UNITED ENGINEERING INC
Mechanical and Electrical Consulting Engineers

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Toronto, ON, M3J 1M6
Email:info@u-eng.ca
T:(416)398-1999
F:(416)398-1933

SITE SUPPLEMENTAL INSTRUCTION

PROJECT: Forestside Estates
Attmar & Palleschi Drive
Brampton, ON

PROJECT NO.: 18-017

CONTRACT: Mechanical

DATE: October 26, 2021

SITE SI NO. M-5

THIS SITE SUPPLEMENTAL INSTRUCTION IS NOT TO BE CONSTRUED AS A CHANGE IN THE CONTRACT PRICE, BUT IS ISSUED FOR CLARIFICATION ONLY. IF A CHANGE IN CONTRACT PRICE IS PERCEIVED, PROVIDE AN ITEMIZED BREAKDOWN OF ANY EXTRAS OR CREDITS WITHIN SEVEN (7) WORKING DAYS.

PURPOSE: To revise mechanical layout to suit Arch change and reply city HVAC & Plumbing comments.

1.0 Reference Drawing M-3, M-3A, M-3B (Plumbing P1 - Mechanical) Issued

1.1 Revised: Plumbing stack location to suit Architectural changes.

2.0 Reference Drawing M-7-M-14 (Building D - Mechanical) Issued

2.1 Added: Plumbing stack tags for typical suites.

2.2 Added: Separate HVAC drawing set.

2.3 Revised: Scupper drains to suit Architectural changes.

2.4 Revised: 3rd floor mechanical room to avoid bulkhead below.

3.0 Reference Drawing M-15-M-24 (Building C - Mechanical) Issued

3.1 Added: Plumbing stack tags for typical suites.

3.2 Added: Separate HVAC drawing set.

3.3 Revised: Scupper drains to suit Architectural changes.

4.0 Reference Drawing M-25-M-34 (Building B - Mechanical) Issued

4.1 Added: Plumbing stack tags for typical suites.

4.2 Added: Separate HVAC drawing set.

4.3 Revised: Scupper drains to suit Architectural changes.

4.4 Revised: 3rd floor mechanical room to avoid piping cross over below.

5.0 Reference Drawing M-35-M-44 (Building A - Mechanical) Issued

5.1 Added: Plumbing stack tags for typical suites.

5.2 Added: Separate HVAC drawing set.

5.3 Revised: Scupper drains to suit Architectural changes.

5.4 Revised: 3rd floor mechanical room to avoid piping cross over below.

6.0 Reference Drawing M-45, M-47 (Typical Units - Mechanical) Issued

6.1 Revised: Suites mechanical layout to suit Architectural changes.

7.0 Reference Drawing M-48 (Schedule & Schematic - Mechanical) Issued

7.1 Revised: Typical suites plumbing riser layout.

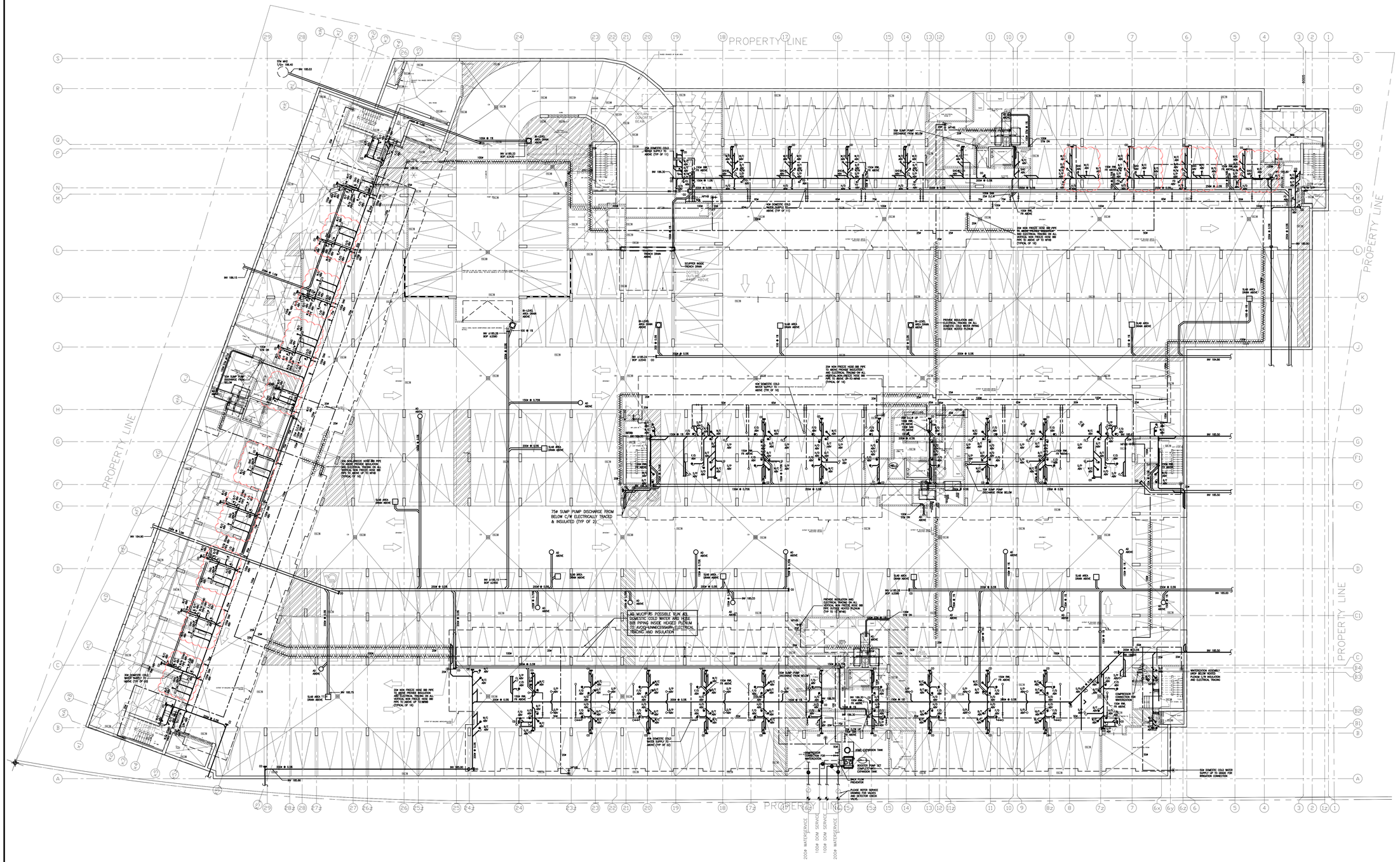
8.0 Reference Drawing M-52 (Details - Mechanical) Issued

8.1 Added: Section cut view of 3rd floor stair fire rate enclosure.

PREPARED BY: _____

Leon Bai
Mechanical Department

ISSUED TO ROYAL PINE HOMES,
Cinzia Caruso, Cinzia@royalpinehomes.com;
Vince Staffieri, vince@royalpinehomes.com;
FOR DISTRIBUTION TO ALL AFFECTED PARTIES.



NO.	BY	DESCRIPTION	DATE
16	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
15	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
14	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
13	LB	ISSUED AS PER SITE INSTRUCTION M-03	JUL. 02, 2021
12	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
11	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
10	LB	ISSUED AS PER SITE INSTRUCTION M-01	APR. 28, 2021
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

REVISIONS

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LICENCED PROFESSIONAL ENGINEER
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3645 Keele Street, Suite 105,
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Tel: (416) 398 1999, Fax: (416) 398 1933

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 -

PROPERTY LINE

STM MH2
T/G= 186.40
INV 185.03

INV 186.15

INV 184.90

INV 185.66

INV 188.30

INV ±185.33
BOP ±2430

INV ±185.28
BOP ±2580

INV ±185.24
BOP ±2540

INV ±185.15
BOP ±2450

INV ±185.28
BOP ±2500

INV 185.75

INV 185.80

INV 186.30

INV 185.33

B-LEVEL AREA DRAIN ABOVE

SLAB AREA DRAIN ABOVE

TRENCH DRAIN ABOVE

SCUPPER INSIDE TRENCH DRAIN

DOTTED OUTLINE OF RAMP ABOVE

ORTURN CONCRETE BEAM

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)

30ø DOMESTIC COLD WATER SUPPLY TO ABOVE (TYP OF 20)

50ø SUMP PUMP DISCHARGE FROM BELOW

50ø SUMP PUMP DISCHARGE FROM BELOW

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

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 VERTICAL NON FREEZE HOSE BIB PIPE OUTSIDE HEATED PLENUM (TYP TO 13 NFHB)

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

150ø RWL FR ABOVE

150ø RWL TR ABOVE

50ø D.C.W UP 150ø RWL FR ABOVE 100ø SAN FR ABOVE

ASME EXPANSION TANK

COMPRESSOR CONNECTION FOR WINTERIZATION

BOOSTER PUMP SET COMPLETE WITH EXPANSION TANK

BACK FLOW PREVENTOR

PLEASE REFER SERVICE DRAWING FOR VALVES AND DETECTOR CHECK VALVE

NFHB

NO.	BY	DESCRIPTION	DATE
13	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
12	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
11	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
10	LB	ISSUED AS PER SITE INSTRUCTION M-03	JUL. 02, 2021
09	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
08	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
07	LB	ISSUED AS PER SITE INSTRUCTION M-01	APR. 28, 2021
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

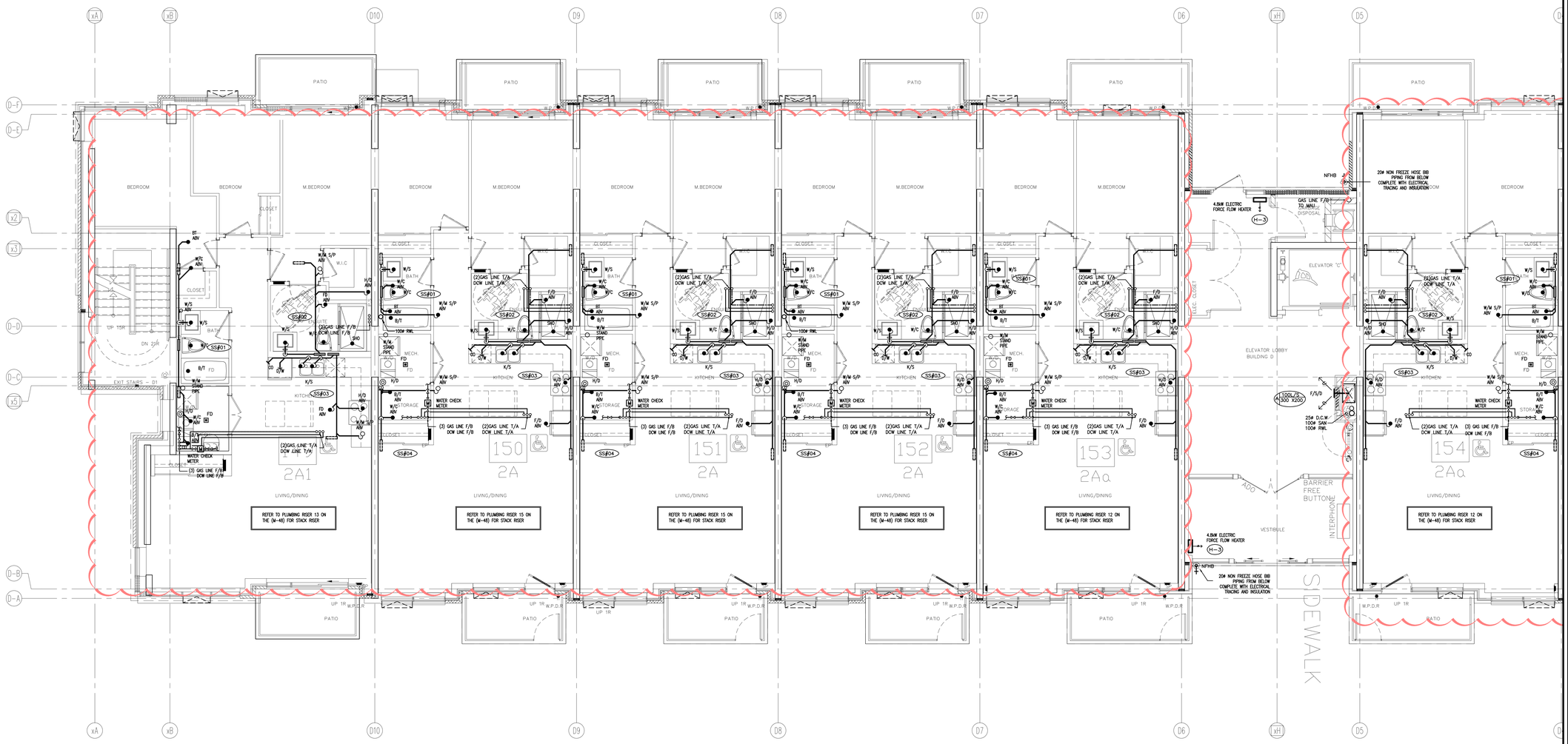
PROJECT
BRAMPTON STACKED FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

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

PROPERTY LINE

PROPERTY LINE

PROPERTY LINE



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11	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
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09	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
08	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
07	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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'
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 -



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03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 27, 2021

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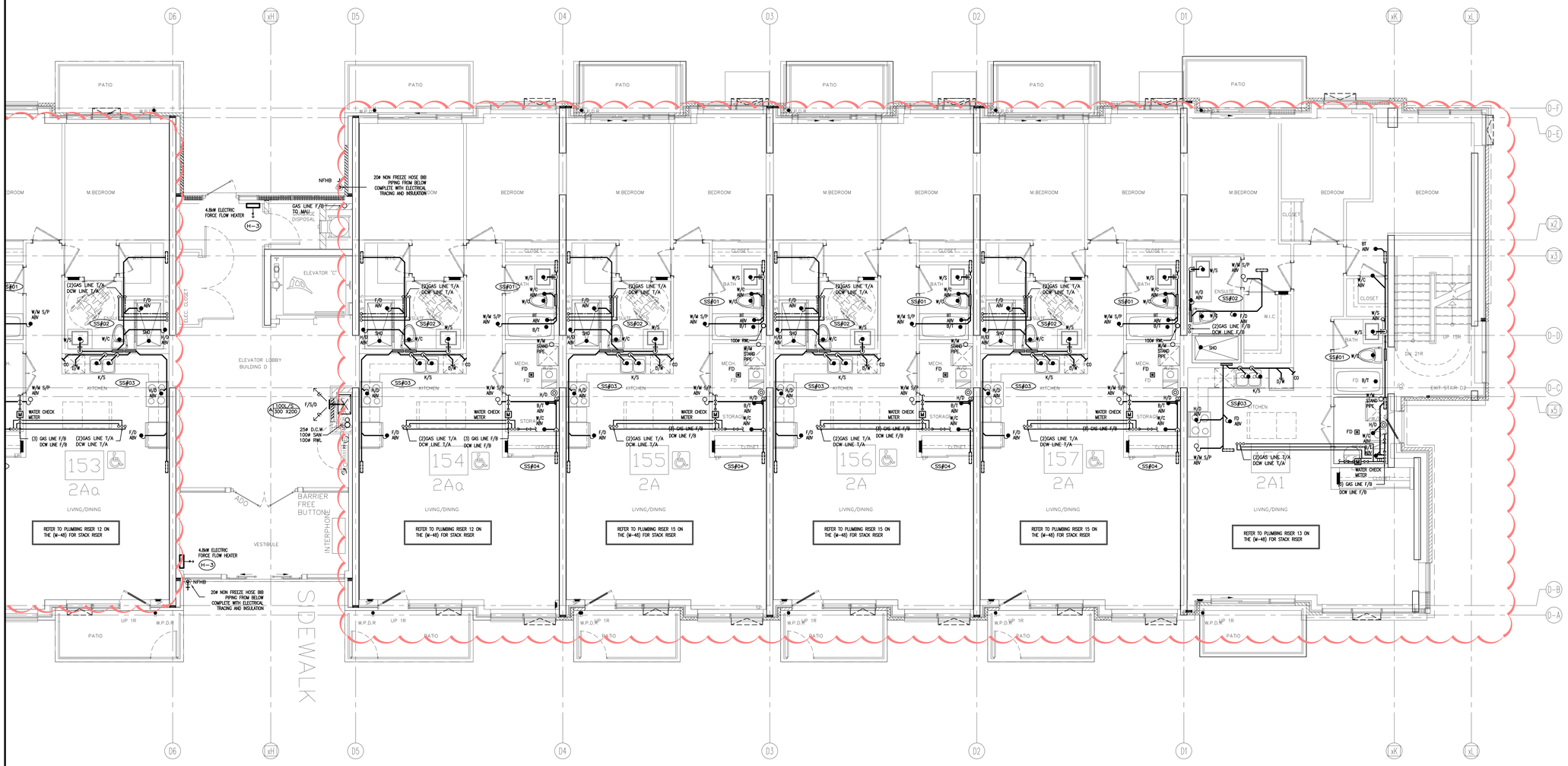
TITLE
BLOCK 'D'
GROUND FLOOR - HVAC 1

PROJECT

BRAMPTON STACKED FORESTSIDE ESTATES

ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
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DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-5A
		OF -



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11	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 14, 2021
10	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
09	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
08	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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 '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 -



NO.	BY	DESCRIPTION	DATE
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 27, 2021

