THE REGIONAL MUNICIPALITY OF YORK

YORK REGION ADMINISTRATIVE CENTRE

INTERIOR FIT-UP - 'PACKAGE D'

17250 YONGE STREET
NEWMARKET, ONTARIO L3Y 4W5

CONTENT	ISSUED FOR	DATE	FILE No.
MECHANICAL DRAWINGS	ISSUED FOR CONSTRUCTION	SEPTEMBER 18, 2024	GPY-9920

GPY+ ASSOCIATES ENGINEERING INC.
MECHANICAL CONSULTING ENGINEERS
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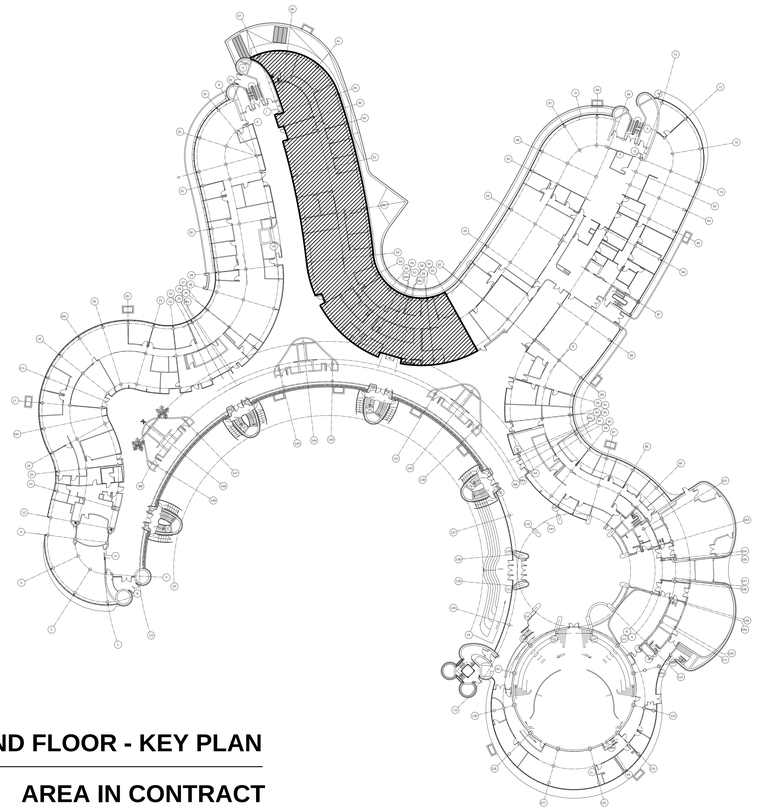
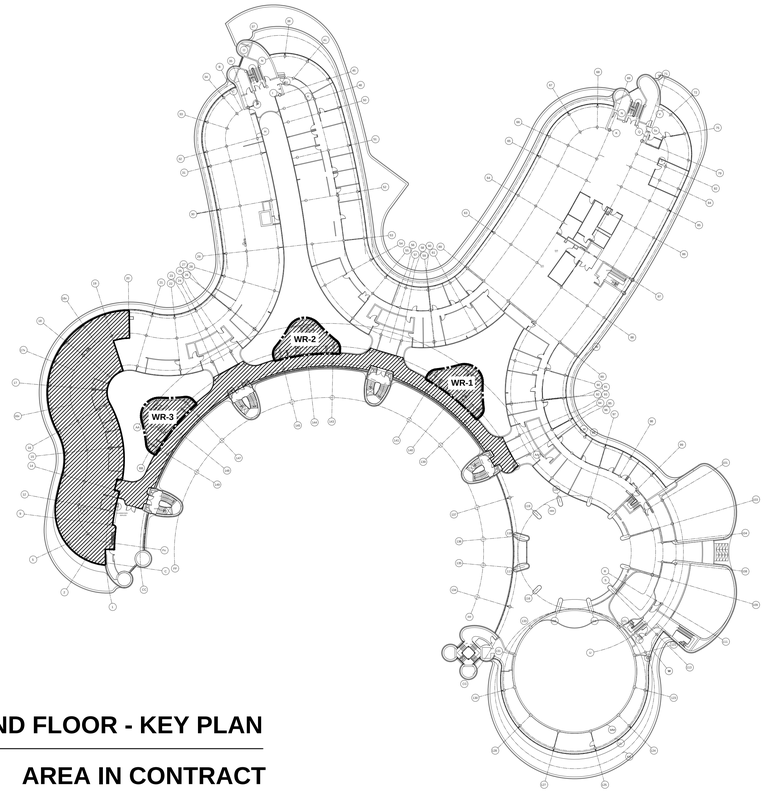


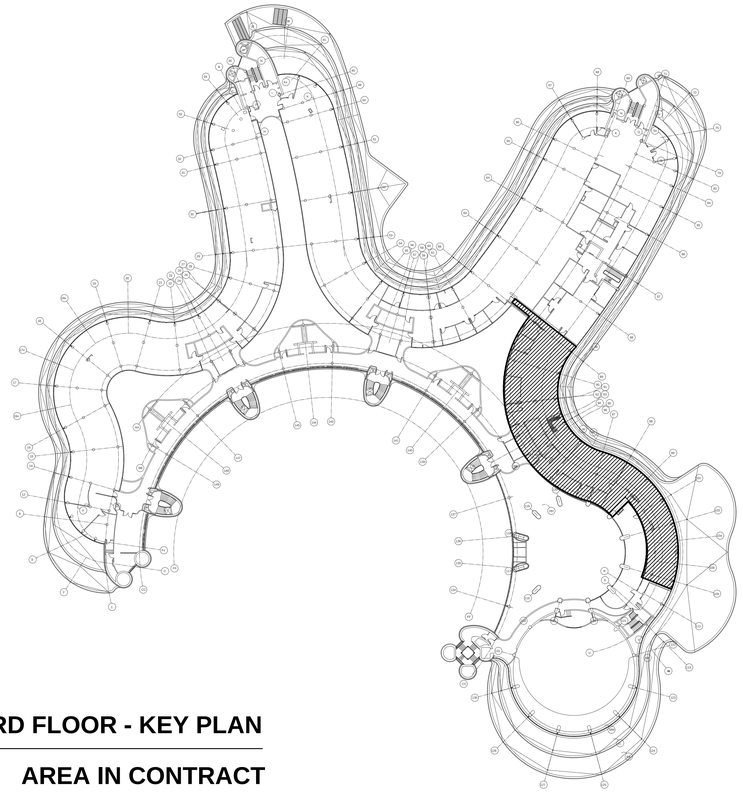
GROUND FLOOR - KEY PLAN

AREA IN CONTRACT



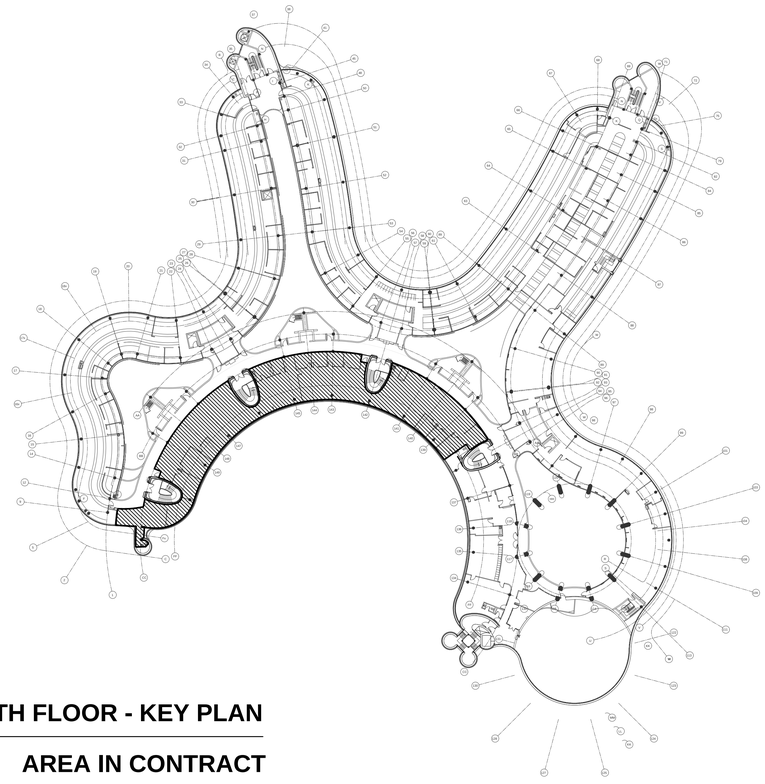
SECOND FLOOR - KEY PLAN

AREA IN CONTRACT



THIRD FLOOR - KEY PLAN

AREA IN CONTRACT



FOURTH FLOOR - KEY PLAN

AREA IN CONTRACT

SUBMISSION	DATE	DESCRIPTION
6	2024-09-18	ISSUED FOR CONSTRUCTION
5	2024-07-23	ISSUED AS PER ADDENDUM M-2
4	2024-07-15	ISSUED AS PER ADDENDUM M-1
3	2024-05-24	ISSUED FOR PERMIT/TENDER
2	2024-04-17	ISSUED FOR 90% PROGRESS REVIEW
1	2024-01-30	ISSUED FOR 60% PROGRESS REVIEW

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LICENSED PROFESSIONAL ENGINEER
G. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: NOT TO SCALE

DRAWN BY: K.J/G.P.Y.

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

KEYPLANS

SHEET NUMBER:

M-100

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.	DESCRIPTION	MODEL NO.	CAPACITY (TON)	UNIT SIZE	FAN SPEED	AIRFLOW (CFM) / FAN SPEED H: HIGH M: MEDIUM	ESP (IN. WC.)	CHILLED WATER COIL E.A.T. (DEF. F) DB	WB	L.A.T. (DEF. F) DB	WB	CAPACITY SENSIBLE	TOTAL	EWT	LWT	FLUID FLOW (GPM)	FLUID PD (FTwG)	NO. OF ROWS	HOT WATER COIL (RE-HEAT) EAT DB	LAT DB	SENSIBLE CAPACITY	EWT (DEG. F)	LWT (DEG. F)	FLUID FLOW (GPM)	FLUID PD (FTwG)	NO. OF ROWS	FAN (HP)	MCA	MSCP	WATTS	VOLTS/PH/HZ	WEIGHT (LBS)	QUANTITY
GROUND FLR FCU'S																																	
FC-1.19, 1.21, 1.23, 1.27, 1.28, 1.30, 1.31, 1.35, 1.40 & 1.41	JOHNSON CONTROLS	HORIZONTAL CONCEALED PLENUM RETURN FCU	FHP-003	0.5	3	HIGH	246	0.38	80	67	57.6	56.7	6054	7924	47	59	1.3	3.47	4									1/4	0.88	15	46	208/1/60 ECM	52	10
FC-1.3 TO 1.5, 1.14 TO 1.16, 1.18, 1.20, 1.22, 1.24, 1.25, 1.33, 1.34, 1.36 TO 1.38	JOHNSON CONTROLS	HORIZONTAL CONCEALED PLENUM RETURN FCU	FHP-006	1	6	HIGH	395	0.5	80	67	57.6	56.5	9734	12864	47	58.9	2.2	3.37	4									1/4	1.5	15	93	208/1/60 ECM	81	16
FC-1.1, 1.2, 1.6 TO 1.13, 1.17, 1.26, 1.29, 1.32 & 1.39	JOHNSON CONTROLS	HORIZONTAL CONCEALED PLENUM RETURN FCU	FHP-008	1.5	8	HIGH	501	0.38	80	67	57.1	56	12594	16994	47	59.3	2.8	6.38	4									1/4	1.5	15	86	208/1/60 ECM	97	15
SECOND FLR FCU'S																																	
FC-2.16, 2.18 TO 2.20, 2.22 & 2.24	JOHNSON CONTROLS	HORIZONTAL CONCEALED PLENUM RETURN FCU	FHP-003	0.5	3	HIGH	246	0.38	80	67	57.6	56.7	6054	7924	47	59	1.3	3.47	4									1/4	0.88	15	46	208/1/60 ECM	52	6
FC-2.14, 2.17, 2.21, 2.23 & 2.26	JOHNSON CONTROLS	HORIZONTAL CONCEALED PLENUM RETURN FCU	FHP-006	1	6	HIGH	395	0.5	80	67	57.6	56.5	9734	12864	47	58.9	2.2	3.37	4									1/4	1.5	15	93	208/1/60 ECM	81	4
FC-2.01 TO 2.13, 2.15, 2.25 & 2.27	JOHNSON CONTROLS	HORIZONTAL CONCEALED PLENUM RETURN FCU	FHP-008	1.5	8	HIGH	501	0.38	80	67	57.1	56	12594	16994	47	59.3	2.8	6.38	4									1/4	1.5	15	86	208/1/60 ECM	97	15
THIRD FLOOR FCU'S																																	
FC-3.22 TO 3.24	JOHNSON CONTROLS	HORIZONTAL CONCEALED PLENUM RETURN FCU	FHP-003	0.5	3	HIGH	246	0.38	80	67	57.6	56.7	6054	7924	47	59	1.3	3.47	4									1/4	0.88	15	46	208/1/60 ECM	52	3
FC-3.08, 3.10 TO 3.12, 3.19 TO 3.21	JOHNSON CONTROLS	HORIZONTAL CONCEALED PLENUM RETURN FCU	FHP-006	1	6	HIGH	395	0.5	80	67	57.6	56.5	9734	12864	47	58.9	2.2	3.37	4									1/4	1.5	15	93	208/1/60 ECM	81	7
FC-3.04 TO 3.07 & 3.09	JOHNSON CONTROLS	HORIZONTAL CONCEALED PLENUM RETURN FCU	FHP-008	1.5	8	HIGH	501	0.38	80	67	57.1	56	12594	16994	47	59.3	2.8	6.38	4									1/4	1.5	15	86	208/1/60 ECM	97	5
FOURTH FLR FCU'S																																	
FC-4.22 TO 4.28, 4.33 TO 4.36	JOHNSON CONTROLS	HORIZONTAL CONCEALED PLENUM RETURN FCU	FHP-003	0.5	3	HIGH	246	0.38	80	67	57.6	56.7	6054	7924	47	59	1.3	3.47	4	70	95.8	6996	140	120.1	0.7	1.24	1	1/4	0.88	15	46	208/1/60 ECM	52	11
FC-4.02 TO 4.04, 4.06, 4.08, 4.11, 4.13, 4.14, 4.17, 4.19, 4.29, 4.30 & 4.37	JOHNSON CONTROLS	HORIZONTAL CONCEALED PLENUM RETURN FCU	FHP-006	1	6	HIGH	395	0.5	80	67	57.6	56.5	9734	12864	47	58.9	2.2	3.37	4	70	95.8	11346	140	120.1	1.1	0.59	1	1/4	1.5	15	93	208/1/60 ECM	81	13
FC-4.01, 4.05, 4.07, 4.09, 4.10, 4.12, 4.15, 4.16, 4.18, 4.20, 4.21, 4.31 & 4.32	JOHNSON CONTROLS	HORIZONTAL CONCEALED PLENUM RETURN FCU	FHP-008	1.5	8	HIGH	501	0.38	80	67	57.1	56	12594	16994	47	59.3	2.8	6.38	4	70	96.1	14416	140	120.1	1.4	1.19	1	1/4	1.5	15	86	208/1/60 ECM	97	13

1. FAN COIL UNITS SHALL BE PROVIDED WITH SINGLE POWER LOCATION, 18 GAUGE CABINET, 2-10" ECM MOTOR, FAN WITH RELAY AND TRANSFORMER, INTEGRAL GALVANIZED DRAIN PAN (FOR COIL & VALVING), MANUAL AIR VENT, VIBRATION ISOLATORS, DISCONNECT, CONDENSATE OVERFLOW SWITCH, LAMACOID 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.
2. MANUFACTURER TO PROVIDE A TOTAL OF 5 COMPLETE SETS OF ADDITIONAL FAN COIL UNIT CONTROL BOARD FOR SPARE PARTS.
3. MANUFACTURER TO PROVIDE TELESCOPING BOTTOM PANEL C/W ACCESSORIES & KITS FOR FAN COIL UNITS FC-4.01, FC-4.02 & FC-4.03 TO ACCESS FAN COIL UNIT FOR SERVICING AND MAINTENANCE. PANEL SHALL BE FINISHED WITH A DURABLE POWDER COAT PAINT. COLOUR FINISH SHALL BE SELECTED BY ARCHITECT.

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 ACTUATORMPUT, 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 (WINTER)/23.5°C (SUMMER) AND MAXIMUM RELATIVE HUMIDITY OF 60%RH. IF RELATIVE HUMIDITY REACHES A SETPOINT HIGHER THAN 60%, THE FAN COIL UNIT SHALL OPERATE AT LOW SPEED UNTIL RELATIVE HUMIDITY DROPS TO 50%RH. DURING UNOCCUPIED MODE, THERMOSTAT SHALL MAINTAIN A MINIMUM OF 15°C AND A MAXIMUM OF 29.5°C; BUSINESS CENTER SHALL BE AT 23.9°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	LEVEL	TYPE	AIRFLOW (CFM)	EXT. S.P. (IN WC)	FLA (A)		FAN RPM	ELEC. DATA	WEIGHT (LBS.)	BASIS OF DESIGN	REMARKS
BF-1.1	BLOCK 'D'	GROUND	DIRECT DRIVE IN-LINE	1500	1.048	8.8	3/4 HP	1392	115V/1PH/60Hz MCA:11	93	GREENHECK SQ-140-VG	C/W SPEED CONTROLLER FOR BALANCING.
BF-2.1	BLOCK 'A'	SECOND	DIRECT DRIVE IN-LINE	1100	0.863	6.4	1/2 HP	1480	115V/1PH/60Hz MCA:8	71	GREENHECK SQ-120-VG	C/W SPEED CONTROLLER FOR BALANCING.
BF-3.2	BLOCK 'C'	THIRD	IN-LINE CABINET	500	0.80	4.1	145W	1398	115V/1PH/60Hz	40	GREENHECK CSP-A700-VG	C/W SPEED CONTROLLER FOR BALANCING.
BF-4.1	BLOCK 'A'	FOURTH	DIRECT DRIVE IN-LINE	800	0.80	6.4	1/2 HP	1725	115V/1PH/60Hz MCA:8	60	GREENHECK SQ-120-VG	C/W SPEED CONTROLLER FOR BALANCING.
BF-4.2	BLOCK 'C'	FOURTH	IN-LINE CABINET	400	0.50	2.45	103W	1579	115V/1PH/60Hz	37	GREENHECK CSP-A510-VG	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.

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	SUPPLY AIR DUCT UP
	SUPPLY AIR DUCT DOWN
	RETURN/EXHAUST AIR DUCT UP
	RETURN/EXHAUST AIR DUCT DOWN.
	SQUARE SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
	LINEAR SLOT SUPPLY AIR DIFFUSER
	NEW SUPPLY AIR DUCTWORK
	ACOUSTICALLY-LINED DUCTWORK
	EXISTING DUCTWORK TO REMAIN.
	EXISTING DUCTWORK / EQUIPMENT TO BE REMOVED
	FLEXIBLE DUCT COMPLETE WITH SPIN-ON
CTE	CONNECT TO EXISTING
(A)	NEW CO2 SENSOR
CU-2	EQUIPMENT DESIGNATION
	BALANCING DAMPER
F/D	FIRE DAMPER
(T)	EXISTING TEMPERATURE SENSOR
T	NEW TEMPERATURE SENSOR
E S N	EXISTING/NEW DOMESTIC COLD WATER
E S N	EXISTING/NEW DOMESTIC HOT WATER
E S N	EXISTING/NEW DOMESTIC REC. HOT WATER
SAN	SANITARY PIPE BELOW GRADE, BURIED
SAN	SANITARY ABOVE GRADE
V	SANITARY VENT
C	CONDENSATE DRAIN
HWR / HWS	EXISTING HEATING WATER SUPPLY/RETURN
HWR / HWS	NEW HEATING WATER SUPPLY/RETURN
F	NEW FIRE LINE
	GATE VALVE
(V)	DRAWING NOTES
FD	FLOOR DRAIN
	EXISTING DIFFUSER TO BE REMOVED
F.H.C.	FIRE HOSE CABINET
CHR / CHS	EXISTING CHILLED WATER SUPPLY/RETURN
CHR / CHS	NEW CHILLED WATER SUPPLY/RETURN
C.O.	CLEAN OUT
	PIPE UP, PIPE DOWN
	TRAP
CO CO	CLEANOUT
F.E.	FIRE EXTINGUISHER
'N'	NEW CONCEALED SPRINKLER HEAD
'N'	NEW SEMI-RECESSED SPRINKLER HEAD
EX	REMOVE EXISTING SPRINKLER HEAD
EX	EXISTING SPRINKLER HEAD TO REMAIN
A B C	A-SIZE OF DIFFUSER/GRILLE/REGISTER B-AIR QUANTITY (L/S) C-TYPE OF DIFFUSER/GRILLE/REGISTER
A B C	A-SIZE OF FAN POWERED BOX B-MIN AIR QUANTITY (L/S) C-MAX AIR QUANTITY (L/S)
'R'	RELOCATE

DIFFUSER SCHEDULE

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

REF.	MODEL No.	DESCRIPTION	REMARKS
A	SCDA	600MMX600MM 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	500MMX500MM 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	300MMX300MM 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 DIFFFUSER. 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 (VCRBEC) MOUNTED AT DIFFUSER NECK. PROVIDE SIGHT BAFFLE ON ALL INACTIVE AIR SLOTS.	B12 WHITE POWDER COAT FINISH
H	530	45° DEFLECTION TRANSFER AIR GRILLE - WALL/ CEILING MOUNTED, FIXED LOUVERS, 3/4" BLADE SPACING, FRONT BLADES PARALLEL TO LONG DIMENSION. SUITABLE FOR DRYWALL MOUNTING.	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	SBG5-3/4C,4-1/4,48	750x500x140	20	2	995	0.18	60	48.9	54.5	1000
WF-2	HYDRONIC	SBG5-3/4C,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 CAPABTIES BASED ON ENTERING AIR TEMPERATURE OF 18°C.
3. REFER TO MECHANICAL DETAILS FOR VALVING ARRANGEMENTS.
4. PROVIDE RITTLING SIBG 750mm LONG (MAX.) ARCHITECTURAL TYPE ENCLOSURE CABINETS (16 GAUGE) FOR 108mm@108mm 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 TIMESCOORDINATE 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 RAD ENCLOSURE. PROVIDE SAMPLE OF CABINET TO OWNER FOR THEIR REVIEW AND APPROVAL; UPON RECEPT 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 HOT	COLD	DRAIN	VENT
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	--	--	3"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 LOVAIR MONOLITH BASIN C/W TWO (2) SETS OF LOVAIR RIBBON SERIES (LRO10 RIBBON SOAP DISPENSER, L-R-020 RIBBON SENSOR TAP, FINISH TO BE STAINLESS STEEL.

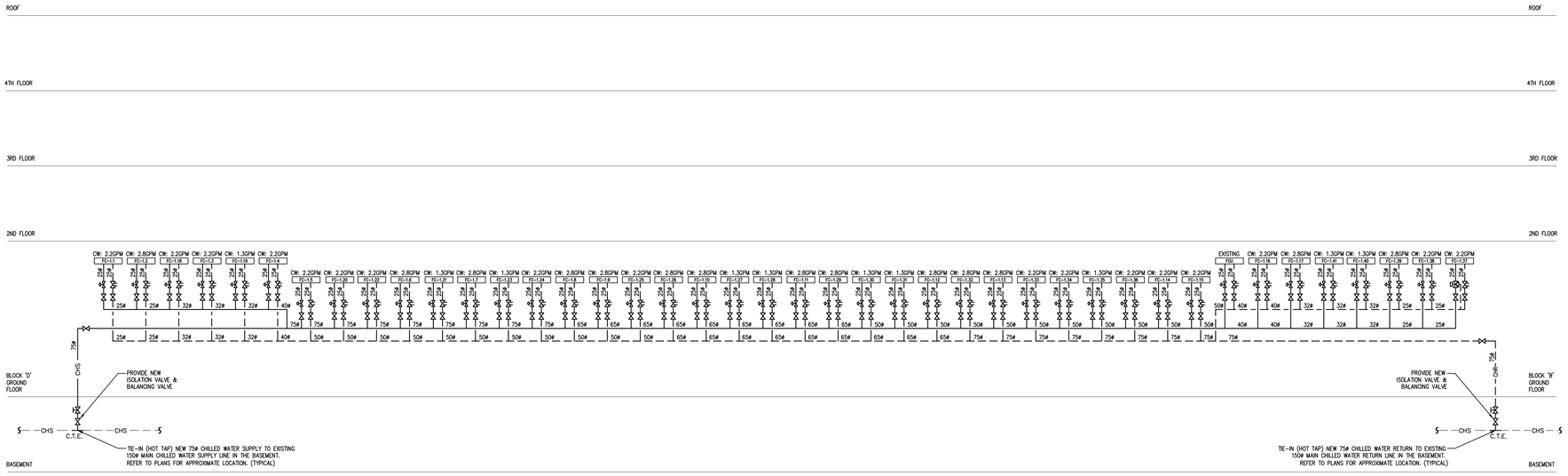
* FOR EXACT SIZE AND COLOUR OF BASIN, REFER TO ARCHITECTURAL DRAWINGS.
* LAVATORY SHALL ONLY BE INSTALLED BY LOVAIR TRAINED PERSONNEL.
* P-TRAP SHALL BE HEAVY CAST BRASS ADJUSTABLE TRAP WITH CLEANOUT PLUG ON THE BOTTOM OF THE TRAP.
* FAUCET, HAND SOAP DISPENSER TO BE INSTALLED BY MECHANICAL TRADES AND 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 95° THROUGH 115°., 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

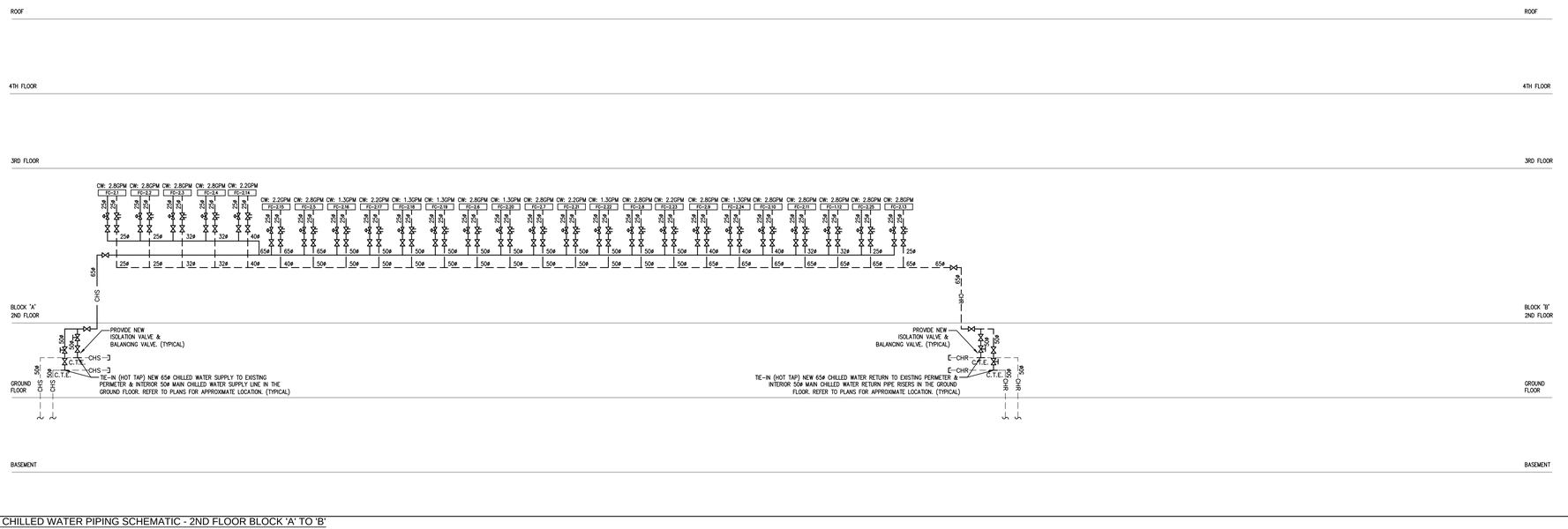
AMERICAN STANDARD AFWALL MILLENNIUM FLOWISE ELONGATED #3351101.020 HET TOILET, VITREOUS CHINA WITH EVERCLEAN ANTIMICROBIAL SURFACE WHICH INHIBITS THE GROWTH OF STAIN AND ODOR CAUSING BACTERIA MOLD AND MILDEW, ELONGATED BOWL, WHITE FINISH, WALL HUNG, SIPHON JET FLUSH ACTION, OPERATES IN THE RANGE OF 4.2 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 #5005TSCC.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 #6068.121, 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 #7400.140.002 SINGLE HANDLE FAUCET, POLISHED CHROME FINISH, ESCUTCHEON FOR MOUNTING ON 203 MM (8") CENTERS, WASHERLESS 40MM CERAMIC DISC VALVE CARTRIDGES, AERATOR OUTLET, 220 MM (8-11/16") PROJECTION REACH, TWO-FUNCTION PULL-DOWN SPRAY WITH NYLON HOSE AND TWO INTEGRAL CHECK VALVES. FAUCET CAN BE MOUNTED WITH OR WITHOUT SUPPLIED ESCUTCHEON OR HANDSPRAY LAWLER #570-86820, POINT OF USE THERMOSTATIC WATER MIXING VALVE, NICKEL PLATED BRONZE BODY, TEMPERATURE ADJUSTING SPINDLE, 10 MM (3/8") INLETS AND OUTLET FNPT CONNECTIONS, INTEGRAL CHECKS, OFFER TEMPERATURE RANGE BETWEEN 20 °C (95 °F) AND 46 °C (114.8 °F), SET VALVE TEMPERATURE AT 46 °C (114.8 °F), PROVIDE TEE, ADAPTORS AND FLEX COPPER TUBING TO SUIT INSTALLATION. PROVIDE TEMPERED WATER TO HOT SIDE OF FAUCET. MCGUIRE #LFBV170 FAUCET SUPPLIES, CHROME PLATED FINISH POLISHED BRASS, COMMERCIAL DUTY 1/4 TURN BALL VALVE ANGLE STOPS, 13 MM (1/2") I.D. INLET X 127 MM (5") HORIZONTAL EXTENSION TUBES, CONVERTIBLE 1/4 TURN/LOOSE KEY HANDLES, ESCUTCHEON AND FLEXIBLE COPPER RISERS. MCGUIRE #8912CB P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY, WITH SLIP NUT, 38 MM (1-1/2") SIZE, BOX FLANGE AND SEAMLESS TUBULAR WALL BEND. MCGUIRE PROWRAP #PW2000 SANITARY COVERING VANDAL-RESISTANT, FLEXIBLE SEAMLESS MOULDED CLOSED-CELL PVC RESIN, FORMULATED WITH ANTI-MICROBIAL ADDITIVE TO LIMIT THE GROWTH OF FUNGUS AND BACTERIA, TO EXPOSED PIPING (TO PROTECT AGAINST HEAT/CONTUSIONS) AS PER LOCAL CODES.

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

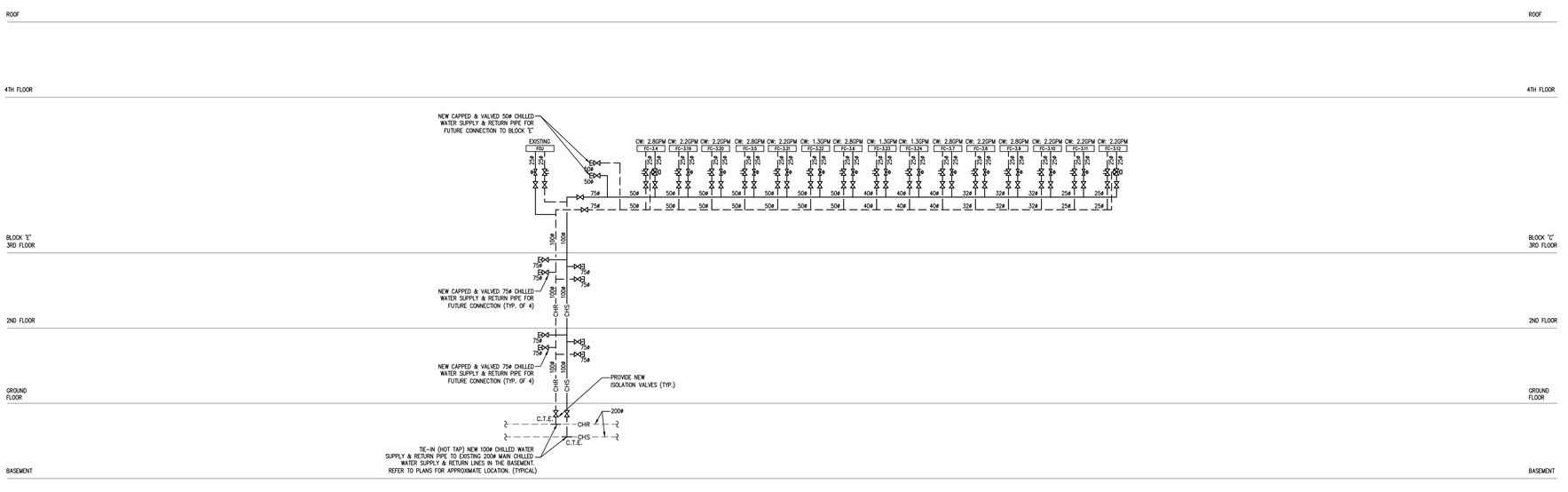
AMERICAN STANDARD AFWALL MILLENNIUM FLOWISE ELONGATED #3351101.020 HET TOILET, VITREOUS CHINA WITH EVERCLEAN ANTIMICROBIAL SURFACE WHICH INHIBITS THE GROWTH OF STAIN AND ODOR CAUSING BACTERIA MOLD AND MILDEW, ELONGATED BOWL, WHITE FINISH, WALL HUNG, SIPHON JET FLUSH ACTION, OPERATES IN THE RANGE OF 4.2 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 #5005TSCC.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 #6068.121, 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 PREVEN



M-102 CHILLED WATER PIPING SCHEMATIC - GROUND FLOOR BLOCK 'D' TO 'B'
SCALE: N.T.S.



2 M-102 CHILLED WATER PIPING SCHEMATIC - 2ND FLOOR BLOCK 'A' TO 'B'
SCALE: N.T.S.



3 M-102 CHILLED WATER PIPING SCHEMATIC - 3rd FLOOR BLOCK 'E' TO 'C'
SCALE: N.T.S.

SUBMISSION	DATE	DESCRIPTION
6	2024-09-18	ISSUED FOR CONSTRUCTION
5	2024-07-23	ISSUED AS PER ADDENDUM M-2
4	2024-07-15	ISSUED AS PER ADDENDUM M-1
3	2024-05-24	ISSUED FOR PERMIT/TENDER
2	2024-04-17	ISSUED FOR 90% PROGRESS REVIEW
1	2024-01-30	ISSUED FOR 60% PROGRESS REVIEW

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LICENSED PROFESSIONAL ENGINEER
GEORGE YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region
PROPERTY SERVICES

DEPARTMENT: BUILDING & FACILITIES
FLOOR: GROUND, 2ND, 3RD, 4TH
BASE DATE: 11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

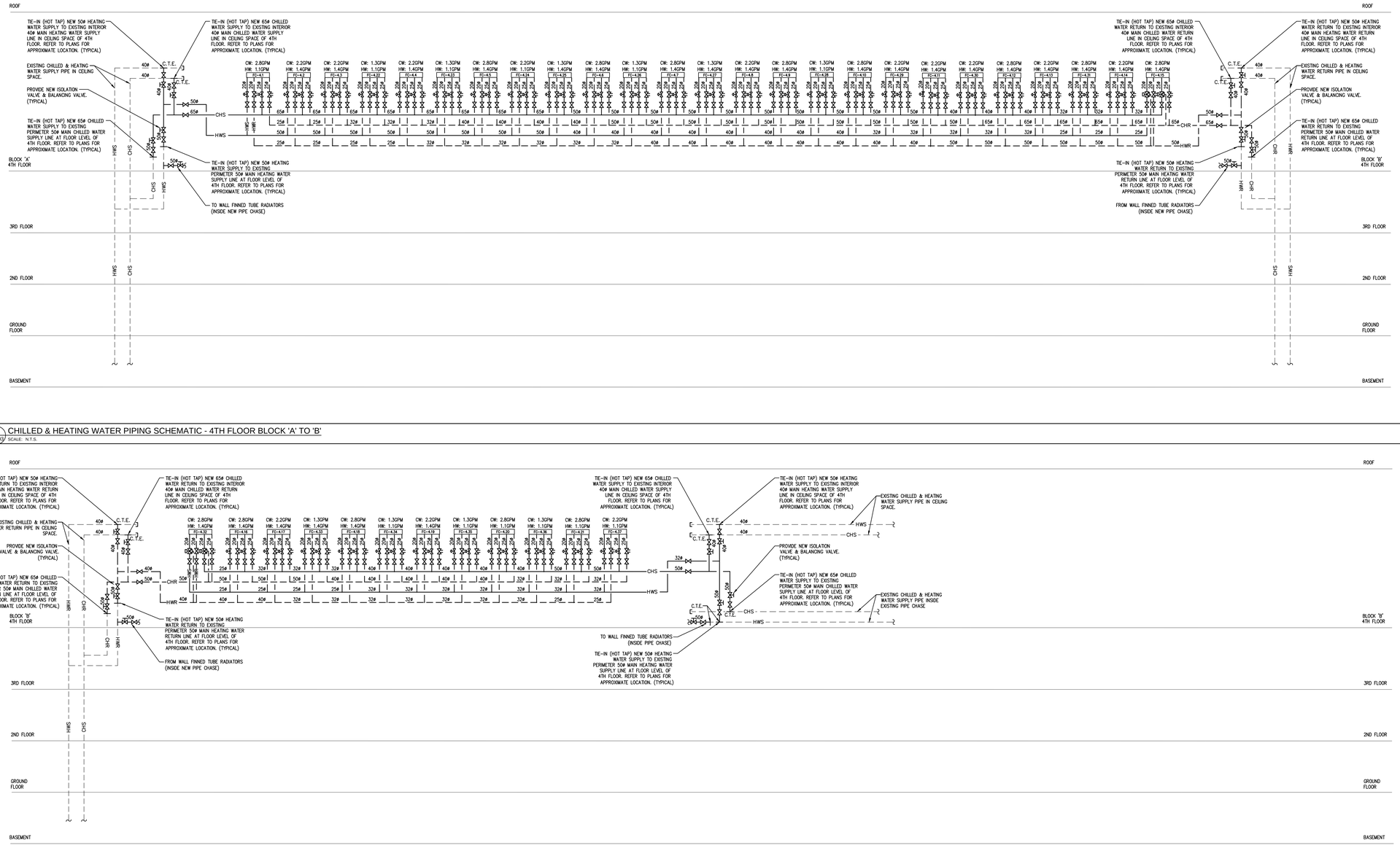
SCALE: NOT TO SCALE
DRAWN BY: K.J/G.P.Y.
SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PIPING SCHEMATIC DIAGRAM I

SHEET NUMBER:

M-102



1 M-103 CHILLED & HEATING WATER PIPING SCHEMATIC - 4TH FLOOR BLOCK 'A' TO 'B'
SCALE: N.T.S.

2 M-103 CHILLED & HEATING WATER PIPING SCHEMATIC - 4TH FLOOR BLOCK 'B'
SCALE: N.T.S.

SUBMISSION	DATE	DESCRIPTION
6	2024-09-18	ISSUED FOR CONSTRUCTION
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YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: NOT TO SCALE

DRAWN BY: K.J/G.P.Y.

