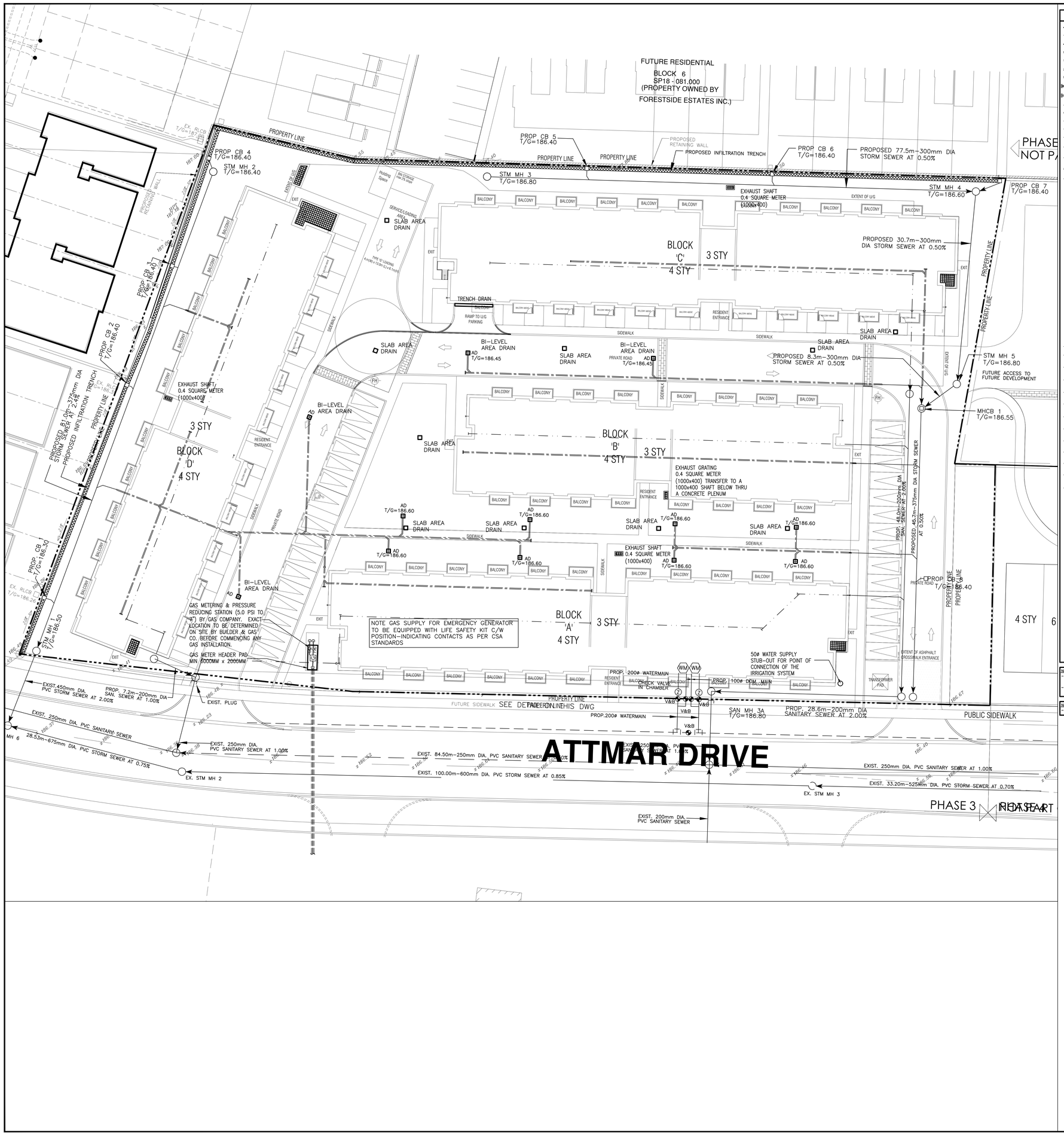


LEGEND

	NEW SANITARY DRAIN BURIED
	EXISTING SANITARY DRAIN BURIED
	SANITARY DRAIN ABOVE GROUND
	NEW STORM DRAIN BURIED
	EXISTING STORM DRAIN BURIED
	EXISTING STORM DRAIN BURIED TO BE REMOVED
	STORM DRAIN ABOVE GROUND
	NEW CLEAN OUTS
	EXISTING CLEAN OUTS
	NEW DOMESTIC COLD WATER
	EXISTING DOMESTIC COLD WATER TO BE REMOVED
	DOMESTIC HOT WATER
	DOM. HOT WATER RECIRC. LINE
V	VENT. LINE
G	GAS LINE
F	FIRE LINE
	EXISTING FIRE LINE TO BE REMOVED
SP	NEW SPRINKLER LINE
F.H.C.	FIRE HOSE CABINET
	FIRE DEPT. SIAMESE CONNECTION
	FIRE EXTINGUISHER
	FIRE HYDRANT AND VALVE
F/S	SPRINKLER FLOW ALARM SWITCH
	DRY SPRINKLER VALVE C/W ALARM
N.F.H.B	SUPERVISED VALVE- SEE SCHEDULE FOR FIRE PROTECTION NOTES SEE SCHEDULE
H.B	NON FREEZE HOSE BIBB C/W BACKFLOW PREVENTER
R.D.	HOSE BIBB C/W BACKFLOW PREVENTER
R.W.L.	ROOF DRAIN
F.D.	RAINWATER LEPDER
H.D.	FLOOR DRAIN
A.D.	HUB DRAIN
S.A.D.	AREA DRAIN
C.B.	SODDED AREA DRAIN
M.H.	CATCH BASIN
	MANHOLE
	ANCHOR
UN	UNION
ST	STRAINER
G.V.	GATE VALVE
GLV.	GLOBE VALVE
C.V.	CHECK VALVE
P.R.V.	PRESSURE REDUCING VALVE
L.V.	LOCKSHIELD VALVE
B.V.	BALANCING VALVE
R.V.	PRESSURE RELIEF VALVE
T.R.V.	TEMP. AND PRESSURE RELIEF VALVE
	THERMOMETER
P.G.	PRESSURE GAUGE
P-1	PUMP-SEE SCHEDULE
2 / M-7	DETAIL NR / DRAWING NR
E/B/B	ELEC. BASEBOARD HEATER
E/U/H	ELEC. UNIT HEATER
E/F/F	ELEC. FORCE FLOW HEATER
00.00	EXISTING GRADES
00.00	FINAL GRADES
C/W	COMPLETED WITH
F/D	FIRE DAMPER
S/A	SUPPLY AIR
R/A	RETURN AIR
T/A	TO ABOVE
T/B	TO BELOW
F/A	FROM ABOVE
F/B	FROM BELOW
ABV	ABOVE

NOTE:
- FOR DETAILED SITE SERVICING REFER TO DRAWINGS PREPARED BY ODAN-DETECH CONSULTING ENGINEER
- FOR DETAILED GRADING REFER TO DRAWINGS PREPARED BY ODAN-DETECH CONSULTING ENGINEER

NOTE:
- MINIMUM EXPECTED WATER PRESSURE 30 PSI

DRAWING SCHEDULE

DWG. NO.	DESCRIPTION	SCALE
M-1	SITE PLAN	1:200
M-2	UNDERGROUND DRAINAGE LAYOUT - MECHANICAL	1:150
M-2A	UNDERGROUND DRAINAGE LAYOUT - MECHANICAL - PART 1	1:100
M-2B	UNDERGROUND DRAINAGE LAYOUT - MECHANICAL - PART 2	1:100
M-3	PARKING LEVEL PLUMBING - MECHANICAL	1:150
M-3A	PARKING LEVEL PLUMBING -MECHANICAL - PART 1	1:100
M-3B	PARKING LEVEL PLUMBING -MECHANICAL - PART 2	1:100
M-4	PARKING LEVEL HVAC - MECHANICAL	1:150
M-4A	PARKING LEVEL HVAC -MECHANICAL - PART 1	1:100
M-4B	PARKING LEVEL HVAC -MECHANICAL - PART 2	1:100
M-5	BLOCK 1 BUILDING A GROUND FLOOR - PLUMBING SANITARY	1:50
M-6	BLOCK 1 BUILDING B GROUND FLOOR - PLUMBING SANITARY	1:50
M-7	BLOCK 1 BUILDING A 2ND FLOOR - PLUMBING SANITARY	1:50
M-8	BLOCK 1 BUILDING A 2ND FLOOR - PLUMBING SANITARY	1:50
M-9	BLOCK 1 BUILDING A 3RD FLOOR - PLUMBING SANITARY	1:50
M-10	BLOCK 1 BUILDING A 3RD FLOOR - PLUMBING SANITARY	1:50
M-11	BLOCK 1 BUILDING A 4TH FLOOR - PLUMBING SANITARY	1:50
M-12	BLOCK 1 BUILDING A 4TH FLOOR - PLUMBING SANITARY	1:50
M-13	BLOCK 1 BUILDING A ROOF PLAN - PLUMBING SANITARY	1:50
M-14	BLOCK 1 BUILDING A ROOF PLAN - PLUMBING SANITARY	1:50
M-15	BLOCK 2 BUILDING B GROUND FLOOR - PLUMBING SANITARY	1:50
M-16	BLOCK 2 BUILDING B GROUND FLOOR - PLUMBING SANITARY	1:50
M-17	BLOCK 2 BUILDING B 2ND FLOOR - PLUMBING SANITARY	1:50
M-18	BLOCK 2 BUILDING B 2ND FLOOR - PLUMBING SANITARY	1:50
M-19	BLOCK 2 BUILDING B 3RD FLOOR - PLUMBING SANITARY	1:50
M-20	BLOCK 2 BUILDING B 3RD FLOOR - PLUMBING SANITARY	1:50
M-21	BLOCK 2 BUILDING B 4TH FLOOR - PLUMBING SANITARY	1:50
M-22	BLOCK 2 BUILDING B 4TH FLOOR - PLUMBING SANITARY	1:50
M-23	BLOCK 2 BUILDING B ROOF PLAN - PLUMBING SANITARY	1:50
M-24	BLOCK 2 BUILDING B ROOF PLAN - PLUMBING SANITARY	1:50
M-25	BLOCK 3 BUILDING C GROUND FLOOR - PLUMBING SANITARY	1:50
M-26	BLOCK 3 BUILDING C GROUND FLOOR - PLUMBING SANITARY	1:50
M-27	BLOCK 3 BUILDING C 2ND FLOOR - PLUMBING SANITARY	1:50
M-28	BLOCK 3 BUILDING C 2ND FLOOR - PLUMBING SANITARY	1:50
M-29	BLOCK 3 BUILDING C 3RD FLOOR - PLUMBING SANITARY	1:50
M-30	BLOCK 3 BUILDING C 3RD FLOOR - PLUMBING SANITARY	1:50
M-31	BLOCK 3 BUILDING C 4TH FLOOR - PLUMBING SANITARY	1:50
M-32	BLOCK 3 BUILDING C 4TH FLOOR - PLUMBING SANITARY	1:50
M-33	BLOCK 3 BUILDING C ROOF PLAN - PLUMBING SANITARY	1:50
M-34	BLOCK 3 BUILDING C ROOF PLAN - PLUMBING SANITARY	1:50
M-35	BLOCK 4 BUILDING D GROUND FLOOR - PLUMBING SANITARY	1:50
M-36	BLOCK 4 BUILDING D GROUND FLOOR - PLUMBING SANITARY	1:50
M-37	BLOCK 4 BUILDING D 2ND FLOOR - PLUMBING SANITARY	1:50
M-38	BLOCK 4 BUILDING D 2ND FLOOR - PLUMBING SANITARY	1:50
M-39	BLOCK 4 BUILDING D 3RD FLOOR - PLUMBING SANITARY	1:50
M-40	BLOCK 4 BUILDING D 3RD FLOOR - PLUMBING SANITARY	1:50
M-41	BLOCK 4 BUILDING D 4TH FLOOR - PLUMBING SANITARY	1:50
M-42	BLOCK 4 BUILDING D 4TH FLOOR - PLUMBING SANITARY	1:50
M-43	BLOCK 4 BUILDING D ROOF PLAN - PLUMBING SANITARY	1:50
M-44	BLOCK 4 BUILDING D ROOF PLAN - PLUMBING SANITARY	1:50
M-45	TYPICAL SUITES UNITS LAYOUT - MECHANICAL	1:50
M-46	TYPICAL SUITES UNITS LAYOUT - MECHANICAL	1:50
M-47	TYPICAL SUITES UNITS LAYOUT - MECHANICAL	1:50
M-48	SCHEDULES AND SCHEMATIC	N.T.S.
M-49	GAS SCHEMATICS	N.T.S.
M-50	MECHANICAL DETAILS	N.T.S.
M-51	MECHANICAL DETAILS	N.T.S.
M-52	MECHANICAL DETAILS	N.T.S.

GAS CONSUMPTION

EQUIPMENT	LOCATION	LOAD (CFH)
TANKLESS COMBI BOILERS	EACH SUITE	
BBQ	EACH SUITE	
TOTAL	144 UNITS	
GENERATOR	GROUND FLOOR	
GRAND TOTAL		

REVISIONS

NO.	BY	DESCRIPTION	DATE
08	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
07	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
06	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
05	LB	ISSUED FOR PERMIT	SEP. 28, 2020
04	LB	ADDENDUM #04	JUN. 12, 2020
03	LB	ADDENDUM #03	MAR. 11, 2020
02	RC	ADDENDUM #02	SEP. 13, 2019
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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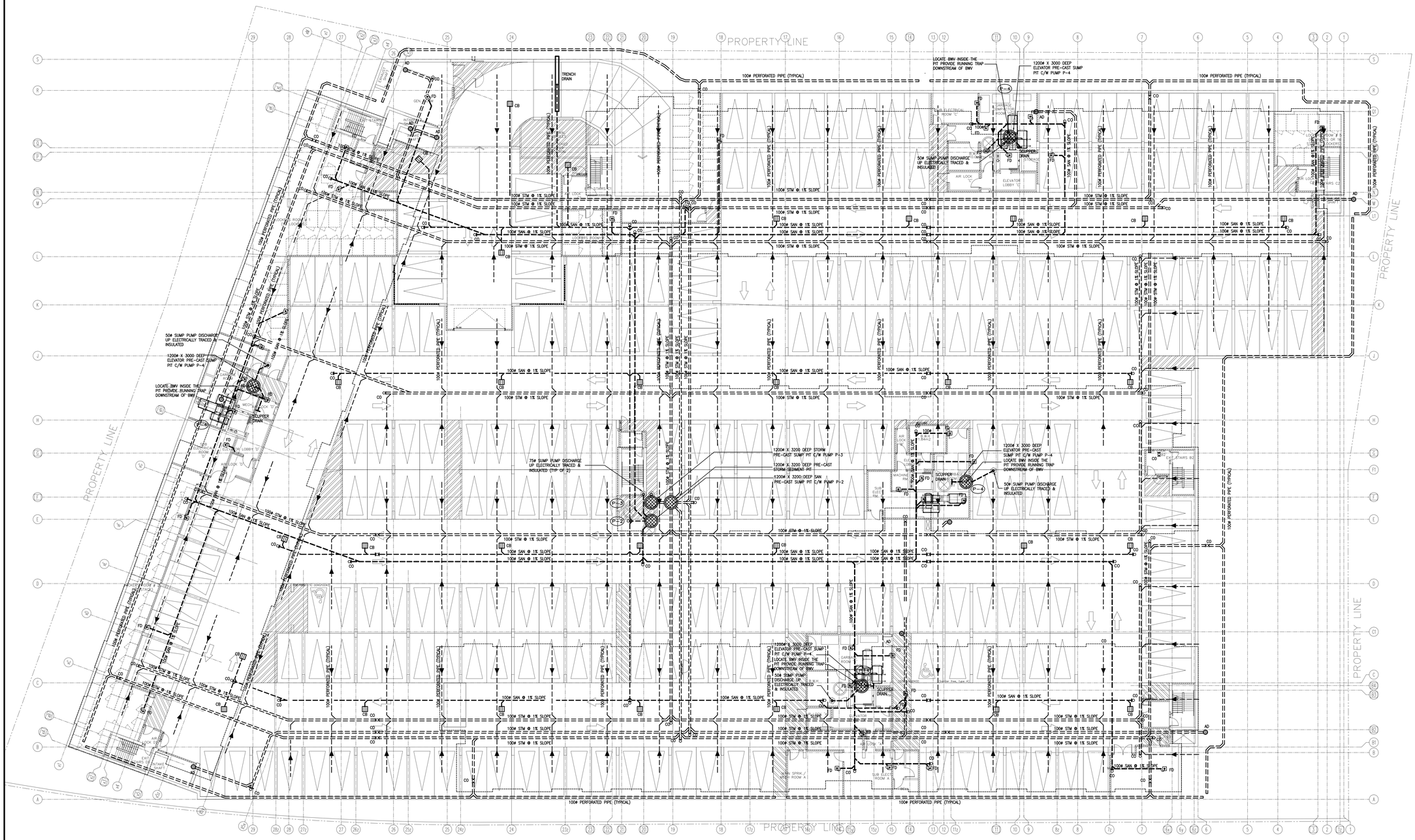
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100117067
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Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE
SITE PLAN - MECHANICAL

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:200
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-1
		OF -



NO.	BY	DESCRIPTION	DATE
07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
06	LB	ISSUED AS PER ADDENDUM M-06	MAR. 25, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED FOR PERMIT	SEP. 28, 2020
03	RC	ADDENDUM #04	JUN. 12, 2020
02	RC	ADDENDUM #02	SEP. 13, 2019
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

REVISIONS

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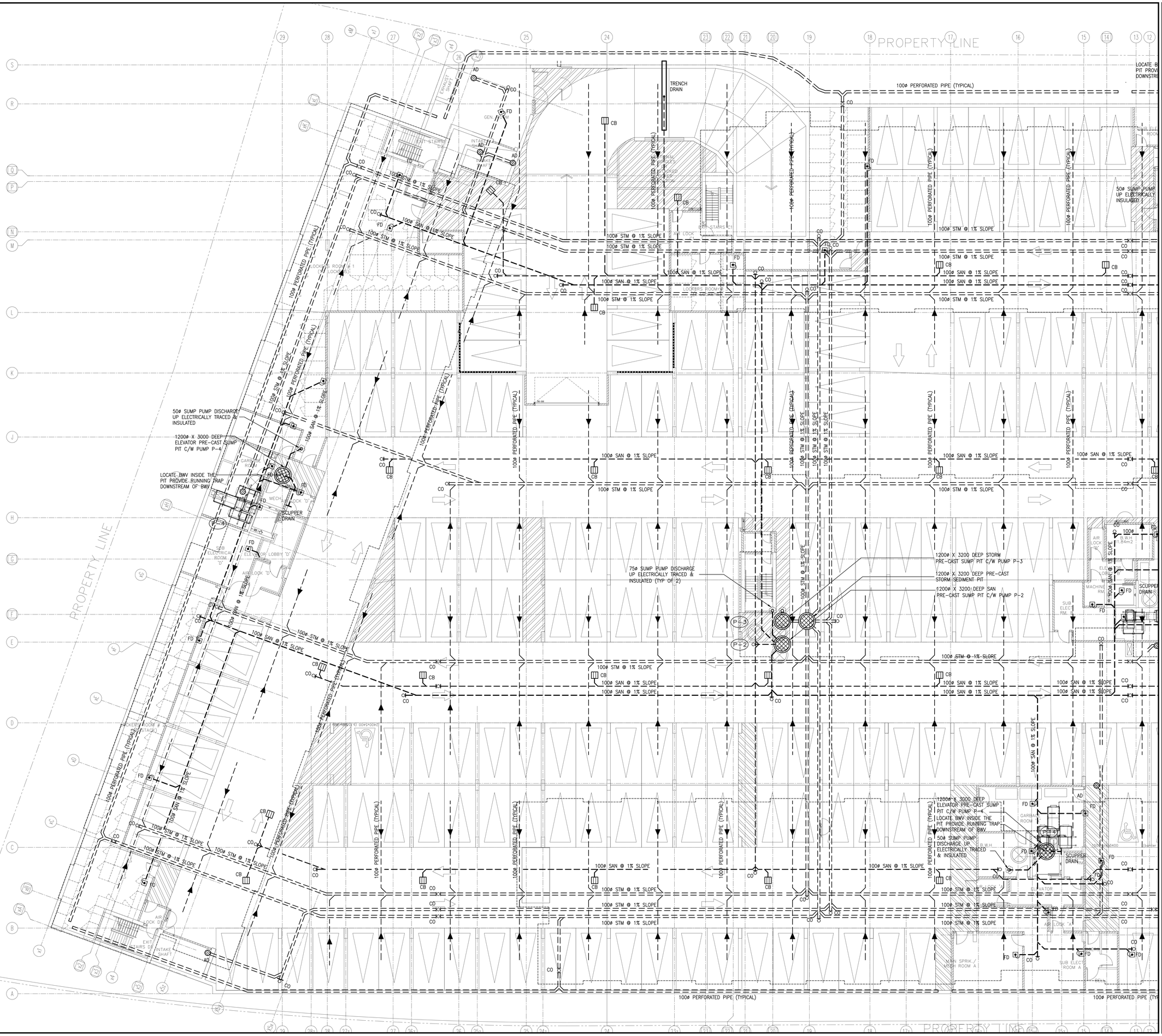
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TITLE
UNDERGROUND DRAINAGE LAYOUT MECHANICAL

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:150
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-2
		OF -



NO.	BY	DESCRIPTION	DATE
06	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED FOR PERMIT	SEP. 28, 2020
03	RC	ADDENDUM #04	JUN. 12, 2020
02	RC	ADDENDUM #02	SEP. 13, 2019
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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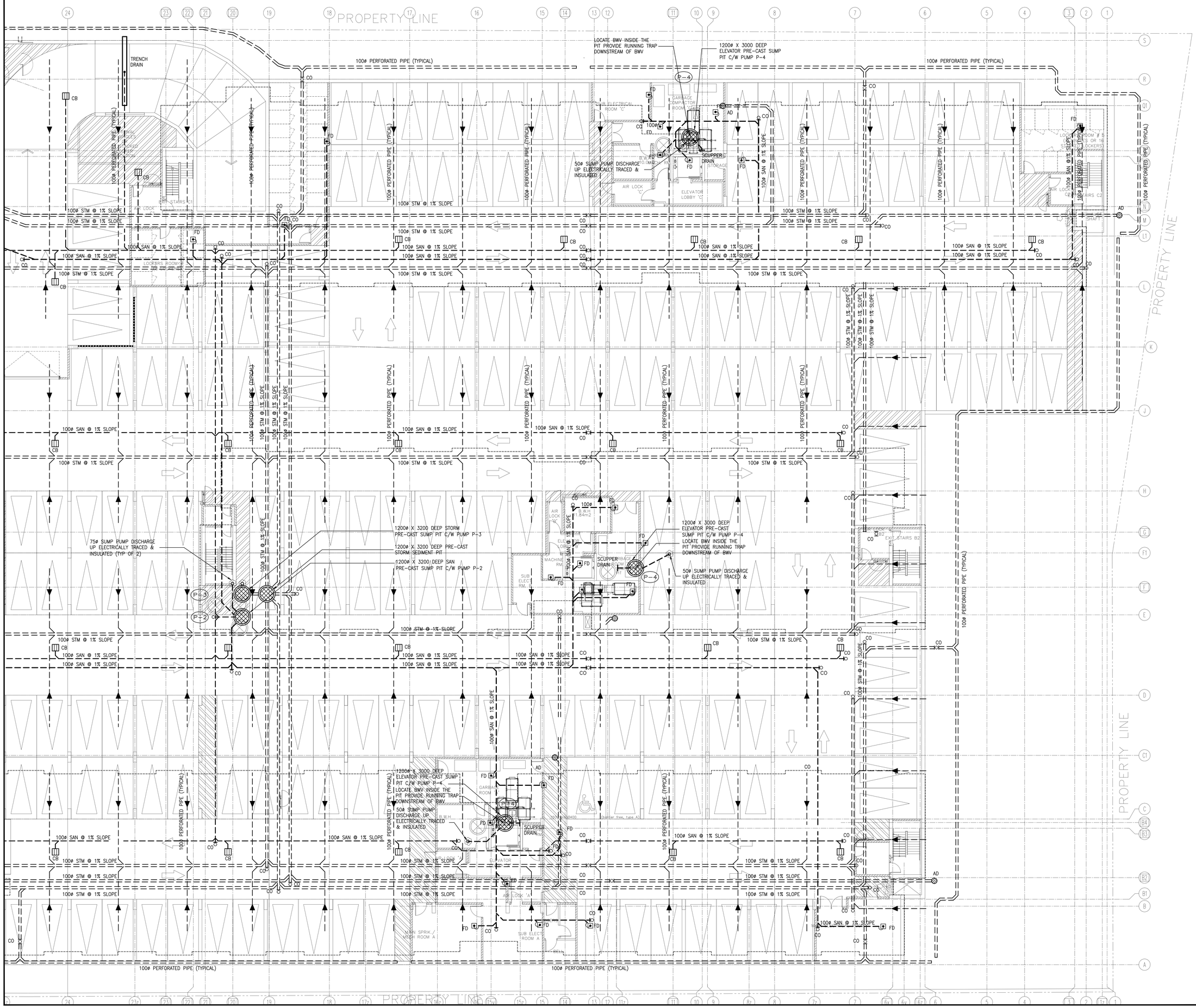
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TITLE
UNDERGROUND DRAINAGE LAYOUT MECHANICAL - PART 1

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:100
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-2A
		OF -



NO.	BY	DESCRIPTION	DATE
06	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED FOR PERMIT	SEP. 28, 2020
03	RC	ADDENDUM #04	JUN. 12, 2020
02	RC	ADDENDUM #02	SEP. 13, 2019
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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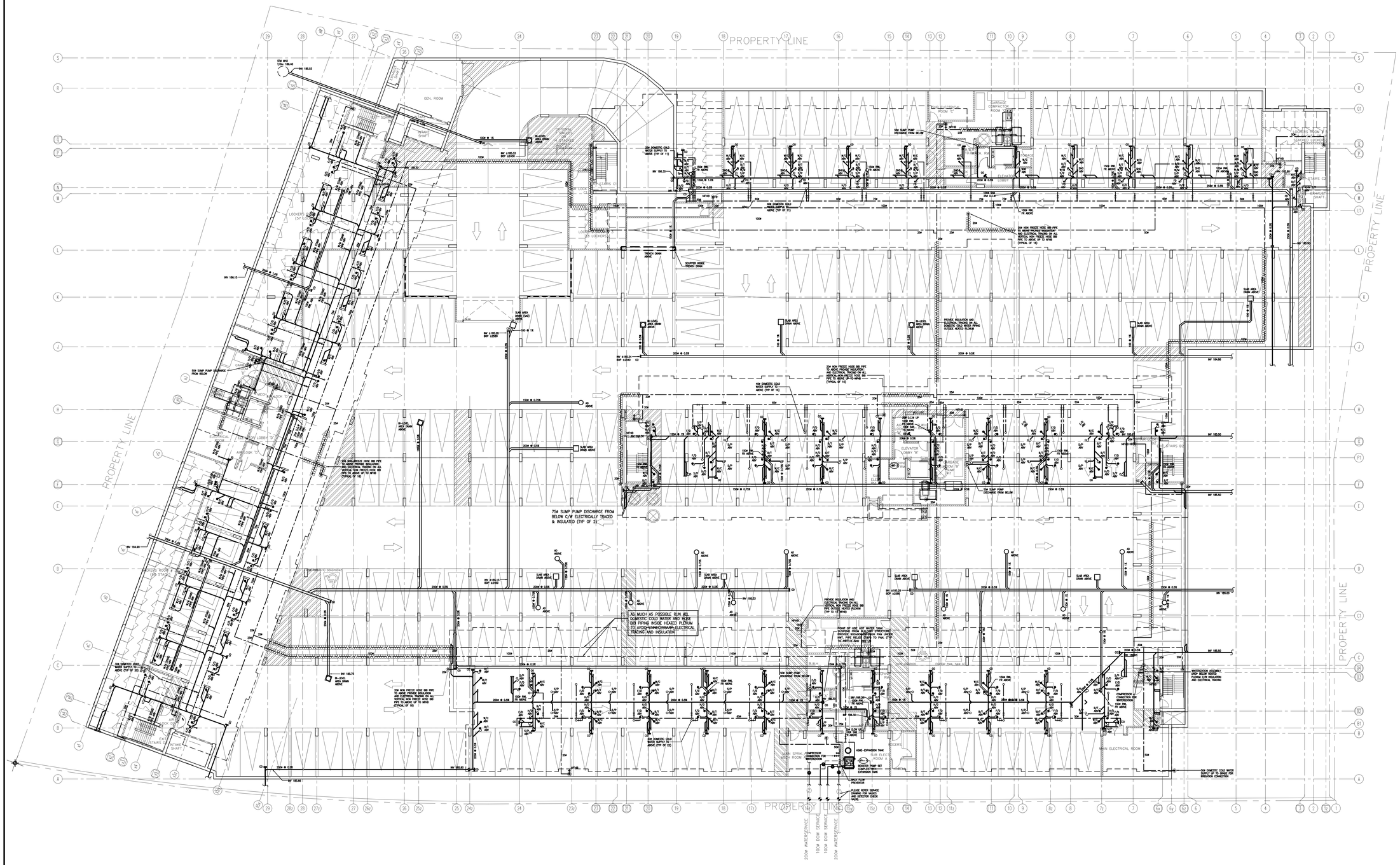
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TITLE
UNDERGROUND DRAINAGE LAYOUT MECHANICAL - PART 2

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:100
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-2B
		OF -



NO.	BY	DESCRIPTION	DATE
09	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
08	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
07	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
06	LB	ISSUED FOR PERMIT	SEP. 28, 2020
05	RC	ADDENDUM #04	JUN. 12, 2020
04	LB	ADDENDUM #03	MAR. 11, 2020
03	RC	ADDENDUM #02	SEP. 13, 2019
02	RC	ADDENDUM #01	AUG. 13, 2019
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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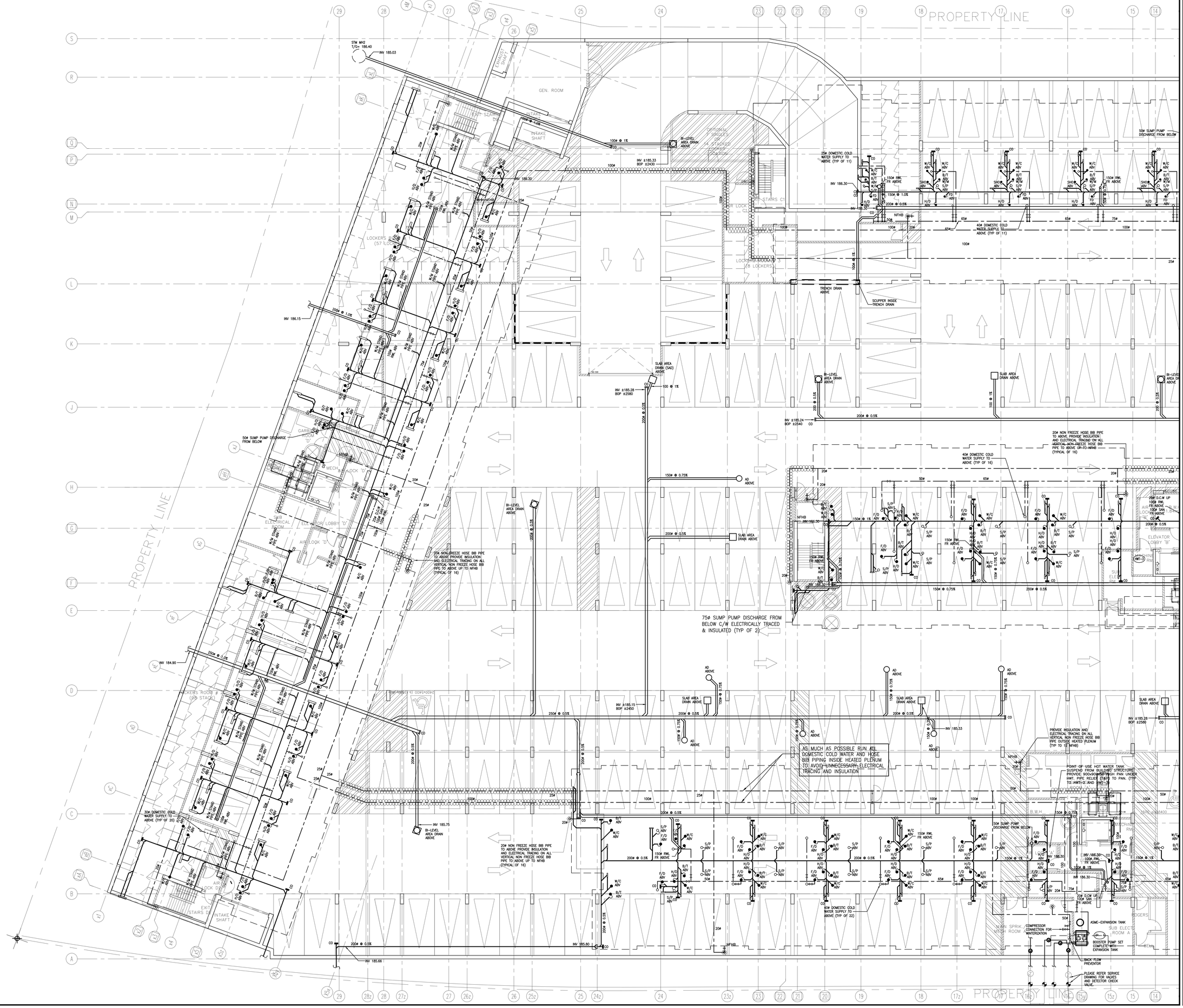
LICENCE PROFESSIONAL ENGINEER Y. HOU 100117097 PROVINCE OF ONTARIO

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TITLE
PARKING LEVEL - PLUMBING MECHANICAL

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:150
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-3
		OF -



NO.	BY	DESCRIPTION	DATE
06	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
05	LB	ISSUED FOR PERMIT	SEP. 28, 2020
04	RC	ADDENDUM #04	JUN. 12, 2020
03	RC	ADDENDUM #02	SEP. 13, 2019
02	RC	ADDENDUM #01	AUG. 13, 2019
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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TITLE
PARKING LEVEL - PLUMBING MECHANICAL - PART 1

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:100
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-3A
		OF -

PROPERTY LINE

OPTIONAL SINGLES OR 14 STACKED LOCKER LOCATION

LOCKERS ROOM 'A' (48 LOCKERS)

LOCKERS ROOM 'B' (48 LOCKERS)

STAIRS C1

STAIRS C2

SUB ELECTRICAL ROOM 'C'

GARBAGE COMPACTOR ROOM 'C'

B.W.H. TO GARBAGE ROOM

STORAGE ROOM 'B'

ELEVATOR LOBBY

ELEVATOR LOBBY 'B'

GARBAGE ROOM 'B' SUMP PIT

SUB ELECTRICAL ROOM 'B'

MACHINE RM. (MR-3)

EXHAUST SHAFT

B.W.H.

MACHINE RM.