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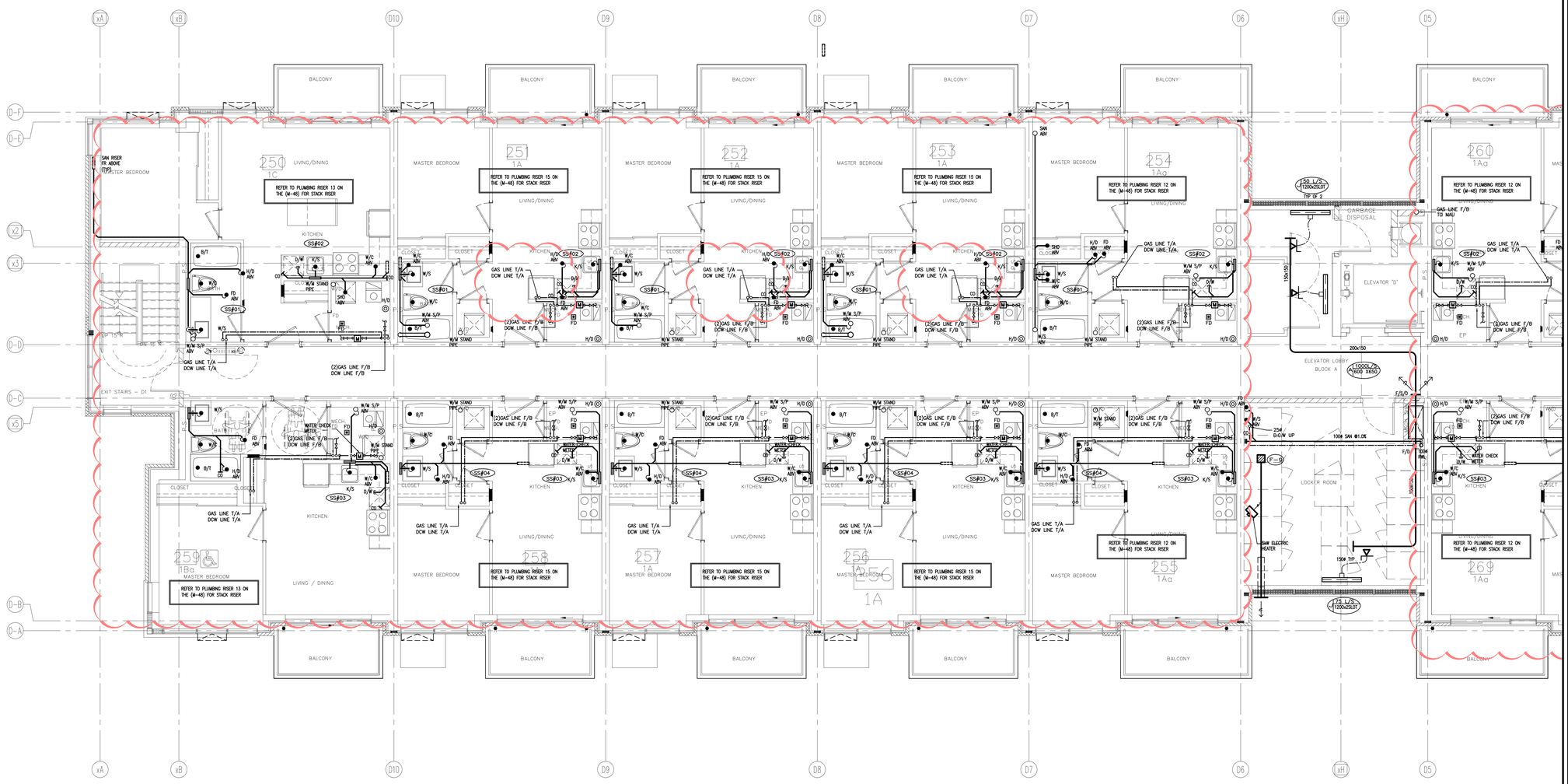
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TITLE
BLOCK 'D'
GROUND FLOOR - HVAC 2

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-6A
		OF -



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12	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
11	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
10	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
09	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
08	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
07	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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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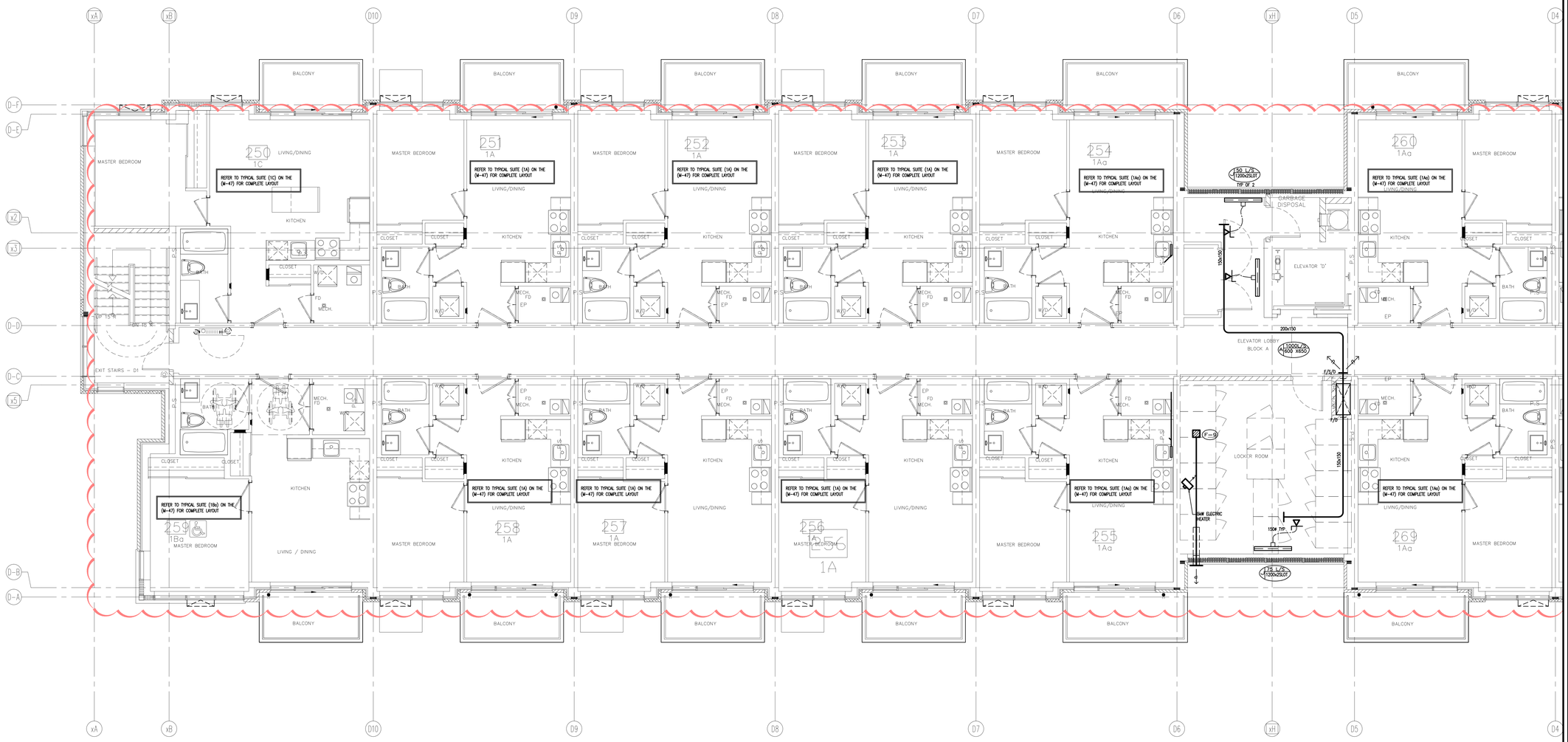
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TITLE
BLOCK 'D'
2ND FLOOR - PLUMBING/SANITARY

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-7
		OF -



NO.	BY	DESCRIPTION	DATE
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
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01	LB	ISSUED FOR CITY PERMIT	SEP. 27, 2021

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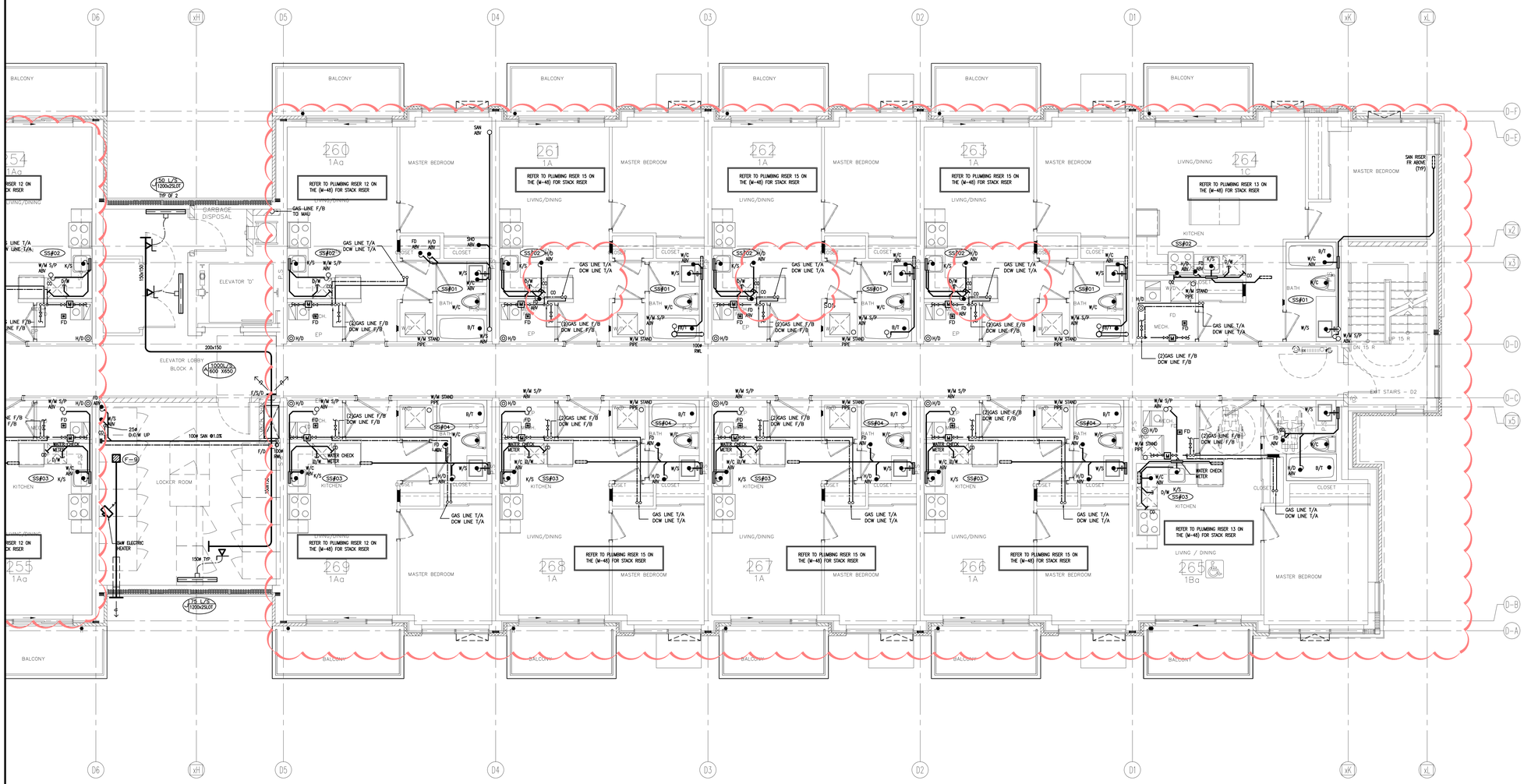
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TITLE
BLOCK 'D'
2ND FLOOR - HVAC 1

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-7A
		OF -



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13	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
12	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
11	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
10	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
09	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION#2	JUN. 15, 2021
08	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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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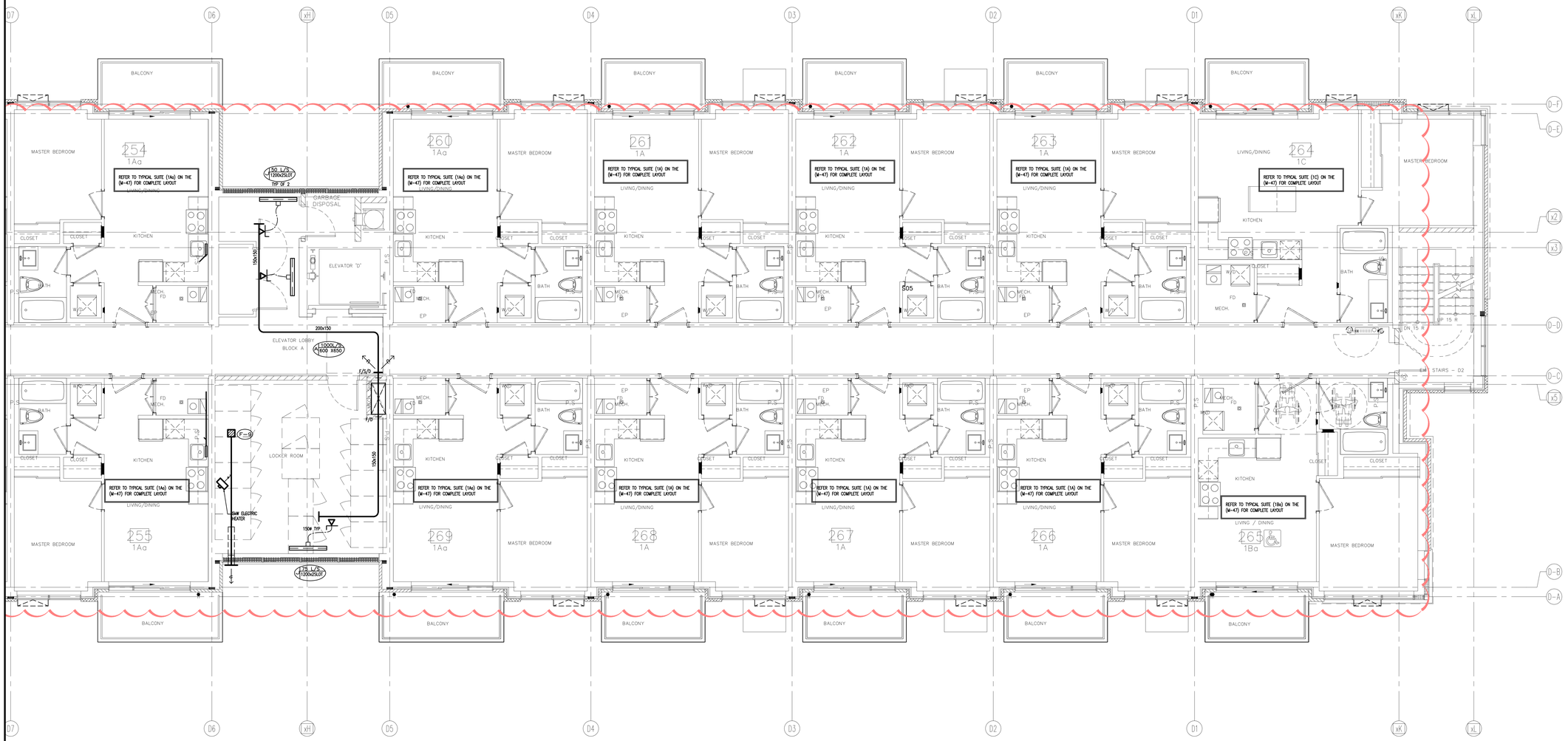
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TITLE
BLOCK 'D'
2ND FLOOR - PLUMBING/SANITARY

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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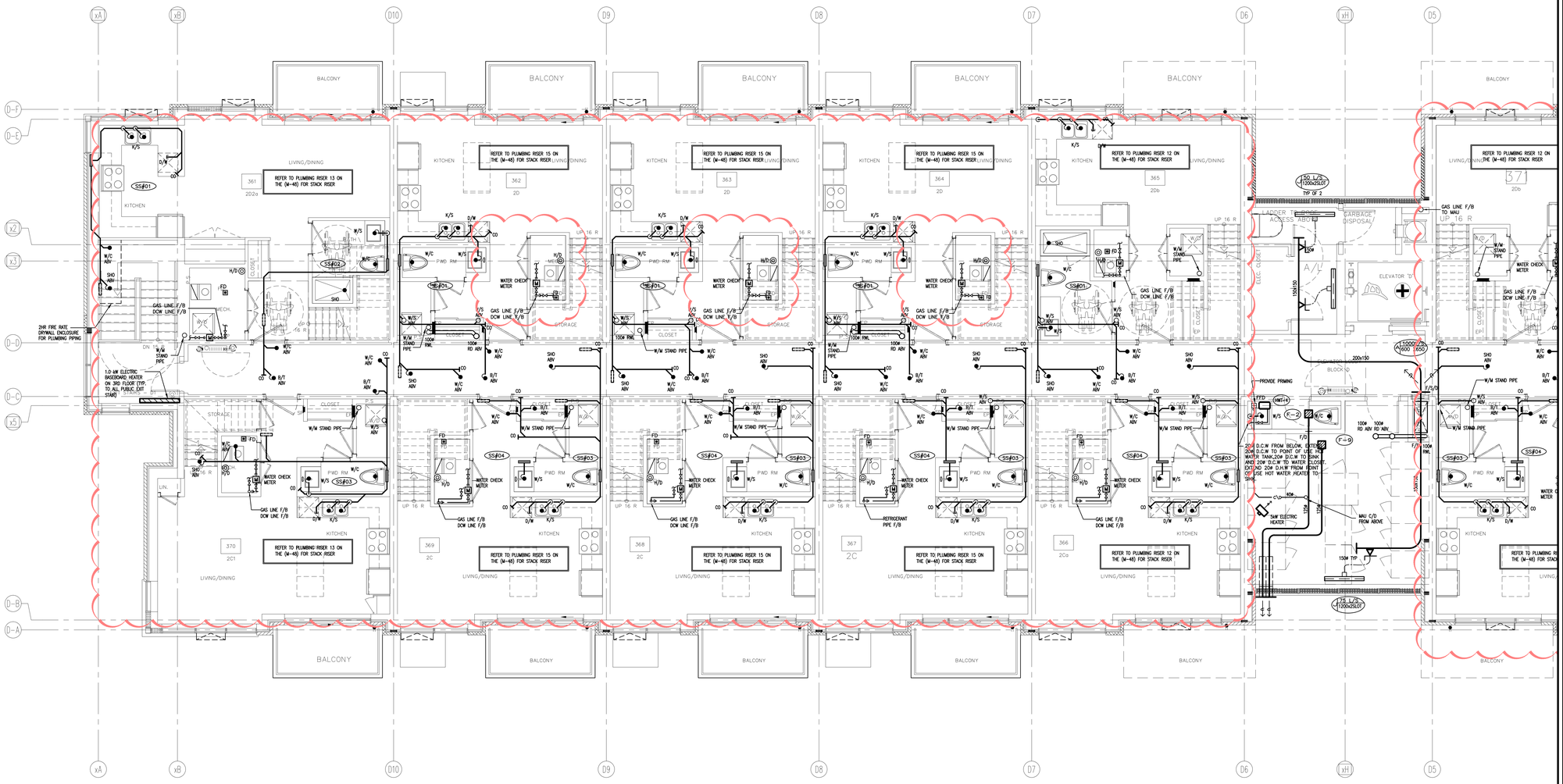
TITLE
BLOCK 'D'
2ND FLOOR - HVAC 2

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-8A
		OF -



NO.	BY	DESCRIPTION	DATE
12	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
11	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
10	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
09	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
08	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION#2	JUN. 15, 2021
07	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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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LICENCE PROFESSIONAL ENGINEER
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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 -



NO.	BY	DESCRIPTION	DATE
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 27, 2021