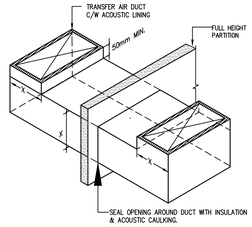
SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

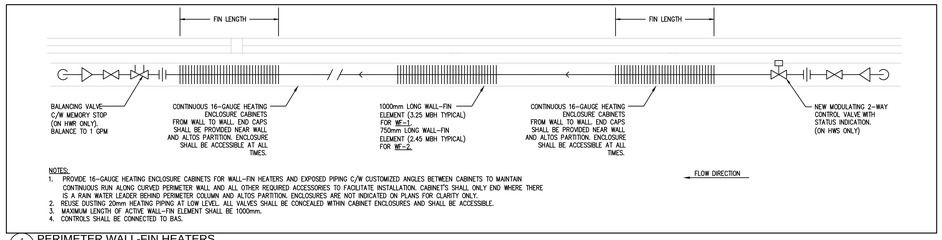
PIPING SCHEMATIC DIAGRAM II

SHEET NUMBER:

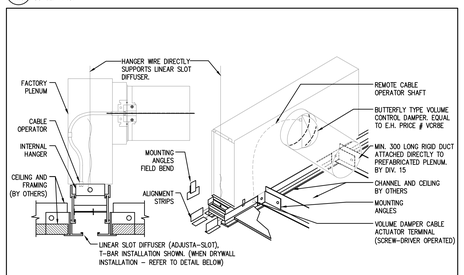
M-103



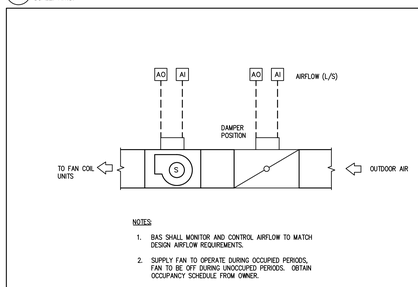
14 M-104 SCALE: N.T.S. ACOUSTIC TRANSFER AIR DUCT INSTALLATION DETAIL



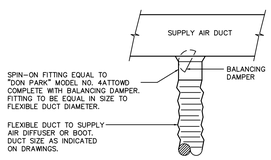
4 M-104 SCALE: N.T.S. PERIMETER WALL-FIN HEATERS



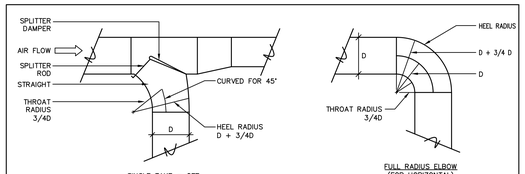
15 M-104 SCALE: N.T.S. TYPE 'L' (ADJUSTA-SLOT LINEAR DIFFUSER) INSTALLATION DETAIL

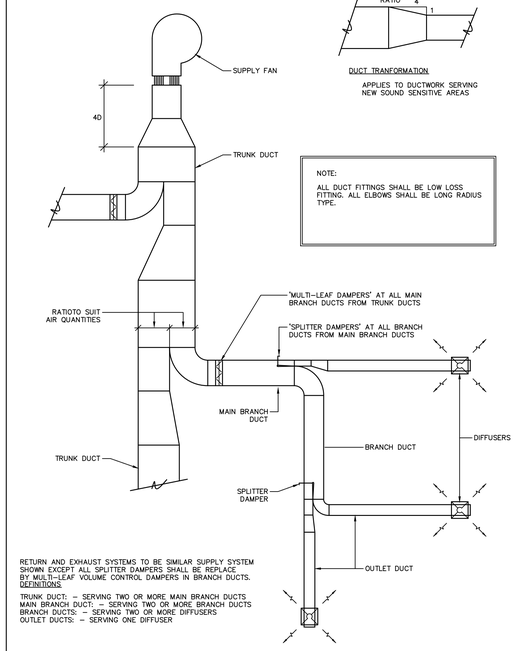


10 M-104 SCALE: N.T.S. CHILLED WATER PIPING ODD ANGLES INSTALLATION DETAIL

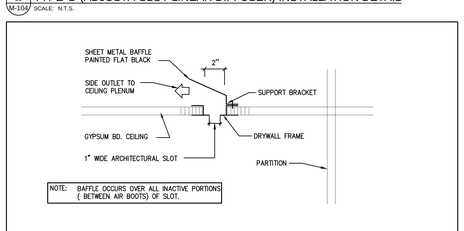


5 M-104 SCALE: N.T.S. TYPICAL SPIN-ON FITTING DETAIL



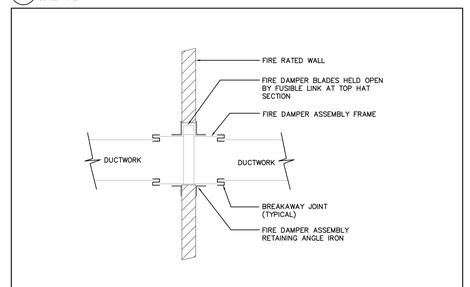


1 M-104 SCALE: N.T.S. DUCTWORK FITTINGS AND BALANCING DAMPER DETAILS

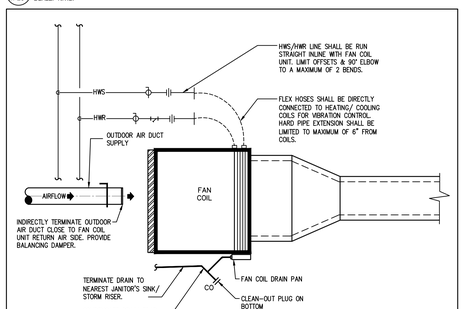


16 M-104 SCALE: N.T.S. TYPICAL ARCHITECTURAL SLOT RETURN AIR BAFFLE DETAIL

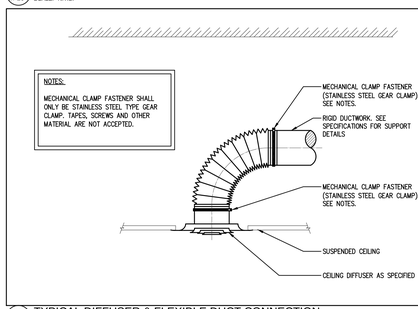
11 M-104 SCALE: N.T.S. FRESH AIR SUPPLY FAN CONTROL DIAGRAM



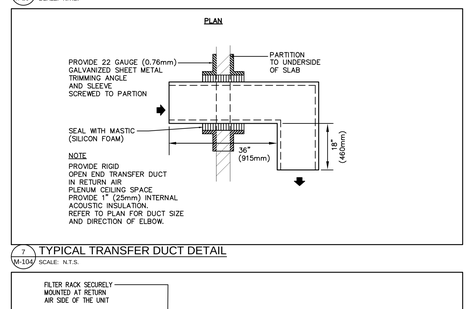
6 M-104 SCALE: N.T.S. DETAIL OF FIRE DAMPER INSTALLATION



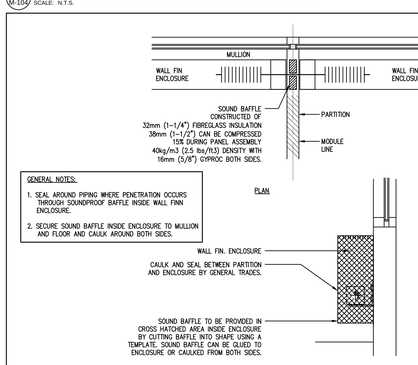
16 M-104 SCALE: N.T.S. TYPICAL FAN COIL INSTALLATION DETAIL



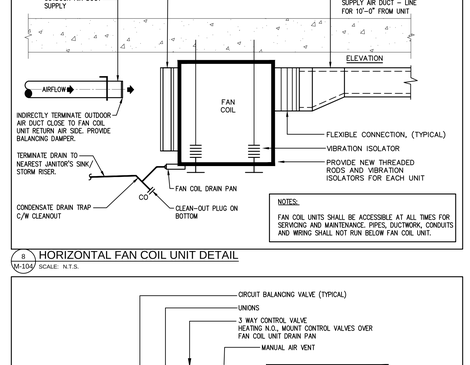
12 M-104 SCALE: N.T.S. TYPICAL DIFFUSER & FLEXIBLE DUCT CONNECTION



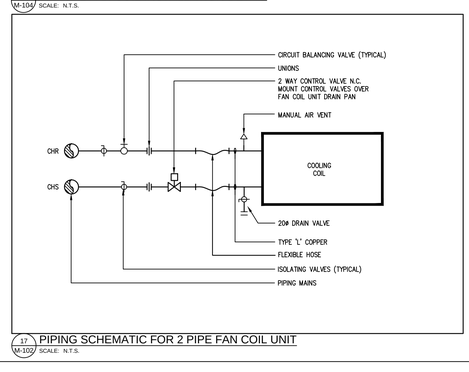
7 M-104 SCALE: N.T.S. TYPICAL TRANSFER DUCT DETAIL



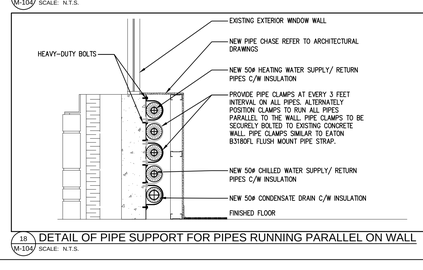
13 M-104 SCALE: N.T.S. WALL FINN ENCLOSURE SOUND BAFFLE AT DEMISING WALLS



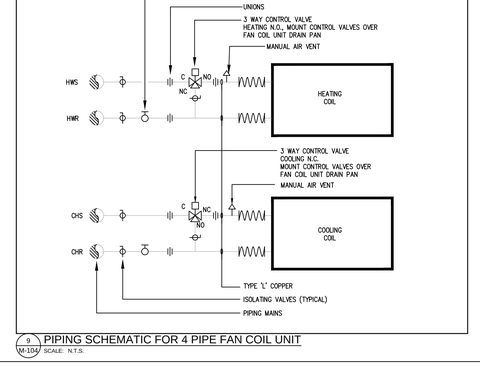
8 M-104 SCALE: N.T.S. HORIZONTAL FAN COIL UNIT DETAIL



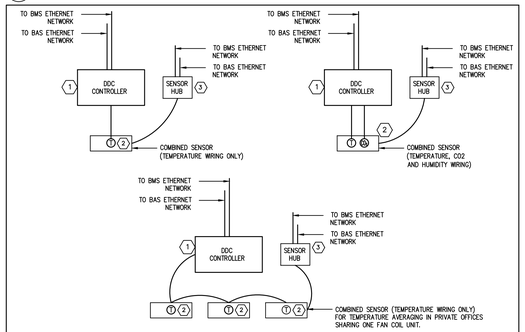
17 M-102 SCALE: N.T.S. PIPING SCHEMATIC FOR 2 PIPE FAN COIL UNIT



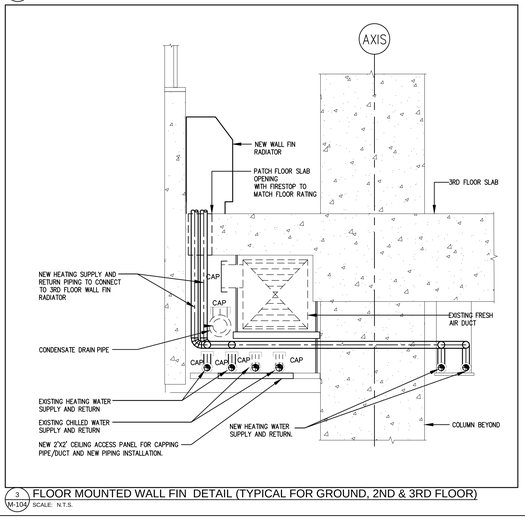
18 M-104 SCALE: N.T.S. DETAIL OF PIPE SUPPORT FOR PIPES RUNNING PARALLEL ON WALL



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



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



3 M-104 SCALE: N.T.S. FLOOR MOUNTED WALL FIN DETAIL (TYPICAL FOR GROUND, 2ND & 3RD FLOOR)

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6	2024-09-18	ISSUED FOR CONSTRUCTION
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LICENSED PROFESSIONAL ENGINEER
GEORGE YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region
PROPERTY SERVICES

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PROJECT:

TENDER # RFTC-652-22

YORK REGION
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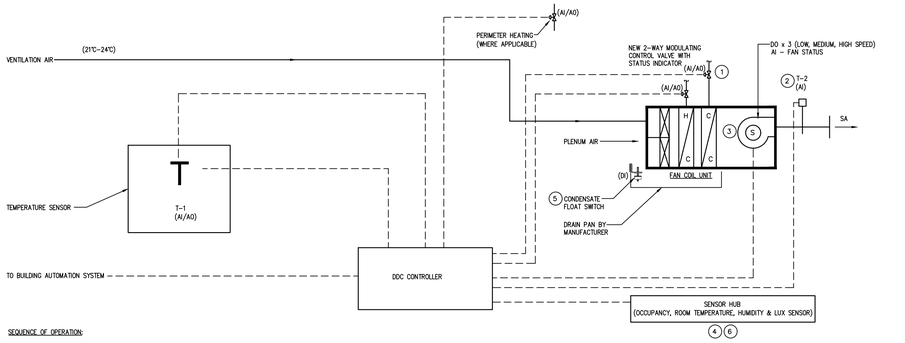
SCALE: NOT TO SCALE
DRAWN BY: K.J/G.P.Y.
SUBMITTED TO: MUNICIPALITY OF YORK
SHEET TITLE:

MECHANICAL DETAILS

SHEET NUMBER:

M-104



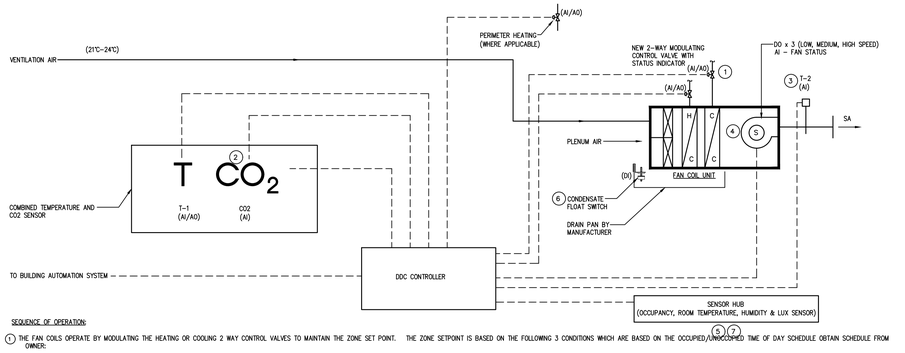
SEQUENCE OF OPERATION:

1. THE FAN COILS OPERATE BY MODULATING THE HEATING OR COOLING 2 WAY CONTROL VALVES TO MAINTAIN THE ZONE SET POINT. THE ZONE SETPOINT IS BASED ON THE FOLLOWING 3 CONDITIONS WHICH ARE BASED ON THE OCCUPIED/UNOCCUPIED TIME OF DAY SCHEDULE OBTAIN SCHEDULE FROM OWNER:
   a. UNOCCUPIED MODE: WHEN THE TIME OF DAY SCHEDULE IS INACTIVE, THE FAN COIL UNIT IS OFF. IF THE SPACE TEMPERATURE RISES ABOVE THE UNOCCUPIED COOLING SETPOINT (INITIALLY SET AT 26°C, ADJUSTABLE), THE FAN COIL UNIT IS STARTED AND OPERATES ON LOW SPEED. THE CHILLED WATER CONTROL VALVE IS MODULATE FULLY OPEN AND REMAINS OPEN UNTIL THE ZONE TEMPERATURE DROPS BELOW THE NIGHT COOLING SET POINT BY MORE THAN 1°C (ADJUSTABLE). AT THIS TIME, THE COOLING VALVE IS CLOSED AND THE FAN IS STOPPED. IF THE ZONE TEMPERATURE DROPS BELOW THE UNOCCUPIED HEATING SETPOINT OF 16°C (ADJUSTABLE), THE PERIMETER HEATING CONTROL VALVE IS FULLY MODULATED OPEN TO RAISE THE ZONE TEMPERATURE UNTIL THE ZONE TEMPERATURE IS AT LEAST 1°C ABOVE THE UNOCCUPIED HEATING SET POINT. THE FAN COIL FAN REMAINS OFF.
   b. OCCUPIED MODE: THE OCCUPIED MODE IS ACTIVE WHEN THE TIME OF DAY SCHEDULE IS ACTIVE AND THERE HAS BEEN MOTION DETECTED FROM THE CEILING MOUNTED SENSOR HUB WITHIN THE LEAST 30 MINUTES (ADJUSTABLE). DURING THE OCCUPIED MODE, THE FAN COIL UNIT IS ON AND HEATING AND COOLING VALVE ARE MODULATED TO MAINTAIN THE ZONE TEMPERATURE TO THE SETPOINT. IN WINTER, THE ZONE SETPOINT IS 22°C AND 24.0°C IN SUMMER (ADJUSTABLE). THE HEATING AND COOLING VALVES ARE SEQUENCE TO PREVENT HEATING AND COOLING AT THE SAME TIME.
   c. OCCUPIED STANDBY MODE: THE OCCUPIED STANDBY MODE IS ACTIVE WHEN THE TIME OF DAY SCHEDULE IS ACTIVE AND THERE HAS BEEN NO MOTION DETECTED FROM THE CEILING MOUNTED SENSOR HUB FOR AT LEAST 30 MINUTES (ADJUSTABLE). DURING OCCUPIED STANDBY, THE FAN COIL UNIT IS ON AND THE SPACE TEMPERATURE IS ALLOWED TO FLOAT BEYOND THE REGULVAR OCCUPIED ZONE SET POINT SETTING BY 2°C (ADJUSTABLE)
2. SUPPLY AIR DISCHARGE TEMPERATURE SENSOR FROM FAN COIL DISCHARGE IS MONITOR AND THE DATA IS TRENDED.
3. IF THE FAN STATUS DOES NOT MATCH THE FAN CONTROL, AN ALARM IS GENERATED AT THE BAS.
4. SENSOR HUB MONITORS THE RELATIVE HUMIDITY LEVELS AND THE DATA IS TRENDED.
5. CONDENSATE OVERFLOW SWITCH AND LEAK DETECTOR SENDS ALARMS TO BMS WHEN WATER IS DETECTED. THE ASSOCIATED FAN COIL UNIT IS STOPPED AND THE CONTROLS VALVES ARE FULLY CLOSED WHEN SENSORS ARE ACTIVATED.
6. SENSOR HUB MONITORS OCCUPANCY STATUS OF THE ZONE AND THE DATA IS TRENDED.

THERMOSTAT MANUAL CONTROL OPERATION ("ON" & "OFF" BUTTONS):

1. "ON" BUTTON: PRESS ONCE, ACTIVATES LIGHTING & FAN COIL UNIT. FAN COIL UNIT WILL OPERATE IN OCCUPIED STATE, AND WILL CONDITION SPACE AT OCCUPIED SPACE TEMPERATURE SET FOR 1 HOUR WITHIN THE CORRESPONDING ZONE.
2. "ON" BUTTON: PRESS AGAIN WITHIN THE 1 HOUR TIME FRAME, RESETS THE 1 HOUR COUNTDOWN FOR THE CORRESPONDING ZONE.
3. "OFF" BUTTON: PRESS ONCE, REVERTS FAN COIL UNIT BACK TO UNOCCUPIED STATE MODE AND MAINTAIN THE UNOCCUPIED SPACE TEMPERATURE SET. TURNS LIGHTING OFF AFTER 30 SECONDS.

3 / M-103 FAN COIL UNITS WITH COOLING/ HEATING, AND PERIMETER HEATING (WHERE APPLICABLE)
SCALE: N.T.S.



SEQUENCE OF OPERATION:

1. THE FAN COILS OPERATE BY MODULATING THE HEATING OR COOLING 2 WAY CONTROL VALVES TO MAINTAIN THE ZONE SET POINT. THE ZONE SETPOINT IS BASED ON THE FOLLOWING 3 CONDITIONS WHICH ARE BASED ON THE OCCUPIED/UNOCCUPIED TIME OF DAY SCHEDULE OBTAIN SCHEDULE FROM OWNER:
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   c. OCCUPIED STANDBY MODE: THE OCCUPIED STANDBY MODE IS ACTIVE WHEN THE TIME OF DAY SCHEDULE IS ACTIVE AND THERE HAS BEEN NO MOTION DETECTED FROM THE CEILING MOUNTED SENSOR HUB FOR AT LEAST 30 MINUTES (ADJUSTABLE). DURING OCCUPIED STANDBY, THE FAN COIL UNIT IS ON AND THE SPACE TEMPERATURE IS ALLOWED TO FLOAT BEYOND THE REGULVAR OCCUPIED ZONE SET POINT SETTING BY 2°C (ADJUSTABLE)
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3. SUPPLY AIR DISCHARGE TEMPERATURE SENSOR FROM FAN COIL DISCHARGE IS MONITOR AND THE DATA IS TRENDED.
4. IF THE FAN STATUS DOES NOT MATCH THE FAN CONTROL, AN ALARM IS GENERATED AT THE BAS.
5. SENSOR HUB MONITORS THE RELATIVE HUMIDITY LEVELS AND THE DATA IS TRENDED.
6. CONDENSATE OVERFLOW SWITCH AND LEAK DETECTOR SENDS ALARMS TO BMS WHEN WATER IS DETECTED. THE ASSOCIATED FAN COIL UNIT IS STOPPED AND THE CONTROLS VALVES ARE FULLY CLOSED WHEN SENSORS ARE ACTIVATED.
7. SENSOR HUB MONITORS OCCUPANCY STATUS OF THE ZONE AND THE DATA IS TRENDED.

THERMOSTAT MANUAL CONTROL OPERATION ("ON" & "OFF" BUTTONS):

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1 / M-103 FAN COIL UNITS WITH COOLING/ HEATING, CO2 SENSOR AND PERIMETER HEATING (WHERE APPLICABLE)
SCALE: N.T.S.

SEQUENCE OF OPERATION:

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4 / M-103 FAN COIL UNITS WITH COOLING/ HEATING (INTERIOR ZONES)
SCALE: N.T.S.

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2 / M-103 FAN COIL UNITS WITH COOLING/ HEATING & CO2 SENSOR (INTERIOR ZONES)
SCALE: N.T.S.

SUBMISSION	DATE	DESCRIPTION
6	2024-09-18	ISSUED FOR CONSTRUCTION
5	2024-07-23	ISSUED AS PER ADDENDUM M-2
4	2024-07-15	ISSUED AS PER ADDENDUM M-1
3	2024-05-24	ISSUED FOR PERMIT/TENDER
2	2024-04-17	ISSUED FOR 90% PROGRESS REVIEW
1	2024-01-30	ISSUED FOR 60% PROGRESS REVIEW

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LICENSED PROFESSIONAL ENGINEER
G. G. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region
PROPERTY SERVICES

DEPARTMENT: BUILDING & FACILITIES
FLOOR: GROUND, 2ND, 3RD, 4TH
BASE DATE: 11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

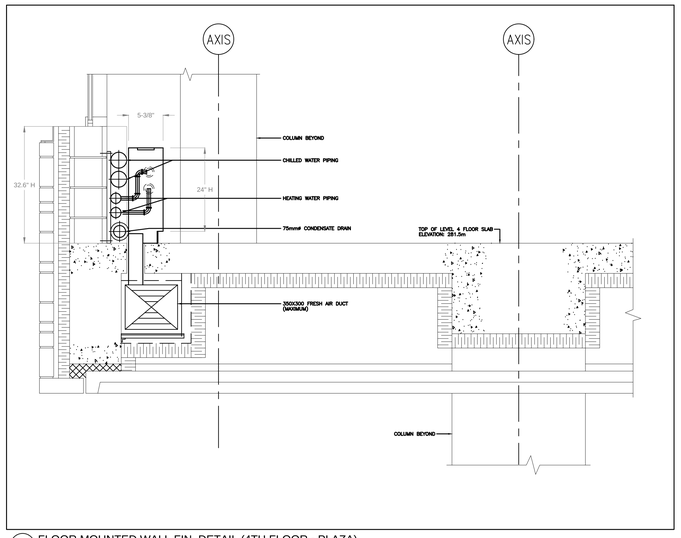
SCALE: NOT TO SCALE
DRAWN BY: K.J/G.P.Y.
SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

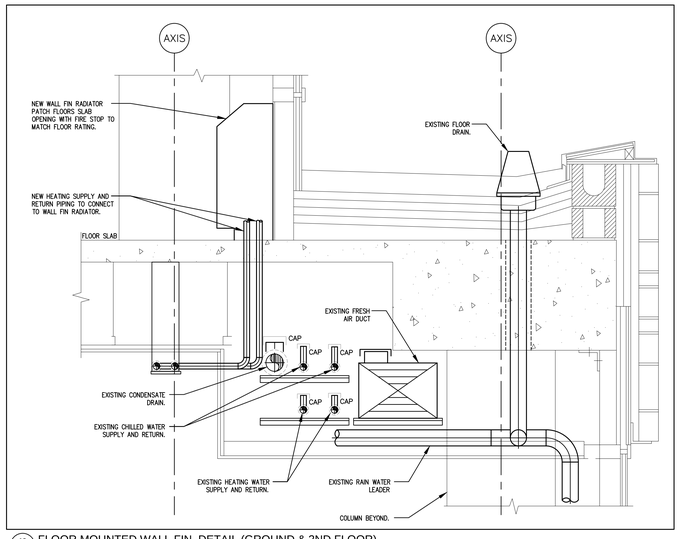
SCHEMATIC DIAGRAM I

SHEET NUMBER:

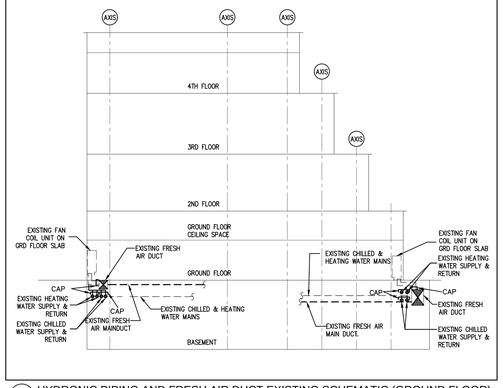
M-105



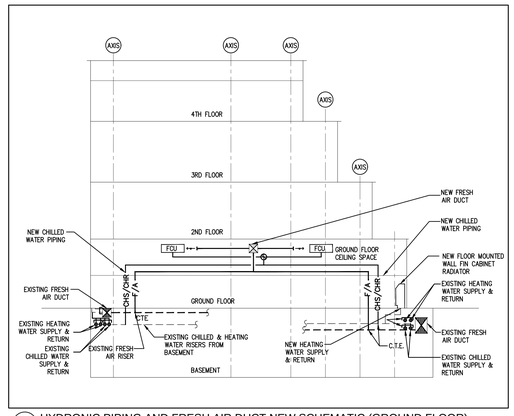
9 M-105 FLOOR MOUNTED WALL FIN DETAIL (4TH FLOOR - PLAZA)
SCALE: N.T.S.



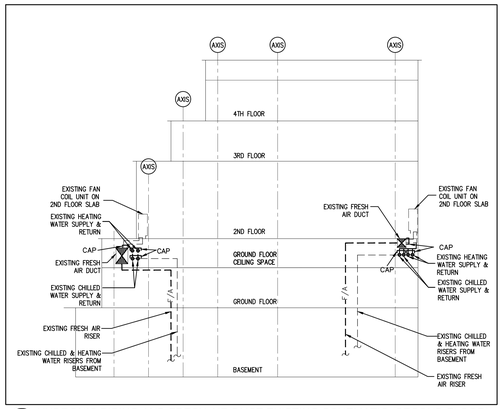
10 M-105 FLOOR MOUNTED WALL FIN DETAIL (GROUND & 2ND FLOOR)
SCALE: N.T.S.



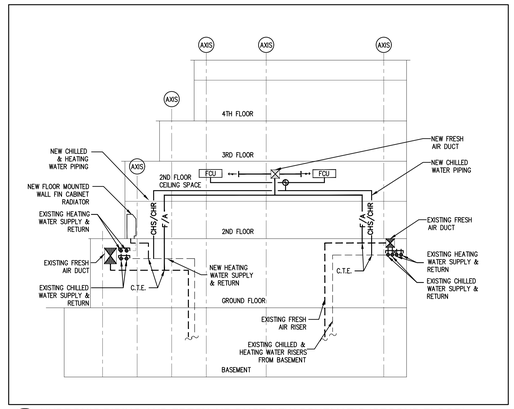
1 M-105 HYDRONIC PIPING AND FRESH AIR DUCT EXISTING SCHEMATIC (GROUND FLOOR)
SCALE: N.T.S.



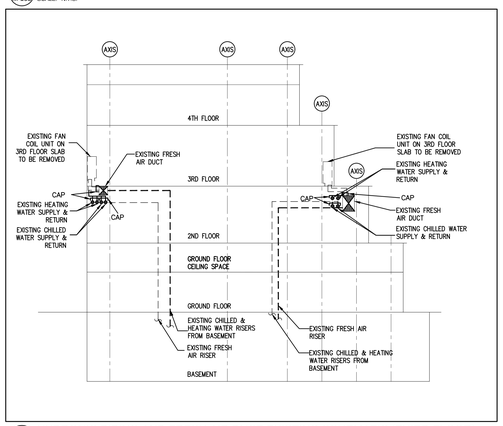
2 M-105 HYDRONIC PIPING AND FRESH AIR DUCT NEW SCHEMATIC (GROUND FLOOR)
SCALE: N.T.S.



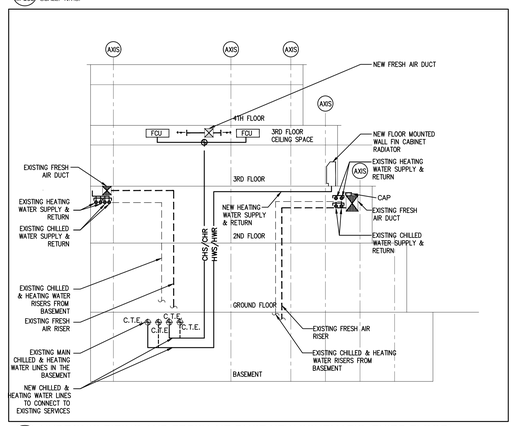
3 M-105 HYDRONIC PIPING AND FRESH AIR DUCT EXISTING SCHEMATIC (SECOND FLOOR)
SCALE: N.T.S.



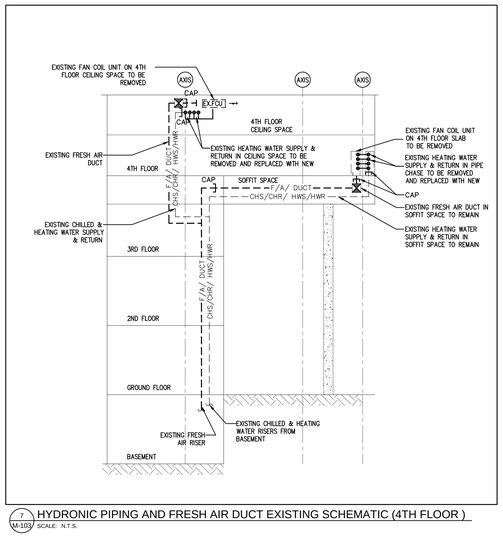
4 M-105 HYDRONIC PIPING AND FRESH AIR DUCT NEW SCHEMATIC (SECOND FLOOR)
SCALE: N.T.S.



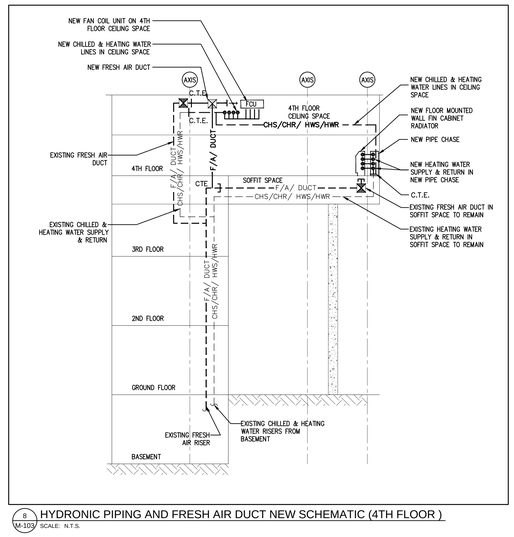
5 M-105 HYDRONIC PIPING AND FRESH AIR DUCT EXISTING SCHEMATIC (THIRD FLOOR)
SCALE: N.T.S.



6 M-105 HYDRONIC PIPING AND FRESH AIR DUCT NEW SCHEMATIC (THIRD FLOOR)
SCALE: N.T.S.



7 M-105 HYDRONIC PIPING AND FRESH AIR DUCT EXISTING SCHEMATIC (4TH FLOOR)
SCALE: N.T.S.



8 M-103 HYDRONIC PIPING AND FRESH AIR DUCT NEW SCHEMATIC (4TH FLOOR)
SCALE: N.T.S.

SUBMISSION	DATE	DESCRIPTION
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Fax: 866 853 3732
email: engineering
@gpyengineering.com

LICENSED PROFESSIONAL ENGINEER
GUY YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region
PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: NOT TO SCALE

DRAWN BY: K.J/G.P.Y.

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

SCHEMATIC DIAGRAM II

SHEET NUMBER:

M-106

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCES 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 THIS FLOOR PRIOR TO COMMENCEMENT OF ANY WORK.
10. CONTRACTOR SHALL REMOVE ALL PROTECTIONS USED ON THIS 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 MAIN CHILLED WATER SUPPLY & RETURN PIPING AND MAIN HEATING WATER SUPPLY & RETURN PIPING IN CEILING SPACE OF THIS FLOOR TO REMAIN. (TYPICAL)
4. RESERVED.
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. RESERVED.
8. RESERVED.
9. CUT BACK AND CAP EXISTING OUTDOOR AIR DUCTWORK IN CEILING SPACE OF THIS FLOOR SERVING THE DEMOLISHED FLOOR-MOUNTED FAN COIL UNITS ON FLOOR ABOVE. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENINGS AS REQUIRED. (TYPICAL)
10. RESERVED.
11. RESERVED.
12. RESERVED.
13. RESERVED.
14. RESERVED.

NOTES

ALL MECHANICAL WORKS INVOLVED ON THIS 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.

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LICENSED PROFESSIONAL ENGINEER
GUY YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region
PROPERTY SERVICES

DEPARTMENT: BUILDING & FACILITIES
FLOOR: GROUND, 2ND, 3RD, 4TH
BASE DATE: 11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100
DRAWN BY: K.J/G.P.Y.
SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL BASEMENT CEILING SPACE AT BLOCK 'D' & 'B' - 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 DISCREPANCES 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 TRADES. ALL OTHER EXISTING CONTROLS (CONTROLLERS, CONTROL VALVES, ETC) SHALL BE DEMOLISHED AND REMOVED FROM SITE.