SUB ELECTRICAL ROOM 'A'

MAIN SPRINKLER MECH. ROOM

MAIN ELECTRICAL ROOM

ROGERS

BI-LEVEL AREA DRAIN ABOVE

SLAB AREA DRAIN ABOVE

SLAB AREA DRAIN (SAD) ABOVE

TRENCH DRAIN ABOVE

SCUPPER INSIDE TRENCH DRAIN

NFHB

AD ABOVE

INV ±185.33 BOP ±2430

INV 186.30

INV 185.50

INV 185.90

INV 184.86

INV 185.50

INV 185.00

INV ±185.28 BOP ±2540

INV ±185.24 BOP ±2540

INV ±185.15 BOP ±2450

INV 185.80

INV 185.33

INV 186.30

INV 186.30

INV 186.60

50ø SUMP PUMP DISCHARGE FROM BELOW

25ø DOMESTIC COLD WATER SUPPLY TO ABOVE (TYP OF 11)

40ø DOMESTIC COLD WATER SUPPLY TO ABOVE (TYP OF 11)

40ø DOMESTIC COLD WATER SUPPLY TO ABOVE (TYP OF 16)

40ø DOMESTIC COLD WATER SUPPLY TO ABOVE (TYP OF 22)

20ø NON FREEZE HOSE BIB PIPE TO ABOVE. PROVIDE INSULATION AND ELECTRICAL TRACING ON ALL VERTICAL NON FREEZE HOSE BIB PIPE TO ABOVE UP TO NFHB (TYPICAL OF 16)

20ø NON FREEZE HOSE BIB PIPE TO ABOVE. PROVIDE INSULATION AND ELECTRICAL TRACING ON ALL VERTICAL-NON-FREEZE HOSE BIB PIPE TO ABOVE UP-TO-NFHB (TYPICAL OF 16)

PROVIDE INSULATION AND ELECTRICAL TRACING ON ALL DOMESTIC COLD WATER PIPING OUTSIDE HEATED PLENUM

PROVIDE INSULATION AND ELECTRICAL TRACING ON ALL VERTICAL NON FREEZE HOSE BIB PIPE OUTSIDE HEATED PLENUM (TYP TO 13 NFHB)

100ø SAN 25ø D.C.W

100ø RWL FR ABOVE

150ø RWL FR ABOVE

20ø D.C.W UP 100ø RWL FR ABOVE 100ø SAN FR ABOVE

AS MUCH AS POSSIBLE RUN ALL DOMESTIC COLD WATER AND HOSE BIB PIPING INSIDE HEATED PLENUM TO AVOID UNNECESSARY ELECTRICAL TRACING AND INSULATION

75ø SUMP PUMP DISCHARGE FROM BELOW C/W ELECTRICALLY TRACED & INSULATED (TYP OF 2)

POINT-OF-USE HOT WATER TANK SUSPEND FROM BUILDING STRUCTURE. PROVIDE 800x800x50 DRIP PAN UNDER HWT. PIPE RELIEF (T&P) TO PAN. (TYP TO HWT-1, 2, AND HWT-3)

ASME-EXPANSION TANK

BOOSTER PUMP SET COMPLETE WITH EXPANSION TANK

COMPRESSOR CONNECTION FOR WINTERIZATION

BACK FLOW PREVENTOR

PLEASE REFER SERVICE DRAWING FOR VALVES AND DETECTOR CHECK VALVE

WINTERIZATION ASSEMBLY DROP BELOW HEATED PLENUM C/W INSULATION AND ELECTRICAL TRACING

50ø DOMESTIC COLD WATER SUPPLY UP TO GRADE FOR IRRIGATION CONNECTION

NO.	BY	DESCRIPTION	DATE
07	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
06	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
05	LB	ISSUED FOR PERMIT	SEP. 28, 2020
04	RC	ADDENDUM #04	JUN. 12, 2020
03	RC	ADDENDUM #02	SEP. 13, 2019
02	RC	ADDENDUM #01	AUG. 13, 2019
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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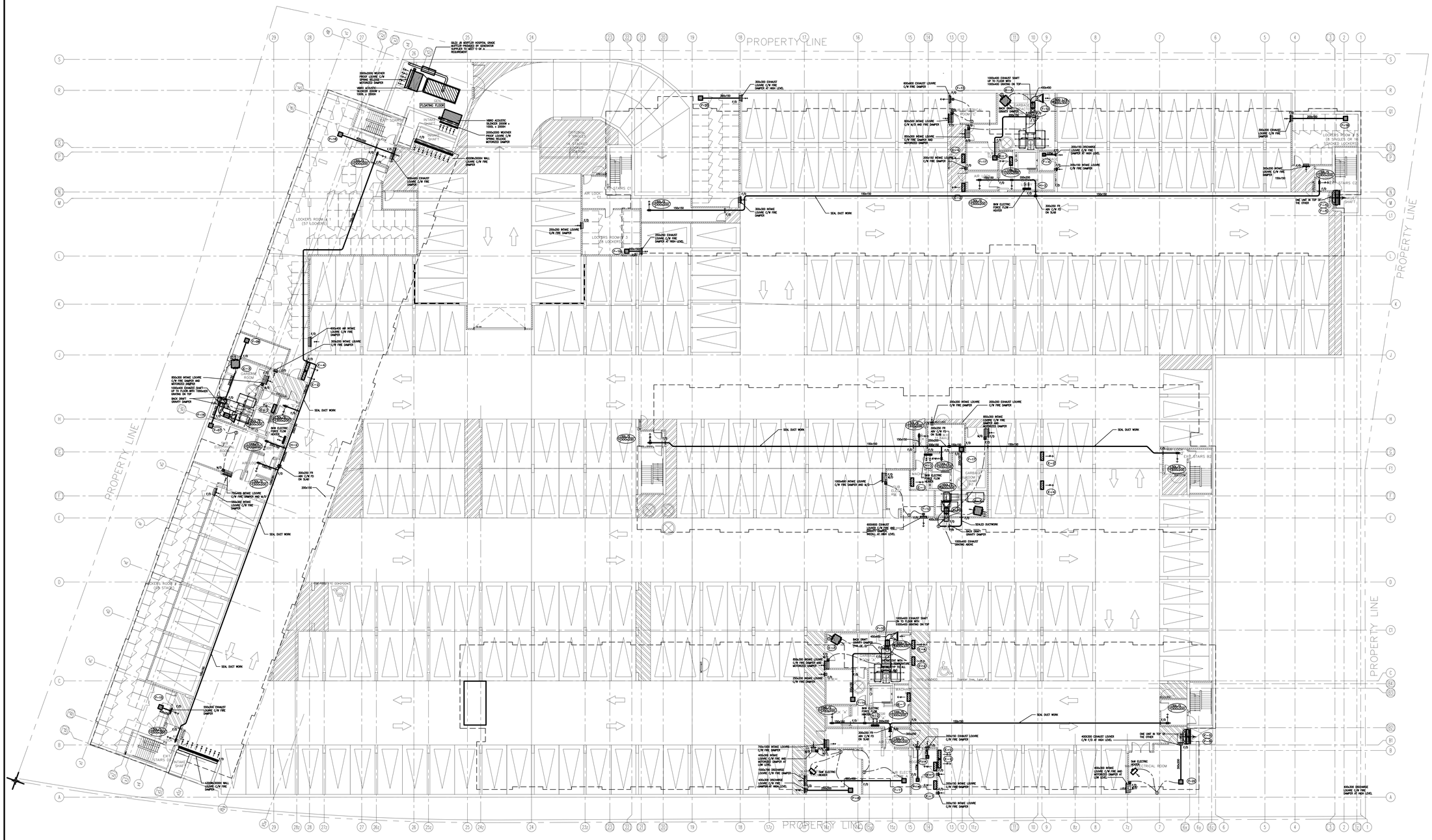
LICENSED PROFESSIONAL ENGINEER
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TITLE
PARKING LEVEL - PLUMBING MECHANICAL - PART 2

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:100
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-3B
		OF -



07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
06	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
05	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
04	LB	ISSUED FOR PERMIT	SEP. 28, 2020
03	RC	ADDENDUM #04	JUN. 12, 2020
02	RC	ADDENDUM #02	SEP. 13, 2019
01	RC	ISSUED FOR TENDER	AUG. 02, 2019
NO.	BY	DESCRIPTION	DATE

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LICENCED PROFESSIONAL ENGINEER
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TITLE
PARKING LEVEL - HVAC MECHANICAL

PROJECT

BRAMPTON STACKED FORESTSIDE ESTATES

ATTMAR + PALLESCHI DRIVE BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:150
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-4
		OF -

PROPERTY LINE

SILEX JB MUFFLER HOSPITAL GRADE MUFFLER PROVIDED BY GENERATOR SUPPLIER TO MEET 'C-OF-A' REQUIREMENT

2000x2000 WEATHER PROOF LOUVRE C/W SPRING RELEASE MOTORIZED DAMPER

VIBRO ACOUSTIC SILENCER 2000W x 1000L x 2000H

GEN. FLOATING FLOOR

EXIT STAIRS D2

INTAKE SHAFT

VIBRO ACOUSTIC SILENCER 2000W x 1000L x 2000H

2000x2000 WEATHER PROOF LOUVRE C/W SPRING RELEASE MOTORIZED DAMPER

4000Wx3000H WALL LOUVRE C/W FIRE DAMPER

600x400 EXHAUST LOUVRE C/W FIRE DAMPER

OPTIONAL 2 SINGLES OR 14 STACKED LOCKER LOCATION

EXIT STAIRS C1

AIR LOCK C1

LOCKERS ROOM # 1 (57 LOCKERS)

LOCKERS ROOM # 3 (6 LOCKERS)

LOCKERS ROOM # 2 (98 STACK)

300x300 EXHAUST LOUVRE C/W FIRE DAMPER AT HIGH LEVEL

600x600 EXHAUST LOUVRE C/W FIRE DAMPER

800x500 INTAKE LOUVRE C/W M/D AND FIRE DAMPER

850x300 INTAKE LOUVRE C/W FIRE DAMPER AND MOTORIZED DAMPER

200x150 INTAKE LOUVRE C/W FIRE DAMPER

300x300 INTAKE LOUVRE C/W FIRE DAMPER

SEAL DUCT WORK

250x250 INTAKE LOUVRE C/W FIRE DAMPER

250x250 EXHAUST LOUVRE C/W FIRE DAMPER AT TRICH LEVEL

600x400 AIR INTAKE LOUVRE C/W FIRE DAMPER

300x200 INTAKE LOUVRE C/W FIRE DAMPER

850x300 INTAKE LOUVRE C/W FIRE DAMPER AND MOTORIZED DAMPER

1000x400 EXHAUST SHAFT UP TO FLOOR WITH 1000x400 GRATING ON TOP

BACK DRAFT GRAVITY DAMPER

GARBAGE ROOM

SUB ELECTRICAL ROOM 'D'

AIR LOCK

5KW ELECTRIC FORCE FLOW HEATER

300x250 FR ABV C/W FD ON SLAB

750x400 INTAKE LOUVRE C/W FIRE DAMPER AND M/D

550x300 INTAKE LOUVRE C/W FIRE DAMPER

SEAL DUCT WORK

LOCKERS ROOM # 4 (98 STACK)

550x300 EXHAUST LOUVRE C/W FIRE DAMPER

EXIT STAIRS D1

INTAKE SHAFT

4300Wx3000H WALL LOUVRE C/W FIRE DAMPER

1000x600 INTAKE LOUVRE C/W FIRE DAMPER AND M/D

SUB ELECT RM.

600X600 EXHAUST LOUVRE C/W FIRE AND GRAVITY DAMPER INSTALL AT HIGH LEVEL

CHEMOSTAT WITH OUTDOOR TEMPERATURE SENSOR TYP TO ALL GARAGE RM

700x1000 INTAKE LOUVRE C/W FIRE DAMPER

400x300 INTAKE LOUVRE C/W FIRE AND MOTORIZED DAMPER AT LOW LEVEL

1000x700 DISCHARGE LOUVRE C/W FIRE DAMPER

400x300 DISCHARGE LOUVRE C/W FIRE DAMPER AT HIGH LEVEL

PROPERTY LINE

NO.	BY	DESCRIPTION	DATE
07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
06	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
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04	LB	ISSUED FOR PERMIT	SEP. 28, 2020
03	RC	ADDENDUM #04	JUN. 12, 2020
02	RC	ADDENDUM #02	SEP. 13, 2019
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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TITLE
PARKING LEVEL - HVAC MECHANICAL - PART 1

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:100
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-4A
		OF -

(E) MUFFLER HOSPITAL GRADE
R PROVIDED BY GENERATOR
OR TO MEET C-OF..A.
EMENT

PROPERTY LINE

VIBRO ACOUSTIC SILENCER 2000W x 1000L x 2000H

2000x2000 WEATHER PROOF LOUVRE C/W SPRING RELEASE MOTORIZED DAMPER

4000Wx3000H WALL LOUVRE C/W FIRE DAMPER

OPTIONAL 2 SINGLES OR 14 STACKED LOCKERS LOCATION

EXIT STAIRS C1

AIR LOCK C1

LOCKERS ROOM # 3 (8 LOCKERS)

250x250 INTAKE LOUVRE C/W FIRE DAMPER

250x250 EXHAUST LOUVRE C/W FIRE DAMPER AT HIGH LEVEL

300x300 EXHAUST LOUVRE C/W FIRE DAMPER AT HIGH LEVEL

300x300 INTAKE LOUVRE C/W FIRE DAMPER

SEAL DUCT WORK

600x600 EXHAUST LOUVRE C/W FIRE DAMPER

800x500 INTAKE LOUVRE C/W M/D AND FIRE DAMPER

850x200 INTAKE LOUVRE C/W FIRE DAMPER AND MOTORIZED DAMPER

200x150 INTAKE LOUVRE C/W FIRE DAMPER

1000x400 EXHAUST SHAFT UP TO FLOOR WITH 1000x400 GRATING ON TOP

BACK DRAFT GRAVITY DAMPER

GARBAGE ROOM "C"

ELECTRICAL ROOM "C"

200x150 DISCHARGE LOUVRE C/W FIRE DAMPER AT HIGH LEVEL

200x150 INTAKE LOUVRE C/W FIRE DAMPER

AIR LOCK

LOBBY

8KW ELECTRIC FORCE FLOW HEATER

300x250 FR ADV C/W FD ON SLAB

300x200 EXHAUST LOUVRE C/W FIRE DAMPER

ONE UNIT IN TOP OF THE OTHER

EXHAUST SHAFT

LOCKERS ROOM # 5 (8 SINGLES OR 16 STACKED LOCKERS)

EXIT STAIRS C2

300x200 INTAKE LOUVRE C/W FIRE DAMPER

200x200 INTAKE LOUVRE C/W FIRE DAMPER

200x200 EXHAUST LOUVRE C/W FIRE DAMPER

850x300 INTAKE LOUVRE C/W FIRE DAMPER AND MOTORIZED DAMPER

300x250 FR ADV C/W FD ON SLAB

W/H

MACHINE ROOM

1000x600 INTAKE LOUVRE C/W FIRE DAMPER AND M/D

SUB ELECT. RM.

BKW ELECTRIC FORCE FLOW HEATER

GARBAGE ROOM "B" SUMP PIT

600X600 EXHAUST LOUVER C/W FIRE AND GRAVITY DAMPER, INSTALL AT HIGH LEVEL

SEALED DUCTWORK

BACK DRAFT GRAVITY DAMPER

1000x400 EXHAUST GRATING ABOVE

1000x400 EXHAUST SHAFT ON TO FLOOR WITH 1000x400 GRATING ON TOP

BACK DRAFT GRAVITY DAMPER (TYP. OF 3)

THERMOSTAT WITH AUTOCHANGEOVER TEMPERATURE SENSOR TO ALL GARAGE RM

GARBAGE ROOM "A"

(barrier free, type A)

AIR LOCK

LOBBY

700x1000 INTAKE LOUVRE C/W FIRE DAMPER

400x300 INTAKE LOUVRE C/W FIRE AND MOTORIZED DAMPER AT LOW LEVEL

1000x700 DISCHARGE LOUVRE C/W FIRE DAMPER

400x300 DISCHARGE LOUVRE C/W FIRE DAMPER AT HIGH LEVEL

5kW ELECTRIC HEATER

MACHINE ROOM

SUB ELECT. ROOM "A"

200x150 INTAKE LOUVRE C/W FIRE DAMPER

400X300 EXHAUST LOUVER C/W F/D AT HIGH LEVEL

400x300 INTAKE LOUVRE C/W FIRE AND MOTORIZED DAMPER AT LOW LEVEL

5kW ELECTRIC HEATER

ELECTRICAL ROOM

400x300 DISCHARGE LOUVRE C/W FIRE DAMPER AT HIGH LEVEL

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02	RC	ADDENDUM #02	SEP. 13, 2019
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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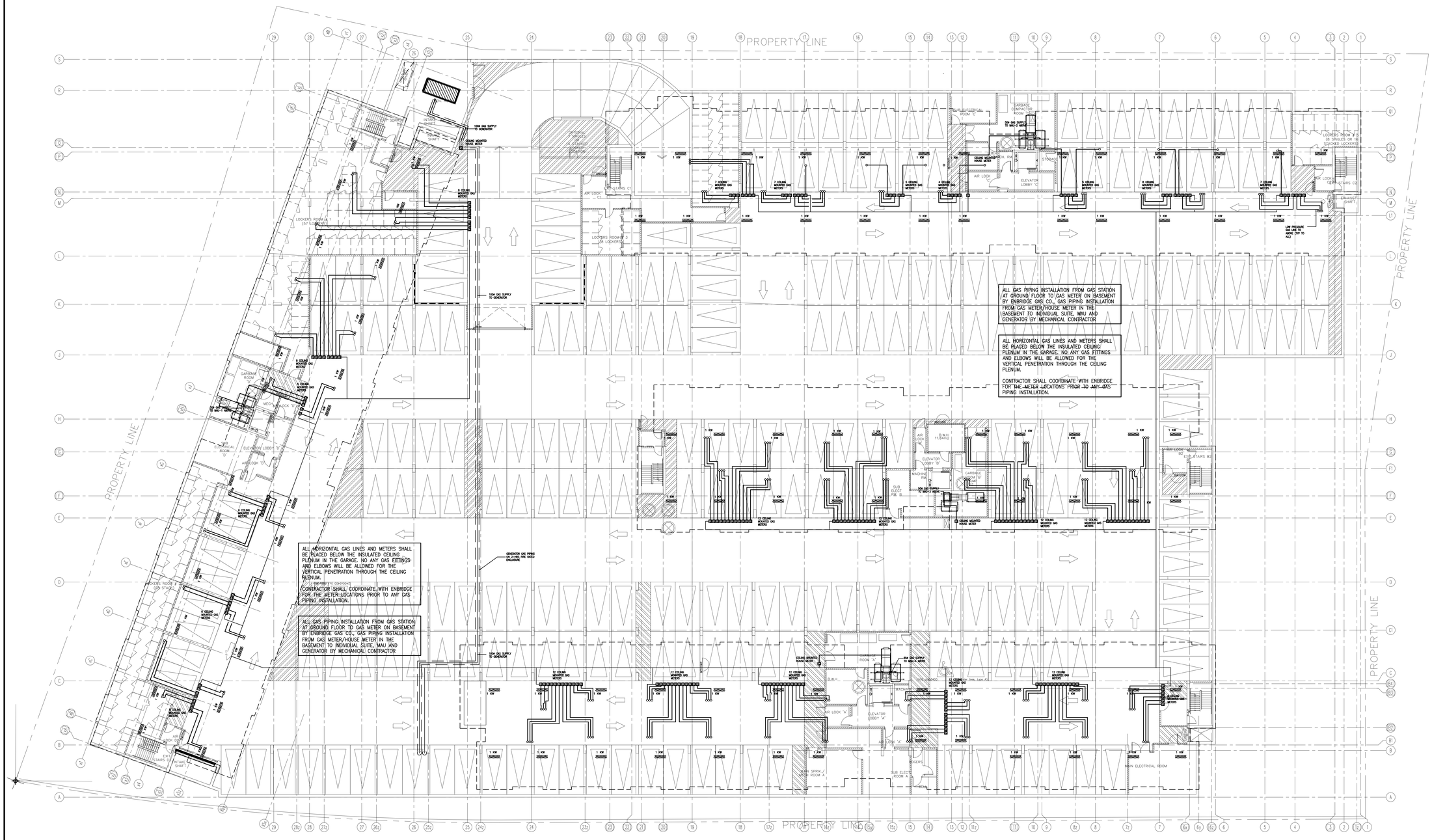
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TITLE
PARKING LEVEL - HVAC MECHANICAL - PART 2

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:100
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-4B
		OF -



06	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
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NO.	BY	DESCRIPTION	DATE

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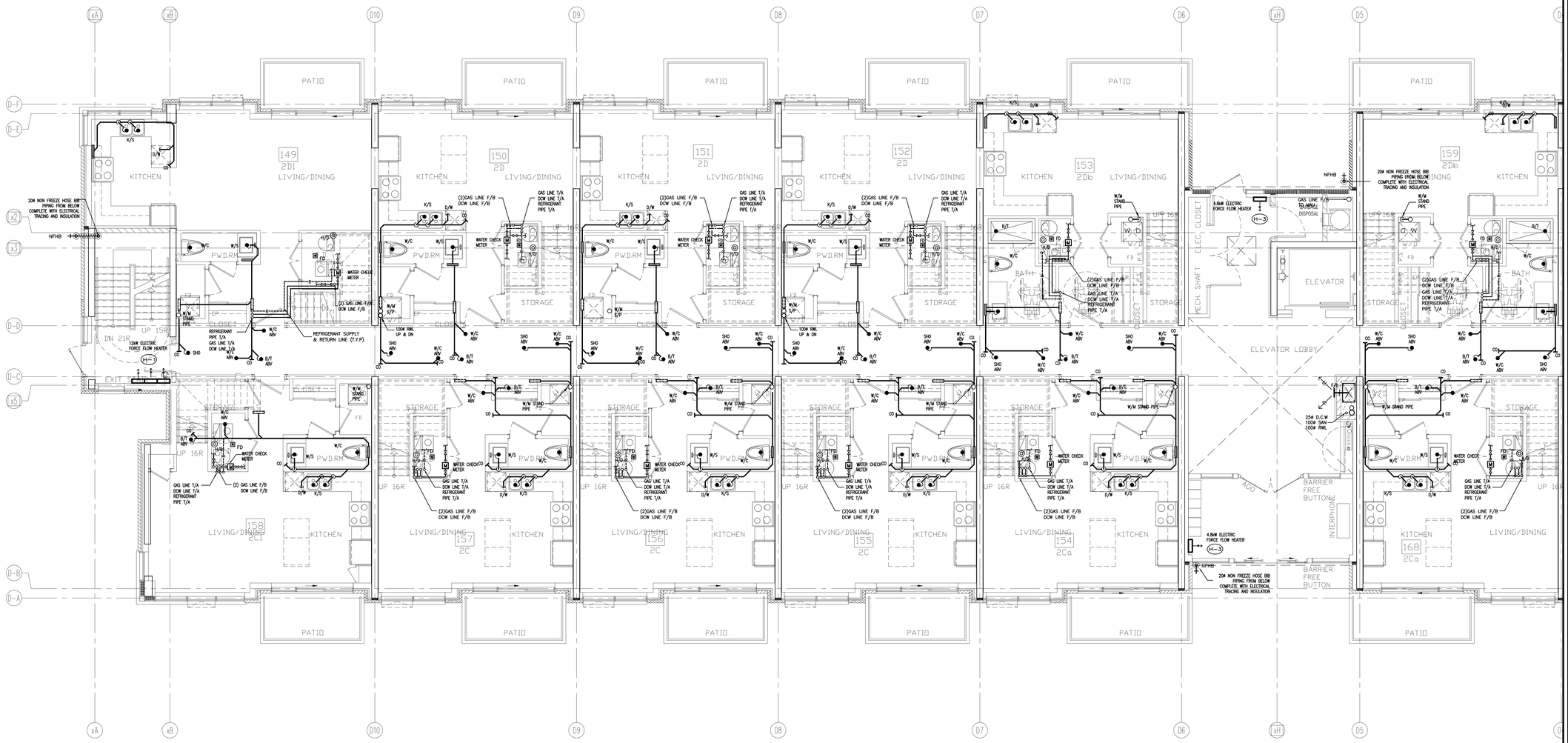
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TITLE
PARKING LEVEL - HVAC + GAS MECHANICAL

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:150
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-4C
		OF -



06	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
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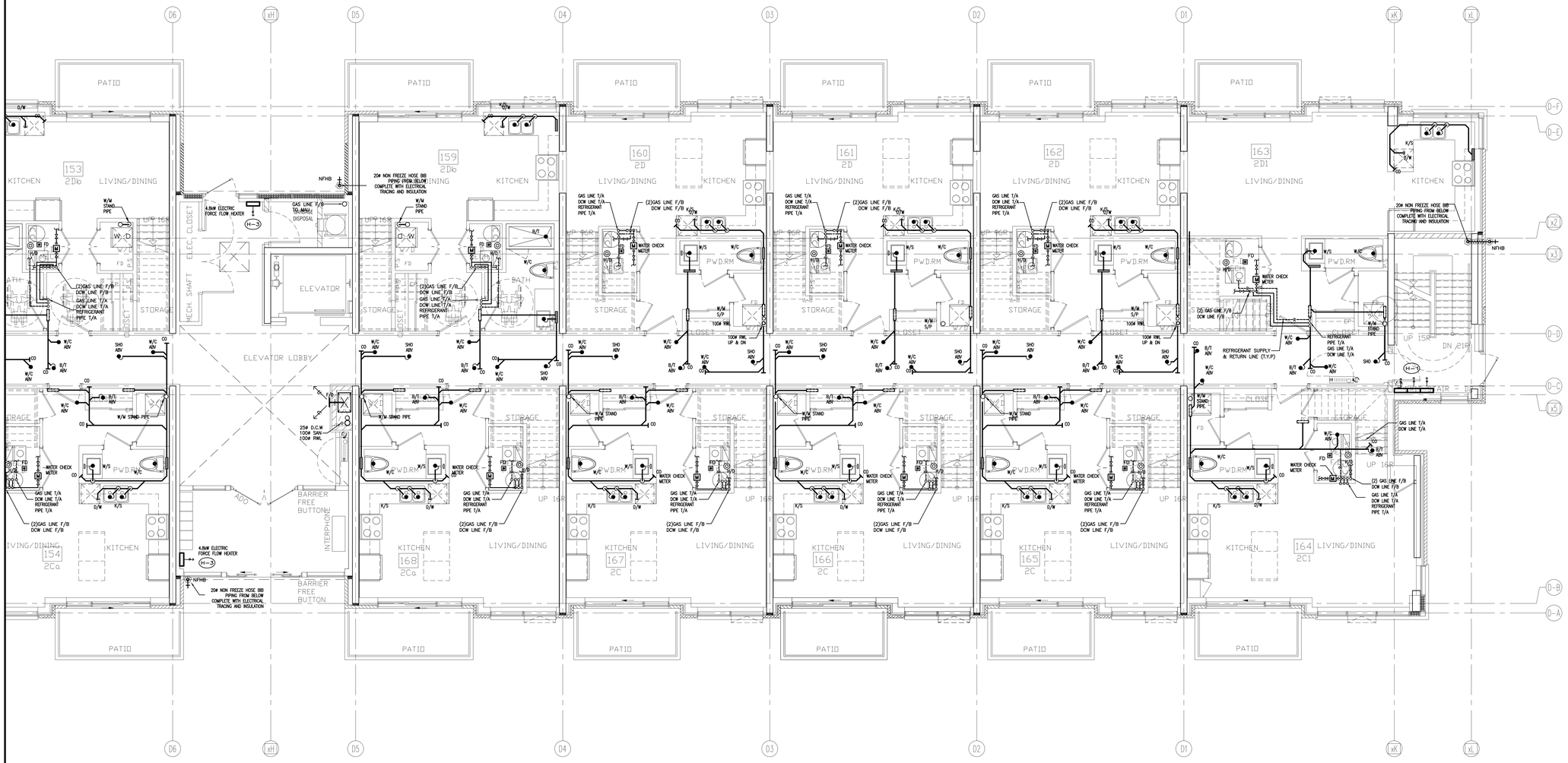
TITLE
BLOCK 'D'
GROUND FLOOR - PLUMBING/SANITARY

PROJECT

BRAMPTON STACKED FORESTSIDE ESTATES

ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-5
		OF -



NO.	BY	DESCRIPTION	DATE
07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
06	LB	ISSUED AS PER ADDENDUM M-06	MAR. 25, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
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02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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TITLE
BLOCK 'D'
GROUND FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-6
		OF -



06	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
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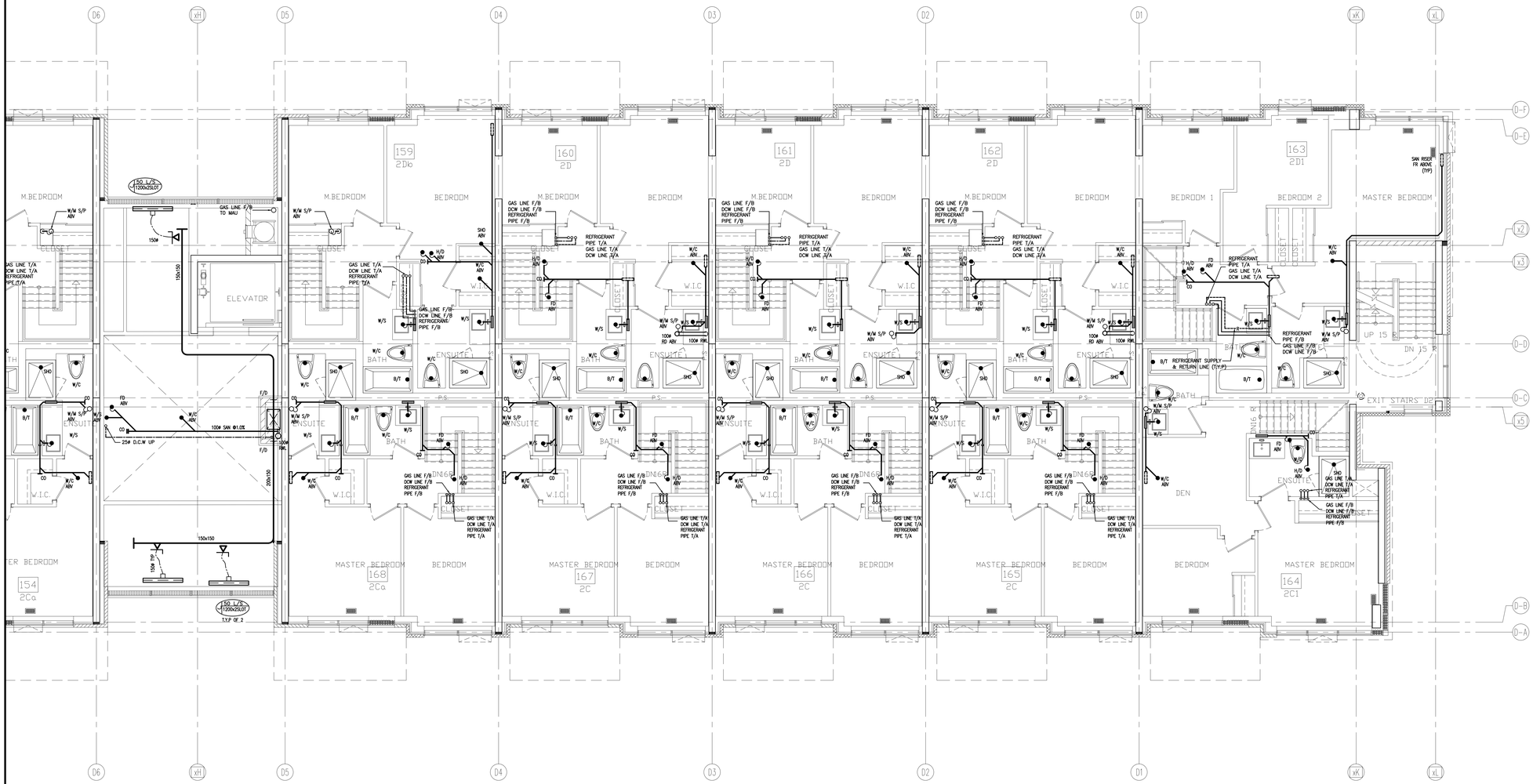
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TITLE
BLOCK 'D'
2ND FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN: MC	CHECKED: LM	SCALE: 1:50
DATE: MAY, 2019	PROJECT: 18-017	DRAWING: M-7
		OF: -



NO.	BY	DESCRIPTION	DATE
07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
06	LB	ISSUED AS PER ADDENDUM M-06	MAR. 25, 2021
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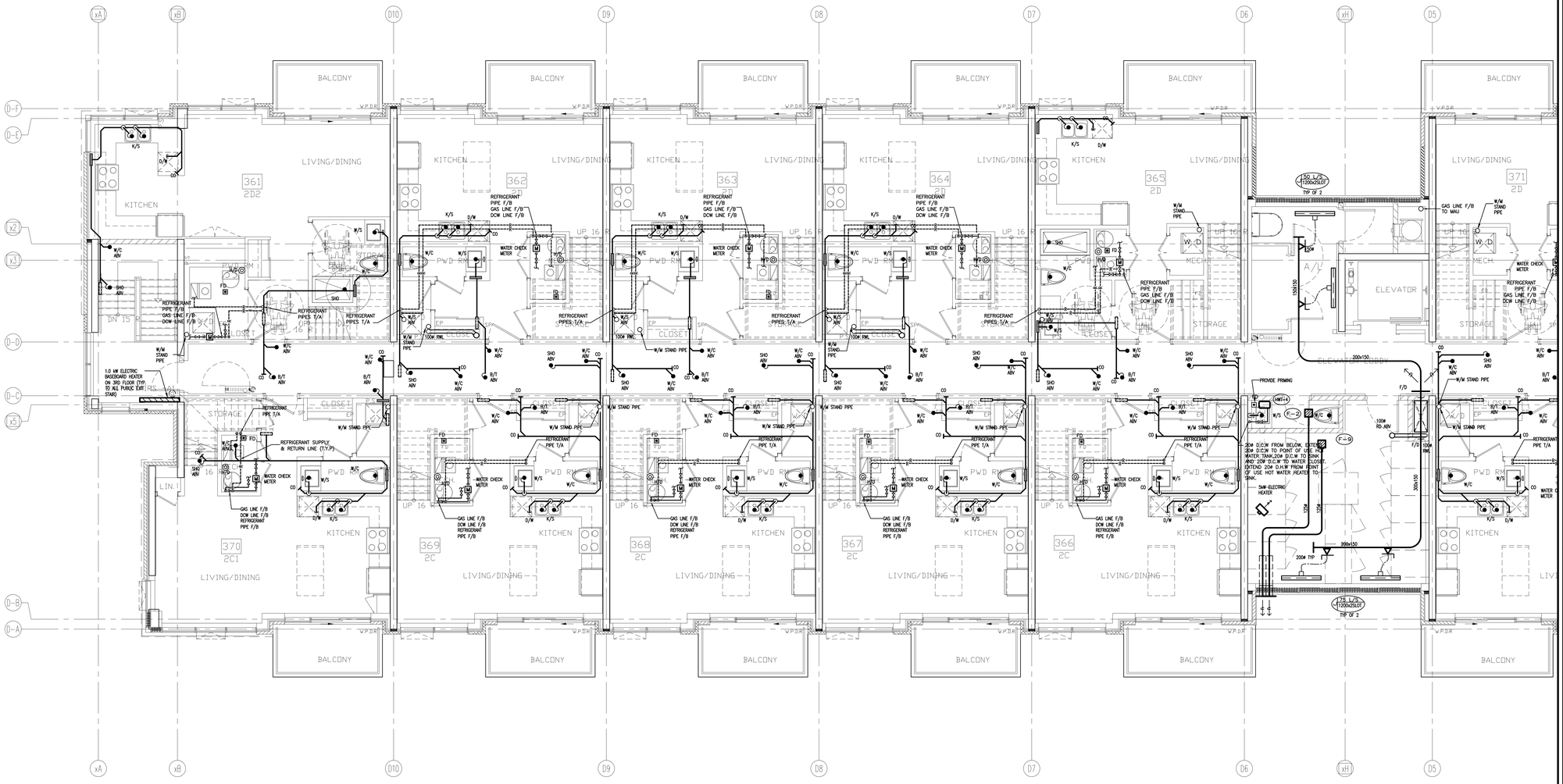
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TITLE
BLOCK 'D'
2ND FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-8
		OF -



NO.	BY	DESCRIPTION	DATE
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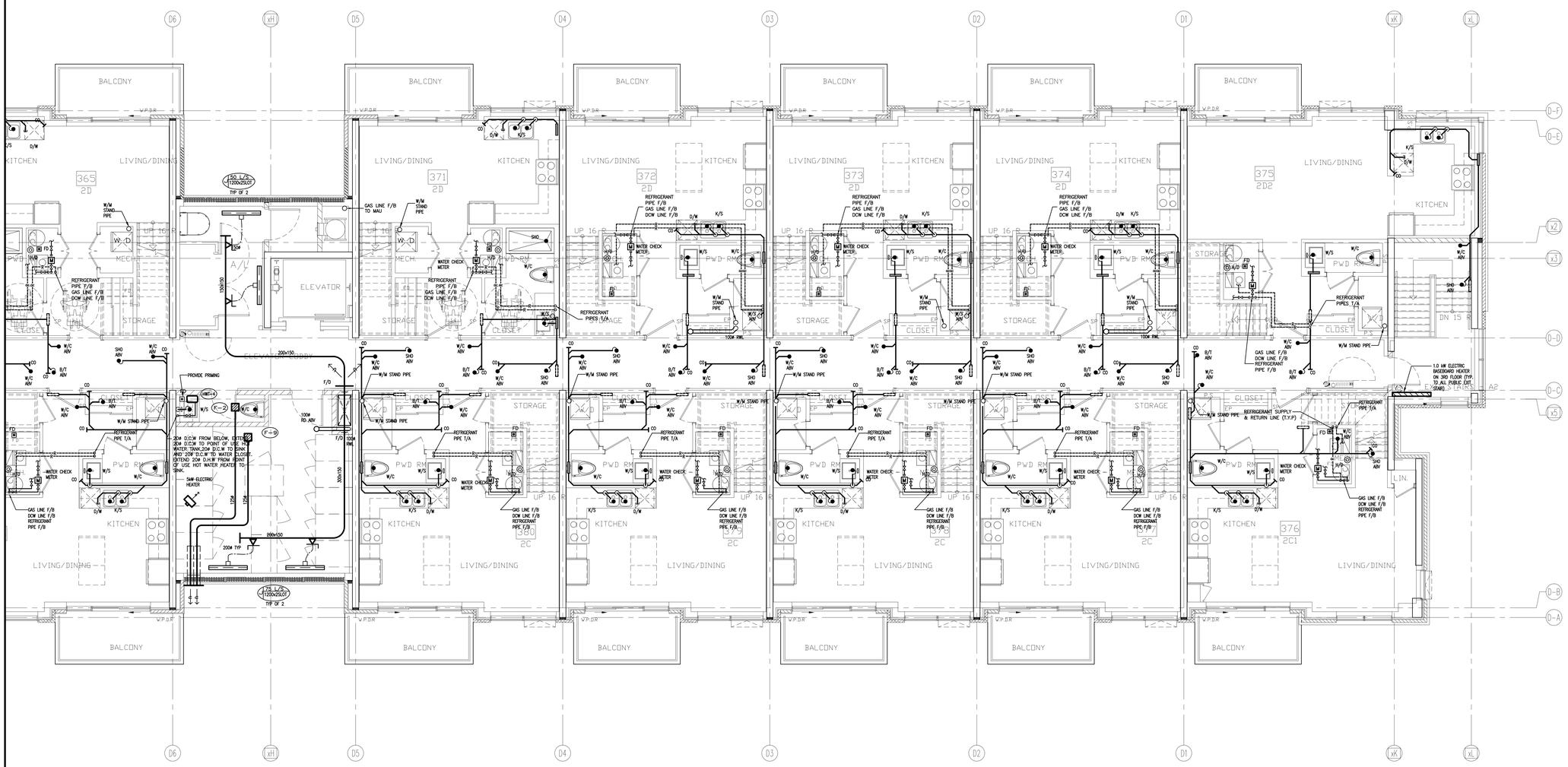
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TITLE
BLOCK 'D'
3RD FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-9
		OF -