REVISIONS

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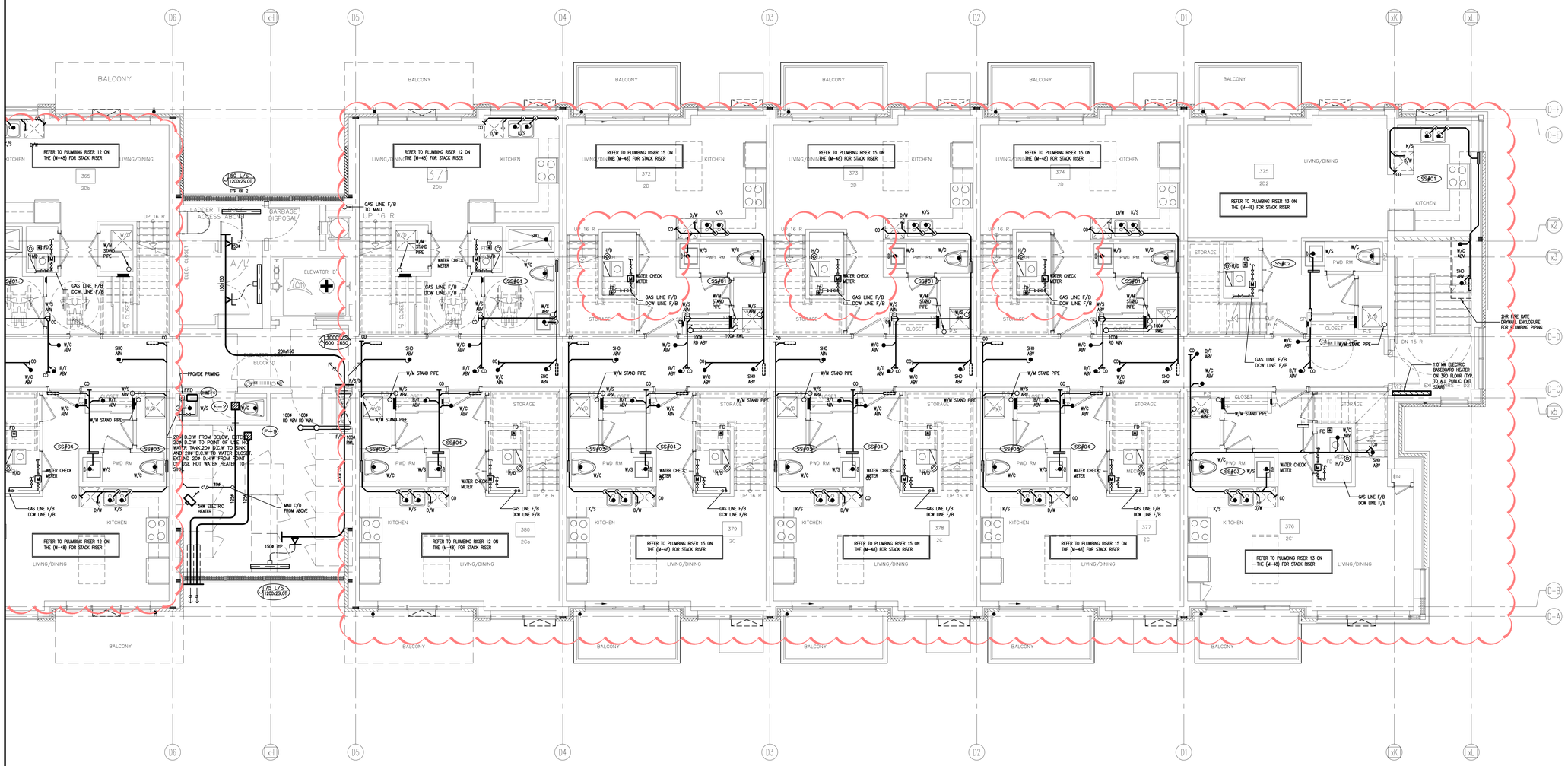
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TITLE
BLOCK 'D'
3RD FLOOR - HVAC 1

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-9A
		OF -



NO.	BY	DESCRIPTION	DATE
13	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
12	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
11	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
10	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
09	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
08	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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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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-10
		OF -



NO.	BY	DESCRIPTION	DATE
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 27, 2021

REVISIONS

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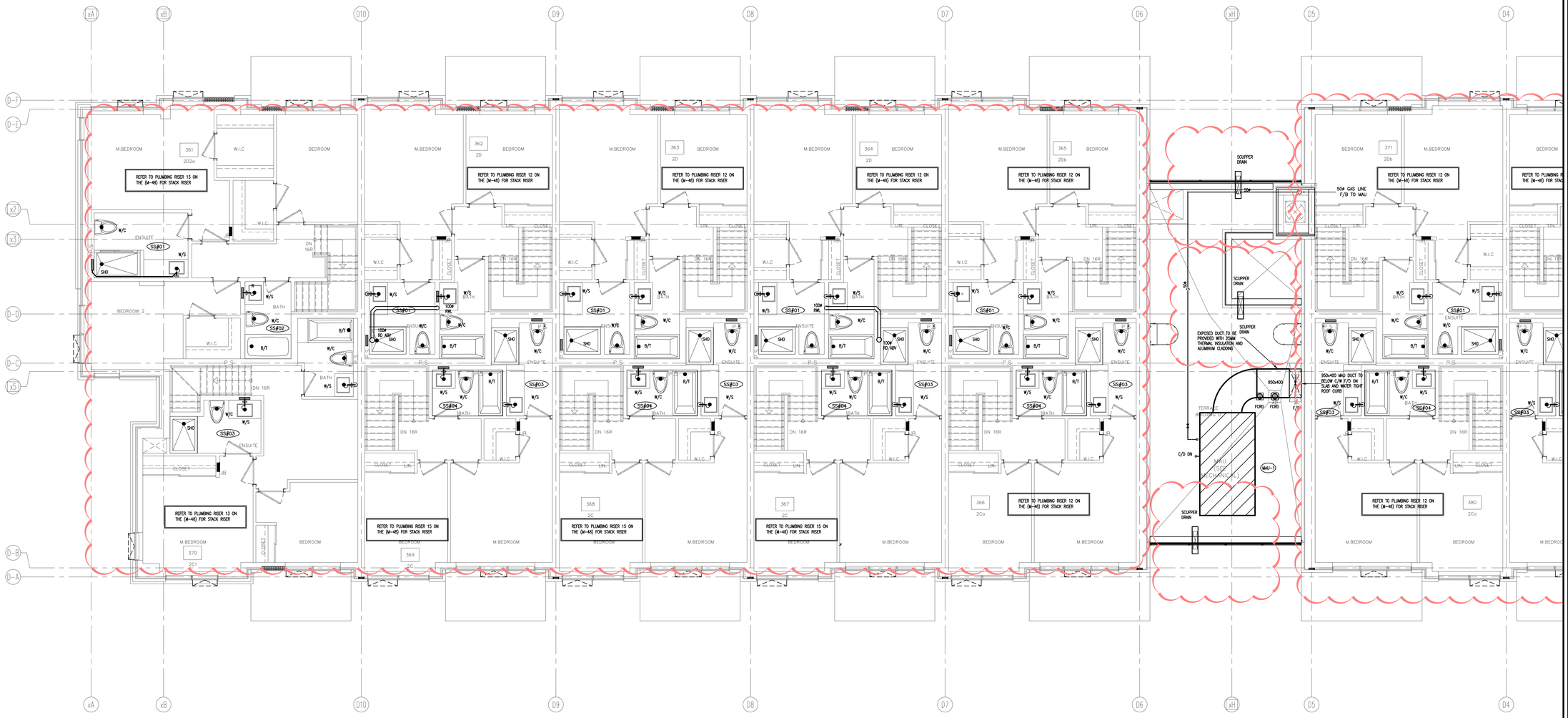
TITLE
BLOCK 'D'
3RD FLOOR - HVAC 2

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-10A
		OF -



04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
13	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
12	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
11	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
10	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
09	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
08	LB	ISSUED AS PER SITE INSTRUCTION M-01	APR. 28, 2021
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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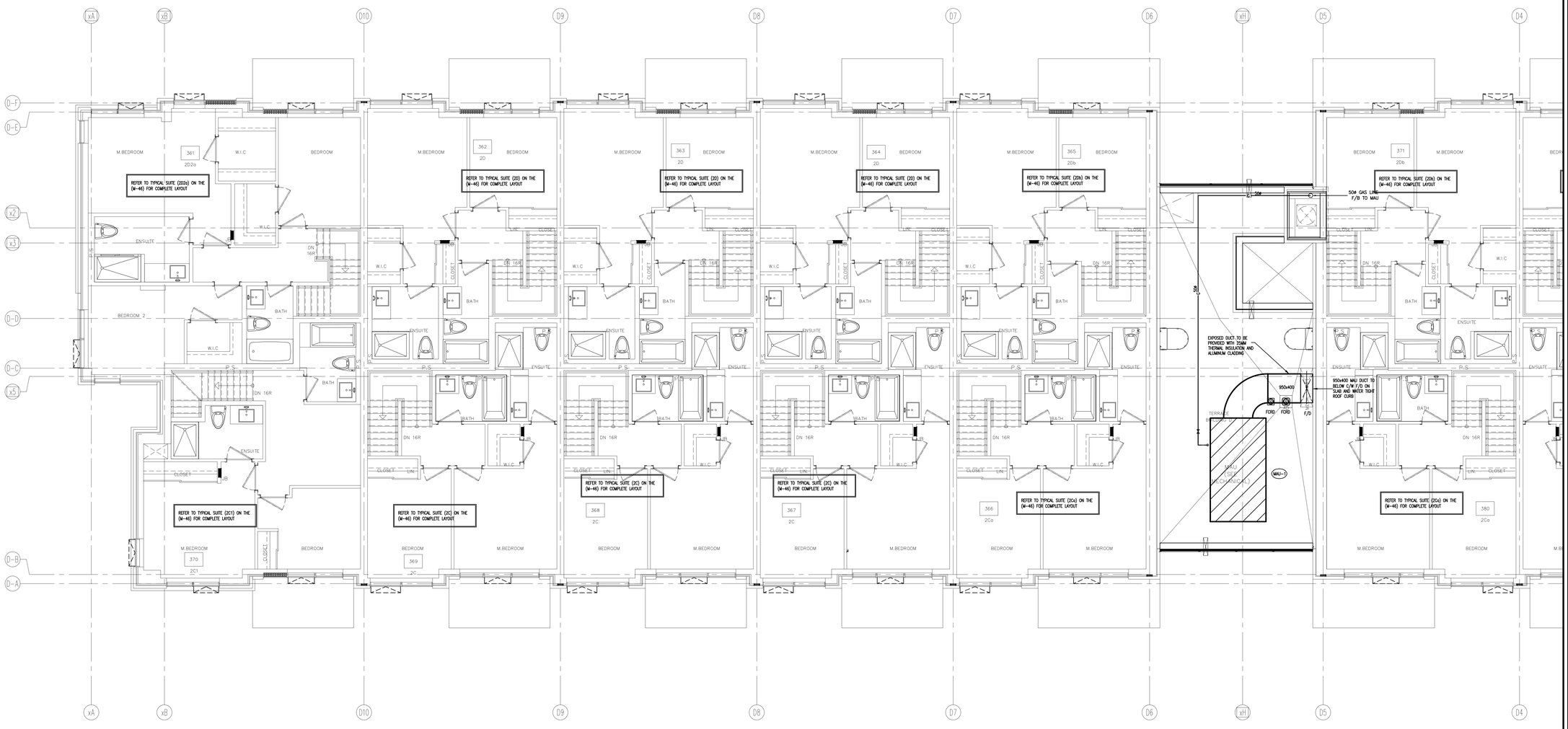
LICENCED PROFESSIONAL ENGINEER
Y. HOU
100117097
PROVINCE OF ONTARIO

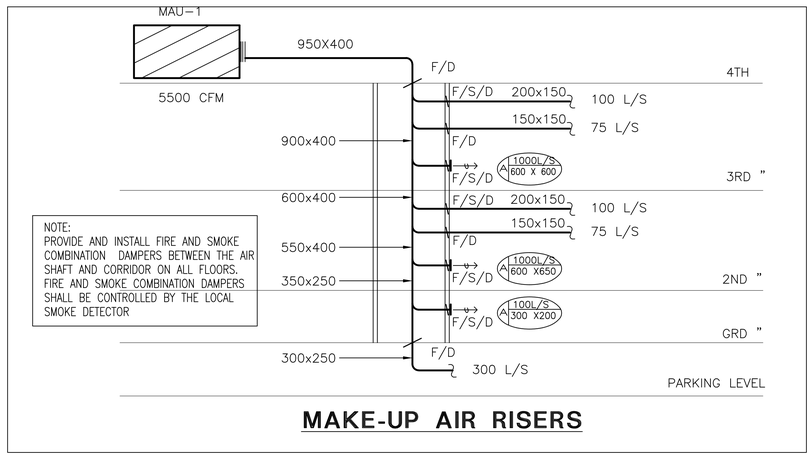
UNITED ENGINEERING INC.
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Toronto, Ontario, M3J 1M6
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TITLE
BLOCK 'D'
4TH FLOOR - PLUMBING/SANITARY

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 -





MAKE-UP AIR RISERS

NO.	BY	DESCRIPTION	DATE
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 27, 2021

REVISIONS

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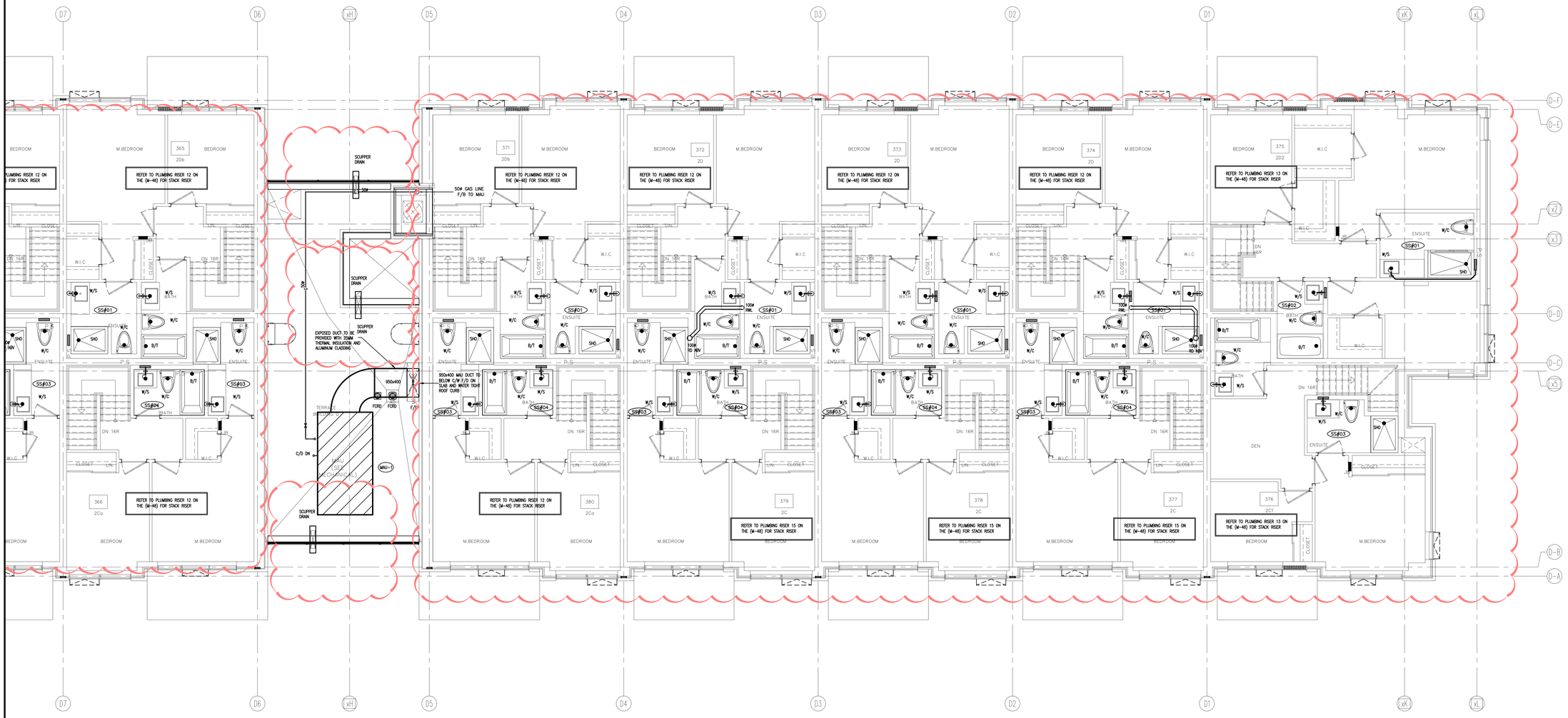
LICENCE PROFESSIONAL ENGINEER Y. HOU 100117087 PROVINCE OF ONTARIO

UNITED ENGINEERING INC.
Mechanical Electrical Consulting Engineers
3645 Keele Street, Suite 105,
Toronto, Ontario, M3J 1M6
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TITLE
BLOCK 'D'
4TH FLOOR - HVAC 1

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-11A
		OF -



NO.	BY	DESCRIPTION	DATE
13	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
12	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
11	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
10	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
09	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
08	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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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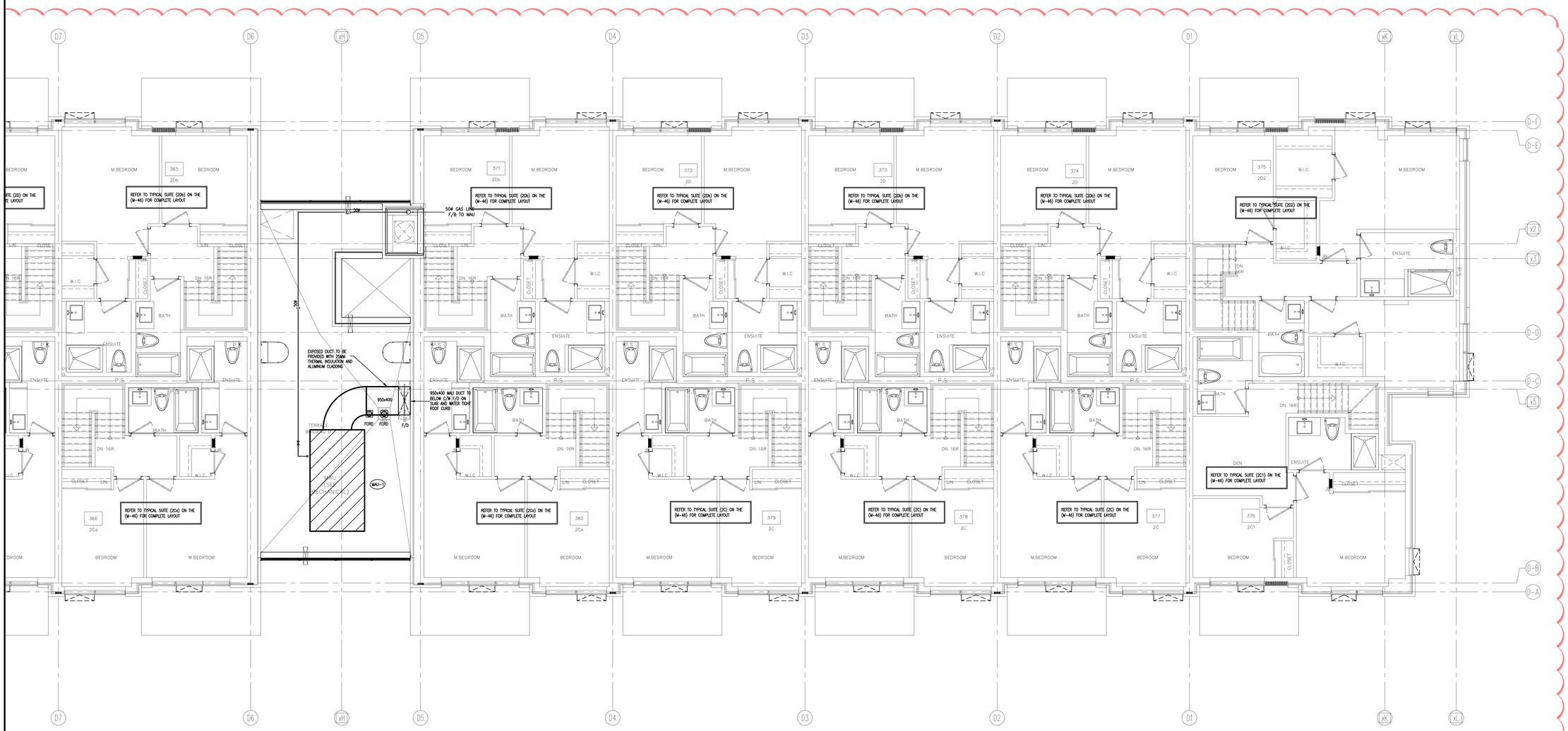
LICENCED PROFESSIONAL ENGINEER
Y. HOU
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TITLE
BLOCK 'D'
3RD FLOOR - PLUMBING/SANITARY