DRAWING NOTES

1. EXISTING FLOOR-MOUNTED FAN COIL UNIT TO BE REMOVED AND DISPOSE OFF-SITE. REMOVE AND CAP OUTDOOR AIR SUPPLY DUCT BACK IN CEILING SPACE ON FLOOR BELOW. REMOVE AND CUT BACK HEATING SUPPLY/RETURN WATER PIPES AND CHILLED SUPPLY/RETURN WATER PIPES BACK TO CEILING SPACE ON FLOOR BELOW AND CAP. PROVIDE FIRE-STOPPING AND SEALED ALL FLOOR OPENING DUE TO REMOVAL OF DUCTWORK & PIPES AS REQUIRED. (TYPICAL)
2. REMOVE EXISTING TEMPERATURE SENSOR C/W ASSOCIATED CONTROL WIRING AND TURN OVER THE TEMPERATURE SENSOR TO THE OWNER. (TYPICAL)
3. REMOVE EXISTING DELTA BAS CONTROLLER IN CEILING SPACE OF THIS FLOOR CONNECTED TO EXISTING FAN COIL UNITS. REMOVE ALL ASSOCIATED CONTROL WIRING AND TURN OVER DELTA BAS CONTROLLER TO OWNER. (TYPICAL) MECHANICAL CONTRACTOR IDENTIFY AND PROTECT CONTROL WIRING SERVING OTHER FLOORS DURING DEMOLITION.
4. EXISTING AVERAGING TEMPERATURE SENSOR FOR THIS FLOOR C/W CONTROL WIRING TO REMAIN.
5. EXISTING RETURN AIR GRILLE TO BE REMOVED AND DISPOSE OFFSITE. (TYPICAL)
6. REMOVE EXISTING CEILING-HUNG FAN COIL UNIT C/W ASSOCIATED CONTROLS, HANGERS, ISOLATORS, DUCTWORK, CHILLED & HEATING WATER SUPPLY & RETURN LINES AND CONDENSATE LINE. CUT BACK AND CAP ASSOCIATED CHILLED & HEATING WATER SUPPLY & RETURN LINES AT MAIN CONNECTION. (TYPICAL OF 3)
7. REMOVE EXISTING EXHAUST GRILLES & CUTBACK ASSOCIATED DUCTWORK IN CEILING SPACE AND CAP AS SHOWN.
8. EXISTING EXHAUST GRILLES AND ASSOCIATED DUCTWORK TO REMAIN.
9. EXISTING MAIN CHILLED & HEATING WATER SUPPLY & RETURN LINES AND CONDENSATE LINE SERVING 2ND FLOOR FAN COIL UNITS TO REMAIN. (TYPICAL)
10. REMOVE EXISTING SUPPLY AIR DIFFUSER C/W ASSOCIATED FLEXIBLE & RIGID DUCT AND DISPOSE OFF-SITE. (TYPICAL)
11. EXISTING MAIN CHILLED & HEATING WATER RETURN LINES IN CEILING SPACE TO REMAIN. (TYPICAL)

NOTES

ALL MECHANICAL WORKS INVOLVED ON FLOOR BELOW 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 COORDINATOR WITH REGION'S PM PRIOR TO ANY WORK COMMENCING.

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.

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LICENSED PROFESSIONAL ENGINEER
GUS YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023
PROJECT:	

TENDER # RFTC-652-22

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100

DRAWN BY: K.J/G.P.Y.

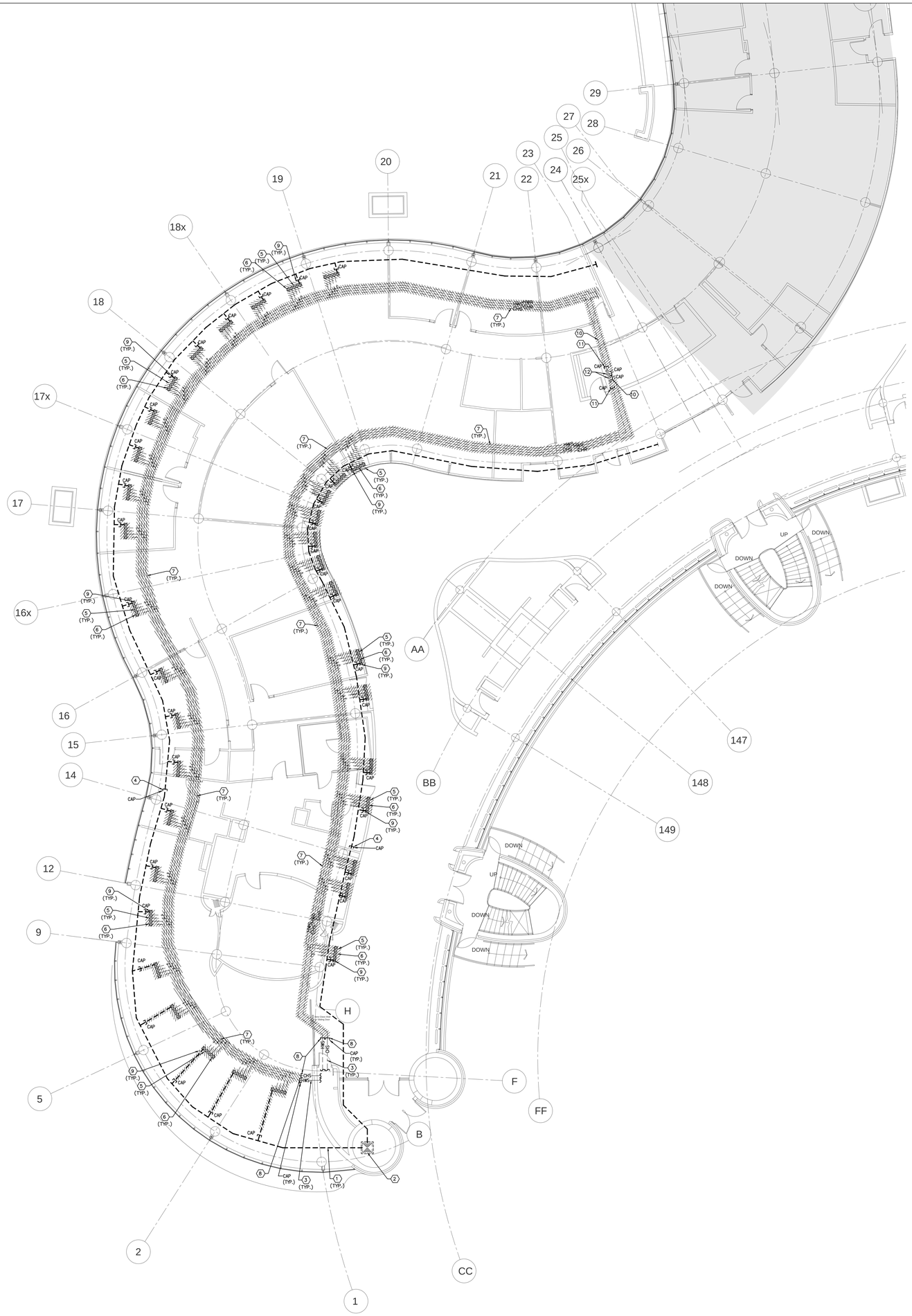
SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL GROUND FLOOR AT BLOCK 'D' - HVAC DEMOLITION PLAN

SHEET NUMBER:

M-201



GENERAL NOTES

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2. ANY DISCREPANCES 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 THIS FLOOR PRIOR TO COMMENCEMENT OF ANY WORK.
10. CONTRACTOR SHALL REMOVE ALL PROTECTIONS USED ON THIS 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 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 AS SHOWN. DUCTWORK TO BE MODIFIED TO SUIT INSTALLATION OF NEW DUCT RISER TO SERVE FLOOR ABOVE. CONTRACTOR TO CHECK/VERIFY EXACT LOCATION OF DUCTWORK ON SITE.
5. REMOVE EXISTING CHILLED WATER SUPPLY AND RETURN BRANCH PIPING IN CEILING SPACE OF THIS FLOOR SERVING THE DEMOLISHED FLOOR-MOUNTED FAN COIL UNITS ON FLOOR ABOVE. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENINGS AS REQUIRED. (TYPICAL)
6. REMOVE EXISTING HEATING WATER SUPPLY AND RETURN BRANCH PIPING IN CEILING SPACE OF THIS FLOOR SERVING THE DEMOLISHED FLOOR-MOUNTED FAN COIL UNITS ON FLOOR ABOVE. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENINGS AS REQUIRED. (TYPICAL)
7. REMOVE EXISTING MAIN CHILLED WATER SUPPLY & RETURN PIPING AND MAIN HEATING WATER SUPPLY & RETURN PIPING IN CEILING SPACE SERVING DEMOLISHED FAN COIL UNITS ON FLOOR ABOVE. REMOVE ASSOCIATED PIPE BRANCHES, VALVES, INSULATION, HANGERS & SUPPORTS. (TYPICAL)
8. CUT BACK AND CAP EXISTING MAIN CHILLED WATER SUPPLY AND HEATING WATER SUPPLY PIPING IN CEILING SPACE OF THIS FLOOR AS SHOWN. CONTRACTOR TO CHECK/VERIFY EXACT LOCATION OF PIPE DISCONNECTION ON SITE. REMOVE ALL PIPING DOWNSTREAM OF THE CONNECTIONS AS SHOWN.
9. REMOVE EXISTING OUTDOOR AIR SUPPLY BRANCH DUCT IN CEILING SPACE OF THIS FLOOR SERVING THE DEMOLISHED FLOOR-MOUNTED FAN COIL UNITS ON FLOOR ABOVE. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENINGS AS REQUIRED. (TYPICAL)
10. DISCONNECT AND CAP EXISTING HEATING WATER RETURN PIPING AS SHOWN.
11. DISCONNECT AND CAP EXISTING CHILLED WATER RETURN PIPING AS SHOWN.
12. EXISTING CHILLED WATER RETURN & HEATING WATER RETURN PIPE RISERS TO REMAIN. (TYPICAL)

NOTES

ALL MECHANICAL WORKS INVOLVED ON THIS 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.

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LICENSED PROFESSIONAL ENGINEER
G.G. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100

DRAWN BY: K.J/G.P.Y.

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL GROUND FLOOR CEILING SPACE AT BLOCK 'A' - 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 DISCREPANCES 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 TRADES. ALL OTHER EXISTING CONTROLS (CONTROLLERS, CONTROL VALVES, ETC) SHALL BE DEMOLISHED AND REMOVED FROM SITE.

DRAWING NOTES

1. EXISTING FLOOR-MOUNTED FAN COIL UNIT TO BE REMOVED AND DISPOSE OFF-SITE. REMOVE AND CAP OUTDOOR AIR SUPPLY DUCT BACK IN CEILING SPACE ON FLOOR BELOW. REMOVE AND CUT BACK HEATING SUPPLY/RETURN WATER PIPES AND CHILLED SUPPLY/RETURN WATER PIPES BACK TO CEILING SPACE ON FLOOR BELOW AND CAP. PROVIDE FIRE-STOPPING AND SEALED ALL FLOOR OPENING DUE TO REMOVAL OF DUCTWORK & PIPES AS REQUIRED. (TYPICAL)
2. REMOVE EXISTING TEMPERATURE SENSOR C/W ASSOCIATED CONTROL WIRING AND TURN OVER THE TEMPERATURE SENSOR TO THE OWNER. (TYPICAL)
3. REMOVE EXISTING DELTA BAS CONTROLLER IN CEILING SPACE OF THIS FLOOR CONNECTED TO EXISTING FAN COIL UNITS. REMOVE ALL ASSOCIATED CONTROL WIRING AND TURN OVER DELTA BAS CONTROLLER TO OWNER. (TYPICAL) MECHANICAL CONTRACTOR IDENTIFY AND PROTECT CONTROL WIRING SERVING OTHER FLOORS DURING DEMOLITION.
4. EXISTING AVERAGING TEMPERATURE SENSOR FOR THIS FLOOR C/W CONTROL WIRING TO REMAIN.
5. EXISTING RETURN AIR GRILLE TO BE REMOVED AND DISPOSE OFFSITE. (TYPICAL)
6. EXISTING FRESH AIR DUCTWORK IN CEILING SPACE SERVING THIRD FLOOR FAN COIL UNITS TO REMAIN.
7. REMOVE EXISTING EXHAUST GRILLES & CUTBACK ASSOCIATED DUCTWORK IN CEILING SPACE AND CAP AS SHOWN.
8. EXISTING HEATING WATER SUPPLY & RETURN PIPING SERVING WALL FINNED TUBE RADIATORS ON THE THIRD FLOOR TO REMAIN. (TYPICAL)
9. REMOVE ALL ABANDONED CHILLED WATER SUPPLY/RETURN AND HEATING WATER SUPPLY/RETURN PIPING IN CEILING SPACE AND DISPOSE OFF-SITE. (TYPICAL)
10. 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)
11. REMOVE EXISTING CHILLED WATER SUPPLY AND RETURN BRANCH PIPING IN CEILING SPACE OF THIS FLOOR SERVING THE DEMOLISHED FLOOR-MOUNTED FAN COIL UNITS ON FLOOR ABOVE. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENINGS AS REQUIRED. (TYPICAL)
12. EXISTING OUTDOOR SUPPLY AIR DUCT IN CEILING SPACE TO REMAIN.
13. EXISTING CHILLED WATER MAIN LINES IN CEILING SPACE TO REMAIN. (TYPICAL)
14. EXISTING CONDENSATE DRAIN LINE IN CEILING SPACE TO REMAIN. (TYPICAL)
15. CUT BACK OUTDOOR SUPPLY AIR DUCT BRANCH IN CEILING SPACE AND CAP AT MAIN AS SHOWN.
16. EXISTING WALL FINNED TUBE RADIATORS TO REMAIN. EXISTING CONTROL VALVE TO BE DISCONNECTED FROM EXISTING FCU CONTROLLER.

NOTES

ALL MECHANICAL WORKS INVOLVED ON FLOOR BELOW 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 COORDINATOR WITH REGION'S PM PRIOR TO ANY WORK COMMENCING.

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.

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LICENSED PROFESSIONAL ENGINEER
G. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region
PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023
PROJECT:	

TENDER # RFTC-652-22

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

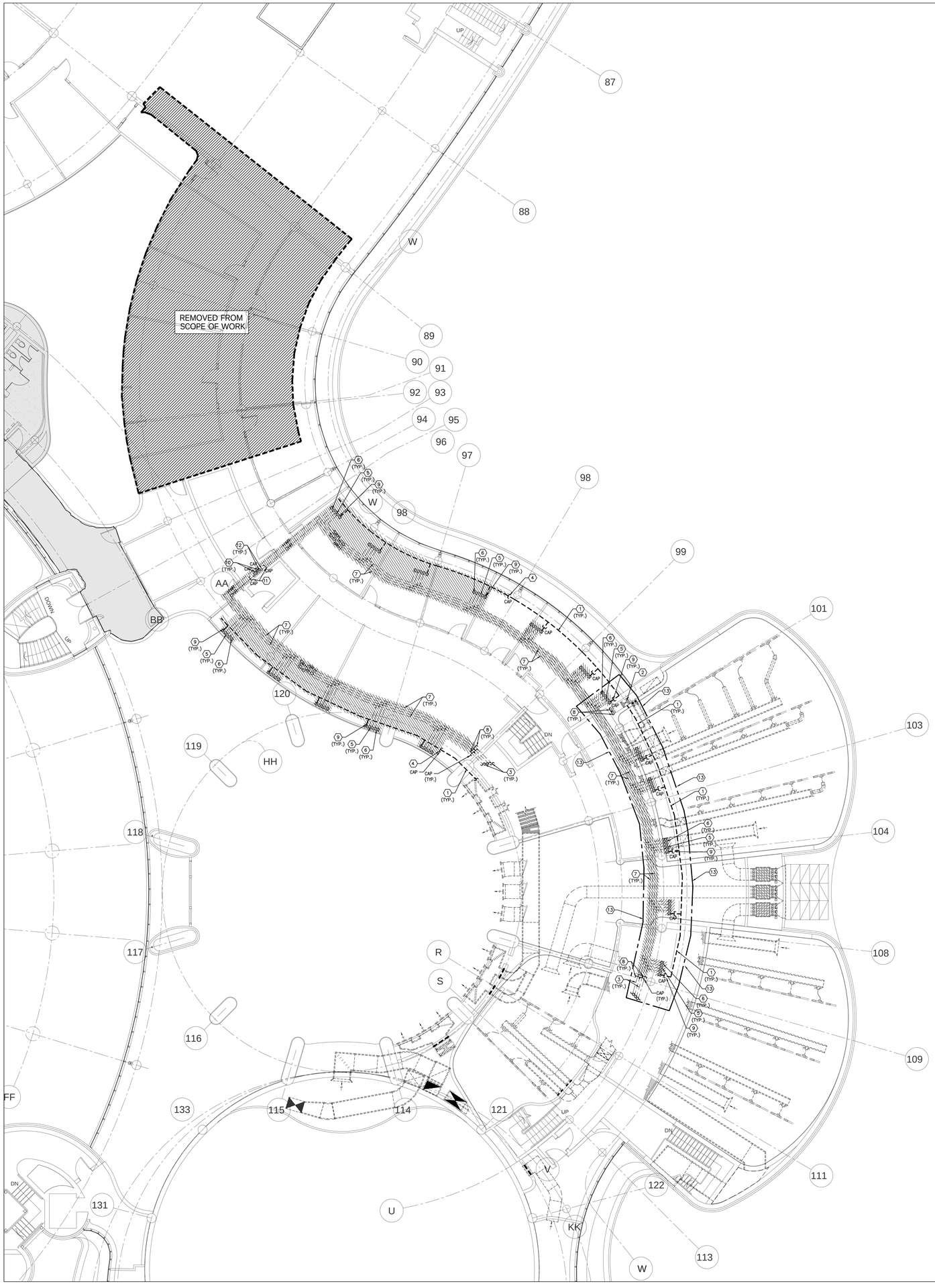
SCALE:	1:100
DRAWN BY:	K.J/G.P.Y.
SUBMITTED TO:	MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL SECOND FLOOR AT BLOCK 'A' - HVAC DEMOLITION PLAN

SHEET NUMBER:

M-203



GENERAL NOTES

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2. ANY DISCREPANCES 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.
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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 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 AS SHOWN. DUCTWORK TO BE MODIFIED TO SUIT INSTALLATION OF NEW DUCT RISER TO SERVE FLOOR ABOVE. CONTRACTOR TO CHECK/VERIFY EXACT LOCATION OF DUCTWORK ON SITE.
5. REMOVE EXISTING CHILLED WATER SUPPLY AND RETURN BRANCH PIPING IN CEILING SPACE OF THIS FLOOR SERVING THE DEMOLISHED FLOOR-MOUNTED FAN COIL UNITS ON FLOOR ABOVE. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENINGS AS REQUIRED. (TYPICAL)
6. REMOVE EXISTING HEATING WATER SUPPLY AND RETURN BRANCH PIPING IN CEILING SPACE OF THIS FLOOR SERVING THE DEMOLISHED FLOOR-MOUNTED FAN COIL UNITS ON FLOOR ABOVE. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENINGS AS REQUIRED. (TYPICAL)
7. REMOVE EXISTING MAIN CHILLED WATER SUPPLY & RETURN PIPING AND MAIN HEATING WATER SUPPLY & RETURN PIPING IN CEILING SPACE SERVING DEMOLISHED FAN COIL UNITS ON FLOOR ABOVE. REMOVE ASSOCIATED PIPE BRANCHES, VALVES, INSULATION, HANGERS & SUPPORTS. (TYPICAL)
8. CUT BACK AND CAP EXISTING MAIN CHILLED WATER SUPPLY/RETURN AND HEATING WATER SUPPLY / RETURN PIPING IN CEILING SPACE OF THIS FLOOR AS SHOWN. CONTRACTOR TO CHECK/VERIFY EXACT LOCATION OF PIPE DISCONNECTION ON SITE. REMOVE ALL PIPING DOWNSTREAM OF THE CONNECTION AS SHOWN.
9. REMOVE EXISTING OUTDOOR AIR SUPPLY BRANCH DUCT IN CEILING SPACE OF THIS FLOOR SERVING THE DEMOLISHED FLOOR-MOUNTED FAN COIL UNITS ON FLOOR ABOVE. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENINGS AS REQUIRED. (TYPICAL)
10. DISCONNECT AND CAP EXISTING HEATING WATER RETURN PIPING AS SHOWN.
11. DISCONNECT AND CAP EXISTING CHILLED WATER RETURN PIPING AS SHOWN.
12. EXISTING CHILLED WATER RETURN & HEATING WATER PIPE RISERS TO REMAIN. (TYPICAL)
13. ALL WORK INVOLVED WITHIN THIS AREA WILL BE AT HIGH LEVEL. CONTRACTOR TO PROVIDE ALLOWANCE FOR PROVIDING NECESSARY SCAFFOLDING AND SCISSOR LIFT TO EXECUTE DEMOLITION/ NEW WORK AS SHOWN. ALLOW FOR CUTTING/ PATCHING OF EXISTING DRYWALL CEILING TO SUIT DEMOLITION/ NEW WORK.

NOTES

ALL MECHANICAL WORKS INVOLVED ON THIS 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.

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3	2024-05-24	ISSUED FOR PERMIT/TENDER
2	2024-04-17	ISSUED FOR 90% PROGRESS REVIEW
1	2024-01-30	ISSUED FOR 60% PROGRESS REVIEW

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LICENSED PROFESSIONAL ENGINEER
G.P. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region
PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100

DRAWN BY: K.J/G.P.Y.

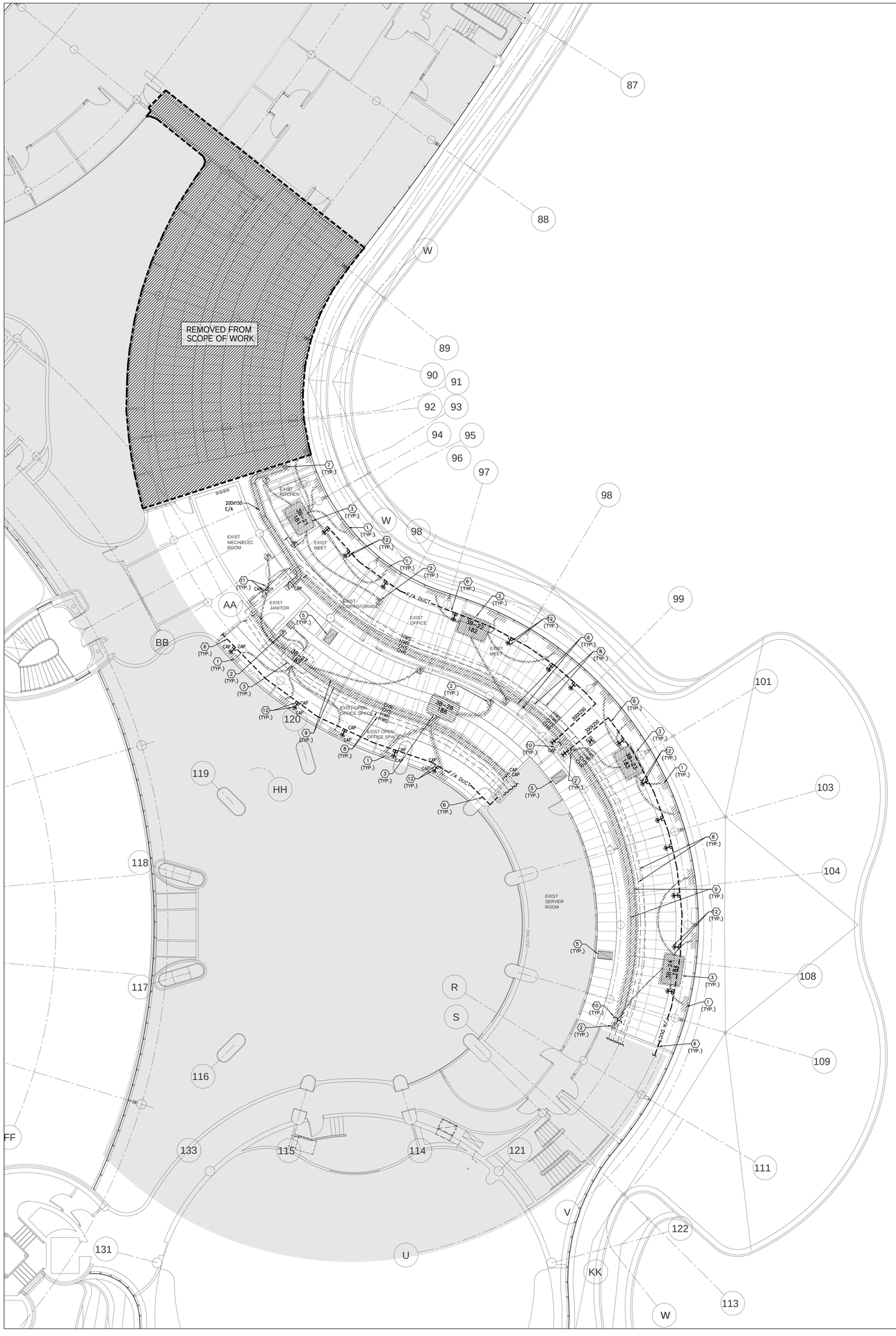
SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL SECOND FLOOR CEILING SPACE AT BLOCK 'B' & 'C' - MECHANICAL DEMOLITION PLAN

SHEET NUMBER:

M-204



GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCES 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 TRADES. ALL OTHER EXISTING CONTROLS (CONTROLLERS, CONTROL VALVES, ETC) SHALL BE DEMOLISHED AND REMOVED FROM SITE.

DRAWING NOTES

1. EXISTING FLOOR-MOUNTED FAN COIL UNIT TO BE REMOVED AND DISPOSE OFF-SITE. REMOVE AND CAP OUTDOOR AIR SUPPLY DUCT BACK IN CEILING SPACE ON FLOOR BELOW. REMOVE AND CUT BACK HEATING SUPPLY/RETURN WATER PIPES AND CHILLED SUPPLY/RETURN WATER PIPES BACK TO CEILING SPACE ON FLOOR BELOW AND CAP. PROVIDE FIRE-STOPPING AND SEALED ALL FLOOR OPENING DUE TO REMOVAL OF DUCTWORK & PIPES AS REQUIRED. (TYPICAL)
2. REMOVE EXISTING TEMPERATURE SENSOR C/W ASSOCIATED CONTROL WIRING AND TURN OVER THE TEMPERATURE SENSOR TO THE OWNER. (TYPICAL)
3. REMOVE EXISTING DELTA BAS CONTROLLER IN CEILING SPACE OF THIS FLOOR CONNECTED TO EXISTING FAN COIL UNITS. REMOVE ALL ASSOCIATED CONTROL WIRING AND TURN OVER DELTA BAS CONTROLLER TO OWNER. (TYPICAL) MECHANICAL CONTRACTOR IDENTIFY AND PROTECT CONTROL WIRING SERVING OTHER FLOORS DURING DEMOLITION.
4. EXISTING AVERAGING TEMPERATURE SENSOR FOR THIS FLOOR C/W CONTROL WIRING TO REMAIN.
5. EXISTING RETURN AIR GRILLE TO BE REMOVED AND DISPOSE OFFSITE. (TYPICAL)
6. EXISTING FRESH AIR DUCTWORK IN CEILING SPACE SERVING FOURTH FLOOR FAN COIL UNITS TO REMAIN.
7. REMOVE EXISTING EXHAUST GRILLES & CUTBACK ASSOCIATED DUCTWORK IN CEILING SPACE AND CAP AS SHOWN.
8. EXISTING HEATING WATER SUPPLY & RETURN PIPING SERVING WALL FINNED TUBE RADIATORS ON THE FOURTH FLOOR TO REMAIN. (TYPICAL)
9. REMOVE ALL ABANDONED CHILLED WATER SUPPLY AND RETURN PIPING IN CEILING SPACE AND DISPOSE OFF-SITE. (TYPICAL)
10. CUTBACK AND CAP EXISTING MAIN CHILLED WATER SUPPLY AND RETURN PIPING IN CEILING SPACE OF THIS FLOOR AS SHOWN. CONTRACTOR TO CHECK/VERIFY EXACT LOCATION OF PIPE DISCONNECTION ON SITE. REMOVE ALL PIPING DOWNSTREAM OF THE CONNECTION AS SHOWN. (TYPICAL)
11. DISCONNECT AND CAP EXISTING CHILLED WATER RETURN PIPING AS SHOWN.
12. REMOVE EXISTING OUTDOOR AIR SUPPLY BRANCH DUCT IN CEILING SPACE OF THIS FLOOR. CUTBACK BRANCH DUCT AND CAP AT MAIN DUCT CONNECTION. CUTBACK BRANCH DUCT AND CAP AT UNDER SIDE OF CONCRETE SLAB OF FOURTH FLOOR. (TYPICAL)

NOTES

ALL MECHANICAL WORKS INVOLVED ON FLOOR BELOW 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 COORDINATOR WITH REGION'S PM PRIOR TO ANY WORK COMMENCING.

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.

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LICENSED PROFESSIONAL ENGINEER
GUY YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100

DRAWN BY: K.J/G.P.Y.

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL THIRD FLOOR AT BLOCK 'B' & 'C' - HVAC DEMOLITION PLAN

SHEET NUMBER:

M-205

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 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 AS SHOWN. REMOVE PORTION OF DUCTWORK AS SHOWN. CONTRACTOR TO CHECK/VERIFY EXACT LOCATION OF DUCTWORK ON SITE. (TYPICAL)
5. REMOVE EXISTING CHILLED WATER SUPPLY AND RETURN BRANCH PIPING IN CEILING SPACE OF THIS FLOOR SERVING THE DEMOLISHED FLOOR-MOUNTED FAN COIL UNIT ON FLOOR ABOVE. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENINGS AS REQUIRED.
6. REMOVE EXISTING HEATING WATER SUPPLY AND RETURN BRANCH PIPING IN CEILING SPACE OF THIS FLOOR SERVING THE DEMOLISHED FLOOR-MOUNTED FAN COIL UNITS ON FLOOR ABOVE. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENINGS AS REQUIRED.
7. EXISTING CHILLED WATER SUPPLY AND HEATING WATER SUPPLY PIPES RUNNING INSIDE SOFFIT SPACE SERVING DEMOLISHED FAN COIL UNITS AT THE PERIMETER TO REMAIN AND TO BE CAPPED ON FLOOR ABOVE FOR NEW CONNECTION. (TYPICAL)
8. EXISTING CHILLED WATER RETURN AND HEATING WATER RETURN PIPES RUNNING INSIDE SOFFIT SPACE SERVING DEMOLISHED FAN COIL UNITS AT THE PERIMETER TO REMAIN AND TO BE CAPPED ON FLOOR ABOVE FOR NEW CONNECTION. (TYPICAL)
9. REMOVE EXISTING OUTDOOR AIR SUPPLY BRANCH DUCT IN CEILING SPACE OF THIS FLOOR SERVING THE DEMOLISHED FLOOR-MOUNTED FAN COIL UNITS ON FLOOR ABOVE. PROVIDE FIRE-STOPPING AND SEALED OFF ALL FLOOR OPENINGS AS REQUIRED. (TYPICAL)
10. EXISTING FRESH AIR DUCT BRANCH RUNNING INSIDE SOFFIT SPACE SERVING DEMOLISHED FAN COIL UNITS ON THE FOURTH FLOOR TO BE CUT BACK AND CAPPED ON FLOOR ABOVE. (TYPICAL)
11. EXISTING CONDENSATE DRAIN LINE RUNNING INSIDE SOFFIT SPACE SERVING DEMOLISHED FAN COIL UNITS AT THE PERIMETER TO REMAIN AND TO BE CAPPED ON FLOOR ABOVE. (TYPICAL)

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 THIS FLOOR PRIOR TO COMMENCEMENT OF ANY WORK.
10. CONTRACTOR SHALL REMOVE ALL PROTECTIONS USED ON THIS 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.

NOTES

ALL MECHANICAL WORKS INVOLVED ON THIS 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.

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LICENSED PROFESSIONAL ENGINEER
G. G. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT: BUILDING & FACILITIES

FLOOR: GROUND, 2ND, 3RD, 4TH

BASE DATE: 11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100

DRAWN BY: K.J/G.P.Y.

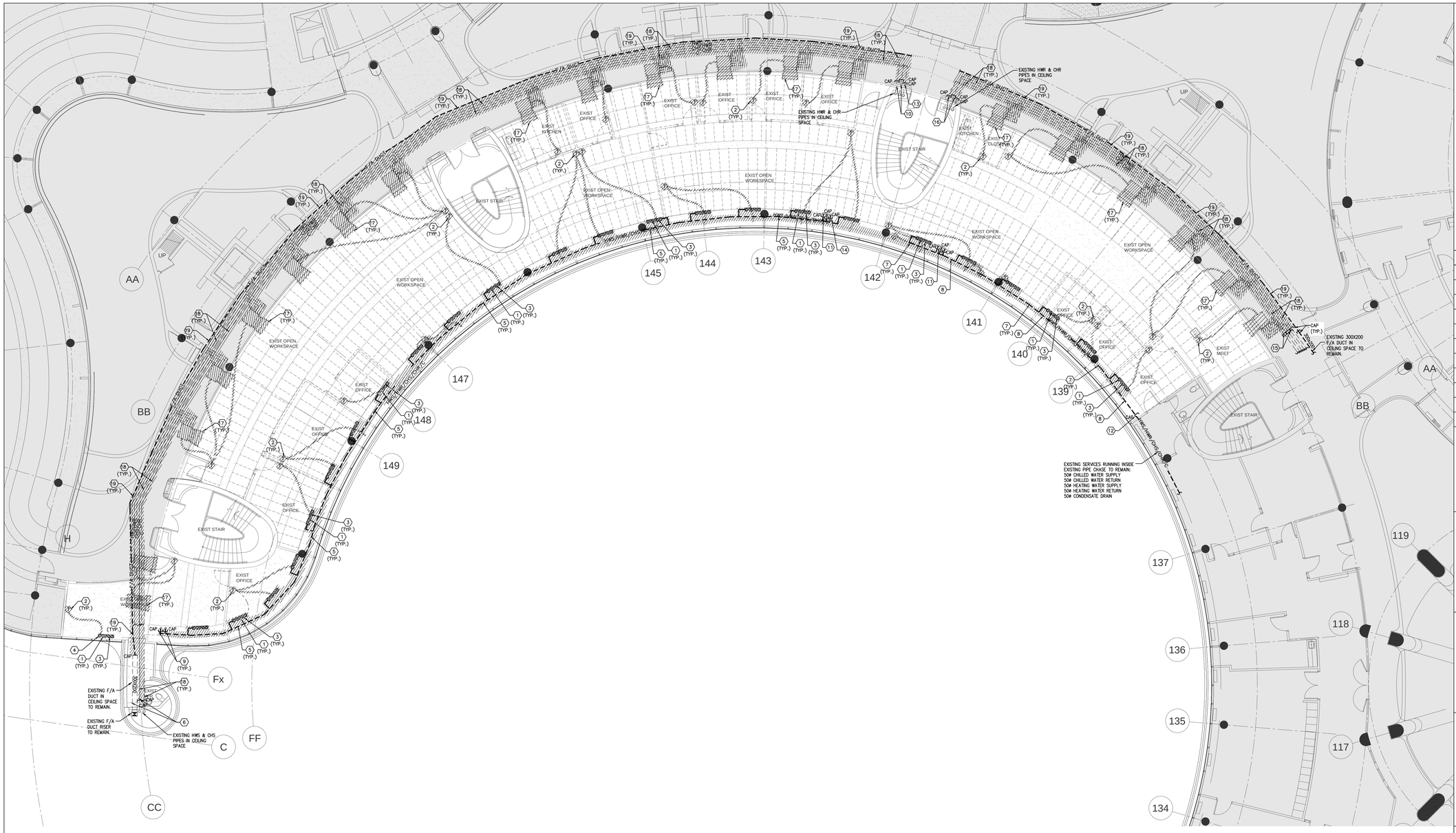
SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL THIRD FLOOR CEILING SPACE AT BLOCK 'A' & 'B' - MECHANICAL DEMOLITION PLAN

SHEET NUMBER:

