED BELOW:
    1. 31" x 10.5" x 1" FOR MODEL FHP-006
    2. 19" x 10.5" x 1" FOR MODEL FHP-003 & 2 SETS FOR MODEL FHP-008

FRESH AIR SUPPLY FAN SCHEDULE

BASIS OF DESIGN: GREENHECK

TAG	SERVICE	TYPE	AIRFLOW (CFM)	EXT. S.P. (IN WC)	FLA (A)	WATTS	FAN RPM	ELEC. DATA	WEIGHT (LBS.)	BASIS OF DESIGN	REMARKS
SF-1	BLOCK "A"	IN-LINE	800	0.7	7.1	451	1090	115V/1PH/60Hz	59	GREENHECK CSP-A1300	C/W SPEED CONTROLLER FOR BALANCING.
SF-2	BLOCK "D"	IN-LINE	600	0.7	3.3	400	1579	115V/1PH/60Hz	39	GREENHECK CSP-A780	C/W SPEED CONTROLLER FOR BALANCING.
SF-3	BLOCK "D"	IN-LINE	800	0.7	7.1	451	1090	115V/1PH/60Hz	59	GREENHECK CSP-A1300	C/W SPEED CONTROLLER FOR BALANCING.
SF-4	BLOCK "E"	IN-LINE	800	0.7	7.1	451	1090	115V/1PH/60Hz	59	GREENHECK CSP-A1300	C/W SPEED CONTROLLER FOR BALANCING.
SF-5	BLOCK "E"	IN-LINE	750	0.7	7.1	420	1065	115V/1PH/60Hz	59	GREENHECK CSP-A1300	C/W SPEED CONTROLLER FOR BALANCING.

NOTE:
1. UNIT-MOUNTED VARIABLE SPEED CONTROLLER IS SUPPLIED FOR AIR BALANCING PURPOSE. VARIABLE SPEED CONTROLLER TO BE SUPPLIED AND INSTALLED BY MECHANICAL TRADES.
2. PROVIDE NEOPRENE VIBRATION ISOLATION KIT C/W ALL NECESSARY MOUNTING HARDWARE AS REQUIRED.
3. FAN TO BE INTERLOCKED WITH EXISTING BAS.

ACCESS PANEL

MFAB MDW SERIES DRYWALL BEAD ACCESS PANEL
MDW SERIES 16 GAGE SATIN COAT STEEL DOOR AND 16 GAGE SATIN COAT STEEL FRAME.
GALVANIZED DRYWALL TAPING BEAD. FINISH TO BE POWDER WHITE COAT

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	SUPPLY AIR DUCT UP
	SUPPLY AIR DUCT DOWN
	RETURN/EXHAUST AIR DUCT UP
	RETURN/EXHAUST AIR DUCT DOWN.
	EXISTING LIGHT TROFFER DIFFUSER
	NEW RETURN AIR GRILLE
	NEW SUPPLY AIR DUCTWORK
	ACOUSTICALLY LINED DUCTWORK
	EXISTING DUCTWORK TO REMAIN.
	EXISTING DUCTWORK / EQUIPMENT TO BE REMOVED
	FLEXIBLE DUCT COMPLETE WITH SPIN-ON
T	NEW THERMOSTAT
T	EXISTING THERMOSTAT
T R	RELOCATED THERMOSTAT
	ACOUSTICALLY LINED TRANSFER AIR DUCT
#	DRAWING NOTES
	EXISTING / NEW VAV BOX
	NEW ROUND SUPPLY AIR DIFFUSER
	NEW SQUARE SUPPLY AIR DIFFUSER
	LINEAR SLOT DIFFUSER
	DUCT MOUNTED SUPPLY AIR GRILLE
	DUCT CAP
RE	REMOVE
	NEW BALANCING DAMPER
F.H.C.	EXISTING FIRE HOSE CABINET
	NEW UPRIGHT TYPE SPRINKLER HEAD
	NEW PENDANT TYPE SPRINKLER HEAD
EX	REMOVE EXISTING SPRINKLER HEAD
EX	EXISTING SPRINKLER HEAD TO REMAIN
	NEW FULLY CONCEAL SPRINKLER HEAD
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
SAN	NEW SANITARY PIPE
V	NEW SANITARY VENT PIPE
	PIPE UP, PIPE DOWN
CO	CLEANOUT
C A B	A=MINIMUM AIR QUANTITY B=MAXIMUM AIR QUANTITY C=VAV BOX SIZE
A B C	A=SIZE OF DIFFUSER/GRILLE/REGISTER B=AIR QUANTITY (CFM) C=TYPE OF DIFFUSER/GRILLE/REGISTER

DIFFUSER SCHEDULE

BASIS OF DESIGN: E.H. PRICE
EQUAL IN: METALAIRE, NAILOR, TITUS

REF.	MODEL No.	DESCRIPTION	REMARKS
A	SCDA	600MWX600MM SQUARE CONE DIFFUSER, STEEL CONSTRUCTION, FULLY ADJUSTABLE AIR PATTERN CONTROLLER, SUITABLE FOR "T" BAR OR DRYWALL MOUNTING. C/W VOLUME DAMPER AT DIFFUSER NECK	B12 WHITE POWDER COAT FINISH
B	530D	45° DEFLECTION EXHAUST AIR GRILLE, FIXED LOUVERS, 3/4" BLADE SPACING, C/W OPPOSED BLADE DAMPER, FRONT BLADES PARALLEL TO LONG DIMENSION. SUITABLE FOR DRYWALL MOUNTING	B12 WHITE POWDER COAT FINISH
C	80 SERIES	RETURN AIR GRILLE 12x12x12 EGGCRATE, ALUMINUM CONSTRUCTION, SUITABLE FOR T-BAR CEILING MOUNTING. SIZES AS INDICATED ON DRAWING.	B12 WHITE POWDER COAT FINISH
D	SCDA	300MWX300MM SQUARE CONE DIFFUSER, STEEL CONSTRUCTION, FULLY ADJUSTABLE AIR PATTERN CONTROLLER, SUITABLE FOR "T" BAR OR DRYWALL MOUNTING. C/W VOLUME DAMPER AT DIFFUSER NECK	B12 WHITE POWDER COAT FINISH
E	SCDA	300MWX300MM SQUARE CONE DIFFUSER, STEEL CONSTRUCTION, FULLY ADJUSTABLE AIR PATTERN CONTROLLER, SUITABLE FOR "T" BAR OR DRYWALL MOUNTING. C/W VOLUME DAMPER AT DIFFUSER NECK	B12 WHITE POWDER COAT FINISH
F	---	ARCHITECTURAL PLENUM SLOT DEFFUSER. DIFFUSER BY ARCHITECTURAL DIVISION. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.	COLOUR SHALL BE SELECTED BY ARCHITECT/ INTERIOR DESIGNER
G	AS	ADJUSTA-SLOT, 1 SLOT – 4 FEET LONG, 1" SLOT WIDTH, CONCEALED MOUNTING FRAME, HORIZONTAL AIR PATTERN, C/W 4FT LONG STRAIGHT ENGINEERED PLENUM (CFP) WITH CABLE OPERATED DAMPER (VCRSEC) MOUNTED AT DIFFUSER NECK. PROVIDE SIGHT BAFFLE ON ALL INACTIVE AIR SLOTS.	B12 WHITE POWDER COAT FINISH

WALLFIN HEATER SCHEDULE

BASIS OF DESIGN: RITTLING
EQUAL IN: ENG. AIR, STERLING

TAG	TYPE	MODEL	ENCLOSURE (mm) (LxHxW)	TUBE SIZE DIA (mm)	NO. OF ROWS	CAPACITY (BTU/FT.)	FLOW (GPM/FT)	SUPPLY WATER TEMP. (°C)	RETURN WATER TEMP. (°C)	AVERAGE WATER TEMPERATURE (°C)	WALLFIN ELEMENT LENGTH (mm)
WF-1	HYDRONIC	SB05-3/4C,4-1/4,48	750x500x140	20	2	995	0.18	60	48.9	54.5	1000
WF-2	HYDRONIC	SB05-3/4C,4-1/4,48	500x500x140	20	2	995	0.18	60	48.9	54.5	750

NOTES:
1. REFER TO FLOOR PLANS FOR QUANTITIES OF WALL-FIN ELEMENTS.
2. HEATING CAPACITIES BASED ON ENTERING AIR TEMPERATURE OF 18°C.
3. REFER TO MECHANICAL DETAILS FOR VALVING ARRANGEMENTS.
4. PROVIDE RITTLING SBD 750mm LONG (MAX) ARCHITECTURAL TYPE ENCLOSURE CABINETS (16 GAUGE) FOR 108mmx108mm WALL-FIN HEATING ELEMENTS AND EXPOSED PIPE c/w SLOPED TOP, PENCIL-PROOF GRILLE, AND CUSTOMIZED ANGLES BETWEEN CABINETS TO MAINTAIN CONTINUOUS RUN ALONG CURVED PERIMETER WALL FROM COLUMN TO COLUMN. PROVIDE ALL REQUIRED ACCESSORIES AND FITTINGS TO FACILITATE INSTALLATION IN CURVED PERIMETER WALL CABINETS SHALL ONLY END WHERE THERE IS A RAIN WATER LEADER BEHIND PERIMETER COLUMN AND WHERE IT INTERSECTS WITH ALTOS PARTITIONS. PROVIDE END CAPS ON ENCLOSURE NEAR WALL. ENCLOSURE CABINETS SHALL BE ACCESSIBLE AT ALL TIMES. COORDINATE LENGTHS OF CABINETS ON SITE WITH EXISTING SITE CONDITIONS – LENGTH OF CABINETS, WHERE IT IS INSTALLED, SHALL BE BE NO MORE THAN HALF THE WIDTH OF GLAZING FROM MULLION TO MULLION. CABINET LENGTHS ALONG CURVED WALLS TO BE SITE MEASURED TO AVOID GAPS BETWEEN CABINET AND WALL. WHERE GAPS DO EXIST THAT ARE GREATER THAN 1/2" WIDE CONTRACTOR SHALL PROVIDE IN-FILL PLATE TO CLOSE OFF GAP. IN-FILL PLATES SHALL BE POWDER COATED TO MATCH HAD ENCLOSURE. PROVIDE SAMPLE OF CABINET TO OWNER FOR THEIR REVIEW AND APPROVAL. UPON RECEIPT OF WRITTEN APPROVAL, SHOP DRAWINGS MAY BE SUBMITTED TO MECHANICAL ENGINEER AND ARCHITECT.
5. REUSE EXISTING 20mm HEATING PIPING LOCATED AT LOW LEVEL. ALL VALVES SHALL BE CONCEALED WITHIN CABINETS.
6. PROVIDE MODULATING 2-WAY CONTROL VALVE WITH STATUS INDICATION FOR HEATING WATER SUPPLY PIPE AND CIRCUIT BALANCING VALVE FOR HEATING WATER RETURN PIPE c/w ISOLATION VALVES.

PLUMBING FIXTURE PIPING SCHEDULE

FIXTURE TYPE	WATER SUPPLY		DRAIN	VENT
	HOT	COLD		
S.S. KITCHEN SINK	1/2"ø	1/2"ø	1-1/2"ø	1-1/4"ø
LAVATORY	1/2"ø	1/2"ø	1-1/2"ø	1-1/4"ø
WATER CLOSET (FLUSH VALVE)	–	1"ø	3"ø	1-1/2"ø
URINAL (FLUSH VALVE)	–	1"ø	3"ø	1-1/2"ø
FLOOR / HUB DRAIN	–	–	2"ø	1-1/2"ø

NOTES:
1. PROVIDE TRAP PRIMER LINES AND TRAP PRIMERS FOR ALL FLOOR DRAINS.
2. ALL PIPING SHALL BE CONCEALED WITHIN WALLS
3. PROVIDE SHOCK STOPS ON HOT/COLD WATER SUPPLIES TO ALL FIXTURE GROUPS.
4. ALL VENTING SHALL CONFIRM TO OBC PART 7. INCREASE VENT SIZING AS REQUIRED WHERE TOTAL VENT LENGTH EXCEEDS SIZES LISTED ABOVE.
5. CONTRACTOR TO THOROUGHLY INSPECT THE SITE TO DETERMINE LOCATION OF EXISTING PIPING OF SUFFICIENT SIZE, AND EXTEND NEW VENT PIPING TO THIS LOCATION.
6. PROVIDE ISOLATION VALVES ON INCOMING PLUMBING PIPING.
7. ALL FLOOR DRAINS, FUNNEL FLOOR DRAINS, AND STANDING WASTE PIPES SHALL BE PRIMED.

PLUMBING FIXTURE SPEFICATIONS

'L-1'
SHALL BE LOVAR MONOLITH BASIN C/W TWO (2) SETS OF LOVAR RIBBON SERIES (LR010 RIBBON SOAP DISPENSER, L-R-020 RIBBON SENSOR TAP, FINISH TO BE STAINLESS STEEL.

• FOR EXACT SIZE AND COLOUR OF BASIN, REFER TO ARCHITECTURAL DRAWINGS.
• LAVATORY SHALL ONLY BE INSTALLED BY LOVAR TRAINED PERSONNEL.
• P-TRAP SHALL BE HEAVY CAST BRASS ADJUSTABLE TRAP WITH CLEANOUT PLUG ON THE BOTTOM OF THE TRAP.
• FAUCET, HAND SOAP DISPENSER TO BE INSTALLED BY MECHANICAL TRADES AND ELECTRICAL CONNECTION BY DIV. 16. INSTALLATION SHALL ONLY PROCEED WITH YORK REGION'S PM APPROVAL & DIRECTIONS.
• TWO (2) SETS OF TEMPERATURE MIXING VALVE TO SERVE EACH FAUCETS; LAWLER #570-86820, POINT OF USE AND MASTER CONTROLLED FIXTURES, THERMOSTATIC MASTER WATER MIXING CONTROL VALVE, NICKEL PLATED FINISH, LEAD FREE BRASS BODY CONSTRUCTION, TO ADJUST THE MIXED OUTLET TEMPERATURE OF THE VALVE, REMOVE THE CAP TO GAIN ACCESS TO THE ADJUSTING SPINDLE. THE SPINDLE SHOULD BE ROTATED-CLOCKWISE TO REDUCE THE TEMPERATURE, COUNTER-CLOCKWISE TO INCREASE THE TEMPERATURE UNTIL THE DESIRED SET POINT IS REACHED. THE TEMPERATURE IS ADJUSTED WITH THE HELP OF SPINDLE, 3/8" MNPT (9.5 MM) INLET, 3/8" MNPT (9.5 MM) OUTLET, INTERNAL CHECKS, ASSE 1070 APPROVED CERTIFIED TO CSA B125.3 FOR ASSE 1070 APPLICATIONS, 95-115°F OUTLET WATER TEMPERATURE RANGE, OFFERS CHOICE OF TEMPERATURE SETTINGS FROM 90° THROUGH 115°F., 125 PSI MAX HYDROSTATIC PRESSURE, ±20% PRESSURE VARIATION, 3 GPM (11 LPM) TEMPERED FLOWRATE @ 5 PSI PRESSURE DROP, 7 GPM FLOWRATE @ 45 PSI.*
• PROVIDE ISOLATION VALVES FOR BOTH HOT & COLD WATER PIPING FOR EACH FAUCET. ISOLATION VALVE SHALL BE "DAHL" BALL MINI VALVES.

'WC-1'
WALL HUNG TOILET – VITREOUS CHINA – FOR FLUSH VALVE – EXPOSED – NO TOUCH – HARDWIRED

AMERICAN STANDARD AFWALL MILLENNIUM FLOWISE ELONGATED #3351101.020 HET TOILET, VITREOUS CHINA WITH EVERCLEAN ANTIMICROBIAL SURFACE WHICH INHIBITS THE GROWTH OF STAIN AND ODOR CAUSING BACTERIA MOLD AND MILDEW, ELONGATED BOWL, WHITE FINISH, WALL HUNG, SIPHON JET FLUSH ACTION, OPERATES IN THE RANGE OF 4.2 L TO 6 L (1.1 US GAL TO 1.6 US GAL) PER FLUSH, CONDENSATE CHANNEL, 305 MM X 254 MM (12" X 10") WATER SURFACE, SIPHON JET FLUSH ACTION, CONDENSATE CHANNEL, ELONGATED BOWL, 54 MM (2-1/8") FULLY GLAZED INTERNAL TRAPWAY, TOILET SEAT NOT INCLUDED, 38 MM (1-1/2") DIA. TOP SPUD, CENTOCO #3005TSCC.001 TOILET SEAT, HEAVY DUTY, FOR ELONGATED BOWL, OPEN FRONT, SOLID PLASTIC, LESS COVER, STAINLESS STEEL CHECK HINGES, METAL FLAT WASHERS STAINLESS STEEL POSTS AND NUTS, AMERICAN STANDARD SELECTRONIC #6598.121, EXPOSED FLUSH VALVE FOR TOP SPUD TOILET, POLISHED CHROME FINISH, 4.8 L (1.28 US GAL) PER FLUSH, SELF-CLEANING BRASS PISTON WITH INTEGRAL WIPER SPRING PREVENTS CLOGGING, PROXIMITY FLUSH VALVE WITH PROGRAMMABLE, MULTI-FUNCTION INFRARED SENSOR, TRUE MECHANICAL OVER-RIDE BUTTON, 1" IPS BAK-CHEK ANGLE STOP, FLUSH TUBE FOR 292 MM (11-1/2") ROUGH-IN, OUTLET INCLUDES 38 MM (1-1/2") VACUUM BREAKER FOR BACK-FLOW PREVENTION, CHROME PLATE ONLY REQUIRED WHEN POWER SUPPLY MUST BE INSTALLED FROM THE FRONT, AC POWERED (HARD WIRED). AMERICAN STANDARD #7400.HAC, HARDWIRED HARDWIRED AC – POWER KIT, INCLUDES 10' LONG EXTENSION CABLE. WATTS #SCA-101-WI1 SINGLE HORIZONTAL ADJUSTABLE TOILET CARRIER, MOUNTED ON CONCRETE FLOOR, ALL EPOXY COATED CAST IRON FITTING, ADJUSTABLE AIS SLIDE NIPPLE WITH INTEGRAL TEST CAP AND NEOPRENE BOW, GASKET, WASTED PLATED HARDWARE, CHROME CAP NUTS, TILING FRAME, 102 MM (4") NO HUB WASTE, 51 MM (2") NO HUB VENT, 158.8 KG (350 LBS) STATIC LOAD. 305 MM (12") FINISHED METAL STUD WALL TO BACK OF PIPE SPACE. CHAMPION M-X SERIES #M-XHUB DRAIN COUPLING, COUPLING, NO-HUB, TYPE 304 AISI STAINLESS STEEL BAND, TYPE 304 AISI STAINLESS STEEL EYELET, ELASTOMERIC COMPOUND GASKET MEETING THE REQUIREMENTS OF ASTM C-564. TYPE 304 AISI STAINLESS STEEL SHIELD; PAINTED RED FOR EASY IDENTIFICATION, TESTED TO MAINTAIN 15 PSI MAXIMUM LINE PRESSURE AT 80 INCH LB MIN TO 100 INCH LB MAXIMUM TORQUE BOLT TIGHTNESS, TESTED BY IAPMO TO COMPLY TO FM 1680-1989 STANDARD (EXCEPT FOR MARKINGS) AND CSA B602-2010 STANDARD (UP TO 10"). THEY ARE TESTED AND CERTIFIED TO ASTM C1540-2011 STANDARD. PER OSHPD CODE APPLICATION NOTICE 5-311.9 REVISED 6/29/2011, SIGNED BY PAUL COLEMAN; SECTION I (A) STATES THAT: "THE USE OF COUPLINGS THAT HAVE BEEN TESTED TO CONFORM TO THE PERFORMANCE REQUIREMENTS OF FM APPROVALS, APPROVAL STANDARD 1680, CLASS L BY FM APPROVALS OR BY A NATIONALLY RECOGNIZED INDEPENDENT TESTING AGENCY" ARE ACCEPTABLE