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
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 27, 2021

REVISIONS

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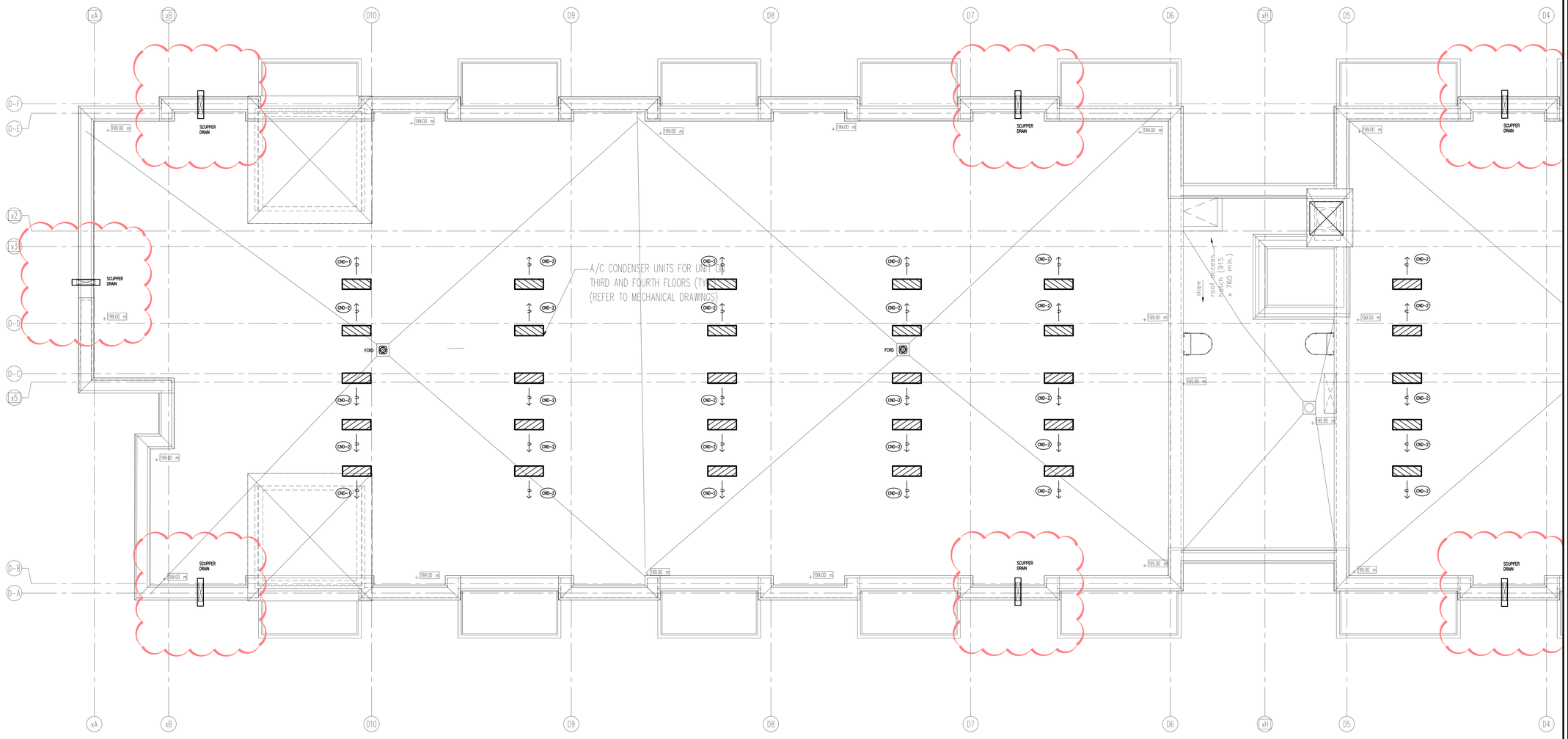
LICENCED PROFESSIONAL ENGINEER
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TITLE
BLOCK 'D'
4TH FLOOR - HVAC 2

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-12A
		OF -



NO.	BY	DESCRIPTION	DATE
12	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
11	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
10	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
09	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
08	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
07	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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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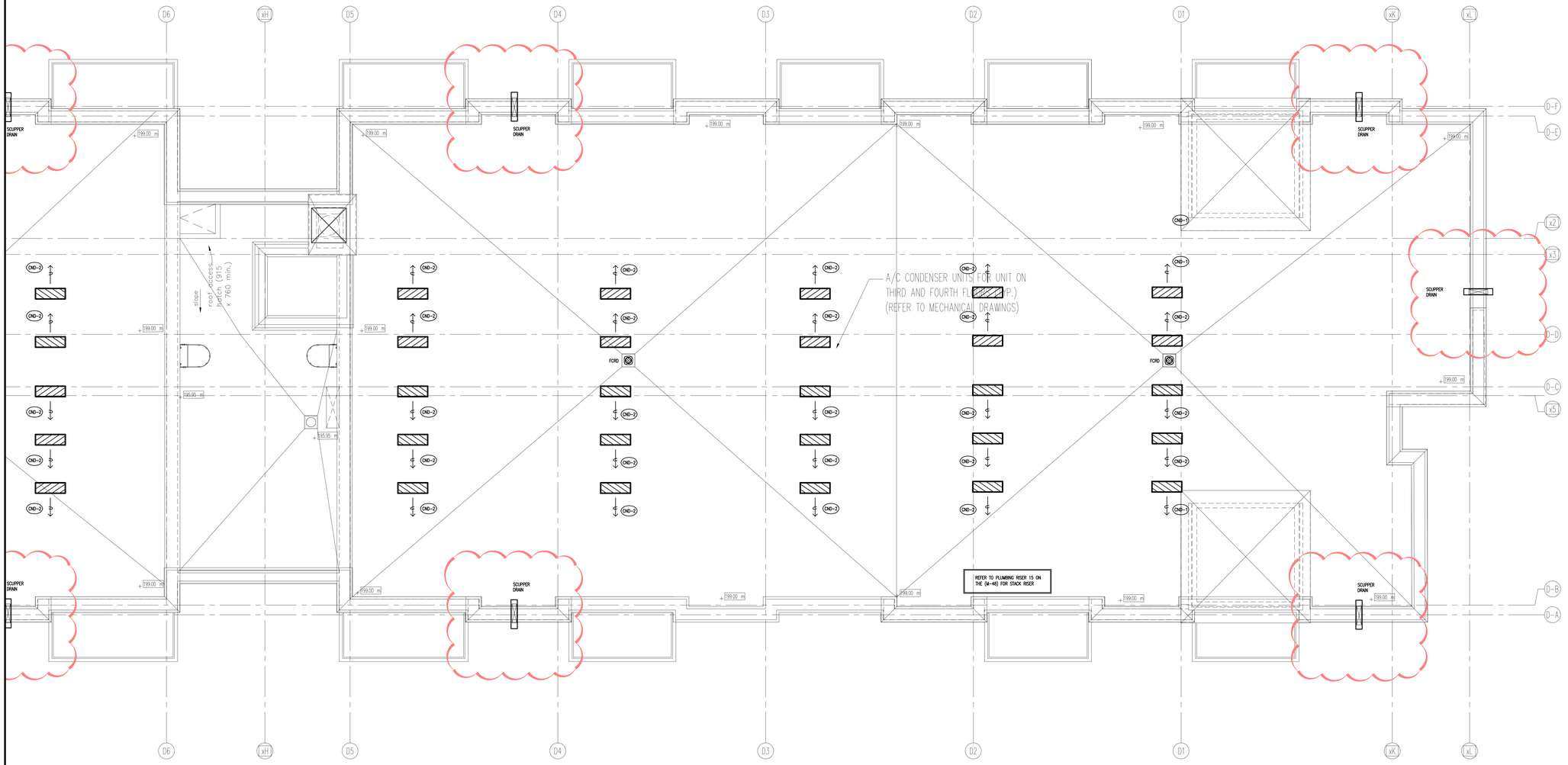
LICENCED PROFESSIONAL ENGINEER
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TITLE
BLOCK 'D'
ROOF - PLUMBING/SANITARY

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
12	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
11	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
10	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
09	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
08	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
07	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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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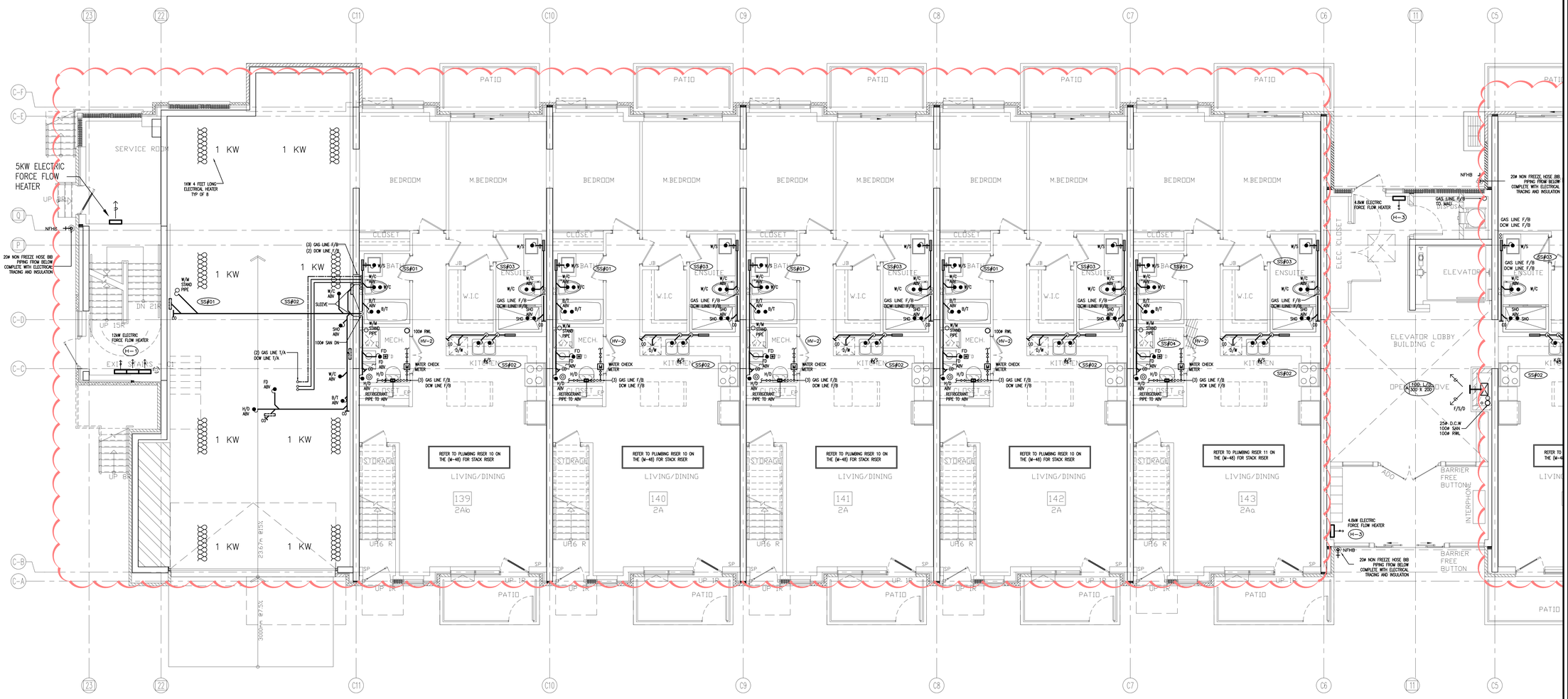
LICENCE PROFESSIONAL ENGINEER
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3645 Keele Street, Suite 105,
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TITLE
BLOCK 'D'
ROOF - PLUMBING/SANITARY

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
12	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
11	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
10	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
09	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
08	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION#2	JUN. 15, 2021
07	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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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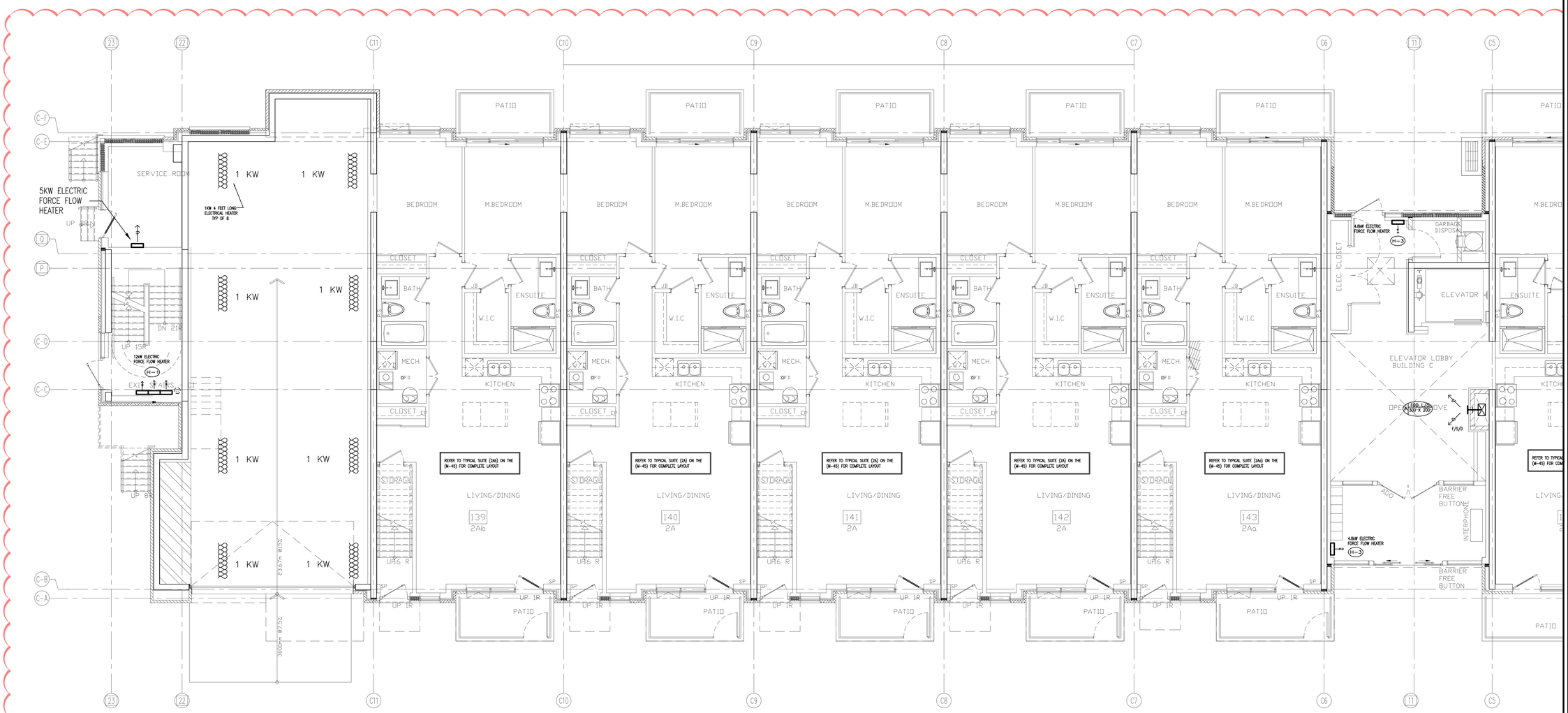
LICENCED PROFESSIONAL ENGINEER
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Toronto, Ontario, M3J 1M6
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TITLE
BLOCK 'C'
GROUND FLOOR - PLUMBING/SANITARY

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
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 24, 2021

REVISIONS

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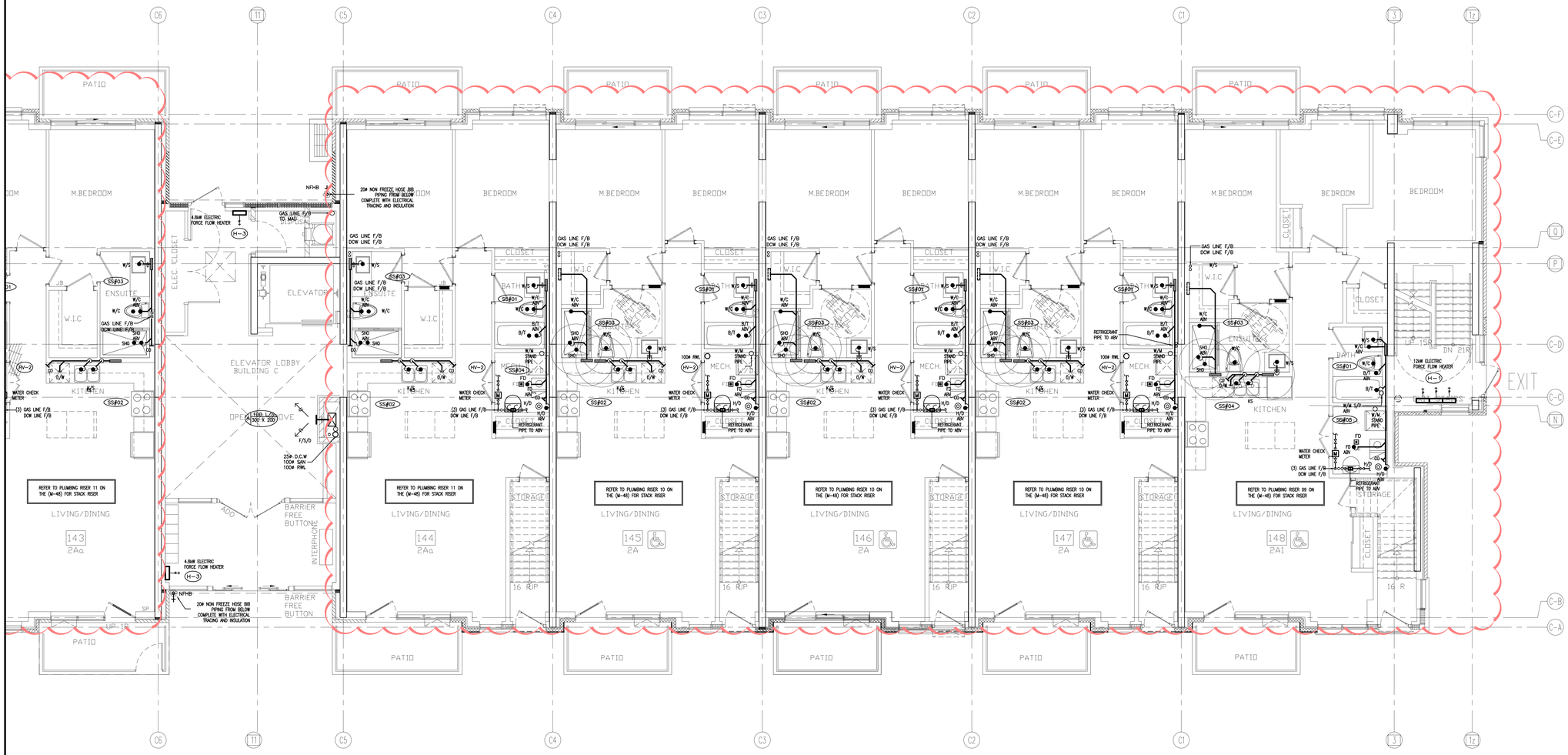
LICENCED PROFESSIONAL ENGINEER
Y. HOU
100117097
PROVINCE OF ONTARIO