M-206



DRAWING NOTES

1. EXISTING FLOOR-MOUNTED FAN COIL UNIT TO BE REMOVED AND DISPOSE OFF-SITE. REMOVE AND CUT BACK OUTDOOR AIR SUPPLY DUCT BRANCH BELOW FLOOR SLAB AND CAP. PATCH EXISTING FLOOR SLAB OPENING AND MAKE GOOD TO RECEIVE NEW FLOOR FINISH. REMOVE HEATING SUPPLY/RETURN WATER PIPES AND CHILLED SUPPLY/RETURN WATER PIPES.
2. REMOVE EXISTING TEMPERATURE SENSOR C/W ASSOCIATED CONTROL WIRING AND TURN OVER THE TEMPERATURE SENSOR TO THE OWNER. (TYPICAL)
3. REMOVE EXISTING DELTA BAS CONTROLLER IN CEILING SPACE OF THIS FLOOR CONNECTED TO EXISTING FAN COIL UNITS. REMOVE ALL ASSOCIATED CONTROL WIRING AND TURN OVER DELTA BAS CONTROLLER TO OWNER. (TYPICAL) MECHANICAL CONTRACTOR IDENTIFY AND PROTECT CONTROL WIRING SERVING OTHER FLOORS DURING DEMOLITION.
4. CUT BACK EXISTING HEATING SUPPLY/RETURN WATER PIPES AND CHILLED SUPPLY/RETURN WATER BRANCH PIPES SERVING DEMOLISHED FLOOR-MOUNTED FAN COIL UNIT BACK IN CEILING SPACE ON FLOOR BELOW AND CAP.
5. REMOVE EXISTING CHILLED WATER SUPPLY/RETURN, HEATING WATER SUPPLY/RETURN PIPES AND CONDENSATE DRAIN LINE SERVING DEMOLISHED FLOOR-MOUNTED FAN COIL UNITS INSIDE DEMOLISHED PIPE CHASE. (TYPICAL)
6. CUT BACK AND CAP EXISTING CHILLED WATER SUPPLY AND HEATING WATER SUPPLY PIPES SERVING DEMOLISHED CEILING-HUNG FAN COIL UNITS IN CEILING SPACE AT THIS APPROXIMATE LOCATION. (TYPICAL)
7. REMOVE EXISTING CHILLED WATER SUPPLY/RETURN & HEATING WATER SUPPLY/RETURN PIPES SERVING DEMOLISHED FLOOR-MOUNTED FAN COIL UNITS INSIDE DEMOLISHED PIPE CHASE. REFER TO DRAWING NO. M-404 FOR TEMPORARY WORK OCCURRING AT THIS AREA TO ENSURE EXISTING FLOOR-MOUNTED FAN COIL UNITS AT BLOCK 'C' (NOT IN CONTRACT) TO REMAIN OPERATIONAL DURING DEMOLITION. RE-ROUTING OF CHILLED WATER RETURN AND HEATING WATER RETURN PIPES SHALL BE DONE BEFORE DEMOLISHING THE EXISTING HYDRONIC LINES INSIDE PIPE CHASE. ALL SERVICE INTERRUPTIONS/ SHUTDOWNS/ FREEZING/ HOT TAPPING TO EXECUTE THE TEMPORARY WORK SHALL BE DONE DURING AFTER-HOURS (9P./ WEEKENDS, AND MUST BE COORDINATED WITH YORK REGION PM & OPERATIONS TEAM FOR THEIR APPROVAL. (TYPICAL)
8. EXISTING CONDENSATE DRAIN LINE INSIDE DEMOLISHED PIPE CHASE TO BE REPLACED WITH NEW PIPING INSIDE NEW PIPE CHASE. REFER TO DRAWING NO. M-404 FOR TEMPORARY WORK OCCURRING AT THIS AREA TO ENSURE EXISTING FLOOR-MOUNTED FAN COIL UNITS AT BLOCK 'C' (NOT IN CONTRACT REMAIN OPERATIONAL DURING DEMOLITION. REPLACEMENT OF EXISTING CONDENSATE DRAIN LINE SHALL BE DONE ONCE NEW HYDRONIC PIPING ARE INSTALLED AND BEFORE INSTALLATION OF NEW PIPE CHASE. DRAIN LINE SHALL BE OPERATIONAL DURING CONSTRUCTION. ALL SERVICE INTERRUPTIONS/ SHUTDOWNS/ FREEZING/ HOT TAPPING TO EXECUTE THE TEMPORARY WORK SHALL BE DONE DURING AFTER-HOURS (9P./ WEEKENDS, AND MUST BE COORDINATED WITH YORK REGION PM & OPERATIONS TEAM FOR THEIR APPROVAL.
9. CUT BACK AND CAP EXISTING CHILLED WATER SUPPLY AND HEATING WATER SUPPLY PIPES SERVING DEMOLISHED FLOOR-MOUNTED FAN COIL UNITS INSIDE DEMOLISHED PIPE CHASE AT THIS APPROXIMATE LOCATION. (TYPICAL)

DRAWING NOTES

10. CUT BACK AND CAP EXISTING CHILLED WATER RETURN AND HEATING WATER RETURN PIPES SERVING DEMOLISHED CEILING-HUNG FAN COIL UNITS IN CEILING SPACE AT THIS APPROXIMATE LOCATION. (TYPICAL)
11. CUT BACK AND CAP EXISTING CHILLED WATER RETURN AND HEATING WATER RETURN PIPES SERVING DEMOLISHED FLOOR-MOUNTED FAN COIL UNITS IN EXISTING PIPE CHASE AT THIS APPROXIMATE LOCATION. (TYPICAL)
12. CUT BACK AND CAP EXISTING CHILLED WATER SUPPLY/RETURN AND HEATING WATER SUPPLY/RETURN PIPES SERVING DEMOLISHED FLOOR-MOUNTED FAN COIL UNITS IN DEMOLISHED PIPE CHASE AT THIS APPROXIMATE LOCATION. REFER TO DRAWING NO. M-404 FOR TEMPORARY WORK OCCURRING AT THIS AREA TO ENSURE EXISTING FLOOR-MOUNTED FAN COIL UNITS AT BLOCK 'C' (NOT IN CONTRACT) TO REMAIN OPERATIONAL DURING DEMOLITION. (TYPICAL)
13. CUT BACK AND CAP EXISTING CONDENSATE LINE SERVING DEMOLISHED CEILING-HUNG FAN COIL UNITS IN CEILING SPACE AT THIS APPROXIMATE LOCATION. (TYPICAL)
14. CUT BACK AND CAP EXISTING CONDENSATE LINE SERVING DEMOLISHED FLOOR-MOUNTED FAN COIL UNITS IN EXISTING PIPE CHASE AT THIS APPROXIMATE LOCATION. (TYPICAL)
15. CUT BACK AND CAP EXISTING CHILLED WATER SUPPLY/ RETURN, HEATING WATER SUPPLY/ RETURN PIPES AND CONDENSATE DRAIN LINE SERVING DEMOLISHED CEILING-HUNG FAN COIL UNITS IN CEILING SPACE AT THIS APPROXIMATE LOCATION. REFER TO DRAWING NO. M-404 FOR TEMPORARY WORK OCCURRING AT THIS AREA TO ENSURE EXISTING CEILING-HUNG FAN COIL UNITS AT BLOCK 'C' (NOT IN CONTRACT) TO REMAIN OPERATIONAL DURING DEMOLITION. (TYPICAL)
16. CUT BACK AND CAP EXISTING CHILLED WATER RETURN, HEATING WATER RETURN PIPES AND CONDENSATE DRAIN LINE SERVING DEMOLISHED CEILING-HUNG FAN COIL UNITS IN CEILING SPACE AT THIS APPROXIMATE LOCATION. REFER TO DRAWING NO. M-404 FOR TEMPORARY WORK OCCURRING AT THIS AREA TO ENSURE EXISTING CEILING-HUNG FAN COIL UNITS AT BLOCK 'C' (NOT IN CONTRACT) TO REMAIN OPERATIONAL DURING DEMOLITION. (TYPICAL)
17. EXISTING CEILING HUNG FAN COIL UNIT C/W ASSOCIATED CONTROLS TO BE REMOVED AND DISPOSE OFF-SITE. REMOVE OUTDOOR AIR SUPPLY DUCT CONNECTION. REMOVE HEATING SUPPLY/RETURN WATER PIPES AND CHILLED SUPPLY/RETURN WATER PIPES.
18. REMOVE EXISTING CHILLED WATER SUPPLY/RETURN, HEATING WATER SUPPLY/RETURN PIPES AND CONDENSATE DRAIN LINE IN CEILING SPACE SERVING DEMOLISHED CEILING-HUNG FAN COIL UNITS. REMOVE ALL ASSOCIATED PIPE HANGERS/ SUPPORTS AND PIPE INSULATION. (TYPICAL)
19. REMOVE EXISTING OUTDOOR AIR DUCTWORK IN CEILING SPACE SERVING DEMOLISHED CEILING-HUNG FAN COIL UNITS. REMOVE ALL ASSOCIATED DUCT HANGERS AND SUPPORTS. (TYPICAL)

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 TRADES. ALL OTHER EXISTING CONTROLS (CONTROLLERS, CONTROL VALVES, ETC) SHALL BE DEMOLISHED AND REMOVED FROM SITE.

NOTES

ALL MECHANICAL WORKS INVOLVED ON FLOOR BELOW 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.

SUBMISSION	DATE	DESCRIPTION
6	2024-09-18	ISSUED FOR CONSTRUCTION
5	2024-07-23	ISSUED AS PER ADDENDUM M-2
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3	2024-05-24	ISSUED FOR PERMIT/TENDER
2	2024-04-17	ISSUED FOR 90% PROGRESS REVIEW
1	2024-01-30	ISSUED FOR 60% PROGRESS REVIEW

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LICENSED PROFESSIONAL ENGINEER
G.P. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region
PROPERTY SERVICES

DEPARTMENT: BUILDING & FACILITIES
FLOOR: GROUND, 2ND, 3RD, 4TH
BASE DATE: 11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100
DRAWN BY: K.J/G.P.Y.
SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL FOURTH FLOOR AT BLOCK 'A' & 'B' - HVAC DEMOLITION PLAN

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 DISCREPANCES 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 THIS FLOOR PRIOR TO COMMENCEMENT OF ANY WORK.
10. CONTRACTOR SHALL REMOVE ALL PROTECTIONS USED ON THIS 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

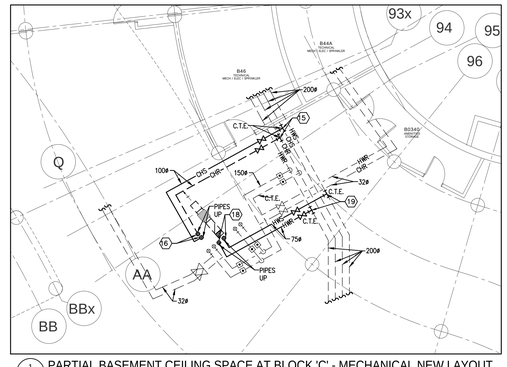
1. EXISTING OUTDOOR AIR SUPPLY DUCTWORK IN CEILING SPACE OF THIS FLOOR TO REMAIN. (TYPICAL)
2. EXISTING OUTDOOR AIR SUPPLY DUCT RISER TO REMAIN.
3. EXISTING MAIN CHILLED WATER SUPPLY & RETURN PIPING AND MAIN HEATING WATER SUPPLY & RETURN PIPING IN CEILING SPACE OF THIS FLOOR TO REMAIN. (TYPICAL)
4. CONNECT NEW OUTDOOR AIR SUPPLY DUCT TO EXISTING DUCTWORK AND MAKE GOOD INSULATION. PROVIDE BALANCING DAMPER & BALANCE AS INDICATED.
5. NEW OUTDOOR AIR SUPPLY DUCT UP TO FLOOR ABOVE, PROVIDE FIRE DAMPER AT FLOOR SLAB PENETRATION. PROVIDE AN ALLOWANCE FOR FLOOR SLAB CUTTING/DRILLING AS REQUIRED. FOR CONTINUATION REFER TO DRAWING NO. M-209 – GROUND FLOOR HVAC NEW LAYOUT.
6. CONNECT NEW 75ø CHILLED WATER SUPPLY PIPE C/W SHUT-OFF VALVES TO EXISTING 150ø SAME SERVICE PIPING AT THIS POINT AND MAKE GOOD INSULATION. PROVIDE AN ALLOWANCE TO CUT/ MODIFY AND REINSTATE EXISTING 1000x500 OUTDOOR AIR DUCT TO COMPLETE THE INSTALLATION & CONNECTION OF NEW CHILLED WATER SUPPLY TO THE MAIN LINE. PROVIDE FREEZING/ HOT TAPPING AS REQUIRED. CONNECTIONS TO THE EXISTING SYSTEM SHALL BE SCHEDULED AND COORDINATED WITH YORK REGION'S PM FOR APPROVAL. EXISTING CHILLED WATER LINE SYSTEM SHALL BE FULLY-OPERATIONAL DURING REGULAR BUSINESS HOURS.
7. RUN NEW 75ø CHILLED WATER SUPPLY PIPE UP TO FLOOR ABOVE. FOR CONTINUATION REFER TO DRAWING M-209 – GROUND FLOOR HVAC NEW LAYOUT.
8. NEW 75ø CHILLED WATER RETURN PIPE SERVING NEW FAN COIL UNITS FROM FLOOR ABOVE. EXTEND NEW PIPE AND CONNECT TO EXISTING MAIN 250ø CHILLED WATER PIPE C/W SHUT-OFF VALVES IN CEILING SPACE OF THIS FLOOR. EXACT CONNECTION TO BE CONFIRMED ON SITE. PROVIDE FREEZING/ HOT TAPPING AS REQUIRED. CONNECTIONS TO THE EXISTING SYSTEM SHALL BE SCHEDULED AND COORDINATED WITH YORK REGION'S PM FOR APPROVAL. EXISTING CHILLED WATER LINE SYSTEM SHALL BE FULLY-OPERATIONAL DURING REGULAR BUSINESS HOURS.
9. CONNECT NEW 50ø HEATING WATER SUPPLY PIPE SERVING NEW WALL FINNED RADIATORS ON FLOOR ABOVE TO EXISTING 50ø SERVICE AT THIS APPROXIMATE LOCATION. PROVIDE NEW SHUT-OFF VALVES. EXACT CONNECTION TO BE CONFIRMED ON SITE.
10. PROVIDE NEW 20ø HEATING WATER SUPPLY/RETURN PIPES. EXTEND NEW HEATING WATER SUPPLY/RETURN PIPES UP TO FLOOR ABOVE 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. CONNECT NEW 50ø HEATING WATER RETURN PIPE SERVING NEW WALL FINNED RADIATORS ON FLOOR ABOVE TO EXISTING 250ø MAIN HEATING WATER RETURN PIPE AT THIS APPROXIMATE LOCATION C/W SHUT-OFF VALVES. EXACT CONNECTION TO BE CONFIRMED ON SITE. PROVIDE FREEZING/ HOT TAPPING AS REQUIRED. CONNECTIONS TO THE EXISTING SYSTEM SHALL BE SCHEDULED AND COORDINATED WITH YORK REGION'S PM FOR APPROVAL. EXISTING HEATING WATER LINE SYSTEM SHALL BE FULLY-OPERATIONAL DURING REGULAR BUSINESS HOURS.
13. 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. VICTAULIC 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.
14. PRESSURE TEST ALL NEW PIPING FOR 24 HOURS WITH NO LOSS OF PRESSURE PRIOR TO INSULATING FITTINGS AND OPENING MAIN VALVES. (TYPICAL)
15. CONNECT NEW 100ø CHILLED WATER SUPPLY & RETURN PIPES TO EXISTING 200ø MAIN CHILLED WATER SUPPLY AND RETURN PIPING AT THIS APPROXIMATE LOCATION AND MAKE GOOD INSULATION. PROVIDE SHUT-OFF VALVES. PROVIDE FREEZING/ HOT TAPPING AS REQUIRED. CONNECTIONS TO THE EXISTING SYSTEM SHALL BE SCHEDULED AND COORDINATED WITH YORK REGION'S PM FOR APPROVAL. EXISTING CHILLED WATER LINE SYSTEM SHALL BE FULLY-OPERATIONAL DURING REGULAR BUSINESS HOURS.
16. NEW 100ø CHILLED WATER SUPPLY & RETURN PIPE FROM FLOOR ABOVE. PROVIDE APPROVED FIRESTOPPING AT FLOOR PENETRATION.
17. EXISTING OUTDOOR AIR SUPPLY DUCT TO REMAIN. PROVIDE NEW BALANCING DAMPER ON EXISTING DUCTWORK.
18. NEW 75ø HEATING WATER SUPPLY & RETURN PIPE FROM FLOOR ABOVE. PROVIDE APPROVED FIRESTOPPING AT FLOOR PENETRATION.
19. CONNECT NEW 75ø HEATING WATER SUPPLY & RETURN PIPES TO EXISTING 200ø MAIN HEATING WATER SUPPLY AND RETURN PIPING AT THIS APPROXIMATE LOCATION AND MAKE GOOD INSULATION. PROVIDE SHUT-OFF VALVES. PROVIDE FREEZING/ HOT TAPPING AS REQUIRED. CONNECTIONS TO THE EXISTING SYSTEM SHALL BE SCHEDULED AND COORDINATED WITH YORK REGION'S PM FOR APPROVAL. EXISTING HEATING WATER LINE SYSTEM SHALL BE FULLY-OPERATIONAL DURING REGULAR BUSINESS HOURS.

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE THIS 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

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



1 / M-208 PARTIAL BASEMENT CEILING SPACE AT BLOCK 'C' - MECHANICAL NEW LAYOUT
SCALE: 1: 100

SUBMISSION	DATE	DESCRIPTION
6	2024-09-18	ISSUED FOR CONSTRUCTION
5	2024-07-23	ISSUED AS PER ADDENDUM M-2
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LICENSED PROFESSIONAL ENGINEER
GUS YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region
PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023
PROJECT:	

TENDER # RFTC-652-22

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100

DRAWN BY: K.J/G.P.Y.

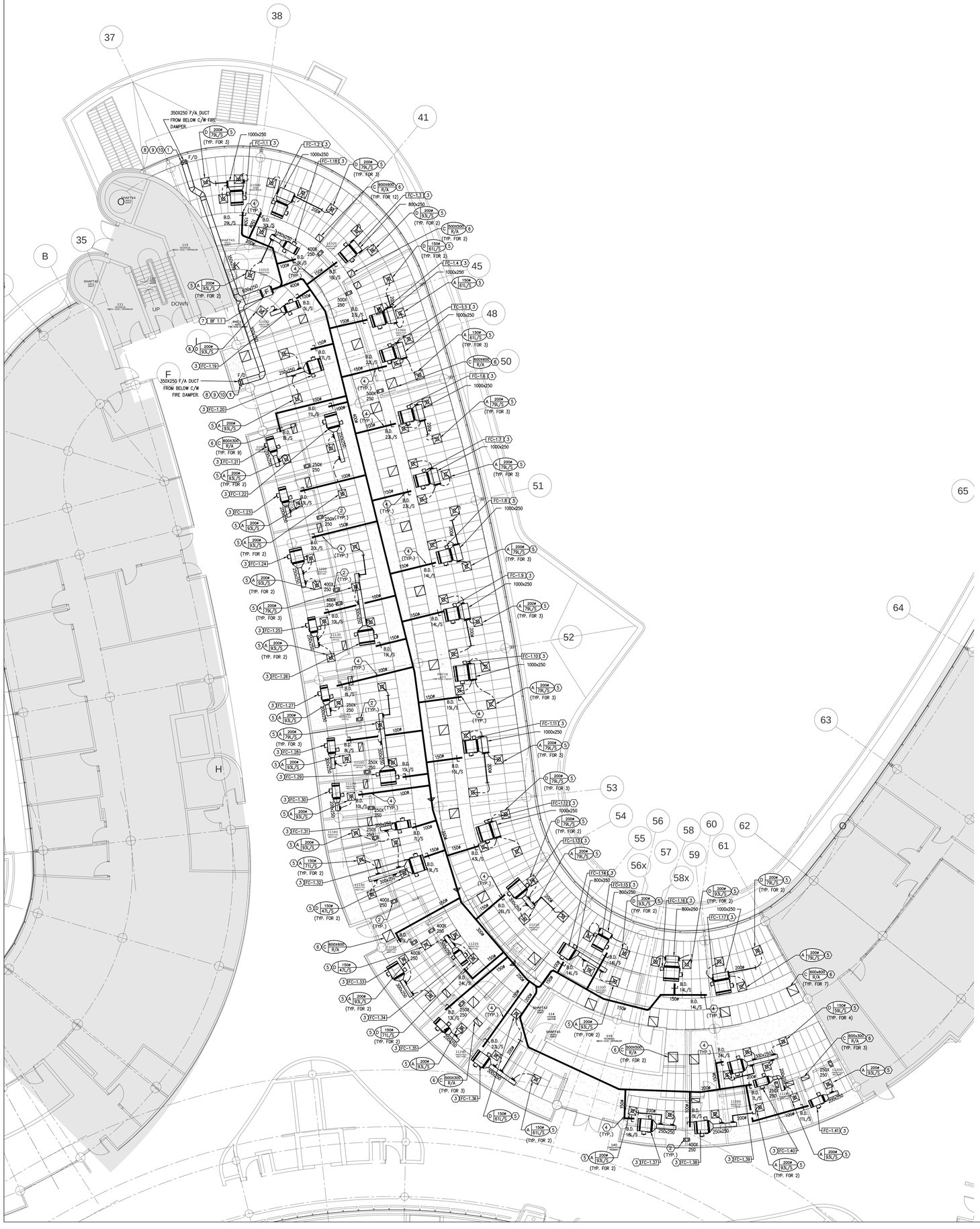
SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL BASEMENT CEILING SPACE AT BLOCK 'D', 'B' & 'C' - MECHANICAL NEW LAYOUT

SHEET NUMBER:

M-208



GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCES 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 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)
10. PROVIDE TEMPORARY COVER ON ALL F/A DUCT, T/A DUCT, S/A DUCT OPENING DURING THE COURSE OF CONSTRUCTION. TO PREVENT DUST/ DEBRIS ACCUMULATION. THIS INCLUDES ALL FLOOR DRAINS AND FAN COIL DRAIN PANS.

DRAWING NOTES

1. NEW OUTDOOR AIR SUPPLY DUCT FROM FLOOR BELOW 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 DRAWING NO. M-101 & M-104 FOR SPECIFICATIONS & DETAILS. INSTALL UNIT TIGHT TO CEILING SLAB AS HIGH AS POSSIBLE. FAN COIL UNIT SHALL NOT BE INSTALLED BELOW CONCRETE BEAM.(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 QUANTITES AS INDICATED. ALL FRESH AIR DUCT SHALL BE ROUND DUCT AS SHOWN. DAMPER SHALL BE LOCATED ABOVE T-BAR CEILING NOT ON DRY WALL CEILING (TYPICAL)
5. PROVIDE NEW SQUARE CONE DIFFUSER AND BALANCE TO AIR QUANTITY AS INDICATED. REFER TO DRAWING NO. M-101 FOR SPECIFICATIONS. CONTRACTOR TO COORDINATE FINAL LOCATION AND SIZE OF DIFFUSER ON SITE TO SUIT INSTALLATION OF NEW T-BAR CEILING AND LIGHTS. (TYPICAL)
6. PROVIDE NEW RETURN AIR GRILLES. REFER TO DRAWING NO. M-101 FOR SPECIFICATIONS. (TYPICAL)
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-101 & M-104 FOR SPECIFICATIONS & DETAILS.
8. PROVIDE A MINIMUM OF 50MM GAP/ OPENING AROUND DUCT RISER AT DRYWALL CEILING PENETRATION FOR AIR CIRCULATION FOR THE SHAFT ENCLOSURE.
9. PROVIDE ONE (1) 300MM X 300MM TYPE 'H' RETURN AIR GRILLE MOUNTED IN DRYWALL CEILING INSIDE SHAFT ENCLOSURE.
10. PROVIDE TWO (2) 250MM X 250MM TYPE 'H' RETURN AIR GRILLE MOUNTED ON SHAFT ENCLOSURE WALL. ONE GRILLE TO BE MOUNTED AT LOW LEVEL MINIMUM 12" A.F.F. AND THE OTHER GRILLE TO BE MOUNTED AT HIGH LEVEL MINIMUM 84" A.F.F., COORDINATE EXACT LOCATION & INSTALLATION HEIGHT WITH THE ARCHITECT ON SITE.

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE FLOOR BELOW 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

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

FAN COIL PLACEMENT & PIPING INSTALLATION

CONTRACTOR TO INFORM YORK REGION PROJECT MANAGER, ARCHITECT AND YORK REGION OPERATIONS TEAM AND SCHEDULE A MEETING ON SITE TO REVIEW AND SIGN-OFF ON ALL FAN COIL UNIT PLACEMENT AND PIPE INSTALLATIONS. ALL MECHANICAL FAN COIL UNITS TO BE INSTALLED IN A WAY WHERE NO INTERFERENCES (IE. SPRINKLER PIPE, CHILLED/ HEATING WATER LINES, ETC.) ARE NOT RUNNING UNDER THE UNIT. THIS IS TO ALLOW FOR THE MOTOR TO BE REPLACE IN FUTURE MAINTENANCE. CONTRACTOR TO ENSURE ADEQUATE SPACE IS PROVIDED TO ALLOW FOR REMOVAL & RE-INSTATEMENT OF FAN COIL UNIT FOR REGULAR MAINTENANCE/ SERVICING AND OR UNIT REPLACEMENT. FAILURE TO HAVE A MEETING TO SIGN-OFF ON THE INSTALLATION, THE CONTRACTOR IS TO BEAR ALL COST FOR THE REWORK.

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LICENSED PROFESSIONAL ENGINEER
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2024/05/24
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT: BUILDING & FACILITIES

FLOOR: GROUND, 2ND, 3RD, 4TH

BASE DATE: 11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100

DRAWN BY: K.J/G.P.Y.

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL GROUND FLOOR AT BLOCK 'D' - 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 DISCREPANCES 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 THIS FLOOR PRIOR TO COMMENCEMENT OF ANY WORK.
10. CONTRACTOR SHALL REMOVE ALL PROTECTIONS USED ON THIS 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

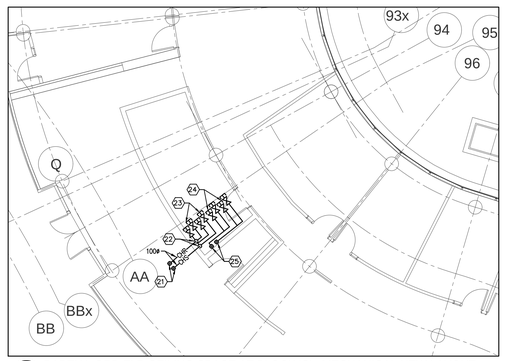
1. EXISTING OUTDOOR AIR SUPPLY DUCTWORK IN CEILING SPACE OF THIS FLOOR TO REMAIN. (TYPICAL)
2. EXISTING OUTDOOR AIR SUPPLY DUCT RISER TO REMAIN.
3. EXISTING MAIN CHILLED WATER SUPPLY & RETURN PIPING AND MAIN HEATING WATER SUPPLY & RETURN PIPING IN CEILING SPACE OF THIS FLOOR TO REMAIN. (TYPICAL)
4. CONNECT NEW OUTDOOR AIR SUPPLY DUCT TO EXISTING DUCTWORK AND MAKE GOOD INSULATION.
5. NEW OUTDOOR AIR SUPPLY DUCT UP TO FLOOR ABOVE, PROVIDE FIRE DAMPER AT FLOOR SLAB PENETRATION. PROVIDE AN ALLOWANCE FOR FLOOR SLAB CUTTING/DRILLING AS REQUIRED. FOR CONTINUATION REFER TO DRAWING NO. M-211 – SECOND FLOOR HVAC NEW LAYOUT.
6. CONNECT NEW CHILLED WATER SUPPLY PIPE TO EXISTING SAME SERVICE PIPING AT THIS POINT AND MAKE GOOD INSULATION.
7. RUN NEW CHILLED WATER SUPPLY PIPE UP TO FLOOR ABOVE. FOR CONTINUATION REFER TO DRAWING M-211 – SECOND FLOOR HVAC NEW LAYOUT.
8. NEW 65ø CHILLED WATER RETURN PIPE SERVING NEW FAN COIL UNITS FROM FLOOR ABOVE. EXTEND NEW PIPE AND CONNECT TO EXISTING MAIN CHILLED WATER PIPE RISERS AT THIS APPROXIMATE LOCATION. PROVIDE SHUT-OFF & BALANCING VALVES. EXACT CONNECTION TO BE CONFIRMED ON SITE.
9. CONNECT NEW HEATING WATER SUPPLY PIPE SERVING NEW WALL FINNED RADIATORS ON FLOOR ABOVE TO EXISTING CAPPED SERVICE AT THIS APPROXIMATE LOCATION PROVIDE NEW SHUT-OFF VALVES. EXACT CONNECTION TO BE CONFIRMED ON SITE.
10. PROVIDE NEW 20ø HEATING WATER SUPPLY/RETURN PIPE. EXTEND NEW HEATING WATER SUPPLY/RETURN PIPE UP TO FLOOR ABOVE 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. CONNECT NEW 50ø HEATING WATER RETURN PIPE SERVING NEW WALL FINNED RADIATORS ON FLOOR ABOVE TO EXISTING MAIN HEATING WATER RETURN PIPE RISER AT THIS APPROXIMATE LOCATION. PROVIDE NEW SHUT-OFF VALVES. EXACT CONNECTION TO BE CONFIRMED ON SITE.
13. INSTALL NEW HEATING WATER SUPPLY AND RETURN PIPING C/W INSULATION. NEW HEATING PIPING SHALL BE SCHEDULE 40 BLACK STEEL. VICTAULIC 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.
14. PRESSURE TEST ALL NEW PIPING FOR 24 HOURS WITH NO LOSS OF PRESSURE PRIOR TO INSULATING FITTINGS AND OPENING MAIN VALVES. (TYPICAL)
15. CONTRACTOR TO CORE DRILL EXISTING CONCRETE WALL & PROVIDE 300ø OPENING ON WALL FOR AIR INTAKE. OPENING SHALL BE LOCATED IN CEILING PLENUM ABOVE DRYWALL CEILING TILES. EXACT LOCATION TO BE CONFIRMED ON SITE. REFER TO SECTION. PROVIDE FIRE DAMPER AT WALL PENETRATION.
16. EXTEND AIR EXHAUST FLEXIBLE HOSE FROM PORTABLE A/C UNIT UP & CONNECT TO NEW 300x250 EXHAUST DUCT AT HIGH LEVEL. PROVIDE DUCT TRANSITION AS REQUIRED. REFER TO SECTION. PROVIDE DUCT CLAMP ON AIR EXHAUST FLEXIBLE HOSE CONNECTION TO EXHAUST DUCT.
17. PROVIDE NEW PORTABLE AIR-CONDITIONING UNIT TO SERVE 3RD FLOOR ELECTRICAL ROOM. PORTABLE A/C UNIT SHALL BE OR EQUAL TO BLACK & DECKER MODEL #BPACT14WT, 14 MBH OF COOLING, 3 FAN SPEED, 115V/ 1PH/ 60HZ, 1.38 KW, 12.0 AMPS, 5-15P PLUG TYPE, 6 FT LONG POWER CORD, C/W AIR EXHAUST FLEXIBLE HOSE AND REMOTE CONTROL (PORTABLE A/C MODEL REFERENCE TO HOME DEPOT WEBSITE: HTTPS://WWW.HOMEDEPOT.CA/PRODUCT/BLACK-DECKER-14-000-BTU-7-700-BTU-DOE-PORTABLE-AIR-CONDITIONER-WITH-REMOTE-CONTROL-WHITE/1001737238). COORDINATE EXACT LOCATION ON SITE.
18. PROVIDE NEW 300x250 EXHAUST AIR DUCT AT HIGH LEVEL AND EXTEND TO NEW WALL OPENING AND CONNECT TO 300MM DIA. EXHAUST DUCT. PROVIDE SHEET METAL FRAME TO SUPPORT EXHAUST DUCT AT WALL PENETRATION AS REQUIRED. PROVIDE DUCT SUPPORTS & HANGERS FOR NEW EXHAUST DUCT AT HIGH LEVEL. PROVIDE DUCT TRANSITIONS. PROVIDE FIRE DAMPER AT WALL PENETRATION.
19. CONTRACTOR TO CORE DRILL EXISTING CONCRETE WALL & PROVIDE 300ø OPENING ON WALL FOR NEW EXHAUST DUCT. OPENING SHALL BE LOCATED IN CEILING PLENUM ABOVE DRYWALL/CEILING TILES. EXACT LOCATION TO BE CONFIRMED ON SITE.
20. AFTER CHILLED WATER & HEATING WATER LINES HAS BEEN RESTORED AND ACTIVE. CONTRACTOR TO ENSURE EXISTING FANCOIL UNIT SERVING ELECTRICAL ROOM IS OPERATIONAL. ONCE CONFIRMED, CONTRACTOR SHALL REMOVE EXISTING EXHAUST DUCTWORK FROM WALL OPENING TO PORTABLE A/C UNIT AND DISPOSE OFF-SITE. PATCH & SEAL EXISTING WALL OPENING FOR EXHAUST & AIR INTAKE ON CONCRETE WALL AND MAKE GOOD. PORTABLE A/C UNIT C/W AIR EXHAUST FLEXIBLE HOSE SHALL BE RETURNED TO YORK REGION.
21. NEW 100ø CHILLED WATER SUPPLY & RETURN PIPE FROM FLOOR ABOVE. EXTEND PIPE TO EXISTING ELECTRICAL ROOM AS SHOWN. PROVIDE APPROVED FIRESTOPPING AT FLOOR PENETRATION.
22. DROP NEW 100ø CHILLED WATER SUPPLY & RETURN PIPE TO FLOOR BELOW. PROVIDE APPROVED FIRESTOPPING AT FLOOR PENETRATION.
23. PROVIDE CAPPED & VALVED 75ø CHILLED WATER SUPPLY & RETURN PIPE FOR FUTURE CONNECTION. (TYPICAL OF 4).
24. PROVIDE CAPPED & VALVED 50ø HEATING WATER SUPPLY & RETURN PIPE FOR FUTURE CONNECTION. (TYPICAL OF 4).
25. NEW 75ø HEATING WATER SUPPLY & RETURN PIPE RISERS FROM 2ND FLOOR. EXTEND RISERS DOWN TO BASEMENT AND CONNECT TO EXISTING SERVICES. PROVIDE APPROVED FIRESTOPPING AT FLOOR PENETRATION. FOR CONTINUATION REFER TO DRAWING M-208 – BASEMENT MECHANICAL NEW LAYOUT.

NOTES

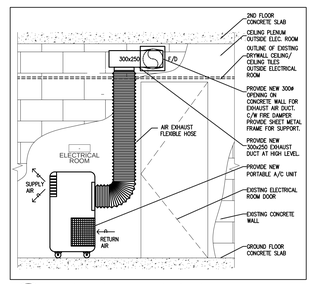
ALL MECHANICAL WORKS INVOLVED ON THE THIS FLOOR SHALL ONLY BE DONE AFTER HOURS (5:30 PM TO 8:30 AM). THIS INCLUDES REMOVAL & CAPPING OF OUTDOOR AIR DUCTWORK IN CEILING SPACE, REMOVAL/CAPPING/NEW CONNECTION OF CHILLED WATER PIPES & HEATING WATER PIPES, REMOVAL/CAPPING/NEW CONNECTION OF CONDENSATE DRAIN,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

FINAL AIR BALANCING NOTE

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



2 / M-210 PARTIAL GRD FLR CEILING SPACE AT BLOCK 'C' - MECHANICAL NEW LAYOUT
SCALE: 1: 100



1 / M-210 ELECTRICAL RM - SECTION
SCALE: N.T.S.

SUBMISSION	DATE	DESCRIPTION
6	2024-09-18	ISSUED FOR CONSTRUCTION
5	2024-07-23	ISSUED AS PER ADDENDUM M-2
4	2024-07-15	ISSUED AS PER ADDENDUM M-1
3	2024-05-24	ISSUED FOR PERMIT/TENDER
2	2024-04-17	ISSUED FOR 90% PROGRESS REVIEW
1	2024-01-30	ISSUED FOR 60% PROGRESS REVIEW

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LICENSED PROFESSIONAL ENGINEER
G.G. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region
PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023
PROJECT:	

TENDER # RFTC-652-22

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE:	1:100
DRAWN BY:	K.J/G.P.Y.
SUBMITTED TO:	MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL GROUND FLOOR CEILING SPACE AT BLOCK 'A' & 'C' - MECHANICAL NEW LAYOUT

SHEET NUMBER:

M-210

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF 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 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)
10. PROVIDE TEMPORARY COVER ON ALL F/A DUCT, T/A DUCT, S/A DUCT OPENING DURING THE COURSE OF CONSTRUCTION. TO PREVENT DUST/ DEBRIS ACCUMULATION. THIS INCLUDES ALL FLOOR DRAINS AND FAN COIL DRAIN PANS.

DRAWING NOTES

1. NEW OUTDOOR AIR SUPPLY DUCT FROM FLOOR BELOW 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 DRAWING NO. M-101 & M-104 FOR SPECIFICATIONS & DETAILS. INSTALL UNIT TIGHT TO CEILING SLAB AS HIGH AS POSSIBLE. FAN COIL UNIT SHALL NOT BE INSTALLED BELOW CONCRETE BEAM.(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. DAMPER SHALL BE LOCATED ABOVE T-BAR CEILING NOT ON DRY WALL CEILING (TYPICAL)
5. PROVIDE NEW SQUARE CONE DIFFUSER AND BALANCE TO AIR QUANTITY AS INDICATED. REFER TO DRAWING NO. M-101 FOR SPECIFICATIONS. CONTRACTOR TO COORDINATE FINAL LOCATION AND SIZE OF DIFFUSER ON SITE TO SUIT INSTALLATION OF NEW T-BAR CEILING AND LIGHTS. (TYPICAL)
6. PROVIDE NEW RETURN AIR GRILLES. REFER TO DRAWING NO. M-101 FOR SPECIFICATIONS. (TYPICAL)
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-101 & M-104 FOR SPECIFICATIONS & DETAILS.
8. PROVIDE A MINIMUM OF 50MM GAP/ OPENING AROUND DUCT RISER AT DRYWALL CEILING PENETRATION FOR AIR CIRCULATION FOR THE SHAFT ENCLOSURE.
9. PROVIDE ONE (1) 300MM X 300MM TYPE 'H' RETURN AIR GRILLE MOUNTED IN DRYWALL CEILING INSIDE SHAFT ENCLOSURE.
10. PROVIDE TWO (2) 250MM X 250MM TYPE 'H' RETURN AIR GRILLE MOUNTED ON SHAFT ENCLOSURE WALL. ONE GRILLE TO BE MOUNTED AT LOW LEVEL MINIMUM 12" A.F.F. AND THE OTHER GRILLE TO BE MOUNTED AT HIGH LEVEL MINIMUM 84" A.F.F.. COORDINATE EXACT LOCATION & INSTALLATION HEIGHT WITH THE ARCHITECT ON SITE.
11. PROVIDE NEW OUTDOOR AIR DUCTWORK AND CONNECT FROM EXISTING DUCT IN CEILING SPACE AT THIS APPROXIMATE LOCATION. EXTEND NEW DUCT TO NEW FAN COIL UNITS. SIZE DUCT AS INDICATED. (TYPICAL)

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE FLOOR BELOW 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

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:

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

FAN COIL PLACEMENT & PIPING INSTALLATION

CONTRACTOR TO INFORM YORK REGION PROJECT MANAGER, ARCHITECT AND YORK REGION OPERATIONS TEAM AND SCHEDULE A MEETING ON SITE TO REVIEW AND SIGN-OFF ON ALL FAN COIL UNIT PLACEMENT AND PIPE INSTALLATIONS. ALL MECHANICAL FAN COIL UNITS TO BE INSTALLED IN A WAY WHERE NO INTERFERENCES (IE. SPRINKLER PIPE, CHILLED/ HEATING WATER LINES, ETC.) ARE NOT RUNNING UNDER THE UNIT. THIS IS TO ALLOW FOR THE MOTOR TO BE REPLACE IN FUTURE MAINTENANCE. CONTRACTOR TO ENSURE ADEQUATE SPACE IS PROVIDED TO ALLOW FOR REMOVAL & RE-INSTATEMENT OF FAN COIL UNIT FOR REGULAR MAINTENANCE/ SERVICING AND OR UNIT REPLACEMENT. FAILURE TO HAVE A MEETING TO SIGN-OFF ON THE INSTALLATION, THE CONTRACTOR IS TO BEAR ALL COST FOR THE REWORK.