07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
06	LB	ISSUED AS PER ADDENDUM M-06	MAR. 25, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
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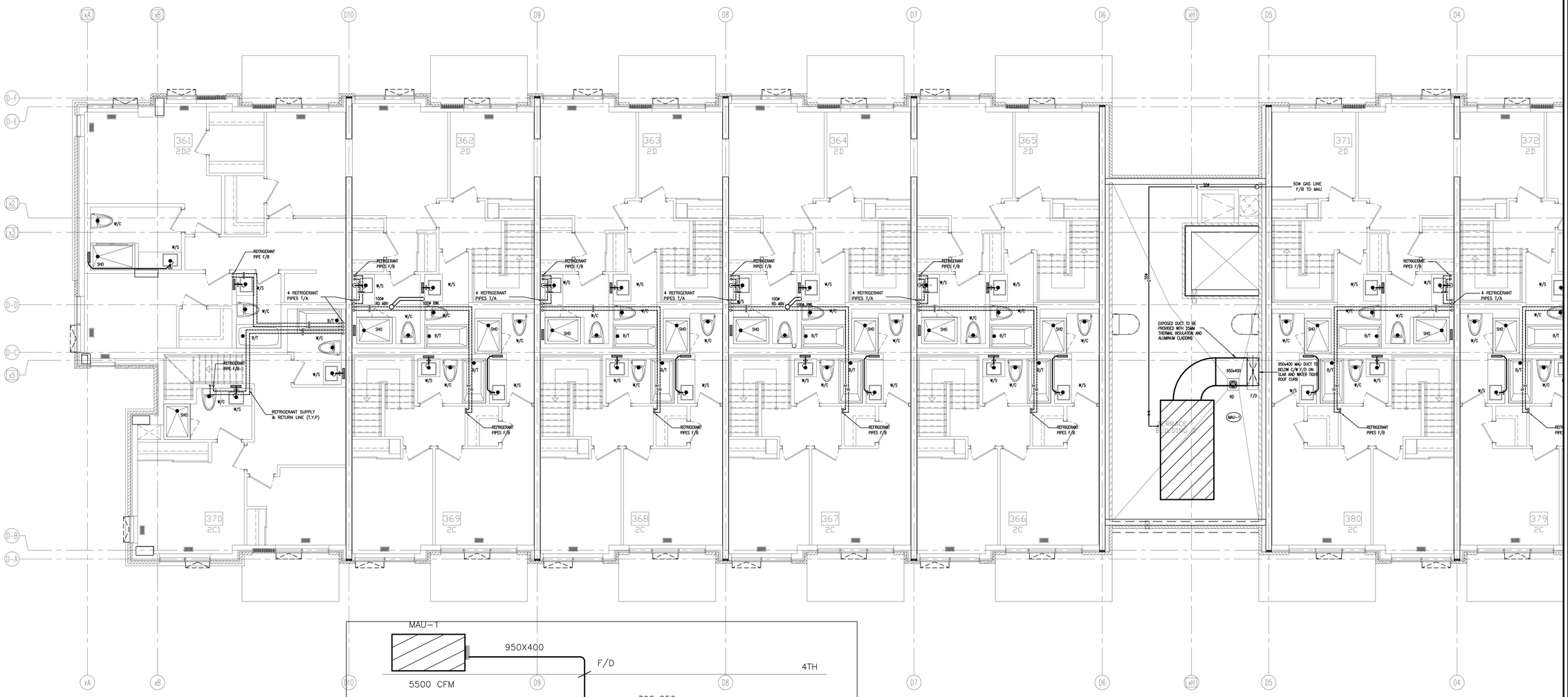
TITLE
BLOCK 'D'
3RD FLOOR - PLUMBING/SANITARY

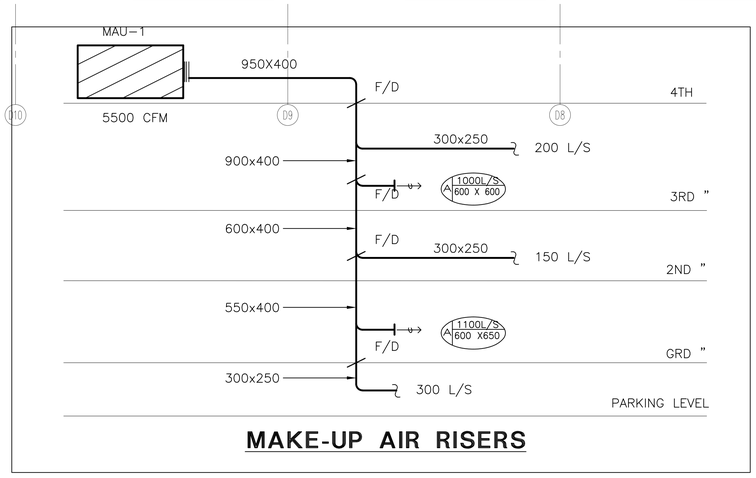
PROJECT

BRAMPTON STACKED FORESTSIDE ESTATES

ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN: MC	CHECKED: LM	SCALE: 1:50
DATE: MAY, 2019	PROJECT: 18-017	DRAWING: M-10
		OF: -





MAKE-UP AIR RISERS

NO.	BY	DESCRIPTION	DATE
07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
06	LB	ISSUED AS PER ADDENDUM M-06	MAR. 25, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

REVISIONS

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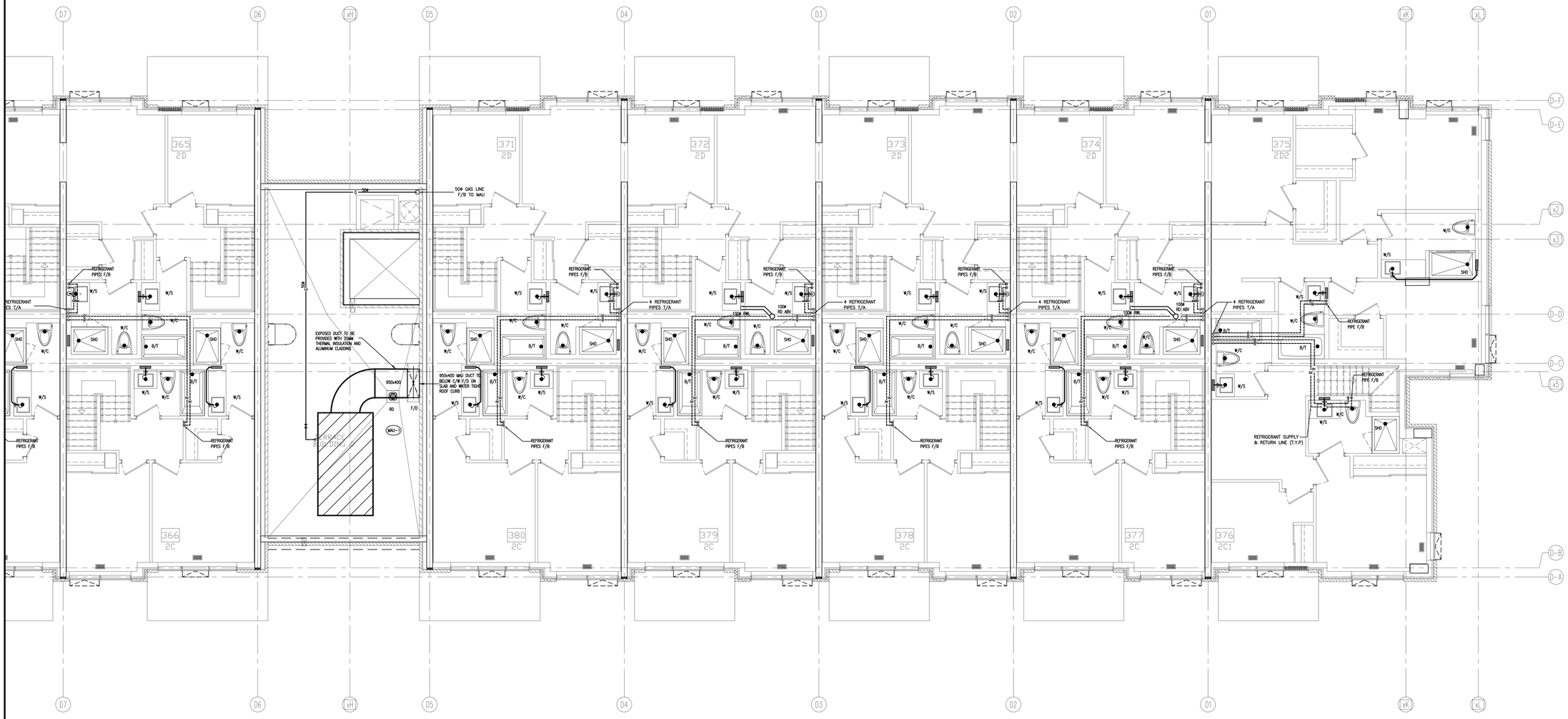
LICENCED PROFESSIONAL ENGINEER
Y. HOU
100117087
PROVINCE OF ONTARIO

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Mechanical Electrical Consulting Engineers
3645 Keele Street, Suite 105,
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Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE
BLOCK 'D'
4TH FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-11
		OF -



NO.	BY	DESCRIPTION	DATE
07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
06	LB	ISSUED AS PER ADDENDUM M-06	MAR. 25, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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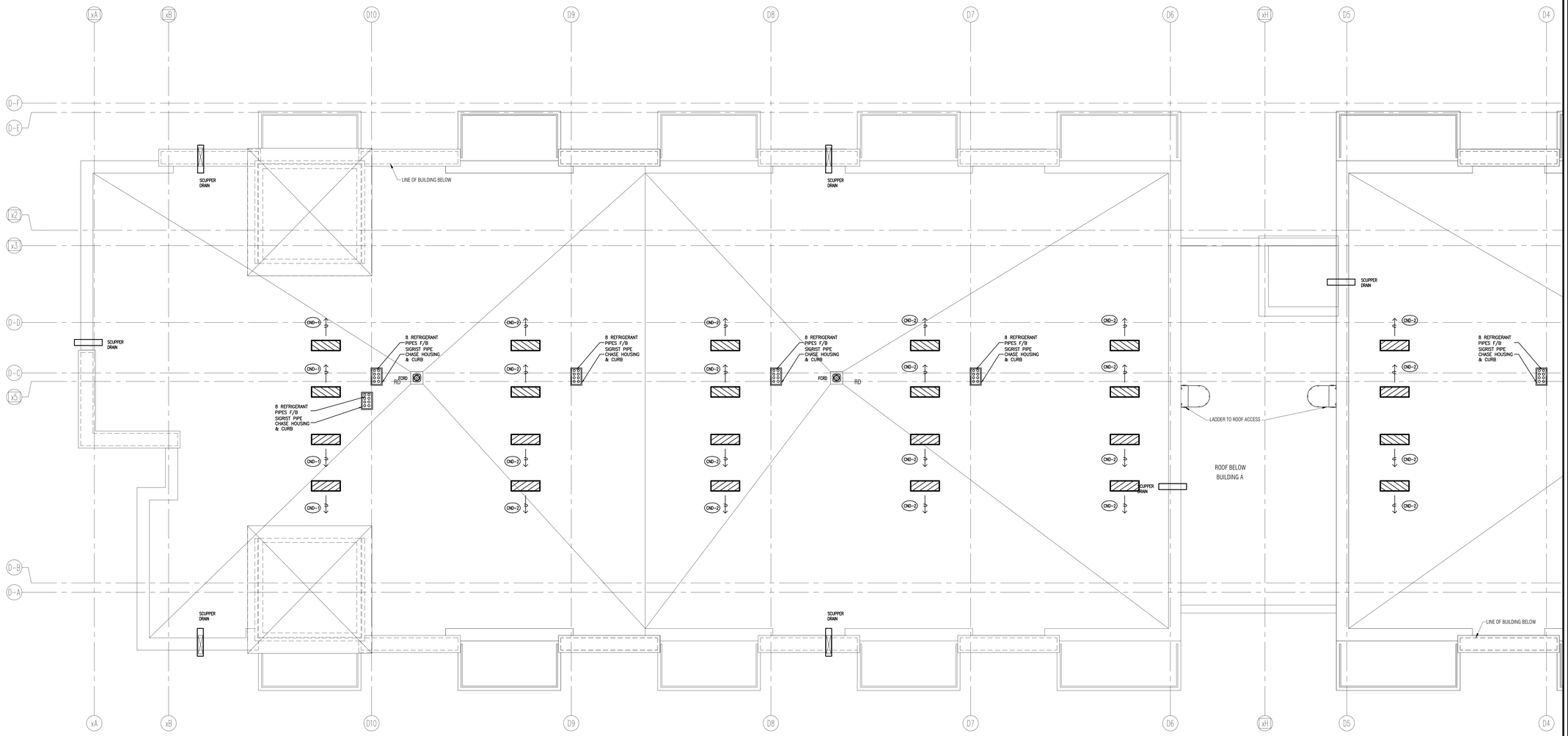
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TITLE
BLOCK 'D'
3RD FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-12
		OF -



NO.	BY	DESCRIPTION	DATE
06	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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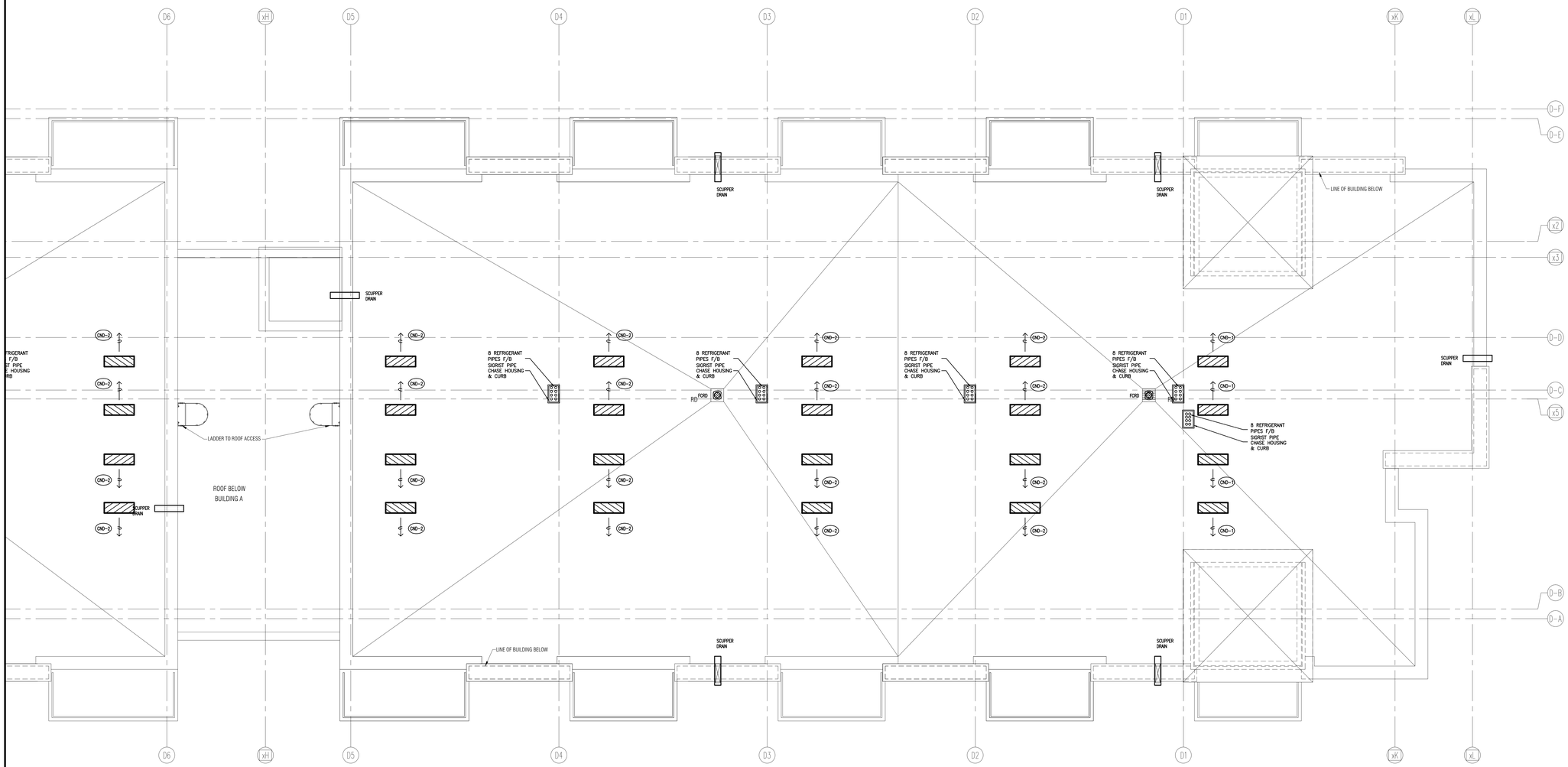
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TITLE
BLOCK 'D'
ROOF - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-13
		OF -



NO.	BY	DESCRIPTION	DATE
06	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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TITLE
BLOCK 'D'
ROOF - PLUMBING/SANITARY

PROJECT

BRAMPTON STACKED FORESTSIDE ESTATES

ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-14
		OF -



NO.	BY	DESCRIPTION	DATE
06	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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TITLE
BLOCK 'C'
GROUND FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-15
		OF -



NO.	BY	DESCRIPTION	DATE
07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
06	LB	ISSUED AS PER ADDENDUM M-06	MAR. 25, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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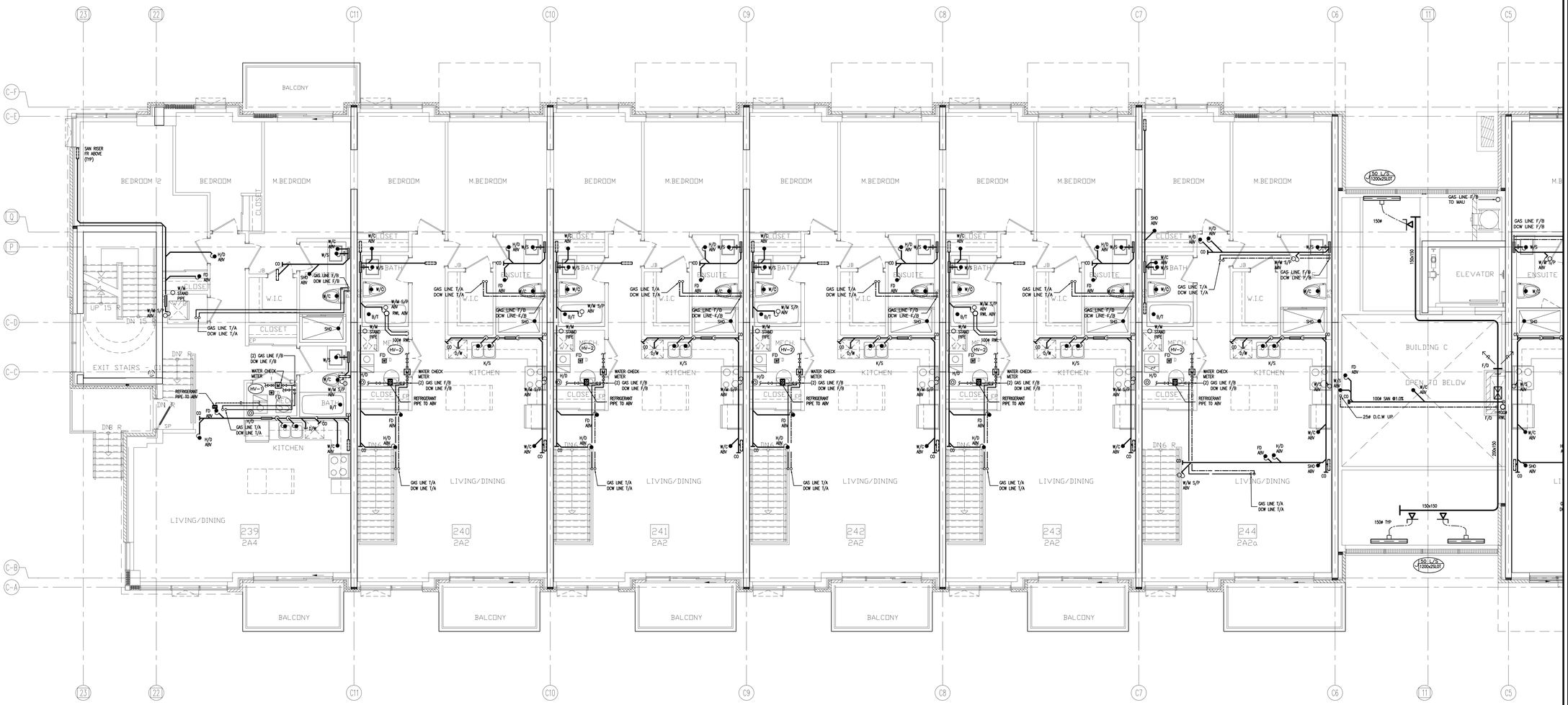
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TITLE
BLOCK 'C'
GROUND FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-16
		OF -



NO.	BY	DESCRIPTION	DATE
06	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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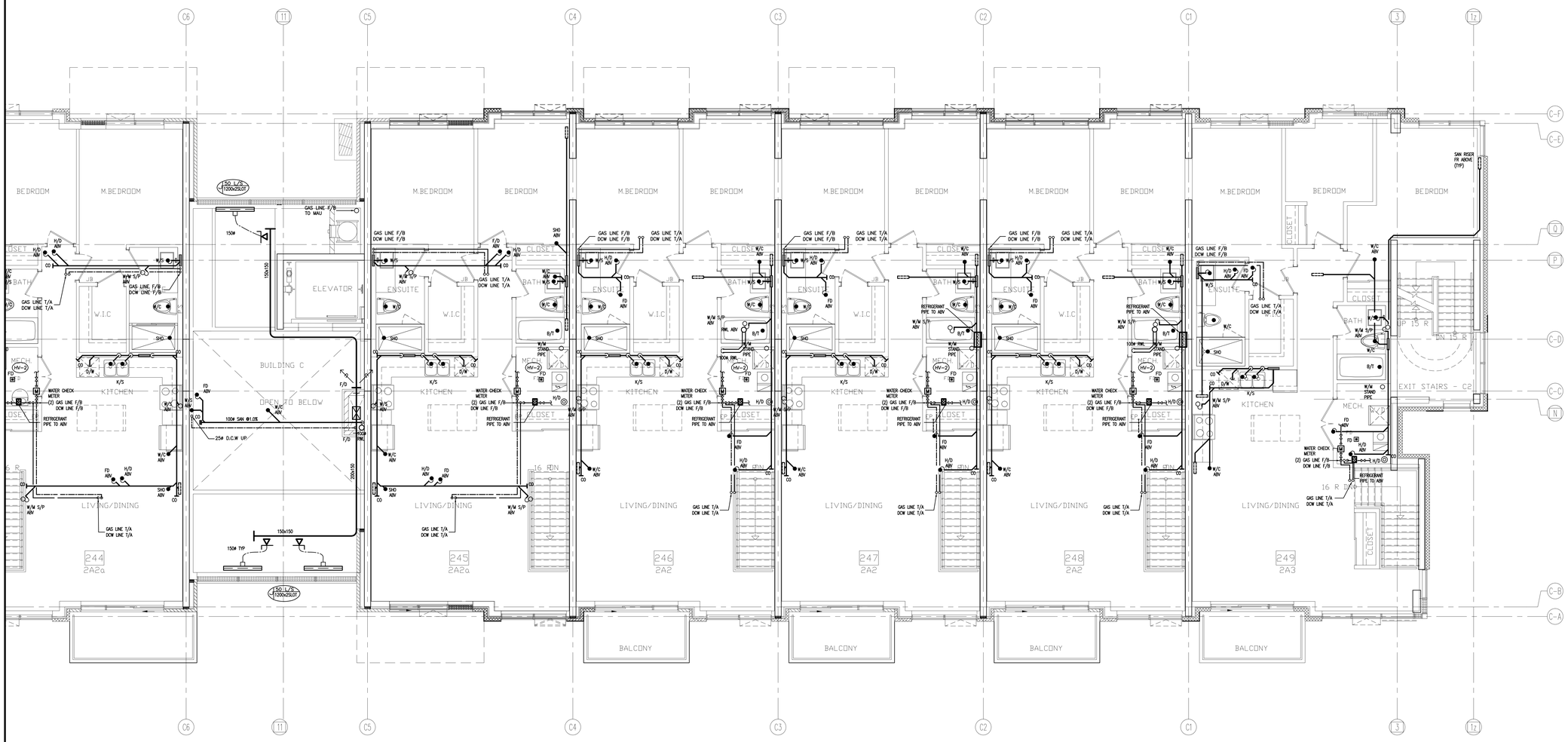
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TITLE
BLOCK 'C'
2ND FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-17
		OF -



NO.	BY	DESCRIPTION	DATE
07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
06	LB	ISSUED AS PER ADDENDUM M-06	MAR. 25, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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TITLE
BLOCK 'C'
2ND FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-18
		OF -



NO.	BY	DESCRIPTION	DATE
06	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
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03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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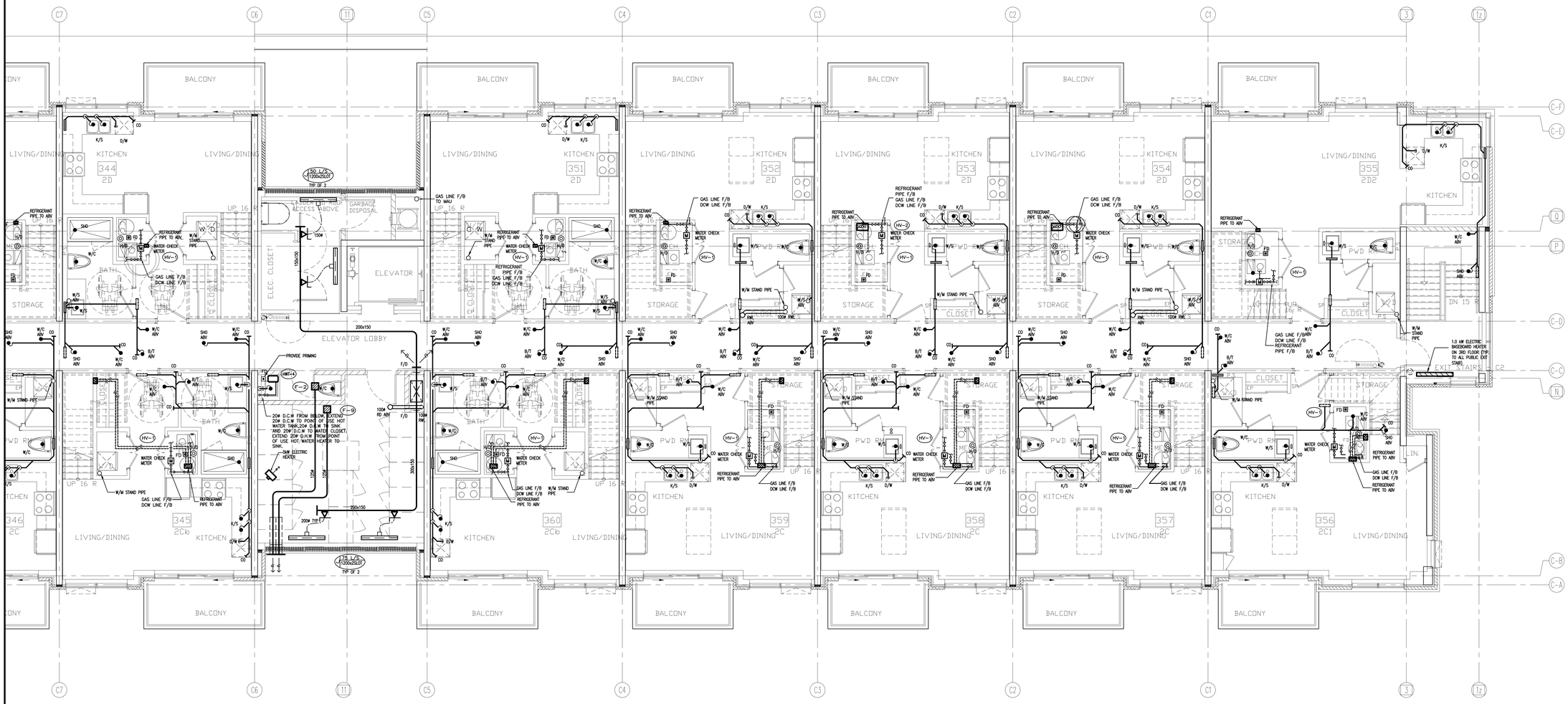
LICENCED PROFESSIONAL ENGINEER
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TITLE
BLOCK 'C'
3RD FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-19
		OF -



NO.	BY	DESCRIPTION	DATE
07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
06	LB	ISSUED AS PER ADDENDUM M-06	MAR. 25, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
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01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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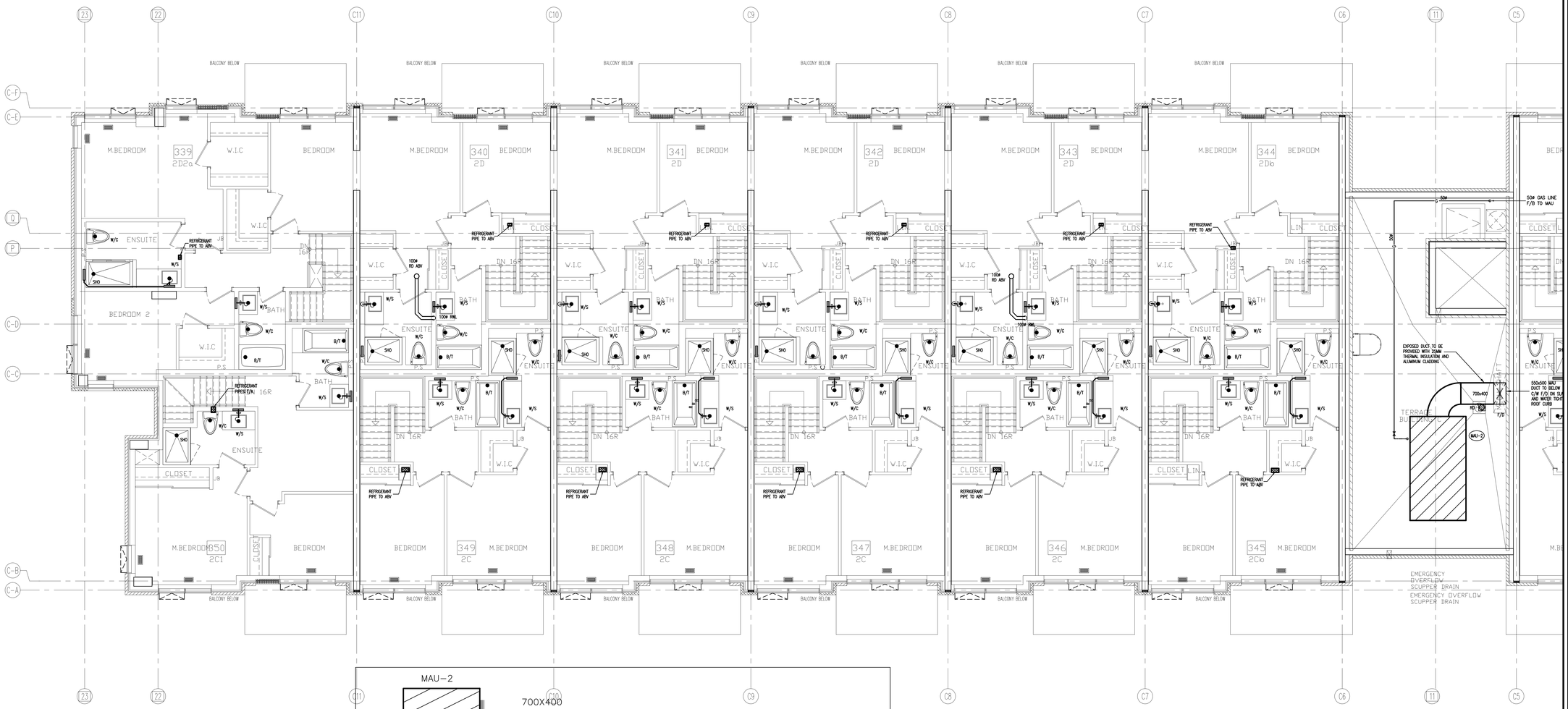
LICENCE PROFESSIONAL ENGINEER
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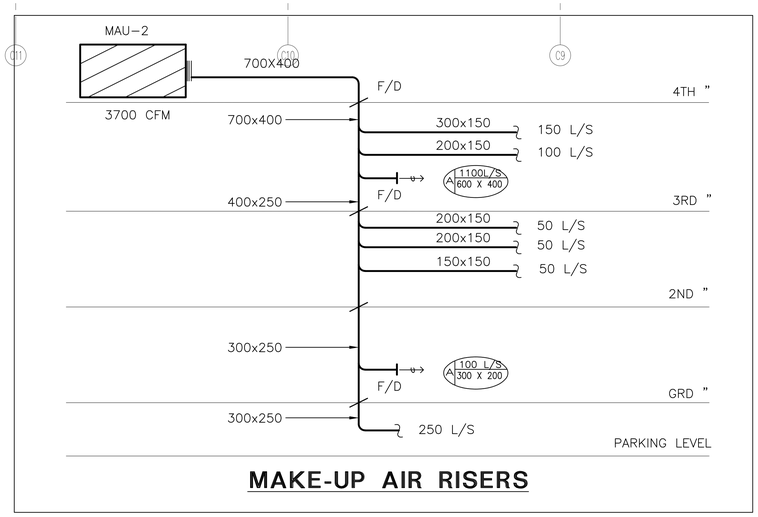
UNITED ENGINEERING INC.
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Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE
BLOCK 'C'
3RD FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-20
		OF -





MAKE-UP AIR RISERS

NO.	BY	DESCRIPTION	DATE
07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
06	LB	ISSUED AS PER ADDENDUM M-06	MAR. 25, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
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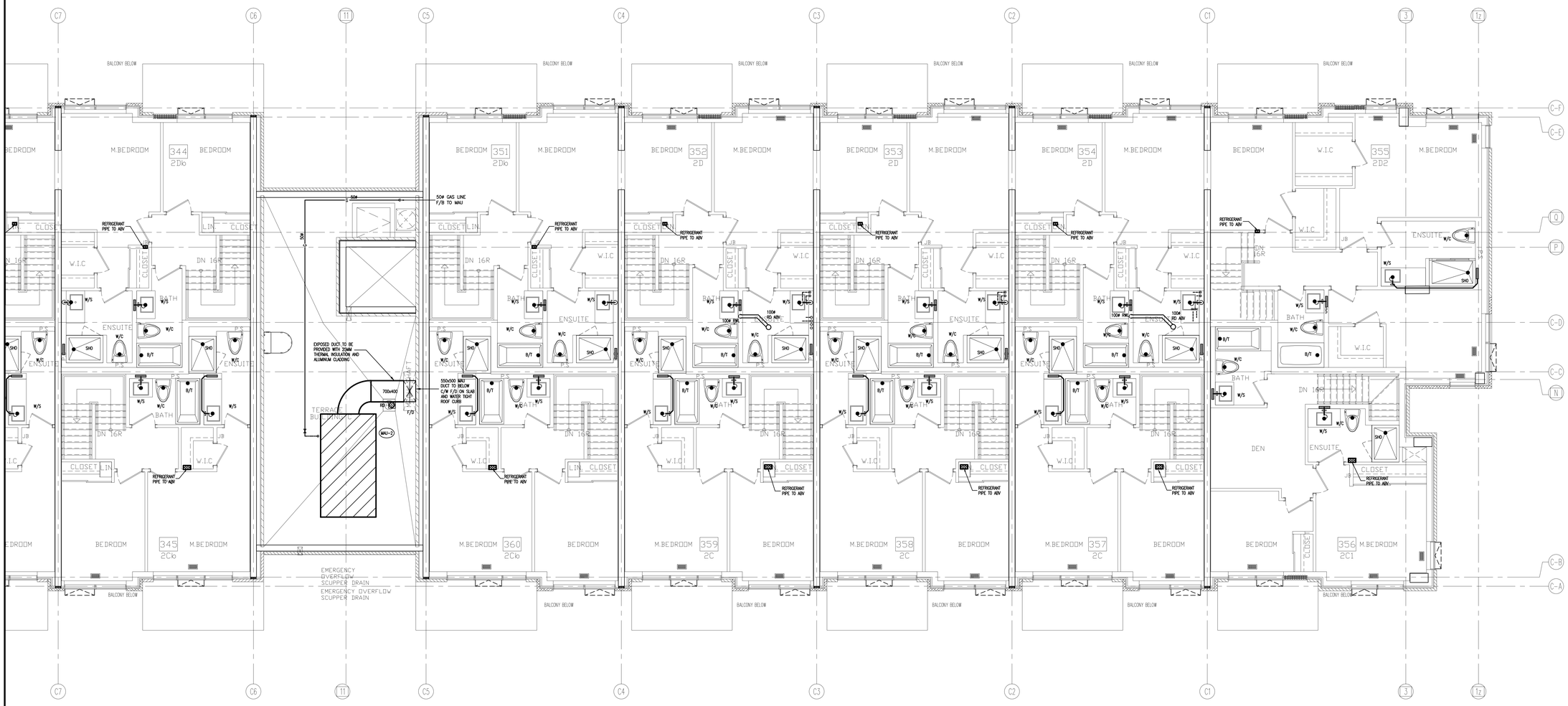
LICENCE PROFESSIONAL ENGINEER
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PROVINCE OF ONTARIO