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'
GROUND FLOOR - HVAC 1

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-15A
		OF -



NO.	BY	DESCRIPTION	DATE
12	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
11	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
10	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
09	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION#2	JUN. 15, 2021
08	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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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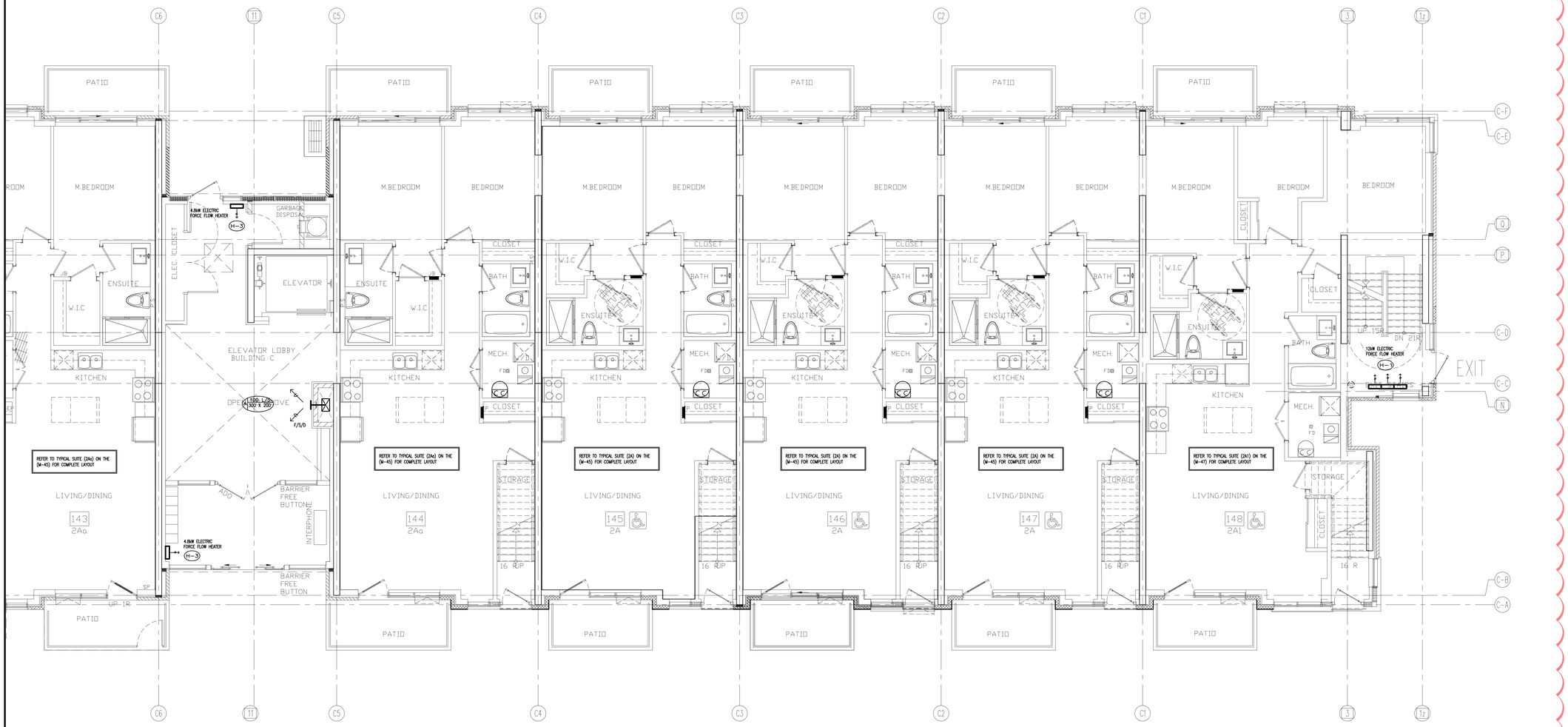
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TITLE
BLOCK 'C'
GROUND FLOOR - PLUMBING/SANITARY

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
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 24, 2021

REVISIONS

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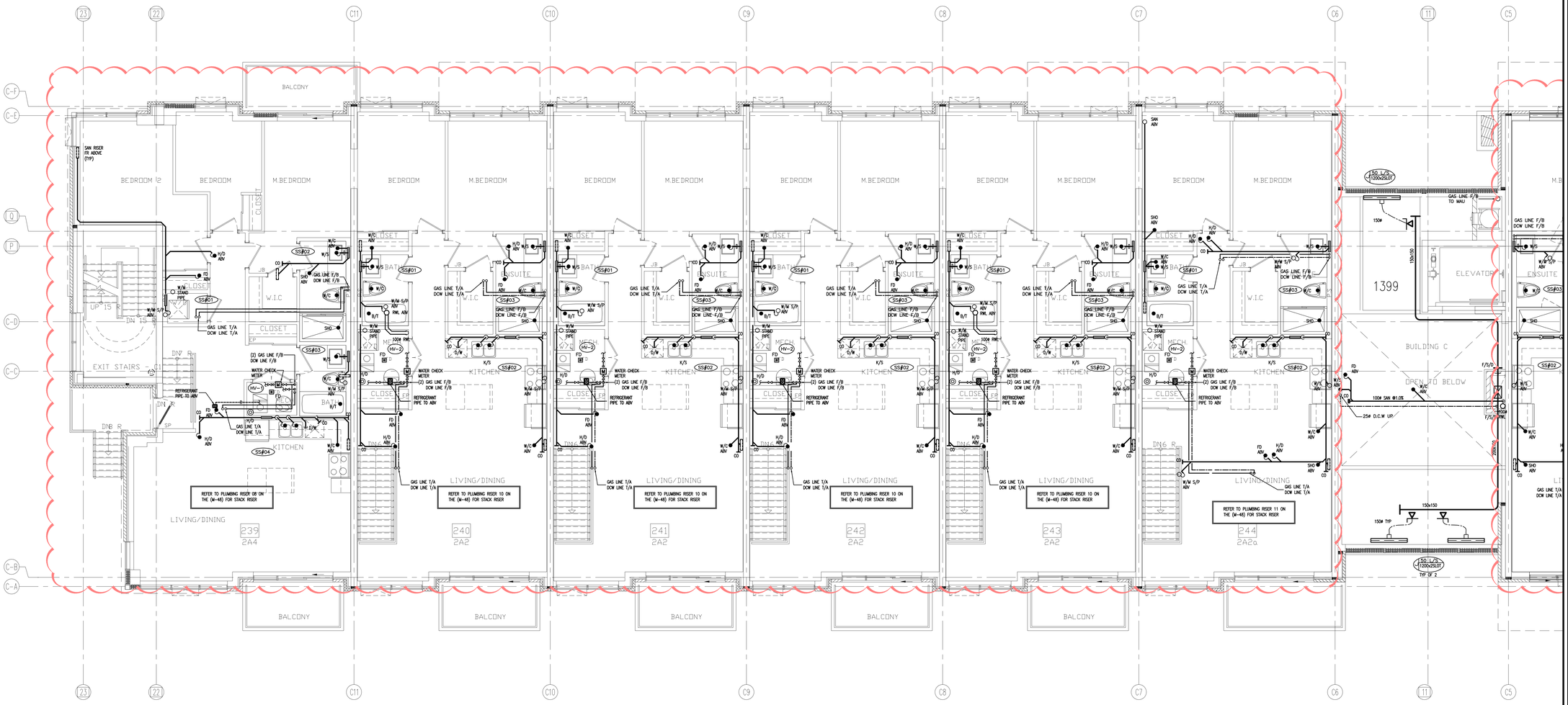
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Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE
BLOCK 'C'
GROUND FLOOR - HVAC 2

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-16A
		OF -



NO.	BY	DESCRIPTION	DATE
12	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
11	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
10	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
09	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
08	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
07	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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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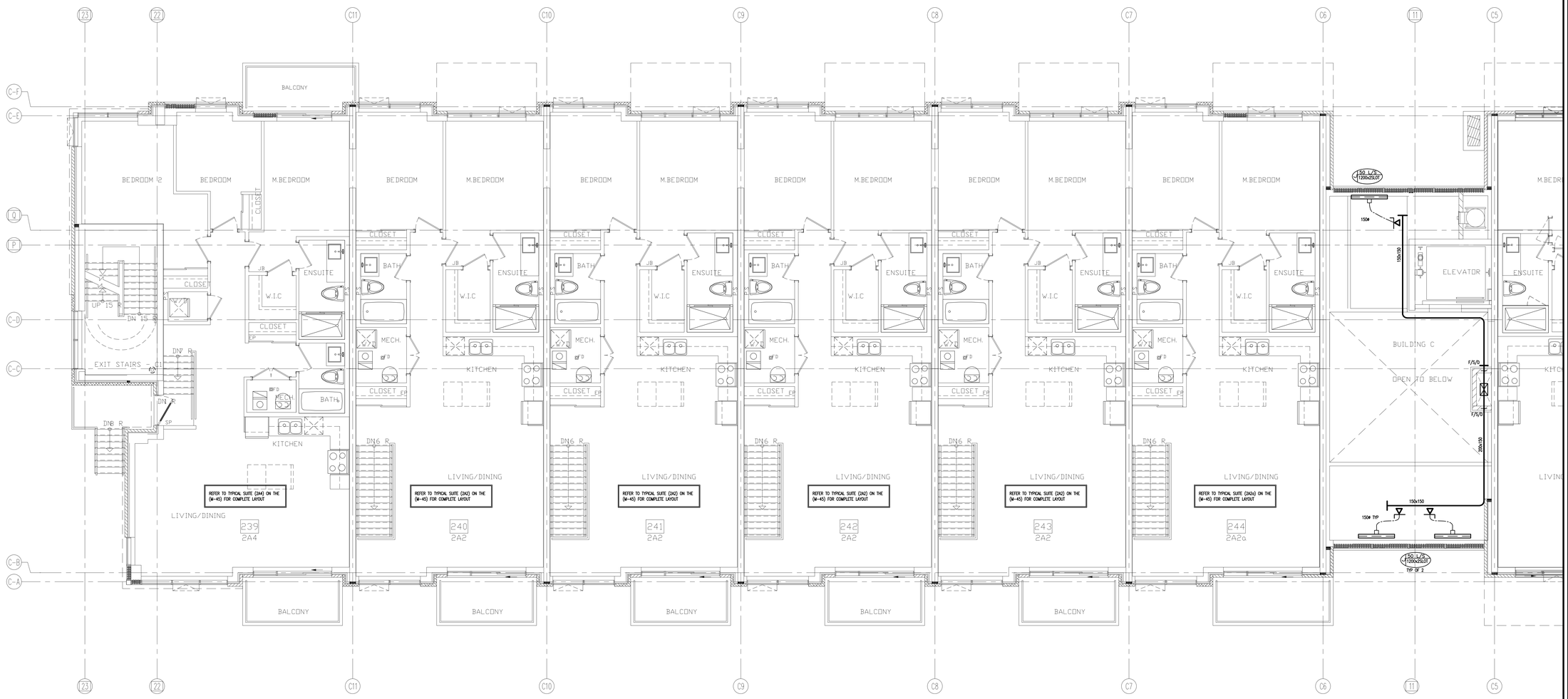
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TITLE
BLOCK 'C'
2ND FLOOR - PLUMBING/SANITARY

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
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 24, 2021

REVISIONS

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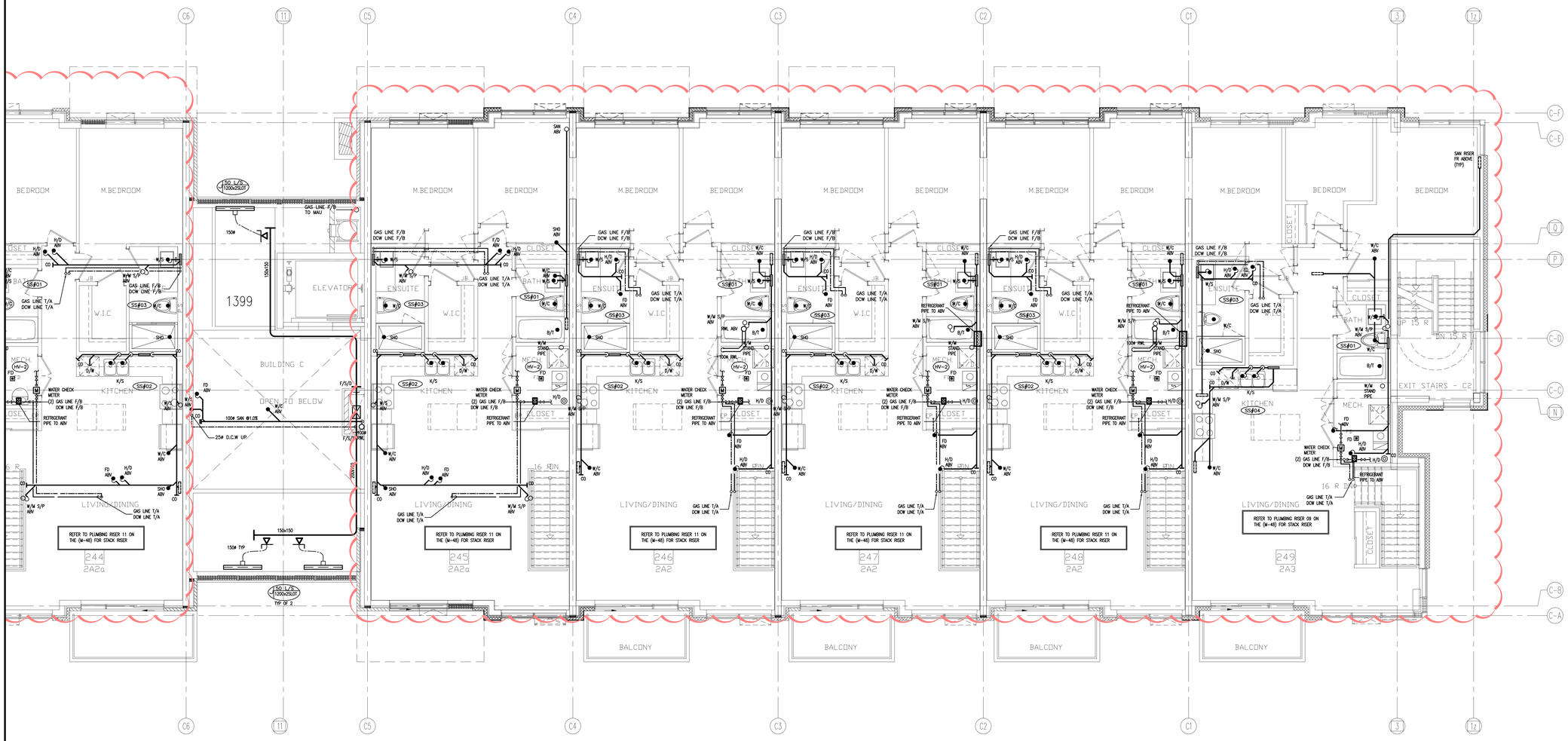
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TITLE
BLOCK 'C'
2ND FLOOR - HVAC 1

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-17A
		OF -



NO.	BY	DESCRIPTION	DATE
13	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
12	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
11	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
10	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
09	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
08	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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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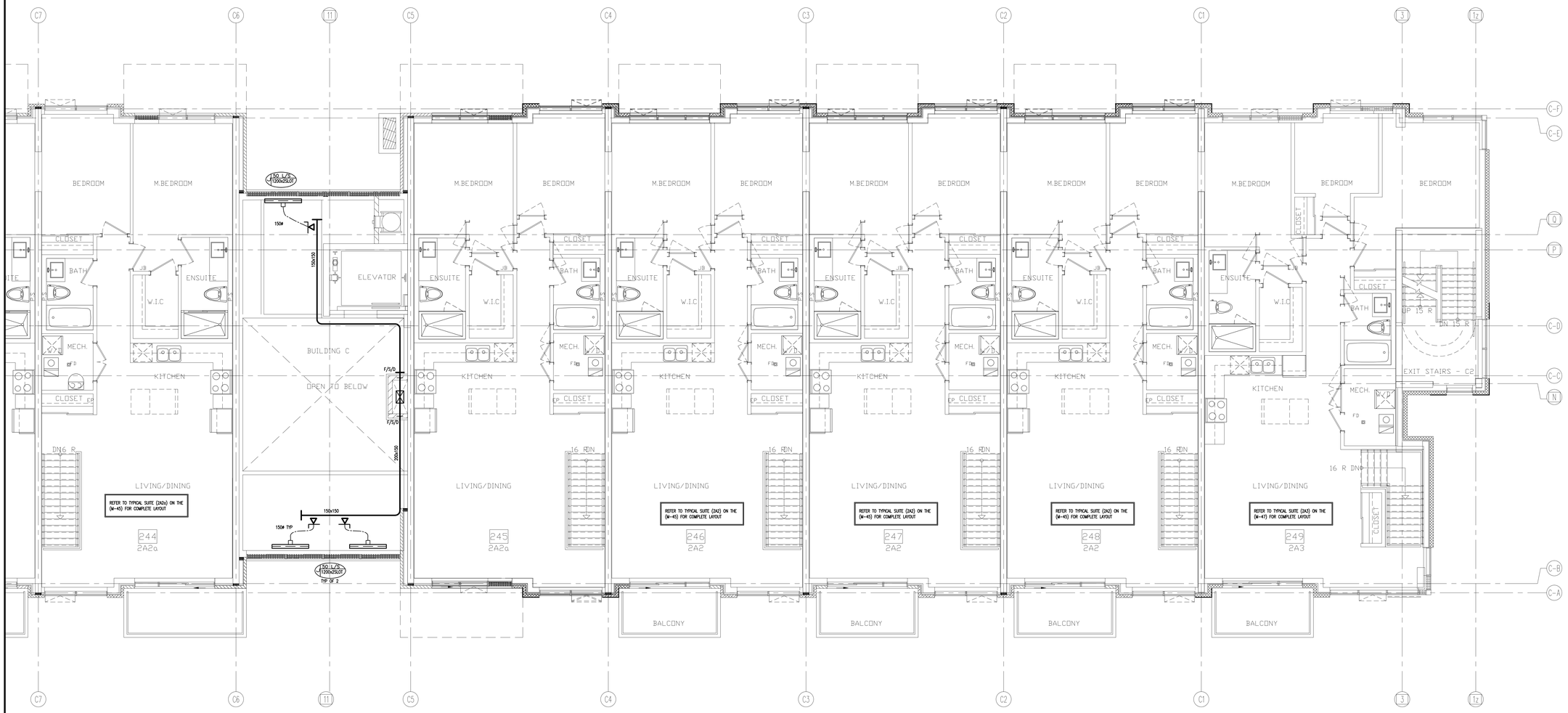
LICENCED PROFESSIONAL ENGINEER
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TITLE
BLOCK 'C'
2ND FLOOR - PLUMBING/SANITARY