SUBMISSION	DATE	DESCRIPTION
6	2024-09-18	ISSUED FOR CONSTRUCTION
5	2024-07-23	ISSUED AS PER ADDENDUM M-2
4	2024-07-15	ISSUED AS PER ADDENDUM M-1
3	2024-05-24	ISSUED FOR PERMIT/TENDER
2	2024-04-17	ISSUED FOR 90% PROGRESS REVIEW
1	2024-01-30	ISSUED FOR 60% PROGRESS REVIEW

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LICENSED PROFESSIONAL ENGINEER
G.G. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT: BUILDING & FACILITIES
FLOOR: GROUND, 2ND, 3RD, 4TH
BASE DATE: 11-28-2023
PROJECT:

TENDER # RFTC-652-22

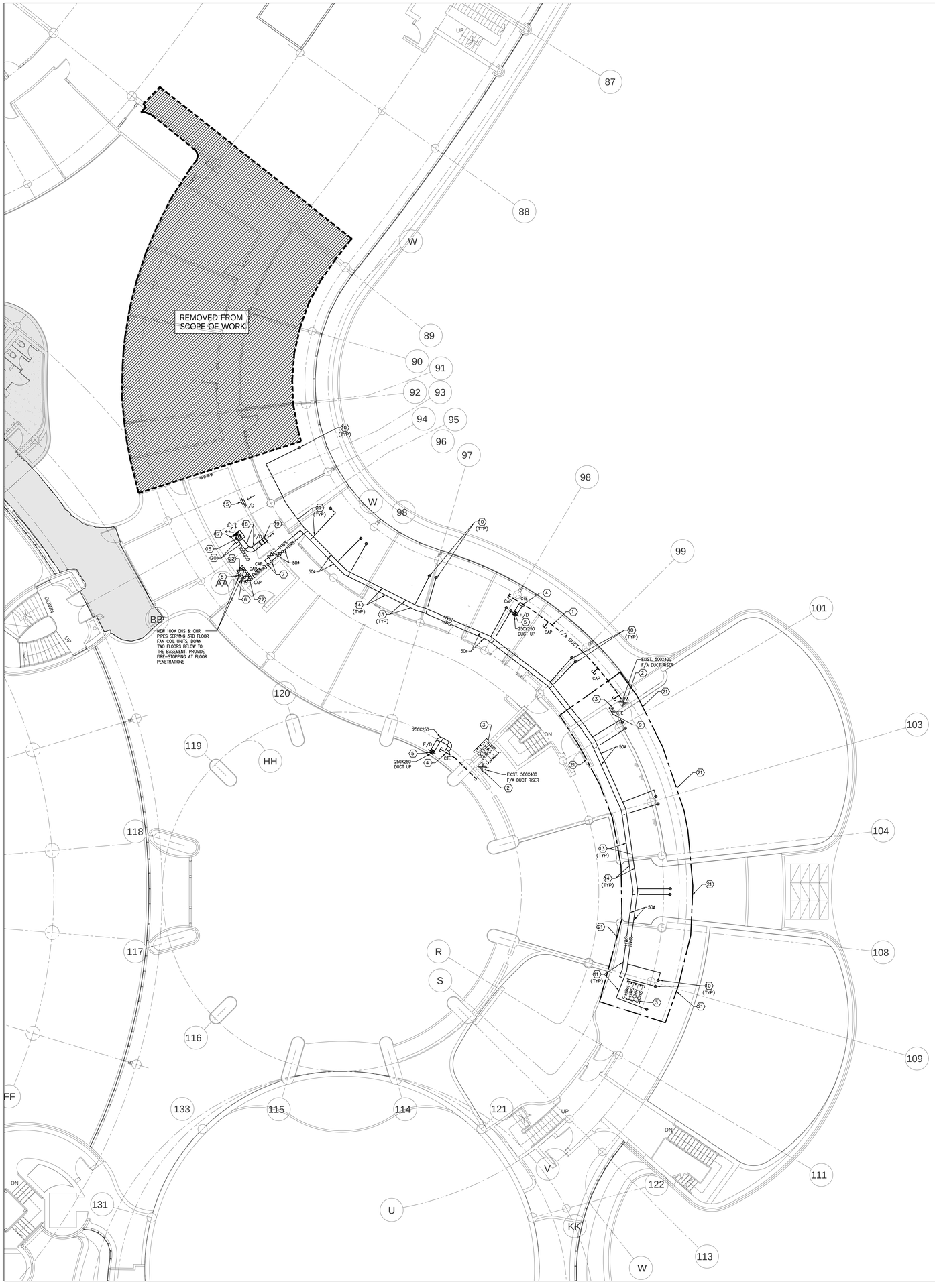
YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100
DRAWN BY: K.J/G.P.Y.
SUBMITTED TO: MUNICIPALITY OF YORK
SHEET TITLE:

PARTIAL SECOND FLOOR AT BLOCK 'A' - 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 DISCREPANCES 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 THIS FLOOR PRIOR TO COMMENCEMENT OF ANY WORK.
10. CONTRACTOR SHALL REMOVE ALL PROTECTIONS USED ON THIS 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

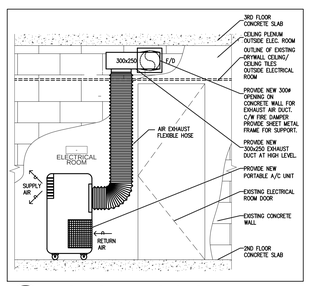
1. EXISTING OUTDOOR AIR SUPPLY DUCTWORK IN CEILING SPACE OF THIS FLOOR TO REMAIN. (TYPICAL)
2. EXISTING OUTDOOR AIR SUPPLY DUCT RISER TO REMAIN.
3. EXISTING MAIN CHILLED WATER SUPPLY & RETURN PIPING AND MAIN HEATING WATER SUPPLY & RETURN PIPING IN CEILING SPACE OF THIS FLOOR TO REMAIN. (TYPICAL)
4. CONNECT NEW OUTDOOR AIR SUPPLY DUCT TO EXISTING DUCTWORK AND MAKE GOOD INSULATION.
5. NEW OUTDOOR AIR SUPPLY DUCT UP TO FLOOR ABOVE, PROVIDE FIRE DAMPER AT FLOOR SLAB PENETRATION. PROVIDE AN ALLOWANCE FOR FLOOR SLAB CUTTING/DRILLING AS REQUIRED. FOR CONTINUATION REFER TO DRAWING NO. M-211 – SECOND FLOOR HVAC NEW LAYOUT.
6. NEW 100ø CHILLED WATER SUPPLY PIPE RISER FROM FLOOR BELOW AND EXTEND UP TO 3RD FLOOR TO SERVE NEW FAN COIL UNITS. PROVIDE APPROVED FIRESTOPPING AT FLOOR PENETRATION.
7. NEW 75ø HEATING WATER SUPPLY & RETURN PIPE DOWN TO BASEMENT AND CONNECT TO EXISTING SERVICES. PROVIDE APPROVED FIRESTOPPING AT FLOOR PENETRATION. FOR CONTINUATION REFER TO DRAWING M-210 – GROUND FLOOR MECHANICAL NEW LAYOUT.
8. NEW 100ø CHILLED WATER RETURN PIPE RISER FROM FLOOR ABOVE AND DROP DOWN TO THE BASEMENT TO CONNECT TO EXISTING SERVICES. PROVIDE APPROVED FIRESTOPPING AT FLOOR PENETRATION.
9. CONNECT NEW HEATING WATER SUPPLY PIPE SERVING NEW WALL FINNED RADIATORS ON FLOOR ABOVE TO EXISTING CAPPED SERVICE AT THIS APPROXIMATE LOCATION PROVIDE NEW SHUT-OFF VALVES. EXACT CONNECTION TO BE CONFIRMED ON SITE.
10. PROVIDE NEW 20ø HEATING WATER SUPPLY/RETURN PIPE C/W SHUT-OFF VALVES. EXTEND NEW HEATING WATER SUPPLY/RETURN PIPE UP TO FLOOR ABOVE 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. CONNECT NEW HEATING WATER RETURN PIPE SERVING NEW WALL FINNED RADIATORS ON FLOOR ABOVE TO EXISTING MAIN HEATING WATER RETURN PIPE RISER AT THIS APPROXIMATE LOCATION PROVIDE NEW SHUT-OFF VALVES. EXACT CONNECTION TO BE CONFIRMED ON SITE.
13. 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. VICTAULIC 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.
14. PRESSURE TEST ALL NEW PIPING FOR 24 HOURS WITH NO LOSS OF PRESSURE PRIOR TO INSULATING FITTINGS AND OPENING MAIN VALVES. (TYPICAL)
15. CONTRACTOR TO CORE DRILL EXISTING CONCRETE WALL & PROVIDE 300ø OPENING ON WALL FOR AIR INTAKE. OPENING SHALL BE LOCATED IN CEILING PLENUM ABOVE DRYWALL CEILING TILES. EXACT LOCATION TO BE CONFIRMED ON SITE. REFER TO SECTION. PROVIDE FIRE DAMPER AT WALL PENETRATION.
16. EXTEND AIR EXHAUST FLEXIBLE HOSE FROM PORTABLE A/C UNIT UP & CONNECT TO NEW 300x250 EXHAUST DUCT AT HIGH LEVEL. PROVIDE DUCT TRANSITION AS REQUIRED. REFER TO SECTION. PROVIDE DUCT CLAMP ON AIR EXHAUST FLEXIBLE HOSE CONNECTION TO EXHAUST DUCT.
17. PROVIDE NEW PORTABLE AIR-CONDITIONING UNIT TO SERVE 3RD FLOOR ELECTRICAL ROOM. PORTABLE A/C UNIT SHALL BE OR EQUAL TO BLACK & DECKER MODEL #BPACT14WT, 14 MBH OF COOLING, 3 FAN SPEED, 115V/ 1PH/ 60HZ, 1.38 KW, 12.0 AMPS, 5-15P PLUG TYPE, 6 FT LONG POWER CORD, C/W AIR EXHAUST FLEXIBLE HOSE AND REMOTE CONTROL (PORTABLE A/C MODEL REFERENCE TO HOME DEPOT WEBSITE: HTTPS://WWW.HOMEDEPOT.CA/PRODUCT/BLACK-DECKER-14-000-BTU-7-700-BTU-DOE-PORTABLE-AIR-CONDITIONER-WITH-REMOTE-CONTROL-WHITE/1001737238). COORDINATE EXACT LOCATION ON SITE.
18. PROVIDE NEW 300x250 EXHAUST AIR DUCT AT HIGH LEVEL AND EXTEND TO NEW WALL OPENING AND CONNECT TO 300MM DIA. EXHAUST DUCT. PROVIDE SHEET METAL FRAME TO SUPPORT EXHAUST DUCT AT WALL PENETRATION AS REQUIRED. PROVIDE DUCT SUPPORTS & HANGERS FOR NEW EXHAUST DUCT AT HIGH LEVEL. PROVIDE DUCT TRANSITIONS. PROVIDE FIRE DAMPER AT WALL PENETRATION.
19. CONTRACTOR TO CORE DRILL EXISTING CONCRETE WALL & PROVIDE 300ø OPENING ON WALL FOR NEW EXHAUST DUCT. OPENING SHALL BE LOCATED IN CEILING PLENUM ABOVE DRYWALL/CEILING TILES. EXACT LOCATION TO BE CONFIRMED ON SITE.
20. AFTER CHILLED WATER & HEATING WATER LINES HAS BEEN RESTORED AND ACTIVE. CONTRACTOR TO ENSURE EXISTING FANCOIL UNIT SERVING ELECTRICAL ROOM IS OPERATIONAL, ONCE CONFIRMED, CONTRACTOR SHALL REMOVE EXISTING EXHAUST DUCTWORK FROM WALL OPENING TO PORTABLE A/C UNIT AND DISPOSE OFF-SITE. PATCH & SEAL EXISTING WALL OPENING FOR EXHAUST & AIR INTAKE ON CONCRETE WALL AND MAKE GOOD. PORTABLE A/C UNIT C/W AIR EXHAUST FLEXIBLE HOSE SHALL BE RETURNED TO YORK REGION.
21. ALL WORK INVOLVED WITHIN THIS AREA WILL BE AT HIGH LEVEL. CONTRACTOR TO PROVIDE ALLOWANCE FOR PROVIDING NECESSARY SCAFFOLDING AND SCISSOR LIFT TO EXECUTE DEMOLITION/ NEW WORK AS SHOWN. ALLOW FOR CUTTING/ PATCHING OF EXISTING DRYWALL CEILING TO SUIT DEMOLITION/ NEW WORK.
22. PROVIDE CAPPED & VALVED 75ø CHILLED WATER SUPPLY & RETURN PIPE FOR FUTURE CONNECTION. (TYPICAL OF 4).

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE THIS 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

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



1 M-210 ELECTRICAL RM - SECTION
SCALE: N.T.S.

SUBMISSION	DATE	DESCRIPTION
6	2024-09-18	ISSUED FOR CONSTRUCTION
5	2024-07-23	ISSUED AS PER ADDENDUM M-2
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2	2024-04-17	ISSUED FOR 90% PROGRESS REVIEW
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LICENSED PROFESSIONAL ENGINEER
G.P. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region
PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100

DRAWN BY: K.J/G.P.Y.

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL SECOND FLOOR CEILING SPACE AT BLOCK 'B' & 'C' - MECHANICAL NEW LAYOUT

SHEET NUMBER:

M-212

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCES 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 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)
10. PROVIDE TEMPORARY COVER ON ALL F/A DUCT, T/A DUCT, S/A DUCT OPENING DURING THE COURSE OF CONSTRUCTION. TO PREVENT DUST/ DEBRIS ACCUMULATION. THIS INCLUDES ALL FLOOR DRAINS AND FAN COIL DRAIN PANS.

DRAWING NOTES

1. NEW OUTDOOR AIR SUPPLY DUCT FROM FLOOR BELOW 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 DRAWING NO. M-101 & M-104 FOR SPECIFICATIONS & DETAILS. INSTALL UNIT TIGHT TO CEILING SLAB AS HIGH AS POSSIBLE. FAN COIL UNIT SHALL NOT BE INSTALLED BELOW CONCRETE BEAM.(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 QUANTITES AS INDICATED. ALL FRESH AIR DUCT SHALL BE ROUND DUCT AS SHOWN. DAMPER SHALL BE LOCATED ABOVE T-BAR CEILING NOT ON DRY WALL CEILING (TYPICAL)
5. PROVIDE NEW SQUARE CONE DIFFUSER AND BALANCE TO AIR QUANTITY AS INDICATED. REFER TO DRAWING NO. M-101 FOR SPECIFICATIONS. CONTRACTOR TO COORDINATE FINAL LOCATION AND SIZE OF DIFFUSER ON SITE TO SUIT INSTALLATION OF NEW T-BAR CEILING AND LIGHTS. (TYPICAL)
6. PROVIDE NEW RETURN AIR GRILLES. REFER TO DRAWING NO. M-101 FOR SPECIFICATIONS. (TYPICAL)
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-101 & M-104 FOR SPECIFICATIONS & DETAILS.
8. PROVIDE A MINIMUM OF 50MM GAP/ OPENING AROUND DUCT RISER AT DRYWALL CEILING PENETRATION FOR AIR CIRCULATION FOR THE SHAFT ENCLOSURE.
9. PROVIDE ONE (1) 300MM X 300MM TYPE 'H' RETURN AIR GRILLE MOUNTED IN DRYWALL CEILING INSIDE SHAFT ENCLOSURE.
10. PROVIDE TWO (2) 250MM X 250MM TYPE 'H' RETURN AIR GRILLE MOUNTED ON SHAFT ENCLOSURE WALL. ONE GRILLE TO BE MOUNTED AT LOW LEVEL MINIMUM 12" A.F.F. AND THE OTHER GRILLE TO BE MOUNTED AT HIGH LEVEL MINIMUM 84" A.F.F., COORDINATE EXACT LOCATION & INSTALLATION HEIGHT WITH THE ARCHITECT ON SITE.

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE FLOOR BELOW 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

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:

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

FAN COIL PLACEMENT & PIPING INSTALLATION

CONTRACTOR TO INFORM YORK REGION PROJECT MANAGER, ARCHITECT AND YORK REGION OPERATIONS TEAM AND SCHEDULE A MEETING ON SITE TO REVIEW AND SIGN-OFF ON ALL FAN COIL UNIT PLACEMENT AND PIPE INSTALLATIONS. ALL MECHANICAL FAN COIL UNITS TO BE INSTALLED IN A WAY WHERE NO INTERFERENCES (IE. SPRINKLER PIPE, CHILLED/ HEATING WATER LINES, ETC.) ARE NOT RUNNING UNDER THE UNIT. THIS IS TO ALLOW FOR THE MOTOR TO BE REPLACE IN FUTURE MAINTENANCE. CONTRACTOR TO ENSURE ADEQUATE SPACE IS PROVIDED TO ALLOW FOR REMOVAL & RE-INSTATEMENT OF FAN COIL UNIT FOR REGULAR MAINTENANCE/ SERVICING AND OR UNIT REPLACEMENT. FAILURE TO HAVE A MEETING TO SIGN-OFF ON THE INSTALLATION, THE CONTRACTOR IS TO BEAR ALL COST FOR THE REWORK.

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LICENSED PROFESSIONAL ENGINEER
G.G. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region
PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100

DRAWN BY: K.J/G.P.Y.

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL THIRD FLOOR AT BLOCK 'B' & 'C' - HVAC NEW LAYOUT

SHEET NUMBER:

M-213

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 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 FLOOR ABOVE, PROVIDE FIRE DAMPER AT FLOOR SLAB PENETRATION. PROVIDE AN ALLOWANCE FOR FLOOR SLAB CUTTING/DRILLING AS REQUIRED. FOR CONTINUATION REFER TO DRAWING NO. M-215-4TH FLOOR HVAC NEW LAYOUT
6. EXISTING CHILLED WATER SUPPLY AND HEATING WATER SUPPLY PIPES FOR PERIMETER TO REMAIN. (TYPICAL)
7. EXISTING CHILLED WATER RETURN AND HEATING WATER RETURN PIPES RUNNING INSIDE SOFFIT SPACE TO REMAIN. (TYPICAL)
8. EXISTING FRESH AIR DUCT RUNNING INSIDE SOFFIT SPACE TO REMAIN. (TYPICAL)
9. EXISTING CONDENSATE DRAIN LINE RUNNING INSIDE SOFFIT SPACE TO REMAIN. (TYPICAL)
10. PROVIDE NEW 20# HEATING WATER SUPPLY/RETURN PIPE. EXTEND NEW HEATING WATER SUPPLY/RETURN PIPES UP TO FLOOR ABOVE 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)

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 THIS FLOOR PRIOR TO COMMENCEMENT OF ANY WORK.
10. CONTRACTOR SHALL REMOVE ALL PROTECTIONS USED ON THIS 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.

NOTES

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FINAL AIR BALANCING NOTE

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LICENSED PROFESSIONAL ENGINEER
G. G. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT: BUILDING & FACILITIES

FLOOR: GROUND, 2ND, 3RD, 4TH

BASE DATE: 11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100

DRAWN BY: K.J/G.P.Y.

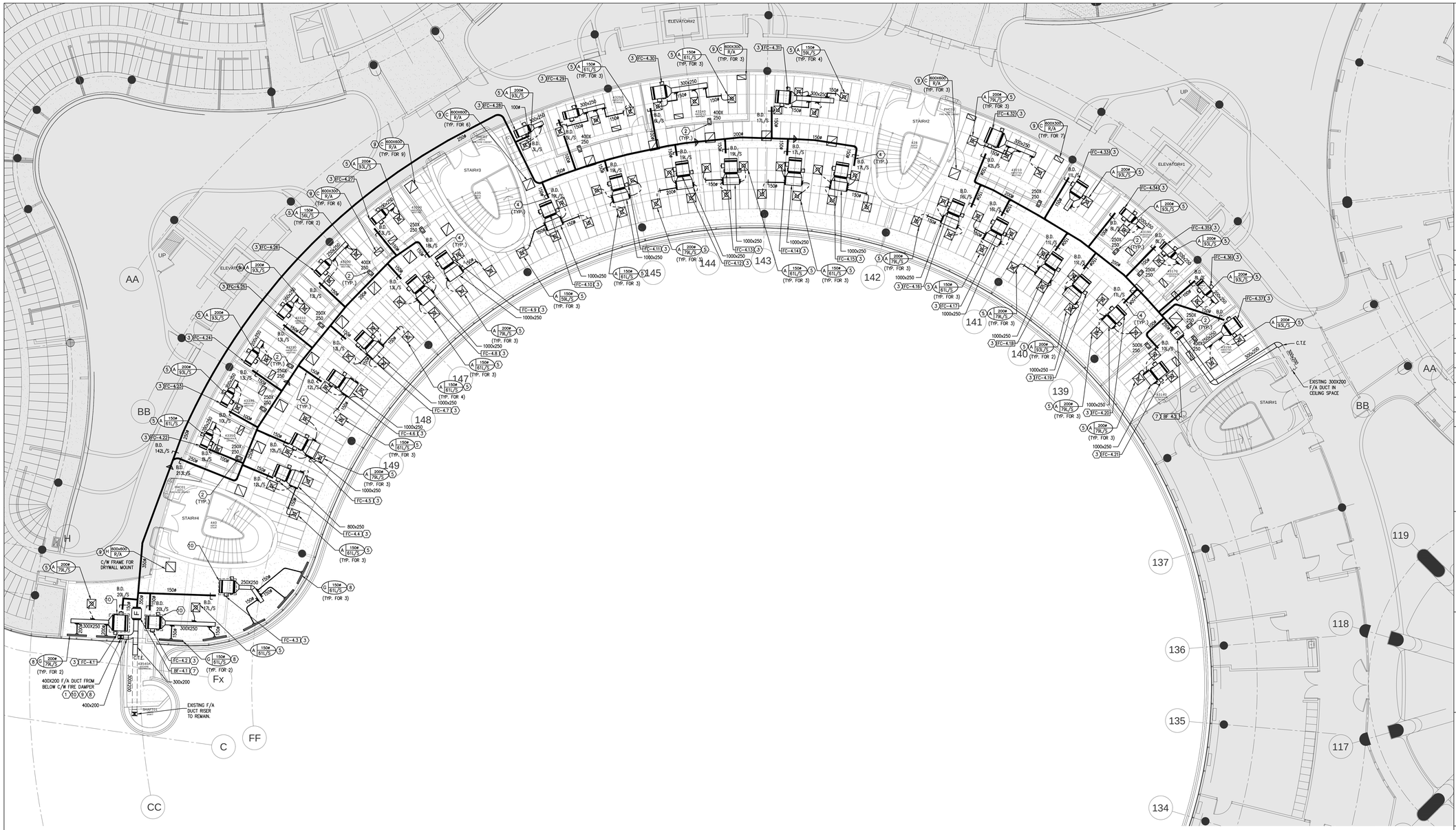
SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL THIRD FLOOR CEILING SPACE AT BLOCK 'A' & 'B' - MECHANICAL NEW LAYOUT

SHEET NUMBER:

M-214



FAN COIL PLACEMENT & PIPING INSTALLATION

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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 DRAWING NO. M-101, M-102, M-103, M-104, M-105 & M-106 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. (TYPICAL)
5. PROVIDE NEW SQUARE CONE DIFFUSER AND BALANCE TO AIR QUANTITY AS INDICATED. REFER TO DRAWING NO. M-100 FOR SPECIFICATIONS. CONTRACTOR TO COORDINATE FINAL LOCATION AND SIZE OF DIFFUSER ON SITE TO SUIT INSTALLATION OF NEW T-BAR CEILING AND LIGHTS. (TYPICAL)
6. PROVIDE 1" WIDE ARCHITECTURAL SLOT FOR RETURN AIR. RETURN SLOT SHALL BE C/W SIGHT BAFFLE ABOVE.
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 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-101 FOR SPECIFICATIONS. (TYPICAL)
9. PROVIDE NEW RETURN AIR GRILLES. REFER TO DRAWING NO. M-101 FOR SPECIFICATIONS. (TYPICAL)
10. PROVIDE TELESCOPING BOTTOM PANEL FOR CEILING-HUNG FAN COIL UNIT SERVICE ACCESS. PANEL TO BE INSTALLED FLUSHED WITH EXISTING DRYWALL CEILING. PROVIDE AN ALLOWANCE FOR EXISTING DRYWALL CEILING CUTTING AND PATCHING TO SUIT INSTALLATION OF NEW ACCESS PANEL. PROVIDE REQUIRED SUPPORT/ HANGERS AS REQUIRED. TELESCOPING BOTTOM PANEL BY FAN COIL MANUFACTURER. (TYPICAL FOR 3)

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:

   2.1 FHP03 (1/2 TON) FILTER SIZE: 19"x10.5"x1"
   2.2 FHP06 (1 TON) FILTER SIZE: 31"x10.5"x1"
   2.3 FHP08 (1-1/4 TON) FILTER SIZE: 2 SETS OF 19"x10.5"x1"

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)

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE FLOOR BELOW 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

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

SUBMISSION	DATE	DESCRIPTION
6	2024-09-18	ISSUED FOR CONSTRUCTION
5	2024-07-23	ISSUED AS PER ADDENDUM M-2
4	2024-07-15	ISSUED AS PER ADDENDUM M-1
3	2024-05-24	ISSUED FOR PERMIT/TENDER
2	2024-04-17	ISSUED FOR 90% PROGRESS REVIEW
1	2024-01-30	ISSUED FOR 60% PROGRESS REVIEW

G.Bruce Stratton Architects

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L3R 8C5

Tel: 905 475 3138
Fax: 866 853 3732
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@gpyengineering.com

LICENSED PROFESSIONAL ENGINEER
G.G. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT: BUILDING & FACILITIES

FLOOR: GROUND, 2ND, 3RD, 4TH

BASE DATE: 11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100

DRAWN BY: K.J/G.P.Y.

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL FOURTH FLOOR AT BLOCK 'A' & 'B' - HVAC NEW LAYOUT

SHEET NUMBER:

M-215

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.

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. CUT SPRINKLER BRANCH PIPE BACK TO MAIN. (TYPICAL)
4. EXISTING SINK AT THIS LOCATION AS SHOWN TO BE REMOVED IN ITS ENTIRETY. CUT ASSOCIATED CW, HW, AND SAN. VENT BACK TO CEILING SPACE. REMOVE EXISTING SANITARY DRAIN IN CEILING OF FLOOR BELOW.
5. REMOVE EXISTING FIRE HOSE CABINET AND SAVE SAFELY ON SITE FOR RELOCATION. CUT FIRE LINE BACK TO CEILING SPACE AND MAKE PIPING GOOD FOR FUTURE CONNECTION.
6. EXISTING PLUMBING FIXTURE TO BE REMOVED IN ITS ENTIRETY. ASSOCIATED CW & HW LINES AND SAN. VENT PIPE BACK TO CEILING SPACE. REMOVE EXISTING SANITARY DRAIN IN CEILING OF FLOOR BELOW.

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.

FAN COIL PLACEMENT & PIPING INSTALLATION NOTES:

CONTRACTOR TO INFORM YORK REGION PROJECT MANAGER, ARCHITECT AND YORK REGION OPERATIONS TEAM AND SCHEDULE A MEETING ON SITE TO REVIEW AND SIGN-OFF ON ALL FAN COIL UNIT PLACEMENT AND PIPE INSTALLATIONS. ALL MECHANICAL FAN COIL UNITS TO BE INSTALLED IN A WAY WHERE NO INTERFERENCES (IE. SPRINKLER PIPE, CHILLED/ HEATING WATER LINES, ETC,) ARE NOT RUNNING UNDER THE UNIT. THIS IS TO ALLOW FOR THE MOTOR TO BE REPLACE IN FUTURE MAINTENANCE. CONTRACTOR TO ENSURE ADEQUATE SPACE IS PROVIDED TO ALLOW FOR REMOVAL & RE-INSTATEMENT OF FAN COIL UNIT FOR REGULAR MAINTENANCE/ SERVICING AND OR UNIT REPLACEMENT. FAILURE TO HAVE A MEETING TO SIGN-OFF ON THE INSTALLATION, THE CONTRACTOR IS TO BEAR ALL COST FOR THE REWORK.

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LICENSED PROFESSIONAL ENGINEER
GUY YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100

DRAWN BY: K.J/G.P.Y.

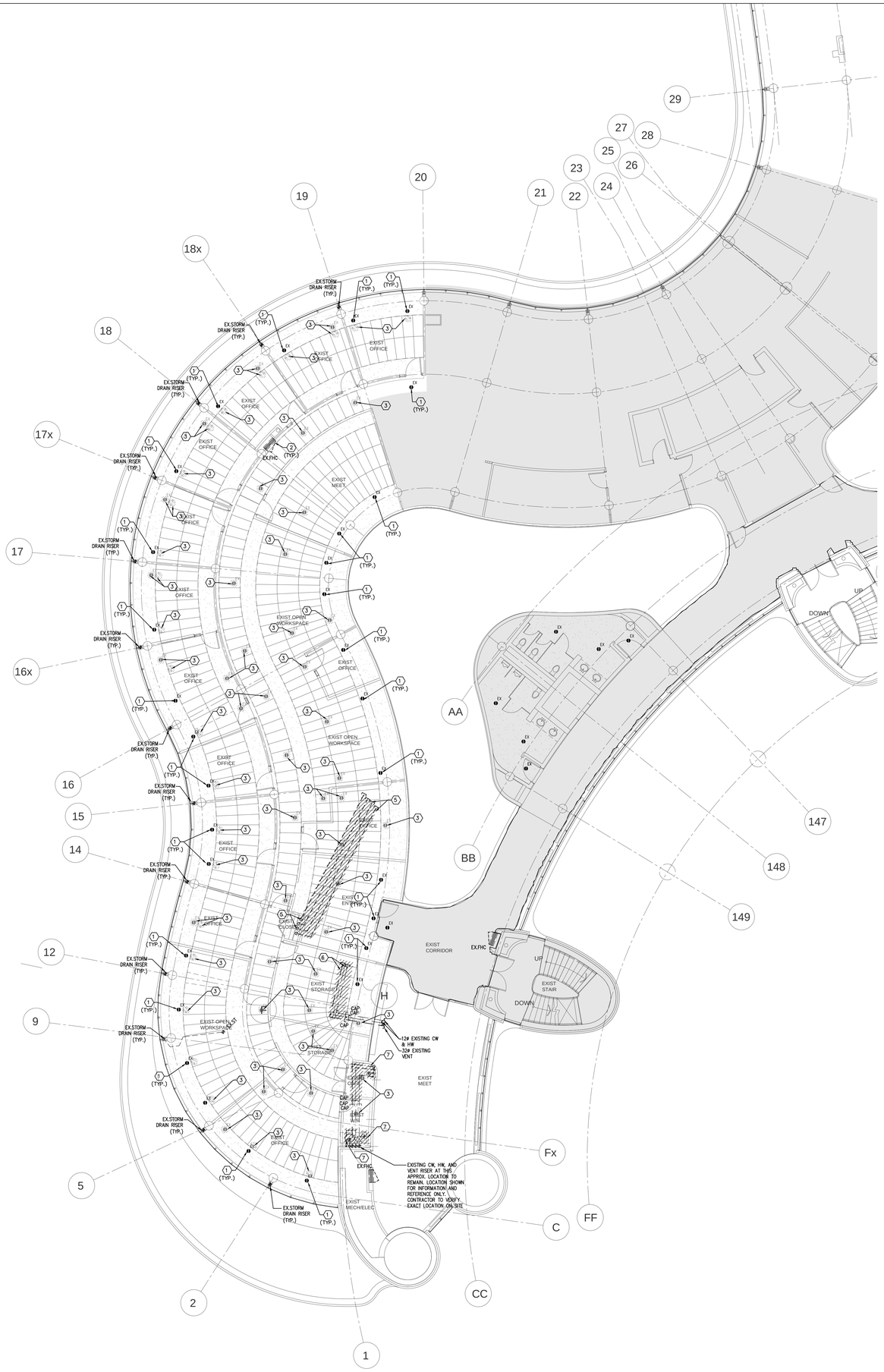
SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL GROUND FLOOR AT BLOCK 'D' - PLUMBING & FIRE PROTECTION DEMOLITION PLAN

SHEET NUMBER:

M-300



GENERAL NOTES

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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.
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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.

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. CUT SPRINKLER BRANCH PIPE BACK TO MAIN. (TYPICAL)
4. EXISTING SINK AT THIS LOCATION AS SHOWN TO BE REMOVED IN ITS ENTIRETY. CUT ASSOCIATED CW, HW, AND SAN. VENT BACK TO CEILING SPACE. REMOVE EXISTING SANITARY DRAIN IN CEILING OF FLOOR BELOW.
5. EXISTING ABANDONED PLUMBING AND DRAINAGE PIPING TO BE REMOVED IN ITS ENTIRETY. CAP PLUMBING PIPING IN CEILING OF FLOOR BELOW. (TYPICAL)
6. EXISTING PLUMBING PIPING TO BE REMOVED AS SHOWN. CAP PIPING AS REQUIRED.
7. EXISTING PLUMBING FIXTURE TO BE REMOVED IN ITS ENTIRETY. ASSOCIATED CW & HW LINES AND SAN. VENT PIPE BACK TO CEILING SPACE. REMOVE EXISTING SANITARY DRAIN IN CEILING OF FLOOR BELOW.

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.

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LICENSED PROFESSIONAL ENGINEER
G. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region
PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023
PROJECT:	

TENDER # RFTC-652-22

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100

DRAWN BY: K.J/G.P.Y.

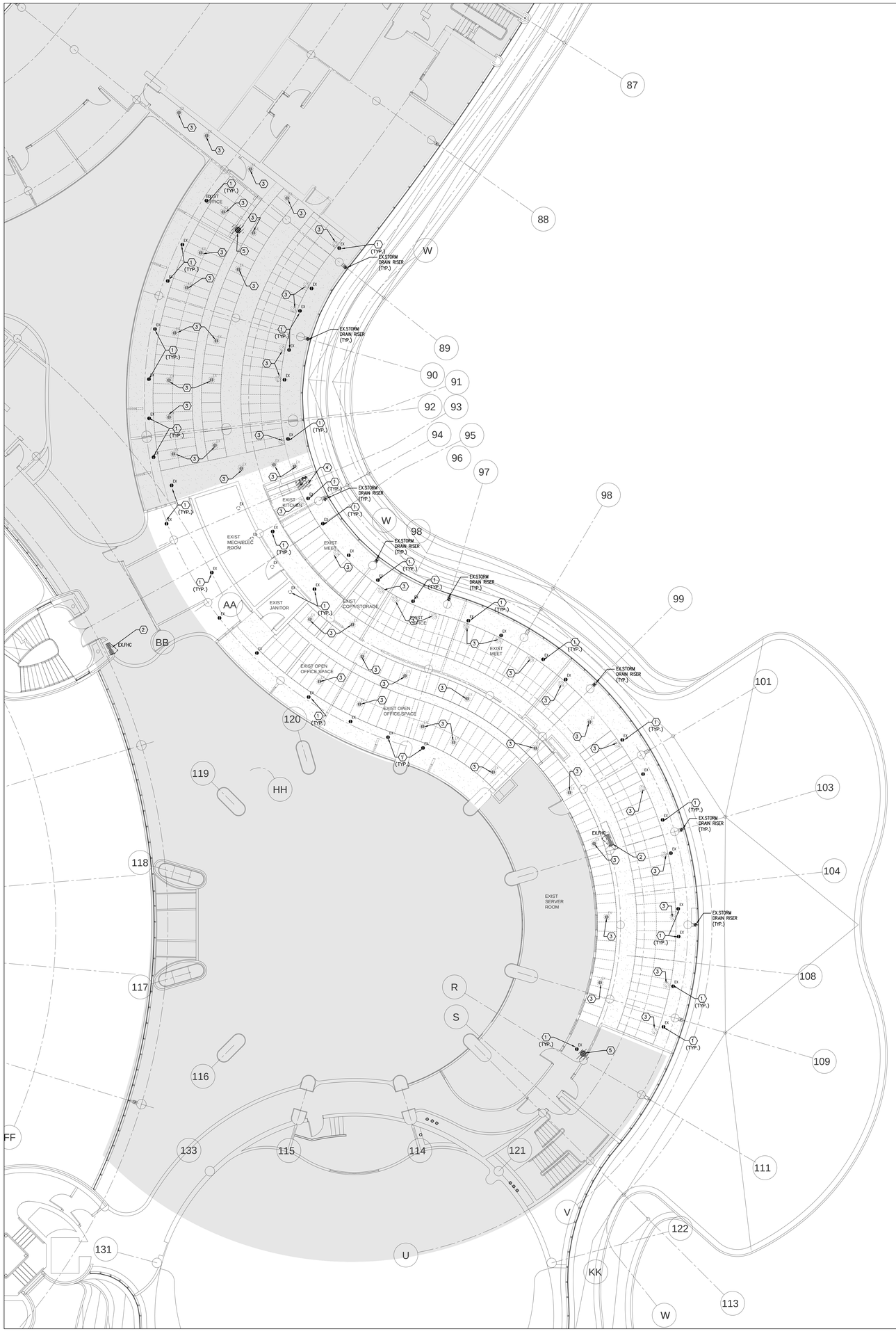
SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL SECOND FLOOR AT BLOCK 'A' - PLUMBING & FIRE PROTECTION DEMOLITION PLAN

SHEET NUMBER:

M-301



GENERAL NOTES

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12. ALL SPRINKLER WORK SHALL BE DONE AS PER NFPA 13.