'WC-2'
WALL HUNG TOILET – VITREOUS CHINA – FOR FLUSH VALVE – EXPOSED – NO TOUCH – HARDWIRED

AMERICAN STANDARD AFWALL MILLENNIUM FLOWISE ELONGATED #3351101.020 HET TOILET, VITREOUS CHINA WITH EVERCLEAN ANTIMICROBIAL SURFACE WHICH INHIBITS THE GROWTH OF STAIN AND ODOR CAUSING BACTERIA MOLD AND MILDEW, ELONGATED BOWL, WHITE FINISH, WALL HUNG, SIPHON JET FLUSH ACTION, OPERATES IN THE RANGE OF 4.2 L TO 6 L (1.1 US GAL TO 1.6 US GAL) PER FLUSH, CONDENSATE CHANNEL, 305 MM X 254 MM (12" X 10") WATER SURFACE, SIPHON JET FLUSH ACTION, CONDENSATE CHANNEL, ELONGATED BOWL, 54 MM (2-1/8") FULLY GLAZED INTERNAL TRAPWAY, TOILET SEAT NOT INCLUDED, 38 MM (1-1/2") DIA. TOP SPUD, CENTOCO #3005TSCC.001 TOILET SEAT, HEAVY DUTY, FOR ELONGATED BOWL, OPEN FRONT, SOLID PLASTIC, LESS COVER, STAINLESS STEEL CHECK HINGES, METAL FLAT WASHERS STAINLESS STEEL POSTS AND NUTS, AMERICAN STANDARD SELECTRONIC #6598.121, EXPOSED FLUSH VALVE FOR TOP SPUD TOILET, POLISHED CHROME FINISH, 4.8 L (1.28 US GAL) PER FLUSH, SELF-CLEANING BRASS PISTON WITH INTEGRAL WIPER SPRING PREVENTS CLOGGING, PROXIMITY FLUSH VALVE WITH PROGRAMMABLE, MULTI-FUNCTION INFRARED SENSOR, TRUE MECHANICAL OVER-RIDE BUTTON, 1" IPS BAK-CHEK ANGLE STOP, FLUSH TUBE FOR 292 MM (11-1/2") ROUGH-IN, OUTLET INCLUDES 38 MM (1-1/2") VACUUM BREAKER FOR BACK-FLOW PREVENTION, CHROME PLATE ONLY REQUIRED WHEN POWER SUPPLY MUST BE INSTALLED FROM THE FRONT, AC POWERED (HARD WIRED). AMERICAN STANDARD #7400.HAC, HARDWIRED HARDWIRED AC – POWER KIT, INCLUDES 10' LONG EXTENSION CABLE. WATTS #SCA-101-WI1 SINGLE HORIZONTAL ADJUSTABLE TOILET CARRIER, MOUNTED ON CONCRETE FLOOR, ALL EPOXY COATED CAST IRON FITTING, ADJUSTABLE AIS SLIDE NIPPLE WITH INTEGRAL TEST CAP AND NEOPRENE BOW, GASKET, WASTED PLATED HARDWARE, CHROME CAP NUTS, TILING FRAME, 102 MM (4") NO HUB WASTE, 51 MM (2") NO HUB VENT, 158.8 KG (350 LBS) STATIC LOAD. 305 MM (12") FINISHED METAL STUD WALL TO BACK OF PIPE SPACE. CHAMPION M-X SERIES #M-XHUB DRAIN COUPLING, COUPLING, NO-HUB, TYPE 304 AISI STAINLESS STEEL BAND, TYPE 304 AISI STAINLESS STEEL EYELET, ELASTOMERIC COMPOUND GASKET MEETING THE REQUIREMENTS OF ASTM C-564. TYPE 304 AISI STAINLESS STEEL SHIELD; PAINTED RED FOR EASY IDENTIFICATION, TESTED TO MAINTAIN 15 PSI MAXIMUM LINE PRESSURE AT 80 INCH LB MIN TO 100 INCH LB MAXIMUM TORQUE BOLT TIGHTNESS, TESTED BY IAPMO TO COMPLY TO FM 1680-1989 STANDARD (EXCEPT FOR MARKINGS) AND CSA B602-2010 STANDARD (UP TO 10"). THEY ARE TESTED AND CERTIFIED TO ASTM C1540-2011 STANDARD. PER OSHPD CODE APPLICATION NOTICE 5-311.9 REVISED 6/29/2011, SIGNED BY PAUL COLEMAN; SECTION I (A) STATES THAT: "THE USE OF COUPLINGS THAT HAVE BEEN TESTED TO CONFORM TO THE PERFORMANCE REQUIREMENTS OF FM APPROVALS, APPROVAL STANDARD 1680, CLASS L BY FM APPROVALS OR BY A NATIONALLY RECOGNIZED INDEPENDENT TESTING AGENCY" ARE ACCEPTABLE

'U-1'
WALL HUNG URINAL – FOR FLUSHOMETER – EXPOSED – NO TOUCH – HARDWIRED

AMERICAN STANDARD WASHBROOK FLOWISE #6590.001.020 URINAL, VITREOUS CHINA, OPERATES IN THE RANGE OF 0.5 L TO 3.8 L (0.125 US GAL TO 1.0 US GAL) PER FLUSH, WALL HUNG, EXTENDED SIDES FOR PRIVACY, WASHDOWN ACTION, WASHBROOK FLOWISE, FLUSHING RIM, 19 MM (3/4") DIA. TOP SPUD, ELONGATED RIM, INTEGRAL P-TRAP, OUTLET CONNECTION 51 MM (2"), 2 WALL HANGERS, #7001242-100 CHROME PLATED, NON-METALLIC STRAINER, WHITE FINISH. SLOAN ROYAL (SINGLE FLUSH SIDE MOUNT) #ROYAL (SINGLE FLUSH SIDE MOUNT) 186-0.125 SFSM WM, EXPOSED FLUSHOMETER FOR TOP SPUD URINAL, 0.5 L (0.125 US GAL) FACTORY SET FLOW, QUIET ACTION "PERMEX" DIAPHRAGM TYPE WITH DUAL FILTER BY-PASS, INFRARED SENSOR, CIRCUITRY, TRUE MECHANICAL OVER-RIDE BUTTON, SCREWDRIVER BAK-CHEK ANGLE STOP WITH FREE-SPINNING V.P. STOP CAP, FLUSH TUBE FOR 292 MM (11-1/2") ROUGH-IN, HIGH PRESSURE VACUUM BREAKER. SLOAN #EAF-37, BOX MOUNT HARDWIRED TRANSFORMER, 120 VAC/ 6 VDC. WATTS #CA-321 FIXTURE CARRIER, MOUNTED ON CONCRETE FLOOR, STEEL HANGER PLATE, HEAVY GAUGE EPOXY COATED STEEL OFFSET UPRIGHTS WITH WELDED FEET SUPPORTS. FOR ONE UNIT: 102 MM (4") FOR TWO TO SIX UNITS IN A ROW: 152 MM (6") FINISHED METAL STUD WALL TO BACK OF PIPE SPACE. WATTS #MCO URINAL WALL ACCESS CLEANOUT. TWO (2) PIECE EXPANDABLE PLUG WITH 102 MM (4") DIAMETER STAINLESS STEEL ACCESS COVER, SECURED WITH VANDAL PROOF STAINLESS STEEL SCREW. CHAMPION M-X SERIES #M-XHUB DRAIN COUPLING, COUPLING, NO-HUB, TYPE 304 AISI STAINLESS STEEL BAND, TYPE 304 AISI STAINLESS STEEL EYELET, ELASTOMERIC COMPOUND GASKET MEETING THE REQUIREMENTS OF ASTM C-564. TYPE 304 AISI STAINLESS STEEL SHIELD; PAINTED RED FOR EASY IDENTIFICATION, TESTED TO MAINTAIN 15 PSI MAXIMUM LINE PRESSURE AT 80 INCH LB MIN TO 100 INCH LB MAXIMUM TORQUE BOLT TIGHTNESS, TESTED BY IAPMO TO COMPLY TO FM 1680-1989 STANDARD (EXCEPT FOR MARKINGS) AND CSA B602-2010 STANDARD (UP TO 10"). THEY ARE TESTED AND CERTIFIED TO ASTM C1540-2011 STANDARD. PER OSHPD CODE APPLICATION NOTICE 5-311.9 REVISED 6/29/2011, SIGNED BY PAUL COLEMAN; SECTION I (A) STATES THAT: "THE USE OF COUPLINGS THAT HAVE BEEN TESTED TO CONFORM TO THE PERFORMANCE REQUIREMENTS OF FM APPROVALS, APPROVAL STANDARD 1680, CLASS L BY FM APPROVALS OR BY A NATIONALLY RECOGNIZED INDEPENDENT TESTING AGENCY" ARE ACCEPTABLE

'S-1'
UNDER COUNTER SINK – SINGLE HANDLE FAUCET – POINT OF USE THERMOSTATIC WATER MIXING VALVE

FRANKE COMMERCIAL #UCSB609-1 SINGLE BOWL UNDER COUNTER SINK, 511 MM (20-1/8") WIDE X 460 MM (18-1/8") LONG X 127 MM (5") HIGH DEEP, COUNTER MOUNTED, NO LEDGE, GRADE 18-10 18 GA. (1.2 MM) TYPE 304 STAINLESS STEEL, SATIN FINISH RIM AND BOWLS, MOUNTING KI

1 M-101 CHILLED & HEATING WATER PIPING SCHEMATIC - 4TH FLOOR BLOCK 'A'
SCALE: N.T.S.

2 M-101 CHILLED & HEATING WATER PIPING SCHEMATIC - 4TH FLOOR BLOCK 'D1'
SCALE: N.T.S.

3 M-101 CHILLED & HEATING WATER PIPING SCHEMATIC - 4TH FLOOR BLOCK 'D2'
SCALE: N.T.S.

SUBMISSION	DATE	DESCRIPTION
1	03-14-2022	ISSUED FOR 60% REVIEW
2	04-26-2022	ISSUED FOR 80% REVIEW
3	05-31-2022	ISSUED FOR 97% REVIEW
4	06-13-2022	ISSUED FOR TENDER
5	07-21-2022	ISSUED AS PER ADDENDUM M-2

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LICENSED PROFESSIONAL ENGINEER
G.V. YOUDELIS
06/13/2022
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT: BUILDING & FACILITIES

FLOOR: 4TH

BASE DATE: 01-01-2022

PROJECT:

PROJECT #9907

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: NOT TO SCALE

DRAWN BY: **S.P.R./G.G.**

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

SCHEMATIC DIAGRAM

SHEET NUMBER:

M-101

1 M-102 CHILLED & HEATING WATER PIPING SCHEMATIC - 4TH FLOOR BLOCK 'E1'
SCALE: N.T.S.

2 M-102 CHILLED & HEATING WATER PIPING SCHEMATIC - 4TH FLOOR BLOCK 'E2'
SCALE: N.T.S.

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DRAWN BY: **S.P.R./G.G.**
SUBMITTED TO: MUNICIPALITY OF YORK
SHEET TITLE:

SCHEMATIC DIAGRAM

SHEET NUMBER:
M-102

14 ACOUSTIC TRANSFER AIR DUCT INSTALLATION DETAIL
M-104 SCALE: N.T.S.

15 TYPE 'L' (ADJUSTA-SLOT LINEAR DIFFUSER) INSTALLATION DETAIL
M-104 SCALE: N.T.S.

16 TYPICAL ARCHITECTURAL SLOT RETURN AIR BAFFLE DETAIL
M-104 SCALE: N.T.S.

NOTES:
1. PROVIDE 16-GAUGE HEATING ENCLOSURE CABINETS FOR WALL-FIN HEATERS AND EXPOSED PIPING C/W CUSTOMIZED ANGLES BETWEEN CABINETS TO MAINTAIN CONTINUOUS RUN ALONG CURVED PERIMETER WALL AND ALL OTHER REQUIRED ACCESSORIES TO FACILITATE INSTALLATION. CABINETS SHALL ONLY END WHERE THERE IS A RAIN WATER LEADER BEHIND PERIMETER COLUMN AND ALTOS PARTITION. ENCLOSURES ARE NOT INDICATED ON PLANS FOR CLARITY ONLY.
2. REUSE DUSTING 20mm HEATING PIPING AT LOW LEVEL. ALL VALVES SHALL BE CONCEALED WITHIN CABINET ENCLOSURES AND SHALL BE ACCESSIBLE.
3. MAXIMUM LENGTH OF ACTIVE WALL-FIN ELEMENT SHALL BE 1000mm.
4. CONTROLS SHALL BE CONNECTED TO BAS.

4 PERIMETER WALL-FIN HEATERS
M-104 SCALE: N.T.S.

NOTE:
1. CHANGE LEVELS TO ACCOMMODATE THE ODD ANGLE.

10 CHILLED WATER PIPING ODD ANGLES INSTALLATION DETAIL
M-104 SCALE: N.T.S.

3 TYPICAL SPIN-ON FITTING DETAIL
M-104 SCALE: N.T.S.

1 DUCTWORK FITTINGS AND BALANCING DAMPER DETAILS
M-104 SCALE: N.T.S.

NOTES:
1. BAS SHALL MONITOR AND CONTROL AIRFLOW TO MATCH DESIGN AIRFLOW REQUIREMENTS.
2. SUPPLY FAN TO OPERATE DURING OCCUPIED PERIODS. FAN TO BE OFF DURING UNOCCUPIED PERIODS. OBTAIN OCCUPANCY SCHEDULE FROM OWNER.

11 FRESH AIR SUPPLY FAN CONTROL DIAGRAM
M-104 SCALE: N.T.S.

6 DETAIL OF FIRE DAMPER INSTALLATION
M-104 SCALE: N.T.S.

NOTES:
1. CONTROLS CONTRACTOR SHALL PROVIDE DDC CONTROLLER AND ALL LOW-VOLTAGE WIRING BETWEEN CONTROLLER AND BMS.
2. CONTROLS CONTRACTOR SHALL PROVIDE SENSOR HUB, THERMOSTAT AND LOW-VOLTAGE WIRING BETWEEN SENSOR HUB, THERMOSTAT (TEMPERATURE AND CO2 WHERE INDICATED ON HVAC PLANS) AND DDC CONTROLLER.
3. OCCUPANCY STATUS VIA SENSOR HUB.
4. CONTROL CONTRACTOR SHALL PROVIDE ALL POWER AND CONTROL WIRING AS REQUIRED FOR A COMPLETE AND OPERATIONAL BAS CONTROL SYSTEM. THREE DEDICATED 15 AMP CIRCUITS HAVE BEEN PROVIDED FOR CONTROL SYSTEM POWER WIRING. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF ELECTRICAL PANELS AND DEDICATED CIRCUITS ASSIGNED TO THE BAS CONTROL SYSTEM.

2 CONTROL (LOW VOLTAGE AND POWER) WIRING
M-104 SCALE: N.T.S.

13 TYPICAL DIFFUSER & FLEXIBLE DUCT CONNECTION
M-104 SCALE: N.T.S.

7 TYPICAL TRANSFER DUCT DETAIL
M-104 SCALE: N.T.S.

GENERAL NOTES:
1. SEAL AROUND PIPING WHERE PENETRATION OCCURS THROUGH SOUNDPROOF BAFFLE INSIDE WALL FINN ENCLOSURE.
2. SECURE SOUND BAFFLE INSIDE ENCLOSURE TO MULLION AND FLOOR AND CAULK AROUND BOTH SIDES.

12 WALL FINN ENCLOSURE SOUND BAFFLE AT DEMISING WALLS
M-104 SCALE: N.T.S.

2 HORIZONTAL FAN COIL UNIT DETAIL
M-104 SCALE: N.T.S.

9 PIPING SCHEMATIC FOR 4 PIPE FAN COIL UNIT
M-104 SCALE: N.T.S.

3 FLOOR MOUNTED WALL FIN DETAIL
M-104 SCALE: N.T.S.

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SCALE: NOT TO SCALE
DRAWN BY: S.P.R./G.G.
SUBMITTED TO: MUNICIPALITY OF YORK
SHEET TITLE:

MECHANICAL DETAILS

SHEET NUMBER:
M-104

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
3. CONTRACTOR TO COORDINATE WORK ON SITE WITH EXISTING MECHANICAL AND ELECTRICAL SERVICES.
4. WHERE DUCTWORK, PIPING AND EQUIPMENT IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED DUCT/PIPE HANGERS, VALVES, DAMPERS, ETC.
5. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING DRYWALL CEILING TO FACILITATE REMOVAL OF MECHANICAL AND ELECTRICAL SERVICES OUTLINED IN SCOPE OF WORKS.
6. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND ENGINEER, PROVIDE ACCESS PANELS/DOORS AS REQUIRED.
7. ALL REDUNDANT AND OBSOLETE OPENINGS IN SLAB SHALL BE FIRE STOPPED, SEALED, CAPPED, AND MADE GOOD.
8. CONTROLS CONTRACTOR SHALL SAFELY AND CAREFULLY REMOVE EXISTING SPACE TEMPERATURE SENSORS AND RETURN TO OWNER FOR SPARE PARTS. REMOVAL OF SPACE TEMPERATURE SENSORS SHALL BE DONE BY CONTROLS CONTRACTOR ONLY, NOT BY ANY OTHER TRADERS. ALL OTHER EXISTING CONTROLS (CONTROLLERS, CONTROL VALVES, ETC) SHALL BE DEMOLISHED AND REMOVED FROM SITE.
9. PROVIDE NECESSARY PROTECTIONS FOR ALL WORKSTATIONS, FURNITURE, PARTITION WALL, FLOORING AND WINDOWS ON THE THIRD FLOOR PRIOR TO COMMENCEMENT OF ANY WORK.
10. CONTRACTOR SHALL REMOVE ALL PROTECTIONS USED ON THIRD FLOOR AS NOTED ABOVE AND CLEAN THE SPACES AS REQUIRED BEFORE THE START OF EACH REGULAR BUSINESS DAY.
11. DRAWING NOTE NO. 9 (PROTECTION) & NOTE NO. 10 (REMOVAL & CLEAN-UP) SHALL BE DONE REPEATEDLY FOR THE DURATION OF WORK PERIOD.

DRAWING NOTES

1. EXISTING OUTDOOR AIR SUPPLY DUCTWORK IN CEILING SPACE OF THIS FLOOR TO REMAIN. (TYPICAL)
2. EXISTING OUTDOOR AIR SUPPLY DUCT RISER TO REMAIN.
3. EXISTING ACTIVE (IN USE) MAIN CHILLED WATER SUPPLY & RETURN PIPING AND MAIN HEATING WATER SUPPLY & RETURN PIPING IN CEILING SPACE OF THIS FLOOR TO REMAIN. (TYPICAL)
4. CUT BACK AND CAP EXISTING OUTDOOR AIR SUPPLY DUCT IN CEILING SPACE OF THIS FLOOR. CONTRACTOR TO CHECK/VERIFY EXACT LOCATION OF DUCTWORK ON SITE. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENINGS AS REQUIRED. (TYPICAL)
5. CUT BACK AND CAP EXISTING CHILLED WATER SUPPLY AND RETURN PIPING IN CEILING SPACE OF THIS FLOOR. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENING AS REQUIRED. (TYPICAL)
6. CUT BACK AND CAP EXISTING HEATING WATER SUPPLY AND RETURN PIPING IN CEILING SPACE OF THIS FLOOR. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENING AS REQUIRED. (TYPICAL)
7. REMOVE EXISTING INACTIVE (NOT IN USE) MAIN CHILLED WATER SUPPLY & RETURN PIPING AND MAIN HEATING WATER SUPPLY & RETURN PIPING IN CEILING SPACE THAT IS SERVICE THE FLOOR-MOUNTED FAN COIL UNITS TO BE DEMOLISHED ON THE 4TH FLOOR. REMOVE ASSOCIATED PIPE BRANCHES, VALVES, INSULATION, HANGERS & SUPPORTS (ONLY FOR BLOCK 'A', 'B' & 'D')
8. EXISTING NEWLY INSTALLED MAIN HEATING SUPPLY AND RETURN PIPE WITH CAPPED & VALVE BRANCH PIPING THAT WILL SERVE THE NEW WALL FIN RADS ON THE 4TH FLOOR TO REMAIN AS IS. (TYPICAL)
9. REMOVE EXISTING ABANDONED (NOT IN USE) OUT DOOR AIR DUCTWORK IN CEILING SPACE THAT IS SERVING THE FLOOR-MOUNTED FAN COIL UNITS TO BE DEMOLISHED ON THE 4TH FLOOR. REMOVE ASSOCIATED DUCT SUPPORTS & HANGERS. (ONLY FOR BLOCK 'A', 'B' & 'D')
10. REMOVE EXISTING CHILLED WATER SUPPLY AND RETURN BRANCH PIPING IN CEILING SPACE OF THIS FLOOR SERVING THE DEMOLISHED FLOOR-MOUNTED FAN COIL UNITS ON THE 4TH FLOOR. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENINGS AS REQUIRED. (TYPICAL)
11. REMOVE EXISTING HEATING WATER SUPPLY AND RETURN BRANCH PIPING IN CEILING SPACE OF THIS FLOOR SERVING THE DEMOLISHED FLOOR-MOUNTED FAN COIL UNITS ON THE 4TH FLOOR. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENINGS AS REQUIRED. (TYPICAL)
12. REMOVE EXISTING OUTDOOR AIR SUPPLY BRANCH DUCT IN CEILING SPACE OF THIS FLOOR SERVING THE DEMOLISHED FLOOR-MOUNTED FAN COIL UNITS ON THE 4TH FLOOR. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENINGS AS REQUIRED. (TYPICAL)
13. DISCONNECT AND CAP EXISTING HOT WATER RETURN PIPING AS SHOWN.
14. DISCONNECT AND CAP EXISTING CHILLED WATER RETURN PIPING AS SHOWN.

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE 3RD FLOOR SHALL ONLY BE DONE AFTER HOURS (5:30 PM TO 8:30 AM). THIS INCLUDES REMOVAL & CAPPING OF OUTDOOR AIR DUCTWORK IN CEILING SPACE, REMOVAL/CAPPING/NEW CONNECTION OF CHILLED WATER PIPES & HEATING WATER PIPES, REMOVAL/CAPPING/NEW CONNECTION OF CONDENSATE DRAIN, FLOOR SLAB CUTTING/PATCHING, E.T.C.. CONTRACTOR SHALL COORDINATE WITH REGION'S PM PRIOR TO COMMENCEMENT OF ANY WORK.

EXISTING OUTDOOR AIR INSPECTION

1. MECHANICAL CONTRACTOR SHALL PERFORM A COMPLETE VISUAL INSPECTION OF THE EXISTING SUPPLY AIR DUCT SYSTEM AND REPORT ANY FINDING OF OPEN DUCT BRANCHES, MISSING CAPPED CONNECTIONS, OPENING IN MAIN AND BRANCH DUCTS, BLOCKAGE AND LOOSE CONNECTIONS TO ENGINEER PRIOR TO COMMENCEMENT OF WORK. ALL OPENINGS, BLOCKAGES ETC. ARE TO BE RECTIFIED PRIOR TO PRE-BALANCING.