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
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 24, 2021

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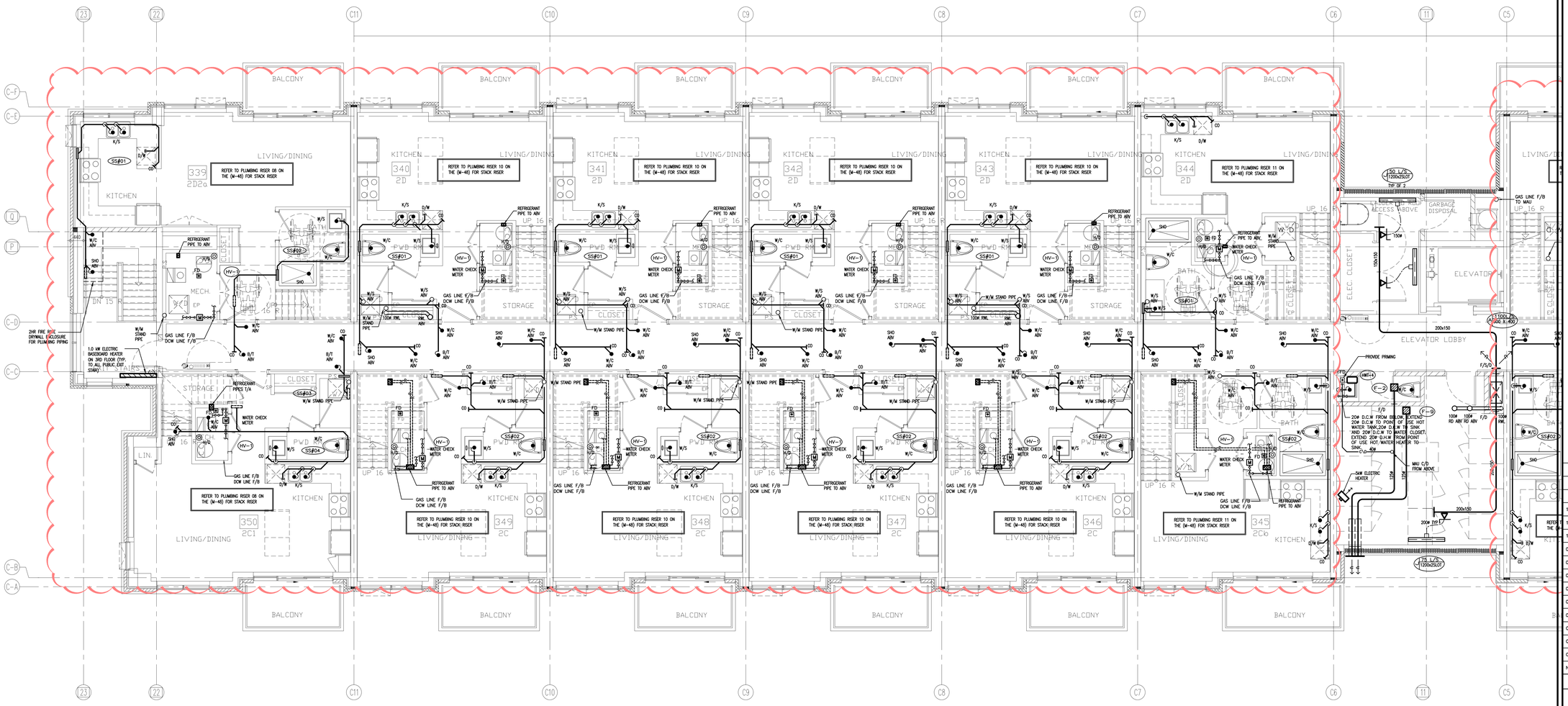
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Mechanical Electrical Consulting Engineers
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Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE
BLOCK 'C'
2ND FLOOR - HVAC 2

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-18A
		OF -



NO.	BY	DESCRIPTION	DATE
12	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
11	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
10	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
09	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
08	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
07	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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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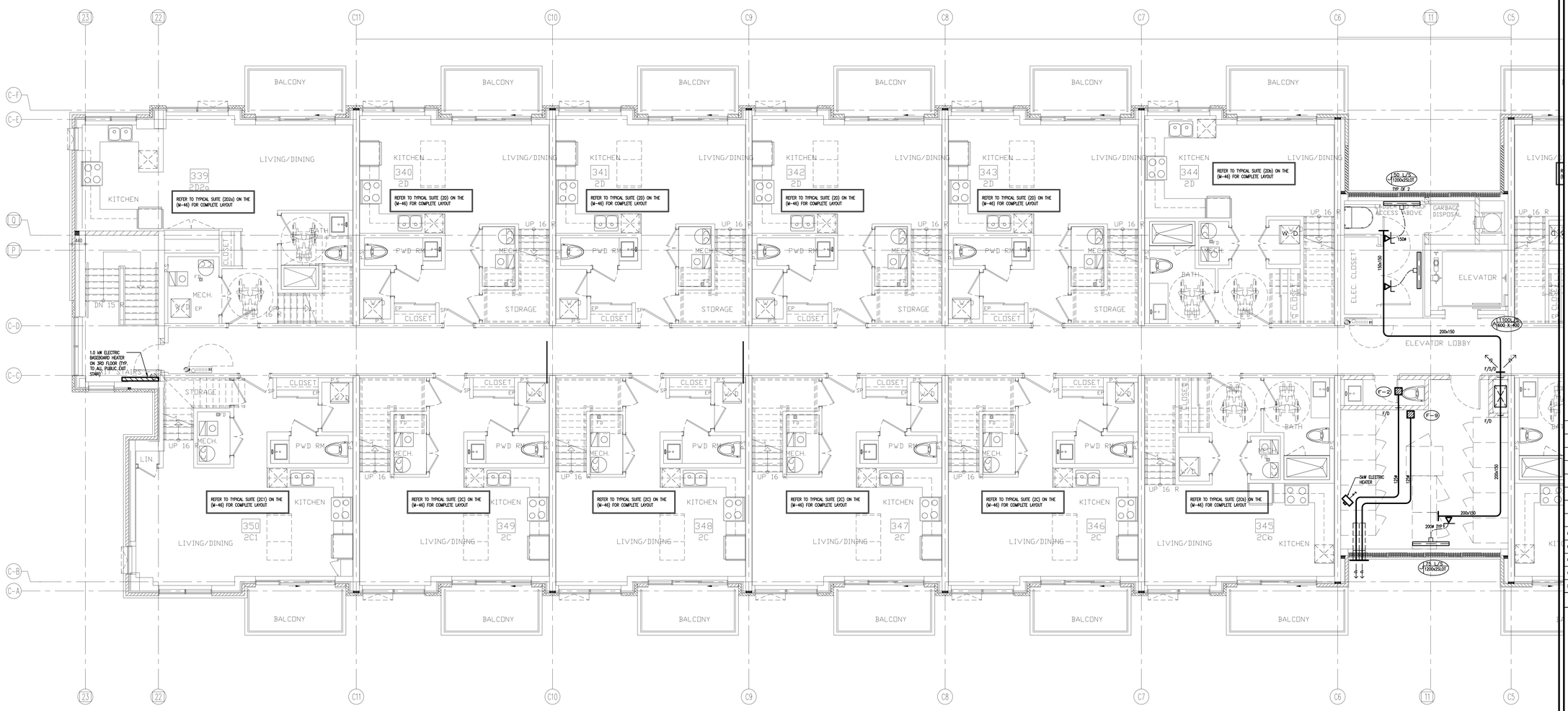
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TITLE
BLOCK 'C'
3RD FLOOR - PLUMBING/SANITARY

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
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 24, 2021

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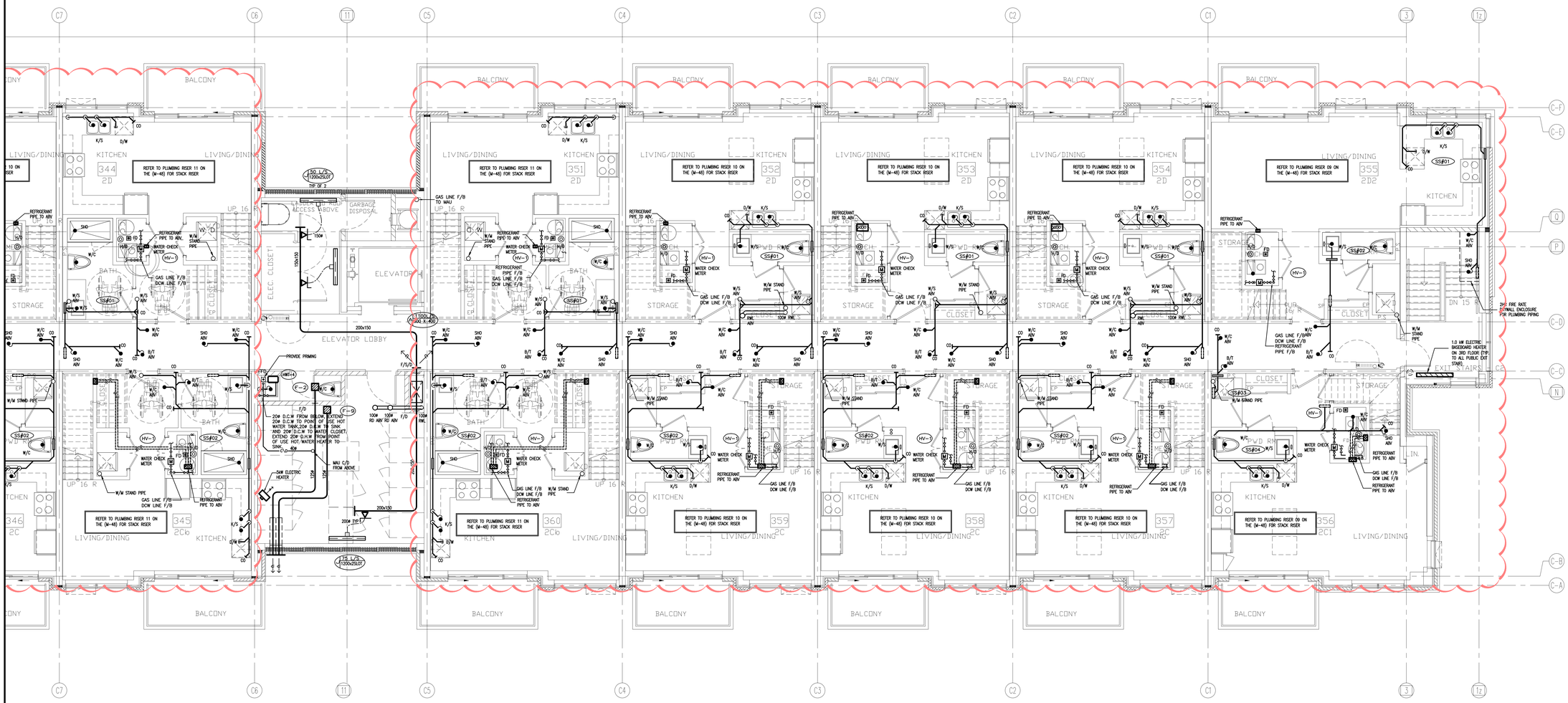
LICENCED PROFESSIONAL ENGINEER
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TITLE
BLOCK 'C'
3RD FLOOR - HVAC 1

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-19A
		OF -



NO.	BY	DESCRIPTION	DATE
13	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
12	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
11	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
10	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
09	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
08	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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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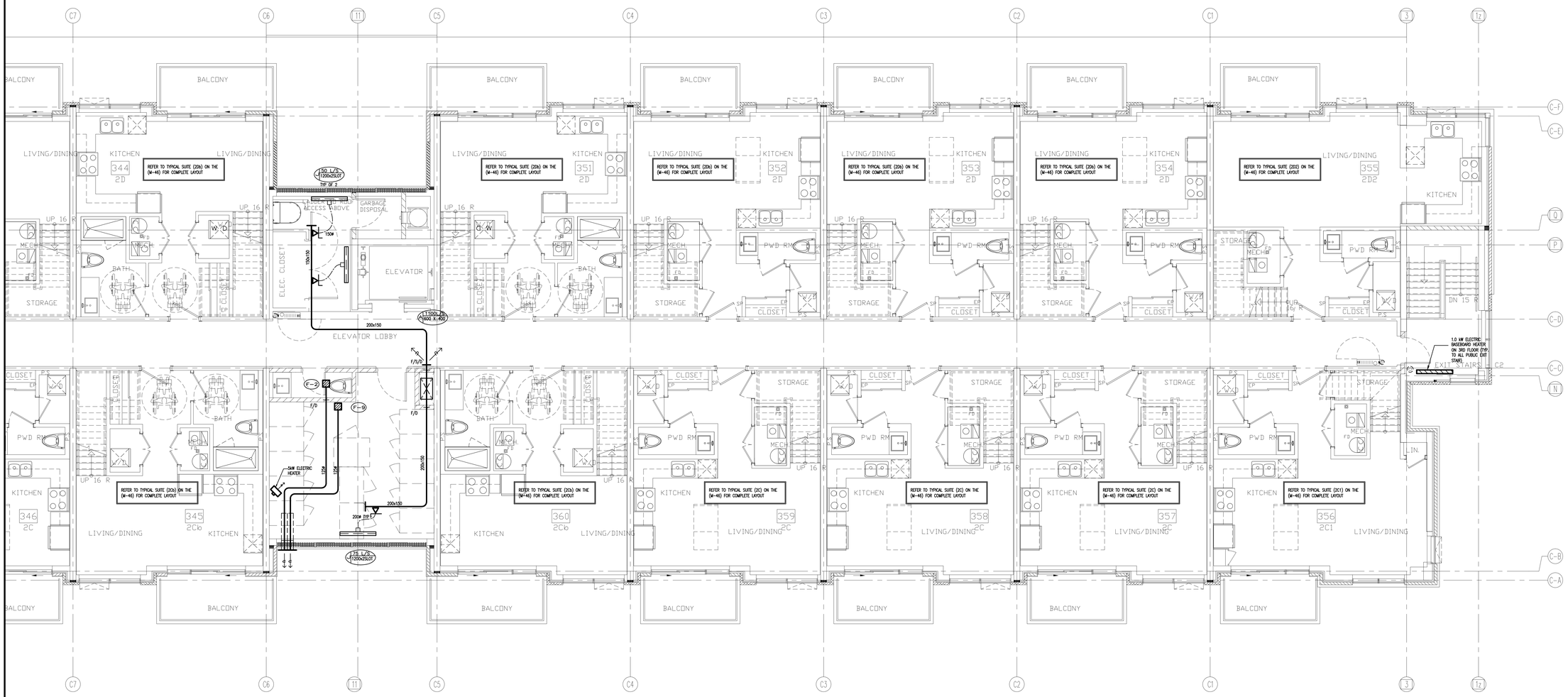
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TITLE
BLOCK 'C'
3RD FLOOR - PLUMBING/SANITARY

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 -



NO.	BY	DESCRIPTION	DATE
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 24, 2021

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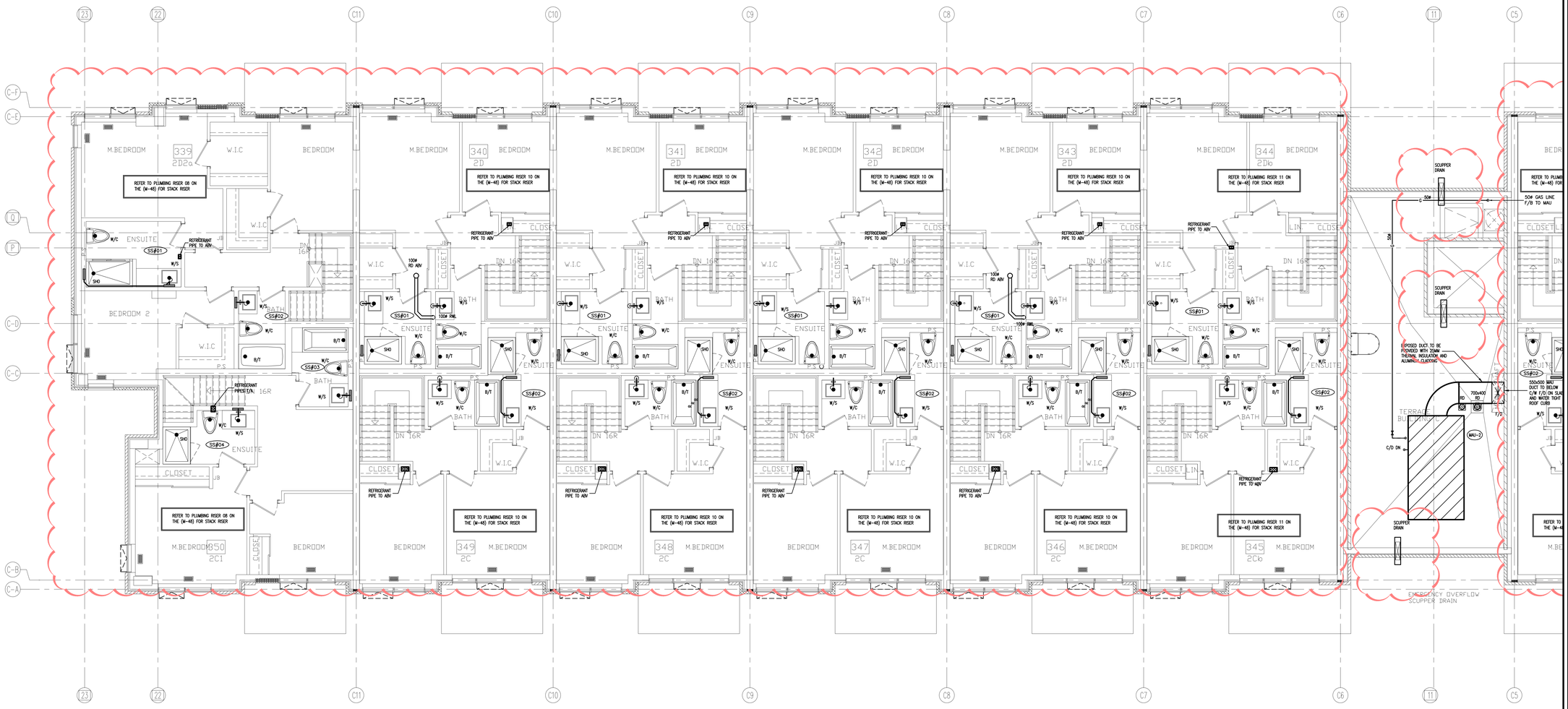
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TITLE
BLOCK 'C'
3RD FLOOR - HVAC 2