DRAWING NOTES

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2. EXISTING FIRE HOSE CABINET C/W 22 METER LONG FIRE HOSE TO REMAIN. (TYPICAL)
3. EXISTING SPRINKLER HEAD TO BE REMOVED. CUT SPRINKLER BRANCH PIPE BACK TO MAIN. (TYPICAL)
4. EXISTING SINK TO BE REMOVED FOR REPLACEMENT. ASSOCIATED CW & HW LINES AND SAN. VENT PIPE BACK TO CEILING SPACE AND MAKE GOOD FOR FUTURE CONNECTION. CUT EXISTING SAN. DRAIN BACK TO FINISHED WALL.
5. REMOVE EXISTING FIRE EXTINGUISHER AND SAVE SAFELY ON SITE FOR RELOCATION.

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.

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LICENSED PROFESSIONAL ENGINEER
G. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100

DRAWN BY: K.J/G.P.Y.

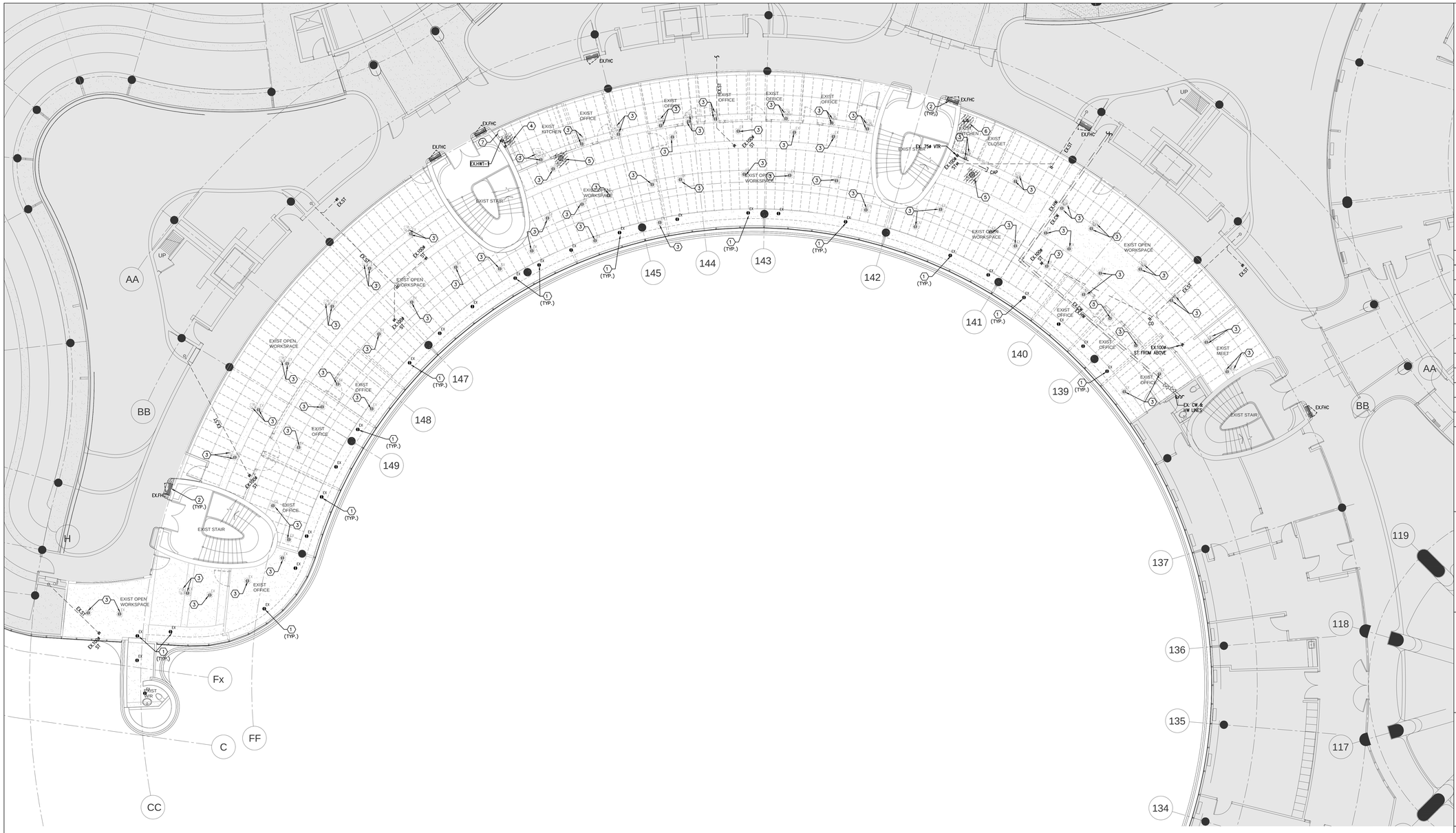
SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL THIRD FLOOR AT BLOCK 'B' & 'C' - PLUMBING & FIRE PROTECTION DEMOLITION PLAN

SHEET NUMBER:

M-302



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5. REMOVE EXISTING FIRE EXTINGUISHER & CABINET AND SAVE SAFELY ON SITE FOR RELOCATION.
6. EXISTING SINK AT THIS LOCATION AS SHOWN TO BE REMOVED IN ITS ENTIRETY. CUT ASSOCIATED CW, HW, AND SAN. VENT BACK TO CEILING SPACE. REMOVE EXISTING SANITARY DRAIN IN CEILING OF FLOOR BELOW.
7. EXISTING ELECTRICAL HOT WATER TANK AT THIS LOCATION AS SHOWN TO REMAIN.

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LICENSED PROFESSIONAL ENGINEER
G. G. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region
PROPERTY SERVICES

DEPARTMENT: BUILDING & FACILITIES
FLOOR: GROUND, 2ND, 3RD, 4TH
BASE DATE: 11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

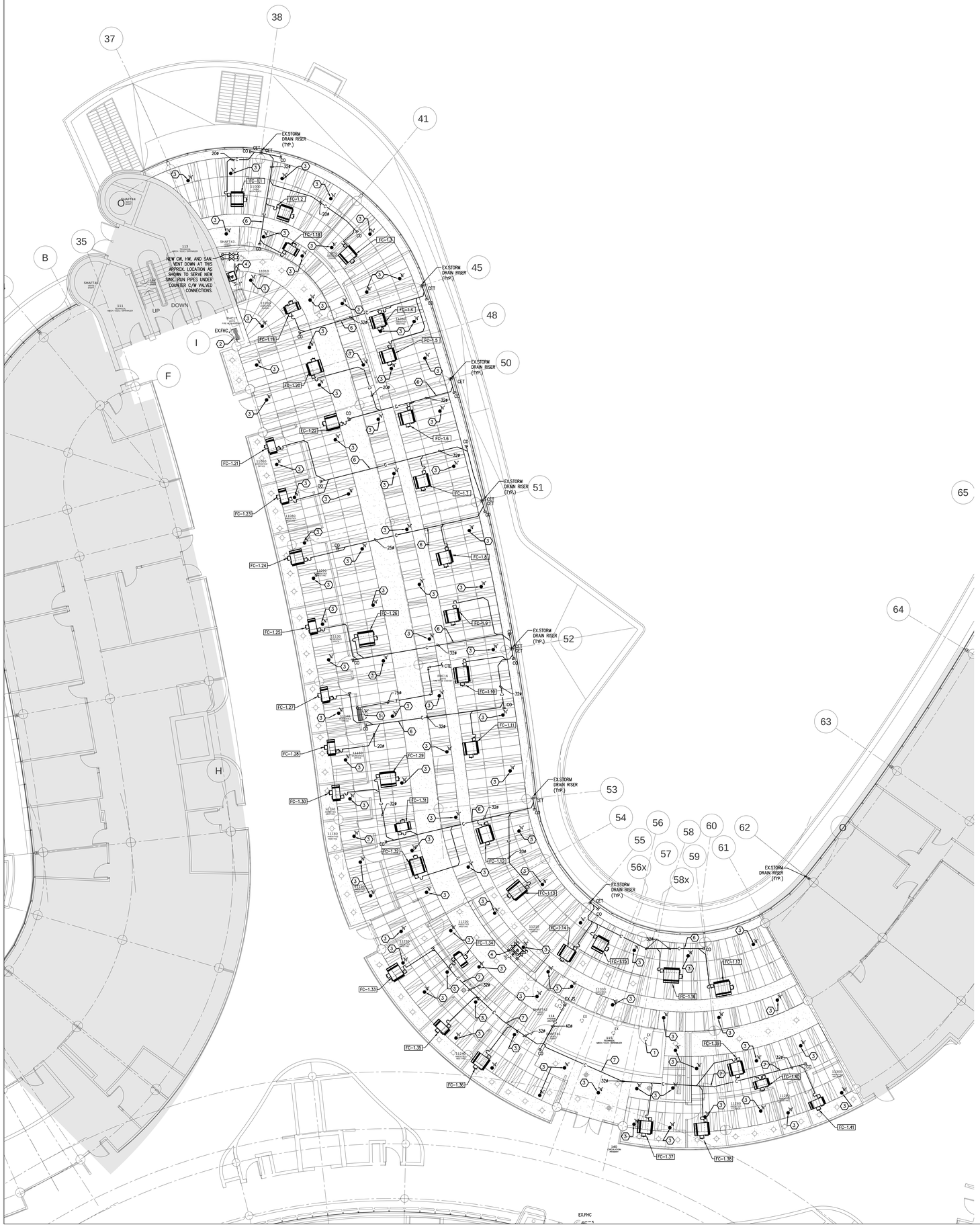
SCALE: 1:100
DRAWN BY: K.J/G.P.Y.
SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL FOURTH FLOOR AT BLOCK 'A' & 'B' - PLUMBING & FIRE PROTECTION DEMOLITION PLAN

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.
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. PROVIDE NEW SPRINKLER HEAD AT THIS LOCATION AS SHOWN.
4. PROVIDE NEW SINK AT THIS LOCATION AS SHOWN. PROVIDE NEW CW & HW LINES, AND SAN. VENT DOWN INSIDE WALL TO SERVE NEW KITCHEN SINK C/W VALVED CONNECTIONS UNDER COUNTER. NEW DRAIN LINE DN AND CONNECT TO EXISTING SANITARY DRAIN LINE IN CEILING OF FLOOR BELOW. COORDINATE EXACT SAN. DRAIN TIE-IN POINT ON SITE.
5. RELOCATE EXISTING FIRE HOSE CABINET TO THIS LOCATION AS SHOWN. EXTEND AND MODIFY 75ø FIRE LINE TO CONNECT TO FIRE HOSE CABINET. FIRE LINE SHALL BE INSTALLED AS HIGH AS POSSIBLE.
6. CONNECT NEW CONDENSATE DRAIN PIPE TO NEAREST EXISTING STORM DRAIN PIPING IN CEILING SPACE AT THIS APPROXIMATE LOCATION. PIPE SHALL BE CONNECTED TO VERTICALLY C/W Y-FITTING. COORDINATE EXACT TIE-IN POINT AND ROUTING ON SITE TO AVOID STRUCTURAL, ELECTRICAL AND MECHANICAL COMPONENTS IN CEILING SPACE. (TYPICAL)
7. PROVIDE NEW CONDENSATE DRAIN AND TERMINATE OVER EXISTING JANITOR SINK. COORDINATE EXACT PIPING ROUTE ON SITE TO AVOID STRUCTURAL, ELECTRICAL AND MECHANICAL COMPONENTS IN CEILING SPACE. (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.

SUBMISSION	DATE	DESCRIPTION
6	2024-09-18	ISSUED FOR CONSTRUCTION
5	2024-07-23	ISSUED AS PER ADDENDUM M-2
4	2024-07-15	ISSUED AS PER ADDENDUM M-1
3	2024-05-24	ISSUED FOR PERMIT/TENDER
2	2024-04-17	ISSUED FOR 90% PROGRESS REVIEW
1	2024-01-30	ISSUED FOR 60% PROGRESS REVIEW

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email: engineering
@gpyengineering.com

LICENSED PROFESSIONAL ENGINEER
G.P. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100

DRAWN BY: K.J/G.P.Y.

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL GROUND FLOOR AT BLOCK 'D' - 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.
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.

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 SPRINKLER HEAD AT THIS LOCATION AS SHOWN. CONTRACTOR TO COORDINATE WORK WITH OTHER TRADE TO ENSURE THAT ACCESS TO FAN COIL UNIT IS NOT OBSTRUCTED BY SPRINKLER HEAD AND BRANCH LINE. (TYPICAL FOR ALL)
4. PROVIDE NEW SINK AT THIS LOCATION AS SHOWN. PROVIDE NEW CW & HW LINES, AND SAN. VENT DOWN INSIDE WALL TO SERVE NEW KITCHEN SINK C/W VALVED CONNECTIONS UNDER COUNTER. NEW DRAIN LINE TO BE CONNECTED TO EXISTING SANITARY DRAIN LINE IN FINISHED WALL. COORDINATE EXACT SAN. DRAIN TIE-IN POINT ON SITE.
5. CONNECT NEW CONDENSATE DRAIN PIPE TO NEAREST EXISTING STORM DRAIN PIPING IN CEILING SPACE AT THIS APPROXIMATE LOCATION. PIPE SHALL BE CONNECTED TO VERTICALLY C/W Y-FITTING. COORDINATE EXACT TIE-IN POINT AND ROUTING ON SITE TO AVOID STRUCTURAL, ELECTRICAL AND MECHANICAL COMPONENTS IN CEILING SPACE. (TYPICAL)
6. EXISTING CONDENSATE DRAIN LINE IN CEILING SPACE TO REMAIN.

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.

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LICENSED PROFESSIONAL ENGINEER
G.P. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region
PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100

DRAWN BY: K.J/G.P.Y.

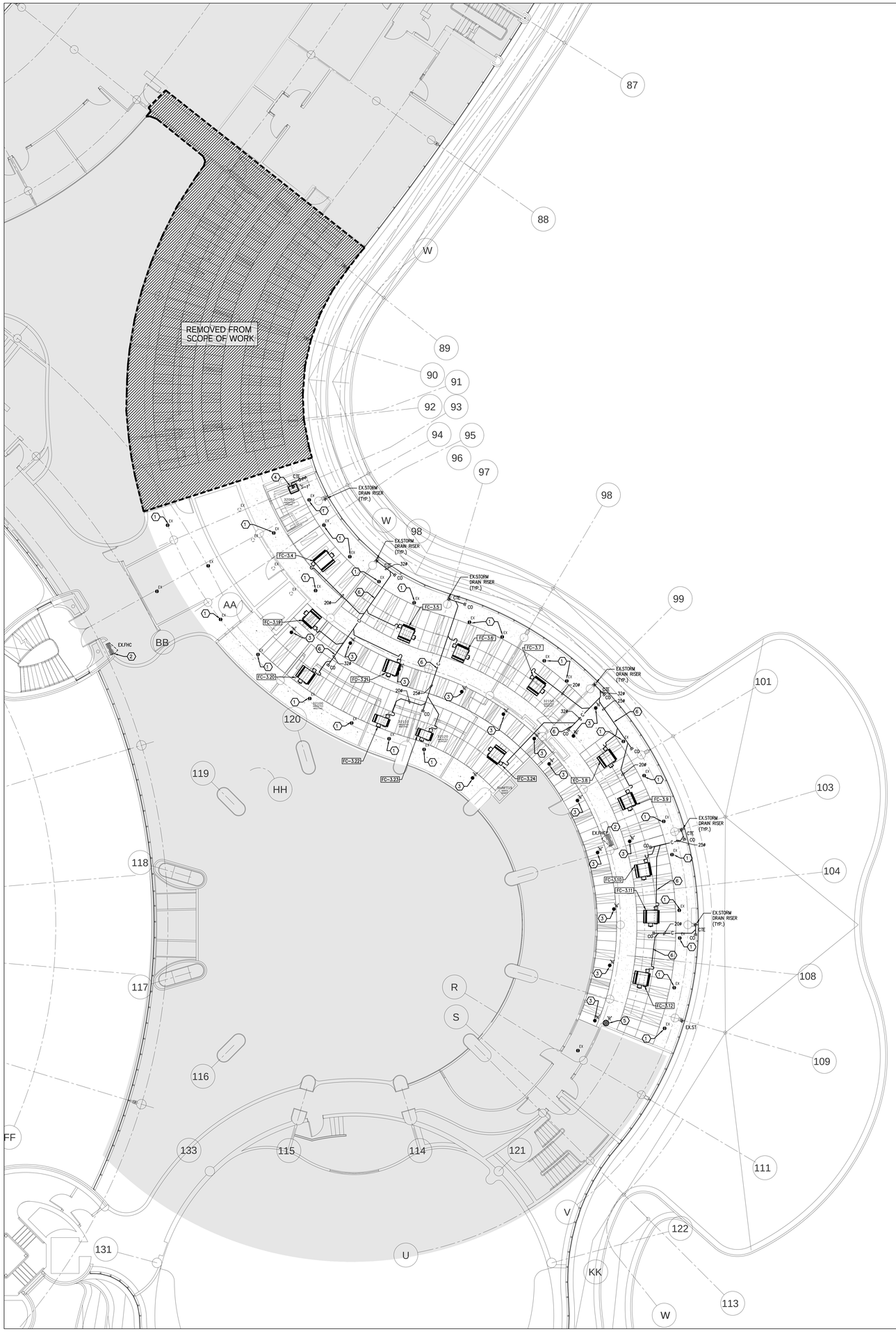
SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL SECOND FLOOR AT BLOCK 'A' - PLUMBING & FIRE PROTECTION NEW LAYOUT

SHEET NUMBER:

M-305



GENERAL NOTES

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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.
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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 SPRINKLER HEAD AT THIS LOCATION AS SHOWN. CONTRACTOR TO COORDINATE WORK WITH OTHER TRADE TO ENSURE THAT ACCESS TO FAN COIL UNIT IS NOT OBSTRUCTED BY SPRINKLER HEAD AND BRANCH LINE. (TYPICAL FOR ALL)
4. PROVIDE NEW SINK AT THIS LOCATION AS SHOWN. PROVIDE NEW CW & HW LINES, AND SAN. VENT DOWN INSIDE WALL TO SERVE NEW KITCHEN SINK C/W VALVED CONNECTIONS UNDER COUNTER. NEW DRAIN LINE TO BE CONNECTED TO EXISTING SANITARY DRAIN LINE IN FINISHED WALL. COORDINATE EXACT SAN. DRAIN TIE-IN POINT ON SITE.
5. RELOCATE EXISTING FIRE EXTINGUISHER TO THIS LOCATION AS SHOWN.
6. CONNECT NEW CONDENSATE DRAIN PIPE TO NEAREST EXISTING STORM DRAIN PIPING IN CEILING SPACE AT THIS APPROXIMATE LOCATION. PIPE SHALL BE CONNECTED TO VERTICALLY C/W Y-FITTING. COORDINATE EXACT TIE-IN POINT AND ROUTING ON SITE TO AVOID STRUCTURAL, ELECTRICAL AND MECHANICAL COMPONENTS IN CEILING SPACE. (TYPICAL)

NOTES

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LICENSED PROFESSIONAL ENGINEER
G. G. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100

DRAWN BY: K.J/G.P.Y.

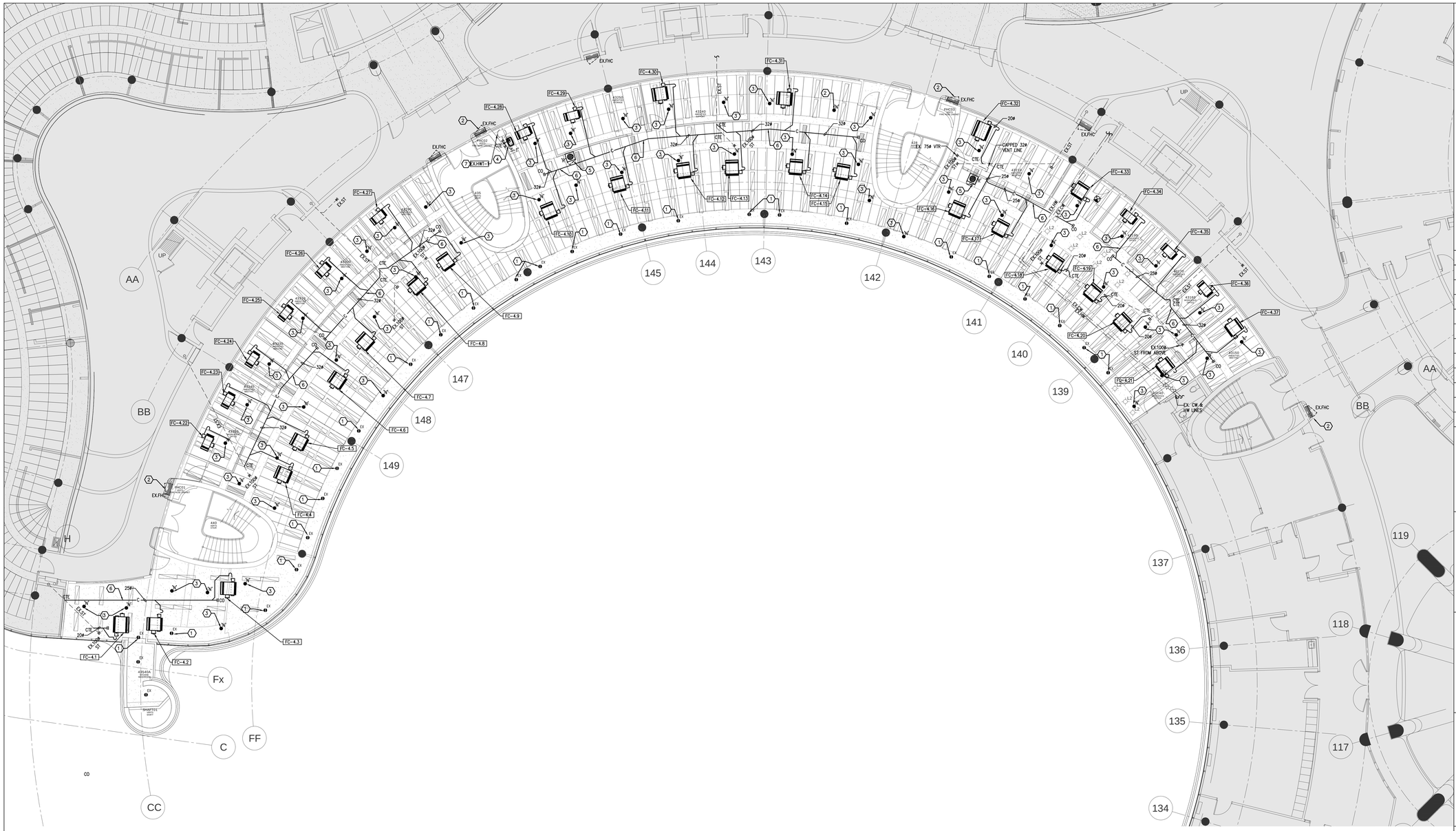
SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL THIRD FLOOR AT BLOCK 'B' & 'C' - PLUMBING & FIRE PROTECTION NEW LAYOUT

SHEET NUMBER:

M-306


AA
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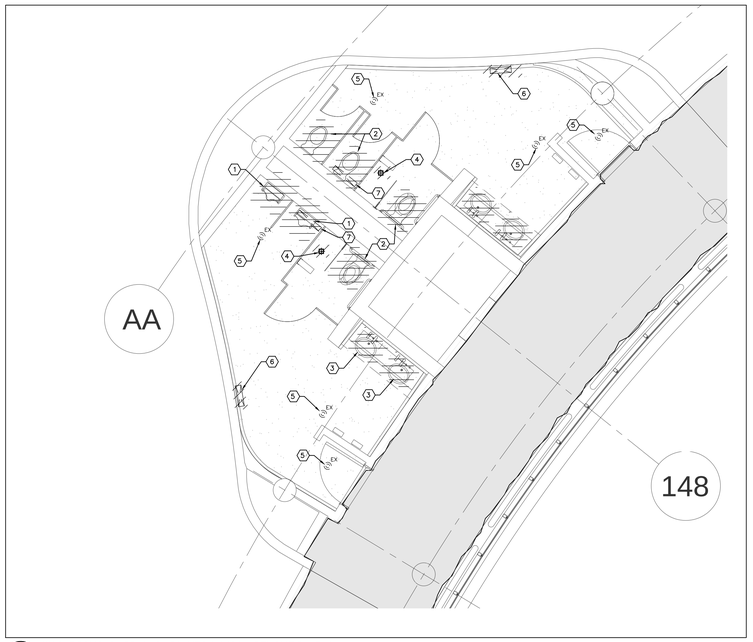
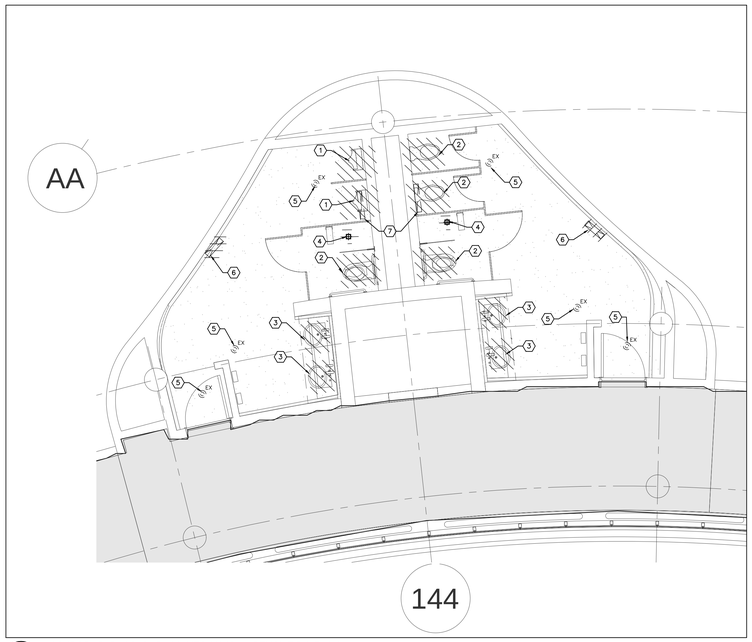


1 M-308 WASHROOMS 2-88 & 2-89 MECHANICAL DEMOLITION PLAN
SCALE: 1:50



2 M-308 WASHROOMS 2-90 & 2-91 MECHANICAL DEMOLITION PLAN
SCALE: 1:50

3 M-308 WASHROOMS 2-92 & 2-93 MECHANICAL DEMOLITION PLAN
SCALE: 1:50

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.
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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. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING DRYWALL CEILING TO FACILITATE REMOVAL OF MECHANICAL AND ELECTRICAL SERVICES OUTLINED IN SCOPE OF WORKS.
8. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND ENGINEER. PROVIDE ACCESS PANELS/DOORS AS REQUIRED.
9. MECHANICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.

DRAWING NOTES

1. EXISTING URINAL C/W ASSOCIATED FLUSH VALVE TO BE REMOVED. EXISTING PLUMBING & DRAINAGE PIPING TO REMAIN FOR NEW FIXTURE INSTALLATION. (TYPICAL)
2. EXISTING WATER CLOSET C/W ASSOCIATED FLUSH VALVE, FLOOR FLANGE AND CARRIER TO BE REMOVED. EXISTING PLUMBING & DRAINAGE PIPING TO REMAIN FOR NEW FIXTURE INSTALLATION. (TYPICAL)
3. EXISTING LAVATORY C/W ASSOCIATED FAUCET TO BE REMOVED. EXISTING PLUMBING & DRAINAGE PIPING TO REMAIN FOR NEW FIXTURE INSTALLATION. (TYPICAL)
4. EXISTING FLOOR DRAIN TO BE REMOVED. EXISTING DRAINAGE PIPING TO REMAIN FOR NEW FLOOR DRAIN INSTALLATION. (TYPICAL)
5. EXISTING SPRINKLER HEAD TO REMAIN. (TYPICAL)
6. EXISTING SUPPLY AIR GRILLES TO BE REMOVED. EXISTING CONNECTED DUCTWORK TO REMAIN FOR INSTALLATION OF NEW SUPPLY AIR SLOT. (TYPICAL)
7. EXISTING EXHAUST AIR GRILLES TO BE REMOVED. EXISTING CONNECTED DUCTWORK TO REMAIN FOR INSTALLATION OF NEW EXHAUST GRILLES. (TYPICAL)

SUBMISSION	DATE	DESCRIPTION
6	2024-09-18	ISSUED FOR CONSTRUCTION
5	2024-07-23	ISSUED AS PER ADDENDUM M-2
4	2024-07-15	ISSUED AS PER ADDENDUM M-1
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2	2024-04-17	ISSUED FOR 90% PROGRESS REVIEW
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LICENSED PROFESSIONAL ENGINEER
GEO. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region
PROPERTY SERVICES

DEPARTMENT: BUILDING & FACILITIES
FLOOR: GROUND, 2ND, 3RD, 4TH
BASE DATE: 11-28-2023
PROJECT:

TENDER # RFTC-652-22

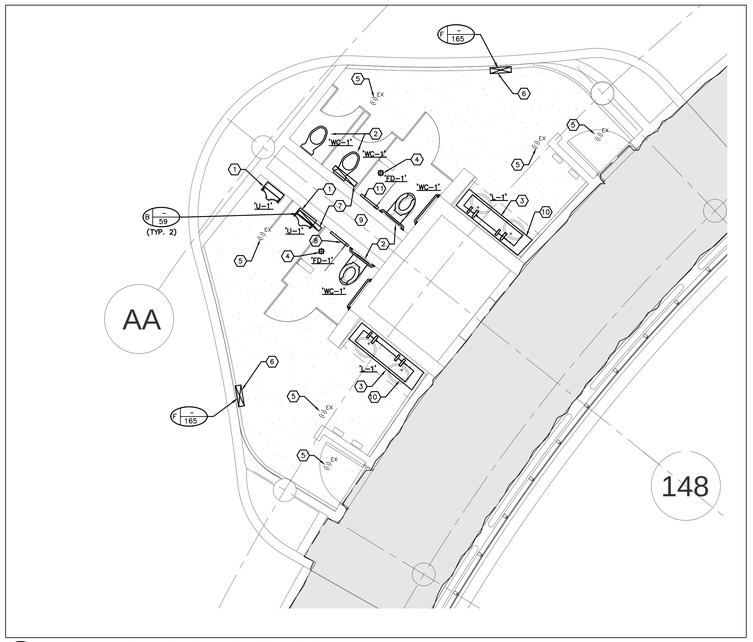
YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100
DRAWN BY: K.J/G.P.Y.
SUBMITTED TO: MUNICIPALITY OF YORK
SHEET TITLE:

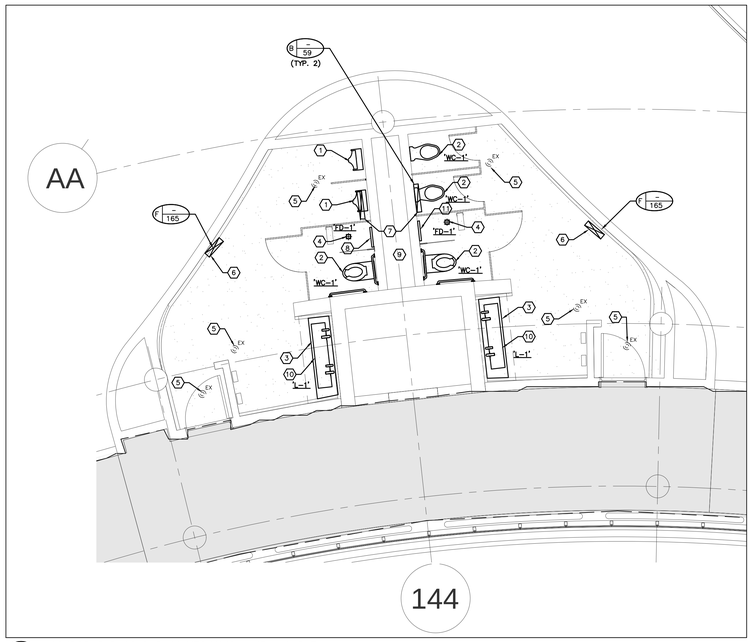
SECOND FLOOR WASHROOMS - MECHANICAL DEMOLITION PLAN

SHEET NUMBER:

M-308



1 M-309 WASHROOMS 2-88 & 2-89 MECHANICAL NEW LAYOUT
SCALE: 1:50



2 M-309 WASHROOMS 2-90 & 2-91 MECHANICAL NEW LAYOUT
SCALE: 1:50

3 M-309 WASHROOMS 2-92 & 2-93 MECHANICAL NEW LAYOUT
SCALE: 1:50

GENERAL NOTES

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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. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING DRYWALL CEILING TO FACILITATE REMOVAL OF MECHANICAL AND ELECTRICAL SERVICES OUTLINED IN SCOPE OF WORKS.
8. ENSURE THAT ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND ENGINEER, PROVIDE ACCESS PANELS/DOORS AS REQUIRED.
9. MECHANICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
10. PROVIDE NEW ISOLATION VALVES FOR ALL PLUMBING FIXTURES.

DRAWING NOTES

1. PROVIDE NEW URINAL 'U-1' C/W ASSOCIATED FLUSH VALVE AND PIPING. MODIFY/EXTEND EXISTING COLD WATER SUPPLY, SANITARY DRAIN AND SANITARY VENT PIPING TO SUIT INSTALLATION OF NEW FIXTURE. PROVIDE NEW CLEAN-OUT. (TYPICAL)
2. PROVIDE NEW WATER CLOSET 'WC-1' C/W ASSOCIATED FLUSH VALVE, CARRIER AND PIPING. MODIFY/EXTEND EXISTING COLD WATER SUPPLY, SANITARY DRAIN AND SANITARY VENT PIPING TO SUIT INSTALLATION OF NEW FIXTURE. PROVIDE NEW FLOOR FLANGE AND GASKETS AS REQUIRED. (TYPICAL)
3. PROVIDE NEW LAVATORY 'L-1' C/W ASSOCIATED FAUCET AND SOAP DISPENSER. MODIFY/EXTEND EXISTING HOT & COLD WATER SUPPLY, SANITARY DRAIN AND SANITARY VENT PIPING TO SUIT INSTALLATION OF NEW FIXTURE. PROVIDE NEW SHUT-OFF VALVES AND P-TRAP. P-TRAP SHALL BE ADJUSTABLE AND HAVE CLEANOUT PLUG ON THE BOTTOM OF THE TRAP. (TYPICAL). LAVATORY SHALL BE ONLY INSTALLED BY LOYAR TRAINED PERSONNEL. FAUCET AND HAND SOAP DISPENSER TO BE INSTALLED BY MECHANICAL TRADES AND ELECTRICAL CONNECTION BY DIV. 16. (SEE ADDITIONAL NOTES BELOW).
4. PROVIDE NEW FLOOR DRAIN 'FD-1' C/W BODY & ADJUSTABLE STRAINER COVER AND CONNECT TO EXISTING DRAIN PIPING. FLOOR DRAIN TO BE FLUSHED MOUNT WITH NEW FINISH FLOOR LEVEL. SIZE OF FLOOR DRAIN SAME AS EXISTING. (TYPICAL)
5. EXISTING SPRINKLER HEAD TO REMAIN. (TYPICAL)
6. NEW ARCHITECTURAL PLENUM SLOT DIFFUSER, MODIFY/EXTEND EXISTING DUCTWORK TO SUIT INSTALLATION OF NEW DIFFUSER. RE-BALANCE TO NEW AIR QUANTITY AS INDICATED. SLOT DIFFUSER BY ARCHITECTURAL DIVISION (TYPICAL)
7. PROVIDE NEW TYPE 'B' EXHAUST AIR GRILLES C/W FACE ADJUSTABLE BALANCING DAMPER. PRIOR TO ORDERING, VERIFY EXACT SIZE OF GRILLE WITH DUCT FLANGE ON SITE. MODIFY/EXTEND EXISTING DUCTWORK AS REQUIRED. (TYPICAL)
8. PROVIDE NEW 600x600 ACCESS PANEL ON WALL FOR ACCESSING MECHANICAL CHASE AREA FOR MAINTENANCE PURPOSES. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS. EXACT LOCATION TO BE VERIFIED ON SITE. (TYPICAL)
9. PROVIDE A SEPARATE PRICE FOR REPLACEMENT OF ALL SANITARY PIPING BACK TO SANITARY RISERS WITHIN THE MECHANICAL CHASE AREA. PRICE TO INCLUDE PROVIDING ADDITIONAL 6 METERS OF PIPING.
10. PROVIDE NEW HOT & COLD WATER HOSE BIBB UNDER LAVATORY
11. PROVIDE NEW 300x450 ACCESS PANEL ON WALL FOR MECHANICAL SERVICES. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS. EXACT LOCATION TO BE VERIFIED ON SITE. (TYPICAL)

NOTES

PRIOR TO INSTALLATION OF LAVATORY FAUCET AND SOAP DISPENSER, CONTRACTOR SHALL PROVIDE A SKETCH SHOWING PIPING ARRANGEMENT, WIRING ROUTING AND CLEARANCES FOR ACCESSING EQUIPMENT FOR MAINTENANCE OR SERVICING. THE SKETCH SHALL BE SUBMITTED TO YORK REGION'S PM FOR REVIEW AND APPROVAL. WORK SHALL NOT PROCEED WITHOUT YORK REGION'S PM APPROVAL AND DIRECTIONS.