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TITLE
BLOCK 'C'
4TH FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-21
		OF -



NO.	BY	DESCRIPTION	DATE
07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
06	LB	ISSUED AS PER ADDENDUM M-06	MAR. 25, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
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02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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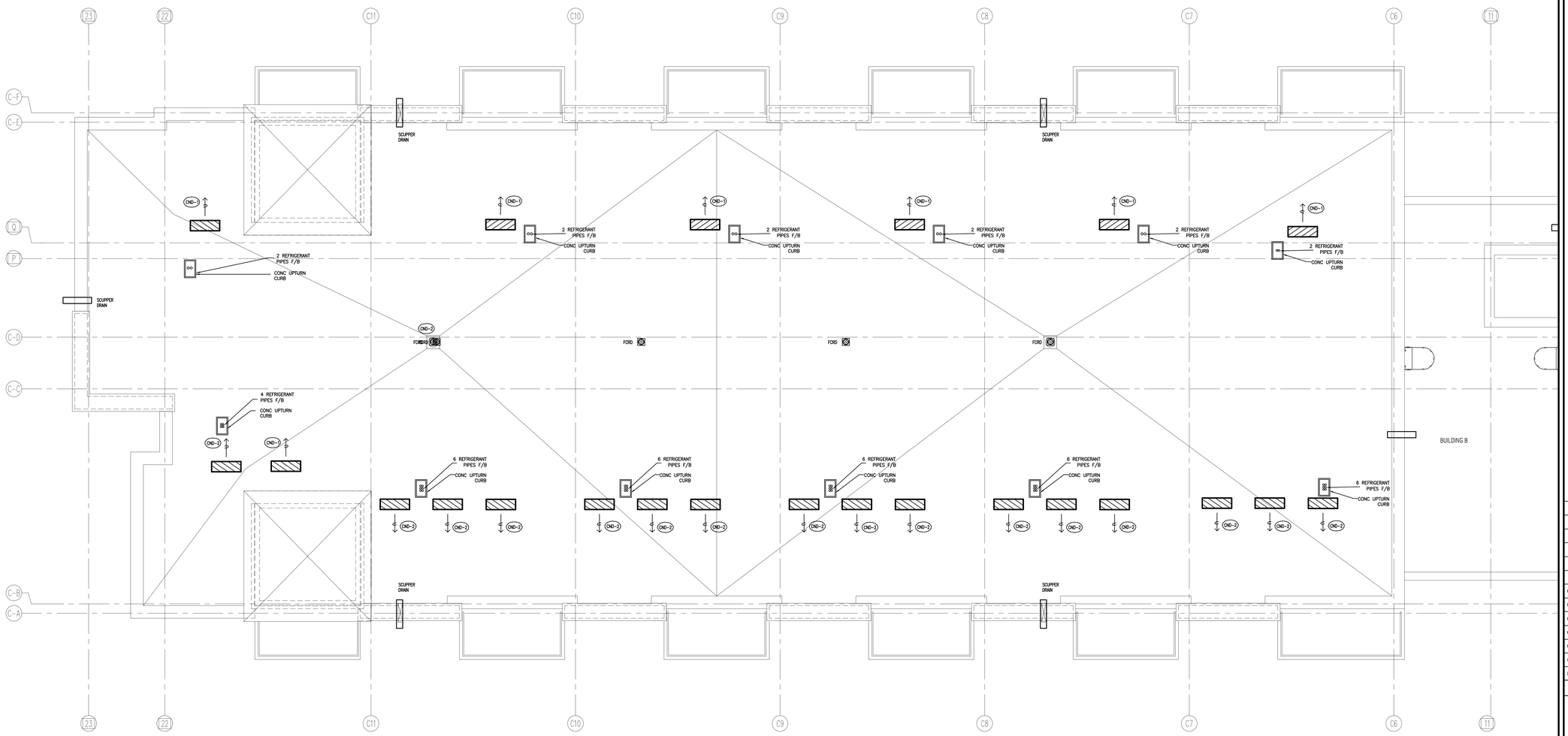
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TITLE
BLOCK 'C'
3RD FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-22
		OF -



NO.	BY	DESCRIPTION	DATE
06	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
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01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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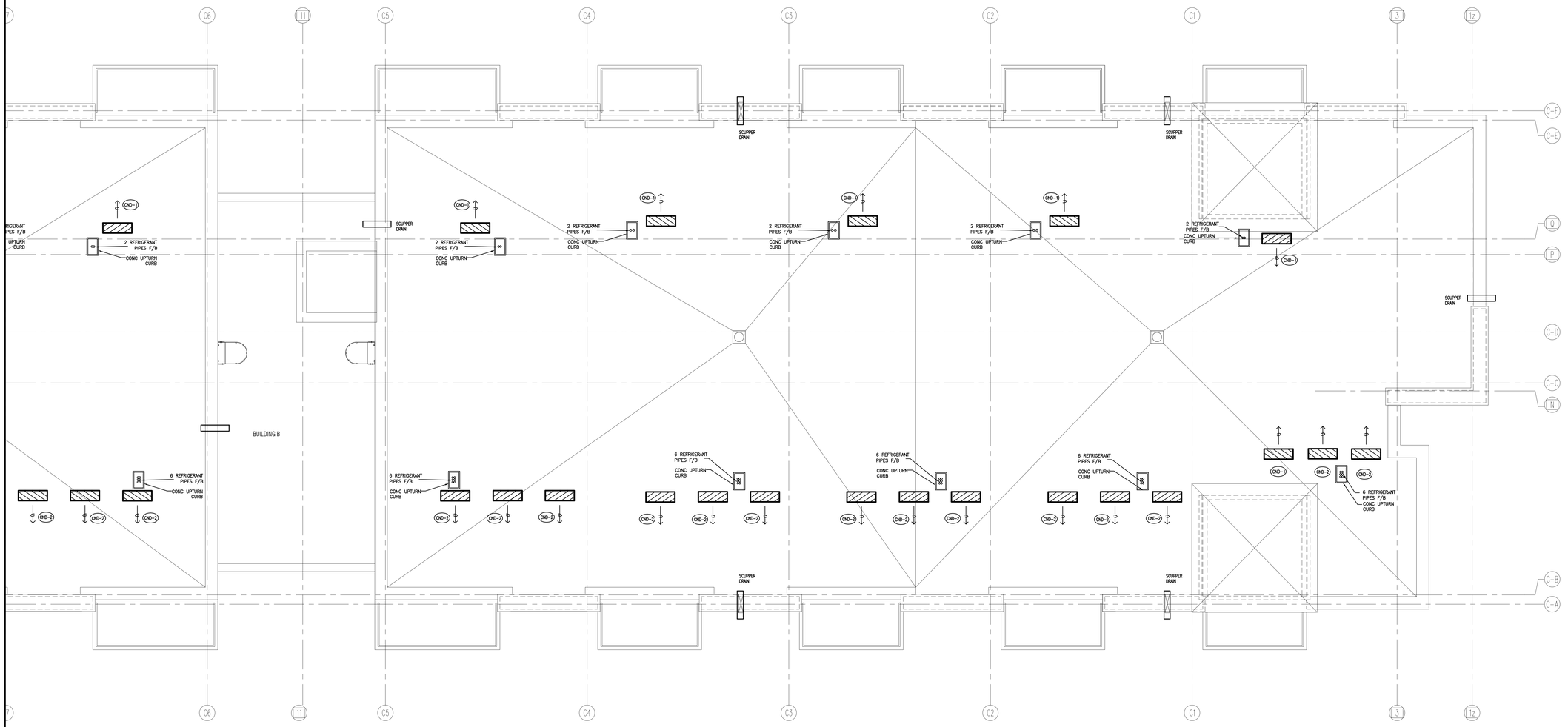
TITLE
BLOCK 'C'
ROOF - PLUMBING/SANITARY

PROJECT

BRAMPTON STACKED FORESTSIDE ESTATES

ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-23
		OF -



06	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019
NO.	BY	DESCRIPTION	DATE

REVISIONS

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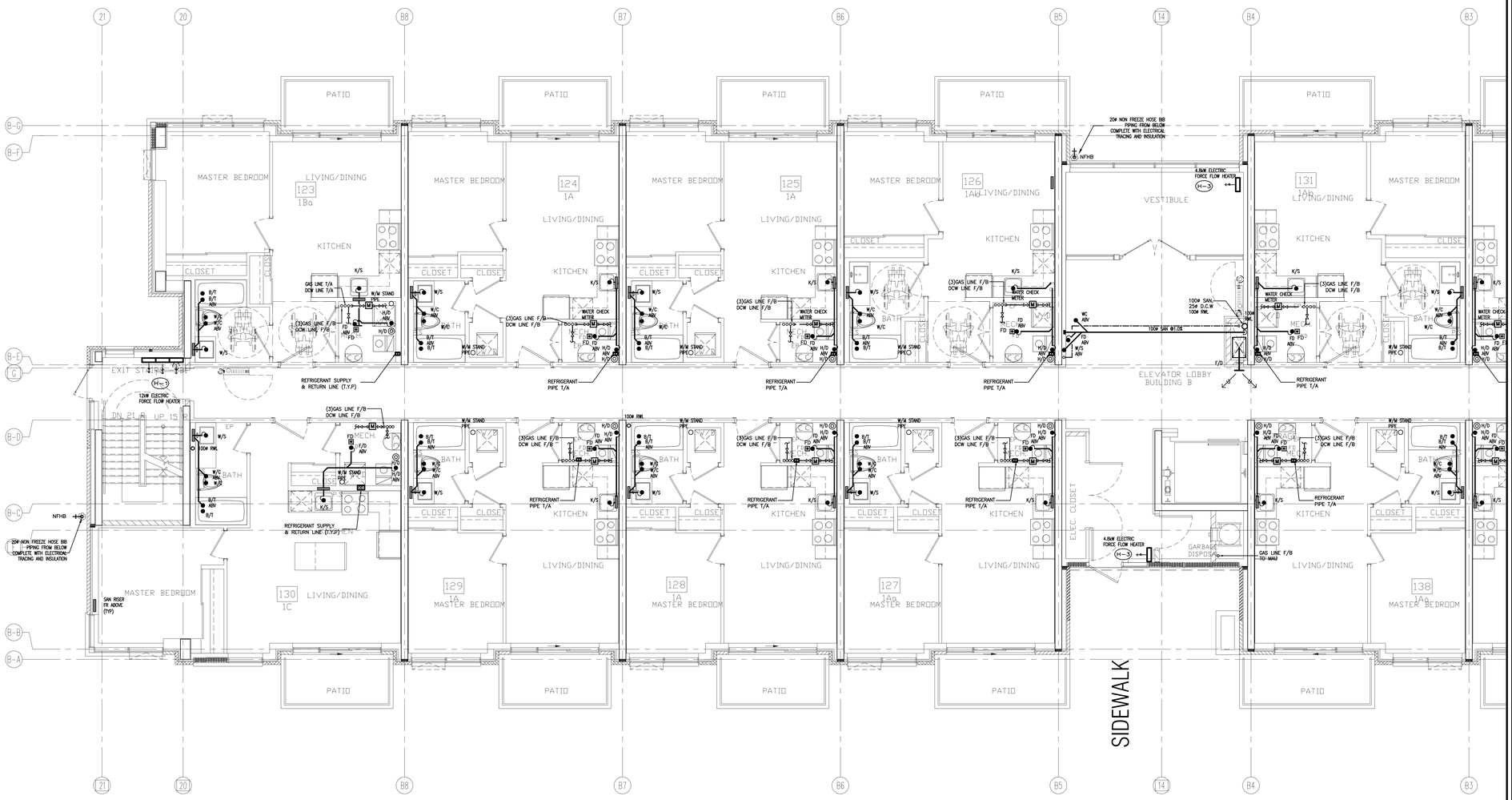
LICENCED PROFESSIONAL ENGINEER
Y. HOU
100117097
PROVINCE OF ONTARIO

UNITED ENGINEERING INC.
Mechanical Electrical Consulting Engineers
3645 Keele Street, Suite 105,
Toronto, Ontario, M3J 1M6
Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE
BLOCK 'C'
ROOF - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-24
		OF -



NO.	BY	DESCRIPTION	DATE
06	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

REVISIONS

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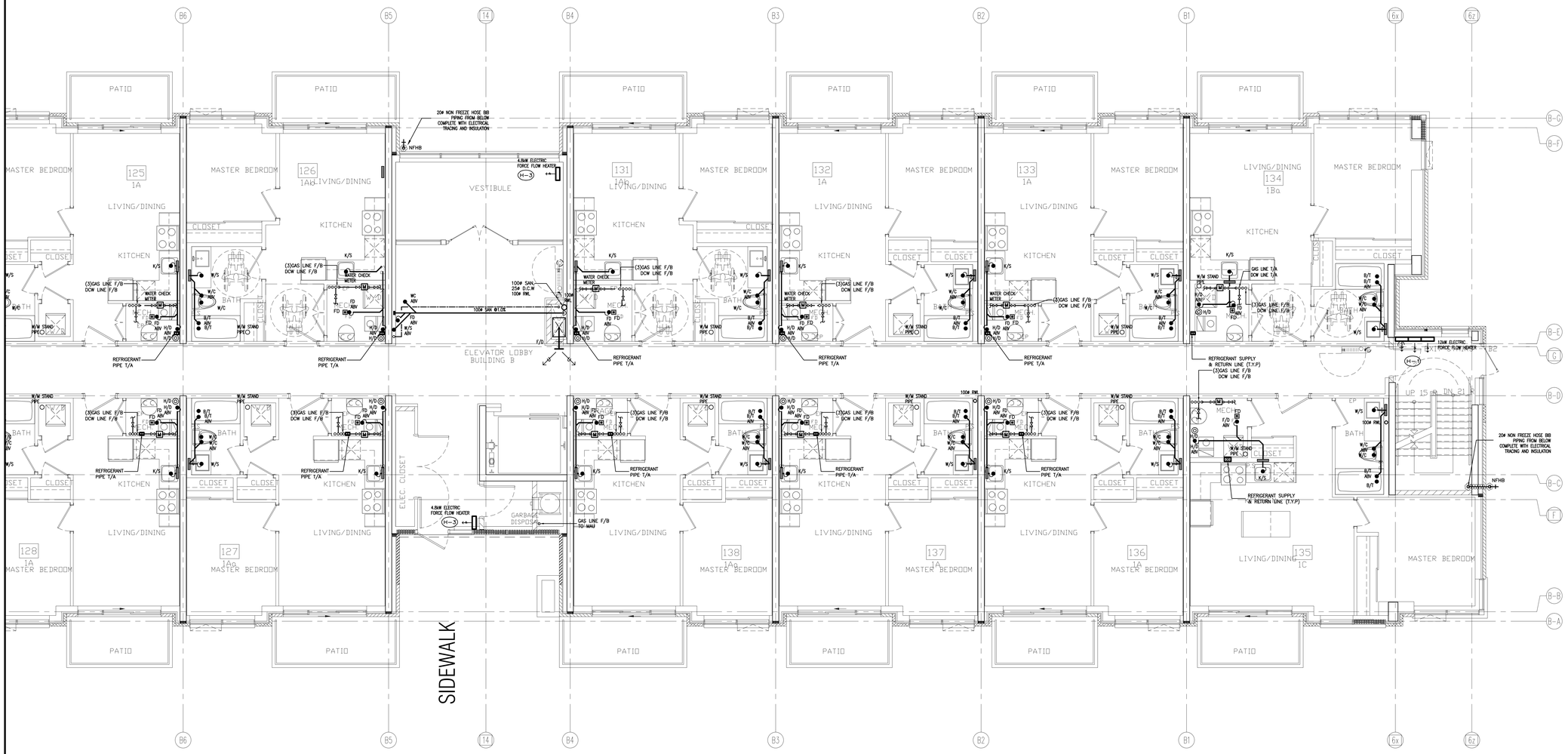
LICENCED PROFESSIONAL ENGINEER
Y. HOU
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UNITED ENGINEERING INC.
Mechanical Electrical Consulting Engineers
3645 Keele Street, Suite 105,
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TITLE
BLOCK 'B'
GROUND FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-25
		OF -



NO.	BY	DESCRIPTION	DATE
07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
06	LB	ISSUED AS PER ADDENDUM M-06	MAR. 25, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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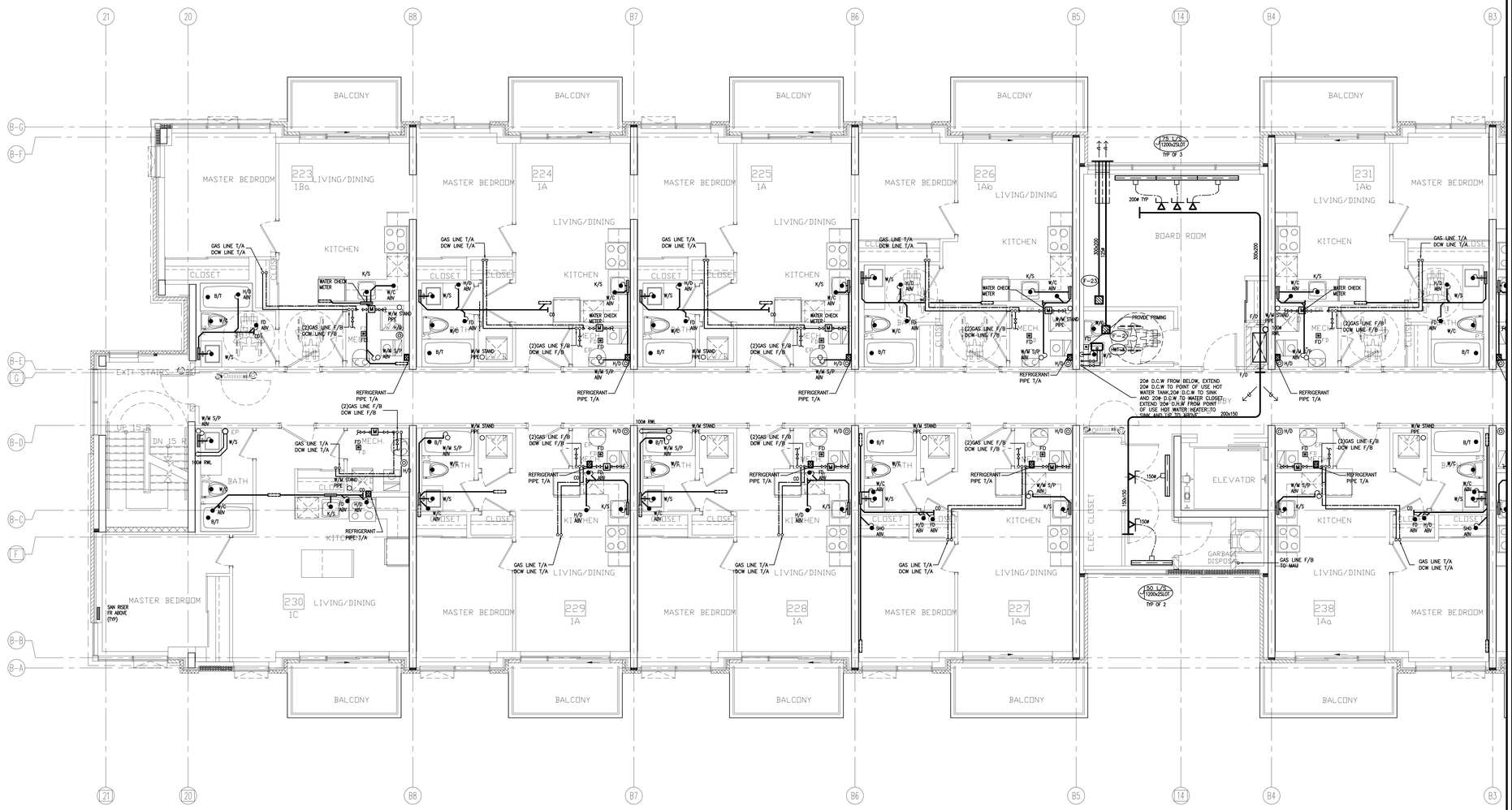
LICENCED PROFESSIONAL ENGINEER
Y. HOU
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UNITED ENGINEERING INC.
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3645 Keele Street, Suite 105,
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Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE
BLOCK 'B'
GROUND FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-26
		OF -



NO.	BY	DESCRIPTION	DATE
06	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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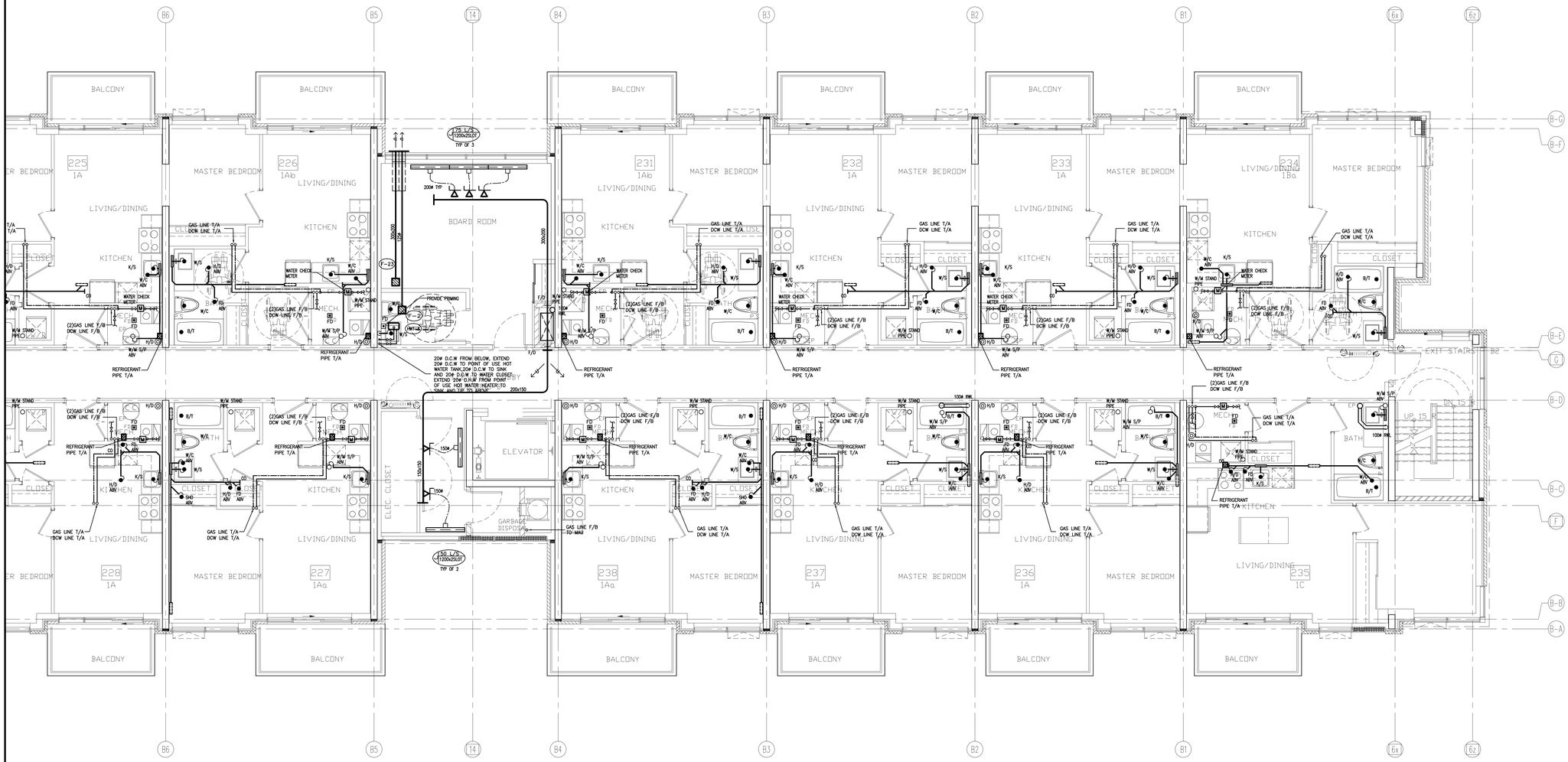
LICENCE PROFESSIONAL ENGINEER
Y. HOU
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PROVINCE OF ONTARIO

UNITED ENGINEERING INC.
Mechanical Electrical Consulting Engineers
3645 Keele Street, Suite 105,
Toronto, Ontario, M3J 1M6
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TITLE
BLOCK 'B'
2ND FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-27
		OF -



NO.	BY	DESCRIPTION	DATE
07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
06	LB	ISSUED AS PER ADDENDUM M-06	MAR. 25, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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Y. HOU
100117087
PROVINCE OF ONTARIO

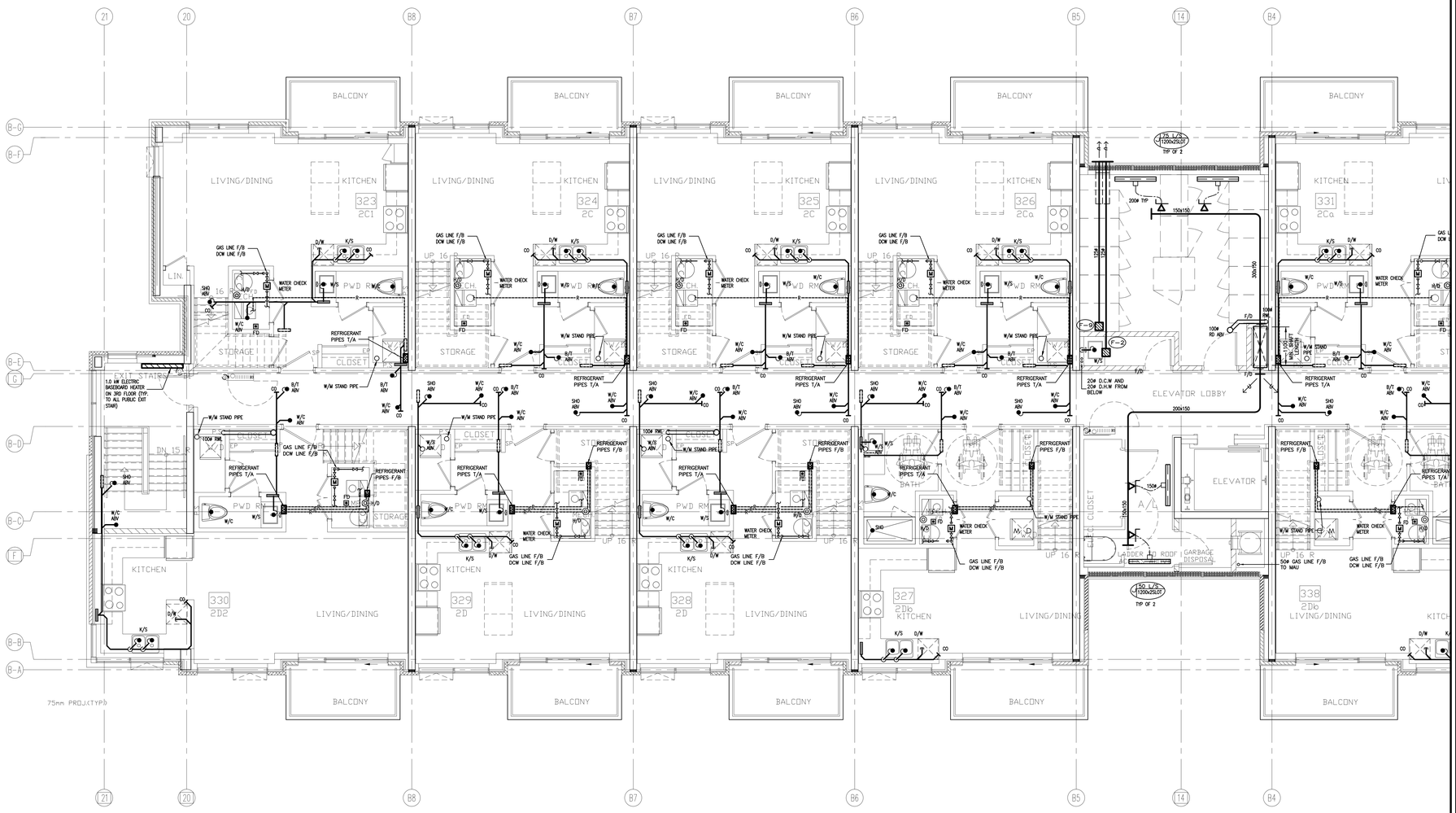
UNITED ENGINEERING INC.
Mechanical Electrical Consulting Engineers
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Toronto, Ontario, M3J 1M6
Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE
BLOCK 'B'
2ND FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-28
		OF -

MAKE-UP AIR RISERS



NO.	BY	DESCRIPTION	DATE
06	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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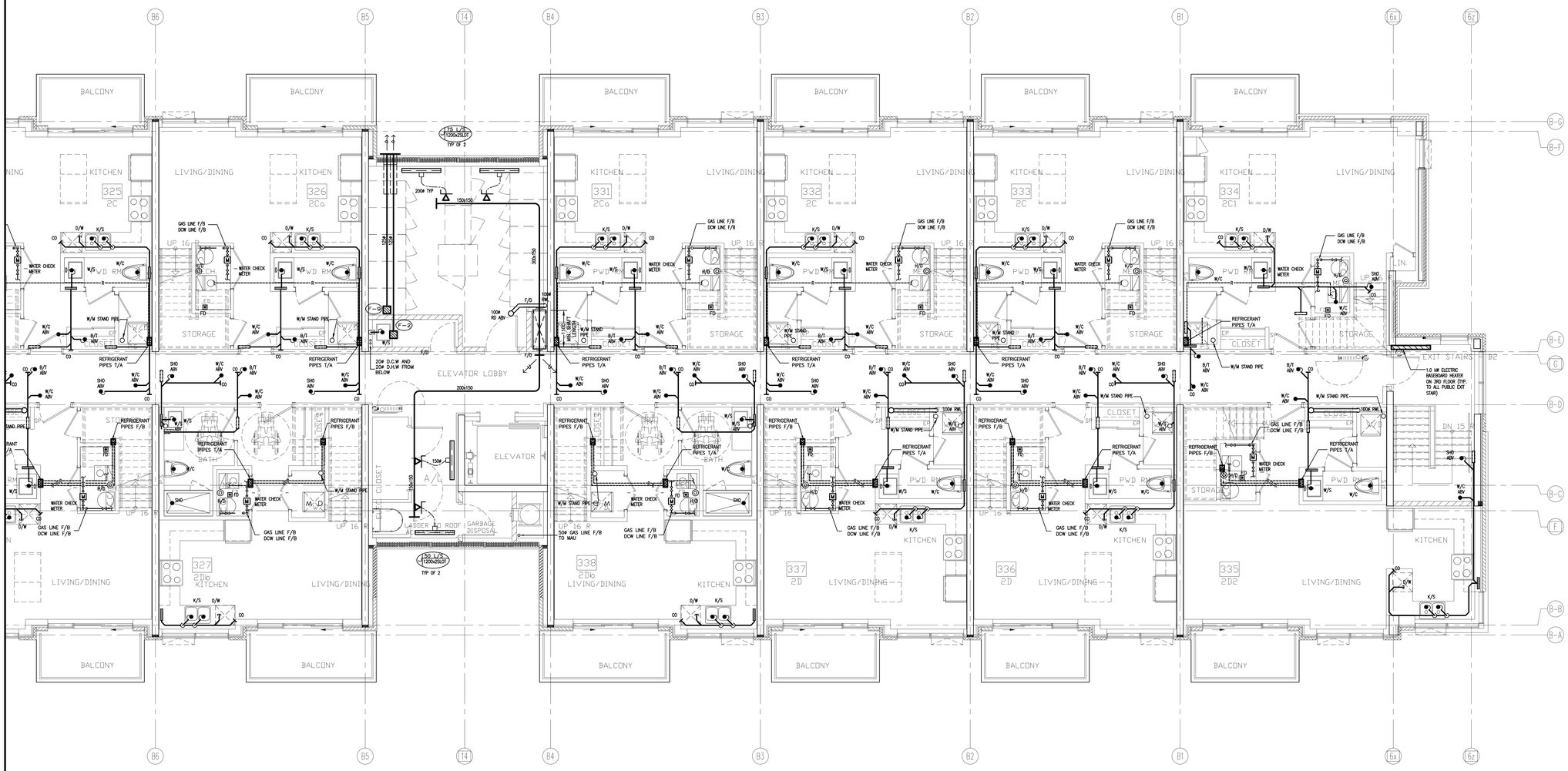
LICENCE PROFESSIONAL ENGINEER
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Mechanical Electrical Consulting Engineers
3645 Keele Street, Suite 105,
Toronto, Ontario, M3J 1M6
Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE
BLOCK 'B'
3RD FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-29
		OF -



NO.	BY	DESCRIPTION	DATE
07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
06	LB	ISSUED AS PER ADDENDUM M-06	MAR. 25, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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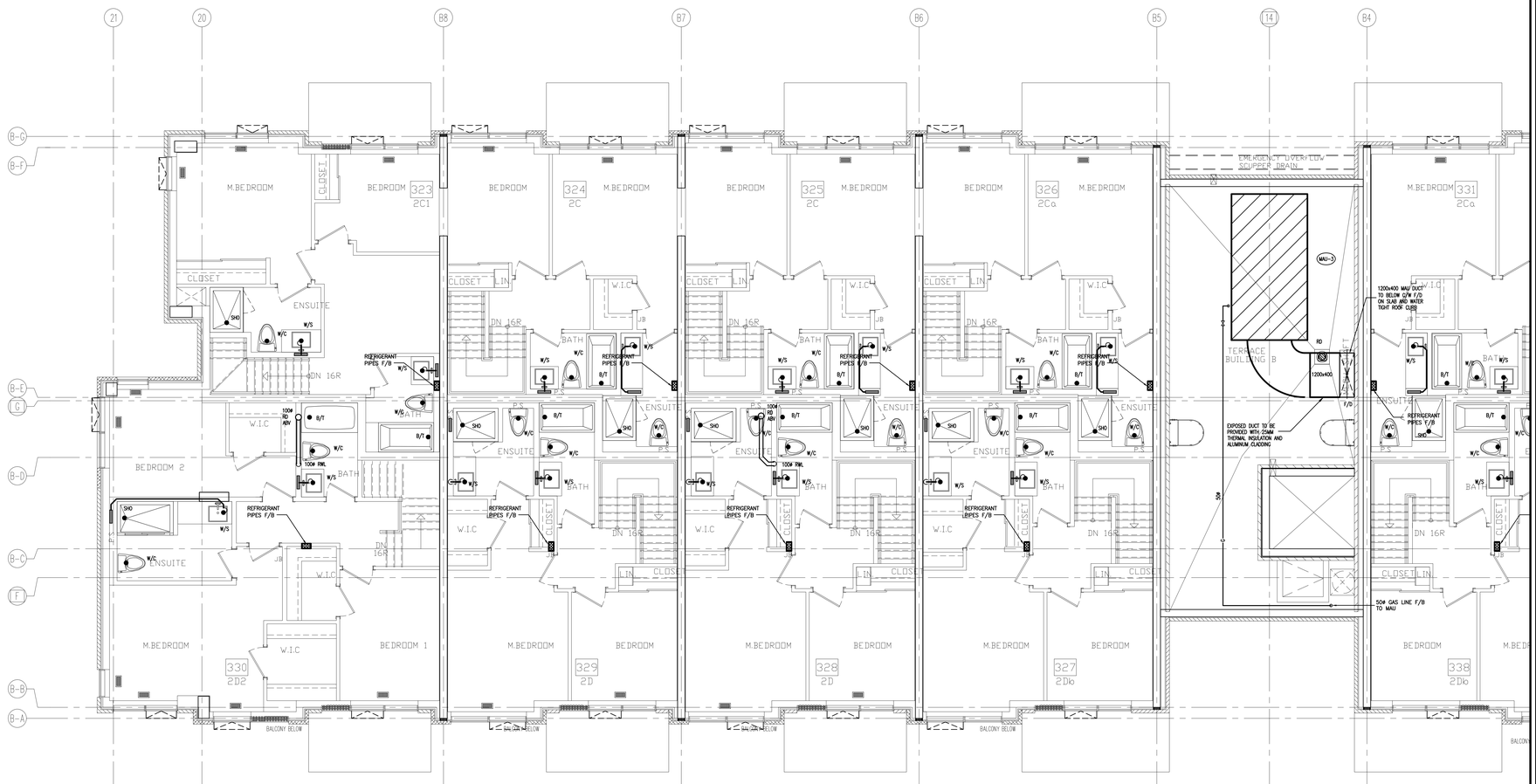
LICENCED PROFESSIONAL ENGINEER
Y. HOU
100117087
PROVINCE OF ONTARIO