AREA 'A'

SUBMISSION	DATE	DESCRIPTION
1	03-14-2022	ISSUED FOR 60% REVIEW
2	04-26-2022	ISSUED FOR 80% REVIEW
3	05-31-2022	ISSUED FOR 97% REVIEW
4	06-13-2022	ISSUED FOR TENDER
5	07-21-2022	ISSUED AS PER ADDENDUM M-2

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LICENSED PROFESSIONAL ENGINEER
G.V. YOUDELIS
06/13/2022
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	4TH
BASE DATE:	01-01-2022

PROJECT:

PROJECT #9907

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100m

DRAWN BY: **S.P.R./G.G.**

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL 3RD FLOOR CEILING SPACE AREA 'A' MECHANICAL DEMOLITION PLAN

SHEET NUMBER:

M-200

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
3. CONTRACTOR TO COORDINATE WORK ON SITE WITH EXISTING MECHANICAL AND ELECTRICAL SERVICES.
4. WHERE DUCTWORK, PIPING AND EQUIPMENT IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED DUCT/PIPE HANGERS, VALVES, DAMPERS, ETC.
5. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING DRYWALL CEILING TO FACILITATE REMOVAL OF MECHANICAL AND ELECTRICAL SERVICES OUTLINED IN SCOPE OF WORKS.
6. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND ENGINEER, PROVIDE ACCESS PANELS/DOORS AS REQUIRED.
7. ALL REDUNDANT AND OBSOLETE OPENINGS IN SLAB SHALL BE FIRE STOPPED, SEALED, CAPPED, AND MADE GOOD.
8. CONTROLS CONTRACTOR SHALL SAFELY AND CAREFULLY REMOVE EXISTING SPACE TEMPERATURE SENSORS AND RETURN TO OWNER FOR SPARE PARTS. REMOVAL OF SPACE TEMPERATURE SENSORS SHALL BE DONE BY CONTROLS CONTRACTOR ONLY, NOT BY ANY OTHER TRADERS. ALL OTHER EXISTING CONTROLS (CONTROLLERS, CONTROL VALVES, ETC) SHALL BE DEMOLISHED AND REMOVED FROM SITE.
9. PROVIDE NECESSARY PROTECTIONS FOR ALL WORKSTATIONS, FURNITURE, PARTITION WALL, FLOORING AND WINDOWS ON THE THIRD FLOOR PRIOR TO COMMENCEMENT OF ANY WORK.
10. CONTRACTOR SHALL REMOVE ALL PROTECTIONS USED ON THIRD FLOOR AS NOTED ABOVE AND CLEAN THE SPACES AS REQUIRED BEFORE THE START OF EACH REGULAR BUSINESS DAY.
11. DRAWING NOTE NO. 9 (PROTECTION) & NOTE NO. 10 (REMOVAL & CLEAN-UP) SHALL BE DONE REPEATEDLY FOR THE DURATION OF WORK PERIOD.

DRAWING NOTES

1. EXISTING OUTDOOR AIR SUPPLY DUCTWORK IN CEILING SPACE OF THIS FLOOR TO REMAIN. (TYPICAL)
2. EXISTING OUTDOOR AIR SUPPLY DUCT RISER TO REMAIN.
3. EXISTING ACTIVE (IN USE) MAIN CHILLED WATER SUPPLY & RETURN PIPING AND MAIN HEATING WATER SUPPLY & RETURN PIPING IN CEILING SPACE OF THIS FLOOR TO REMAIN. (TYPICAL)
4. CUT BACK AND CAP EXISTING OUTDOOR AIR SUPPLY DUCT IN CEILING SPACE OF THIS FLOOR. CONTRACTOR TO CHECK/VERIFY EXACT LOCATION OF DUCTWORK ON SITE. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENINGS AS REQUIRED. (TYPICAL)
5. CUT BACK AND CAP EXISTING CHILLED WATER SUPPLY AND RETURN PIPING IN CEILING SPACE OF THIS FLOOR. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENING AS REQUIRED. (TYPICAL)
6. CUT BACK AND CAP EXISTING HEATING WATER SUPPLY AND RETURN PIPING IN CEILING SPACE OF THIS FLOOR. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENING AS REQUIRED. (TYPICAL)
7. REMOVE EXISTING INACTIVE (NOT IN USE) MAIN CHILLED WATER SUPPLY & RETURN PIPING AND MAIN HEATING WATER SUPPLY & RETURN PIPING IN CEILING SPACE THAT IS SERVICE THE FLOOR-MOUNTED FAN COIL UNITS TO BE DEMOLISHED ON THE 4TH FLOOR. REMOVE ASSOCIATED PIPE BRANCHES, VALVES, INSULATION, HANGERS & SUPPORTS (ONLY FOR BLOCK 'A', 'B' & 'D')
8. EXISTING NEWLY INSTALLED MAIN HEATING SUPPLY AND RETURN PIPE WITH CAPPED & VALVE BRANCH PIPING THAT WILL SERVE THE NEW WALL FIN RADS ON THE 4TH FLOOR TO REMAIN AS IS. (TYPICAL)
9. REMOVE EXISTING ABANDONED (NOT IN USE) OUT DOOR AIR DUCTWORK IN CEILING SPACE THAT IS SERVING THE FLOOR-MOUNTED FAN COIL UNITS TO BE DEMOLISHED ON THE 4TH FLOOR. REMOVE ASSOCIATED DUCT SUPPORTS & HANGERS. (ONLY FOR BLOCK 'A', 'B' & 'D')
10. REMOVE EXISTING CHILLED WATER SUPPLY AND RETURN BRANCH PIPING IN CEILING SPACE OF THIS FLOOR SERVING THE DEMOLISHED FLOOR-MOUNTED FAN COIL UNITS ON THE 4TH FLOOR. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENINGS AS REQUIRED. (TYPICAL)
11. REMOVE EXISTING HEATING WATER SUPPLY AND RETURN BRANCH PIPING IN CEILING SPACE OF THIS FLOOR SERVING THE DEMOLISHED FLOOR-MOUNTED FAN COIL UNITS ON THE 4TH FLOOR. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENINGS AS REQUIRED. (TYPICAL)
12. REMOVE EXISTING OUTDOOR AIR SUPPLY BRANCH DUCT IN CEILING SPACE OF THIS FLOOR SERVING THE DEMOLISHED FLOOR-MOUNTED FAN COIL UNITS ON THE 4TH FLOOR. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENINGS AS REQUIRED. (TYPICAL)
13. DISCONNECT AND CAP EXISTING HOT WATER RETURN PIPING AS SHOWN.
14. DISCONNECT AND CAP EXISTING CHILLED WATER RETURN PIPING AS SHOWN.

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE 3RD FLOOR SHALL ONLY BE DONE AFTER HOURS (5:30 PM TO 8:30 AM). THIS INCLUDES REMOVAL & CAPPING OF OUTDOOR AIR DUCTWORK IN CEILING SPACE, REMOVAL/CAPPING/NEW CONNECTION OF CHILLED WATER PIPES & HEATING WATER PIPES, REMOVAL/CAPPING/NEW CONNECTION OF CONDENSATE DRAIN, FLOOR SLAB CUTTING/PATCHING, E.T.C. CONTRACTOR SHALL COORDINATE WITH REGION'S PM PRIOR TO COMMENCEMENT OF ANY WORK.

EXISTING OUTDOOR AIR INSPECTION

1. MECHANICAL CONTRACTOR SHALL PERFORM A COMPLETE VISUAL INSPECTION OF THE EXISTING SUPPLY AIR DUCT SYSTEM AND REPORT ANY FINDING OF OPEN DUCT BRANCHES, MISSING CAPPED CONNECTIONS, OPENING IN MAIN AND BRANCH DUCTS, BLOCKAGE AND LOOSE CONNECTIONS TO ENGINEER PRIOR TO COMMENCEMENT OF WORK. ALL OPENINGS, BLOCKAGES ETC. ARE TO BE RECTIFIED PRIOR TO PRE-BALANCING.

AREA 'B'

SUBMISSION	DATE	DESCRIPTION
1	03-14-2022	ISSUED FOR 60% REVIEW
2	04-26-2022	ISSUED FOR 80% REVIEW
3	05-31-2022	ISSUED FOR 97% REVIEW
4	06-13-2022	ISSUED FOR TENDER
5	07-21-2022	ISSUED AS PER ADDENDUM M-2

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LICENSED PROFESSIONAL ENGINEER
GEORGE YOUDELIS
06/13/2022
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	4TH
BASE DATE:	01-01-2022

PROJECT:

PROJECT #9907

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100m

DRAWN BY: **S.P.R./G.G.**

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL 3RD FLOOR
AREA 'B'
MECHANICAL DEMOLITION
PLAN

SHEET NUMBER:

M-201

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
3. CONTRACTOR TO COORDINATE WORK ON SITE WITH EXISTING MECHANICAL AND ELECTRICAL SERVICES.
4. WHERE DUCTWORK, PIPING AND EQUIPMENT IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED DUCT/PIPE HANGERS, VALVES, DAMPERS, ETC.
5. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING DRYWALL CEILING TO FACILITATE REMOVAL OF MECHANICAL AND ELECTRICAL SERVICES OUTLINED IN SCOPE OF WORKS.
6. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND ENGINEER, PROVIDE ACCESS PANELS/DOORS AS REQUIRED.
7. ALL REDUNDANT AND OBSOLETE OPENINGS IN SLAB SHALL BE FIRE STOPPED, SEALED, CAPPED, AND MADE GOOD.
8. CONTROLS CONTRACTOR SHALL SAFELY AND CAREFULLY REMOVE EXISTING SPACE TEMPERATURE SENSORS AND RETURN TO OWNER FOR SPARE PARTS. REMOVAL OF SPACE TEMPERATURE SENSORS SHALL BE DONE BY CONTROLS CONTRACTOR ONLY, NOT BY ANY OTHER TRADERS. ALL OTHER EXISTING CONTROLS (CONTROLLERS, CONTROL VALVES, ETC) SHALL BE DEMOLISHED AND REMOVED FROM SITE.
9. PROVIDE NECESSARY PROTECTIONS FOR ALL WORKSTATIONS, FURNITURE, PARTITION WALL, FLOORING AND WINDOWS ON THE THIRD FLOOR PRIOR TO COMMENCEMENT OF ANY WORK.
10. CONTRACTOR SHALL REMOVE ALL PROTECTIONS USED ON THIRD FLOOR AS NOTED ABOVE AND CLEAN THE SPACES AS REQUIRED BEFORE THE START OF EACH REGULAR BUSINESS DAY.
11. DRAWING NOTE NO. 9 (PROTECTION) & NOTE NO. 10 (REMOVAL & CLEAN-UP) SHALL BE DONE REPEATEDLY FOR THE DURATION OF WORK PERIOD.

DRAWING NOTES

1. EXISTING OUTDOOR AIR SUPPLY DUCTWORK IN CEILING SPACE OF THIS FLOOR TO REMAIN. (TYPICAL)
2. EXISTING OUTDOOR AIR SUPPLY DUCT RISER TO REMAIN.
3. EXISTING ACTIVE (IN USE) MAIN CHILLED WATER SUPPLY & RETURN PIPING AND MAIN HEATING WATER SUPPLY & RETURN PIPING IN CEILING SPACE OF THIS FLOOR TO REMAIN. (TYPICAL)
4. CUT BACK AND CAP EXISTING OUTDOOR AIR SUPPLY DUCT IN CEILING SPACE OF THIS FLOOR. CONTRACTOR TO CHECK/VERIFY EXACT LOCATION OF DUCTWORK ON SITE. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENINGS AS REQUIRED. (TYPICAL)
5. CUT BACK AND CAP EXISTING CHILLED WATER SUPPLY AND RETURN PIPING IN CEILING SPACE OF THIS FLOOR. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENING AS REQUIRED. (TYPICAL)
6. CUT BACK AND CAP EXISTING HEATING WATER SUPPLY AND RETURN PIPING IN CEILING SPACE OF THIS FLOOR. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENING AS REQUIRED. (TYPICAL)
7. REMOVE EXISTING INACTIVE (NOT IN USE) MAIN CHILLED WATER SUPPLY & RETURN PIPING AND MAIN HEATING WATER SUPPLY & RETURN PIPING IN CEILING SPACE THAT IS SERVICE THE FLOOR-MOUNTED FAN COIL UNITS TO BE DEMOLISHED ON THE 4TH FLOOR. REMOVE ASSOCIATED PIPE BRANCHES, VALVES, INSULATION, HANGERS & SUPPORTS (ONLY FOR BLOCK 'A', 'B' & 'D')
8. EXISTING NEWLY INSTALLED MAIN HEATING SUPPLY AND RETURN PIPE WITH CAPPED & VALVE BRANCH PIPING THAT WILL SERVE THE NEW WALL FIN RADS ON THE 4TH FLOOR TO REMAIN AS IS. (TYPICAL)
9. REMOVE EXISTING ABANDONED (NOT IN USE) OUT DOOR AIR DUCTWORK IN CEILING SPACE THAT IS SERVING THE FLOOR-MOUNTED FAN COIL UNITS TO BE DEMOLISHED ON THE 4TH FLOOR. REMOVE ASSOCIATED DUCT SUPPORTS & HANGERS. (ONLY FOR BLOCK 'A', 'B' & 'D')
10. REMOVE EXISTING CHILLED WATER SUPPLY AND RETURN BRANCH PIPING IN CEILING SPACE OF THIS FLOOR SERVING THE DEMOLISHED FLOOR-MOUNTED FAN COIL UNITS ON THE 4TH FLOOR. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENINGS AS REQUIRED. (TYPICAL)
11. REMOVE EXISTING HEATING WATER SUPPLY AND RETURN BRANCH PIPING IN CEILING SPACE OF THIS FLOOR SERVING THE DEMOLISHED FLOOR-MOUNTED FAN COIL UNITS ON THE 4TH FLOOR. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENINGS AS REQUIRED. (TYPICAL)
12. REMOVE EXISTING OUTDOOR AIR SUPPLY BRANCH DUCT IN CEILING SPACE OF THIS FLOOR SERVING THE DEMOLISHED FLOOR-MOUNTED FAN COIL UNITS ON THE 4TH FLOOR. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENINGS AS REQUIRED. (TYPICAL)
13. DISCONNECT AND CAP EXISTING HOT WATER RETURN PIPING AS SHOWN.
14. DISCONNECT AND CAP EXISTING CHILLED WATER RETURN PIPING AS SHOWN.

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE 3RD FLOOR SHALL ONLY BE DONE AFTER HOURS (5:30 PM TO 8:30 AM). THIS INCLUDES REMOVAL & CAPPING OF OUTDOOR AIR DUCTWORK IN CEILING SPACE, REMOVAL/CAPPING/NEW CONNECTION OF CHILLED WATER PIPES & HEATING WATER PIPES, REMOVAL/CAPPING/NEW CONNECTION OF CONDENSATE DRAIN, FLOOR SLAB CUTTING/PATCHING, E.T.C. CONTRACTOR SHALL COORDINATE WITH REGION'S PM PRIOR TO COMMENCEMENT OF ANY WORK.

EXISTING OUTDOOR AIR INSPECTION

1. MECHANICAL CONTRACTOR SHALL PERFORM A COMPLETE VISUAL INSPECTION OF THE EXISTING SUPPLY AIR DUCT SYSTEM AND REPORT ANY FINDING OF OPEN DUCT BRANCHES, MISSING CAPPED CONNECTIONS, OPENING IN MAIN AND BRANCH DUCTS, BLOCKAGE AND LOOSE CONNECTIONS TO ENGINEER PRIOR TO COMMENCEMENT OF WORK. ALL OPENINGS, BLOCKAGES ETC. ARE TO BE RECTIFIED PRIOR TO PRE-BALANCING.

AREA 'C'

SUBMISSION	DATE	DESCRIPTION
1	03-14-2022	ISSUED FOR 60% REVIEW
2	04-26-2022	ISSUED FOR 80% REVIEW
3	05-31-2022	ISSUED FOR 97% REVIEW
4	06-13-2022	ISSUED FOR TENDER
5	07-21-2022	ISSUED AS PER ADDENDUM M-2

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LICENSED PROFESSIONAL ENGINEER
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06/13/2022
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	4TH
BASE DATE:	01-01-2022

PROJECT:

PROJECT #9907

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100m

DRAWN BY: **S.P.R./G.G.**

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL 3RD FLOOR
AREA 'C'
MECHANICAL DEMOLITION
PLAN

SHEET NUMBER:

M-202

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
3. CONTRACTOR TO COORDINATE WORK ON SITE WITH EXISTING MECHANICAL AND ELECTRICAL SERVICES.
4. WHERE DUCTWORK, PIPING AND EQUIPMENT IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED DUCT/PIPE HANGERS, VALVES, DAMPERS, ETC.
5. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING DRYWALL CEILING TO FACILITATE REMOVAL OF MECHANICAL AND ELECTRICAL SERVICES OUTLINED IN SCOPE OF WORKS.
6. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND ENGINEER, PROVIDE ACCESS PANELS/DOORS AS REQUIRED.
7. ALL REDUNDANT AND OBSOLETE OPENINGS IN SLAB SHALL BE FIRE STOPPED, SEALED, CAPPED, AND MEADE GOOD.
8. CONTROLS CONTRACTOR SHALL SAFELY AND CAREFULLY REMOVE EXISTING SPACE TEMPERATURE SENSORS AND RETURN TO OWNER FOR SPARE PARTS. REMOVAL OF SPACE TEMPERATURE SENSORS SHALL BE DONE BY CONTROLS CONTRACTOR ONLY, NOT BY ANY OTHER TRADERS. ALL OTHER EXISTING CONTROLS (CONTROLLERS, CONTROL VALVES, ETC) SHALL BE DEMOLISHED AND REMOVED FROM SITE.
9. PROVIDE NECESSARY PROTECTIONS FOR ALL WORKSTATIONS, FURNITURE, PARTITION WALL, FLOORING AND WINDOWS ON THE THIRD FLOOR PRIOR TO COMMENCEMENT OF ANY WORK.
10. CONTRACTOR SHALL REMOVE ALL PROTECTIONS USED ON THIRD FLOOR AS NOTED ABOVE AND CLEAN THE SPACES AS REQUIRED BEFORE THE START OF EACH REGULAR BUSINESS DAY.
11. DRAWING NOTE NO. 9 (PROTECTION) & NOTE NO. 10 (REMOVAL & CLEAN-UP) SHALL BE DONE REPEATEDLY FOR THE DURATION OF WORK PERIOD.

DRAWING NOTES

1. EXISTING OUTDOOR AIR SUPPLY DUCTWORK IN CEILING SPACE OF THIS FLOOR TO REMAIN. (TYPICAL)
2. EXISTING OUTDOOR AIR SUPPLY DUCT RISER TO REMAIN.
3. EXISTING ACTIVE (IN USE) MAIN CHILLED WATER SUPPLY & RETURN PIPING AND MAIN HEATING WATER SUPPLY & RETURN PIPING IN CEILING SPACE OF THIS FLOOR TO REMAIN. (TYPICAL)
4. CONNECT NEW OUTDOOR AIR SUPPLY DUCT TO EXISTING DUCTWORK AND MAKE GOOD INSULATION.
5. NEW OUTDOOR AIR SUPPLY DUCT UP TO 4TH FLOOR. PROVIDE FIRE DAMPER AT FLOOR SLAB PENETRATION. PROVIDE AN ALLOWANCE FOR FLOOR SLAB CUTTING/DRILLING AS REQUIRED. FOR CONTINUATION REFER TO DRAWING NO. M-205 & M-207.
6. PROVIDE NEW CHILLED WATER SUPPLY & HEATING WATER SUPPLY PIPES AND CONNECT TO EXISTING INTERIOR CHILLED WATER SUPPLY & HATING WATER SUPPLY AT THIS APPROXIMATE LOCATION. MAKE GOOD INSULATION. PROVIDE ISOLATION VALVES & VALVED DRAIN PLUG WITH CHAIN.
7. RUN NEW CHILLED WATER SUPPLY & HEATING WATER SUPPLY PIPES UP TO 4TH FLOOR. FOR CONTINUATION REFER TO DRAWING NO. M-400, M-401 & M-402. MAKE GOOD INSULATION. PROVIDE ISOLATION VALVES & VALVED DRAIN PLUG WITH CHAIN. PROVIDE PIPE SUPPORT AND FIRE STOPPING AT FLOOR PENETRATIONS.
8. CONNECT EXISTING VALVED HOT WATER RETURN PIPE TO EXISTING SERVICES AS SHOWN. MAKE GOOD INSULATION AS REQUIRED. EXACT CONNECTION TO BE VERIFIED ON SITE.
9. CONNECT EXISTING VALVED HOT WATER SUPPLY PIPE TO EXISTING SERVICES AS SHOWN. MAKE GOOD INSULATION AS REQUIRED. EXACT CONNECTION TO BE VERIFIED ON SITE.
10. PROVIDE NEW 20# HEATING WATER SUPPLY/RETURN PIPE AND CONNECT TO EXISTING SERVICES. EXTEND NEW HEATING WATER SUPPLY/RETURN PIPE UP TO 4TH FLOOR AND CONNECT TO NEW FLOOR MOUNTED WALL FIN HEATER. PROVIDE NEW FLOOR SLAB OPENINGS FOR HEATING SUPPLY & RETURN PIPES. ENSURE PIPES ARE WITHIN WALL FIN ENCLOSURE. PROVIDE AN ALLOWANCE FOR FLOOR SLAB CUTTING/ DRILLING/ FIRE-STOPPING AS REQUIRED. (TYPICAL)
11. PROVIDE NEW 20# BY-PASS LINE BETWEEN HEATING SUPPLY AND RETURN PIPE C/W EQL BY-PASS ACTUATOR WITH 2-WAY VALVE. BY-PASS ACTUATOR SHALL BE INTERLOCKED WITH BUILDING AUTOMATION SYSTEM.
12. EXISTING NEWLY INSTALLED MAIN HEATING SUPPLY AND RETURN PIPE TO REMAIN. (TYPICAL)
13. PRESSURE TEST ALL NEW PIPING FOR 24 HOURS WITH NO LOSS OF PRESSURE PRIOR TO INSULATING FITTINGS AND OPENING MAIN VALVES. (TYPICAL)
14. INSTALL NEW HEATING WATER SUPPLY AND RETURN PIPING C/W INSULATION. SIZES OF NEW HEATING PIPING SHALL MATCH EXISTING HEATING PIPING SIZES. NEW HEATING PIPING SHALL BE SCHEDULE 40 BLACK STEEL. MECHANICAL PIPE FITTINGS ARE PERMITTED IN ACCESSIBLE SPACES ONLY. PROVIDE NEW PIPE HANGERS AS REQUIRED. INSTALL NEW HEATING PIPING TIGHT TO EXISTING SLAB AND BEAMS TO ALLOW FOR FUTURE HVAC EQUIPMENT/ TERMINAL UNITS/ DUCTWORK/ DIFFUSERS INSTALLATIONS.
15. NEW CHILLED WATER RETURN & HEATING WATER RETURN PIPES FROM 4TH FLOOR. EXTEND AND CONNECT TO EXISTING INTERIOR CHILLED WATER RETURN AND HEATING WATER RETURN PIPE RISERS. EXACT CONNECTION TO BE VERIFIED ON SITE. PROVIDE PIPE SUPPORT AND FIRE-STOPPING AT FLOOR PENETRATIONS. PROVIDE ISOLATION VALVES & VALVED DRAIN PLUG WITH CHAIN.
16. CONNECT NEW HOT WATER RETURN PIPE TO EXISTING PERIMETER HEATING WATER RETURN AS SHOWN. PROVIDE ISOLATION VALVES & VALVED DRAIN PLUG WITH CHAIN. MAKE GOOD INSULATION AS REQUIRED. EXACT CONNECTION TO BE VERIFIED ON SITE.
17. CONNECT NEW HOT WATER SUPPLY PIPE TO EXISTING PERIMETER HEATING WATER SUPPLY AS SHOWN. PROVIDE ISOLATION VALVES & VALVED DRAIN PLUG WITH CHAIN. MAKE GOOD INSULATION AS REQUIRED. EXACT CONNECTION TO BE VERIFIED ON SITE.
18. CONNECT OUTDOOR AIR SUPPLY DUCT TO EXISTING DUCTWORK AND MAKE GOOD INSULATION. PROVIDE BALANCING DAMPER ON NEW BRANCH DUCTWORK & EXISTING DUCTWORK AS SHOWN. BALANCE TO AIR QUANTITY AS INDICATED. (TYPICAL)