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@gpyengineering.com

LICENSED PROFESSIONAL ENGINEER
GUY YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region
PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100

DRAWN BY: K.J/G.P.Y.

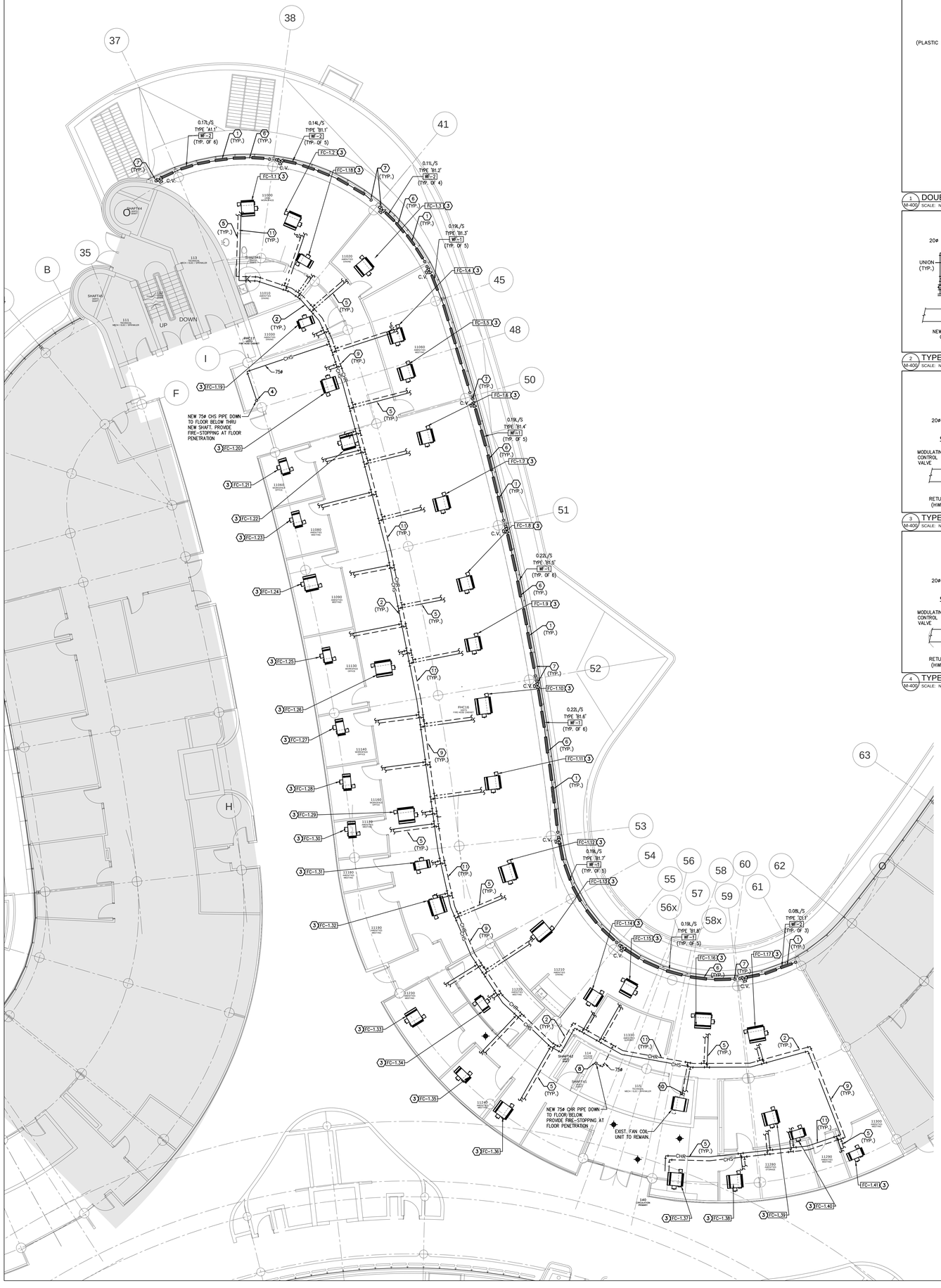
SUBMITTED TO: MUNICIPALITY OF YORK

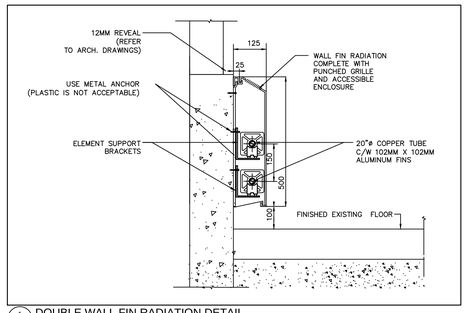
SHEET TITLE:

SECOND FLOOR WASHROOMS - MECHANICAL NEW LAYOUT

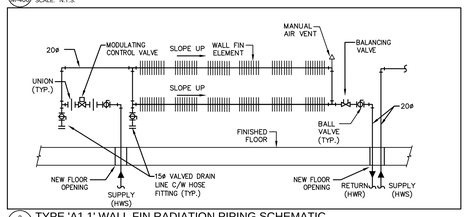
SHEET NUMBER:

M-309

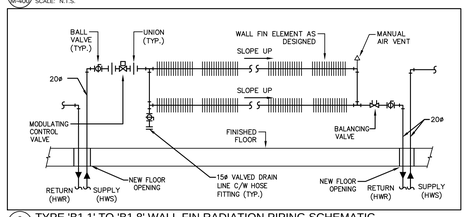




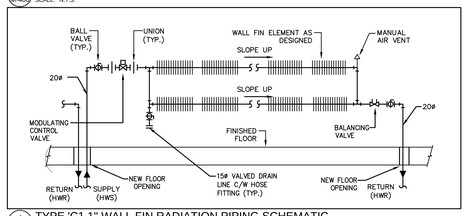
1 DOUBLE WALL FIN RADIATION DETAIL
M-400 SCALE: N.T.S.



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



3 TYPE 'B1.1' TO 'B1.8' WALL FIN RADIATION PIPING SCHEMATIC
M-400 SCALE: N.T.S.



4 TYPE 'C1.1" WALL FIN RADIATION PIPING SCHEMATIC
M-400 SCALE: N.T.S.

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCES 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)

DRAWING NOTES

1. NEW FLOOR MOUNTED WALL-FIN CABINET RADIATOR C/W ENCLOSURE. PROVIDE NEW HEATING WATER PIPE AND CONNECT TO NEW HEATING WATER PIPE IN BASEMENT FLOOR CEILING SPACE. REFER TO DETAIL NO. 3 & 4/M-104. (TYPICAL)
2. AT EACH CHANGE OF DIRECTION ON CHILLED WATER PIPING CONTRACTOR TO PROVIDE OFFSET AS PER MECHANICAL DETAIL NO. 10/M-104. (TYPICAL)
3. NEW FAN COIL UNIT IN CEILING SPACE. INSTALL UNIT TIGHT TO CEILING SLAB AS HIGH AS POSSIBLE. PROVIDE UNIT SUPPORTS AS REQUIRED. (TYPICAL)
4. DROP NEW 75ø CHILLED WATER SUPPLY PIPE DOWN TO CEILING SPACE ON FLOOR BELOW AND CONNECT TO EXISTING SERVICES. REFER TO BASEMENT MECHANICAL NEW LAYOUT. EXACT LOCATION TO BE CONFIRMED ON SITE.
5. PROVIDE NEW 25ø CHILLED WATER SUPPLY/RETURN WATER PIPE TO NEW FAN COIL UNIT C/W ISOLATION VALVE, BALANCING VALVE, CONTROL VALVE AND CONTROL WIRING. (TYPICAL)
6. NEW WALL FIN RAD ENCLOSURE SHALL BE CONTINUOUS FROM WALL TO WALL. PROVIDE END CAPS NEAR WALL AS REQUIRED. ENCLOSURE SHALL BE ACCESSIBLE AT ALL TIMES.
7. NEW 20ø HEATING SUPPLY/RETURN PIPE FROM NEW HEATING SUPPLY/RETURN PIPE MAIN LOCATED IN BASEMENT 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.
8. DROP NEW 75ø CHILLED WATER RETURN PIPE DOWN TO CEILING SPACE AND CONNECT TO EXISTING SERVICES. REFER TO BASEMENT 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. EXISTING FAN COIL UNIT TO REMAIN. PROVIDE NEW 25ø CHILLED WATER SUPPLY/RETURN WATER PIPE AND CONNECT TO EXISTING FAN COIL UNIT C/W ISOLATION VALVE, BALANCING VALVE, CONTROL VALVE AND CONTROL WIRING.
11. FOR MAIN CHILLED WATER SUPPLY AND RETURN PIPE SIZES, REFER TO SCHEMATIC DIAGRAM.

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE BASEMENT 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.

FAN COIL PLACEMENT & PIPING INSTALLATION NOTES:

CONTRACTOR TO INFORM YORK REGION PROJECT MANAGER, ARCHITECT AND YORK REGION OPERATIONS TEAM AND SCHEDULE A MEETING ON SITE TO REVIEW AND SIGN-OFF ON ALL FAN COIL UNIT PLACEMENT AND PIPE INSTALLATIONS. ALL MECHANICAL FAN COIL UNITS TO BE INSTALLED IN A WAY WHERE NO INTERFERENCES (IE. SPRINKLER PIPE, CHILLED/ HEATING WATER LINES, ETC.) ARE NOT RUNNING UNDER THE UNIT. THIS IS TO ALLOW FOR THE MOTOR TO BE REPLACE IN FUTURE MAINTENANCE. CONTRACTOR TO ENSURE ADEQUATE SPACE IS PROVIDED TO ALLOW FOR REMOVAL & RE-INSTATEMENT OF FAN COIL UNIT FOR REGULAR MAINTENANCE/ SERVICING AND OR UNIT REPLACEMENT. FAILURE TO HAVE A MEETING TO SIGN-OFF ON THE INSTALLATION, THE CONTRACTOR IS TO BEAR ALL COST FOR THE REWORK.

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LICENSED PROFESSIONAL ENGINEER
G.P. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region
PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023
PROJECT:	

TENDER # RFTC-652-22

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

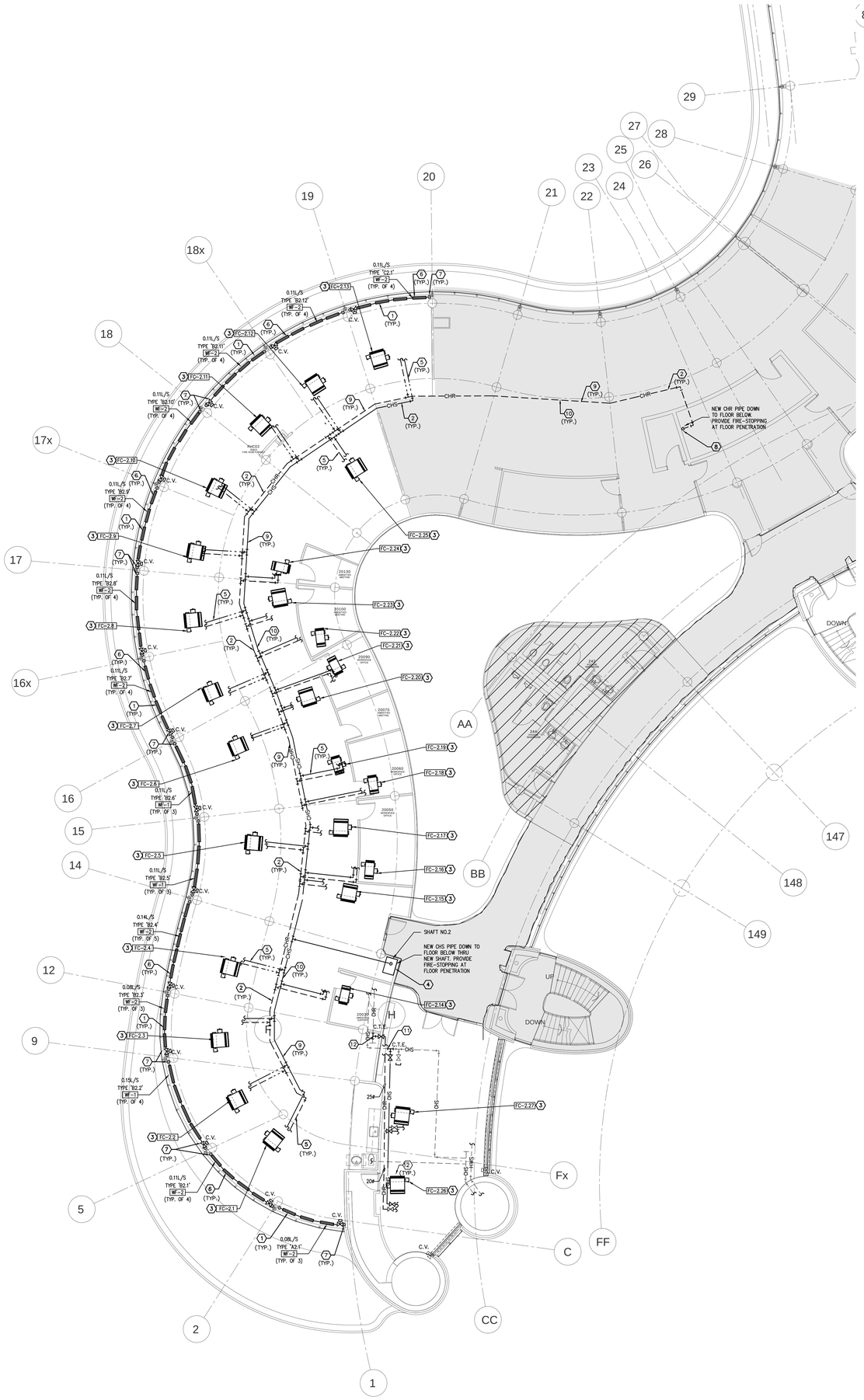
SCALE:	1:100
DRAWN BY:	K.J/G.P.Y.
SUBMITTED TO:	MUNICIPALITY OF YORK

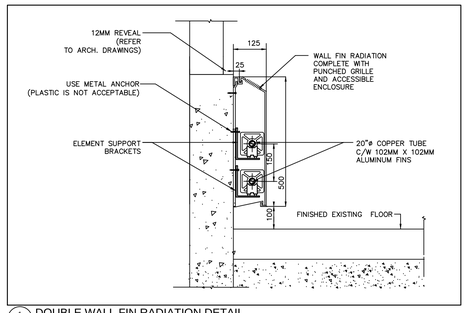
SHEET TITLE:

PARTIAL GROUND FLOOR AT BLOCK 'D' - HYDRONIC NEW LAYOUT

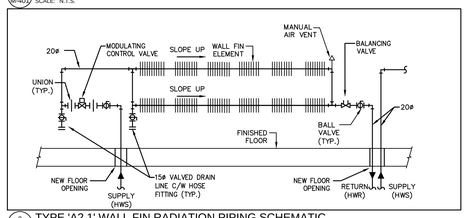
SHEET NUMBER:

M-400

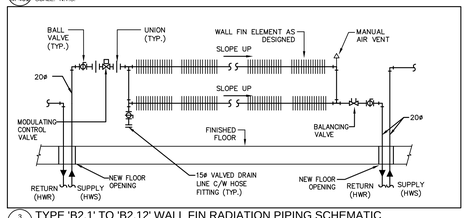




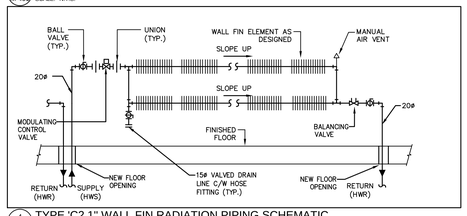
1 M-401 SCALE: N.T.S. DOUBLE WALL FIN RADIATION DETAIL



2 M-401 SCALE: N.T.S. TYPE 'A2.1' WALL FIN RADIATION PIPING SCHEMATIC



3 M-401 SCALE: N.T.S. TYPE 'B2.1' TO 'B2.12' WALL FIN RADIATION PIPING SCHEMATIC



4 M-401 SCALE: N.T.S. TYPE 'C2.1" WALL FIN RADIATION PIPING SCHEMATIC

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCES 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)

DRAWING NOTES

1. NEW FLOOR MOUNTED WALL-FIN CABINET RADIATOR C/W ENCLOSURE. PROVIDE NEW HEATING WATER PIPE AND CONNECT TO NEW HEATING WATER PIPE IN GROUND FLOOR CEILING SPACE. REFER TO DETAIL NO. 3 & 4/M-104. (TYPICAL)
2. AT EACH CHANGE OF DIRECTION ON CHILLED WATER PIPING CONTRACTOR TO PROVIDE OFFSET AS PER MECHANICAL DETAIL NO. 10/M-104. (TYPICAL)
3. NEW FAN COIL UNIT IN CEILING SPACE. INSTALL UNIT TIGHT TO CEILING SLAB AS HIGH AS POSSIBLE. PROVIDE UNIT SUPPORTS AS REQUIRED. (TYPICAL)
4. DROP NEW CHILLED WATER SUPPLY PIPE DOWN TO GROUND FLOOR CEILING SPACE ON FLOOR BELOW AND CONNECT TO EXISTING SERVICES. REFER TO GROUND FLOOR MECHANICAL NEW LAYOUT. EXACT LOCATION TO BE CONFIRMED ON SITE.
5. PROVIDE NEW 25ø CHILLED WATER SUPPLY/RETURN WATER PIPE TO NEW FAN COIL UNIT C/W ISOLATION VALVE, BALANCING VALVE, CONTROL VALVE AND CONTROL WIRING. (TYPICAL)
6. NEW WALL FAN ENCLOSURE SHALL BE CONTINUOUS FROM WALL TO WALL. PROVIDE END CAPS NEAR WALL AS REQUIRED. ENCLOSURE SHALL BE ACCESSIBLE AT ALL TIMES.
7. NEW 20ø HEATING SUPPLY/RETURN PIPE FROM NEW HEATING SUPPLY/RETURN PIPE MAIN LOCATED IN GROUND 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.
8. DROP NEW CHILLED WATER RETURN PIPE DOWN TO GROUND FLOOR CEILING SPACE AND CONNECT TO EXISTING RISER AT ELECTRICAL ROOM. REFER TO GROUND 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. FOR MAIN CHILLED WATER SUPPLY AND RETURN PIPE SIZES, REFER TO SCHEMATIC DIAGRAM.
11. CONNECT NEW CHILLED WATER SUPPLY PIPE TO EXISTING SAME SERVICE PIPING AT THIS POINT AND MAKE GOOD INSULATION. PROVIDE NEW SHUT-OFF VALVE.
12. CONNECT NEW CHILLED WATER RETURN PIPE TO EXISTING SAME SERVICE PIPING AT THIS POINT AND MAKE GOOD INSULATION. PROVIDE NEW SHUT-OFF VALVE.

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE GROUND 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.

FAN COIL PLACEMENT & PIPING INSTALLATION NOTES:

CONTRACTOR TO INFORM YORK REGION PROJECT MANAGER, ARCHITECT AND YORK REGION OPERATIONS TEAM AND SCHEDULE A MEETING ON SITE TO REVIEW AND SIGN-OFF ON ALL FAN COIL UNIT PLACEMENT AND PIPE INSTALLATIONS. ALL MECHANICAL FAN COIL UNITS TO BE INSTALLED IN A WAY WHERE NO INTERFERENCES (IE. SPRINKLER PIPE, CHILLED/ HEATING WATER LINES, ETC.) ARE NOT RUNNING UNDER THE UNIT. THIS IS TO ALLOW FOR THE MOTOR TO BE REPLACE IN FUTURE MAINTENANCE. CONTRACTOR TO ENSURE ADEQUATE SPACE IS PROVIDED TO ALLOW FOR REMOVAL & RE-INSTATEMENT OF FAN COIL UNIT FOR REGULAR MAINTENANCE/ SERVICING AND OR UNIT REPLACEMENT. FAILURE TO HAVE A MEETING TO SIGN-OFF ON THE INSTALLATION, THE CONTRACTOR IS TO BEAR ALL COST FOR THE REWORK.

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LICENSED PROFESSIONAL ENGINEER G.G. YOUDELIS 2024/05/24 PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100

DRAWN BY: K.J/G.P.Y.

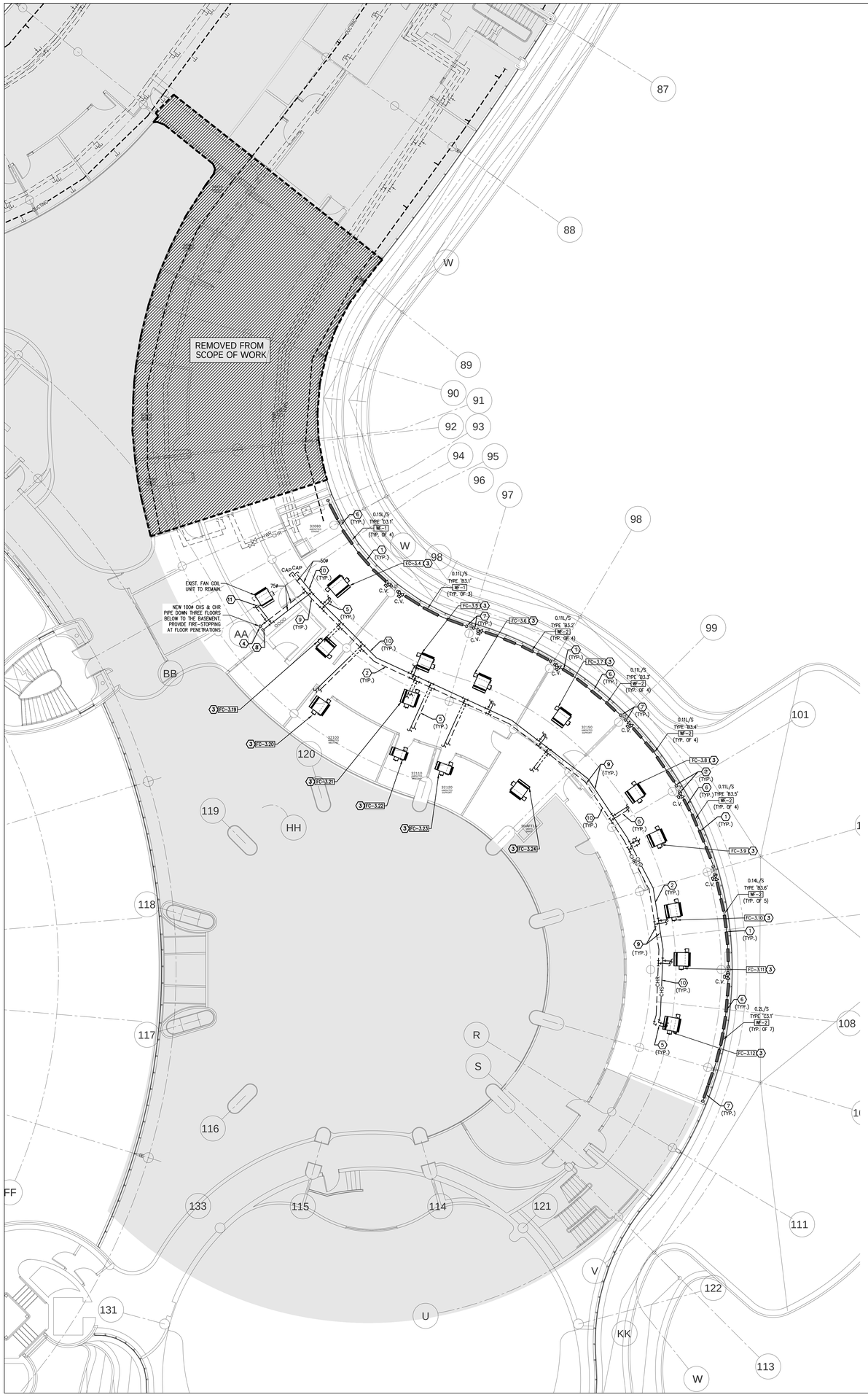
SUBMITTED TO: MUNICIPALITY OF YORK

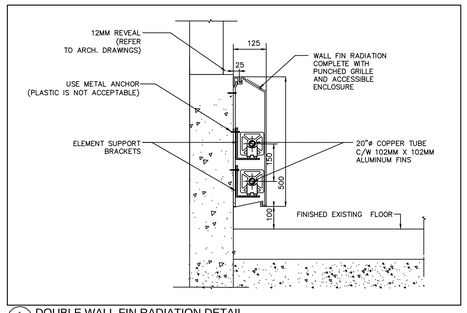
SHEET TITLE:

PARTIAL SECOND FLOOR AT BLOCK 'A' - HYDRONIC NEW LAYOUT

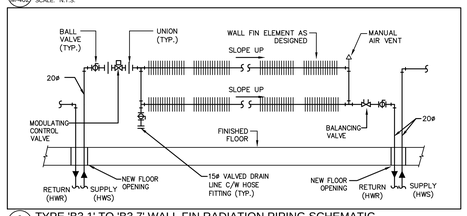
SHEET NUMBER:

M-401

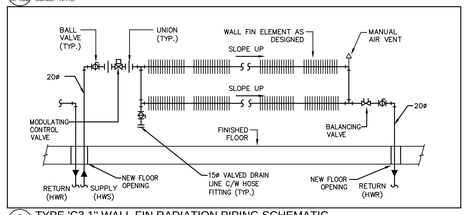




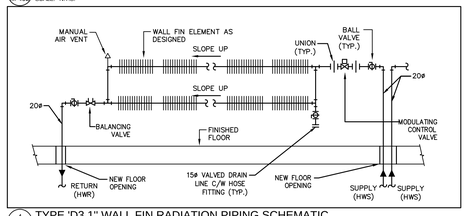
1 M-402 DOUBLE WALL FIN RADIATION DETAIL
SCALE: N.T.S.



2 M-402 TYPE 'B3.1' TO 'B3.7' WALL FIN RADIATION PIPING SCHEMATIC
SCALE: N.T.S.



3 M-402 TYPE 'C3.1" WALL FIN RADIATION PIPING SCHEMATIC
SCALE: N.T.S.



4 M-402 TYPE 'D3.1" WALL FIN RADIATION PIPING SCHEMATIC
SCALE: N.T.S.

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
2. ANY DISCREPANCES 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)

DRAWING NOTES

1. NEW FLOOR MOUNTED WALL-FIN CABINET RADIATOR C/W ENCLOSURE. PROVIDE NEW HEATING WATER PIPE AND CONNECT TO NEW HEATING WATER PIPE IN GROUND FLOOR CEILING SPACE. REFER TO DETAIL NO. 3 & 4/M-104. (TYPICAL)
2. AT EACH CHANGE OF DIRECTION ON CHILLED WATER PIPING CONTRACTOR TO PROVIDE OFFSET AS PER MECHANICAL DETAIL NO. 10/M-104. (TYPICAL)
3. NEW FAN COIL UNIT IN CEILING SPACE. INSTALL UNIT TIGHT TO CEILING SLAB AS HIGH AS POSSIBLE. PROVIDE UNIT SUPPORTS AS REQUIRED. (TYPICAL)
4. DROP NEW 100ø CHILLED WATER SUPPLY PIPE DOWN THREE FLOORS BELOW TO THE BASEMENT CEILING SPACE AND CONNECT TO EXISTING SERVICES. REFER TO BASEMENT FLOOR MECHANICAL NEW LAYOUT. EXACT LOCATION TO BE CONFIRMED ON SITE.
5. PROVIDE NEW 25ø CHILLED WATER SUPPLY/RETURN WATER PIPE TO NEW FAN COIL UNIT C/W ISOLATION VALVE, BALANCING VALVE, CONTROL VALVE AND CONTROL WIRING. (TYPICAL)
6. NEW WALL FIN RAD ENCLOSURE SHALL BE CONTINUOUS FROM WALL TO WALL. PROVIDE END CAPS NEAR WALL AS REQUIRED. ENCLOSURE SHALL BE ACCESSIBLE AT ALL TIMES.
7. NEW 20ø HEATING SUPPLY/RETURN PIPE FROM NEW HEATING SUPPLY/RETURN PIPE MAIN LOCATED IN 2ND 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.
8. DROP NEW 100ø CHILLED WATER RETURN PIPE DOWN THREE FLOORS BELOW TO THE BASEMENT CEILING SPACE AND CONNECT TO EXISTING SERVICES. REFER TO BASEMENT 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. FOR MAIN CHILLED WATER SUPPLY AND RETURN PIPE SIZES, REFER TO SCHEMATIC DIAGRAM.
11. EXISTING FAN COIL UNIT TO REMAIN. PROVIDE NEW 25ø CHILLED WATER SUPPLY/RETURN WATER PIPE AND CONNECT TO EXISTING FAN COIL UNIT C/W ISOLATION VALVE, BALANCING VALVE, CONTROL VALVE AND CONTROL WIRING.

NOTES

ALL MECHANICAL WORKS INVOLVED ON THE 2ND FLOOR AND BASEMENT 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.

FAN COIL PLACEMENT & PIPING INSTALLATION NOTES:

CONTRACTOR TO INFORM YORK REGION PROJECT MANAGER, ARCHITECT AND YORK REGION OPERATIONS TEAM AND SCHEDULE A MEETING ON SITE TO REVIEW AND SIGN-OFF ON ALL FAN COIL UNIT PLACEMENT AND PIPE INSTALLATIONS. ALL MECHANICAL FAN COIL UNITS TO BE INSTALLED IN A WAY WHERE NO INTERFERENCES (E. SPRINKLER PIPE, CHILLED/ HEATING WATER LINES, ETC.) ARE NOT RUNNING UNDER THE UNIT. THIS IS TO ALLOW FOR THE MOTOR TO BE REPLACE IN FUTURE MAINTENANCE. CONTRACTOR TO ENSURE ADEQUATE SPACE IS PROVIDED TO ALLOW FOR REMOVAL & RE-INSTATEMENT OF FAN COIL UNIT FOR REGULAR MAINTENANCE/ SERVICING AND OR UNIT REPLACEMENT. FAILURE TO HAVE A MEETING TO SIGN-OFF ON THE INSTALLATION, THE CONTRACTOR IS TO BEAR ALL COST FOR THE REWORK.

SUBMISSION	DATE	DESCRIPTION
6	2024-09-18	ISSUED FOR CONSTRUCTION
5	2024-07-23	ISSUED AS PER ADDENDUM M-2
4	2024-07-15	ISSUED AS PER ADDENDUM M-1
3	2024-05-24	ISSUED FOR PERMIT/TENDER
2	2024-04-17	ISSUED FOR 90% PROGRESS REVIEW
1	2024-01-30	ISSUED FOR 60% PROGRESS REVIEW

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LICENSED PROFESSIONAL ENGINEER
GEO YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region
PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100

DRAWN BY: K.J/G.P.Y.

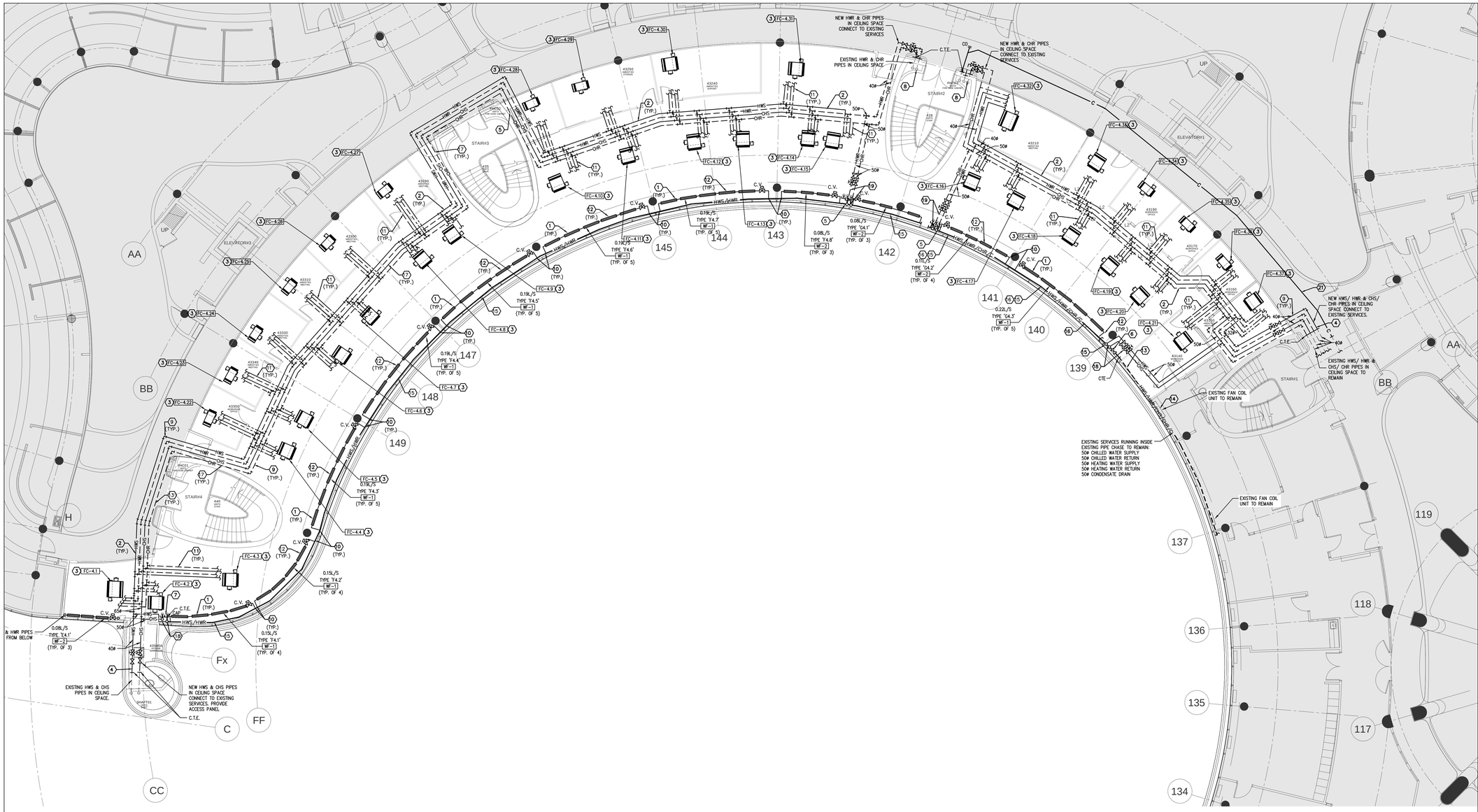
SUBMITTED TO: MUNICIPALITY OF YORK

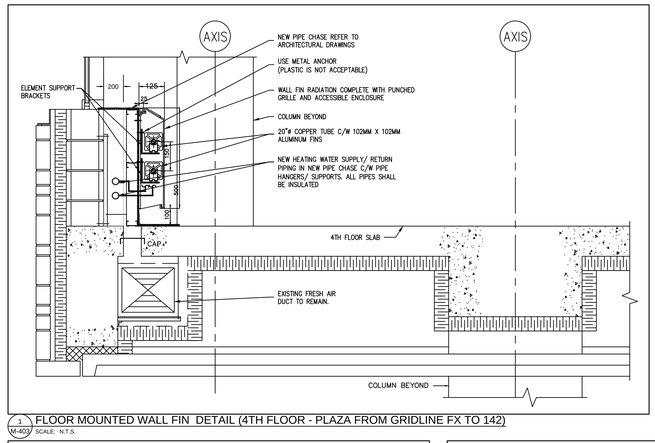
SHEET TITLE:

PARTIAL THIRD FLOOR AT BLOCK 'B' & 'C' - HYDRONIC NEW LAYOUT

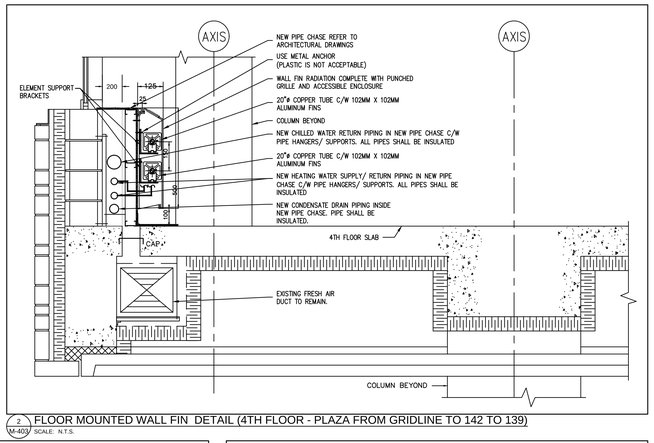
SHEET NUMBER:

M-402

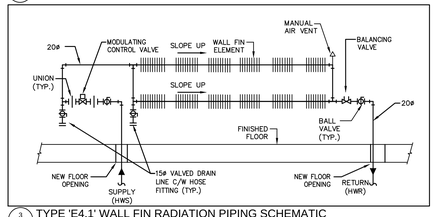




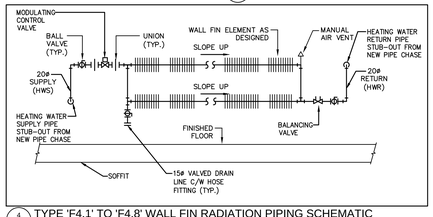
1 FLOOR MOUNTED WALL FIN DETAIL (4TH FLOOR - PLAZA FROM GRIDLINE FX TO 142)
M-403 SCALE: N.T.S.