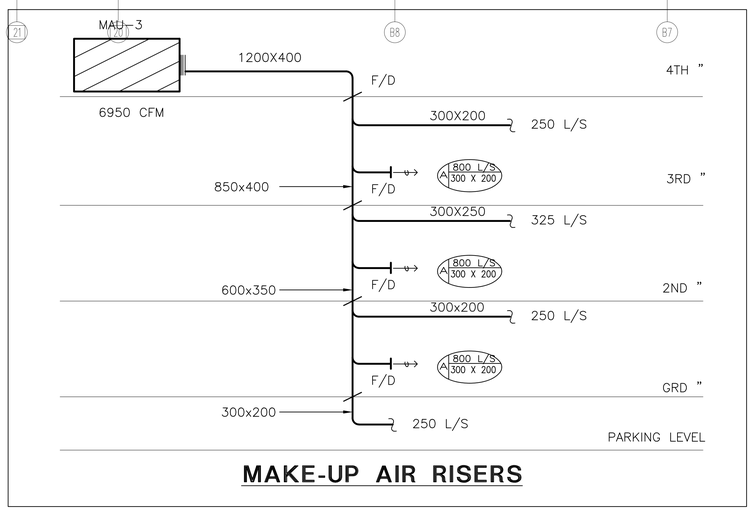
UNITED ENGINEERING INC.
Mechanical Electrical Consulting Engineers
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Toronto, Ontario, M3J 1M6
Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE
BLOCK 'B'
3RD FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-30
		OF -





MAKE-UP AIR RISERS

NO.	BY	DESCRIPTION	DATE
07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
06	LB	ISSUED AS PER ADDENDUM M-06	MAR. 25, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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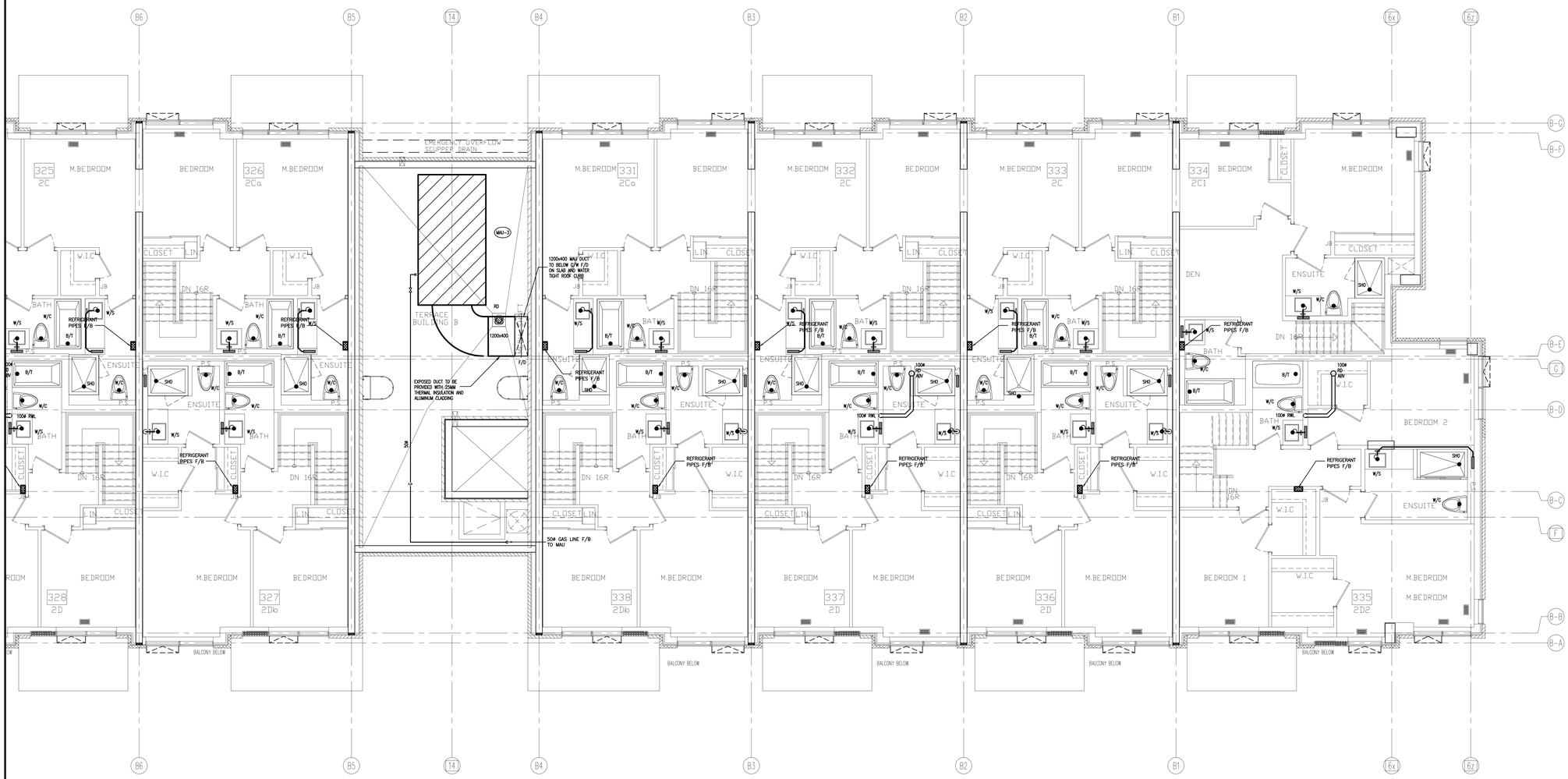
LICENCE PROFESSIONAL ENGINEER
Y. HOU
100117087
PROVINCE OF ONTARIO

UNITED ENGINEERING INC.
Mechanical Electrical Consulting Engineers
3645 Keele Street, Suite 105,
Toronto, Ontario, M3J 1M6
Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE
BLOCK 'B'
4TH FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-31
		OF -



07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
06	LB	ISSUED AS PER ADDENDUM M-06	MAR. 25, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019
NO.	BY	DESCRIPTION	DATE

REVISIONS

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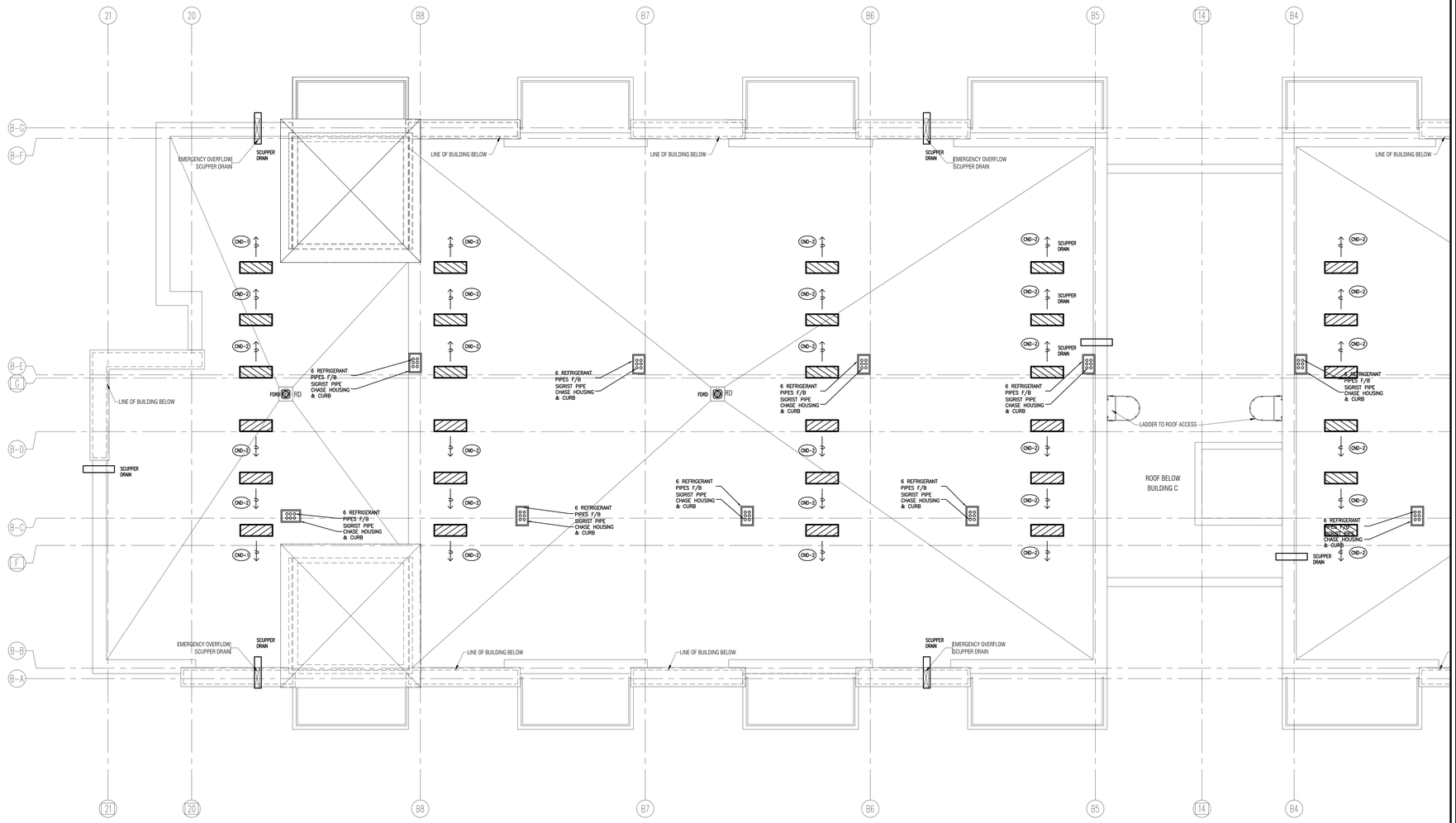
TITLE
BLOCK 'B'
3RD FLOOR - PLUMBING/SANITARY

PROJECT

BRAMPTON STACKED FORESTSIDE ESTATES

ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-32
		OF -



06	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019
NO.	BY	DESCRIPTION	DATE

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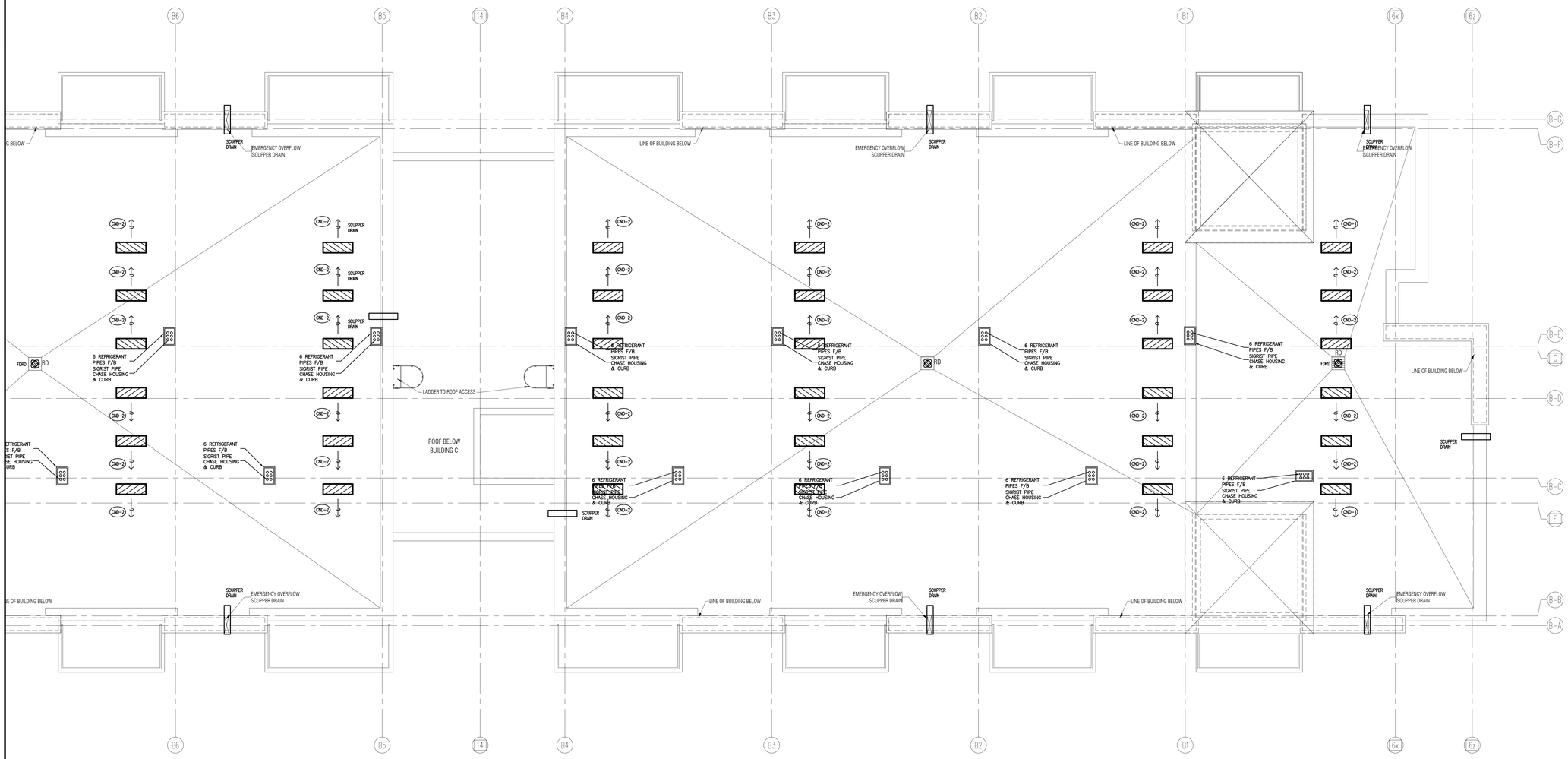
TITLE
BLOCK 'B'
ROOF - PLUMBING/SANITARY

PROJECT

BRAMPTON STACKED FORESTSIDE ESTATES

ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-33
		OF -



NO.	BY	DESCRIPTION	DATE
06	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
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02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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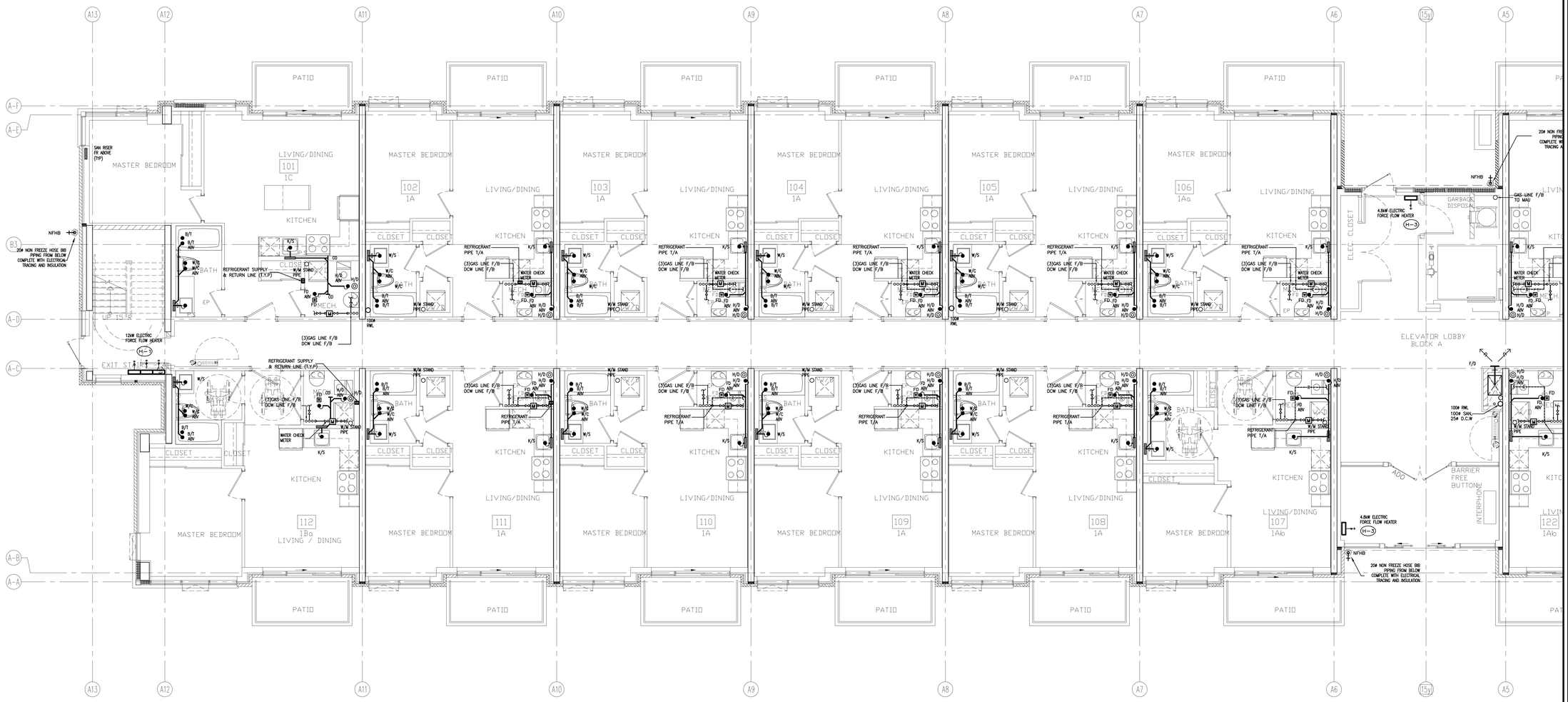
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TITLE
BLOCK 'B'
ROOF - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-34
		OF -



NO.	BY	DESCRIPTION	DATE
06	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE
BLOCK 'A'
GROUND FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-35
		OF -



NO.	BY	DESCRIPTION	DATE
07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
06	LB	ISSUED AS PER ADDENDUM M-06	MAR. 25, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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TITLE
BLOCK 'A'
GROUND FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-36
		OF -



NO.	BY	DESCRIPTION	DATE
06	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

REVISIONS

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LICENCED PROFESSIONAL ENGINEER
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100117097
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TITLE
BLOCK 'A'
2ND FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-37
		OF -



NO.	BY	DESCRIPTION	DATE
07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
06	LB	ISSUED AS PER ADDENDUM M-06	MAR. 25, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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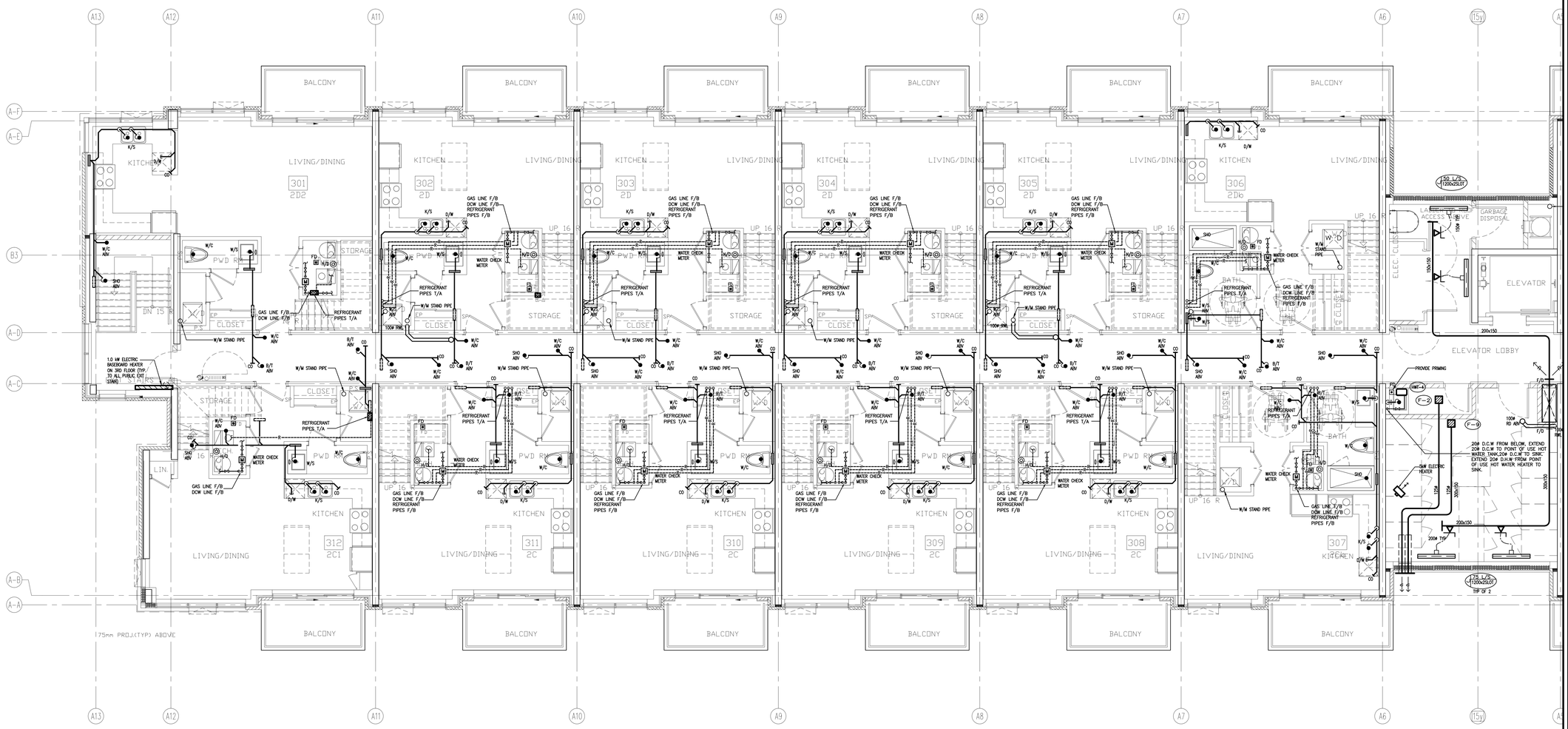
LICENCED PROFESSIONAL ENGINEER
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TITLE
BLOCK 'A'
2ND FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-38
		OF -



NO.	BY	DESCRIPTION	DATE
06	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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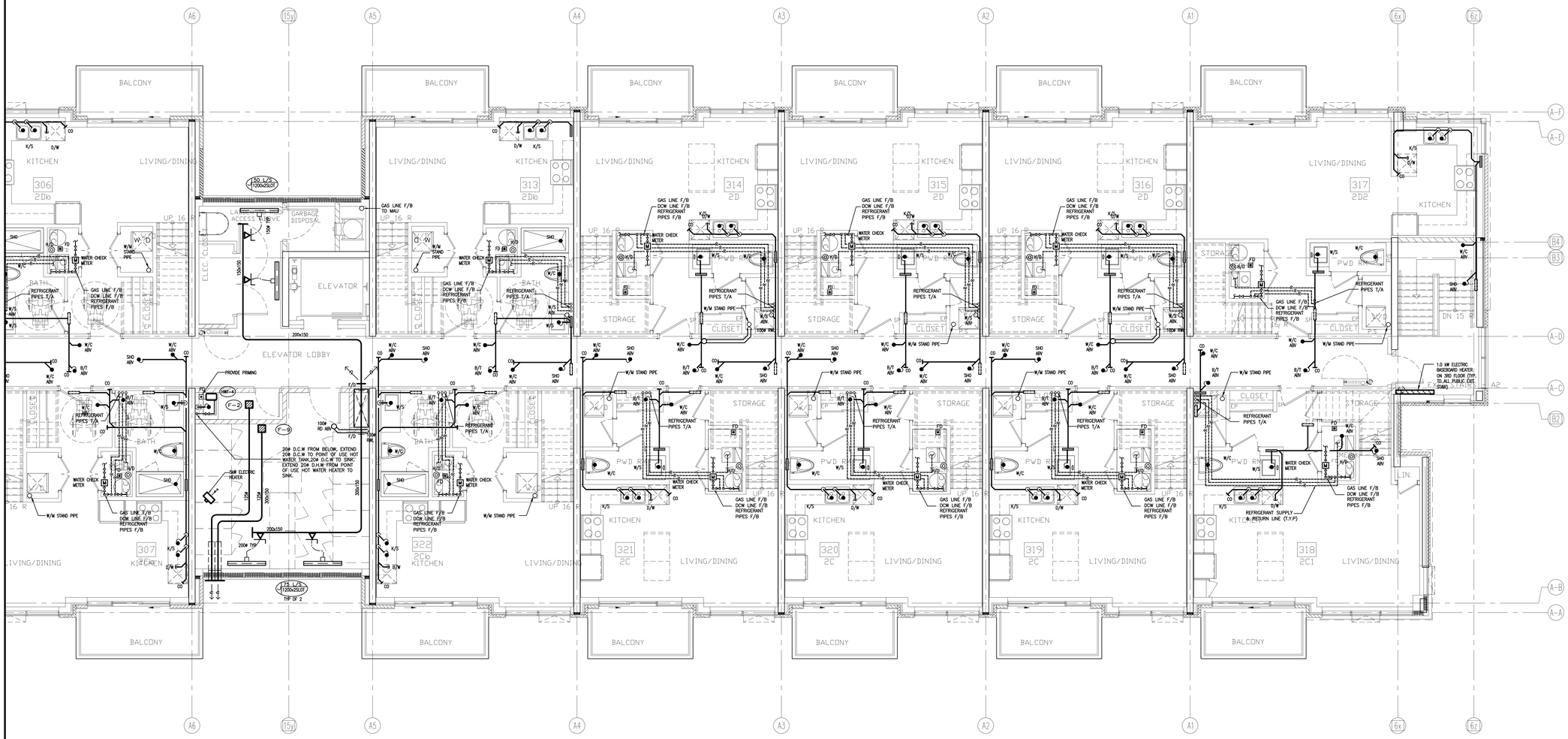
LICENCE PROFESSIONAL ENGINEER
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TITLE
BLOCK 'A'
3RD FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-39
		OF -



NO.	BY	DESCRIPTION	DATE
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06	LB	ISSUED AS PER ADDENDUM M-06	MAR. 25, 2021
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02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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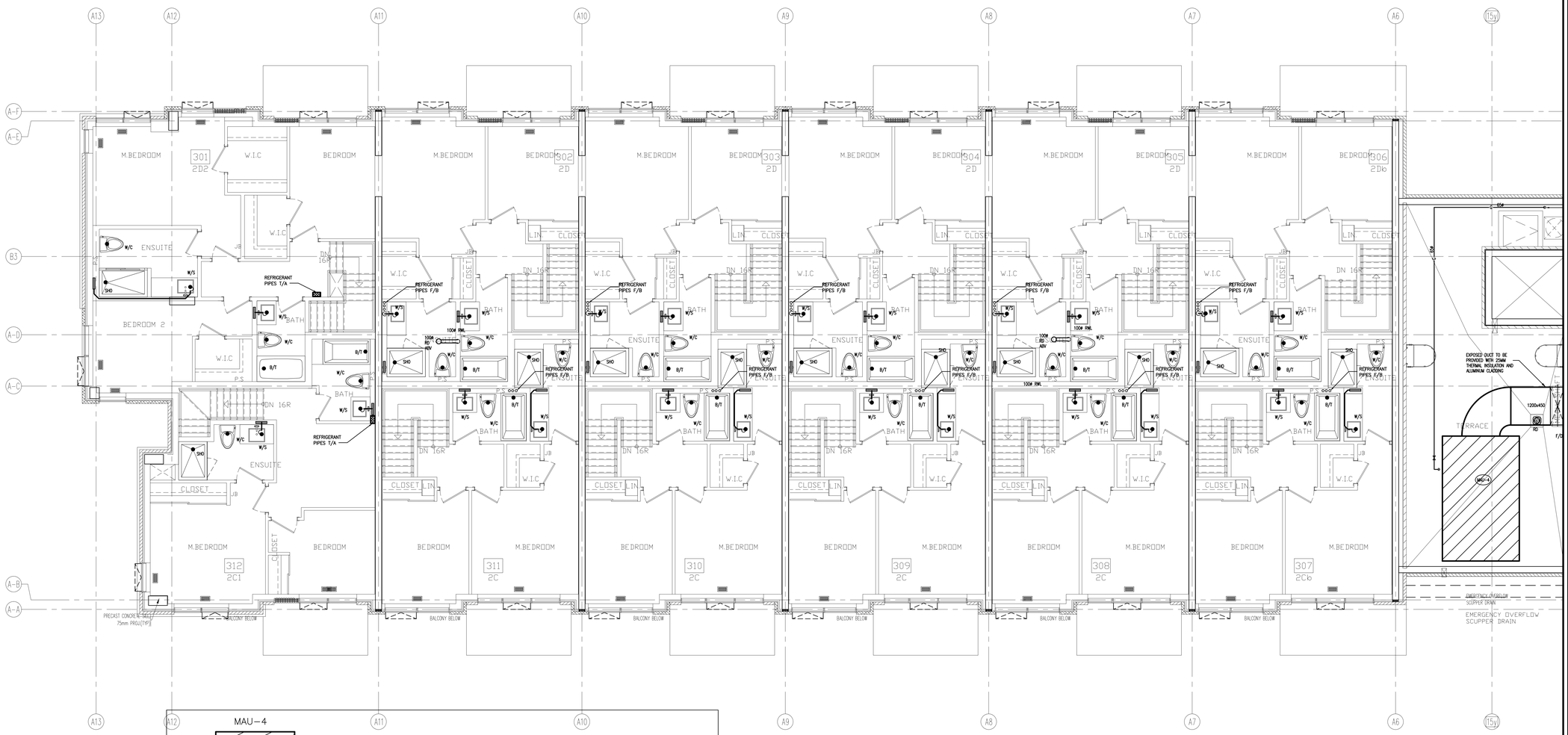
LICENCE PROFESSIONAL ENGINEER Y. HOU 100117097 PROVINCE OF ONTARIO

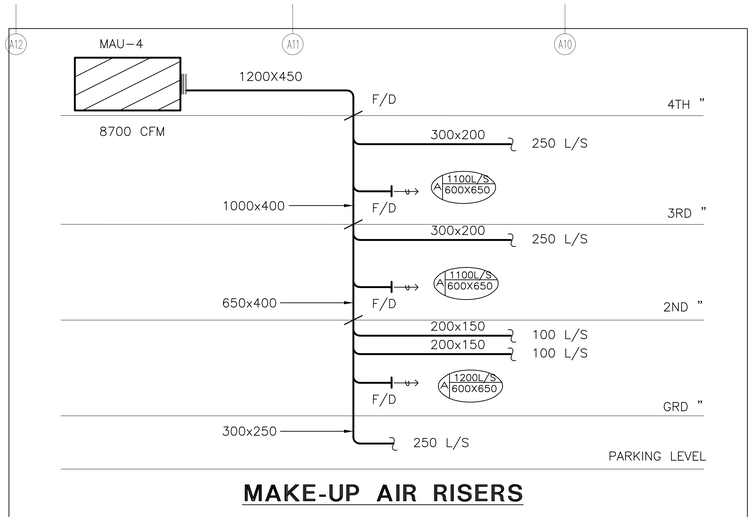
UNITED ENGINEERING INC.
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TITLE
BLOCK 'A'
3RD FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-40
		OF -





MAKE-UP AIR RISERS

NO.	BY	DESCRIPTION	DATE
07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
06	LB	ISSUED AS PER ADDENDUM M-06	MAR. 25, 2021
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02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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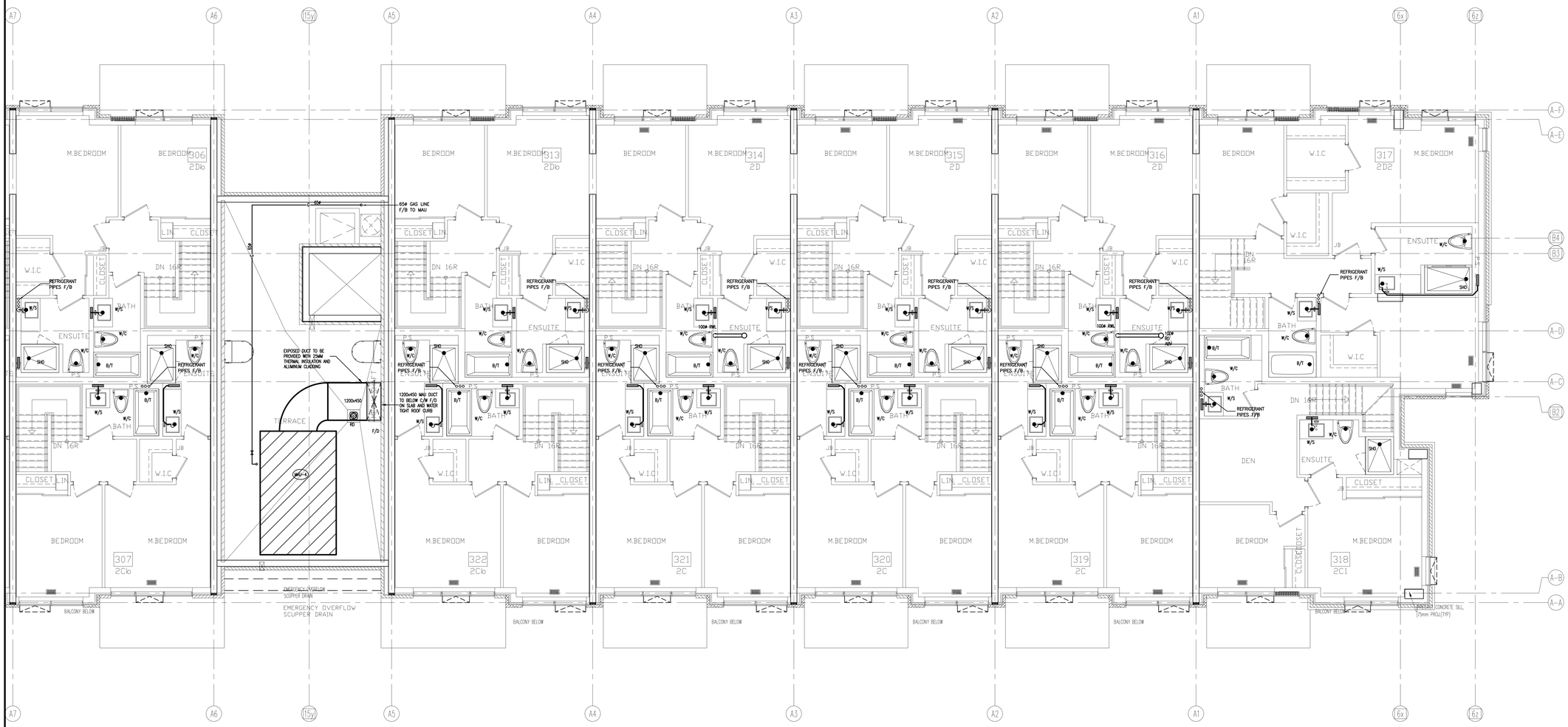
TITLE
BLOCK 'A'
4TH FLOOR - PLUMBING/SANITARY