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE 3RD FLOOR SHALL ONLY BE DONE AFTER HOURS (5:30 PM TO 8:30 AM). THIS INCLUDES REMOVAL & CAPPING OF OUTDOOR AIR DUCTWORK IN CEILING SPACE, REMOVAL/CAPPING/NEW CONNECTION OF CHILLED WATER PIPES & HEATING WATER PIPES, REMOVAL/CAPPING/NEW CONNECTION OF CONDENSATE DRAIN, FLOOR SLAB CUTTING/PATCHING, E.T.C.. CONTRACTOR SHALL COORDINATE WITH REGION'S PM PRIOR TO COMMENCEMENT OF ANY WORK.

FINAL AIR BALANCING NOTE

1. PROVIDE FINAL AIR BALANCING AFTER COMPLETION OF MECHANICAL WORK, INCLUDING ALL EXISTING AND NEW OUTDOOR SUPPLY AIR BRANCH DUCTS SUPPLIED TO GROUND FLOOR, 2ND FLOOR, 3RD FLOOR, 4TH FLOOR AND 5TH FLOOR. SUBMIT THREE (3) COPIES OF THE AIR BALANCE REPORT TO THE CONSULTANT FOR REVIEW

AREA 'A'

SUBMISSION	DATE	DESCRIPTION
1	03-14-2022	ISSUED FOR 60% REVIEW
2	04-26-2022	ISSUED FOR 80% REVIEW
3	05-04-2022	ISSUED FOR REVIEW
4	06-13-2022	ISSUED FOR TENDER
5	07-21-2022	ISSUED AS PER ADDENDUM M-2

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LICENSED PROFESSIONAL ENGINEER
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PROPERTY SERVICES

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DRAWN BY: **S.P.R./G.G.**

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL 3RD FLOOR
AREA 'A'
MECHANICAL NEW LAYOUT

SHEET NUMBER:

M-206

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
3. CONTRACTOR TO COORDINATE WORK ON SITE WITH EXISTING MECHANICAL AND ELECTRICAL SERVICES.
4. WHERE DUCTWORK, PIPING AND EQUIPMENT IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED DUCT/PIPE HANGERS, VALVES, DAMPERS, ETC.
5. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING DRYWALL CEILING TO FACILITATE REMOVAL OF MECHANICAL AND ELECTRICAL SERVICES OUTLINED IN SCOPE OF WORKS.
6. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND ENGINEER, PROVIDE ACCESS PANELS/DOORS AS REQUIRED.
7. ALL REDUNDANT AND OBSOLETE OPENINGS IN SLAB SHALL BE FIRE STOPPED, SEALED, CAPPED, AND MEADE GOOD.
8. CONTROLS CONTRACTOR SHALL SAFELY AND CAREFULLY REMOVE EXISTING SPACE TEMPERATURE SENSORS AND RETURN TO OWNER FOR SPARE PARTS. REMOVAL OF SPACE TEMPERATURE SENSORS SHALL BE DONE BY CONTROLS CONTRACTOR ONLY, NOT BY ANY OTHER TRADERS. ALL OTHER EXISTING CONTROLS (CONTROLLERS, CONTROL VALVES, ETC) SHALL BE DEMOLISHED AND REMOVED FROM SITE.
9. PROVIDE NECESSARY PROTECTIONS FOR ALL WORKSTATIONS, FURNITURE, PARTITION WALL, FLOORING AND WINDOWS ON THE THIRD FLOOR PRIOR TO COMMENCEMENT OF ANY WORK.
10. CONTRACTOR SHALL REMOVE ALL PROTECTIONS USED ON THIRD FLOOR AS NOTED ABOVE AND CLEAN THE SPACES AS REQUIRED BEFORE THE START OF EACH REGULAR BUSINESS DAY.
11. DRAWING NOTE NO. 9 (PROTECTION) & NOTE NO. 10 (REMOVAL & CLEAN-UP) SHALL BE DONE REPEATEDLY FOR THE DURATION OF WORK PERIOD.

DRAWING NOTES

1. EXISTING OUTDOOR AIR SUPPLY DUCTWORK IN CEILING SPACE OF THIS FLOOR TO REMAIN. (TYPICAL)
2. EXISTING OUTDOOR AIR SUPPLY DUCT RISER TO REMAIN.
3. EXISTING ACTIVE (IN USE) MAIN CHILLED WATER SUPPLY & RETURN PIPING AND MAIN HEATING WATER SUPPLY & RETURN PIPING IN CEILING SPACE OF THIS FLOOR TO REMAIN. (TYPICAL)
4. CONNECT NEW OUTDOOR AIR SUPPLY DUCT TO EXISTING DUCTWORK AND MAKE GOOD INSULATION.
5. NEW OUTDOOR AIR SUPPLY DUCT UP TO 4TH FLOOR. PROVIDE FIRE DAMPER AT FLOOR SLAB PENETRATION. PROVIDE AN ALLOWANCE FOR FLOOR SLAB CUTTING/DRILLING AS REQUIRED. FOR CONTINUATION REFER TO DRAWING NO. M-205 & M-207.
6. PROVIDE NEW CHILLED WATER SUPPLY & HEATING WATER SUPPLY PIPES AND CONNECT TO EXISTING INTERIOR CHILLED WATER SUPPLY & HATING WATER SUPPLY AT THIS APPROXIMATE LOCATION. MAKE GOOD INSULATION. PROVIDE ISOLATION VALVES & VALVED DRAIN PLUG WITH CHAIN.
7. RUN NEW CHILLED WATER SUPPLY & HEATING WATER SUPPLY PIPES UP TO 4TH FLOOR. FOR CONTINUATION REFER TO DRAWING NO. M-400, M-401 & M-402. MAKE GOOD INSULATION. PROVIDE ISOLATION VALVES & VALVED DRAIN PLUG WITH CHAIN. PROVIDE PIPE SUPPORT AND FIRE STOPPING AT FLOOR PENETRATIONS.
8. CONNECT EXISTING VALVED HOT WATER RETURN PIPE TO EXISTING SERVICES AS SHOWN. MAKE GOOD INSULATION AS REQUIRED. EXACT CONNECTION TO BE VERIFIED ON SITE.
9. CONNECT EXISTING VALVED HOT WATER SUPPLY PIPE TO EXISTING SERVICES AS SHOWN. MAKE GOOD INSULATION AS REQUIRED. EXACT CONNECTION TO BE VERIFIED ON SITE.
10. PROVIDE NEW 20# HEATING WATER SUPPLY/RETURN PIPE AND CONNECT TO EXISTING SERVICES. EXTEND NEW HEATING WATER SUPPLY/RETURN PIPE UP TO 4TH FLOOR AND CONNECT TO NEW FLOOR MOUNTED WALL FIN HEATER. PROVIDE NEW FLOOR SLAB OPENINGS FOR HEATING SUPPLY & RETURN PIPES. ENSURE PIPES ARE WITHIN WALL FIN ENCLOSURE. PROVIDE AN ALLOWANCE FOR FLOOR SLAB CUTTING/ DRILLING/ FIRE-STOPPING AS REQUIRED. (TYPICAL)
11. PROVIDE NEW 20# BY-PASS LINE BETWEEN HEATING SUPPLY AND RETURN PIPE C/W EQ. BY-PASS ACTUATOR WITH 2-WAY VALVE. BY-PASS ACTUATOR SHALL BE INTERLOCKED WITH BUILDING AUTOMATION SYSTEM.
12. EXISTING NEWLY INSTALLED MAIN HEATING SUPPLY AND RETURN PIPE TO REMAIN. (TYPICAL)
13. PRESSURE TEST ALL NEW PIPING FOR 24 HOURS WITH NO LOSS OF PRESSURE PRIOR TO INSULATING FITTINGS AND OPENING MAIN VALVES. (TYPICAL)
14. INSTALL NEW HEATING WATER SUPPLY AND RETURN PIPING C/W INSULATION. SIZES OF NEW HEATING PIPING SHALL MATCH EXISTING HEATING PIPING SIZES. NEW HEATING PIPING SHALL BE SCHEDULE 40 BLACK STEEL. NOTMALLY PIPE FITTINGS ARE PERMITTED IN ACCESSIBLE SPACES ONLY. PROVIDE NEW PIPE HANGERS AS REQUIRED. INSTALL NEW HEATING PIPING TIGHT TO EXISTING SLAB AND BEAMS TO ALLOW FOR FUTURE HVAC EQUIPMENT/ TERMINAL UNITS/ DUCTWORK/ DIFFUSERS INSTALLATIONS.
15. NEW CHILLED WATER RETURN & HEATING WATER RETURN PIPES FROM 4TH FLOOR. EXTEND AND CONNECT TO EXISTING INTERIOR CHILLED WATER RETURN AND HEATING WATER RETURN PIPE RISERS. EXACT CONNECTION TO BE VERIFIED ON SITE. PROVIDE PIPE SUPPORT AND FIRE-STOPPING AT FLOOR PENETRATIONS. PROVIDE ISOLATION VALVES & VALVED DRAIN PLUG WITH CHAIN.
16. CONNECT NEW HOT WATER RETURN PIPE TO EXISTING PERIMETER HEATING WATER RETURN AS SHOWN. PROVIDE ISOLATION VALVES & VALVED DRAIN PLUG WITH CHAIN. MAKE GOOD INSULATION AS REQUIRED. EXACT CONNECTION TO BE VERIFIED ON SITE.
17. CONNECT NEW HOT WATER SUPPLY PIPE TO EXISTING PERIMETER HEATING WATER SUPPLY AS SHOWN. PROVIDE ISOLATION VALVES & VALVED DRAIN PLUG WITH CHAIN. MAKE GOOD INSULATION AS REQUIRED. EXACT CONNECTION TO BE VERIFIED ON SITE.
18. CONNECT OUTDOOR AIR SUPPLY DUCT TO EXISTING DUCTWORK AND MAKE GOOD INSULATION. PROVIDE BALANCING DAMPER ON NEW BRANCH DUCTWORK & EXISTING DUCTWORK AS SHOWN. BALANCE TO AIR QUANTITY AS INDICATED. (TYPICAL)

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE 3RD FLOOR SHALL ONLY BE DONE AFTER HOURS (5:30 PM TO 8:30 AM). THIS INCLUDES REMOVAL & CAPPING OF OUTDOOR AIR DUCTWORK IN CEILING SPACE, REMOVAL/CAPPING/NEW CONNECTION OF CHILLED WATER PIPES & HEATING WATER PIPES, REMOVAL/CAPPING/NEW CONNECTION OF CONDENSATE DRAIN, FLOOR SLAB CUTTING/PATCHING, E.T.C. CONTRACTOR SHALL COORDINATE WITH REGION'S PM PRIOR TO COMMENCEMENT OF ANY WORK.

FINAL AIR BALANCING NOTE

1. PROVIDE FINAL AIR BALANCING AFTER COMPLETION OF MECHANICAL WORK, INCLUDING ALL EXISTING AND NEW OUTDOOR SUPPLY AIR BRANCH DUCTS SUPPLIED TO GROUND FLOOR, 2ND FLOOR, 3RD FLOOR, 4TH FLOOR AND 5TH FLOOR. SUBMIT THREE (3) COPIES OF THE AIR BALANCE REPORT TO THE CONSULTANT FOR REVIEW

AREA 'B'

SUBMISSION	DATE	DESCRIPTION
1	03-14-2022	ISSUED FOR 60% REVIEW
2	04-26-2022	ISSUED FOR 80% REVIEW
3	05-31-2022	ISSUED FOR PROCUREMENT
4	06-13-2022	ISSUED FOR TENDER
5	07-21-2022	ISSUED AS PER ADDENDUM M-2

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LICENSED PROFESSIONAL ENGINEER
G. YOUDELIS
06/13/2022
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	4TH
BASE DATE:	01-01-2022

PROJECT:

PROJECT #9907

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100m

DRAWN BY: **S.P.R./G.G.**

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL 3RD FLOOR
AREA 'B'
MECHANICAL NEW LAYOUT

SHEET NUMBER:

M-207

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
3. CONTRACTOR TO COORDINATE WORK ON SITE WITH EXISTING MECHANICAL AND ELECTRICAL SERVICES.
4. WHERE DUCTWORK, PIPING AND EQUIPMENT IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED DUCT/PIPE HANGERS, VALVES, DAMPERS, ETC.
5. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING DRYWALL CEILING TO FACILITATE REMOVAL OF MECHANICAL AND ELECTRICAL SERVICES OUTLINED IN SCOPE OF WORKS.
6. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND ENGINEER, PROVIDE ACCESS PANELS/DOORS AS REQUIRED.
7. ALL REDUNDANT AND OBSOLETE OPENINGS IN SLAB SHALL BE FIRE STOPPED, SEALED, CAPPED, AND MEADE GOOD.
8. CONTROLS CONTRACTOR SHALL SAFELY AND CAREFULLY REMOVE EXISTING SPACE TEMPERATURE SENSORS AND RETURN TO OWNER FOR SPARE PARTS. REMOVAL OF SPACE TEMPERATURE SENSORS SHALL BE DONE BY CONTROLS CONTRACTOR ONLY, NOT BY ANY OTHER TRADERS. ALL OTHER EXISTING CONTROLS (CONTROLLERS, CONTROL VALVES, ETC) SHALL BE DEMOLISHED AND REMOVED FROM SITE.
9. PROVIDE NECESSARY PROTECTIONS FOR ALL WORKSTATIONS, FURNITURE, PARTITION WALL, FLOORING AND WINDOWS ON THE THIRD FLOOR PRIOR TO COMMENCEMENT OF ANY WORK.
10. CONTRACTOR SHALL REMOVE ALL PROTECTIONS USED ON THIRD FLOOR AS NOTED ABOVE AND CLEAN THE SPACES AS REQUIRED BEFORE THE START OF EACH REGULAR BUSINESS DAY.
11. DRAWING NOTE NO. 9 (PROTECTION) & NOTE NO. 10 (REMOVAL & CLEAN-UP) SHALL BE DONE REPEATEDLY FOR THE DURATION OF WORK PERIOD.

DRAWING NOTES

1. EXISTING OUTDOOR AIR SUPPLY DUCTWORK IN CEILING SPACE OF THIS FLOOR TO REMAIN. (TYPICAL)
2. EXISTING OUTDOOR AIR SUPPLY DUCT RISER TO REMAIN.
3. EXISTING ACTIVE (IN USE) MAIN CHILLED WATER SUPPLY & RETURN PIPING AND MAIN HEATING WATER SUPPLY & RETURN PIPING IN CEILING SPACE OF THIS FLOOR TO REMAIN. (TYPICAL)
4. CONNECT NEW OUTDOOR AIR SUPPLY DUCT TO EXISTING DUCTWORK AND MAKE GOOD INSULATION.
5. NEW OUTDOOR AIR SUPPLY DUCT UP TO 4TH FLOOR. PROVIDE FIRE DAMPER AT FLOOR SLAB PENETRATION. PROVIDE AN ALLOWANCE FOR FLOOR SLAB CUTTING/DRILLING AS REQUIRED. FOR CONTINUATION REFER TO DRAWING NO. M-206 & M-207.
6. PROVIDE NEW CHILLED WATER SUPPLY & HEATING WATER SUPPLY PIPES AND CONNECT TO EXISTING INTERIOR CHILLED WATER SUPPLY & HEATING WATER SUPPLY AT THIS APPROXIMATE LOCATION. MAKE GOOD INSULATION. PROVIDE ISOLATION VALVES & VALVED DRAIN PLUG WITH CHAIN.
7. RUN NEW CHILLED WATER SUPPLY & HEATING WATER SUPPLY PIPES UP TO 4TH FLOOR. FOR CONTINUATION REFER TO DRAWING NO. M-400, M-401 & M-402. MAKE GOOD INSULATION. PROVIDE ISOLATION VALVES & VALVED DRAIN PLUG WITH CHAIN. PROVIDE PIPE SUPPORT AND FIRE STOPPING AT FLOOR PENETRATIONS.
8. CONNECT EXISTING VALVED HOT WATER RETURN PIPE TO EXISTING SERVICES AS SHOWN. MAKE GOOD INSULATION AS REQUIRED. EXACT CONNECTION TO BE VERIFIED ON SITE.
9. CONNECT EXISTING VALVED HOT WATER SUPPLY PIPE TO EXISTING SERVICES AS SHOWN. MAKE GOOD INSULATION AS REQUIRED. EXACT CONNECTION TO BE VERIFIED ON SITE.
10. PROVIDE NEW 20ø HEATING WATER SUPPLY/RETURN PIPE AND CONNECT TO EXISTING SERVICES. EXTEND NEW HEATING WATER SUPPLY/RETURN PIPE UP TO 4TH FLOOR AND CONNECT TO NEW FLOOR MOUNTED WALL FIN HEATER. PROVIDE NEW FLOOR SLAB OPENINGS FOR HEATING SUPPLY & RETURN PIPES. ENSURE PIPES ARE WITHIN WALL FIN ENCLOSURE. PROVIDE AN ALLOWANCE FOR FLOOR SLAB CUTTING/ DRILLING/ FIRE-STOPPING AS REQUIRED. (TYPICAL)
11. PROVIDE NEW 20ø BY-PASS LINE BETWEEN HEATING SUPPLY AND RETURN PIPE C/W EQL BY-PASS ACTUATOR WITH 2-WAY VALVE. BY-PASS ACTUATOR SHALL BE INTERLOCKED WITH BUILDING AUTOMATION SYSTEM.
12. EXISTING NEWLY INSTALLED MAIN HEATING SUPPLY AND RETURN PIPE TO REMAIN. (TYPICAL)
13. PRESSURE TEST ALL NEW PIPING FOR 24 HOURS WITH NO LOSS OF PRESSURE PRIOR TO INSULATING FITTINGS AND OPENING MAIN VALVES. (TYPICAL)
14. INSTALL NEW HEATING WATER SUPPLY AND RETURN PIPING C/W INSULATION. SIZES OF NEW HEATING PIPING SHALL MATCH EXISTING HEATING PIPING SIZES. NEW HEATING PIPING SHALL BE SCHEDULE 40 BLACK STEEL. MECHANICAL PIPE FITTINGS ARE PERMITTED IN ACCESSIBLE SPACES ONLY. PROVIDE NEW PIPE HANGERS AS REQUIRED. INSTALL NEW HEATING PIPING TIGHT TO EXISTING SLAB AND BEAMS TO ALLOW FOR FUTURE HVAC EQUIPMENT/ TERMINAL UNITS/ DUCTWORK/ DIFFUSERS INSTALLATIONS.
15. NEW CHILLED WATER RETURN & HEATING WATER RETURN PIPES FROM 4TH FLOOR. EXTEND AND CONNECT TO EXISTING INTERIOR CHILLED WATER RETURN AND HEATING WATER RETURN PIPE RISERS. EXACT CONNECTION TO BE VERIFIED ON SITE. PROVIDE PIPE SUPPORT AND FIRE-STOPPING AT FLOOR PENETRATIONS. PROVIDE ISOLATION VALVES & VALVED DRAIN PLUG WITH CHAIN.
16. CONNECT NEW HOT WATER RETURN PIPE TO EXISTING PERIMETER HEATING WATER RETURN AS SHOWN. PROVIDE ISOLATION VALVES & VALVED DRAIN PLUG WITH CHAIN. MAKE GOOD INSULATION AS REQUIRED. EXACT CONNECTION TO BE VERIFIED ON SITE.
17. CONNECT NEW HOT WATER SUPPLY PIPE TO EXISTING PERIMETER HEATING WATER SUPPLY AS SHOWN. PROVIDE ISOLATION VALVES & VALVED DRAIN PLUG WITH CHAIN. MAKE GOOD INSULATION AS REQUIRED. EXACT CONNECTION TO BE VERIFIED ON SITE.
18. CONNECT OUTDOOR AIR SUPPLY DUCT TO EXISTING DUCTWORK AND MAKE GOOD INSULATION. PROVIDE BALANCING DAMPER ON NEW BRANCH DUCTWORK & EXISTING DUCTWORK AS SHOWN. BALANCE TO AIR QUANTITY AS INDICATED. (TYPICAL)

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE 3RD FLOOR SHALL ONLY BE DONE AFTER HOURS (5:30 PM TO 8:30 AM). THIS INCLUDES REMOVAL & CAPPING OF OUTDOOR AIR DUCTWORK IN CEILING SPACE, REMOVAL/CAPPING/NEW CONNECTION OF CHILLED WATER PIPES & HEATING WATER PIPES, REMOVAL/CAPPING/NEW CONNECTION OF CONDENSATE DRAIN, FLOOR SLAB CUTTING/PATCHING, E.T.C.. CONTRACTOR SHALL COORDINATE WITH REGION'S PM PRIOR TO COMMENCEMENT OF ANY WORK.