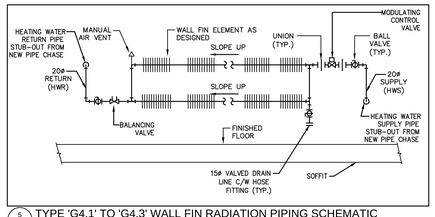
2 FLOOR MOUNTED WALL FIN DETAIL (4TH FLOOR - PLAZA FROM GRIDLINE TO 142 TO 139)
M-403 SCALE: N.T.S.



3 TYPE 'E4.1' WALL FIN RADIATION PIPING SCHEMATIC
M-403 SCALE: N.T.S.



4 TYPE 'F4.1' TO 'F4.8' WALL FIN RADIATION PIPING SCHEMATIC
M-403 SCALE: N.T.S.



5 TYPE 'G4.1' TO 'G4.3' WALL FIN RADIATION PIPING SCHEMATIC
M-403 SCALE: N.T.S.

DRAWING NOTES

1. NEW FLOOR MOUNTED WALL-FIN CABINET RADIATOR C/W ENCLOSURE. PROVIDE NEW HEATING WATER PIPE AND CONNECT TO NEW HEATING WATER PIPE STUB-OUT FROM NEW PIPE. REFER TO DETAIL NO. 1 & 2. (TYPICAL)
2. AT EACH CHANGE OF DIRECTION ON CHILLED WATER PIPING CONTRACTOR TO PROVIDE OFFSET AS PER MECHANICAL DETAIL NO. 10/M-104. (TYPICAL)
3. NEW FAN COIL UNIT IN CEILING SPACE. INSTALL UNIT TIGHT TO CEILING SLAB AS HIGH AS POSSIBLE. PROVIDE UNIT SUPPORTS AS REQUIRED. (TYPICAL)
4. PROVIDE NEW CHILLED WATER SUPPLY AND HEATING WATER SUPPLY PIPES TO SERVE FAN COIL UNITS. CONNECT NEW PIPES TO EXISTING CAPPED SERVICES IN CEILING SPACE AT THIS APPROXIMATE LOCATION. PROVIDE NEW SHUT-OFF & BALANCING VALVES. PROVIDE ACCESS HATCH FOR VALVE SERVICING/ MAINTENANCE. (TYPICAL)
5. PROVIDE NEW HEATING WATER RETURN PIPE TO SERVE NEW WALL FINNED TUBE RADIATORS. CONNECT NEW PIPE TO EXISTING CAPPED SERVICES AT THIS APPROXIMATE LOCATION. PROVIDE NEW SHUT-OFF & BALANCING VALVES. PROVIDE ACCESS HATCH FOR VALVE SERVICING/ MAINTENANCE.
6. PROVIDE NEW HEATING WATER SUPPLY & RETURN PIPES TO SERVE NEW WALL FINNED TUBE RADIATORS. CONNECT NEW PIPES TO EXISTING CAPPED SERVICES AT THIS APPROXIMATE LOCATION INSIDE EXISTING MILLWORK. PROVIDE NEW SHUT-OFF & BALANCING VALVES. PROVIDE ACCESS HATCH FOR VALVE SERVICING/ MAINTENANCE.
7. PROVIDE NEW HEATING WATER SUPPLY PIPE TO SERVE NEW WALL FINNED TUBE RADIATORS. CONNECT NEW PIPE TO EXISTING CAPPED SERVICES AT THIS APPROXIMATE LOCATION. PROVIDE NEW SHUT-OFF & BALANCING VALVES. PROVIDE ACCESS HATCH FOR VALVE SERVICING/ MAINTENANCE.
8. PROVIDE NEW CHILLED WATER RETURN AND HEATING WATER RETURN PIPES TO SERVE FAN COIL UNITS. CONNECT NEW PIPES TO EXISTING CAPPED SERVICES IN CEILING SPACE AT THIS APPROXIMATE LOCATION. PROVIDE NEW SHUT-OFF & BALANCING VALVES. PROVIDE ACCESS HATCH FOR VALVE SERVICING/ MAINTENANCE. (TYPICAL)
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 20 DIA. HEATING WATER SUPPLY & RETURN PIPES, PIPES TO BE LOCATED INSIDE NEW PIPE CHASE. PROVIDE PIPE STUB-OUT FOR WALL FINNED TUBE HEATING LINE CONNECTION. COORDINATE PIPE INSTALLATION WITH NEW MILLWORK INSTALLATION ON SITE. REFER TO DETAIL ON THIS SHEET FOR INFORMATION. (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 BE ACCESSIBLE AT ALL TIMES.
13. EXTEND NEW CHILLED WATER SUPPLY/RETURN PIPES & CONDENSATE PIPE AND CONNECT FROM EXISTING CAPPED SERVICES AT THIS APPROXIMATE LOCATION. PIPES TO SERVE EXISTING FLOOR-MOUNTED FAN COIL UNITS AT BLOCK 'C'.
14. CONNECT EXISTING FLOOR-MOUNTED FAN COIL UNIT TO NEW SERVICES C/W SHUT-OFF VALVES INSIDE EXISTING MILLWORK.
15. NEW HEATING WATER SUPPLY/RETURN PIPING INSIDE NEW PIPE CHASE TO SERVE NEW WALL FIN RADS AND EXISTING FLOOR-MOUNTED FAN COIL UNITS.
16. NEW CHILLED WATER RETURN PIPING AND CONDENSATE PIPING INSIDE NEW PIPE CHASE TO SERVE EXISTING FLOOR-MOUNTED FAN COIL UNITS AT BLOCK 'C'. EXTEND BOTH PIPES AND CONNECT TO EXISTING CAPPED SERVICES NEAR GRID LINE 142.
17. FOR MAIN CHILLED WATER SUPPLY AND RETURN PIPE SIZES, REFER TO SCHEMATIC DIAGRAM.
18. PROVIDE NEW CHILLED & HEATING WATER SUPPLY LINES FROM EXISTING CAPPED SERVICES AT THIS APPROXIMATE LOCATION. EXTEND LINES UP TO CEILING SPACE AND CONNECT TO NEW PIPES AS SHOWN. PROVIDE NEW SHUT-OFF & BALANCING VALVES. PROVIDE ACCESS HATCH FOR VALVE SERVICING/ MAINTENANCE. REFER TO DRAWING NO. M-103 FOR PIPING SCHEMATIC DIAGRAM. (TYPICAL)
19. PROVIDE NEW CHILLED & HEATING WATER RETURN LINES FROM EXISTING CAPPED SERVICES AT THIS APPROXIMATE LOCATION. EXTEND LINES UP TO CEILING SPACE AND CONNECT TO NEW PIPES AS SHOWN. PROVIDE NEW SHUT-OFF & BALANCING VALVES. PROVIDE ACCESS HATCH FOR VALVE SERVICING/ MAINTENANCE. REFER TO DRAWING NO. M-103 FOR PIPING SCHEMATIC DIAGRAM.

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF 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 MEETING ROOM & CORRIDOR 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.

FAN COIL PLACEMENT & PIPING INSTALLATION

CONTRACTOR TO INFORM YORK REGION PROJECT MANAGER, ARCHITECT AND YORK REGION OPERATIONS TEAM AND SCHEDULE A MEETING ON SITE TO REVIEW AND SIGN-OFF ON ALL FAN COIL UNIT PLACEMENT AND PIPE INSTALLATIONS. ALL MECHANICAL FAN COIL UNITS TO BE INSTALLED IN A WAY WHERE NO INTERFERENCES (IE. SPRINKLER PIPE, CHILLED/ HEATING WATER LINES, ETC.) ARE NOT RUNNING UNDER THE UNIT. THIS IS TO ALLOW FOR THE MOTOR TO BE REPLACE IN FUTURE MAINTENANCE. CONTRACTOR TO ENSURE ADEQUATE SPACE IS PROVIDED TO ALLOW FOR REMOVAL & RE-INSTATEMENT OF FAN COIL UNIT FOR REGULAR MAINTENANCE/ SERVICING AND OR UNIT REPLACEMENT. FAILURE TO HAVE A MEETING TO SIGN-OFF ON THE INSTALLATION, THE CONTRACTOR IS TO BEAR ALL COST FOR THE REWORK.

SUBMISSION	DATE	DESCRIPTION
6	2024-09-18	ISSUED FOR CONSTRUCTION
5	2024-07-23	ISSUED AS PER ADDENDUM M-2
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3	2024-05-24	ISSUED FOR PERMIT/TENDER
2	2024-04-17	ISSUED FOR 90% PROGRESS REVIEW
1	2024-01-30	ISSUED FOR 60% PROGRESS REVIEW

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LICENSED PROFESSIONAL ENGINEER
G.G. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region
PROPERTY SERVICES

DEPARTMENT: BUILDING & FACILITIES
FLOOR: GROUND, 2ND, 3RD, 4TH
BASE DATE: 11-28-2023
PROJECT:

TENDER # RFTC-652-22

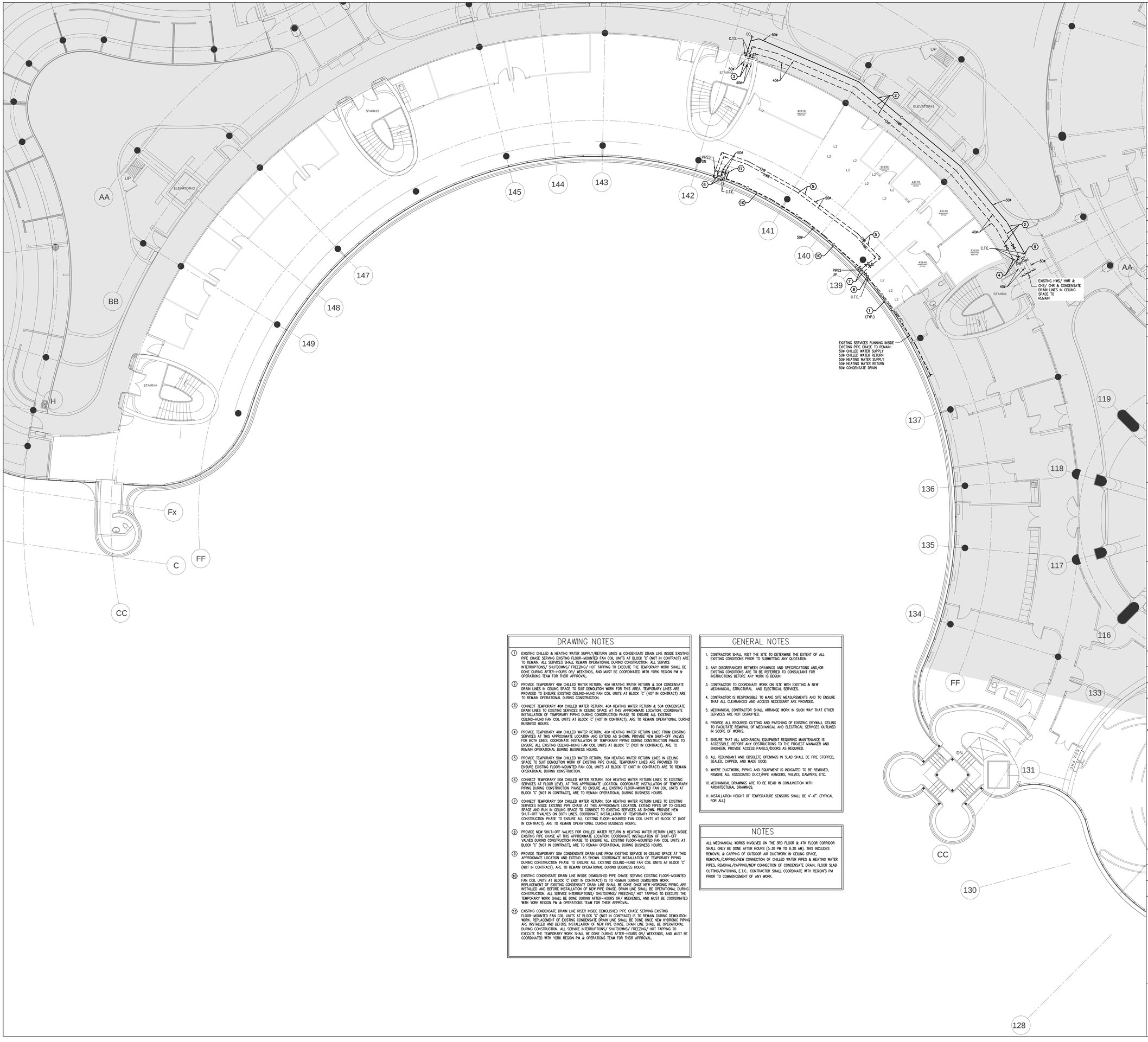
YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100
DRAWN BY: K.J/G.P.Y.
SUBMITTED TO: MUNICIPALITY OF YORK
SHEET TITLE:

PARTIAL FOURTH FLOOR AT BLOCK 'A' & 'B' - HYDRONIC NEW LAYOUT

SHEET NUMBER:

M-403



DRAWING NOTES

1. EXISTING CHILLED & HEATING WATER SUPPLY/RETURN LINES & CONDENSATE DRAIN LINE INSIDE EXISTING PIPE CHASE SERVING EXISTING FLOOR-MOUNTED FAN COIL UNITS AT BLOCK 'C' (NOT IN CONTRACT) ARE TO REMAIN. ALL SERVICES SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. ALL SERVICE INTERRUPTIONS/ SHUTDOWNS/ FREEZING/ HOT TAPPING TO EXECUTE THE TEMPORARY WORK SHALL BE DONE DURING AFTER-HOURS OR/ WEEKENDS, AND MUST BE COORDINATED WITH YORK REGION PM & OPERATIONS TEAM FOR THEIR APPROVAL.
2. PROVIDE TEMPORARY 40ø CHILLED WATER RETURN, 40ø HEATING WATER RETURN & 50ø CONDENSATE DRAIN LINES IN CEILING SPACE TO SUIT DEMOLITION WORK FOR THIS AREA. TEMPORARY LINES ARE PROVIDED TO ENSURE EXISTING CEILING-HUNG FAN COIL UNITS AT BLOCK 'C' (NOT IN CONTRACT) ARE TO REMAIN OPERATIONAL DURING CONSTRUCTION.
3. CONNECT TEMPORARY 40ø CHILLED WATER RETURN, 40ø HEATING WATER RETURN & 50ø CONDENSATE DRAIN LINES TO EXISTING SERVICES IN CEILING SPACE AT THIS APPROXIMATE LOCATION. COORDINATE INSTALLATION OF TEMPORARY PIPING DURING CONSTRUCTION PHASE TO ENSURE ALL EXISTING CEILING-HUNG FAN COIL UNITS AT BLOCK 'C' (NOT IN CONTRACT), ARE TO REMAIN OPERATIONAL DURING BUSINESS HOURS.
4. PROVIDE TEMPORARY 40ø CHILLED WATER RETURN, 40ø HEATING WATER RETURN LINES FROM EXISTING SERVICES AT THIS APPROXIMATE LOCATION AND EXTEND AS SHOWN. PROVIDE NEW SHUT-OFF VALVES FOR BOTH LINES. COORDINATE INSTALLATION OF TEMPORARY PIPING DURING CONSTRUCTION PHASE TO ENSURE ALL EXISTING CEILING-HUNG FAN COIL UNITS AT BLOCK 'C' (NOT IN CONTRACT), ARE TO REMAIN OPERATIONAL DURING BUSINESS HOURS.
5. PROVIDE TEMPORARY 50ø CHILLED WATER RETURN, 50ø HEATING WATER RETURN LINES IN CEILING SPACE TO SUIT DEMOLITION WORK OF EXISTING PIPE CHASE. TEMPORARY LINES ARE PROVIDED TO ENSURE EXISTING FLOOR-MOUNTED FAN COIL UNITS AT BLOCK 'C' (NOT IN CONTRACT) ARE TO REMAIN OPERATIONAL DURING CONSTRUCTION.
6. CONNECT TEMPORARY 50ø CHILLED WATER RETURN, 50ø HEATING WATER RETURN LINES TO EXISTING SERVICES AT FLOOR LEVEL AT THIS APPROXIMATE LOCATION. COORDINATE INSTALLATION OF TEMPORARY PIPING DURING CONSTRUCTION PHASE TO ENSURE ALL EXISTING FLOOR-MOUNTED FAN COIL UNITS AT BLOCK 'C' (NOT IN CONTRACT), ARE TO REMAIN OPERATIONAL DURING BUSINESS HOURS.
7. CONNECT TEMPORARY 50ø CHILLED WATER RETURN, 50ø HEATING WATER RETURN LINES TO EXISTING SERVICES INSIDE EXISTING PIPE CHASE AT THIS APPROXIMATE LOCATION. EXTEND PIPES UP TO CEILING SPACE AND RUN IN CEILING SPACE TO CONNECT TO EXISTING SERVICES AS SHOWN. PROVIDE NEW SHUT-OFF VALVES ON BOTH LINES. COORDINATE INSTALLATION OF TEMPORARY PIPING DURING CONSTRUCTION PHASE TO ENSURE ALL EXISTING FLOOR-MOUNTED FAN COIL UNITS AT BLOCK 'C' (NOT IN CONTRACT), ARE TO REMAIN OPERATIONAL DURING BUSINESS HOURS.
8. PROVIDE NEW SHUT-OFF VALVES FOR CHILLED WATER RETURN & HEATING WATER RETURN LINES INSIDE EXISTING PIPE CHASE AT THIS APPROXIMATE LOCATION. COORDINATE INSTALLATION OF SHUT-OFF VALVES DURING CONSTRUCTION PHASE TO ENSURE ALL EXISTING FLOOR-MOUNTED FAN COIL UNITS AT BLOCK 'C' (NOT IN CONTRACT), ARE TO REMAIN OPERATIONAL DURING BUSINESS HOURS.
9. PROVIDE TEMPORARY 50ø CONDENSATE DRAIN LINE FROM EXISTING SERVICE IN CEILING SPACE AT THIS APPROXIMATE LOCATION AND EXTEND AS SHOWN. COORDINATE INSTALLATION OF TEMPORARY PIPING DURING CONSTRUCTION PHASE TO ENSURE ALL EXISTING CEILING-HUNG FAN COIL UNITS AT BLOCK 'C' (NOT IN CONTRACT), ARE TO REMAIN OPERATIONAL DURING BUSINESS HOURS.
10. EXISTING CONDENSATE DRAIN LINE INSDE DEMOLISHED PIPE CHASE SERVING EXISTING FLOOR-MOUNTED FAN COIL UNITS AT BLOCK 'C' (NOT IN CONTRACT) IS TO REMAIN DURING DEMOLITION WORK. REPLACEMENT OF EXISTING CONDENSATE DRAIN LINE SHALL BE DONE ONCE NEW HYDRONIC PIPING ARE INSTALLED AND BEFORE INSTALLATION OF NEW PIPE CHASE. DRAIN LINE SHALL BE OPERATIONAL DURING CONSTRUCTION. ALL SERVICE INTERRUPTIONS/ SHUTDOWNS/ FREEZING/ HOT TAPPING TO EXECUTE THE TEMPORARY WORK SHALL BE DONE DURING AFTER-HOURS OR/ WEEKENDS, AND MUST BE COORDINATED WITH YORK REGION PM & OPERATIONS TEAM FOR THEIR APPROVAL.
11. EXISTING CONDENSATE DRAIN LINE RISER INSIDE DEMOLISHED PIPE CHASE SERVING EXISTING FLOOR-MOUNTED FAN COIL UNITS AT BLOCK 'C' (NOT IN CONTRACT) IS TO REMAIN DURING DEMOLITION WORK. REPLACEMENT OF EXISTING CONDENSATE DRAIN LINE SHALL BE DONE ONCE NEW HYDRONIC PIPING ARE INSTALLED AND BEFORE INSTALLATION OF NEW PIPE CHASE. DRAIN LINE SHALL BE OPERATIONAL DURING CONSTRUCTION. ALL SERVICE INTERRUPTIONS/ SHUTDOWNS/ FREEZING/ HOT TAPPING TO EXECUTE THE TEMPORARY WORK SHALL BE DONE DURING AFTER-HOURS OR/ WEEKENDS, AND MUST BE COORDINATED WITH YORK REGION PM & OPERATIONS TEAM FOR THEIR APPROVAL.

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF 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 & 4TH FLOOR CORRIDOR 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.

SUBMISSION	DATE	DESCRIPTION
6	2024-09-18	ISSUED FOR CONSTRUCTION
5	2024-07-23	ISSUED AS PER ADDENDUM M-2
4	2024-07-15	ISSUED AS PER ADDENDUM M-1
3	2024-05-24	ISSUED FOR PERMIT/TENDER
2	2024-04-17	ISSUED FOR 90% PROGRESS REVIEW
1	2024-01-30	ISSUED FOR 60% PROGRESS REVIEW

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Fax: 866 853 3732
email: engineering
@gpyengineering.com

LICENSED PROFESSIONAL ENGINEER
G. G. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region
PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION
Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100

DRAWN BY: K.J/G.P.Y.

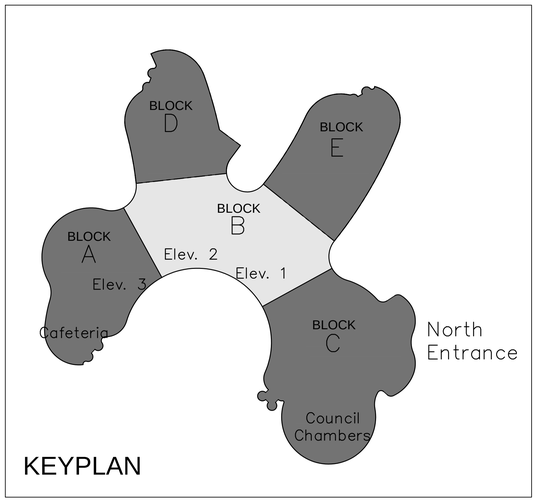
SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL FOURTH FLOOR AT BLOCK 'B' - HYDRONIC (TEMPORARY WORK) LAYOUT

SHEET NUMBER:

M-404



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 BASEMENT 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 BAS CONTROLLER IN CEILING SPACE. PROVIDE CONTROL WIRING AND TRANSFORMER AS REQUIRED. CONTROLLER SHALL BE INSTALLED CLOSE TO FAN COIL UNIT IN CEILING SPACE. COORDINATE WORK WITH FAN COIL UNIT MANUFACTURER. (TYPICAL)
5. NEW TEMPERATURE SENSOR WITH CO_2 SENSOR. PROVIDE CONTROL WIRING. EXACT LOCATION TO BE CONFIRMED ON SITE WITH THE ARCHITECT. (TYPICAL)
6. NEW JANITOR ROOM FLOOR WATER DETECTION SENSOR. PROVIDE NECESSARY CONTROL WIRING, FLOOR SLAB CUTTING/PATCHING AS REQUIRED.
7. NEW CONTROLS PANEL IN ELECTRICAL ROOM BY CONTROLS CONTRACTOR. POWER BY DIV. 16.
8. EXISTING AVERAGING TEMPERATURE SENSOR FOR THIS FLOOR C/W CONTROL WIRING TO REMAIN.
9. NEW CONTROLLER TO BE HOME RUN DIRECTLY TO CONTROL PANEL LOCATED IN MECHANICAL/ ELECTRICAL ROOM 115. ALL CONTROL WIRING/ PROTOCOL SHALL BE CAT 6A (C/W ORANGE OUTER JACKET), OTHER COLOURS ARE NOT ACCEPTABLE AND CANNOT BE USED FOR THIS PROJECT. DAISY CHAINS ARE NOT PERMITTED. WIRING/ PROTOCOL FROM CONTROLLER TO CONTROL/SENSING DEVICES (THERMOSTAT, CONTROL VALVE, ETC.) SHALL BE MS/TP TWISTED PAIR.
10. NEW O3 SENSOR TO BE HOME RUN DIRECTLY TO CONTROL PANEL LOCATED IN MECHANICAL/ ELECTRICAL ROOM 115. ALL CONTROL WIRING/ PROTOCOL SHALL BE CAT 6A (C/W ORANGE OUTER JACKET), OTHER COLOURS ARE NOT ACCEPTABLE AND CANNOT BE USED FOR THIS PROJECT. DAISY CHAINS ARE NOT PERMITTED. WIRING/ PROTOCOL FROM SENSOR TO CONTROLLER SHALL BE MS/TP TWISTED PAIR.
11. NEW FRESH AIR SUPPLY FAN, INTERLOCK FAN TO ASSOCIATED CONTROLLER & BMS
12. FOR DEVICE DESIGNATION & NAMING CONVENTION, REFER TO KEY PLAN FOR BLOCK SEPARATION & COORDINATE WITH YORK REGION'S OPERATION TEAM.
13. O3 SENSORS LOCATION SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY. O3 SENSORS SHALL BE PLACED AWAY FROM THERMOSTAT. CONTROLS CONTRACTOR TO PROVIDE FINAL LAYOUT OF O3 SENSORS LOCATION TO YORK REGION'S OPERATION TEAM FOR THEIR COMMENTS AND APPROVAL.

SUBMISSION	DATE	DESCRIPTION
6	2024-09-18	ISSUED FOR CONSTRUCTION
5	2024-07-23	ISSUED AS PER ADDENDUM M-2
4	2024-07-15	ISSUED AS PER ADDENDUM M-1
3	2024-05-24	ISSUED FOR PERMIT/TENDER
2	2024-04-17	ISSUED FOR 90% PROGRESS REVIEW
1	2024-01-30	ISSUED FOR 60% PROGRESS REVIEW

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Fax: 866 853 3732
email: engineering
@gpyengineering.com

LICENCE PROFESSIONAL ENGINEER
GUY YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region

PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023
PROJECT:	

TENDER # RFTC-652-22

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100

DRAWN BY: K.J/G.P.Y.

SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL GROUND FLOOR AT BLOCK 'D' - 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 DISCREPANCES 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 GRD 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
9. NEW CONTROLLER TO BE HOME RUN DIRECTLY TO CONTROL PANEL LOCATED IN MECHANICAL/ ELECTRICAL ROOM 202. ALL CONTROL WIRING/ PROTOCOL SHALL BE CAT 6A (C/W ORANGE OUTER JACKET), OTHER COLOURS ARE NOT ACCEPTABLE AND CANNOT BE USED FOR THIS PROJECT. DAISY CHAINS ARE NOT PERMITTED. WIRING/ PROTOCOL FROM CONTROLLER TO CONTROL/SENSING DEVICES (THERMOSTAT, CONTROL VALVE, ETC.) SHALL BE MS/TP TWISTED PAIR.
10. NEW O3 SENSOR TO BE HOME RUN DIRECTLY TO CONTROL PANEL LOCATED IN MECHANICAL/ ELECTRICAL ROOM 202. ALL CONTROL WIRING/ PROTOCOL SHALL BE CAT 6A (C/W ORANGE OUTER JACKET), OTHER COLOURS ARE NOT ACCEPTABLE AND CANNOT BE USED FOR THIS PROJECT. DAISY CHAINS ARE NOT PERMITTED. WIRING/ PROTOCOL FROM SENSOR TO CONTROLLER SHALL BE MS/TP TWISTED PAIR.
11. FOR DEVICE DESIGNATION & NAMING CONVENTION, REFER TO KEY PLAN FOR BLOCK SEPARATION & COORDINATE WITH YORK REGION'S OPERATION TEAM.
12. O3 SENSORS LOCATION SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY. O3 SENSORS SHALL BE PLACED AWAY FROM THERMOSTAT. CONTROLS CONTRACTOR TO PROVIDE FINAL LAYOUT OF O3 SENSORS LOCATION TO YORK REGION'S OPERATION TEAM FOR THEIR COMMENTS AND APPROVAL.

SUBMISSION	DATE	DESCRIPTION
6	2024-09-18	ISSUED FOR CONSTRUCTION
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3	2024-05-24	ISSUED FOR PERMIT/TENDER
2	2024-04-17	ISSUED FOR 90% PROGRESS REVIEW
1	2024-01-30	ISSUED FOR 60% PROGRESS REVIEW

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LICENSED PROFESSIONAL ENGINEER
G.G. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region
PROPERTY SERVICES

DEPARTMENT:	BUILDING & FACILITIES
FLOOR:	GROUND, 2ND, 3RD, 4TH
BASE DATE:	11-28-2023
PROJECT:	

TENDER # RFTC-652-22

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

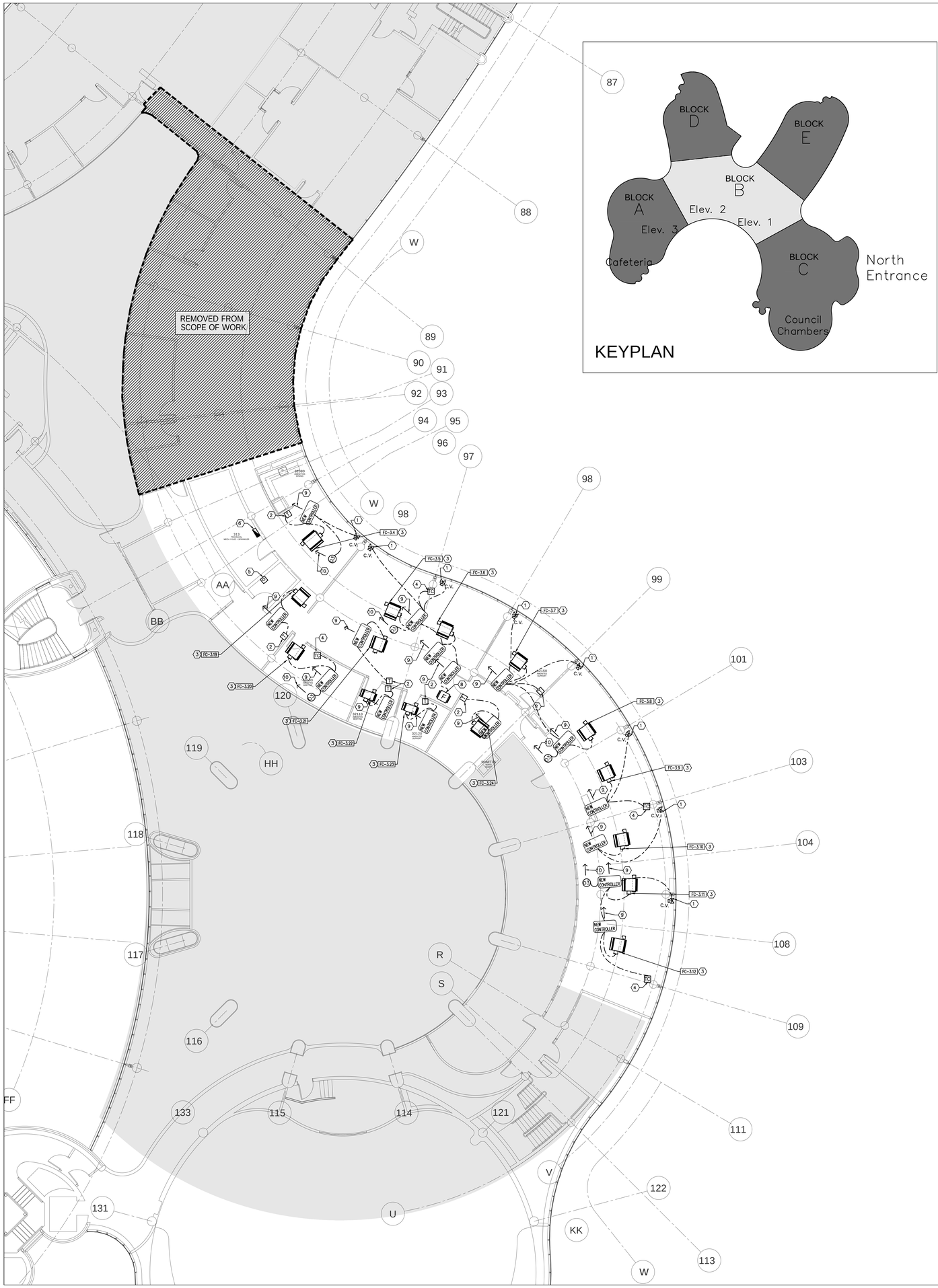
SCALE:	1:100
DRAWN BY:	K.J/G.P.Y.
SUBMITTED TO:	MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL SECOND FLOOR AT BLOCK 'A' - CONTROLS LAYOUT

SHEET NUMBER:

M-501


REMOVED FROM SCOPE OF WORK
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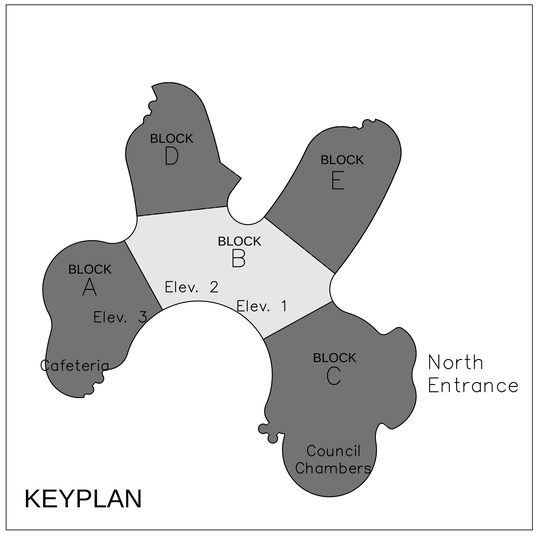

DRAWING NOTES

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
9. NEW CONTROLLER TO BE HOME RUN DIRECTLY TO CONTROL PANEL LOCATED IN MECHANICAL/ ELECTRICAL ROOM 422. ALL CONTROL WIRING/ PROTOCOL SHALL BE CAT 6A (C/W ORANGE OUTER JACKET), OTHER COLOURS ARE NOT ACCEPTABLE AND CANNOT BE USED FOR THIS PROJECT. DAISY CHAINS ARE NOT PERMITTED. WIRING/ PROTOCOL FROM CONTROLLER TO CONTROL/SENSING DEVICES (THERMOSTAT, CONTROL VALVE, ETC.) SHALL BE MS/TP TWISTED PAIR.
10. NEW 03 SENSOR TO BE HOME RUN DIRECTLY TO CONTROL PANEL LOCATED IN MECHANICAL/ ELECTRICAL ROOM 422. ALL CONTROL WIRING/ PROTOCOL SHALL BE CAT 6A (C/W ORANGE OUTER JACKET), OTHER COLOURS ARE NOT ACCEPTABLE AND CANNOT BE USED FOR THIS PROJECT. DAISY CHAINS ARE NOT PERMITTED. WIRING/ PROTOCOL FROM SENSOR TO CONTROLLER SHALL BE MS/TP TWISTED PAIR.
11. NEW CONTROLLER TO BE HOME RUN DIRECTLY TO CONTROL PANEL LOCATED IN MECHANICAL/ ELECTRICAL ROOM NEAR GRID LINE 94/AA AT BLOCK 'C'. ALL CONTROL WIRING/ PROTOCOL SHALL BE CAT 6A (C/W ORANGE OUTER JACKET), OTHER COLOURS ARE NOT ACCEPTABLE AND CANNOT BE USED FOR THIS PROJECT. DAISY CHAINS ARE NOT PERMITTED. WIRING/ PROTOCOL FROM CONTROLLER TO CONTROL/SENSING DEVICES (THERMOSTAT, CONTROL VALVE, ETC.) SHALL BE MS/TP TWISTED PAIR.
12. NEW 03 SENSOR TO BE HOME RUN DIRECTLY TO CONTROL PANEL LOCATED IN MECHANICAL/ ELECTRICAL ROOM NEAR GRID LINE 94/AA AT BLOCK 'C'. ALL CONTROL WIRING/ PROTOCOL SHALL BE CAT 6A (C/W ORANGE OUTER JACKET), OTHER COLOURS ARE NOT ACCEPTABLE AND CANNOT BE USED FOR THIS PROJECT. DAISY CHAINS ARE NOT PERMITTED. WIRING/ PROTOCOL FROM SENSOR TO CONTROLLER SHALL BE MS/TP TWISTED PAIR.
13. FOR DEVICE DESIGNATION & NAMING CONVENTION, REFER TO KEY PLAN FOR BLOCK SEPARATION & COORDINATE WITH YORK REGION'S OPERATION TEAM.
14. 03 SENSORS LOCATION SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY. 03 SENSORS SHALL BE PLACED AWAY FROM THERMOSTAT. CONTROLS CONTRACTOR TO PROVIDE FINAL LAYOUT OF 03 SENSORS LOCATION TO YORK REGION'S OPERATION TEAM FOR THEIR COMMENTS AND APPROVAL.

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.

SUBMISSION	DATE	DESCRIPTION
6	2024-09-18	ISSUED FOR CONSTRUCTION
5	2024-07-23	ISSUED AS PER ADDENDUM M-2
4	2024-07-15	ISSUED AS PER ADDENDUM M-1
3	2024-05-24	ISSUED FOR PERMIT/TENDER
2	2024-04-17	ISSUED FOR 90% PROGRESS REVIEW
1	2024-01-30	ISSUED FOR 60% PROGRESS REVIEW

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LICENSED PROFESSIONAL ENGINEER
G. P. YOUDELIS
2024/05/24
PROVINCE OF ONTARIO

York Region
PROPERTY SERVICES

DEPARTMENT: BUILDING & FACILITIES
FLOOR: GROUND, 2ND, 3RD, 4TH
BASE DATE: 11-28-2023

PROJECT:

TENDER # RFTC-652-22

YORK REGION

Administrative Centre
17250 Yonge Street
Newmarket, Ontario

SCALE: 1:100
DRAWN BY: K.J/G.P.Y.
SUBMITTED TO: MUNICIPALITY OF YORK

SHEET TITLE:

PARTIAL FOURTH FLOOR AT BLOCK 'A' & 'B' - CONTROLS LAYOUT

SHEET NUMBER:

M-503