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-20A
		OF -



NO.	BY	DESCRIPTION	DATE
14	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
13	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
12	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
11	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
10	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
09	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
08	LB	ISSUED AS PER SITE INSTRUCTION M-01	APR. 28, 2021
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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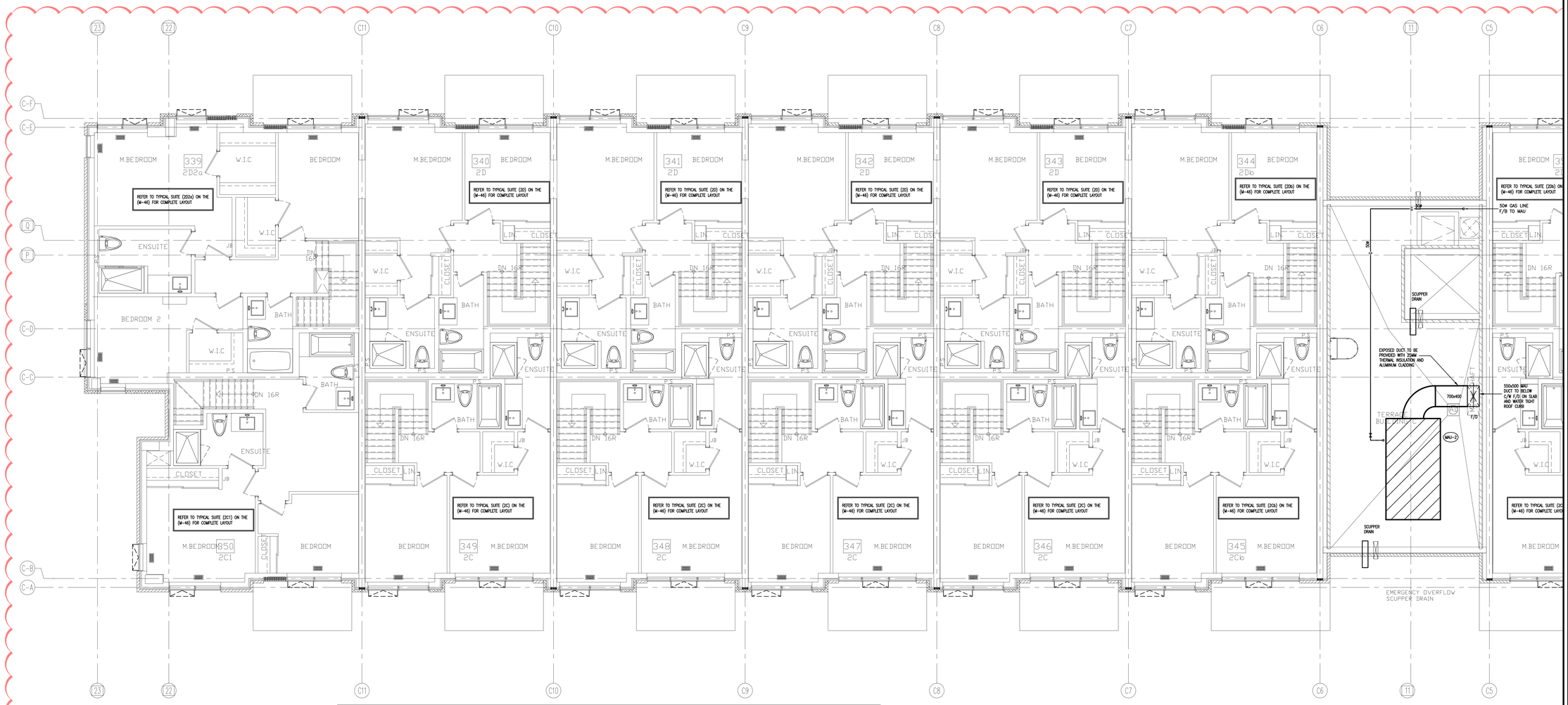
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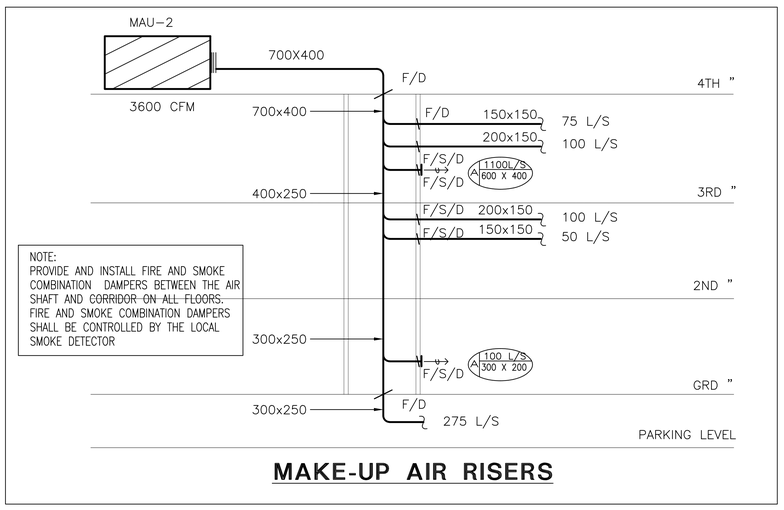
UNITED ENGINEERING INC.
Mechanical Electrical Consulting Engineers
3645 Keele Street, Suite 105,
Toronto, Ontario, M3J 1M6
Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE
BLOCK 'C'
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 -





MAKE-UP AIR RISERS

NO.	BY	DESCRIPTION	DATE
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 24, 2021

REVISIONS

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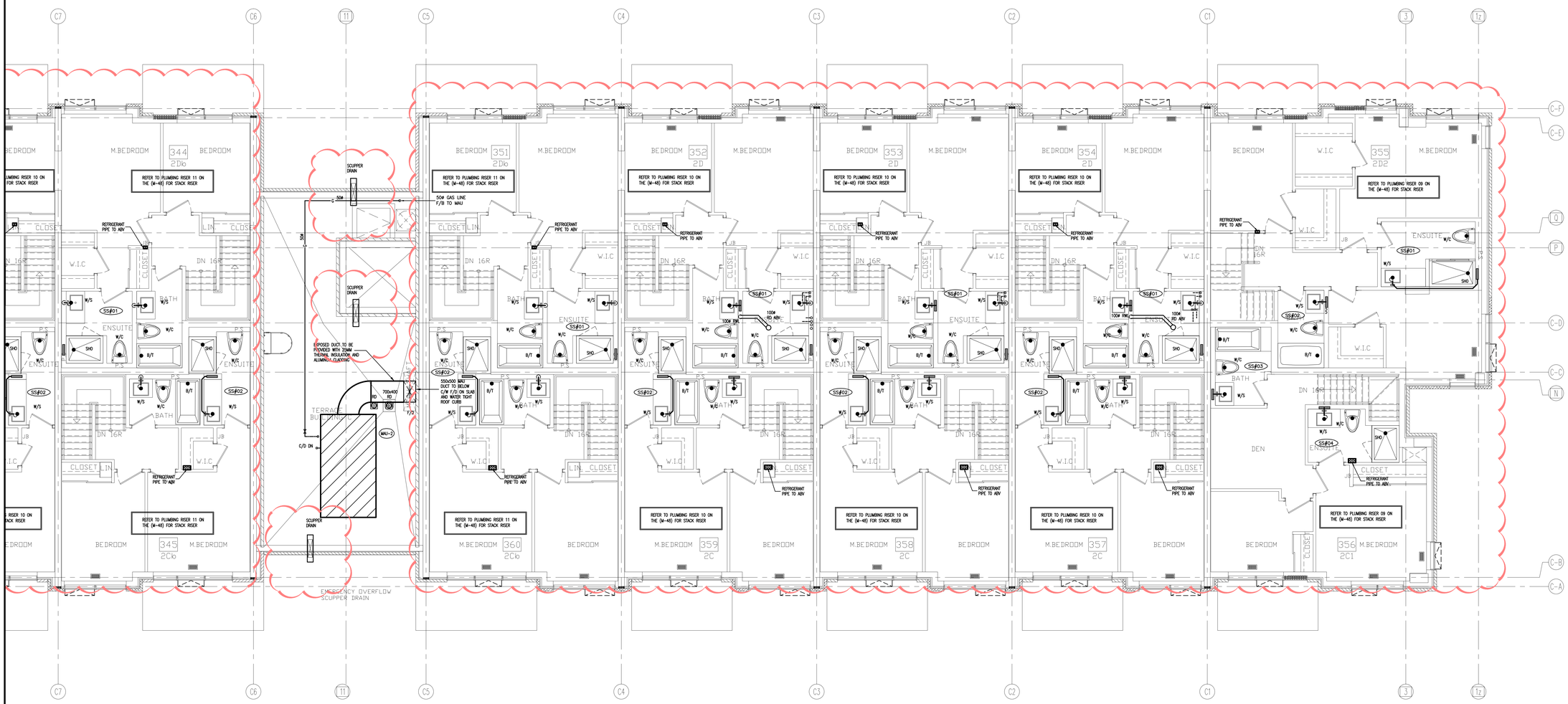
LICENCED PROFESSIONAL ENGINEER
Y. HOU
100117097
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UNITED ENGINEERING INC.
Mechanical Electrical Consulting Engineers
3645 Keele Street, Suite 105,
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TITLE
BLOCK 'C'
4TH FLOOR - HVAC 1

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-21A
		OF -



NO.	BY	DESCRIPTION	DATE
12	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
11	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
10	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
09	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
08	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
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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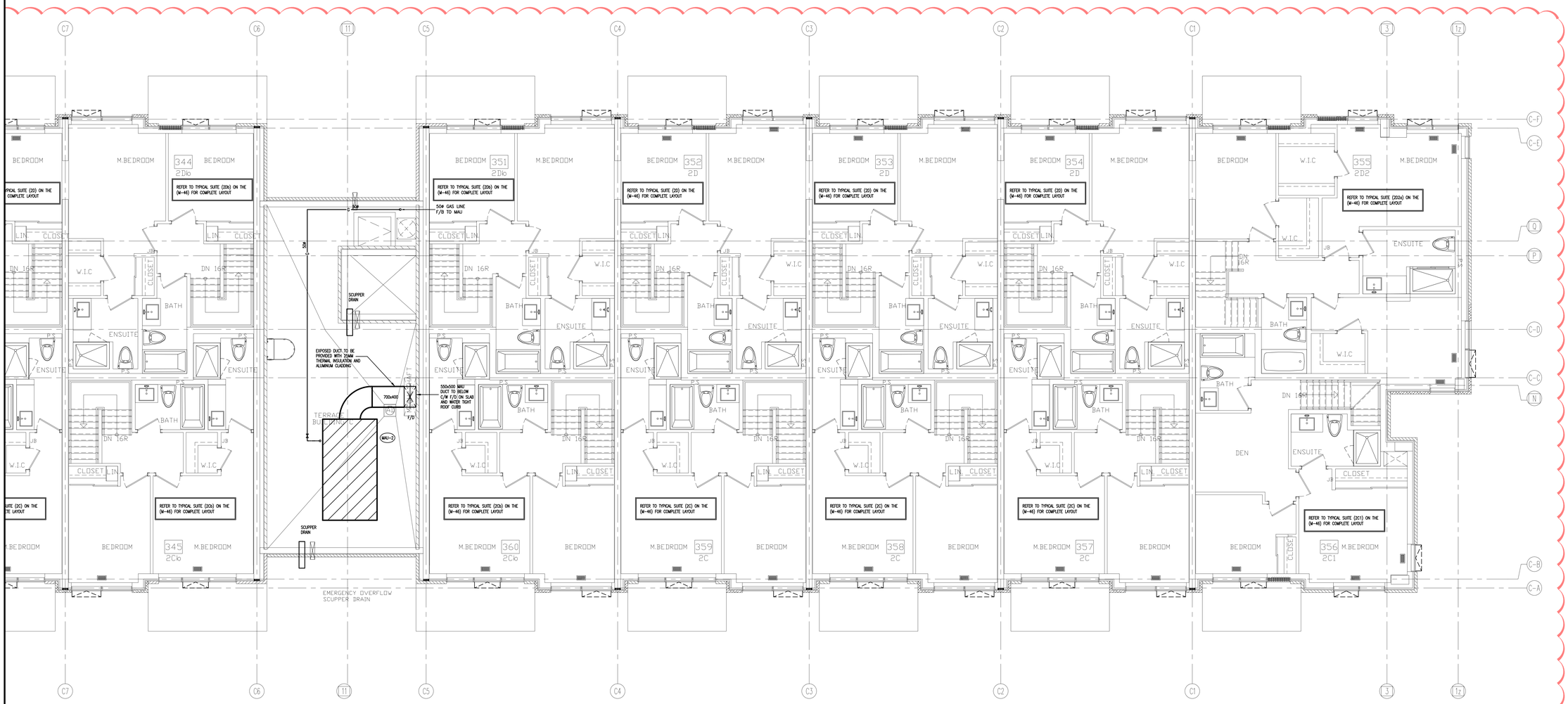
TITLE
BLOCK 'C'
4TH FLOOR - PLUMBING/SANITARY

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-22
		OF -



NO.	BY	DESCRIPTION	DATE
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 24, 2021

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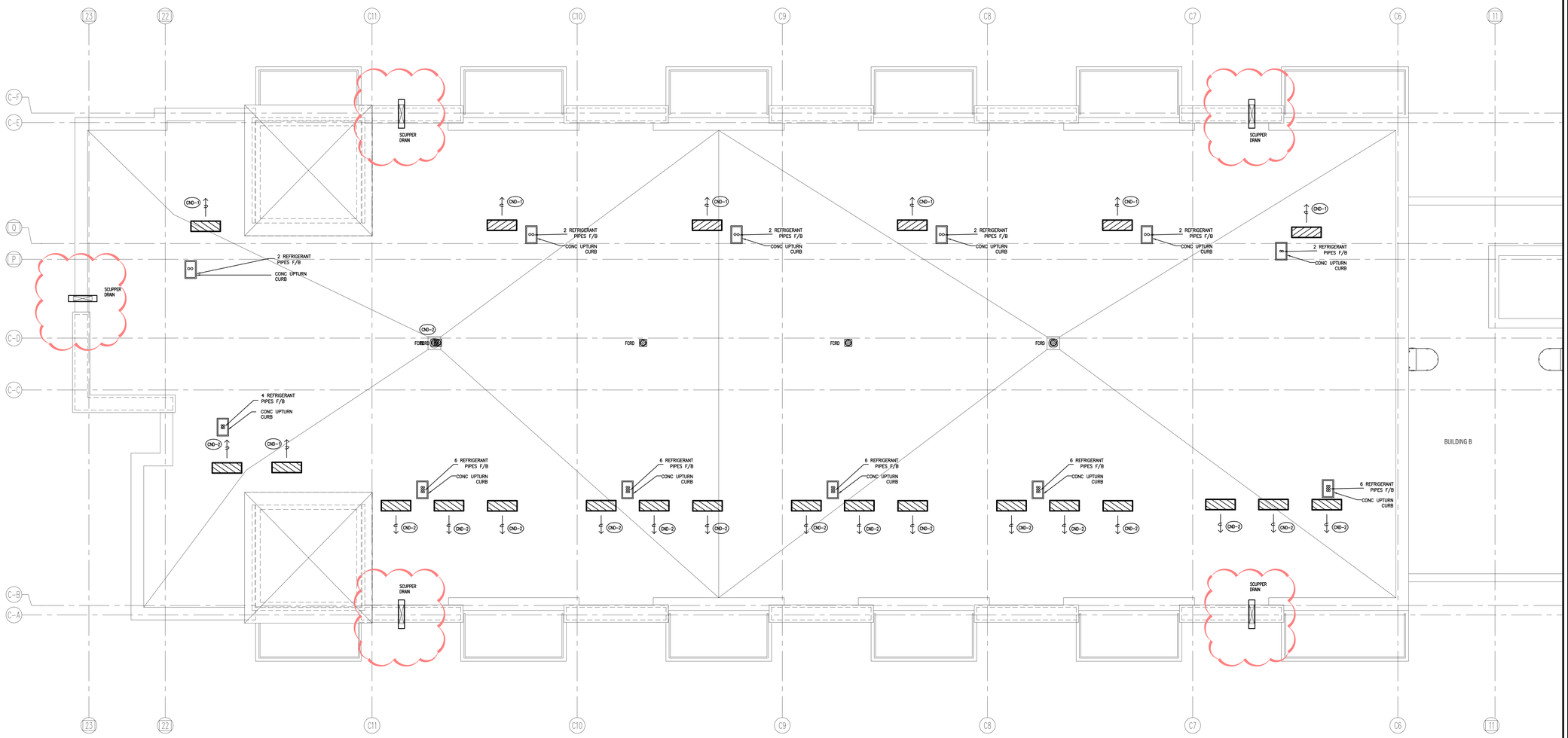
LICENCE PROFESSIONAL ENGINEER
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TITLE
BLOCK 'C'
4TH FLOOR - HVAC 2