PROJECT

BRAMPTON STACKED FORESTSIDE ESTATES

ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-41
		OF -



NO.	BY	DESCRIPTION	DATE
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06	LB	ISSUED AS PER ADDENDUM M-06	MAR. 25, 2021
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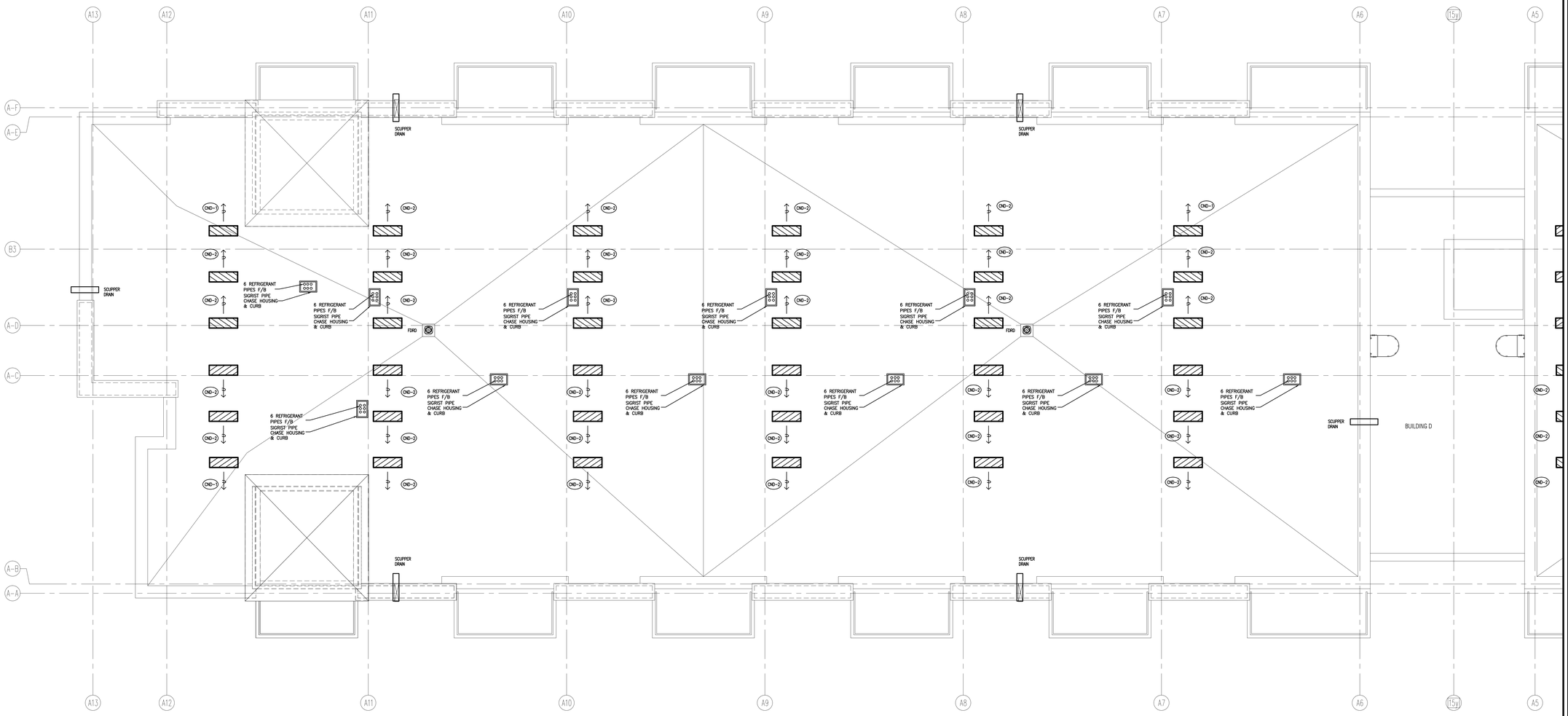
LICENCE PROFESSIONAL ENGINEER Y. HOU 100117097 PROVINCE OF ONTARIO

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TITLE
BLOCK 'A'
3RD FLOOR - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR ÷ PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-42
		OF -



06	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
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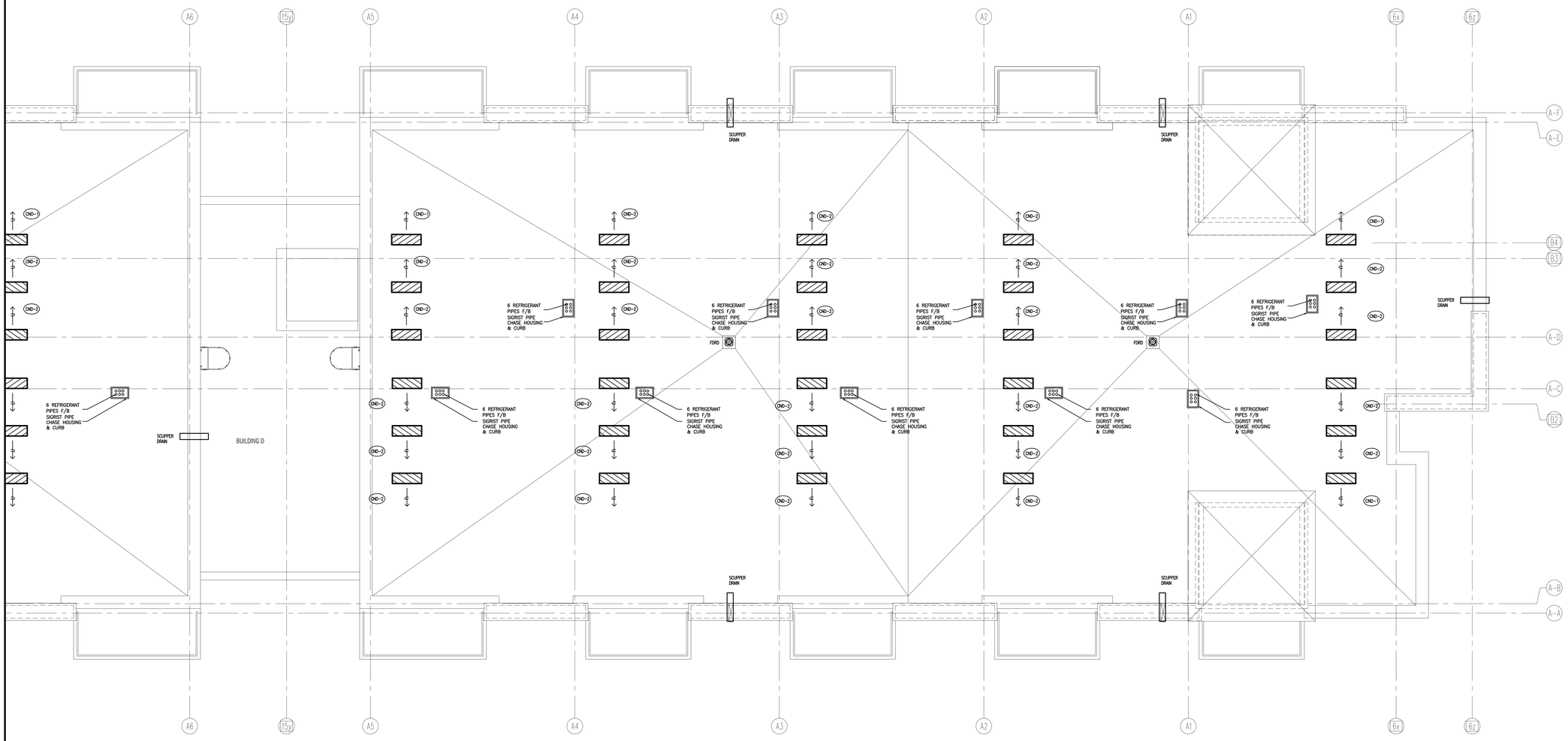
TITLE
BLOCK 'A'
ROOF - PLUMBING/SANITARY

PROJECT

BRAMPTON STACKED FORESTSIDE ESTATES

ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-43
		OF -



NO.	BY	DESCRIPTION	DATE
06	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
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01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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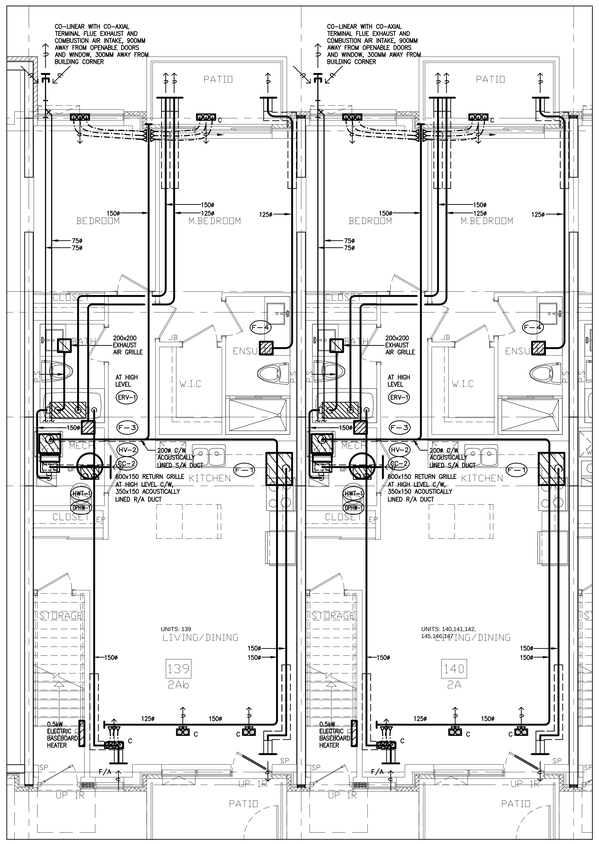
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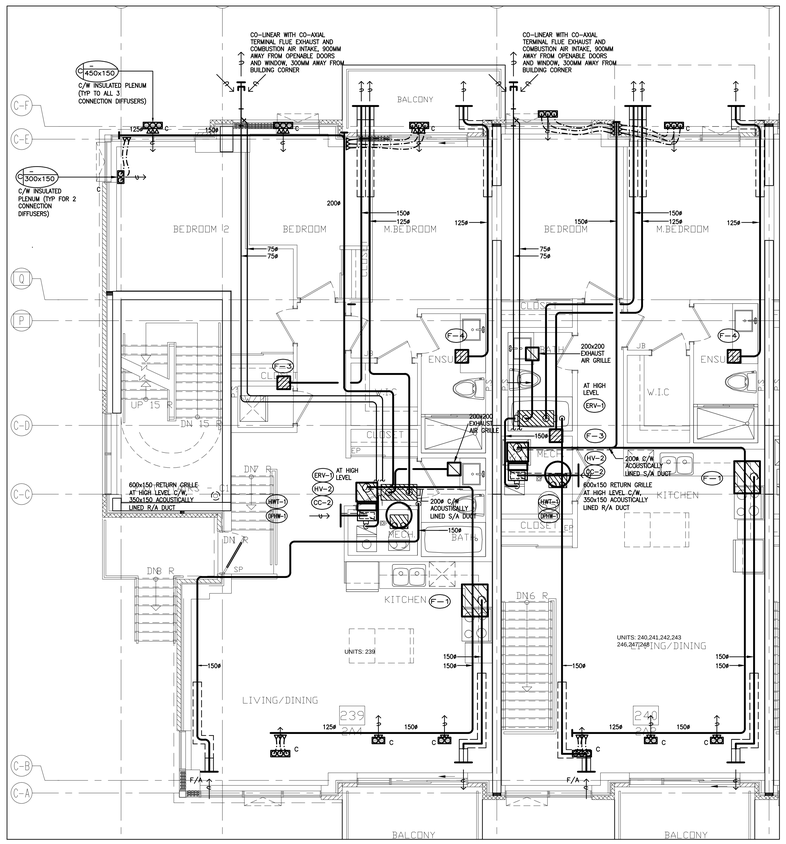
TITLE
BLOCK 'A'
ROOF - PLUMBING/SANITARY

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

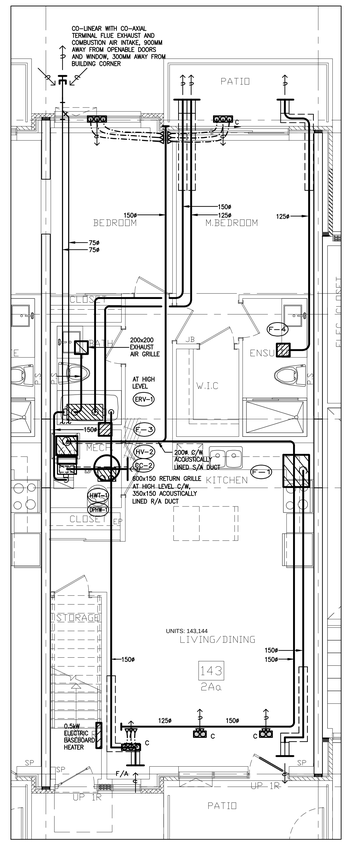
DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-44
		OF -



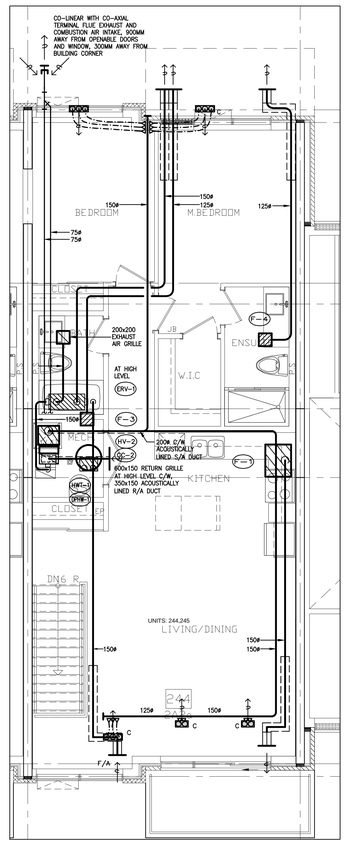
GROUND FLOOR TYPICAL SUITE LAYOUT TYPE 2Ab & 2A



GROUND FLOOR TYPICAL SUITE LAYOUT TYPE 2A4 & 2A2



GROUND FLOOR TYPICAL SUITE LAYOUT TYPE 2Aa



GROUND FLOOR TYPICAL SUITE LAYOUT TYPE 2A2a

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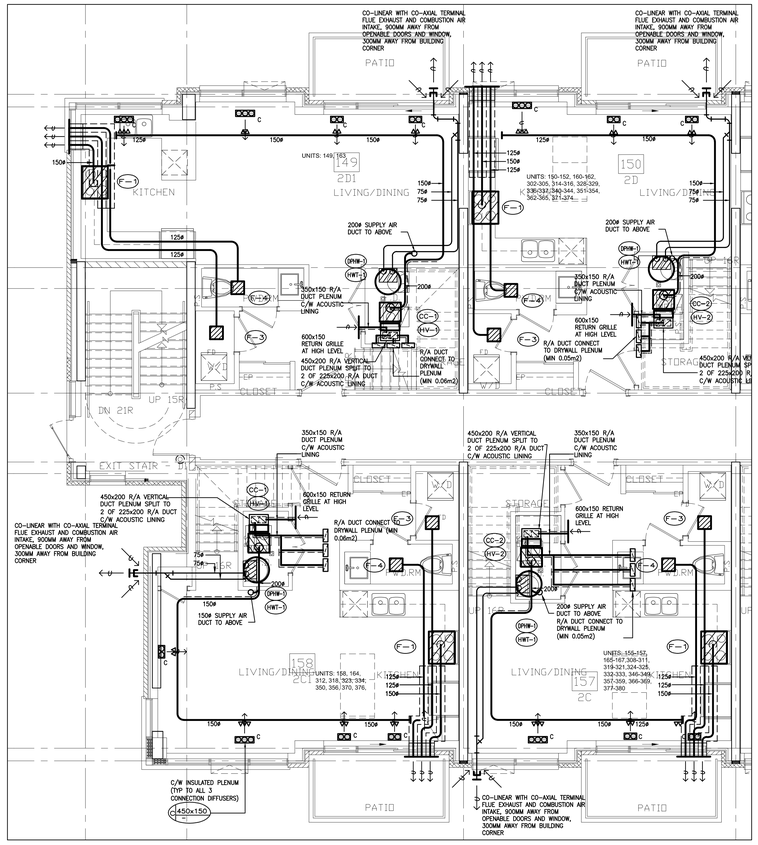
TITLE
TYPICAL SUITES LAYOUT MECHANICAL

PROJECT

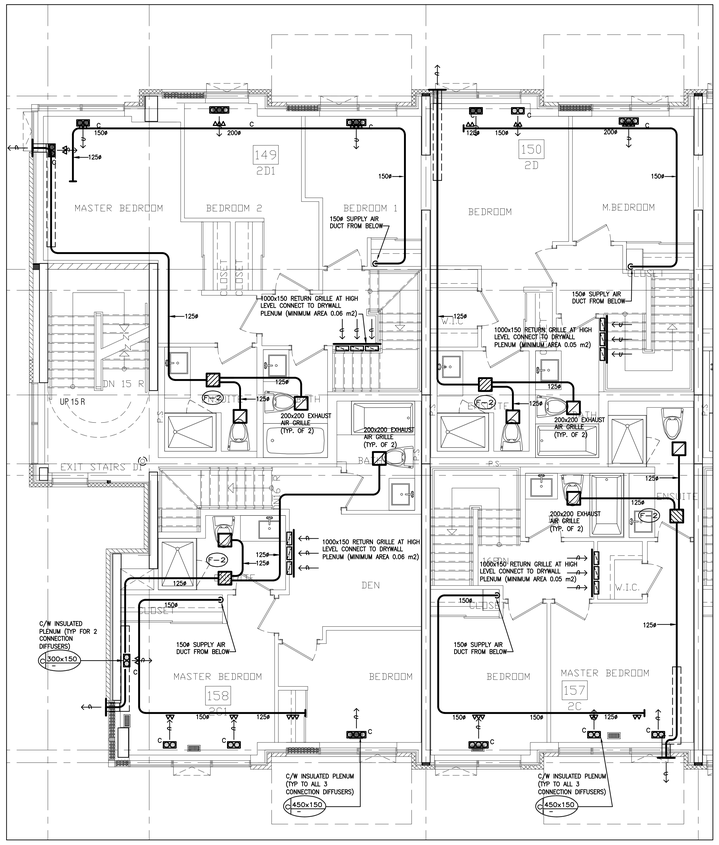
BRAMPTON STACKED FORESTSIDE ESTATES

ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

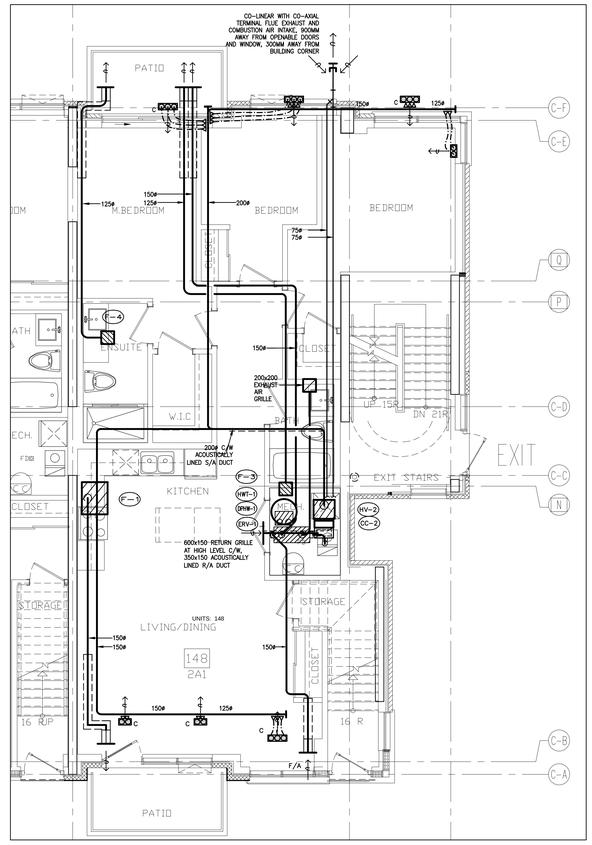
DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-45
		OF -



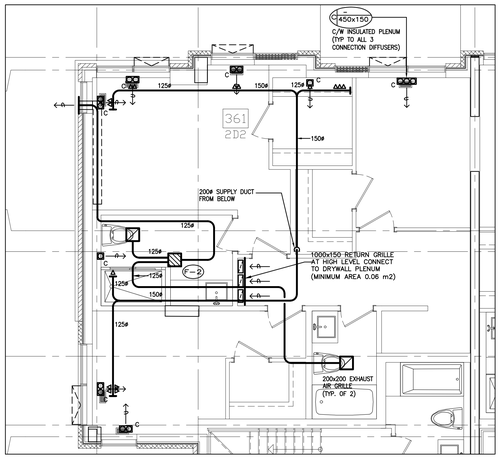
GROUND FLOOR, 3RD FLOOR TYPICAL
SUITE LAYOUT TYPE 2C1, 2C, 2D1 & 2D



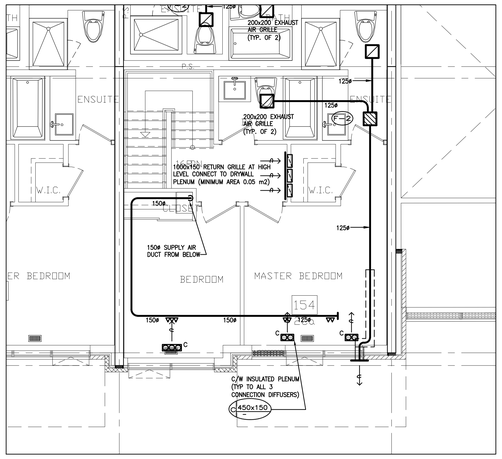
2ND FLOOR, 4TH FLOOR TYPICAL SUITE
LAYOUT TYPE 2C1, 2C, 2D1 &, 2D



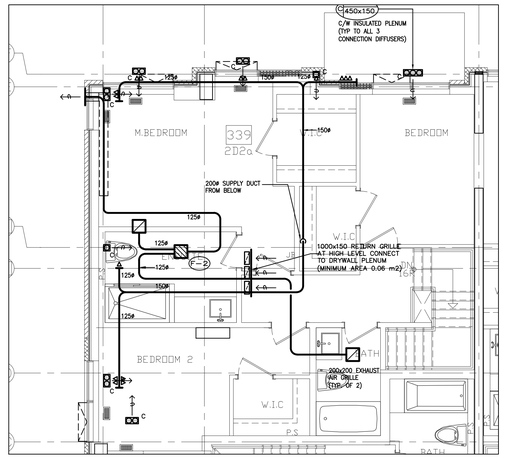
GROUND FLOOR TYPICAL
SUITE LAYOUT TYPE 2A1



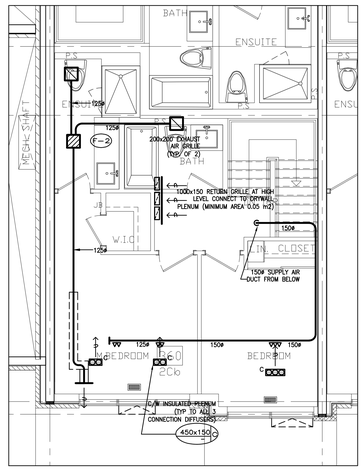
2ND FLOOR TYPICAL SUITE LAYOUT TYPE 2D2
4TH FLOOR TYPICAL SUITE LAYOUT TYPE 2D2



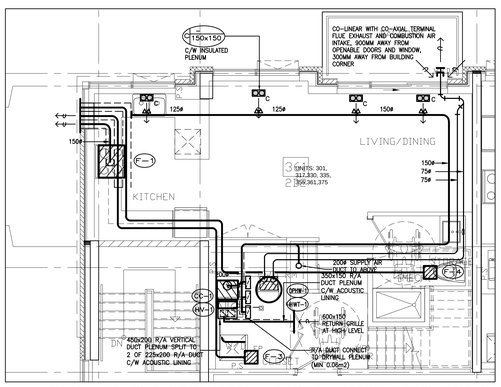
2ND FLOOR TYPICAL SUITE LAYOUT TYPE 2Ca
4TH FLOOR TYPICAL SUITE LAYOUT TYPE 2Ca



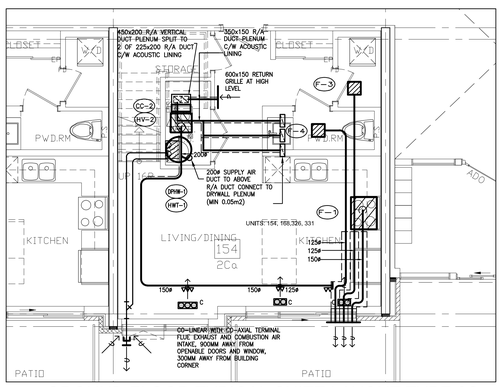
2ND FLOOR TYPICAL SUITE LAYOUT TYPE 2D2a
4TH FLOOR TYPICAL SUITE LAYOUT TYPE 2D2a



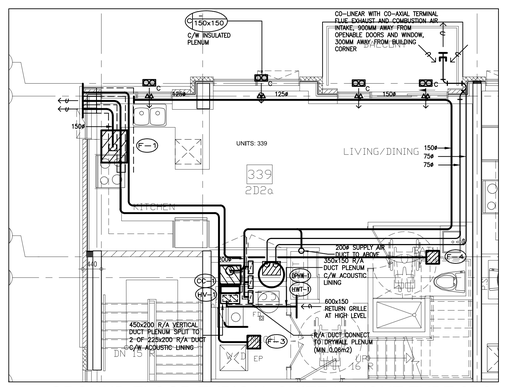
2ND FLOOR, 4TH FLOOR TYPICAL
SUITE LAYOUT TYPE 2Cb



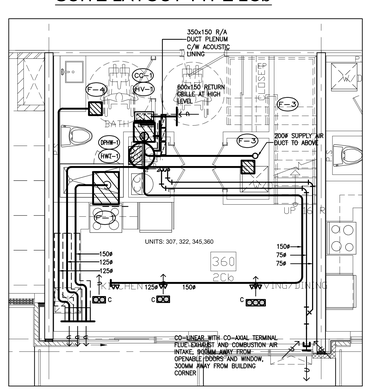
GROUND FLOOR TYPICAL SUITE LAYOUT TYPE 2D2
3RD FLOOR TYPICAL SUITE LAYOUT TYPE 2D2



GROUND FLOOR TYPICAL SUITE LAYOUT TYPE 2Ca
3RD FLOOR TYPICAL SUITE LAYOUT TYPE 2Ca



GROUND FLOOR TYPICAL SUITE LAYOUT TYPE 2D2a
3RD FLOOR TYPICAL SUITE LAYOUT TYPE 2D2a



GROUND FLOOR, 3RD FLOOR TYPICAL
SUITE LAYOUT TYPE 2Cb

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03	RC	ADDENDUM #04	JUN. 12, 2020
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01	RC	ISSUED FOR TENDER	AUG. 02, 2019
NO.	BY	DESCRIPTION	DATE

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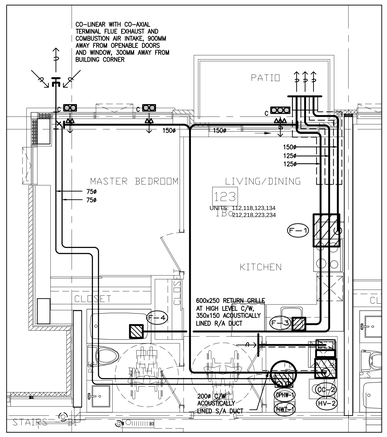
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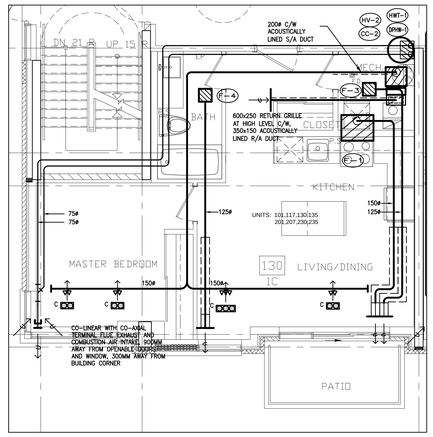
TITLE
TYPICAL SUITES LAYOUT MECHANICAL

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE BRAMPTON, ONTARIO

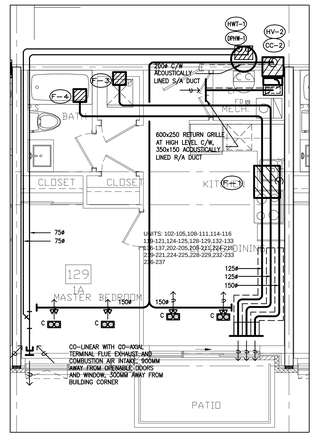
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MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-46
		OF -



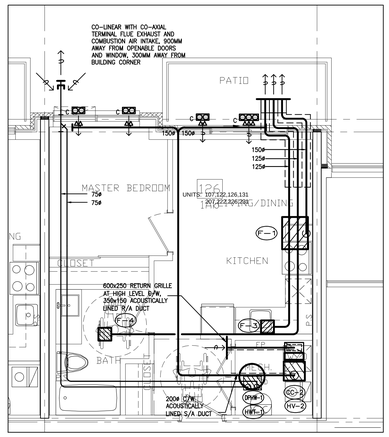
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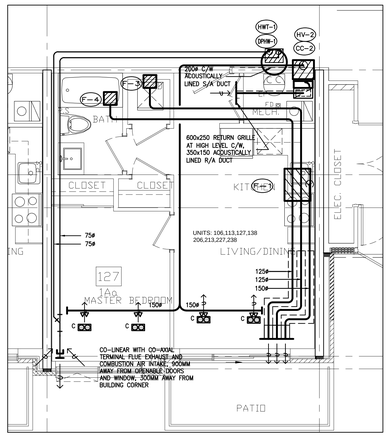
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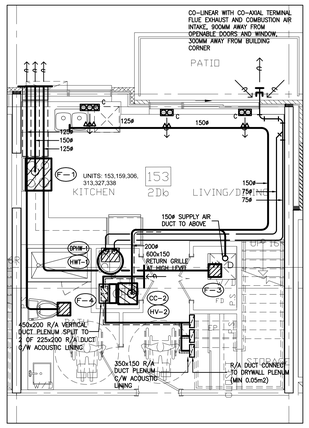
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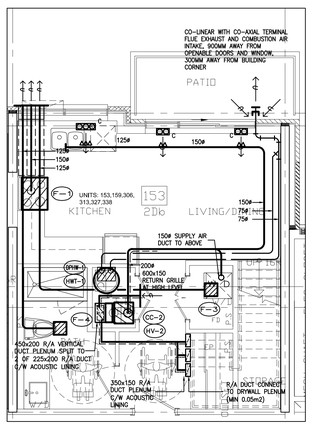
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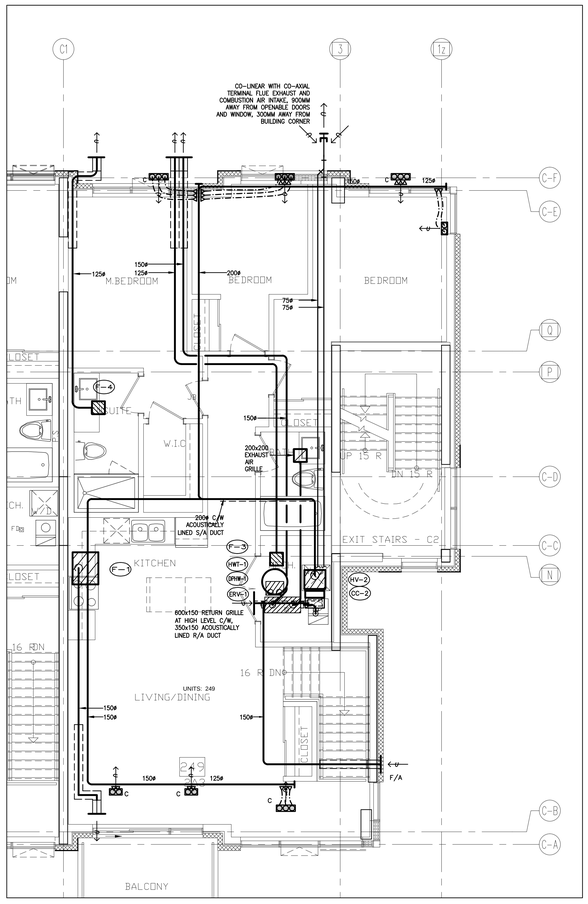
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2ND FLOOR, 4TH FLOOR TYPICAL SUITE LAYOUT TYPE 2Db



GRD FLOOR, 3RF FLOOR TYPICAL SUITE LAYOUT TYPE 2Db



SECOND FLOOR TYPICAL SUITE LAYOUT TYPE 2A3

NO.	BY	DESCRIPTION	DATE
07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
06	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
05	LB	ISSUED AS PER ADD M-05	JAN. 20, 2021
04	LB	ISSUED FOR PERMIT	SEP. 28, 2020
03	RC	ADDENDUM #04	JUN. 12, 2020
02	RC	ADDENDUM #02	SEP. 13, 2019
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

REVISIONS

This drawing, is an instrument of service, is provided by and is the property of United Engineering Inc. The contractor must verify and accept responsibility for all dimensions and conditions on site and must notify United Engineering Inc. of any discrepancy before proceeding.
United Engineering Inc. is not responsible for the accuracy of Architectural, structural, interior design, etc. on this drawing.
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TITLE
TYPICAL SUITES LAYOUT MECHANICAL

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-47
		OF -

EQUIPMENT SCHEDULE

UNIT No	DESCRIPTION	LOCATION	HEATING M.B.H.	HEATING L/S C.F.M.	COOLING TOTAL M.B.H.	COOLING TOTAL L/S C.F.M.	L/S G.P.M.	EXTERNAL S.P. INS.	POWER K.P.A.	POWER K.W. AMPS/HP	R.P.M.	ELECTRICAL CHARACTERISTICS	MAKE	MODEL	WEIGHT KG LBS	OPERATING CONDITIONS	REMARKS
(SHW-1)	CONDENSING COMBI BOILER	TOWNHOUSES	97 MBH							180W		120/1/60	GLOW BRAND	C95	250		2-PIPE VENT, C/W CONCRETE WALL TERMINATION VENT KIT SUITABLE FOR COMBINATION DOMESTIC HOT WATER AND AND HEATING APPLICATION
HV-1	AIR HANDLER	TOWNHOUSES	46.28 MBH		2 TONS	750				9.9 A		120/1/60	MAX AIR	70e	95		BTUH HEATING @ 140 F EWT
HV-2	AIR HANDLER	TOWNHOUSES	35.19 MBH		1.5 TONS	580				7.7 A		120/1/60	MAX AIR	50e	85		BTUH HEATING @ 140 F EWT
CND-1, CC-1	CONDENSING UNIT/COOLIN COIL	TOWNHOUSES			2 TONS					25A MAX FUSE MCA 17.6		230/1/60	CARRIER	25HHA424	187		SEER 13, REFRIGERAT R410A
CND-2, CC-2	CONDENSING UNIT/COOLIN COIL	TOWNHOUSES			1.5 TONS					20A MAX FUSE MCA 11.8		230/1/60	CARRIER	25HHA418	187		SEER 13, REFRIGERAT R410A
ERV-1	ENERGY RECOVERY VENTILATOR	TOWNHOUSES		125CFM 0.4" WG						2 OF 1/10 HP		120/1/60	LIFEBREATH	METRO 120 ERV	100		SRE @ 0°C = 74%

HOT WATER TANK

TAG	MANUFACTURER	MODEL NUMBER	TYPE	SERVICE	LOCATION	STORAGE CAPACITY (LITERS)	KW	ELECTRICAL CHARACTERISTICS	TEMP RISE (°F)	FLOW RATE AT TEMP RISE	VENT	REMARKS
(HWT-1)	GIANT	152ETE-9GTM	INDIRECT STORAGE TANK	TOWNHOUSE	MECH RM	186L (40.5GALS)						
(HWT-2)	OA SMITH POINT OF USE	EJC-2	ELECTRIC	BASEMENT WASHROOM	ABV CLG	10L (2.5 USGAL)	1.5	120/1/60	90			
(HWT-3)	OA SMITH POINT OF USE	DEL-20S	ELECTRIC	BASEMENT JANITOR'S RM	ABV CLG	74L (19 USGAL)	6.0	208/1/60	90			
(HWT-4)	OA SMITH POINT OF USE	EEC-2P155V	ELECTRIC	THIRD FLOOR WASHROOM	UNDER CABINET	9.5L (2.5 USGAL)	1.4	120/1/60	90			

PUMP SCHEDULE

NO.	TYPE	LOCATION	CAPACITY U.S.GPM L/S	PRES.DIF. FT. KPA.	RPM	H.P. K.W.	ELECTRICAL CHARACTERISTICS	MAKE	MODEL	REMARKS
(P-1)	DOMESTIC WATER BOOST PUMP	PARKING RM	280	80PSI	3600	25/25HP	600/3/60	BELL & GOSSETT TECHNOFORCE XLS		C/W CONTROL PANEL, VARIABLE SPEED DRIVE
(P-2)	SANITARY SUMP PUMP	PARKING LEVEL	120	40	1750	2 HP	208/3/60	BARNES	2SEV-L	DUPLEX C/W ALTERNATOR & HIGH WATER ALARM
(P-3)	STORM SUMP PUMP	PARKING LEVEL	120	40	1750	2 HP	208/3/60	BARNES	2SEV-L	DUPLEX C/W ALTERNATOR & HIGH WATER ALARM
(P-4)	ELEVATOR SUMP PUMP	PARKING LEVEL	50	40	1750	1.0 HP	120/1/60	HYDROMATIC	SP-40	SIMPLEX C/W HIGH WATER ALARM
(P-5)	BASEMENT WASHROOM	PARKING LEVEL	80	70	1750	3 HP	600/3/60	BARNES	SP-40	GRINDER

NOTES:

SPLIT TYPE AC EQUIPMENT REMARKS,

1. CONTRACTOR SHALL PROVIDE DRAIN LINES FROM THE AC UNIT TO THE NEAREST DRAINS. PROVIDE CONDENSATE PUMP IF THE GRAVITY DISCHARGE IS NOT AVAILABLE.
2. LOW AMBIENT APPLICATION.
3. CONTRACTOR SHALL VERIFY THE LENGTH OF THE REFRIGERANT LINES BETWEEN THE CONDENSING UNIT AND ASSOCIATED INDOOR AC UNIT TO MEET THE MANUFACTURER'S REQUIREMENT.
4. OUTDOOR CONDENSING UNITS SHALL BE SECURED IN PLACE, LEVELED AND PLUMBED ON VIBRATION ISOLATION PADS, ON PRESSURE TREATED WOODEN SLEEPERS.
5. CONTRACTOR SHALL INSTALL THE REFRIGERATION PIPING DISTRIBUTION PER THE MANUFACTURER'S INSTRUCTIONS.