FINAL AIR BALANCING NOTE

1. PROVIDE FINAL AIR BALANCING AFTER COMPLETION OF MECHANICAL WORK, INCLUDING ALL EXISTING AND NEW OUTDOOR SUPPLY AIR BRANCH DUCTS SUPPLIED TO GROUND FLOOR, 2ND FLOOR, 3RD FLOOR, 4TH FLOOR AND 5TH FLOOR. SUBMIT THREE (3) COPIES OF THE AIR BALANCE REPORT TO THE CONSULTANT FOR REVIEW

AREA 'C'

SUBMISSION	DATE	DESCRIPTION
1	03-14-2022	ISSUED FOR 60% REVIEW
2	04-26-2022	ISSUED FOR 80% REVIEW
3	05-31-2022	ISSUED FOR BRANCH REVIEW
4	06-13-2022	ISSUED FOR TENDER
5	07-21-2022	ISSUED AS PER ADDENDUM M-2

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LICENSED PROFESSIONAL ENGINEER
GUY YOUDELIS
06/13/2022
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	4TH
BASE DATE:	01-01-2022

PROJECT:

PROJECT #9907

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100m

DRAWN BY: **S.P.R./G.G.**

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL 3RD FLOOR
AREA 'C'
MECHANICAL NEW LAYOUT

SHEET NUMBER:

M-208

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
3. CONTRACTOR TO COORDINATE WORK ON SITE WITH EXISTING MECHANICAL AND ELECTRICAL SERVICES.
4. WHERE DUCTWORK, PIPING AND EQUIPMENT IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED DUCT/PIPE HANGERS, VALVES, DAMPERS, ETC.
5. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING DRYWALL CEILING TO FACILITATE REMOVAL OF MECHANICAL AND ELECTRICAL SERVICES OUTLINED IN SCOPE OF WORKS.
6. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND ENGINEER, PROVIDE ACCESS PANELS/DOORS AS REQUIRED.
7. ALL REDUNDANT AND OBSOLETE OPENINGS IN SLAB SHALL BE FIRE STOPPED, SEALED, CAPPED, AND MADE GOOD.
8. CONTROLS CONTRACTOR SHALL SAFELY AND CAREFULLY REMOVE EXISTING SPACE TEMPERATURE SENSORS AND RETURN TO OWNER FOR SPARE PARTS. REMOVAL OF SPACE TEMPERATURE SENSORS SHALL BE DONE BY CONTROLS CONTRACTOR ONLY, NOT BY ANY OTHER TRADERS. ALL OTHER EXISTING CONTROLS (CONTROLLERS, CONTROL VALVES, ETC) SHALL BE DEMOLISHED AND REMOVED FROM SITE.
9. INSTALLATION HEIGHT OF TEMPERATURE SENSORS SHALL BE 4'-0". EXACT LOCATION TO BE COORDINATED ON SITE WITH THE ARCHITECT. (TYPICAL FOR ALL)

DRAWING NOTES

1. NEW OUTDOOR AIR SUPPLY DUCT FROM THIRD FLOOR C/W FIRE DAMPER.
2. NEW RETURN AIR TRANSFER DUCT. SIZE AS INDICATED. REFER TO DETAIL NO. 14/M-104 FOR DETAILS. (TYPICAL)
3. PROVIDE NEW FAN COIL UNIT IN CEILING SPACE C/W ASSOCIATED CONTROLS, HANGERS, SUPPORTS, ISOLATORS AND SUPPLY/RETURN AIR DUCTWORK. REFER TO M-100 SERIES FOR SPECIFICATIONS & DETAILS. INSTALL UNIT TIGHT TO CEILING SLAB AS HIGH AS POSSIBLE. (TYPICAL)
4. NEW OPEN-ENDED OUTDOOR AIR SUPPLY DUCT C/W BALANCING DAMPER. DUCT SHALL BE INDIRECTLY TERMINATED CLOSE TO RETURN AIR SIDE OF FAN COIL UNIT. BALANCE TO AIR QUANTITIES AS INDICATED. ALL FRESH AIR DUCT SHALL BE ROUND DUCT AS SHOWN. BALANCING DAMPER SHALL BE LOCATED ABOVE T-BAR CEILING. (TYPICAL)
5. PROVIDE NEW LINEAR SLOT DIFFUSER C/W PLENUM BOX. DIFFUSER SHALL HAVE A CABLE OPERATED DAMPER MOUNTED ON NECK. BALANCE TO AIR QUANTITY AS INDICATED. REFER TO DRAWING NO. M-100 & 15/M-104 FOR SPECIFICATIONS AND DETAILS. (TYPICAL)
6. PROVIDE 1" WIDE ARCHITECTURAL SLOT FOR RETURN AIR. RETURN SLOT SHALL HAVE SIGHT BAFFLE ABOVE. COORDINATE EXACT LOCATION ON SITE WITH THE ARCHITECT.
7. PROVIDE FRESH AIR SUPPLY FAN IN CEILING SPACE C/W ASSOCIATED UNIT-MOUNTED SPEED CONTROLLER, HANGERS, SUPPORTS, ISOLATORS AND DUCTWORK. FAN TO BE INTERLOCKED WITH EXISTING BAS. REFER TO DRAWING NO. M-100 & M-104 FOR SPECIFICATIONS & DETAILS.
8. PROVIDE NEW SQUARE CONE DIFFUSER AND BALANCE TO AIR QUANTITY AS INDICATED. REFER TO DRAWING NO. M-100 & 12/M-104 FOR SPECIFICATIONS AND DETAILS. (TYPICAL)
9. PROVIDE NEW RETURN AIR GRILLES. REFER TO DRAWING NO. M-100 FOR SPECIFICATIONS. (TYPICAL)
10. EXISTING AVERAGING TEMPERATURE SENSOR FOR THIS FLOOR C/W CONTROL WIRING TO REMAIN.

NOTES

ALL MECHANICAL WORKS INVOLVED IN 3RD FLOOR SHALL BE DONE AFTER HOURS (5:30 PM TO 8:30 AM). INCLUDE REMOVING/CAPPING CEILING SPACE OUTDOOR AIR DUCTWORK, CHILLED WATER PIPES/HEATING WATER PIPES REMOVING/CAPPING/ NEW CONNECTING, FLOOR CUTTING/PATCHING. CONDENSATE DRAIN REMOVING/NEW CONNECTING E.T.C.. CONTRACTOR SHALL COORDINATE WITH REGION'S PM PRIOR TO ANY WORK COMMENCING.

FINAL AIR BALANCING NOTE

1. PROVIDE FINAL AIR BALANCING AFTER COMPLETION OF MECHANICAL WORK, INCLUDING ALL EXISTING AND NEW OUTDOOR SUPPLY AIR BRANCH DUCTS SUPPLIED TO GROUND FLOOR, 2ND FLOOR, 3RD FLOOR, 4TH FLOOR AND 5TH FLOOR. SUBMIT THREE (3) COPIES OF THE AIR BALANCE REPORT TO THE CONSULTANT FOR REVIEW

FAN COIL UNIT NOTES

1. PRIOR TO FAN COIL UNIT INSTALLATION, CONTRACTOR TO PROVIDE A MOCK-UP OF THE HORIZONTAL FAN COIL UNIT FOR YORK REGION'S PM & CONSULTANT'S REVIEW AND COMMENTS. INSTALLATION OF FAN COIL UNIT SHALL NOT PROCEED WITHOUT APPROVAL FROM YORK REGION'S PM & CONSULTANTS.
2. CONTRACTOR TO ENSURE NEW FAN COIL UNIT FILTER RACK IS SECURELY ATTACHED AT THE RETURN AIR SIDE OF THE UNIT. OPEN-ENDED OUTDOOR AIR SUPPLY DUCT SHALL BE INDIRECTLY TERMINATED CLOSE TO RETURN AIR SIDE OF FAN COIL UNIT. REFER TO DETAIL NO. 8/M-103.
3. FILTER RACK SHALL BE SIZE TO ACCEPT FILTER SIZES AS PER JOHNSON'S CONTROLS FILTER SIZE GUIDE BELOW:

   3.1 FHP-003 (1/2 TON) FILTER SIZE: 19"x10.5"x1"
   3.2 FHP-006 (1 TON) FILTER SIZE: 33"x10.5"x1"
   3.3 FHP-008 (1-1/4 TON) FILTER SIZE: 2 SETS OF 19"x10.5"x1"

AREA 'A'

SUBMISSION	DATE	DESCRIPTION
1	03-14-2022	ISSUED FOR 60% REVIEW
2	04-26-2022	ISSUED FOR 80% REVIEW
3	05-31-2022	ISSUED FOR 97% REVIEW
4	06-13-2022	ISSUED FOR TENDER
5	07-21-2022	ISSUED AS PER ADDENDUM M-2

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LICENSED PROFESSIONAL ENGINEER
G.P. YOUDELIS
06/13/2022
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	4TH
BASE DATE:	01-01-2022

PROJECT:

PROJECT #9907

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100m

DRAWN BY: **S.P.R./G.G.**

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL 4TH FLOOR
AREA 'A'
HVAC NEW LAYOUT

SHEET NUMBER:

M-209

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
3. CONTRACTOR TO COORDINATE WORK ON SITE WITH EXISTING MECHANICAL AND ELECTRICAL SERVICES.
4. WHERE DUCTWORK, PIPING AND EQUIPMENT IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED DUCT/PIPE HANGERS, VALVES, DAMPERS, ETC.
5. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING DRYWALL CEILING TO FACILITATE REMOVAL OF MECHANICAL AND ELECTRICAL SERVICES OUTLINED IN SCOPE OF WORKS.
6. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND ENGINEER, PROVIDE ACCESS PANELS/DOORS AS REQUIRED.
7. ALL REDUNDANT AND OBSOLETE OPENINGS IN SLAB SHALL BE FIRE STOPPED, SEALED, CAPPED, AND MADE GOOD.
8. CONTROLS CONTRACTOR SHALL SAFELY AND CAREFULLY REMOVE EXISTING SPACE TEMPERATURE SENSORS AND RETURN TO OWNER FOR SPARE PARTS. REMOVAL OF SPACE TEMPERATURE SENSORS SHALL BE DONE BY CONTROLS CONTRACTOR ONLY, NOT BY ANY OTHER TRADERS. ALL OTHER EXISTING CONTROLS (CONTROLLERS, CONTROL VALVES, ETC) SHALL BE DEMOLISHED AND REMOVED FROM SITE.
9. INSTALLATION HEIGHT OF TEMPERATURE SENSORS SHALL BE 4'-0". EXACT LOCATION TO BE COORDINATED ON SITE WITH THE ARCHITECT. (TYPICAL FOR ALL)

DRAWING NOTES

1. NEW OUTDOOR AIR SUPPLY DUCT FROM THIRD FLOOR C/W FIRE DAMPER.
2. NEW RETURN AIR TRANSFER DUCT. SIZE AS INDICATED. REFER TO DETAIL NO. 14/M-104 FOR DETAILS. (TYPICAL)
3. PROVIDE NEW FAN COIL UNIT IN CEILING SPACE C/W ASSOCIATED CONTROLS, HANGERS, SUPPORTS, ISOLATORS AND SUPPLY/RETURN AIR DUCTWORK. REFER TO M-100 SERIES FOR SPECIFICATIONS & DETAILS. INSTALL UNIT TIGHT TO CEILING SLAB AS HIGH AS POSSIBLE. (TYPICAL)
4. NEW OPEN-ENDED OUTDOOR AIR SUPPLY DUCT C/W BALANCING DAMPER. DUCT SHALL BE INDIRECTLY TERMINATED CLOSE TO RETURN AIR SIDE OF FAN COIL UNIT. BALANCE TO AIR QUANTITIES AS INDICATED. ALL FRESH AIR DUCT SHALL BE ROUND DUCT AS SHOWN. BALANCING DAMPER SHALL BE LOCATED ABOVE T-BAR CEILING. (TYPICAL)
5. PROVIDE NEW LINEAR SLOT DIFFUSER C/W PLENUM BOX. DIFFUSER SHALL HAVE A CABLE OPERATED DAMPER MOUNTED ON NECK. BALANCE TO AIR QUANTITY AS INDICATED. REFER TO DRAWING NO. M-100 & 15/M-104 FOR SPECIFICATIONS AND DETAILS. (TYPICAL)
6. PROVIDE 1" WIDE ARCHITECTURAL SLOT FOR RETURN AIR. RETURN SLOT SHALL HAVE SIGHT BAFFLE ABOVE. COORDINATE EXACT LOCATION ON SITE WITH THE ARCHITECT.
7. PROVIDE FRESH AIR SUPPLY FAN IN CEILING SPACE C/W ASSOCIATED UNIT-MOUNTED SPEED CONTROLLER, HANGERS, SUPPORTS, ISOLATORS AND DUCTWORK. FAN TO BE INTERLOCKED WITH EXISTING BAS. REFER TO DRAWING NO. M-100 & M-104 FOR SPECIFICATIONS & DETAILS.
8. PROVIDE NEW SQUARE CONE DIFFUSER AND BALANCE TO AIR QUANTITY AS INDICATED. REFER TO DRAWING NO. M-100 & 12/M-104 FOR SPECIFICATIONS AND DETAILS. (TYPICAL)
9. PROVIDE NEW RETURN AIR GRILLES. REFER TO DRAWING NO. M-100 FOR SPECIFICATIONS. (TYPICAL)
10. EXISTING AVERAGING TEMPERATURE SENSOR FOR THIS FLOOR C/W CONTROL WIRING TO REMAIN.

NOTES

ALL MECHANICAL WORKS INVOLVED IN 3RD FLOOR SHALL BE DONE AFTER HOURS (5:30 PM TO 8:30 AM). INCLUDE REMOVING/CAPPING CEILING SPACE OUTDOOR AIR DUCTWORK, CHILLED WATER PIPES/HEATING WATER PIPES REMOVING/CAPPING/ NEW CONNECTING, FLOOR CUTTING/PATCHING. CONDENSATE DRAIN REMOVING/NEW CONNECTING E.T.C.. CONTRACTOR SHALL COORDINATE WITH REGION'S PM PRIOR TO ANY WORK COMMENCING.

FINAL AIR BALANCING NOTE

1. PROVIDE FINAL AIR BALANCING AFTER COMPLETION OF MECHANICAL WORK, INCLUDING ALL EXISTING AND NEW OUTDOOR SUPPLY AIR BRANCH DUCTS SUPPLIED TO GROUND FLOOR, 2ND FLOOR, 3RD FLOOR, 4TH FLOOR AND 5TH FLOOR. SUBMIT THREE (3) COPIES OF THE AIR BALANCE REPORT TO THE CONSULTANT FOR REVIEW

FAN COIL UNIT NOTES

1. PRIOR TO FAN COIL UNIT INSTALLATION, CONTRACTOR TO PROVIDE A MOCK-UP OF THE HORIZONTAL FAN COIL UNIT FOR YORK REGION'S PM & CONSULTANTS REVIEW AND COMMENTS. INSTALLATION OF FAN COIL UNIT SHALL NOT PROCEED WITHOUT APPROVAL FROM YORK REGION'S PM & CONSULTANTS.
2. CONTRACTOR TO ENSURE NEW FAN COIL UNIT FILTER RACK IS SECURELY ATTACHED AT THE RETURN AIR SIDE OF THE UNIT. OPEN-ENDED OUTDOOR AIR SUPPLY DUCT SHALL BE INDIRECTLY TERMINATED CLOSE TO RETURN AIR SIDE OF FAN COIL UNIT. REFER TO DETAIL NO. 8/M-103.
3. FILTER RACK SHALL BE SIZE TO ACCEPT FILTER SIZES AS PER JOHNSON'S CONTROLS FILTER SIZE GUIDE BELOW:

   3.1 FHP-003 (1/2 TON) FILTER SIZE: 19"x10.5"x1"
   3.2 FHP-006 (1 TON) FILTER SIZE: 31"x10.5"x1"
   3.3 FHP-008 (1-1/4 TON) FILTER SIZE: 2 SETS OF 19"x10.5"x1"

AREA 'B'

SUBMISSION	DATE	DESCRIPTION
1	03-14-2022	ISSUED FOR 60% REVIEW
2	04-26-2022	ISSUED FOR 80% REVIEW
3	05-31-2022	ISSUED FOR 97% REVIEW
4	06-13-2022	ISSUED FOR TENDER
5	07-21-2022	ISSUED AS PER ADDENDUM M-2

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LICENSED PROFESSIONAL ENGINEER
G.V. YOUDELIS
06/13/2022
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	4TH
BASE DATE:	01-01-2022

PROJECT:

PROJECT #9907

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100m

DRAWN BY: **S.P.R./G.G.**

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL 4TH FLOOR
AREA 'B'
HVAC NEW LAYOUT

SHEET NUMBER:

M-210

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
3. CONTRACTOR TO COORDINATE WORK ON SITE WITH EXISTING MECHANICAL AND ELECTRICAL SERVICES.
4. WHERE DUCTWORK, PIPING AND EQUIPMENT IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED DUCT/PIPE HANGERS, VALVES, DAMPERS, ETC.
5. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING DRYWALL CEILING TO FACILITATE REMOVAL OF MECHANICAL AND ELECTRICAL SERVICES OUTLINED IN SCOPE OF WORKS.
6. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND ENGINEER, PROVIDE ACCESS PANELS/DOORS AS REQUIRED.
7. ALL REDUNDANT AND OBSOLETE OPENINGS IN SLAB SHALL BE FIRE STOPPED, SEALED, CAPPED, AND MADE GOOD.
8. CONTROLS CONTRACTOR SHALL SAFELY AND CAREFULLY REMOVE EXISTING SPACE TEMPERATURE SENSORS AND RETURN TO OWNER FOR SPARE PARTS. REMOVAL OF SPACE TEMPERATURE SENSORS SHALL BE DONE BY CONTROLS CONTRACTOR ONLY, NOT BY ANY OTHER TRADERS. ALL OTHER EXISTING CONTROLS (CONTROLLERS, CONTROL VALVES, ETC) SHALL BE DEMOLISHED AND REMOVED FROM SITE.
9. INSTALLATION HEIGHT OF TEMPERATURE SENSORS SHALL BE 4'-0". EXACT LOCATION TO BE COORDINATED ON SITE WITH THE ARCHITECT. (TYPICAL FOR ALL)

DRAWING NOTES

1. NEW OUTDOOR AIR SUPPLY DUCT FROM THIRD FLOOR C/W FIRE DAMPER.
2. NEW RETURN AIR TRANSFER DUCT. SIZE AS INDICATED. REFER TO DETAIL NO. 14/M-104 FOR DETAILS. (TYPICAL)
3. PROVIDE NEW FAN COIL UNIT IN CEILING SPACE C/W ASSOCIATED CONTROLS, HANGERS, SUPPORTS, ISOLATORS AND SUPPLY/RETURN AIR DUCTWORK. REFER TO M-100 SERIES FOR SPECIFICATIONS & DETAILS. INSTALL UNIT TIGHT TO CEILING SLAB AS HIGH AS POSSIBLE. (TYPICAL)
4. NEW OPEN-ENDED OUTDOOR AIR SUPPLY DUCT C/W BALANCING DAMPER. DUCT SHALL BE INDIRECTLY TERMINATED CLOSE TO RETURN AIR SIDE OF FAN COIL UNIT. BALANCE TO AIR QUANTITIES AS INDICATED. ALL FRESH AIR DUCT SHALL BE ROUND DUCT AS SHOWN. BALANCING DAMPER SHALL BE LOCATED ABOVE T-BAR CEILING. (TYPICAL)
5. PROVIDE NEW LINEAR SLOT DIFFUSER C/W PLENUM BOX. DIFFUSER SHALL HAVE A CABLE OPERATED DAMPER MOUNTED ON NECK. BALANCE TO AIR QUANTITY AS INDICATED. REFER TO DRAWING NO. M-100 & 15/M-104 FOR SPECIFICATIONS AND DETAILS. (TYPICAL)
6. PROVIDE 1" WIDE ARCHITECTURAL SLOT FOR RETURN AIR. RETURN SLOT SHALL HAVE SIGHT BAFFLE ABOVE. COORDINATE EXACT LOCATION ON SITE WITH THE ARCHITECT.
7. PROVIDE FRESH AIR SUPPLY FAN IN CEILING SPACE C/W ASSOCIATED UNIT-MOUNTED SPEED CONTROLLER, HANGERS, SUPPORTS, ISOLATORS AND DUCTWORK. FAN TO BE INTERLOCKED WITH EXISTING BAS. REFER TO DRAWING NO. M-100 & M-104 FOR SPECIFICATIONS & DETAILS.
8. PROVIDE NEW SQUARE CONE DIFFUSER AND BALANCE TO AIR QUANTITY AS INDICATED. REFER TO DRAWING NO. M-100 & 12/M-104 FOR SPECIFICATIONS AND DETAILS. (TYPICAL)
9. PROVIDE NEW RETURN AIR GRILLES. REFER TO DRAWING NO. M-100 FOR SPECIFICATIONS. (TYPICAL)
10. EXISTING AVERAGING TEMPERATURE SENSOR FOR THIS FLOOR C/W CONTROL WIRING TO REMAIN.