SPLIT SYSTEM EQUIPMENT SCHEDULE

UNIT No	DESCRIPTION	LOCATION	HEATING K.W. M.B.H.	HEATING L/S C.F.M.	COOLING TOTAL K.W. M.B.H.	COOLING TOTAL L/S C.F.M.	L/S G.P.M.	EXTERNAL S.P. INS.	POWER K.P.A.	POWER K.W. AMPS/HP	R.P.M.	ELECTRICAL CHARACTERISTICS	MAKE	MODEL	WEIGHT	OPERATING	
E-1	SPLIT SYSTEM BLOWER & COIL	ELEV MACH ROOM			18.0	570				MOCP 15A MCA 1A		208/1/60	CARRIER	40MKCB18B---3			C/W REMOTE SYSTEM TUBING KIT MODEL# TRDS-SCS, LOW AMBIENT CONTROL KIT, RUN REFRIGERANT PIPES THROUGH ELEV MACH RM WALL, RUN CONDENSATE DRAIN THROUGH ELEV MACH RM WALL & TERMINATE OVER BOILER RM FLOOR DRAIN, UNIT TO BE INTERLOCKED EXHAUST SYSTEM TO SHUT-OFF EXHAUST SYSTEM UPON A/C UNIT OPERATION
E-2	SPLIT SYSTEM CONDENSER UNIT	GARAGE			18.0					MOCP 20A MCA 11.8A		208/1/60	CARRIER	24AHA418A003			
E-3	SPLIT SYSTEM HORIZONTAL BLOWER & COIL	GARBAGE ROOMS			24.0 MBH	800		0.4"		6.4FLA		208/1/60	CARRIER	42DEA082J1Y6A11R	250		C/W THERMOSTAT AND FILTER
E-4	SPLIT SYSTEM CONDENSING UNIT	GARAGE			24.0 MBH					MOP 25A MCA 14.8A		208/1/60	CARRIER	24AHA424A003			C/W EXPANSION VALVE KIT, LOW AMBIENT CONTROL KIT, RUN REFRIGERANT LINES FROM GARAGE TO BLOWER ON GROUND FLR
E-5	SPLIT SYSTEM HORIZONTAL BLOWER & COIL	LOBBY			24.0 MBH	800		0.4"	15kW	ELEC HEATER 1/2 HP		208/1/60	CARRIER	FV4CNB002			C/W 15kW ELECTRIC HEATER, THERMOSTAT AND FILTER
E-6	SPLIT SYSTEM CONDENSER UNIT	LOBBY ROOF			24.0 MBH					MOP 30A MCA 19A		208/1/60	CARRIER	25HHA424			HEAT PUMP TYPE C/W EXPANSION VALVE KIT, LOW AMBIENT CONTROL KIT, RUN REFRIGERANT LINES FROM ROOF CONDENSER TO 2ND FCU AT 2ND FLR

MAKE-UP AIR UNIT

UNIT No	DESCRIPTION	LOCATION	HEATING K.W. M.B.H.	HEATING L/S C.F.M.	COOLING TOTAL K.W. M.B.H.	COOLING TOTAL L/S C.F.M.	L/S G.P.M.	EXTERNAL S.P. INS.	POWER K.P.A.	POWER K.W. AMPS/HP	R.P.M.	ELECTRICAL CHARACTERISTICS	MAKE	MODEL	WEIGHT	OPERATING	
MAU-1	MAKE-UP AIR UNIT, INDIRECT GAS FIRED HEATING, DX COOLING	BLK 'D' ROOF	HEATING DUCT 250 MBH	5500	DX COIL 186 MBH			0.75"		40AMP 7.5 HP	1276	575/3/60	ENG AIR	FWE143/DJX60/MV	4400		C/W VARIABLE FREQUENCY DRIVE WITH TIME CLOCK AND TWO SETTINGS C/W BYPASS, HOT GAS REHEAT, AMBIENT COMPENSATING PACKAGE ECONOMIZER, VIBRATION ISOLATORS, FILTERS, SMALL & INSULATED CABINET
MAU-2	MAKE-UP AIR UNIT, INDIRECT GAS FIRED HEATING, DX COOLING	BLK 'C' ROOF	HEATING DUCT 375 MBH	3700	DX COIL 123 MBH			0.75"		30AMP 5.0 HP	1217	575/3/60	ENG AIR	FWE93/DJX40/MV	4200		C/W VARIABLE FREQUENCY DRIVE WITH TIME CLOCK AND TWO SETTINGS C/W BYPASS, HOT GAS REHEAT, AMBIENT COMPENSATING PACKAGE ECONOMIZER, VIBRATION ISOLATORS, FILTERS, SMALL & INSULATED CABINET
MAU-3	MAKE-UP AIR UNIT, INDIRECT GAS FIRED HEATING, DX COOLING	BLK 'B' ROOF	HEATING DUCT 750 MBH	6950	DX COIL 246 MBH			0.75"		50AMP 7.5 HP	1059	575/3/60	ENG AIR	FWE183/DJX100/MV	6000		C/W VARIABLE FREQUENCY DRIVE WITH TIME CLOCK AND TWO SETTINGS C/W BYPASS, HOT GAS REHEAT, AMBIENT COMPENSATING PACKAGE ECONOMIZER, VIBRATION ISOLATORS, FILTERS, SMALL & INSULATED CABINET
MAU-4	MAKE-UP AIR UNIT, INDIRECT GAS FIRED HEATING, DX COOLING	BLK 'A' ROOF	HEATING DUCT 540 MBH	8700	DX COIL 273 MBH			0.75"		50AMP 7.5 HP	926	575/3/60	ENG AIR	FWE224/DJX100/MV	6600		C/W VARIABLE FREQUENCY DRIVE WITH TIME CLOCK AND TWO SETTINGS C/W BYPASS, HOT GAS REHEAT, AMBIENT COMPENSATING PACKAGE ECONOMIZER, VIBRATION ISOLATORS, FILTERS, SMALL & INSULATED CABINET

NOTE: ALL SUITE FANS SHOULD BE HVI (2001) PERFORMANCE CERTIFIED
✳ NOTE: MOTORS FOR SPECIFIED EQUIPMENT TO BE HIGH EFFICIENCY. TO ASHRA 90.1 STANDARDS

FAN SCHEDULE

NO.	TYPE	LOCATION	CAPACITY CFM L/S	STATIC(S.P.) INCHES KPA.	RPM	H.P. K.W.	ELECTRICAL CHARACTERISTICS	MAKE	MODEL	OPENING INCHES MM	REMARKS
(F-1)	EXHAUST	SUITE	100 50	.30		2.0AMPS	120/1/60	BROAN BROAN GREY REVERSOMATIC	XT-230 50-200 200C-200		COLOUR BY ARCHITECT VARIABLE SPEEDS
(F-2)	WASHROOM INLINE EXH FAN	SUITE	205	.30		2.5AMPS	120/1/60	REVERSOMATIC	TL-240ES		SOUND RATED TO BE LESS THAN 3.5 SONES
(F-3)	DRYER EXHAUST	SUITE	100 50	.40	2800	1.15AMPS	120/1/60	BROAN SENSOMATIC 226EX	DRC-100 DFTM2		FACTORY MOUNTED & WIRED DRYER BOOST FAN, C/W INTAKE DAMPER
(F-4)	EXHAUST	SUITE	75	.30	1266	0.18AMPS	120/1/60	PANASONIC	FV-07VB1+FV-07VBH		SOUND RATED TO BE LESS THAN 3.5 SONES
(F-5)	PARKING LEVEL EXHAUST	U/G GARAGE	27,470	.25	770	5 HP	600/3/60	PENN	BCH48	54"X54"	DUAL SPEED
(F-6)	AIR MOVING FAN	U/G GARAGE	3500	.25	492	1 HP	600/3/60	PENN	ZCC12		OVERALL SOUND POWER SHALL BE 75dBA OR LESS
(F-7)	EXHAUST	SUB ELECT RM BLDG C	2350	.25	559	0.45 HP	120/1/60	PENN	ZC12		C/W REVERSE ACTING LINE VOLT THERMOSTAT
(F-8)	EXHAUST	METER RM	377	.25	1550	130 WATTS	120/1/60	PENN	ZBH		INTERLOCK WITH TEMPERATURE SENSOR/MOT. DAMPER
(F-9)	EXHAUST	BWH RM-BLD D LOCKER RM-3RD FLR	166	.25	1550	108 WATTS	120/1/60	PENN	Z6H		
(F-10)	EXHAUST	GARBAGE RM BLDG A GARBAGE RM BLDG C	1250	.375	1420	1/3 HP	120/1/60	PENN	REX12B		EASYTAP DUAL SPEED MOTOR. WIRED ON LOW SPEED
(F-11)	EXHAUST	SUB ELECT RM BLDG A	4700	.25	406	0.74 BHP	120/1/60	PENN	ZCC15		
(F-12)	EXHAUST	SUB ELECT RM BLDG B	3768	.125	1050	1/2 HP	120/1/60	PENN	BREEZEWAY P18VA		C/W REVERSE ACTING LINE VOLT THERMOSTAT
(F-13)	EXHAUST	SUB ELECT RM BLDG C	2856	.125	1300	1/2 HP	120/1/60	PENN	BREEZEWAY P16SA		C/W REVERSE ACTING LINE VOLT THERMOSTAT
(F-14)	EXHAUST	BWH RM-BLD A	196	.125	1550	108 WATTS	120/1/60	PENN	Z6H		
(F-15)	EXHAUST	LOCKER RM #2	812	.25	1050	263 WATTS	120/1/60	PENN	Z12S		
(F-16)	EXHAUST	GARBAGE RM BLDG B GARBAGE RM BLDG D	900	.375	1750	1/4 HP	120/1/60	PENN	REX10Q		EASYTAP DUAL SPEED MOTOR. WIRED ON LOW SPEED
(F-17)	EXHAUST	BWH RM BLDG B BWH RM BLDG C	122	.375	1550	108 WATTS	120/1/60	PENN	Z6H		
(F-18)	EXHAUST	LOCKER RM #1	1301	.25	1550	810 WATTS	120/1/60	PENN	Z102H		
(F-19)	EXHAUST	LOCKER RM #3,#5	196	.125	1550	108 WATTS	120/1/60	PENN	Z6H		TO RUN CONTINUOSLY C/W LETROL SPEED CONTROLLER
(F-20)	EXHAUST	LOCKER #4	350	.125	1550	130 WATTS	120/1/60	PENN	Z8H RA		TO RUN CONTINUOSLY C/W LETROL SPEED CONTROLLER
(F-21)	EXHAUST	SUB ELECT RM BLDG C	2088	.100	1050	1/3 HP	120/1/60	PENN	BREEZEWAY P16VA		C/W REVERSE ACTING LINE VOLT THERMOSTAT
(F-22)	EXHAUST	MECHANICAL RM	500	.25	1550	79 WATTS	120/1/60	PENN	Z5H		
(F-23)	EXHAUST	BOARD ROOM	467	.25	1050	153 WATTS	120/1/60	PENN	Z101S		
(F-24)											
(F-25)											
(F-26)											

BRANCH SIZES SCHEDULE

FOR DOMESTIC HOT AND COLD WATER

UNIT	HOT (Inches) (mm Dia)	COLD (Inches) (mm Dia)
SINGLE KITCHEN	13mm (1/2")	13mm (1/2")
SINGLE BATHROOM	13mm (1/2")	13mm (1/2")
SINGLE BATHROOM/SINGLE KITCHEN	13mm (1/2")	13mm (1/2")
INDIVIDUAL WASHER	13mm (1/2")	13mm (1/2")
DOUBLE BATHROOM	13mm (1/2")	13mm (1/2")
DOUBLE BATHROOM	19mm (3/4")	19mm (3/4")
THREE OR MORE BATHROOMS	19mm (3/4")	19mm (3/4")

BRANCH SIZES SCHEDULE

FOR SANITARY LINES CONNECT TO TOWNHOUSES

UNIT	mm (Inches)
WATER CLOSET (TANK)	75mm (3")
SHOWER	50mm (2")
BATHTUB/KITCHEN SINK	40mm (1-1/2")
LAVATORY	32mm (1-1/4")
FLOOR DRAIN	75mm (3")
LAUNDRY WASHER	40mm (1-1/2")
PLUMBING RISER	100mm (4")

TYPICAL SUITE NOTES:

- LAST 6 FEET OF ALL EXHAUST DUCTWORK AND FRESH AIR DUCTWORK C/W INSULATION & VAPOUR BARRIER (TYPICAL)
- PROVIDE ACOUSTIC INSULATION ON SUPPLY AND RETURN DUCTWORK UP TO 5'-0" FROM HV UNIT
- VENTILATION CONTRACTOR SHALL SUPPLY & INSTALL THE FLEXIBLE DRYER HOSE FROM DRYER TO THE EXHAUST FAN AND RIGID EXHAUST DUCT UNLESS OTHERWISE NOTED BY OWNER
- MECHANICAL CONTRACTOR SHALL MAKE ALL DIRECT PLUMBING & DRAINAGE CONNECTIONS TO THE DISHWASHER (C/W SHUT-OFF VALVE & COPPER SUPPLY PIPE)
- DUCT SIZES:
  KITCHEN EXHAUST: 6"ø
  DRYER EXHAUST: 5"ø
  SINGLE WASHROOM EXHAUST: 5"ø
  DOUBLE WASHROOM EXHAUST: 6"ø

PROVIDE 5" OR 3"ø COMBUSTION AND 2"OR 3"ø VENT FOR EACH HIGH BOILER HB-1 OR 2 AND TERMINATE WITH CONCENTRIC ADAPTER ON THE WALL/ROOF. MAINTAIN THE CLEARANCE FROM THE OPERABLE WINDOW AND DOOR. TERMINATION HEIGHT ON ROOF PER MANUFACTURER'S INSTALLATION MANUAL.

AIR OUTLETS
- "C" CEILING MOUNTED
- "F" FLOOR MOUNTED
- "W" WALL MOUNTED

* PROVIDE 6" TO 8" Ø 3-1/2"R FLEXIBLE DUCT FROM DUCT TRUNK TO EACH OUTLET DIFFUSER

PIPING
* INSTALL ALL PIPING AWAY FROM BUILDING EXTERIOR WALLS TO AVOID PIPE FREEZING

GRILLE SCHEDULE

TYPE/RATE SIZE/STYLE	DESCRIPTION	DAMPER	MAKE	TYPE	NOTES
A	CORRIDOR FRESH AIR SUPPLY	YES	EH PRICE	6300	19MM LOUVER SPACING, FIXED LOUVRE, 45 DEGREE DEFLECTION
B	EXHAUST/ RETURN	NO	EH PRICE	630	19MM LOUVER SPACING, FIXED LOUVRE, 45 DEGREE DEFLECTION
C	SUPPLY	YES	EH PRICE	6200	19MM LOUVER SPACING, DOUBLE DEFLECTION
D	LINEAR DIFFUSER	YES	EH PRICE	SDS TYPE B	25MM WIDE INSULATED SLOT DIFFUSER, COLOUR SUBJECT TO ARCH APPROVAL C/W ENGINEERED PLENUM, CONCEALED MOUNTING BRACKET

FORCE FLOW HEATER

UNIT No.	DESCRIPTION	CAPACITY	MAKE	MODEL	ELECTRICAL CHARACTERISTICS	NOTES
H-1	ELECTRIC FORCE FLOW HEATER	12kW	OULLET	OAWH12008-TAV	208/1/60	TRIPLE FORCE FLOW HEATER
H-2	ELECTRIC FORCE FLOW HEATER	8kW	OULLET	OAWH08008-TAV	208/1/60	DOUBLE FORCE FLOW HEATER
H-3	ELECTRIC FORCE FLOW HEATER	4.8kW	OULLET	OAWH04808-TAV	208/1/60	SINGLE FORCE FLOW HEATER

ACOUSTIC REQUIREMENTS

DRAWINGS TO BE READ IN CONJUNCTION WITH ACOUSTIC DESIGN REVIEW REPORT. ACOUSTIC REPORT SHALL BE PART OF THE MECHANICAL CONTRACTORS CONTRACT.

ALL EQUIPMENT ISOLATION MOUNTS SHALL BE CHOSEN ON THE BASIS OF ACHIEVING AT LEAST 85% VIBRATION ISOLATION EFFICIENCY AT THE LOWEST OPERATING SPEED. THAT IS, THE NATURAL FREQUENCY OF EACH VIBRATION ISOLATION SYSTEM SHALL BE NO HIGHER THAN 1/10 OF THE LOWEST EXCITATION FREQUENCY OF ROTATING MACHINERY, WHENEVER PRACTICABLE, BUT IN NO CASE GREATER THAN 1/7. WHERE STRUCTURAL SUPPORT (FLOOR OR ROOF, ETC.) DEFLECTION WILL EXCEED 1/10 OF THE DETERMINED STATIC DEFLECTION OF THE ISOLATOR, INCREASE THE ISOLATOR STATIC DEFLECTION TO MAINTAIN A MINIMUM RATIO OF ISOLATOR DEFLECTION TO FLOOR DEFLECTION OF 10:1. STATIC DEFLECTIONS SHOWN ON THE DRAWINGS.

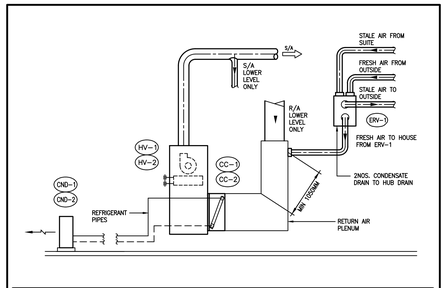
SPECIFICATIONS, OR SCHEDULES ARE A GUIDE ONLY. REQUIRED NATURAL FREQUENCIES AND STATIC DEFLECTIONS ARE TO BE DETERMINED, IN ACCORDANCE WITH THE ABOVE RELATIONSHIPS, BASED ON ACTUAL EXCITATION FREQUENCIES AND OTHER CHARACTERISTICS OF FINAL EQUIPMENT SELECTION. SELECTED VIBRATION ISOLATION MOUNTS ARE TO ACHIEVE THE REQUIRED STATIC DEFLECTION UNDER LOAD, WITH AT LEAST 50% RESERVE DEFLECTION. SUBMIT SHOP DRAWINGS IDENTIFYING EQUIPMENT, LOWEST OPERATING SPEED, WEIGHT, BRAND, TYPE AND LOCATION OF ISOLATORS PRIOR TO ORDERING OR FABRICATION.

PUMPS -- FOR PUMPS OPERATING AT 1800 RPM, ISOLATORS WITH A MINIMUM STATIC DEFLECTION OF 1" WILL BE REQUIRED. IN MOST CASES, THIN RUBBER PADS DO NOT PROVIDE ADEQUATE STATIC DEFLECTION FOR SPRING ISOLATORS OR HIGHER DEFLECTION ELASTOMERIC ISOLATORS WILL BE REQUIRED.
PIPE CONNECTIONS TO PUMPS SHOULD INCLUDE FLEXIBLE CONNECTIONS, SUCH AS WITH THE USE OF TWINSPHERE JOINTS.
PIPE SUPPORTS/HANGERS WITHIN MECHANICAL ROOMS SHOULD INCORPORATE VIBRATION ISOLATION.

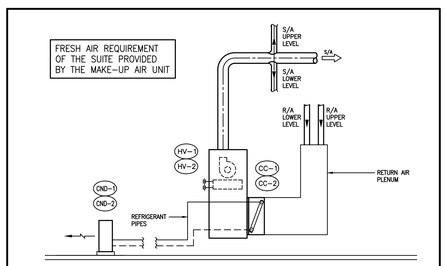
THE SUITE HVAC UNITS MUST BE VIBRATION ISOLATED FROM THE BUILDING STRUCTURE. THE SUITE HVAC UNITS SHOULD BE PLACED ON RESILIENT PADS.

TO MAINTAIN THE SOUND ISOLATION PERFORMANCE OF WALL AND FLOOR/CEILING ASSEMBLIES BETWEEN SUITES:
ALL PIPE PENETRATIONS SHOULD BE SEALED AIR TIGHT. AT VERTICAL PIPE SPACES, THE GYPSUM BOARD FORMING THE PIPE SPACE SHOULD EXTEND UP TO THE UNDERSIDE OF THE DEMISING CEILING ABOVE, RATHER THAN STOPPING AT THE DROPPED FINISHED CEILING.

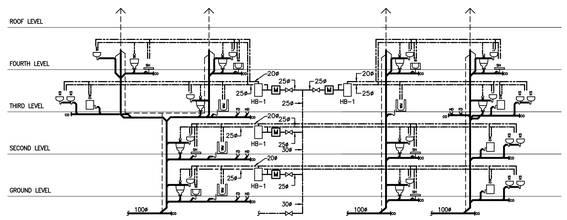
TO CONTROL TRANSMISSION OF PLUMBING NOISE TO SUITES:
CAST IRON DRAIN PIPE SHOULD BE USED FOR STORM AND SANITARY DRAINS. BATT INSULATION SHOULD BE INCLUDED IN VERTICAL PIPE SPACES AS WELL AS DROPPED CEILINGS OR BULKHEADS THAT CONTAIN HORIZONTAL PLUMBING OFFSETS. IF A TRAP OR ELBOW IS LOCATED IN THE CEILING SPACE/BULKHEAD OF A NOISE SENSITIVE SPACE: BOX IN THE DRAIN/ELBOW WITH TWO LAYERS OF GYPSUM BOARD LINED WITH BATT INSULATION; OR ACOUSTICALLY LAG THE PIPE WITH FIBREGLASS PIPE INSULATION AND AN OUTER LAYER OF FLEXIBLE NOISE CONTROL MEMBRANE. REFER TO FIGURE 6-1 OF ACOUSTIC REPORT FOR DETAILS. MAIN RISERS AND MAIN HORIZONTAL OFFSETS LOCATED IN OR NEAR NOISE SENSITIVE SPACES SHOULD BE SUPPORTED USING RESILIENT HANGERS OR MOUNTS. SEE FIGURE 6-2 OF ACOUSTIC REPORT.



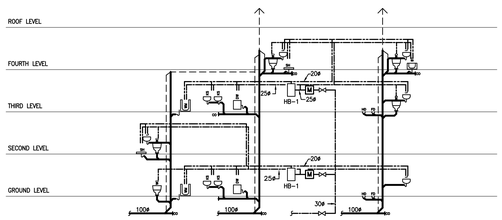
HV UNIT, COOLING COIL, CONDENSING UNIT WITH ERV SCHEMATIC DIAGRAM



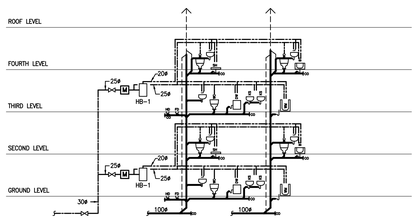
HV UNIT, COOLING COIL, CONDENSING UNIT WITHOUT ERV SCHEMATIC DIAGRAM



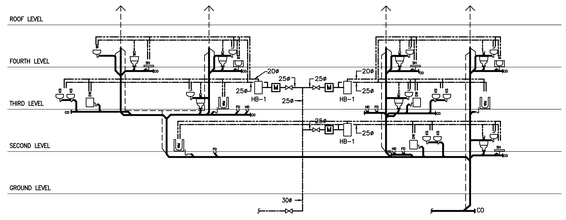
PLUMBING RISER TYPICAL FOR MODEL- 2A1/2A3/2C1/2D2
NTS



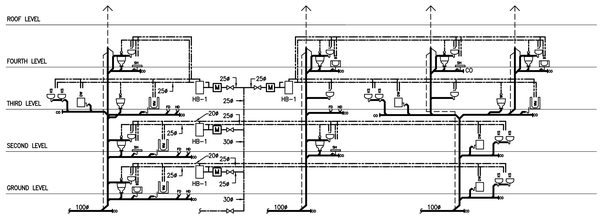
PLUMBING RISER TYPICAL FOR MODEL-2D1, 2D2
NTS



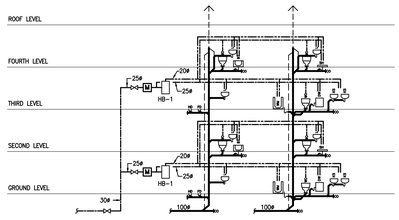
PLUMBING RISER TYPICAL FOR MODEL-2C1
NTS



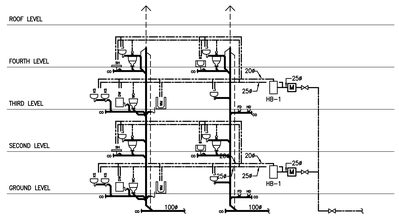
PLUMBING RISER TYPICAL FOR MODEL- 2A4/2C1/2D2
NTS



PLUMBING RISER TYPICAL FOR MODEL- 2A/2A2/2C/2D
NTS



PLUMBING RISER TYPICAL FOR MODEL-2C
NTS



PLUMBING RISER TYPICAL FOR MODEL- 2D
NTS

NO.	BY	DESCRIPTION	DATE
06	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
05	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
04	LB	ISSUED AS PER ADDENDUM M-05	JAN. 20, 2021
03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

REVISIONS

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United Engineering Inc. is not responsible for the accuracy of Architectural, structural, interior design, etc. on this drawing.
Refer to the appropriate trade drawings before proceeding with any work. Installation must conform to all applicable codes and requirements of the authorities having jurisdiction.
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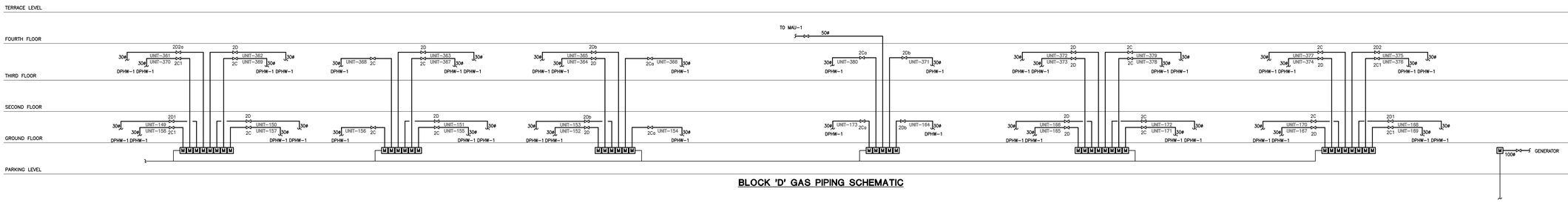
TITLE
SCHEDULES AND SCHEMATIC

PROJECT

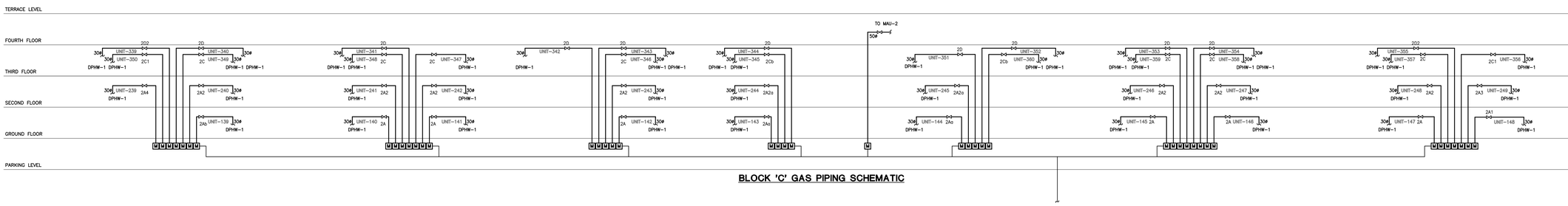
BRAMPTON STACKED FORESTSIDE ESTATES

ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

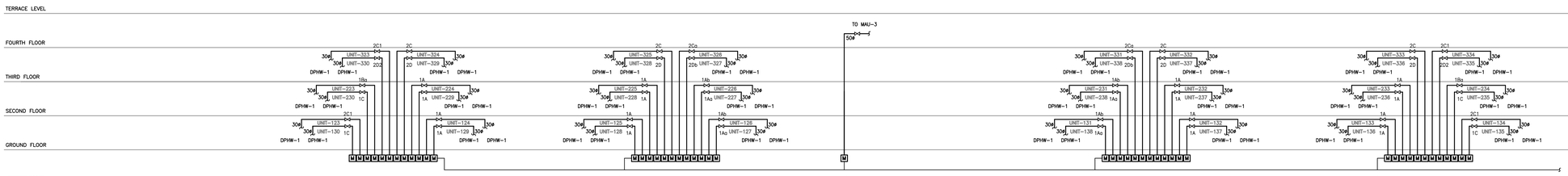
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MC	LM	N.T.S.
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-48
		OF -



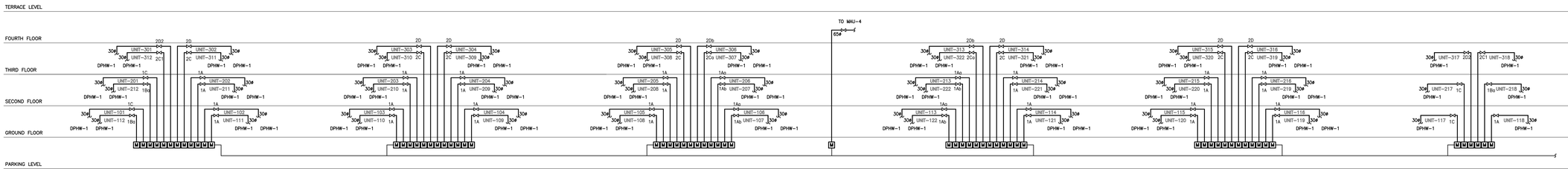
BLOCK 'D' GAS PIPING SCHEMATIC



BLOCK 'C' GAS PIPING SCHEMATIC



BLOCK 'B' GAS PIPING SCHEMATIC



BLOCK 'A' GAS PIPING SCHEMATIC

NO.	BY	DESCRIPTION	DATE
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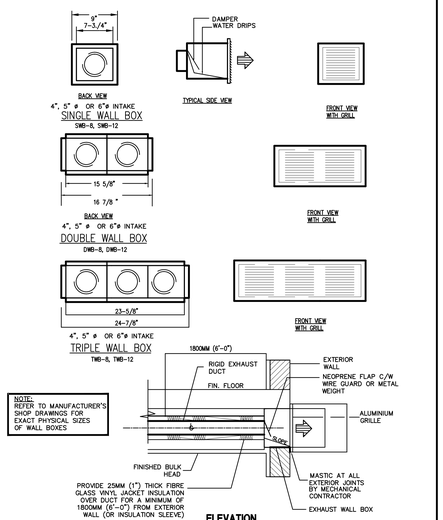
TITLE
GAS SCHEMATICS

PROJECT

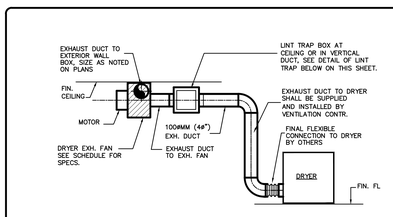
BRAMPTON STACKED FORESTSIDE ESTATES

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BRAMPTON, ONTARIO

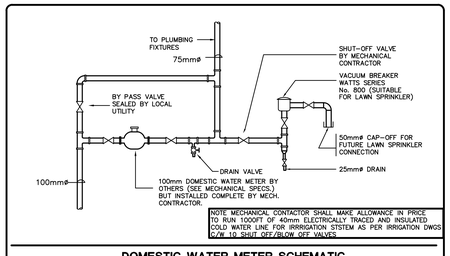
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MC	LM	N.T.S.
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-49
		OF -



EXHAUST WALL BOX

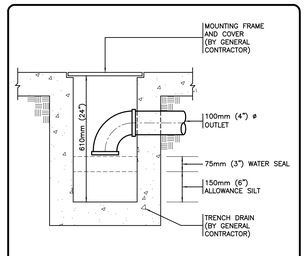


TYPICAL DRYER EXHAUST DUCT CONNECTION IN LAUNDRY ROM

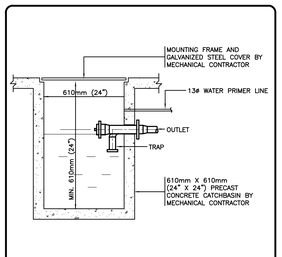


NOTE MECHANICAL CONTACTOR SHALL MAKE ALLOWANCE IN PRICE TO RUN 1000FT OF 40mm ELECTRICALLY TRACED AND INSULATED COLD WATER LINE FOR IRRIGATION SYSTEM AS PER IRRIGATION DWGS C/W 10 SHUT OFF/BLOW OFF VALVES

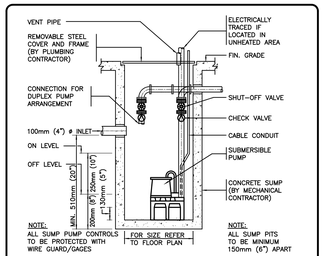
DOMESTIC WATER METER SCHEMATIC



DETAIL OF TRENCH DRAIN



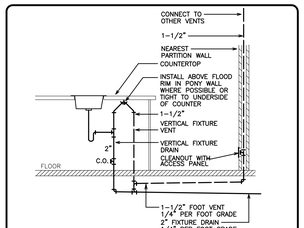
DETAIL OF CATCH BASIN



NOTE:
ALL SUMP PUMP CONTROLS
TO BE PROTECTED WITH
WIRE GUARD/GAGES

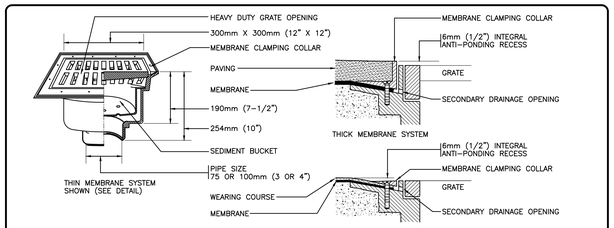
NOTE:
ALL SUMP PITS
TO BE MINIMUM
150mm (6") APART

DETAIL OF SUBMERSIBLE SUMP PUMP



THIS DETAIL APPLIES TO BAR SINK

ISLAND VENT DETAIL

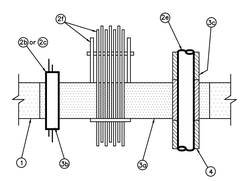


DETAIL OF PARKING GARAGE AREA DRAIN IN STRUCTURAL SLAB

SYSTEM NO. SP115

(FOR HORIZONTAL SEPERATIONS)

F RATING	--- 2 H
FT RATING	--- 0 H
FH RATING	--- 2 H
FTH RATING	--- 0 H



1. FLOOR ASSEMBLY –

MINIMUM 114mm (54") THICK CONCRETE FLOOR OF 2380 KG/M DENSITY, 30 MPA CONCRETE. MAXIMUM SIZE OF OPENING, 420mm (23") BY 635mm (25").

2. PIPES, CABLES AND CABLE TRAYS –

(A) ONE 350 MCM CABLE MARKED "I RA90 XPLE HL FTA (400 30 1000 V 1988)", RELIABLY SUPPORTED ABOVE THE THROUGH OPENING. MINIMUM SPACE OF 25mm (1") REQUIRED BETWEEN CABLE AND PERIMETER OF THROUGH OPENING, 50mm (2") SPACE REQUIRED BETWEEN CABLE AND OTHER PENETRATING ITEMS.

(B) ONE 60mm (2-1/2") DIAMETER PVC PIPE, 5mm (1/5") WALL THICKNESS, MARKED "50mm (2") CAN-DUIT RIGID PVC CONDUIT 75ø. PIPE TO CAST IN PLACE IN "COMPOUND 1000" MORTAR (ITEM 3A) AND FILLED WITH "COMPOUND 1000" MORTAR TO MINIMUM THICKNESS 114mm (54"). PIPE TO EXTEND 50mm (2") ABOVE TOP SURFACE OF FLOOR, MAY BE FLUSH WITH OR EXTEND UP TO 50mm (2"), BELOW BOTTOM SURFACE OF FLOOR. MINIMUM SPACE OF 25mm (1") REQUIRED BETWEEN PIPE AND EDGE OF THROUGH OPENING. MINIMUM SPACE OF 50mm (2") BETWEEN PIPES OF THIS TYPE. MINIMUM SPACE 50mm (2") BETWEEN PIPE AND CABLE TYPE 2A. MINIMUM SPACE OF 300mm (12") BETWEEN PIPE AND OTHER TYPES OF PIPE (2D AND E) OR CABLE TRAY (ITEM 2F).