NOTES

ALL MECHANICAL WORKS INVOLVED IN 3RD FLOOR SHALL BE DONE AFTER HOURS (5:30 PM TO 8:30 AM). INCLUDE REMOVING/CAPPING CEILING SPACE OUTDOOR AIR DUCTWORK, CHILLED WATER PIPES/HEATING WATER PIPES REMOVING/CAPPING/ NEW CONNECTING, FLOOR CUTTING/PATCHING. CONDENSATE DRAIN REMOVING/NEW CONNECTING E.T.C.. CONTRACTOR SHALL COORDINATE WITH REGION'S PM PRIOR TO ANY WORK COMMENCING.

FINAL AIR BALANCING NOTE

1. PROVIDE FINAL AIR BALANCING AFTER COMPLETION OF MECHANICAL WORK, INCLUDING ALL EXISTING AND NEW OUTDOOR SUPPLY AIR BRANCH DUCTS SUPPLIED TO GROUND FLOOR, 2ND FLOOR, 3RD FLOOR, 4TH FLOOR AND 5TH FLOOR. SUBMIT THREE (3) COPIES OF THE AIR BALANCE REPORT TO THE CONSULTANT FOR REVIEW

FAN COIL UNIT NOTES

1. PRIOR TO FAN COIL UNIT INSTALLATION, CONTRACTOR TO PROVIDE A MOCK-UP OF THE HORIZONTAL FAN COIL UNIT FOR YORK REGION'S PM & CONSULTANT'S REVIEW AND COMMENTS. INSTALLATION OF FAN COIL UNIT SHALL NOT PROCEED WITHOUT APPROVAL FROM YORK REGION'S PM & CONSULTANTS.
2. CONTRACTOR TO ENSURE NEW FAN COIL UNIT FILTER RACK IS SECURELY ATTACHED AT THE RETURN AIR SIDE OF THE UNIT. OPEN-ENDED OUTDOOR AIR SUPPLY DUCT SHALL BE INDIRECTLY TERMINATED CLOSE TO RETURN AIR SIDE OF FAN COIL UNIT. REFER TO DETAIL NO. 8/M-103.
3. FILTER RACK SHALL BE SIZE TO ACCEPT FILTER SIZES AS PER JOHNSON'S CONTROLS FILTER SIZE GUIDE BELOW.

   3.1 FHP-003 (1/2 TON) FILTER SIZE: 19"x10.5"x1"
   3.2 FHP-006 (1 TON) FILTER SIZE: 31"x10.5"x1"
   3.3 FHP-008 (1-1/4 TON) FILTER SIZE: 2 SETS OF 19"x10.5"x1"

AREA 'C'

SUBMISSION	DATE	DESCRIPTION
1	03-14-2022	ISSUED FOR 60% REVIEW
2	04-26-2022	ISSUED FOR 80% REVIEW
3	05-31-2022	ISSUED FOR 97% REVIEW
4	06-13-2022	ISSUED FOR TENDER
5	07-21-2022	ISSUED AS PER ADDENDUM M-2

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LICENSED PROFESSIONAL ENGINEER
G.P. YOUDELIS
06/13/2022
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT: BUILDING & FACILITIES
FLOOR: 4TH
BASE DATE: 01-01-2022

PROJECT:

PROJECT #9907

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100m
DRAWN BY: **S.P.R./G.G.**
SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL 4TH FLOOR
AREA 'C'
HVAC NEW LAYOUT

SHEET NUMBER:

M-211

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
3. CONTRACTOR TO COORDINATE WORK ON SITE WITH EXISTING & NEW MECHANICAL, STRUCTURAL AND ELECTRICAL SERVICES.
4. CONTRACTOR IS RESPONSIBLE TO MAKE SITE MEASUREMENTS AND TO ENSURE THAT ALL CLEARANCES AND ACCESS NECESSARY ARE PROVIDED.
5. MECHANICAL CONTRACTOR SHALL ARRANGE WORK IN SUCH WAY THAT OTHER SERVICES ARE NOT DISRUPTED.
6. PROVIDE ALL NECESSARY SYSTEM SHUTDOWN, DRAIN DOWN OR LOCAL PIPE FREEZING AS REQUIRED.
7. SPRINKLER CONTRACTOR SHALL DRAIN DOWN AND FILL-UP THE SPRINKLER SYSTEM WITHIN THE HOURS OF 7:00AM TO 3.00PM ONLY. YORK REGION OPERATOR TEAM MUST BE PRESENT DURING THE DRAINING DOWN AND FILING-UP OF THE SPRINKLER SYSTEM WITHIN THE AREA OF WORK.
8. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING DRYWALL CEILING TO FACILITATE REMOVAL OF MECHANICAL AND ELECTRICAL SERVICES OUTLINED IN SCOPE OF WORKS.
9. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND ENGINEER, PROVIDE ACCESS PANELS/DOORS AS REQUIRED.
10. ALL REDUNDANT AND OBSOLETE OPENINGS IN SLAB SHALL BE FIRE STOPPED, SEALED, CAPPED, AND MADE GOOD.
11. MECHANICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
12. ALL SPRINKLER WORK SHALL BE DONE AS PER NFPA 13.

DRAWING NOTES

1. EXISTING SPRINKLER HEAD TO REMAIN. (TYPICAL)
2. EXISTING FIRE HOSE CABINET C/W 22 METER LONG FIRE HOSE TO REMAIN. (TYPICAL)
3. EXISTING SPRINKLER HEAD TO BE REMOVED. CAP ASSOCIATED SPRINKLER PIPE AS REQUIRED. (TYPICAL)
4. REMOVE EXISTING SINK C/W ASSOCIATED FAUCET. EXISTING PLUMBING & SANITARY DRAIN PIPING TO REMAIN AND MODIFY TO SUIT INSTALLATION OF NEW SINK. (TYPICAL)
5. EXISTING LAVATORY C/W ASSOCIATED FAUCET AND P-TRAP TO BE REMOVED. EXISTING PLUMBING & SANITARY DRAINAGE PIPING TO REMAIN FOR INSTALLATION OF NEW PLUMBING FIXTURE.
6. EXISTING WATER CLOSET C/W FLUSH VALVE, CARRIER & FLOOR FLANGE TO BE REMOVED. PLUMBING LINES & SANITARY VENT PIPING TO BE REMOVED, CUT BACK AND CAP IN CEILING SPACE. SANITARY DRAIN PIPING TO BE REMOVED AND CAP ON FLOOR BELOW. PATCH UP EXISTING FLOOR OPENING AS REQUIRED.
7. EXISTING PLUMBING FIXTURE C/W ASSOCIATED PIPING TO REMAIN. (TYPICAL)

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE 3RD FLOOR SHALL ONLY BE DONE AFTER HOURS (5:30 PM TO 8:30 AM). THIS INCLUDES REMOVAL & CAPPING OF OUTDOOR AIR DUCTWORK IN CEILING SPACE, REMOVAL/CAPPING/NEW CONNECTION OF CHILLED WATER PIPES & HEATING WATER PIPES, REMOVAL/CAPPING/NEW CONNECTION OF CONDENSATE DRAIN, FLOOR SLAB CUTTING/PATCHING, E.T.C.. CONTRACTOR SHALL COORDINATE WITH REGION'S PM PRIOR TO COMMENCEMENT OF ANY WORK.

AREA 'A'

SUBMISSION	DATE	DESCRIPTION
1	03-14-2022	ISSUED FOR 60% REVIEW
2	04-26-2022	ISSUED FOR 80% REVIEW
3	05-31-2022	ISSUED FOR 97% REVIEW
4	06-13-2022	ISSUED FOR TENDER
5	07-21-2022	ISSUED AS PER ADDENDUM M-2

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LICENSED PROFESSIONAL ENGINEER
G.V. YOUDELIS
06/13/2022
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	4TH
BASE DATE:	01-01-2022

PROJECT:

PROJECT #9907

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100m

DRAWN BY: **S.P.R./G.G.**

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL 4TH FLOOR
AREA 'A'
PLUMBING & FIRE PROTECTION
DEMOLITION PLAN

SHEET NUMBER:

M-300

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
3. CONTRACTOR TO COORDINATE WORK ON SITE WITH EXISTING & NEW MECHANICAL, STRUCTURAL AND ELECTRICAL SERVICES.
4. CONTRACTOR IS RESPONSIBLE TO MAKE SITE MEASUREMENTS AND TO ENSURE THAT ALL CLEARANCES AND ACCESS NECESSARY ARE PROVIDED.
5. MECHANICAL CONTRACTOR SHALL ARRANGE WORK IN SUCH WAY THAT OTHER SERVICES ARE NOT DISRUPTED.
6. PROVIDE ALL NECESSARY SYSTEM SHUTDOWN, DRAIN DOWN OR LOCAL PIPE FREEZING AS REQUIRED.
7. SPRINKLER CONTRACTOR SHALL DRAIN DOWN AND FILL-UP THE SPRINKLER SYSTEM WITHIN THE HOURS OF 7:00AM TO 3.00PM ONLY. YORK REGION OPERATOR TEAM MUST BE PRESENT DURING THE DRAINING DOWN AND FILING-UP OF THE SPRINKLER SYSTEM WITHIN THE AREA OF WORK.
8. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING DRYWALL CEILING TO FACILITATE REMOVAL OF MECHANICAL AND ELECTRICAL SERVICES OUTLINED IN SCOPE OF WORKS.
9. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND ENGINEER. PROVIDE ACCESS PANELS/DOORS AS REQUIRED.
10. ALL REDUNDANT AND OBSOLETE OPENINGS IN SLAB SHALL BE FIRE STOPPED, SEALED, CAPPED, AND MADE GOOD.
11. MECHANICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
12. ALL SPRINKLER WORK SHALL BE DONE AS PER NFPA 13.

DRAWING NOTES

1. EXISTING SPRINKLER HEAD TO REMAIN. (TYPICAL)
2. EXISTING FIRE HOSE CABINET C/W 22 METER LONG FIRE HOSE TO REMAIN. (TYPICAL)
3. EXISTING SPRINKLER HEAD TO BE REMOVED. CAP ASSOCIATED SPRINKLER PIPE AS REQUIRED. (TYPICAL)
4. REMOVE EXISTING SINK C/W ASSOCIATED FAUCET. EXISTING PLUMBING & SANITARY DRAIN PIPING TO REMAIN AND MODIFY TO SUIT INSTALLATION OF NEW SINK. (TYPICAL)
5. EXISTING LAVATORY C/W ASSOCIATED FAUCET AND P-TRAP TO BE REMOVED. EXISTING PLUMBING & SANITARY DRAINAGE PIPING TO REMAIN FOR INSTALLATION OF NEW PLUMBING FIXTURE.
6. EXISTING WATER CLOSET C/W FLUSH VALVE, CARRIER & FLOOR FLANGE TO BE REMOVED. PLUMBING LINES & SANITARY VENT PIPING TO BE REMOVED, CUT BACK AND CAP IN CEILING SPACE. SANITARY DRAIN PIPING TO BE REMOVED AND CAP ON FLOOR BELOW. PATCH UP EXISTING FLOOR OPENING AS REQUIRED.
7. EXISTING PLUMBING FIXTURE C/W ASSOCIATED PIPING TO REMAIN. (TYPICAL)

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE 3RD FLOOR SHALL ONLY BE DONE AFTER HOURS (5:30 PM TO 8:30 AM). THIS INCLUDES REMOVAL & CAPPING OF OUTDOOR AIR DUCTWORK IN CEILING SPACE, REMOVAL/CAPPING/NEW CONNECTION OF CHILLED WATER PIPES & HEATING WATER PIPES, REMOVAL/CAPPING/NEW CONNECTION OF CONDENSATE DRAIN, FLOOR SLAB CUTTING/PATCHING, E.T.C.. CONTRACTOR SHALL COORDINATE WITH REGION'S PM PRIOR TO COMMENCEMENT OF ANY WORK.

AREA 'B'

SUBMISSION	DATE	DESCRIPTION
1	03-14-2022	ISSUED FOR 60% REVIEW
2	04-26-2022	ISSUED FOR 80% REVIEW
3	06-17-2022	ISSUED FOR 90% REVIEW
4	06-13-2022	ISSUED FOR TENDER
5	07-21-2022	ISSUED AS PER ADDENDUM M-2

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LICENSED PROFESSIONAL ENGINEER
G.P. YOUDELIS
06/13/2022
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	4TH
BASE DATE:	01-01-2022

PROJECT:

PROJECT #9907

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100m

DRAWN BY: **S.P.R./G.G.**

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL 4TH FLOOR
AREA 'B'
PLUMBING & FIRE PROTECTION
DEMOLITION PLAN

SHEET NUMBER:

M-301

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
3. CONTRACTOR TO COORDINATE WORK ON SITE WITH EXISTING & NEW MECHANICAL, STRUCTURAL AND ELECTRICAL SERVICES.
4. CONTRACTOR IS RESPONSIBLE TO MAKE SITE MEASUREMENTS AND TO ENSURE THAT ALL CLEARANCES AND ACCESS NECESSARY ARE PROVIDED.
5. MECHANICAL CONTRACTOR SHALL ARRANGE WORK IN SUCH WAY THAT OTHER SERVICES ARE NOT DISRUPTED.
6. PROVIDE ALL NECESSARY SYSTEM SHUTDOWN, DRAIN DOWN OR LOCAL PIPE FREEZING AS REQUIRED.
7. SPRINKLER CONTRACTOR SHALL DRAIN DOWN AND FILL-UP THE SPRINKLER SYSTEM WITHIN THE HOURS OF 7:00AM TO 3.00PM ONLY. YORK REGION OPERATOR TEAM MUST BE PRESENT DURING THE DRAINING DOWN AND FILING-UP OF THE SPRINKLER SYSTEM WITHIN THE AREA OF WORK.
8. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING DRYWALL CEILING TO FACILITATE REMOVAL OF MECHANICAL AND ELECTRICAL SERVICES OUTLINED IN SCOPE OF WORKS.
9. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND ENGINEER. PROVIDE ACCESS PANELS/DOORS AS REQUIRED.
10. ALL REDUNDANT AND OBSOLETE OPENINGS IN SLAB SHALL BE FIRE STOPPED, SEALED, CAPPED, AND MADE GOOD.
11. MECHANICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
12. ALL SPRINKLER WORK SHALL BE DONE AS PER NFPA 13.

DRAWING NOTES

1. EXISTING SPRINKLER HEAD TO REMAIN. (TYPICAL)
2. EXISTING FIRE HOSE CABINET C/W 22 METER LONG FIRE HOSE TO REMAIN. (TYPICAL)
3. EXISTING SPRINKLER HEAD TO BE REMOVED. CAP ASSOCIATED SPRINKLER PIPE AS REQUIRED. (TYPICAL)
4. REMOVE EXISTING SINK C/W ASSOCIATED FAUCET. EXISTING PLUMBING & SANITARY DRAIN PIPING TO REMAIN AND MODIFY TO SUIT INSTALLATION OF NEW SINK. (TYPICAL)
5. EXISTING LAVATORY C/W ASSOCIATED FAUCET AND P-TRAP TO BE REMOVED. EXISTING PLUMBING & SANITARY DRAINAGE PIPING TO REMAIN FOR INSTALLATION OF NEW PLUMBING FIXTURE.
6. EXISTING WATER CLOSET C/W FLUSH VALVE, CARRIER & FLOOR FLANGE TO BE REMOVED. PLUMBING LINES & SANITARY VENT PIPING TO BE REMOVED, CUT BACK AND CAP IN CEILING SPACE. SANITARY DRAIN PIPING TO BE REMOVED AND CAP ON FLOOR BELOW. PATCH UP EXISTING FLOOR OPENING AS REQUIRED.
7. EXISTING PLUMBING FIXTURE C/W ASSOCIATED PIPING TO REMAIN. (TYPICAL)

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE 3RD FLOOR SHALL ONLY BE DONE AFTER HOURS (5:30 PM TO 8:30 AM). THIS INCLUDES REMOVAL & CAPPING OF OUTDOOR AIR DUCTWORK IN CEILING SPACE, REMOVAL/CAPPING/NEW CONNECTION OF CHILLED WATER PIPES & HEATING WATER PIPES, REMOVAL/CAPPING/NEW CONNECTION OF CONDENSATE DRAIN, FLOOR SLAB CUTTING/PATCHING, E.T.C.. CONTRACTOR SHALL COORDINATE WITH REGION'S PM PRIOR TO COMMENCEMENT OF ANY WORK.

AREA 'C'

SUBMISSION	DATE	DESCRIPTION
1	03-14-2022	ISSUED FOR 60% REVIEW
2	04-26-2022	ISSUED FOR 80% REVIEW
3	05-31-2022	ISSUED FOR 97% REVIEW
4	06-13-2022	ISSUED FOR TENDER
5	07-21-2022	ISSUED AS PER ADDENDUM M-2

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LICENSED PROFESSIONAL ENGINEER
GUY YOUDELIS
06/13/2022
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	4TH
BASE DATE:	01-01-2022

PROJECT:

PROJECT #9907

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100m

DRAWN BY: **S.P.R./G.G.**

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL 4TH FLOOR
AREA 'C'
PLUMBING & FIRE PROTECTION
DEMOLITION PLAN

SHEET NUMBER:

M-302

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
3. CONTRACTOR TO COORDINATE WORK ON SITE WITH EXISTING & NEW MECHANICAL, STRUCTURAL AND ELECTRICAL SERVICES.
4. CONTRACTOR IS RESPONSIBLE TO MAKE SITE MEASUREMENTS AND TO ENSURE THAT ALL CLEARANCES AND ACCESS NECESSARY ARE PROVIDED.
5. MECHANICAL CONTRACTOR SHALL ARRANGE WORK IN SUCH WAY THAT OTHER SERVICES ARE NOT DISRUPTED.
6. PROVIDE ALL NECESSARY SYSTEM SHUTDOWN, DRAIN DOWN OR LOCAL PIPE FREEZING AS REQUIRED.
7. SPRINKLER CONTRACTOR SHALL DRAIN DOWN AND FILL-UP THE SPRINKLER SYSTEM WITHIN THE HOURS OF 7:00AM TO 3.00PM ONLY. YORK REGION OPERATOR TEAM MUST BE PRESENT DURING THE DRAINING DOWN AND FILLING-UP OF THE SPRINKLER SYSTEM WITHIN THE AREA OF WORK.
8. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING DRYWALL CEILING TO FACILITATE REMOVAL OF MECHANICAL AND ELECTRICAL SERVICES OUTLINED IN SCOPE OF WORKS.
9. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND ENGINEER. PROVIDE ACCESS PANELS/DOORS AS REQUIRED.
10. ALL REDUNDANT AND OBSOLETE OPENINGS IN SLAB SHALL BE FIRE STOPPED, SEALED, CAPPED, AND MADE GOOD.
11. MECHANICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
12. ALL SPRINKLER WORK SHALL BE DONE AS PER NFPA 13.
13. ALL SPRINKLER HEAD CONNECTIONS SHALL BE HARD PIPED. FLEXIBLE PIPING CONNECTION IS NOT ACCEPTABLE.

DRAWING NOTES

1. EXISTING SPRINKLER HEAD TO REMAIN. (TYPICAL)
2. EXISTING FIRE HOSE CABINET C/W 22 METER LONG FIRE HOSE TO REMAIN. (TYPICAL)
3. PROVIDE NEW PENDANT SPRINKLER HEAD. (TYPICAL)
4. PROVIDE NEW SINK 'S-1' C/W ASSOCIATED FAUCET, MODIFY AND EXTEND PLUMBING AND SANITARY PIPING TO SUIT INSTALLATION OF NEW SINK. REFER TO DRAWING NO. M-100 FOR SPECIFICATIONS. (TYPICAL)
5. PROVIDE NEW 50Ø FLOOR DRAIN 'TD-1' C/W ASSOCIATED SANITARY DRAIN PIPING. CONNECT NEW SANITARY DRAIN PIPE TO NEAREST EXISTING SANITARY LINE IN CEILING SPACE ON FLOOR BELOW. (TYPICAL)
6. PROVIDE NEW SEMI-RECESSED SPRINKLER HEAD. (TYPICAL)
7. EXISTING PLUMBING FIXTURE C/W ASSOCIATED PIPING TO REMAIN. (TYPICAL)
8. PROVIDE AN ALLOWANCE TO EXTEND EXISTING HOT & COLD WATER PIPING, VENT PIPING & SANITARY DRAIN ON FLOOR BELOW FROM DEMOLISHED SINK TO NEW LOCATION OF NEW SINK.
9. PROVIDE NEW HUB DRAIN IN CEILING SPACE AND CONNECT TO NEAREST SANITARY DRAIN PIPING AT THIS APPROXIMATE LOCATION.

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE 3RD FLOOR SHALL ONLY BE DONE AFTER HOURS (5:30 PM TO 8:30 AM). THIS INCLUDES REMOVAL & CAPPING OF OUTDOOR AIR DUCTWORK IN CEILING SPACE, REMOVAL/CAPPING/NEW CONNECTION OF CHILLED WATER PIPES & HEATING WATER PIPES, REMOVAL/CAPPING/NEW CONNECTION OF CONDENSATE DRAIN, FLOOR SLAB CUTTING/PATCHING, E.T.C.. CONTRACTOR SHALL COORDINATE WITH REGION'S PM PRIOR TO COMMENCEMENT OF ANY WORK.

AREA 'A'

SUBMISSION	DATE	DESCRIPTION
1	03-14-2022	ISSUED FOR 60% REVIEW
2	04-26-2022	ISSUED FOR 80% REVIEW
3	05-31-2022	ISSUED FOR 97% REVIEW
4	06-13-2022	ISSUED FOR TENDER
5	07-21-2022	ISSUED AS PER ADDENDUM M-2

G.Bruce Stratton Architects

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LICENSED PROFESSIONAL ENGINEER
G.V. YOUDELIS
06/13/2022
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	4TH
BASE DATE:	01-01-2022

PROJECT:

PROJECT #9907

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100m

DRAWN BY: **S.P.R./G.G.**

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL 4TH FLOOR
AREA 'A'
PLUMBING & FIRE PROTECTION
NEW LAYOUT

SHEET NUMBER:

M-303

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
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4. CONTRACTOR IS RESPONSIBLE TO MAKE SITE MEASUREMENTS AND TO ENSURE THAT ALL CLEARANCES AND ACCESS NECESSARY ARE PROVIDED.
5. MECHANICAL CONTRACTOR SHALL ARRANGE WORK IN SUCH WAY THAT OTHER SERVICES ARE NOT DISRUPTED.
6. PROVIDE ALL NECESSARY SYSTEM SHUTDOWN, DRAIN DOWN OR LOCAL PIPE FREEZING AS REQUIRED.
7. SPRINKLER CONTRACTOR SHALL DRAIN DOWN AND FILL-UP THE SPRINKLER SYSTEM WITHIN THE HOURS OF 7:00AM TO 3.00PM ONLY. YORK REGION OPERATOR TEAM MUST BE PRESENT DURING THE DRAINING DOWN AND FILING-UP OF THE SPRINKLER SYSTEM WITHIN THE AREA OF WORK.
8. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING DRYWALL CEILING TO FACILITATE REMOVAL OF MECHANICAL AND ELECTRICAL SERVICES OUTLINED IN SCOPE OF WORKS.
9. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND ENGINEER. PROVIDE ACCESS PANELS/DOORS AS REQUIRED.
10. ALL REDUNDANT AND OBSOLETE OPENINGS IN SLAB SHALL BE FIRE STOPPED, SEALED, CAPPED, AND MADE GOOD.
11. MECHANICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
12. ALL SPRINKLER WORK SHALL BE DONE AS PER NFPA 13.
13. ALL SPRINKLER HEAD CONNECTIONS SHALL BE HARD PIPED. FLEXIBLE PIPING CONNECTION IS NOT ACCEPTABLE.

DRAWING NOTES

1. EXISTING SPRINKLER HEAD TO REMAIN. (TYPICAL)
2. EXISTING FIRE HOSE CABINET C/W 22 METER LONG FIRE HOSE TO REMAIN. (TYPICAL)
3. PROVIDE NEW PENDANT SPRINKLER HEAD. (TYPICAL)
4. PROVIDE NEW SINK 'S-1' C/W ASSOCIATED FAUCET, MODIFY AND EXTEND PLUMBING AND SANITARY PIPING TO SUIT INSTALLATION OF NEW SINK. REFER TO DRAWING NO. M-100 FOR SPECIFICATIONS. (TYPICAL)
5. PROVIDE NEW 50Ø FLOOR DRAIN 'FD-1' C/W ASSOCIATED SANITARY DRAIN PIPING. CONNECT NEW SANITARY DRAIN PIPE TO NEAREST EXISTING SANITARY LINE IN CEILING SPACE ON FLOOR BELOW. (TYPICAL)
6. PROVIDE NEW SEMI-RECESSED SPRINKLER HEAD. (TYPICAL)
7. EXISTING PLUMBING FIXTURE C/W ASSOCIATED PIPING TO REMAIN. (TYPICAL)
8. PROVIDE AN ALLOWANCE TO EXTEND EXISTING HOT & COLD WATER PIPING, VENT PIPING & SANITARY DRAIN ON FLOOR BELOW FROM DEMOLISHED SINK TO NEW LOCATION OF NEW SINK.
9. PROVIDE NEW HUB DRAIN IN CEILING SPACE AND CONNECT TO NEAREST SANITARY DRAIN PIPING AT THIS APPROXIMATE LOCATION.

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE 3RD FLOOR SHALL ONLY BE DONE AFTER HOURS (5:30 PM TO 8:30 AM). THIS INCLUDES REMOVAL & CAPPING OF OUTDOOR AIR DUCTWORK IN CEILING SPACE, REMOVAL/CAPPING/NEW CONNECTION OF CHILLED WATER PIPES & HEATING WATER PIPES, REMOVAL/CAPPING/NEW CONNECTION OF CONDENSATE DRAIN, FLOOR SLAB CUTTING/PATCHING, E.T.C.. CONTRACTOR SHALL COORDINATE WITH REGION'S PM PRIOR TO COMMENCEMENT OF ANY WORK.

AREA 'B'

SUBMISSION	DATE	DESCRIPTION
1	03-14-2022	ISSUED FOR 60% REVIEW
2	04-26-2022	ISSUED FOR 80% REVIEW
3	05-31-2022	ISSUED FOR 97% REVIEW
4	06-13-2022	ISSUED FOR TENDER
5	07-21-2022	ISSUED AS PER ADDENDUM M-2

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LICENSED PROFESSIONAL ENGINEER
G.V. YOUDELIS
06/13/2022
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	4TH
BASE DATE:	01-01-2022

PROJECT:

PROJECT #9907

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100m

DRAWN BY: **S.P.R./G.G.**

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL 4TH FLOOR
AREA 'B'
PLUMBING & FIRE PROTECTION
NEW LAYOUT

SHEET NUMBER:

M-304

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
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5. MECHANICAL CONTRACTOR SHALL ARRANGE WORK IN SUCH WAY THAT OTHER SERVICES ARE NOT DISRUPTED.
6. PROVIDE ALL NECESSARY SYSTEM SHUTDOWN, DRAIN DOWN OR LOCAL PIPE FREEZING AS REQUIRED.
7. SPRINKLER CONTRACTOR SHALL DRAIN DOWN AND FILL-UP THE SPRINKLER SYSTEM WITHIN THE HOURS OF 7:00AM TO 3.00PM ONLY. YORK REGION OPERATOR TEAM MUST BE PRESENT DURING THE DRAINING DOWN AND FILING-UP OF THE SPRINKLER SYSTEM WITHIN THE AREA OF WORK.
8. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING DRYWALL CEILING TO FACILITATE REMOVAL OF MECHANICAL AND ELECTRICAL SERVICES OUTLINED IN SCOPE OF WORKS.
9. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND ENGINEER. PROVIDE ACCESS PANELS/DOORS AS REQUIRED.
10. ALL REDUNDANT AND OBSOLETE OPENINGS IN SLAB SHALL BE FIRE STOPPED, SEALED, CAPPED, AND MADE GOOD.
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12. ALL SPRINKLER WORK SHALL BE DONE AS PER NFPA 13.
13. ALL SPRINKLER HEAD CONNECTIONS SHALL BE HARD PIPED. FLEXIBLE PIPING CONNECTION IS NOT ACCEPTABLE.

DRAWING NOTES

1. EXISTING SPRINKLER HEAD TO REMAIN. (TYPICAL)
2. EXISTING FIRE HOSE CABINET C/W 22 METER LONG FIRE HOSE TO REMAIN. (TYPICAL)
3. PROVIDE NEW PENDANT SPRINKLER HEAD. (TYPICAL)
4. PROVIDE NEW SINK 'S-1' C/W ASSOCIATED FAUCET, MODIFY AND EXTEND PLUMBING AND SANITARY PIPING TO SUIT INSTALLATION OF NEW SINK. REFER TO DRAWING NO. M-100 FOR SPECIFICATIONS. (TYPICAL)
5. PROVIDE NEW 50Ø FLOOR DRAIN 'FD-1' C/W ASSOCIATED SANITARY DRAIN PIPING. CONNECT NEW SANITARY DRAIN PIPE TO NEAREST EXISTING SANITARY LINE IN CEILING SPACE ON FLOOR BELOW. (TYPICAL)
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8. PROVIDE AN ALLOWANCE TO EXTEND EXISTING HOT & COLD WATER PIPING, VENT PIPING & SANITARY DRAIN ON FLOOR BELOW FROM DEMOLISHED SINK TO NEW LOCATION OF NEW SINK.
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NOTES

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AREA 'C'

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LICENSED PROFESSIONAL ENGINEER
G.V. YOUDELIS
06/13/2022
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	4TH
BASE DATE:	01-01-2022

PROJECT:

PROJECT #9907

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100m

DRAWN BY: **S.P.R./G.G.**

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL 4TH FLOOR
AREA 'C'
PLUMBING & FIRE PROTECTION
NEW LAYOUT

SHEET NUMBER:

M-305

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
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5. MECHANICAL CONTRACTOR SHALL ARRANGE WORK IN SUCH WAY THAT OTHER SERVICES ARE NOT DISRUPTED.
6. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING DRYWALL CEILING TO FACILITATE REMOVAL OF MECHANICAL AND ELECTRICAL SERVICES OUTLINED IN SCOPE OF WORKS.
7. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND ENGINEER. PROVIDE ACCESS PANELS/DOORS AS REQUIRED.
8. ALL REDUNDANT AND OBSOLETE OPENINGS IN SLAB SHALL BE FIRE STOPPED, SEALED, CAPPED, AND MADE GOOD.
9. WHERE DUCTWORK, PIPING AND EQUIPMENT IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED DUCT/PIPE HANGERS, VALVES, DAMPERS, ETC.
10. MECHANICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
11. INSTALLATION HEIGHT OF TEMPERATURE SENSORS SHALL BE 4'-0". (TYPICAL FOR ALL)

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE 3RD FLOOR SHALL ONLY BE DONE AFTER HOURS (5:30 PM TO 8:30 AM). THIS INCLUDES REMOVAL & CAPPING OF OUTDOOR AIR DUCTWORK IN CEILING SPACE, REMOVAL/CAPPING/NEW CONNECTION OF CHILLED WATER PIPES & HEATING WATER PIPES, REMOVAL/CAPPING/NEW CONNECTION OF CONDENSATE DRAIN, FLOOR SLAB CUTTING/PATCHING, E.T.C.. CONTRACTOR SHALL COORDINATE WITH REGION'S PM PRIOR TO COMMENCEMENT OF ANY WORK.

DRAWING NOTES

1. NEW FLOOR MOUNTED WALL-FIN CABINET RADIATOR C/W ENCLOSURE. PROVIDE NEW HEATING WATER PIPE AND CONNECT TO NEW/EXISTING HEATING WATER PIPE IN THRID FLOOR CEILING SPACE. REFER TO DETAIL NO. 3 & 4/M-104. (TYPICAL)
2. PROVIDE NEW CONDENSATE DRAIN C/W P-TRAP TO SERVE FAN COIL UNIT AND EXTEND AS SHOWN. SIZE PIPE AS INDICATED. (TYPICAL)
3. NEW JANITOR ROOM FLOOR WATER DETECTION SENSOR. PROVIDE NECESSARY CONTROL WIRING, FLOOR SLAB CUTTING/PATCHING AS REQUIRED.
4. DROP NEW CHILLED WATER SUPPLY & HEATING WATER SUPPLY PIPES DOWN TO 3RD FLOOR CEILING SPACE AND CONNECT TO EXISTING SERVICES. REFER TO 3RD FLOOR MECHANICAL NEW LAYOUT. EXACT LOCATION TO BE CONFIRMED ON SITE.
5. INDIRECTLY TERMINATE NEW CONDENSATE DRAIN PIE TO HUB DRAIN NEAR SINK.
6. CONNECT NEW CONDENSATE DRAIN PIPE TO EXISTING STORM DRAIN PIPING IN CEILING SPACE AT THIS APPROXIMATE LOCATION. PIPE SHALL BE CONNECTED VERTICALLY. (TYPICAL)
7. TERMINATE NEW CONDENSATE DRAIN PIPE AT EXISTING JANITOR'S SINK. PROVIDE FLOOD SENSOR IN JAN. CLOSET. (TYPICAL)
8. DROP NEW CHILLED WATER RETURN & HEATING WATER RETURN PIPES DOWN TO 3RD FLOOR CEILING SPACE AND CONNECT TO EXISTING RISER AT ELECTRICAL ROOM. REFER TO 3RD FLOOR MECHANICAL NEW LAYOUT. EXACT LOCATION TO BE CONFIRMED ON SITE.
9. PRESSURE TEST ALL NEW PIPING FOR 24 HOURS WITH NO LOSS OF PRESSURE PRIOR TO INSULATING FITTINGS AND OPENING MAIN VALVES. (TYPICAL)
10. NEW FAN COIL UNIT IN CEILING SPACE. INSTALL UNIT TIGHT TO CEILING SLAB AS HIGH AS POSSIBLE. PROVIDE UNIT SUPPORTS AS REQUIRED. (TYPICAL)
11. PROVIDE NEW 25ø CHILLED WATER SUPPLY/RETURN WATER PIPE & 20ø HEATING WATER SUPPLY/ RETURN PIPE TO NEW FAN COIL UNIT C/W ISOLATION VALVE, BALANCING VALVE, CONTROL VALVE AND CONTROL WIRING. (TYPICAL)
12. NEW WALL FIN RAD ENCLOSURE SHALL BE CONTINUOUS FROM WALL TO WALL. PROVIDE END CAPS NEAR WALL AS REQUIRED. ENCLOSURE SHALL HAVE ACCESS PANEL WHERE CONTROL VALVES ARE LOCATED. ENCLOSURE SHALL BE ACCESSIBLE AT ALL TIMES.
13. AT EACH CHANGE OF DIRECTION ON CHILLED WATER PIPING CONTRACTOR TO PROVIDE OFFSET AS PER MECHANICAL DETAIL NO. 10/M-104. (TYPICAL)
14. NEW 20ø HEATING SUPPLY/RETURN PIPE FROM NEW/EXISTING HEATING SUPPLY/RETURN PIPE MAIN LOCATED IN THIRD FLOOR CEILING SPACE. PROVIDE AN ALLOWANCE FOR FLOOR SLAB CUTTING/ DRILLING/ FIRE-STOPPING AS REQUIRED. CONTRACTOR TO ENSURE ALL PIPING ARE ENCLOSED WITHIN RAD ENCLOSURE. PROVIDE ALL NECESSARY FITTING/PIPE EXTENSION AS REQUIRED.
15. INDIRECTLY TERMINATE NEW CONDENSATE DRAIN PIPE TO HUB DRAIN NEAR SINK

1 TYPE 'A1 TO A4' WALL FIN RADIATION PIPING SCHEMATIC
M-400 SCALE: N.T.S.

2 TYPE 'B1' TO 'B12' WALL FIN RADIATION PIPING SCHEMATIC
M-400 SCALE: N.T.S.

3 TYPE 'C1' & 'C2' WALL FIN RADIATION PIPING SCHEMATIC
M-400 SCALE: N.T.S.

4 DOUBLE WALL FIN RADIATION DETAIL
M-400 SCALE: N.T.S.

AREA 'A'

SUBMISSION	DATE	DESCRIPTION
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LICENSED PROFESSIONAL ENGINEER G.V. YOUDELIS 06/13/2022 PROVINCE OF ONTARIO

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DRAWN BY: **S.P.R./G.G.**

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL 4TH FLOOR
AREA 'A'
HYDRONIC NEW LAYOUT

SHEET NUMBER:

M-400

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
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5. MECHANICAL CONTRACTOR SHALL ARRANGE WORK IN SUCH WAY THAT OTHER SERVICES ARE NOT DISRUPTED.
6. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING DRYWALL CEILING TO FACILITATE REMOVAL OF MECHANICAL AND ELECTRICAL SERVICES OUTLINED IN SCOPE OF WORKS.
7. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND ENGINEER. PROVIDE ACCESS PANELS/DOORS AS REQUIRED.
8. ALL REDUNDANT AND OBSOLETE OPENINGS IN SLAB SHALL BE FIRE STOPPED, SEALED, CAPPED, AND MADE GOOD.
9. WHERE DUCTWORK, PIPING AND EQUIPMENT IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED DUCT/PIPE HANGERS, VALVES, DAMPERS, ETC.
10. MECHANICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
11. INSTALLATION HEIGHT OF TEMPERATURE SENSORS SHALL BE 4'-0". (TYPICAL FOR ALL)

NOTES

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DRAWING NOTES

1. NEW FLOOR MOUNTED WALL-FIN CABINET RADIATOR C/W ENCLOSURE. PROVIDE NEW HEATING WATER PIPE AND CONNECT TO NEW/EXISTING HEATING WATER PIPE IN THIRD FLOOR CEILING SPACE. REFER TO DETAIL NO. 3 & 4/M-104. (TYPICAL)
2. PROVIDE NEW CONDENSATE DRAIN C/W P-TRAP TO SERVE FAN COIL UNIT AND EXTEND AS SHOWN. SIZE PIPE AS INDICATED. (TYPICAL)
3. NEW JANITOR ROOM FLOOR WATER DETECTION SENSOR. PROVIDE NECESSARY CONTROL WIRING, FLOOR SLAB CUTTING/PATCHING AS REQUIRED.
4. DROP NEW CHILLED WATER SUPPLY & HEATING WATER SUPPLY PIPES DOWN TO 3RD FLOOR CEILING SPACE AND CONNECT TO EXISTING SERVICES. REFER TO 3RD FLOOR MECHANICAL NEW LAYOUT. EXACT LOCATION TO BE CONFIRMED ON SITE.
5. INDIRECTLY TERMINATE NEW CONDENSATE DRAIN PIE TO HUB DRAIN NEAR SINK.
6. CONNECT NEW CONDENSATE DRAIN PIPE TO EXISTING STORM DRAIN PIPING IN CEILING SPACE AT THIS APPROXIMATE LOCATION. PIPE SHALL BE CONNECTED VERTICALLY. (TYPICAL)
7. TERMINATE NEW CONDENSATE DRAIN PIPE AT EXISTING JANITOR'S SINK. PROVIDE FLOOD SENSOR IN JAN. CLOSET. (TYPICAL)
8. DROP NEW CHILLED WATER RETURN & HEATING WATER RETURN PIPES DOWN TO 3RD FLOOR CEILING SPACE AND CONNECT TO EXISTING RISER AT ELECTRICAL ROOM. REFER TO 3RD FLOOR MECHANICAL NEW LAYOUT. EXACT LOCATION TO BE CONFIRMED ON SITE.
9. PRESSURE TEST ALL NEW PIPING FOR 24 HOURS WITH NO LOSS OF PRESSURE PRIOR TO INSULATING FITTINGS AND OPENING MAIN VALVES. (TYPICAL)
10. NEW FAN COIL UNIT IN CEILING SPACE. INSTALL UNIT TIGHT TO CEILING SLAB AS HIGH AS POSSIBLE. PROVIDE UNIT SUPPORTS AS REQUIRED. (TYPICAL)
11. PROVIDE NEW 25ø CHILLED WATER SUPPLY/RETURN WATER PIPE & 20ø HEATING WATER SUPPLY/ RETURN PIPE TO NEW FAN COIL UNIT C/W ISOLATION VALVE, BALANCING VALVE, CONTROL VALVE AND CONTROL WIRING. (TYPICAL)
12. NEW WALL FIN RAD ENCLOSURE SHALL BE CONTINUOUS FROM WALL TO WALL. PROVIDE END CAPS NEAR WALL AS REQUIRED. ENCLOSURE SHALL HAVE ACCESS PANEL WHERE CONTROL VALVES ARE LOCATED. ENCLOSURE SHALL BE ACCESSIBLE AT ALL TIMES.
13. AT EACH CHANGE OF DIRECTION ON CHILLED WATER PIPING CONTRACTOR TO PROVIDE OFFSET AS PER MECHANICAL DETAIL NO. 10/M-104. (TYPICAL)
14. NEW 20ø HEATING SUPPLY/RETURN PIPE FROM NEW/EXISTING HEATING SUPPLY/RETURN PIPE MAIN LOCATED IN THIRD FLOOR CEILING SPACE. PROVIDE AN ALLOWANCE FOR FLOOR SLAB CUTTING/ DRILLING/ FIRE-STOPPING AS REQUIRED. CONTRACTOR TO ENSURE ALL PIPING ARE ENCLOSED WITHIN RAD ENCLOSURE. PROVIDE ALL NECESSARY FITTING/PIPE EXTENSION AS REQUIRED.
15. INDIRECTLY TERMINATE NEW CONDENSATE DRAIN PIPE TO HUB DRAIN NEAR SINK

1 TYPE 'A5 TO A8' WALL FIN RADIATION PIPING SCHEMATIC
M-401 SCALE: N.T.S.

2 TYPE 'B13' TO 'B21' WALL FIN RADIATION PIPING SCHEMATIC
M-401 SCALE: N.T.S.

3 TYPE 'C3 TO C5' WALL FIN RADIATION PIPING SCHEMATIC
M-401 SCALE: N.T.S.

4 DOUBLE WALL FIN RADIATION DETAIL
M-401 SCALE: N.T.S.

AREA 'B'

SUBMISSION	DATE	DESCRIPTION
1	03-14-2022	ISSUED FOR 60% REVIEW
2	04-26-2022	ISSUED FOR 80% REVIEW
3	05-31-2022	ISSUED FOR 97% REVIEW
4	06-13-2022	ISSUED FOR TENDER
5	07-21-2022	ISSUED AS PER ADDENDUM M-2

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LICENSED PROFESSIONAL ENGINEER
G.V. YOUDELIS
06/13/2022
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	4TH
BASE DATE:	01-01-2022

PROJECT:

PROJECT #9907

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100m

DRAWN BY: **S.P.R./G.G.**

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL 4TH FLOOR
AREA 'B'
HYDRONIC NEW LAYOUT

SHEET NUMBER:

M-401

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
3. CONTRACTOR TO COORDINATE WORK ON SITE WITH EXISTING & NEW MECHANICAL, STRUCTURAL AND ELECTRICAL SERVICES.
4. CONTRACTOR IS RESPONSIBLE TO MAKE SITE MEASUREMENTS AND TO ENSURE THAT ALL CLEARANCES AND ACCESS NECESSARY ARE PROVIDED.
5. MECHANICAL CONTRACTOR SHALL ARRANGE WORK IN SUCH WAY THAT OTHER SERVICES ARE NOT DISRUPTED.
6. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING DRYWALL CEILING TO FACILITATE REMOVAL OF MECHANICAL AND ELECTRICAL SERVICES OUTLINED IN SCOPE OF WORKS.
7. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND ENGINEER. PROVIDE ACCESS PANELS/DOORS AS REQUIRED.
8. ALL REDUNDANT AND OBSOLETE OPENINGS IN SLAB SHALL BE FIRE STOPPED, SEALED, CAPPED, AND MADE GOOD.
9. WHERE DUCTWORK, PIPING AND EQUIPMENT IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED DUCT/PIPE HANGERS, VALVES, DAMPERS, ETC.
10. MECHANICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
11. INSTALLATION HEIGHT OF TEMPERATURE SENSORS SHALL BE 4'-0". (TYPICAL FOR ALL)

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE 3RD FLOOR SHALL ONLY BE DONE AFTER HOURS (5:30 PM TO 8:30 AM). THIS INCLUDES REMOVAL & CAPPING OF OUTDOOR AIR DUCTWORK IN CEILING SPACE, REMOVAL/CAPPING/NEW CONNECTION OF CHILLED WATER PIPES & HEATING WATER PIPES, REMOVAL/CAPPING/NEW CONNECTION OF CONDENSATE DRAIN, FLOOR SLAB CUTTING/PATCHING, E.T.C. CONTRACTOR SHALL COORDINATE WITH REGION'S PM PRIOR TO COMMENCEMENT OF ANY WORK.