(C) ONE 60mm (2-1/2") DIAMETER PVC PIPE (ITEM 2B). "COMPOUND 1000" MORTAR (ITEM 2A) TO BE REMOVED FROM PIPE CAVITY. A MAXIMUM OF ONE EACH OF THE FOLLOWING CABLE TYPES MAY THEN BE INSTALLED THROUGH THE PIPE OPENING, RELIABLY SUPPORTED ABOVE THE OPENING.

i) TYPE 300 MCM THW CABLE
ii) TYPE #16 AWG –2
iii) TYPE #12 AWG 7–C

CABLES TO BE SPACED EQUAL DISTNCE APART WITHIN THE PIPE OPENING AND FROM THE EDGE OF THE PIPE. PIPE SPACING AS PER ITEM 2B. VOIDS TO BE FILLED WITH "PUTTY 200", ITEM 3B.

(D) NOMINAL 75mm (3") DIAMETER (OR SMALLER) EMT STEEL PIPE, 2mm (1/10") (MINIMUM) WALL THICKNESS, RELIABLY SUPPORTED ABOVE THE THROUGH OPENING. A MINIMUM CLEARANCE OF 45mm (1-1/2") TO BE MAINTAINED BETWEEN PIPE AND PERIMETER OF THE OPENING, 115mm (4-1/2") MINIMUM BETWEEN PIPE AND PIPE TYPE 2A, 300mm (12") MINIMUM BETWEEN PIPES AND OTHER TYPES OF PIPE OR CABLE.

(E) 75mm (3") DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER STEEL PIPE) RELIABLY SUPPORTED ABOVE THE THROUGH OPENING. PIPE TO BE WRAPPED WITH PIPE INSULATION ITEMS 4 AND 3C, PRIOR TO POURING MORTAR (ITEM 3A).

(F) NOMINAL 600mm (24") BY 100mm (4") STEEL LADDER TYPE CABLE TRAY RELIABLY SUPPORTED ABOVE THE FLOOR, SPACED 115mm (4–1/2") MINIMUM FROM OTHER CABLE TRAYS AND 13mm (1/2") FROM PERIMETER OF OPENING. MAXIMUM CABLE LOADING NOT TO EXCEED 40% BY AREA OF CABLE TRAY. THE FOLLOWING CABLE GROUPINGS MAY BE USED.

(I) A MAXIMUM OF 18 300 MCM TYPE THW CABLES
(ii) A MAXIMUM OF 164 16 AWC 600 V 90C UL–TR–1 CABLES
(iii) A MAXIMUM OF 29 12 AWC TYPE TC XHHU CDRS CABLES

TYPE OF PENETRATING ITEM(S)	FT AND FTH RATINGS, H
–NO PENETRATIONS "COMPOUND 1000" MORTAR ONLY	2
–2A)	1/2
–2B	2
–2C) i)	1/2
–2C) ii)	
–2C) iii)	1–1/2
–2C) – NO CABLES, "PUTTY 200" (ITEM 3B) ONLY	1–1/2
–2D)	1–1/2
–2E)	1–1/2
–2F) i)	1/2
–2F) ii)	1/2
–2F) iii)	1
–2F) – CABLE TRAY ONLY	1–1/2

3. FIRESTOP SYSTEM COMPONENTS (GUIDE NO. 4O U19.13) –

(A) "COMPOUND 1000" MORTAR, POURED TO A MINIMUM DEPTH OF 114mm (4–1/2"), VIBRATED TO ENSURE THAT ALL VOIDS BETWEEN CABLES, ETC. ARE FILLED.

(B) "PUTTY 200" USED WITH PIPE AND CABLES, ITEM 2C. PRESSED FIRMLY BY HAND TO FILL ALL VOIDS BETWEEN CABLES AND PERIMETER PIPE. MINIMUM DEPTH OF PUTTY 114mm (4–1/2").

(C) TYPE "P1" PIPE INSULATION 25mm (1") THICK, WRAPPED AROUND PIPE, ITEM 2A, WHERE PIPE PENETRATES FLOOR. INSULATION SHALL EXTEND 50mm (2") ABOVE AND BELOW SURFACES OF FLOOR. AT JOINTS WITH PIPE INSULATION, ITEM 4, MATERIALS TO BE BUTTED FIRMLY TOGETHER AND WRAPPED WITH JOINT TAPE.

4. PIPE INSULATION –

PIPE, ITEM 2A, TO BE WRAPPED WITH 25mm (1") (MINIMUM) THICK ULC LABELLED PIPE INSULATION (GUIDE NO. US.15.13) TO WITHIN 50mm (2") OF EACH SIDE OF FLOOR ASSEMBLY, BUTTED FIRMLY AGAINST TYPE "P1" INSULATION, ITEM 3C, AND JOINT WRAPPED WITH TAPE.

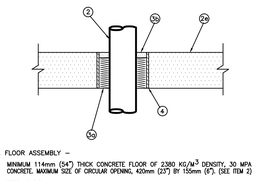
5. FORMING MATERIALS –

POLYSTYRENE BOARDS AND/OR POLYETHYMLENE FOAM FITTED TIGHTLY AGAINST PENETRATING ITEMS ON UNDERSIDE OF SYSTEM. IF LEFT IN PLACE, WILL NOT DETRACT FROM ASSIGNED RATINGS.

SYSTEM NO. SP115

(FOR HORIZONTAL SEPERATIONS)

F RATING	--- 2 H
FT RATING	--- 0 H
FH RATING	--- 2 H
FTH RATING	--- 0 H



1. FLOOR ASSEMBLY –

MINIMUM 114mm (54") THICK CONCRETE FLOOR OF 2380 KG/M DENSITY, 30 MPA CONCRETE. MAXIMUM SIZE OF OPENING, 420mm (23") BY 635mm (25").

2. STEEL PIPE –

NOMINAL 75mm (3") OUTSIDE DIAMETER (OR SMALLER) EMT STEEL PIPE, 2mm (1/12") (OR GREATER) WALL THICKNESS, ROLLABLY SUPPORTED ABOVE THE THROUGH OPENING. A CLEARANCE OF 13 TO 67mm (1/2" TO 2-1/2") SHALL BE MAINTAINED BETWEEN THE PIPE AND PERIMETER OF THE OPENING.

3. FIRESTOP SYSTEM COMPONENTS – (GUIDE NO. 4OU19.13).

A) "TYPE MM" INSULATION TO BE FIRMLY PACKED BY HAND (50± 10% COMPRESSION) TO A MINIMUM DEPTH OF 90mm (3-1/2"). MINIMUM 13mm (1/2") DEEP SPACE TO BE LEFT ABOVE INSULATION FOR ITEM 3B.

B) "TYPE 305 SL" FIRESTOP MATERIAL TO BE APPLIED OVER INSULATION (ITEM 3A) TO MINIMUM DEPTH OF 13mm (1/2")

INSTANT FIRESTOP INC.

2. SLEEVE (OPTIONAL) –

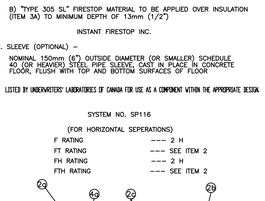
NOMINAL 150mm (6") OUTSIDE DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE SLEEVE, CAST IN PLACE IN CONCRETE FLOOR, FLUSH WITH TOP AND BOTTOM SURFACES OF FLOOR

LISTED BY UNDERWRITERS' LABORATORIES OF CANADA FOR USE AS A COMPONENT WITHIN THE APPROPRIATE DESIGN

SYSTEM NO. SP116

(FOR HORIZONTAL SEPERATIONS)

F RATING	--- 2 H
FT RATING	--- SEE ITEM 2
FH RATING	--- 2 H
FTH RATING	--- SEE ITEM 2



1. FLOOR ASSEMBLY –

MINIMUM 114mm (54") THICK CONCRETE FLOOR OF 2380 KG/M DENSITY, 30 MPA CONCRETE. MAXIMUM SIZE OF OPENING, 180mm (7") BY 635mm (25").

2. STEEL PIPE OR CABLES–

A) 90mm (3-1/2") OUTSIDE DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE, ROLLABLY SUPPORTED ABOVE THROUGH–OPENING, WRAPPED WITH PIPE INSULATING, ITEMS 4A AND 3. MINIMUM 63mm (1-1/2") SPACE BETWEEN PIPES. MINIMUM 38mm (1-1/2") SPACE BETWEEN PIPE AND PERIMETER OF THROUGH–OPENING.

B) NOMINAL 75mm (3") DIAMETER (OR SMALLER) EMT PIPE, 2mm (1/10") (OR GREATER) WALL THICKNESS, ROLLABLY SUPPORTED ABOVE THE THROUGH–OPENING. MINIMUM 330mm (13") SPACE BETWEEN PIPES. MINIMUM 25mm (1") SPACE BETWEEN PIPE AND PERIMETER OF THROUGH OPENING.

C) CABLES, TYPE TC 12 AWG/HHLI, 600V, ROLLABLY SUPPORTED ABOVE THROUGH–OPENING. MAXIMUM FOUR CABLES PER GROUP, MINIMUM 13mm (1/2") SPACE REQUIRED BETWEEN INDIVIDUAL CABLES. MINIMUM 150mm (6") SPACE REQUIRED BETWEEN CABLES AND PIPE OR OTHER CABLE GROUPS.

PIPE OR CABLE TYPE	FT AND FTH RATINGS, H
PIPE TYPE 2A)(INSULATED)	1–1/2
PIPE TYPE 2B)	0
PIPE TYPE 2C	1
NO PENETRATIONS	2

3. PIPE INSULATION –

PIPE, TYPE 2A, TO BE WRAPPED WITH MINIMUM 25mm (1") THICK, ULC LABELLED PIPE INSULATION (GUIDE NO. 40 U8.15.13), TO WITHIN 50mm (2") OF FLOOR, BOTH ABOVE AND BELOW FLOOR. LENGTH OF PIPE THROUGH OPENING TO BE WRAPPED WITH TYPE "P1" FIRESTOP COMPONENT (ITEM 4A).

4. FIRESTOP SYSTEM COMPONENTS–(GUIDE NO. 40U19.13)

A) "TYPE P1" PIPE INSULATION, 25mm (1") THICK, APPLIED TO PIPE WHERE IT PENETRATES OPENING. INSULATION TO EXTEND 50mm (2") ABOVE AND BELOW FLOOR SURFACES. AT JOINTS BETWEEN PIPE INSULATING, ITEMS 4A AND 3, MATERIALS TO BE BUTTED FIRMLY AND WRAPPED WITH JOINT TAPE.

B) "TYPE MM" INSULATION INSTALLED TO A MINIMUM DEPTH OF 95mm (3-1/2"), LEAVING 13mm (1/2") DEEP SPACE BETWEEN TOP OF INSULATION AND TOP SURFACE OF FLOOR. UNCOMPRESSED 100% WIDTH OF MATERIAL TO BE 50± 10% WIDER THAN WIDTH OF OPENING TO BE FILLED (I.E. 270mm (11") WIDE FOR 180mm (7") WIDE OPENING), LENGTH OF INDIVIDUAL PIECES TO MATCH LENGTH OF OPENING SO AS TO AVOID END JOINTS AND BUTTED TIGHTLY AGAINST PENETRATING ITEMS. REMAINING VOIDS AND SPACES BETWEEN CABLES TO BE FIRMLY PACKED BY HAND (50± 10% COMPRESSION) WITH INSULATION.

C) TYPE "305 SL" SEALANT APPLIED OVER INSULATION (ITEM 4B) ON BOTH SIDES OF OPENING, TO MINIMUM DEPTHS OF 10mm (1/2") AND FLUSH WITH TOP OF FLOOR.

OR

TYPE"344 GC" CAULK TO BE APPLIED OVER INSULATION (ITEM 4B) ON BOTH SIDES OF OPENING, TO MINIMUM DEPTHS OF 13mm (1/2").

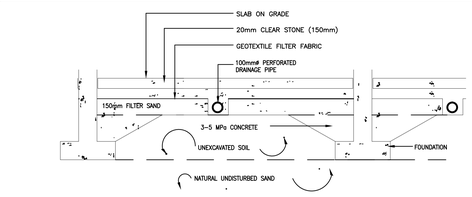
INSTANT FIRESTOP INC.

LISTED BY UNDERWRITERS' LABORATORIES OF CANADA FOR USE AS A COMPONENT WITHIN THE APPROPRIATE DESIGN

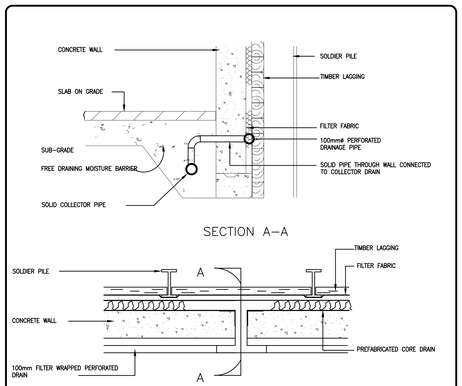
FIRE STOP DETAILS

NOTES:

- ALL FLOOR DRAINS SHALL BE TRAPPED, PRIMED AND VENTED IN ACCORDANCE WITH PART #7 OF O.B.C.
- CLEANOUTS SHALL BE INSTALLED AT INTERVALS NOT EXCEEDING 15M ON 4"ø DRAINAGE PIPE AND THE BASE OF ALL SOIL/WASTE STACKS.
- ALL PLUMBING FIXTURES SHALL BE VENTED IN ACCORDANCE WITH PART #7 OF O.B.C.
- FIN. FLOOR, FD'S & CB'S ELEVATION TO LATEST ARCHITECTURAL ELEVATIONS
- PROVIDE CLEANOUT AT THE BASE OF EACH RAIN WATER LEADER
- ALL HORIZONTAL GAS LINES AND METERS SHALL BE PLACED BELOW THE INSULATED CEILING PLENUM IN THE GARAGE. NO ANY GAS FITTINGS AND ELBOWS WILL BE ALLOWED FOR THE VERTICAL PENETRATION THROUGH THE CEILING PLENUM.
- CONTRACTOR SHALL COORDINATE WITH ENBRIDGE FOR THE METER LOCATIONS PRIOR TO ANY GAS PIPING INSTALLATION.



RECOMMENDED SUB-FLOOR DRAINS AND BACKFILL AROUND FOOTING ON SAND

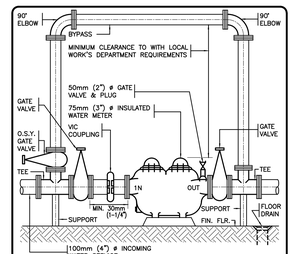


NOTES:

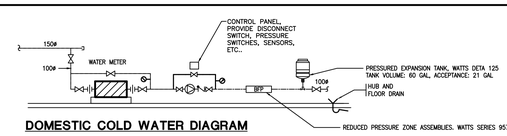
1) THE PREFABRICATED DRAINAGE SYSTEM (TREMDRAIN ® TOTAL DRAIN) SHOULD CONTINUE FROM TOP OF THE FOOTINGS TO APPROX. 1.2m BELOW THE OUTSIDE GRADE. ALL JOINTS MUST BE TAPED AND ALL OPENINGS, INCLUDING THE EXPOSED END ABOVE THE FOUNDATION, MUST BE GROUTED TO PREVENT INTRUSION OF CONCRETE INTO THE CORE.

2) THE LAGGING MUST PERMIT DRAINAGE. FILTER FABRIC OR STRAW SHOULD BE USED TO PREVENT LOSS OF FINES FROM BEHIND THE LAGGING.

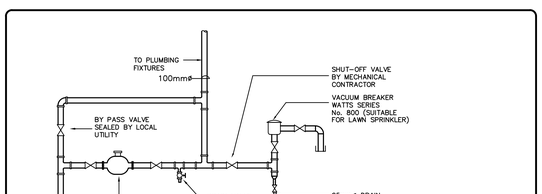
RECOMMENDED PREFABRICATED DRAINAGE SYSTEM ADJACENT TO SHORED EXCAVATION



DETAIL OF WATER METER



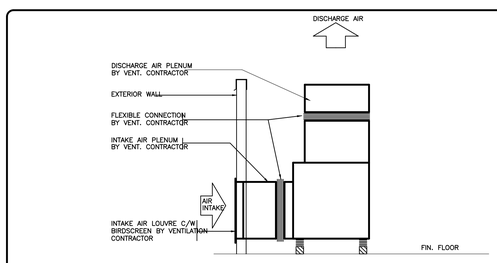
DOMESTIC COLD WATER DIAGRAM



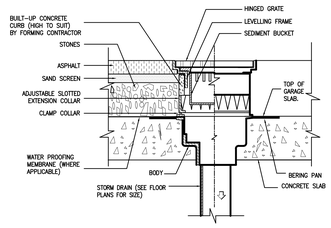
NOTE MECHANICAL CONTACTOR SHALL MAKE ALLOWANCE IN PRICE TO RUN 1000FT OF 40mm ELECTRICALLY TRACED AND INSULATED COLD WATER LINE FOR IRRIGATION SYSTEM AS PER IRRIGATION DWGS C/W 10 SHUT OFF/BLOW OFF VALVES

DOMESTIC WATER METER SCHEMATIC

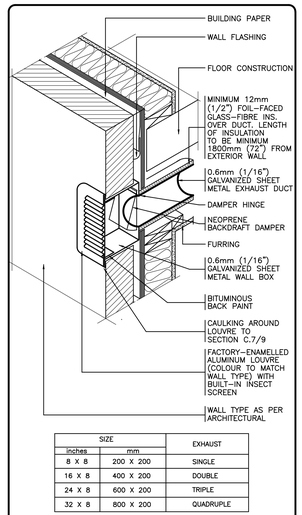
N.T.S.



COOLING TOWER SECTION



COMBINATION PAVED AREA AND SLAB DRAIN (PAD/SD) ABOVE PARKING GARAGE



SIZE		EXHAUST
inches	mm	
8 X 8	200 X 200	SINGLE
16 X 8	400 X 200	DOUBLE
24 X 8	600 X 200	TRIPLE
32 X 8	800 X 200	QUADRUPLE

EXHAUST DISCHARGE WALL BOX

NO.	BY	DESCRIPTION	DATE
04	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
03	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
02	LB	ISSUED FOR PERMIT	SEP. 28, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

REVISIONS

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This drawing is not to be scaled, all symbols are graphic representations only.

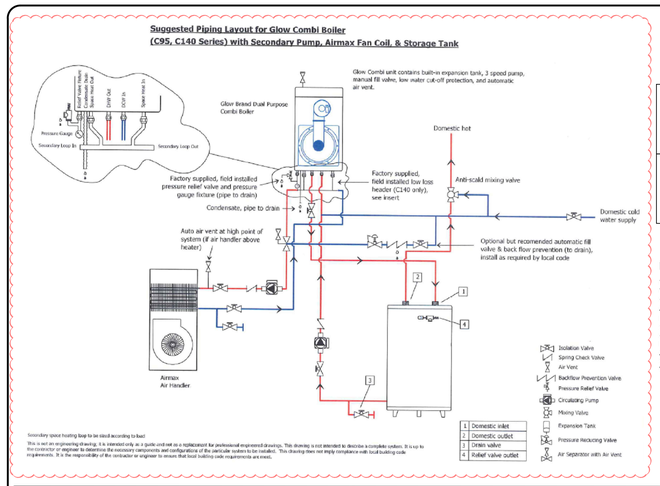
LICENCE PROFESSIONAL ENGINEER
Y. HOU
100117097
PROVINCE OF ONTARIO

UNITED ENGINEERING INC.
Mechanical Electrical Consulting Engineers
3645 Keele Street, Suite 105,
Toronto, Ontario, M3J 1M6
Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE
DETAILS MECHANICAL

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	N.T.S.
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-50
		OF -



AIRMAX TECHNOLOGIES INC. TO PROVIDE TRAINING, SPECIFICATION AND DETAILS FOR MECHANICAL CONTRACTOR FOR PROPER INSTALLATION, POSITION PLACEMENT AND ADJUST AIR SUPPLY OUTLETS

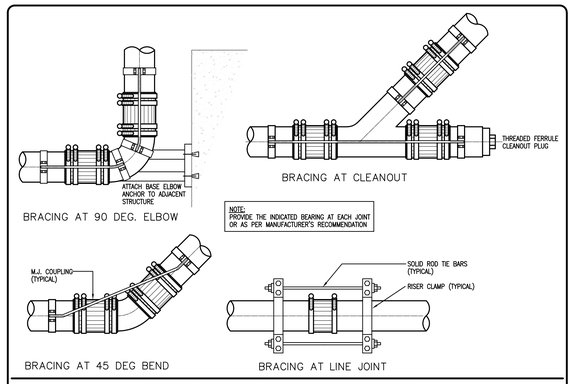
CONTRACTOR TO COORDINATE WITH AIRMAX TECHNOLOGY INC. FOR ALL ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION OF AIR MAX HEATING/COOLING AND HOT WATER SYSTEM

NOTES:

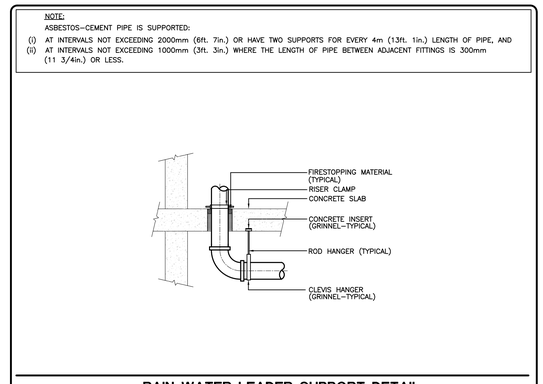
WHEN BRAZING ALWAYS WRAP VALVES, DRAINS ETC WITH A WET RAG TO PREVENT DAMAGE
CHECK SYSTEM DESIGN FOR REQUIREMENT FOR ADDITIONAL EXPANSION TANK ON CLOSED LOOP SYSTEM
BOILER DRAIN INSTALLED ON PRIMARY LOOP SHOULD BE BELOW DPW ISOLATION VALVE TO ALLOW CLOSED LOOP SYSTEM TO BE FILLED WITH DPW ISOLATED FROM THE CLOSED LOOP TO PROTECT UNIT
A DRAIN CAN ALSO BE INSTALLED ON RETURN PIPING ABOVE SHUT-OFF VALVE TO DRAIN THE UNIT OR PRESSURE RELIEF VALVE ON THE UNIT CAN BE USED PROVIDE A DRAIN

TOWN HOUSES DOMESTIC + SPACE HEATING SCHEMATIC (TYPICAL)

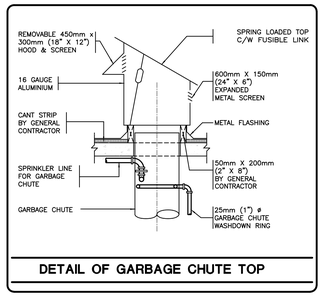
N.T.S.



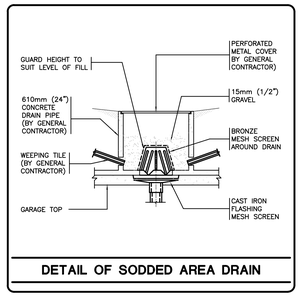
DETAIL OF RWL PIPE JOINT BRACING



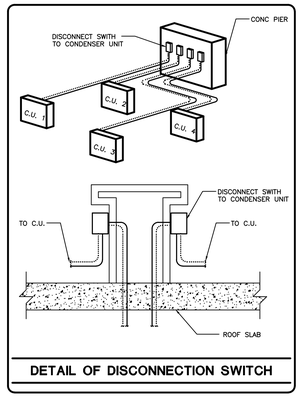
RAIN WATER LEADER SUPPORT DETAIL



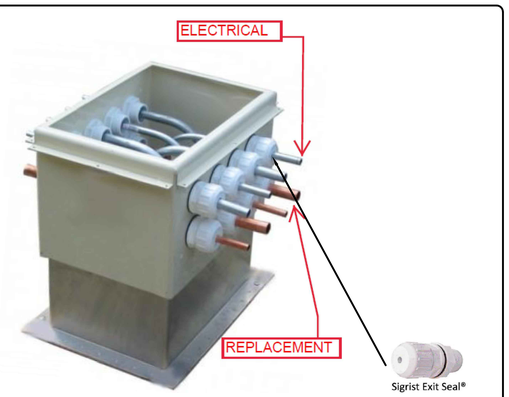
DETAIL OF GARBAGE CHUTE TOP



DETAIL OF SODDED AREA DRAIN

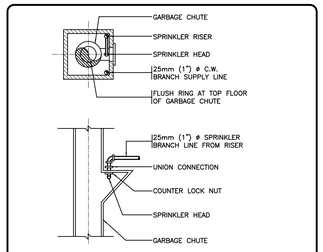


DETAIL OF DISCONNECTION SWITCH

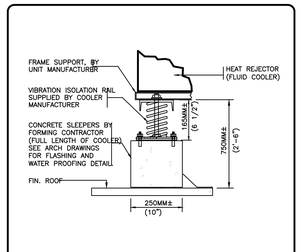


SIGRIST PIPE CHASE HOUSING

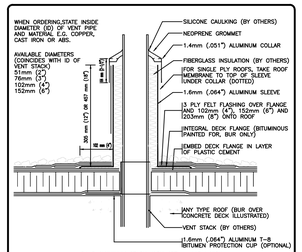
E:\2017\17-008 71-75 Curlew Dr\Mech Room Air Max\Vent\Venting.jpg



DET. OF GARBAGE SPRINKLER HEAD CONN.

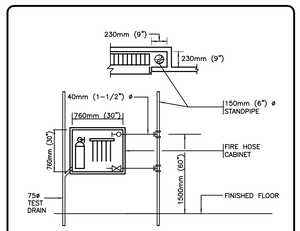


TYPICAL COOLING TOWER SUPPORT

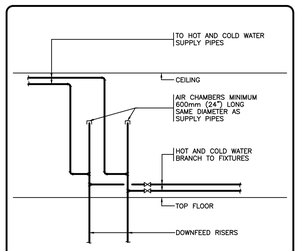


PROTECTED MEMBRANE ROOF APPLICATION

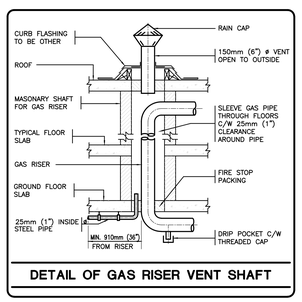
NOTE: FOR SINGLE PLY ROOFS, ADD SUFFIX (EPDM) OR (PVC) TO MODEL NUMBERS



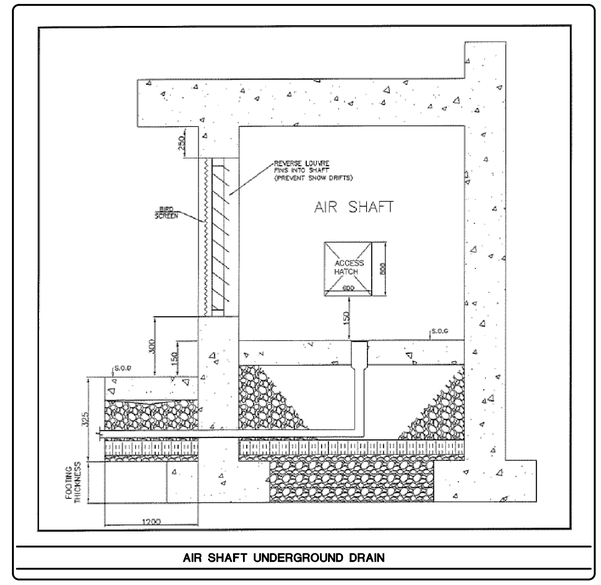
CONN. OF F.H.C. TO FIRE STANDPIPE



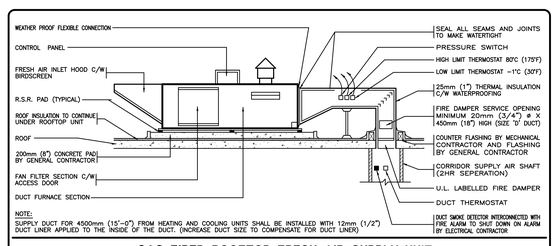
DOMESTIC WATER DOWNFEED AIR CHAMBERS



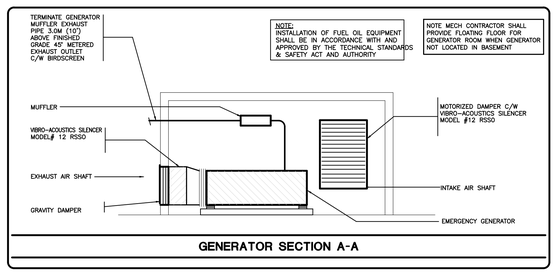
DETAIL OF GAS RISER VENT SHAFT



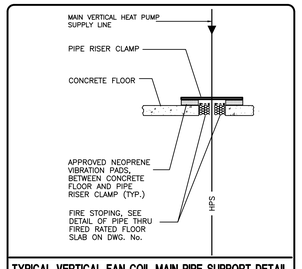
AIR SHAFT UNDERGROUND DRAIN



GAS FIRED ROOFTOP FRESH AIR SUPPLY UNIT



GENERATOR SECTION A-A



TYPICAL VERTICAL FAN COIL MAIN PIPE SUPPORT DETAIL

NO.	BY	DESCRIPTION	DATE
05	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
04	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #08	DEC. 13, 2019
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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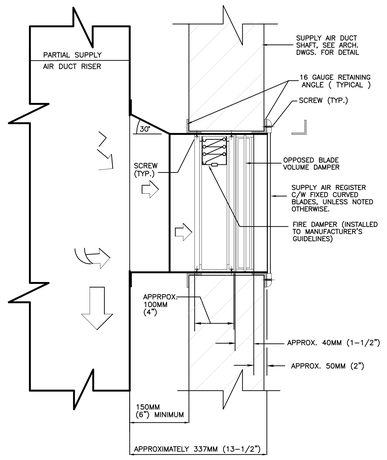
LICENCED PROFESSIONAL ENGINEER
Y. HOU
100117097
PROVINCE OF ONTARIO

UNITED ENGINEERING INC.
Mechanical Electrical Consulting Engineers
3645 Keele Street, Suite 105,
Toronto, Ontario, M3J 1M6
Tel: (416) 398 1999, Fax: (416) 398 1933

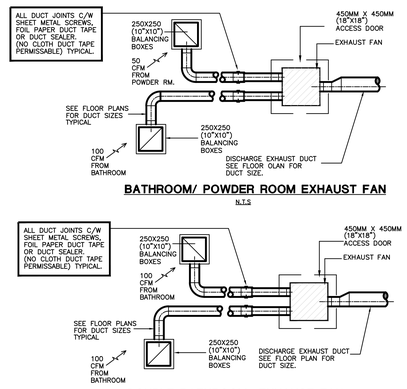
TITLE
DETAILS MECHANICAL

PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	N.T.S.
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-51
		OF -



TYPICAL DETAIL OF CORRIDOR SUPPLY AIR DUCT SHAFT

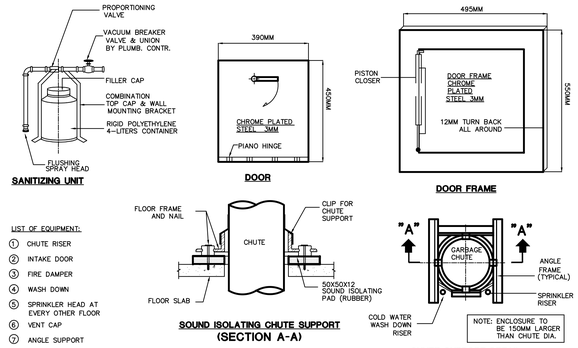


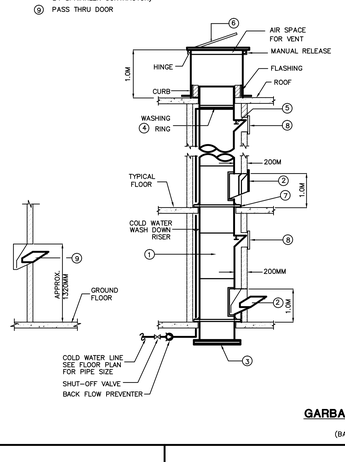
BATHROOM/ POWDER ROOM EXHAUST FAN

N.T.S

DOUBLE BATHROOM EXHAUST FAN

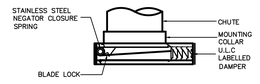
N.T.S



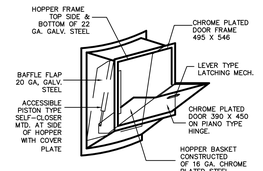


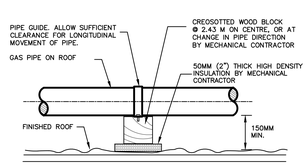
GARBAGE CHUTE DETAIL

(BASED ON YORK)
N.T.S.



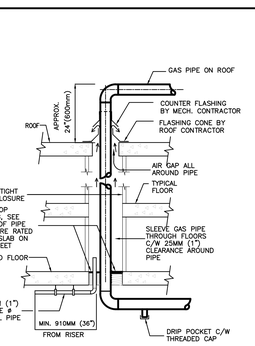
FIRE DAMPER AT BOTTOM OF CHUTE





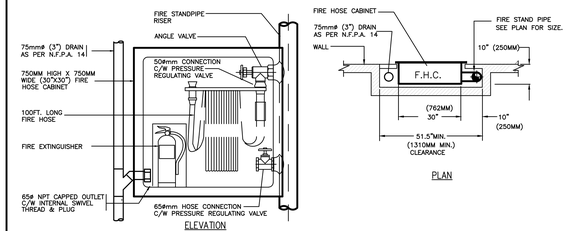
DETAIL OF GAS LINE ON ROOF

N.T.S

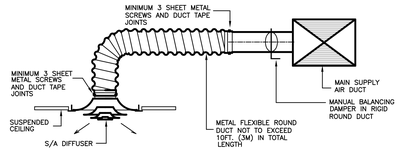


DETAIL OF GAS RISER VENT SHAFT

N.T.S.

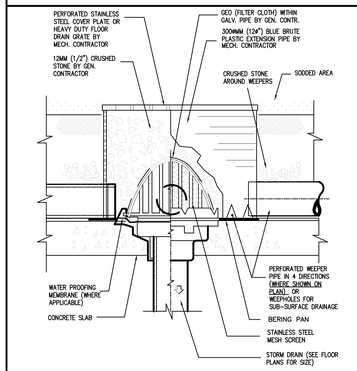


FIRE HOSE CABINET DETAIL (SIDE CONNECTION)



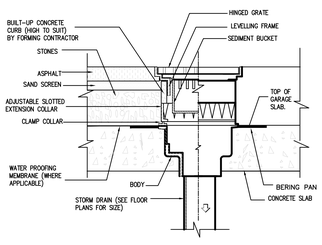
TYPICAL DETAIL OF FLEXIBLE/RIGID DUCT CONNECTION TO DIFFUSER

N.T.S



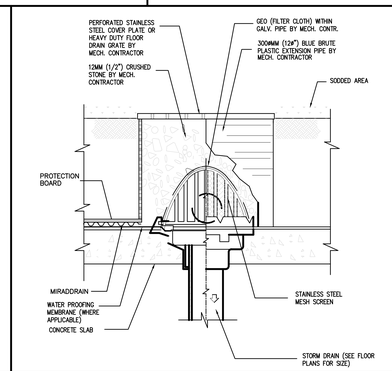
DETAIL OF COMBINATION SODDED AREA /SLAB DRAIN (SAD/SD)

N.T.S.



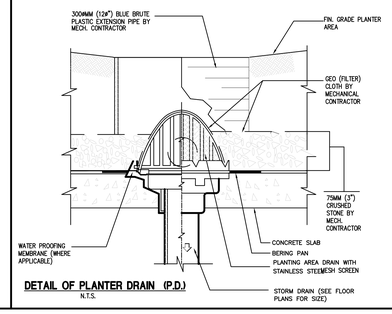
DETAIL OF COMBINATION PAVED AREA AND SLAB DRAIN (PAD/SD) ABOVE PARKING GARAGE

N.T.S.



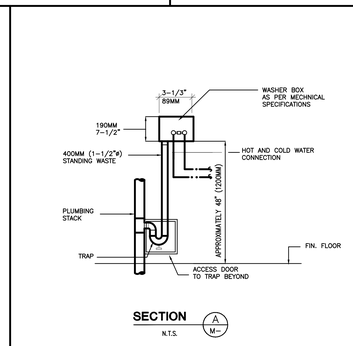
DETAIL OF SODDED AREA DRAIN (SAD.)

N.T.S.



DETAIL OF PLANTER DRAIN (P.D.)

N.T.S.



TYPICAL DETAIL OF SANITARY AND WATER CONNECTION FOR WASHING MACHINE

N.T.S.

NO.	BY	DESCRIPTION	DATE
05	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION	MAR. 26, 2021
04	LB	ISSUED FOR PERMIT BUILDING A,B,C,D	MAR. 03, 2021
03	LB	ISSUED FOR PERMIT	SEP. 28, 2020
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

REVISIONS

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United Engineering Inc. is not responsible for the accuracy of Architectural, structural, interior design, etc. on this drawing.
Refer to the appropriate trade drawings before proceeding with any work. Installation must conform to all applicable codes and requirements of the authorities having jurisdiction.
This drawing is not to be scaled, all symbols are graphic representations only.

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TITLE
DETAILS MECHANICAL

PROJECT

BRAMPTON STACKED FORESTSIDE ESTATES

ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
MC	LM	N.T.S.
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-52
		OF -