DRAWING NOTES

1. NEW FLOOR MOUNTED WALL-FIN CABINET RADIATOR C/W ENCLOSURE. PROVIDE NEW HEATING WATER PIPE AND CONNECT TO NEW/EXISTING HEATING WATER PIPE IN THIRD FLOOR CEILING SPACE. REFER TO DETAIL NO. 3 & 4/M-104. (TYPICAL)
2. PROVIDE NEW CONDENSATE DRAIN C/W P-TRAP TO SERVE FAN COIL UNIT AND EXTEND AS SHOWN. SIZE PIPE AS INDICATED. (TYPICAL)
3. NEW JANITOR ROOM FLOOR WATER DETECTION SENSOR. PROVIDE NECESSARY CONTROL WIRING, FLOOR SLAB CUTTING/PATCHING AS REQUIRED.
4. DROP NEW CHILLED WATER SUPPLY & HEATING WATER SUPPLY PIPES DOWN TO 3RD FLOOR CEILING SPACE AND CONNECT TO EXISTING SERVICES. REFER TO 3RD FLOOR MECHANICAL NEW LAYOUT. EXACT LOCATION TO BE CONFIRMED ON SITE.
5. INDIRECTLY TERMINATE NEW CONDENSATE DRAIN PIE TO HUB DRAIN NEAR SINK.
6. CONNECT NEW CONDENSATE DRAIN PIPE TO EXISTING STORM DRAIN PIPING IN CEILING SPACE AT THIS APPROXIMATE LOCATION. PIPE SHALL BE CONNECTED VERTICALLY. (TYPICAL)
7. TERMINATE NEW CONDENSATE DRAIN PIPE AT EXISTING JANITOR'S SINK. PROVIDE FLOOD SENSOR IN JAN. CLOSET. (TYPICAL)
8. DROP NEW CHILLED WATER RETURN & HEATING WATER RETURN PIPES DOWN TO 3RD FLOOR CEILING SPACE AND CONNECT TO EXISTING RISER AT ELECTRICAL ROOM. REFER TO 3RD FLOOR MECHANICAL NEW LAYOUT. EXACT LOCATION TO BE CONFIRMED ON SITE.
9. PRESSURE TEST ALL NEW PIPING FOR 24 HOURS WITH NO LOSS OF PRESSURE PRIOR TO INSULATING FITTINGS AND OPENING MAIN VALVES. (TYPICAL)
10. NEW FAN COIL UNIT IN CEILING SPACE. INSTALL UNIT TIGHT TO CEILING SLAB AS HIGH AS POSSIBLE. PROVIDE UNIT SUPPORTS AS REQUIRED. (TYPICAL)
11. PROVIDE NEW 25ø CHILLED WATER SUPPLY/RETURN WATER PIPE & 20ø HEATING WATER SUPPLY/ RETURN PIPE TO NEW FAN COIL UNIT C/W ISOLATION VALVE, BALANCING VALVE, CONTROL VALVE AND CONTROL WIRING. (TYPICAL)
12. NEW WALL FIN RAD ENCLOSURE SHALL BE CONTINUOUS FROM WALL TO WALL. PROVIDE END CAPS NEAR WALL AS REQUIRED. ENCLOSURE SHALL HAVE ACCESS PANEL WHERE CONTROL VALVES ARE LOCATED. ENCLOSURE SHALL BE ACCESSIBLE AT ALL TIMES.
13. AT EACH CHANGE OF DIRECTION ON CHILLED WATER PIPING CONTRACTOR TO PROVIDE OFFSET AS PER MECHANICAL DETAIL NO. 10/M-104. (TYPICAL)
14. NEW 20ø HEATING SUPPLY/RETURN PIPE FROM NEW/EXISTING HEATING SUPPLY/RETURN PIPE MAIN LOCATED IN THIRD FLOOR CEILING SPACE. PROVIDE AN ALLOWANCE FOR FLOOR SLAB CUTTING/ DRILLING/ FIRE-STOPPING AS REQUIRED. CONTRACTOR TO ENSURE ALL PIPING ARE ENCLOSED WITHIN RAD ENCLOSURE. PROVIDE ALL NECESSARY FITTING/PIPE EXTENSION AS REQUIRED.
15. INDIRECTLY TERMINATE NEW CONDENSATE DRAIN PIPE TO HUB DRAIN NEAR SINK

1 M-402 TYPE 'A9 TO A12' WALL FIN RADIATION PIPING SCHEMATIC
SCALE: N.T.S.

2 M-402 TYPE 'B22' TO 'B28' WALL FIN RADIATION PIPING SCHEMATIC
SCALE: N.T.S.

3 M-402 TYPE 'C6 TO C8' WALL FIN RADIATION PIPING SCHEMATIC
SCALE: N.T.S.

4 M-402 DOUBLE WALL FIN RADIATION DETAIL
SCALE: N.T.S.

AREA 'C'

SUBMISSION	DATE	DESCRIPTION
1	03-14-2022	ISSUED FOR 60% REVIEW
2	04-26-2022	ISSUED FOR 80% REVIEW
3	05-31-2022	ISSUED FOR 97% REVIEW
4	06-13-2022	ISSUED FOR TENDER
5	07-21-2022	ISSUED AS PER ADDENDUM M-2

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LICENSED PROFESSIONAL ENGINEER
G.V. YOUDELIS
06/13/2022
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	4TH
BASE DATE:	01-01-2022

PROJECT:

PROJECT #9907

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100m

DRAWN BY: **S.P.R./G.G.**

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL 4TH FLOOR
AREA 'B'
HYDRONIC NEW LAYOUT

SHEET NUMBER:

M-402

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
3. CONTRACTOR TO COORDINATE WORK ON SITE WITH EXISTING & NEW MECHANICAL, STRUCTURAL AND ELECTRICAL SERVICES.
4. CONTRACTOR IS RESPONSIBLE TO MAKE SITE MEASUREMENTS AND TO ENSURE THAT ALL CLEARANCES AND ACCESS NECESSARY ARE PROVIDED.
5. MECHANICAL CONTRACTOR SHALL ARRANGE WORK IN SUCH WAY THAT OTHER SERVICES ARE NOT DISRUPTED.
6. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING DRYWALL CEILING TO FACILITATE REMOVAL OF MECHANICAL AND ELECTRICAL SERVICES OUTLINED IN SCOPE OF WORKS.
7. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND ENGINEER. PROVIDE ACCESS PANELS/DOORS AS REQUIRED.
8. ALL REDUNDANT AND OBSOLETE OPENINGS IN SLAB SHALL BE FIRE STOPPED, SEALED, CAPPED, AND MADE GOOD.
9. WHERE DUCTWORK, PIPING AND EQUIPMENT IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED DUCT/PIPE HANGERS, VALVES, DAMPERS, ETC.
10. MECHANICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
11. INSTALLATION HEIGHT OF TEMPERATURE SENSORS SHALL BE 4'-0". (TYPICAL FOR ALL)

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE 3RD FLOOR SHALL ONLY BE DONE AFTER HOURS (5:30 PM TO 8:30 AM). THIS INCLUDES REMOVAL & CAPPING OF OUTDOOR AIR DUCTWORK IN CEILING SPACE, REMOVAL/CAPPING/NEW CONNECTION OF CHILLED WATER PIPES & HEATING WATER PIPES, REMOVAL/CAPPING/NEW CONNECTION OF CONDENSATE DRAIN, FLOOR SLAB CUTTING/PATCHING, E.T.C.. CONTRACTOR SHALL COORDINATE WITH REGION'S PM PRIOR TO COMMENCEMENT OF ANY WORK.

DRAWING NOTES

1. NEW CONTROL VALVE FOR PERIMETER RADIATOR. CONTROL VALVE SHALL BE CONNECTED TO ASSOCIATED CONTROLLER AS SHOWN. (TYPICAL)
2. NEW TEMPERATURE SENSOR. PROVIDE CONTROL WIRING AS REQUIRED. EXACT LOCATION TO BE CONFIRMED ON SITE WITH THE ARCHITECT. (TYPICAL)
3. NEW FAN COIL UNIT. PROVIDE NEW BAS CONTROLLER IN CEILING SPACE. PROVIDE CONTROL WIRING AND TRANSFORMER AS REQUIRED. CONTROLLER SHALL BE INSTALLED INSIDE FAN COIL UNIT. COORDINATE WORK WITH FAN COIL UNIT MANUFACTURER. (TYPICAL)
4. NEW TEMPERATURE SENSOR WITH CO_2 SENSOR. PROVIDE CONTROL WIRING. EXACT LOCATION TO BE CONFIRMED ON SITE WITH THE ARCHITECT. (TYPICAL)
5. NEW JANITOR ROOM FLOOR WATER DETECTION SENSOR. PROVIDE NECESSARY CONTROL WIRING, FLOOR SLAB CUTTING/PATCHING AS REQUIRED.
6. NEW CONTROLS PANEL IN ELECTRICAL ROOM BY CONTROLS CONTRACTOR. POWER BY DIV. 16.
7. EXISTING AVERAGING TEMPERATURE SENSOR FOR THIS FLOOR C/W CONTROL WIRING TO REMAIN.
8. NEW FRESH AIR SUPPLY FAN, INTERLOCK FAN TO ASSOCIATED CONTROLLER & BMS

AREA 'A'

SUBMISSION	DATE	DESCRIPTION
1	03-14-2022	ISSUED FOR 60% REVIEW
2	04-26-2022	ISSUED FOR 80% REVIEW
3	05-31-2022	ISSUED FOR 97% REVIEW
4	06-13-2022	ISSUED FOR TENDER
5	07-21-2022	ISSUED AS PER ADDENDUM M-2

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LICENSED PROFESSIONAL ENGINEER
G.V. YOUDELIS
06/13/2022
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	4TH
BASE DATE:	01-01-2022

PROJECT:

PROJECT #9907

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100m

DRAWN BY: **S.P.R./G.G.**

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL 4TH FLOOR
AREA 'A'
CONTROLS LAYOUT

SHEET NUMBER:

M-500

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
3. CONTRACTOR TO COORDINATE WORK ON SITE WITH EXISTING & NEW MECHANICAL, STRUCTURAL AND ELECTRICAL SERVICES.
4. CONTRACTOR IS RESPONSIBLE TO MAKE SITE MEASUREMENTS AND TO ENSURE THAT ALL CLEARANCES AND ACCESS NECESSARY ARE PROVIDED.
5. MECHANICAL CONTRACTOR SHALL ARRANGE WORK IN SUCH WAY THAT OTHER SERVICES ARE NOT DISRUPTED.
6. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING DRYWALL CEILING TO FACILITATE REMOVAL OF MECHANICAL AND ELECTRICAL SERVICES OUTLINED IN SCOPE OF WORKS.
7. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND ENGINEER. PROVIDE ACCESS PANELS/DOORS AS REQUIRED.
8. ALL REDUNDANT AND OBSOLETE OPENINGS IN SLAB SHALL BE FIRE STOPPED, SEALED, CAPPED, AND MADE GOOD.
9. WHERE DUCTWORK, PIPING AND EQUIPMENT IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED DUCT/PIPE HANGERS, VALVES, DAMPERS, ETC.
10. MECHANICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
11. INSTALLATION HEIGHT OF TEMPERATURE SENSORS SHALL BE 4'-0". (TYPICAL FOR ALL)

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE 3RD FLOOR SHALL ONLY BE DONE AFTER HOURS (5:30 PM TO 8:30 AM). THIS INCLUDES REMOVAL & CAPPING OF OUTDOOR AIR DUCTWORK IN CEILING SPACE, REMOVAL/CAPPING/NEW CONNECTION OF CHILLED WATER PIPES & HEATING WATER PIPES, REMOVAL/CAPPING/NEW CONNECTION OF CONDENSATE DRAIN, FLOOR SLAB CUTTING/PATCHING, E.T.C.. CONTRACTOR SHALL COORDINATE WITH REGION'S PM PRIOR TO COMMENCEMENT OF ANY WORK.

DRAWING NOTES

1. NEW CONTROL VALVE FOR PERIMETER RADIATOR. CONTROL VALVE SHALL BE CONNECTED TO ASSOCIATED CONTROLLER AS SHOWN. (TYPICAL)
2. NEW TEMPERATURE SENSOR. PROVIDE CONTROL WIRING AS REQUIRED. EXACT LOCATION TO BE CONFIRMED ON SITE WITH THE ARCHITECT. (TYPICAL)
3. NEW FAN COIL UNIT. PROVIDE NEW BAS CONTROLLER IN CEILING SPACE. PROVIDE CONTROL WIRING AND TRANSFORMER AS REQUIRED. CONTROLLER SHALL BE INSTALLED INSIDE FAN COIL UNIT. COORDINATE WORK WITH FAN COIL UNIT MANUFACTURER. (TYPICAL)
4. NEW TEMPERATURE SENSOR WITH CO_2 SENSOR. PROVIDE CONTROL WIRING. EXACT LOCATION TO BE CONFIRMED ON SITE WITH THE ARCHITECT. (TYPICAL)
5. NEW JANITOR ROOM FLOOR WATER DETECTION SENSOR. PROVIDE NECESSARY CONTROL WIRING, FLOOR SLAB CUTTING/PATCHING AS REQUIRED.
6. NEW CONTROLS PANEL IN ELECTRICAL ROOM BY CONTROLS CONTRACTOR. POWER BY DIV. 16.
7. EXISTING AVERAGING TEMPERATURE SENSOR FOR THIS FLOOR C/W CONTROL WIRING TO REMAIN.
8. NEW FRESH AIR SUPPLY FAN, INTERLOCK FAN TO ASSOCIATED CONTROLLER & BMS

AREA 'B'

SUBMISSION	DATE	DESCRIPTION
1	03-14-2022	ISSUED FOR 60% REVIEW
2	04-26-2022	ISSUED FOR 80% REVIEW
3	05-31-2022	ISSUED FOR 97% REVIEW
4	06-13-2022	ISSUED FOR TENDER
5	07-21-2022	ISSUED AS PER ADDENDUM M-2

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LICENSED PROFESSIONAL ENGINEER
GEORGE YOUDELIS
06/13/2022
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	4TH
BASE DATE:	01-01-2022

PROJECT:

PROJECT #9907

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100m

DRAWN BY: **S.P.R./G.G.**

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL 4TH FLOOR
AREA 'B'
CONTROLS LAYOUT

SHEET NUMBER:

M-501

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
3. CONTRACTOR TO COORDINATE WORK ON SITE WITH EXISTING & NEW MECHANICAL, STRUCTURAL AND ELECTRICAL SERVICES.
4. CONTRACTOR IS RESPONSIBLE TO MAKE SITE MEASUREMENTS AND TO ENSURE THAT ALL CLEARANCES AND ACCESS NECESSARY ARE PROVIDED.
5. MECHANICAL CONTRACTOR SHALL ARRANGE WORK IN SUCH WAY THAT OTHER SERVICES ARE NOT DISRUPTED.
6. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING DRYWALL CEILING TO FACILITATE REMOVAL OF MECHANICAL AND ELECTRICAL SERVICES OUTLINED IN SCOPE OF WORKS.
7. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND ENGINEER. PROVIDE ACCESS PANELS/DOORS AS REQUIRED.
8. ALL REDUNDANT AND OBSOLETE OPENINGS IN SLAB SHALL BE FIRE STOPPED, SEALED, CAPPED, AND MADE GOOD.
9. WHERE DUCTWORK, PIPING AND EQUIPMENT IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED DUCT/PIPE HANGERS, VALVES, DAMPERS, ETC.
10. MECHANICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
11. INSTALLATION HEIGHT OF TEMPERATURE SENSORS SHALL BE 4'-0". (TYPICAL FOR ALL)

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE 3RD FLOOR SHALL ONLY BE DONE AFTER HOURS (5:30 PM TO 8:30 AM). THIS INCLUDES REMOVAL & CAPPING OF OUTDOOR AIR DUCTWORK IN CEILING SPACE, REMOVAL/CAPPING/NEW CONNECTION OF CHILLED WATER PIPES & HEATING WATER PIPES, REMOVAL/CAPPING/NEW CONNECTION OF CONDENSATE DRAIN, FLOOR SLAB CUTTING/PATCHING, E.T.C.. CONTRACTOR SHALL COORDINATE WITH REGION'S PM PRIOR TO COMMENCEMENT OF ANY WORK.

DRAWING NOTES

1. NEW CONTROL VALVE FOR PERIMETER RADIATOR. CONTROL VALVE SHALL BE CONNECTED TO ASSOCIATED CONTROLLER AS SHOWN. (TYPICAL)
2. NEW TEMPERATURE SENSOR. PROVIDE CONTROL WIRING AS REQUIRED. EXACT LOCATION TO BE CONFIRMED ON SITE WITH THE ARCHITECT. (TYPICAL)
3. NEW FAN COIL UNIT. PROVIDE NEW BAS CONTROLLER IN CEILING SPACE. PROVIDE CONTROL WIRING AND TRANSFORMER AS REQUIRED. CONTROLLER SHALL BE INSTALLED INSIDE FAN COIL UNIT. COORDINATE WORK WITH FAN COIL UNIT MANUFACTURER. (TYPICAL)
4. NEW TEMPERATURE SENSOR WITH CO_2 SENSOR. PROVIDE CONTROL WIRING. EXACT LOCATION TO BE CONFIRMED ON SITE WITH THE ARCHITECT. (TYPICAL)
5. NEW JANITOR ROOM FLOOR WATER DETECTION SENSOR. PROVIDE NECESSARY CONTROL WIRING, FLOOR SLAB CUTTING/PATCHING AS REQUIRED.
6. NEW CONTROLS PANEL IN ELECTRICAL ROOM BY CONTROLS CONTRACTOR. POWER BY DIV. 16.
7. EXISTING AVERAGING TEMPERATURE SENSOR FOR THIS FLOOR C/W CONTROL WIRING TO REMAIN.
8. NEW FRESH AIR SUPPLY FAN, INTERLOCK FAN TO ASSOCIATED CONTROLLER & BMS

AREA 'C'

SUBMISSION	DATE	DESCRIPTION
1	03-14-2022	ISSUED FOR 60% REVIEW
2	04-26-2022	ISSUED FOR 80% REVIEW
3	05-31-2022	ISSUED FOR 97% REVIEW
4	06-13-2022	ISSUED FOR TENDER
5	07-21-2022	ISSUED AS PER ADDENDUM M-2

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LICENSED PROFESSIONAL ENGINEER
G.G. YOUDELIS
06/13/2022
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	4TH
BASE DATE:	01-01-2022

PROJECT:

PROJECT #9907

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100m

DRAWN BY: **S.P.R./G.G.**

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL 4TH FLOOR
AREA 'C'
CONTROLS LAYOUT

SHEET NUMBER:

M-502