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-22A
		OF -



NO.	BY	DESCRIPTION	DATE
11	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
10	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
09	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
08	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
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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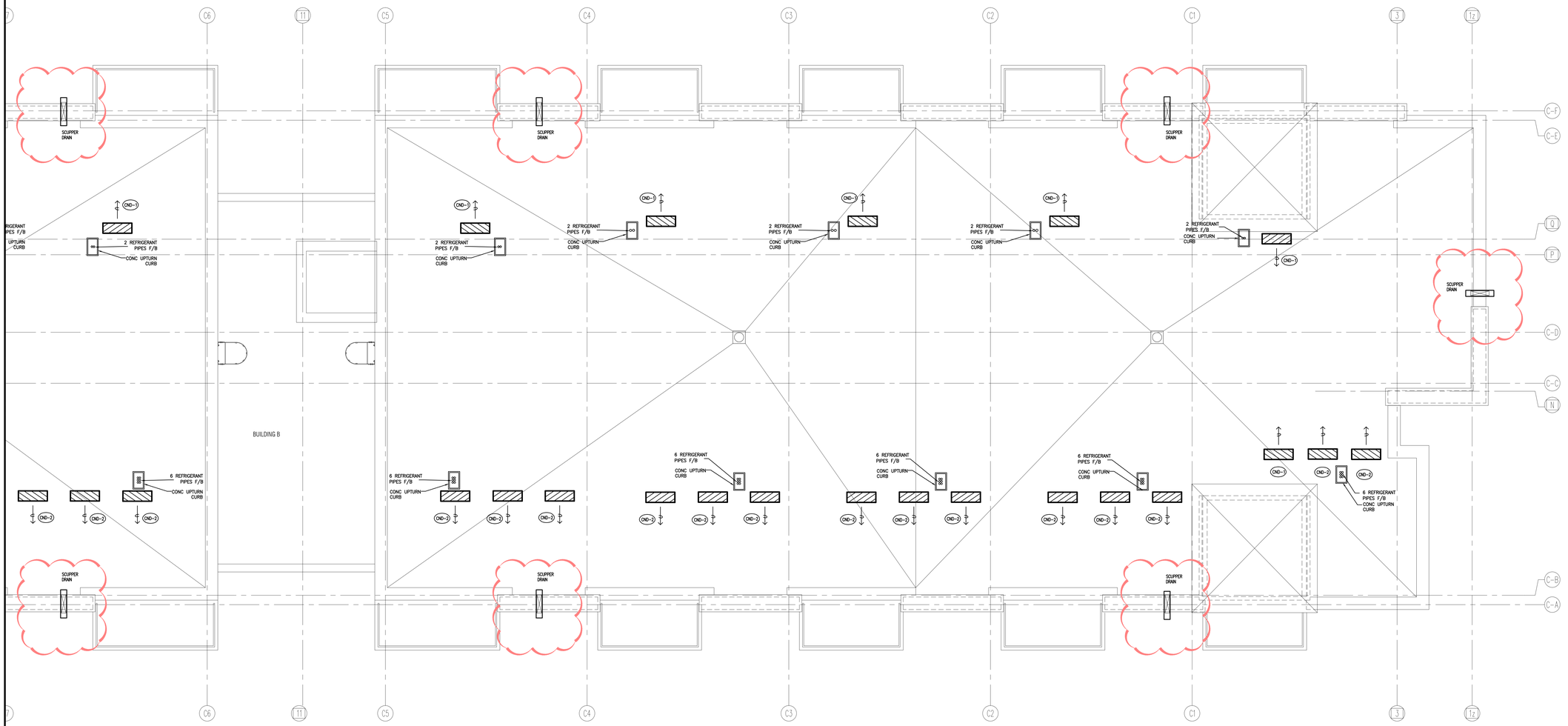
TITLE
BLOCK 'C'
ROOF - PLUMBING/SANITARY

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 -



NO.	BY	DESCRIPTION	DATE
11	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
10	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
09	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
08	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
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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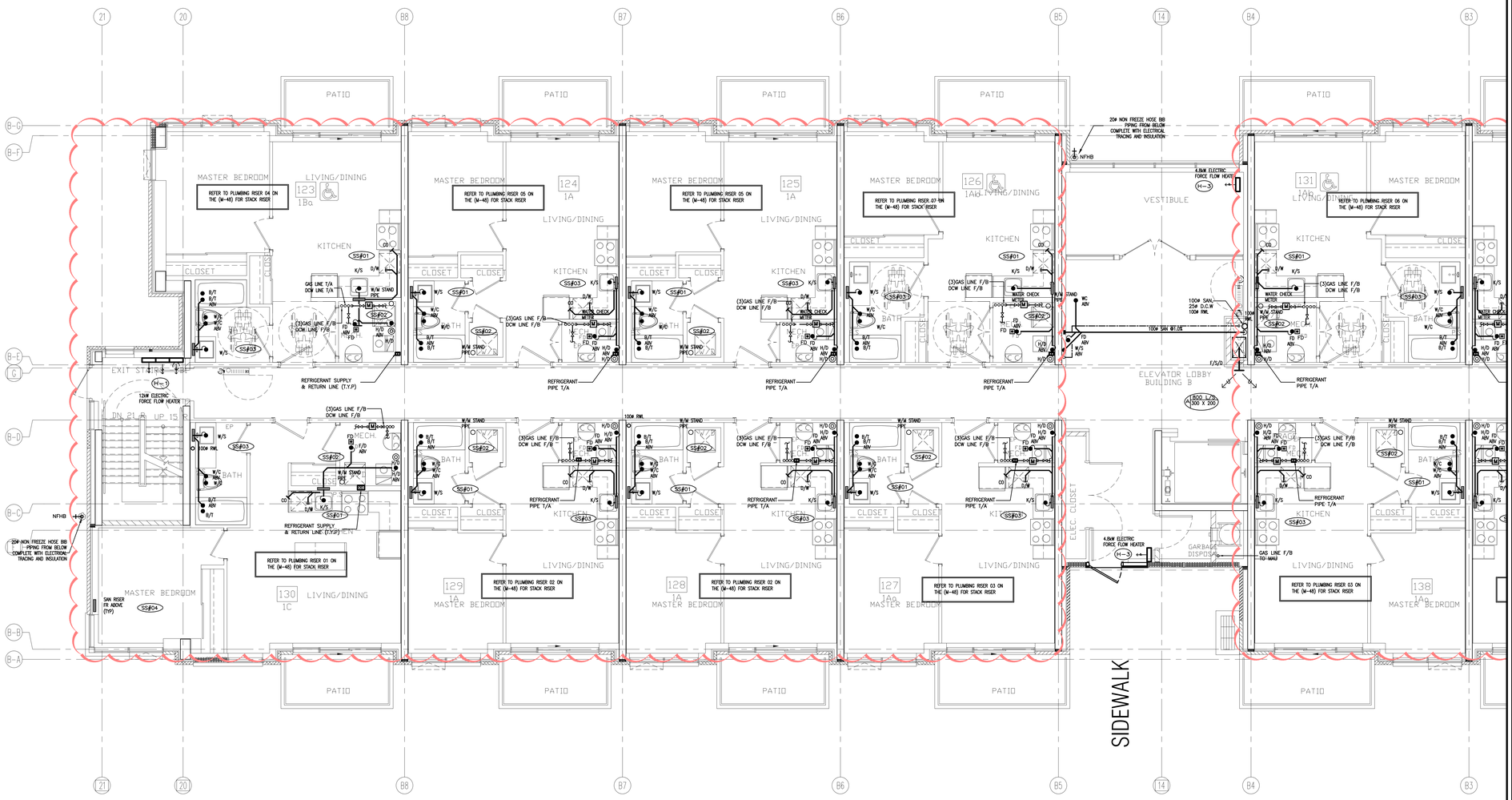
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TITLE
BLOCK 'C'
ROOF - PLUMBING/SANITARY

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
12	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
11	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
10	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
09	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
08	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
07	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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 '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
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 22, 2021

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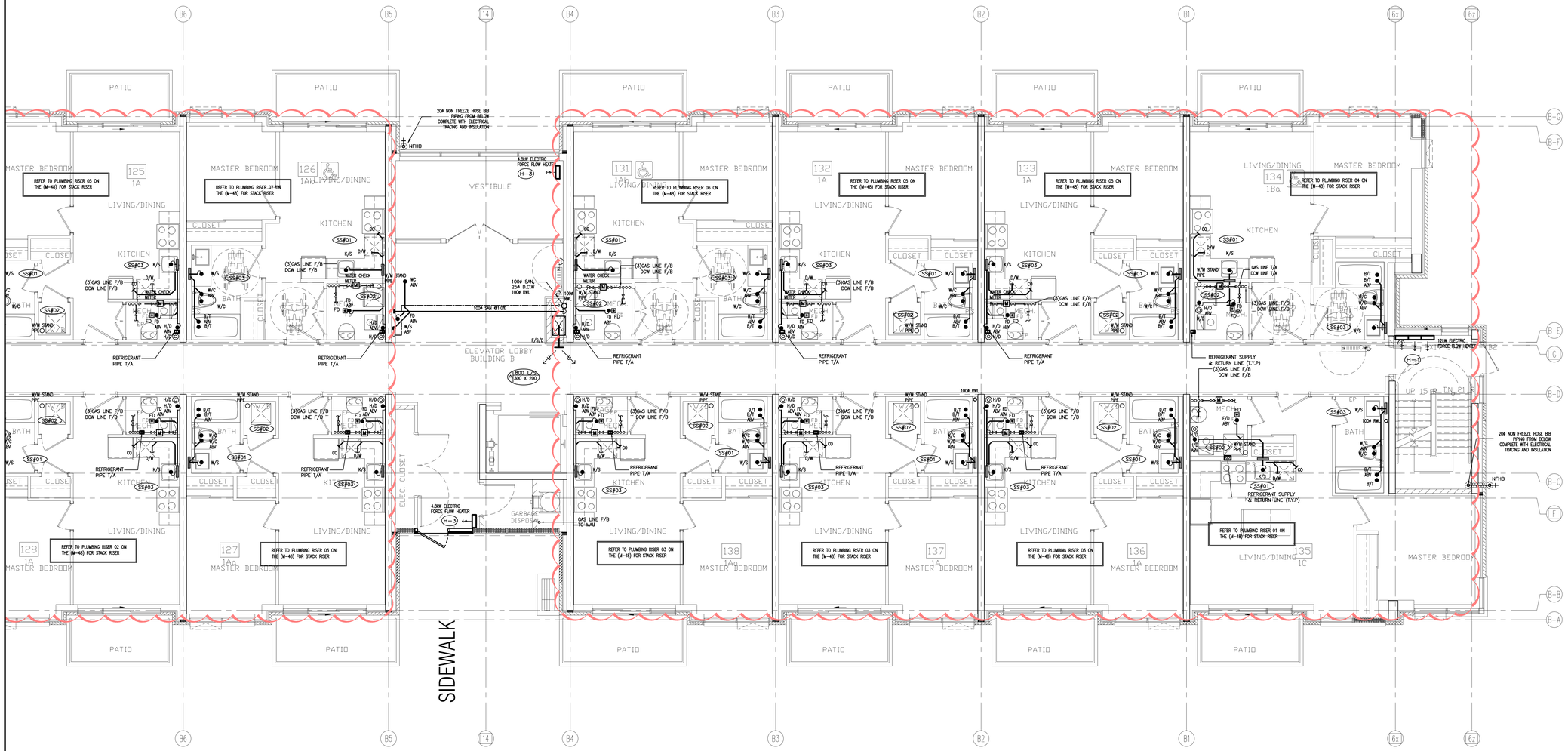
TITLE
BLOCK 'B'
GROUND FLOOR - HVAC 1

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-25A
		OF -



NO.	BY	DESCRIPTION	DATE
13	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
12	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
11	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
10	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
09	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
08	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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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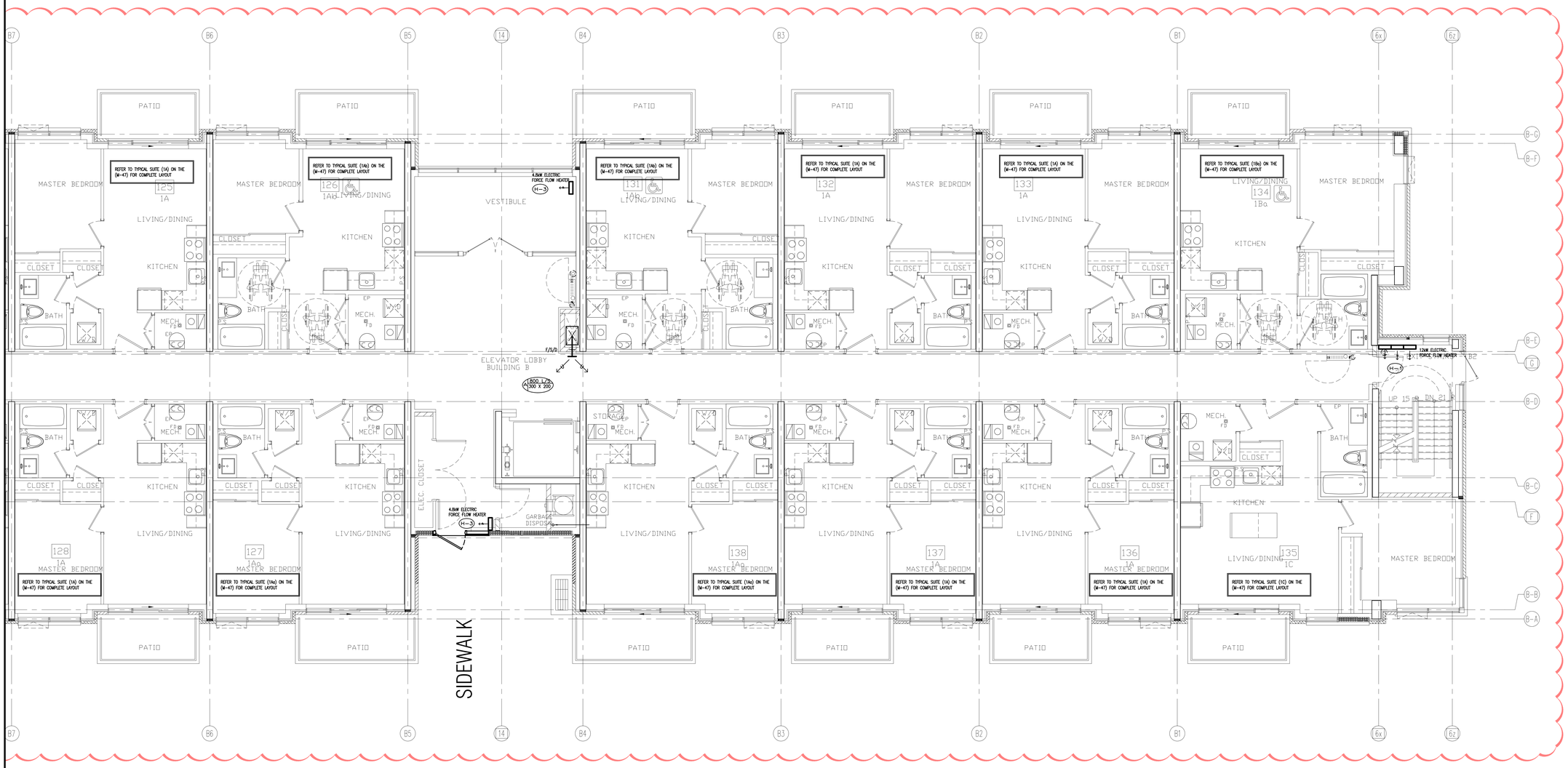
TITLE
BLOCK 'B'
GROUND FLOOR - PLUMBING/SANITARY

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
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 22, 2021

REVISIONS

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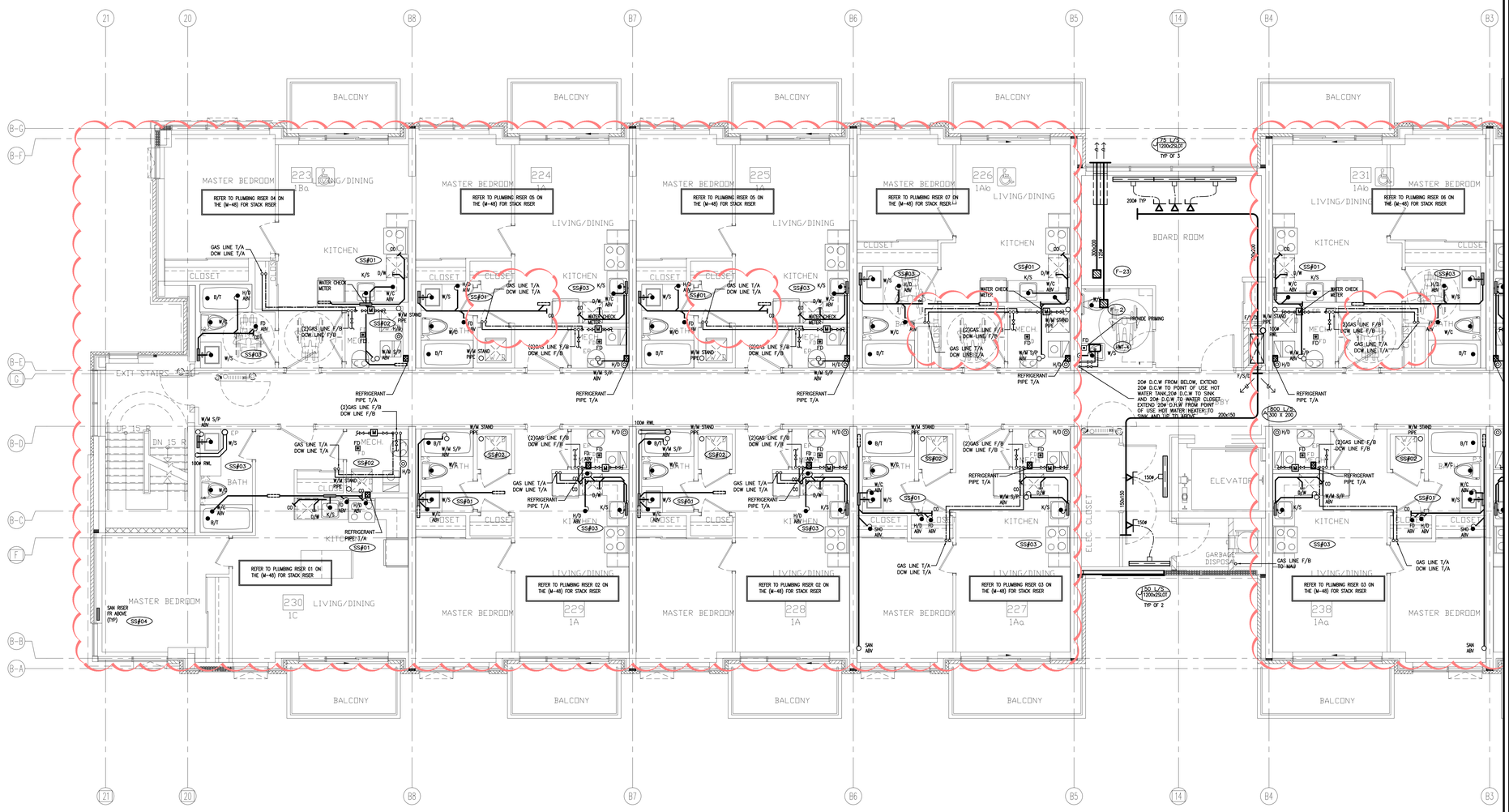
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TITLE
BLOCK 'B'
GROUND FLOOR - HVAC 2

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-26A
		OF -



NO.	BY	DESCRIPTION	DATE
12	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
11	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
10	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
09	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
08	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
07	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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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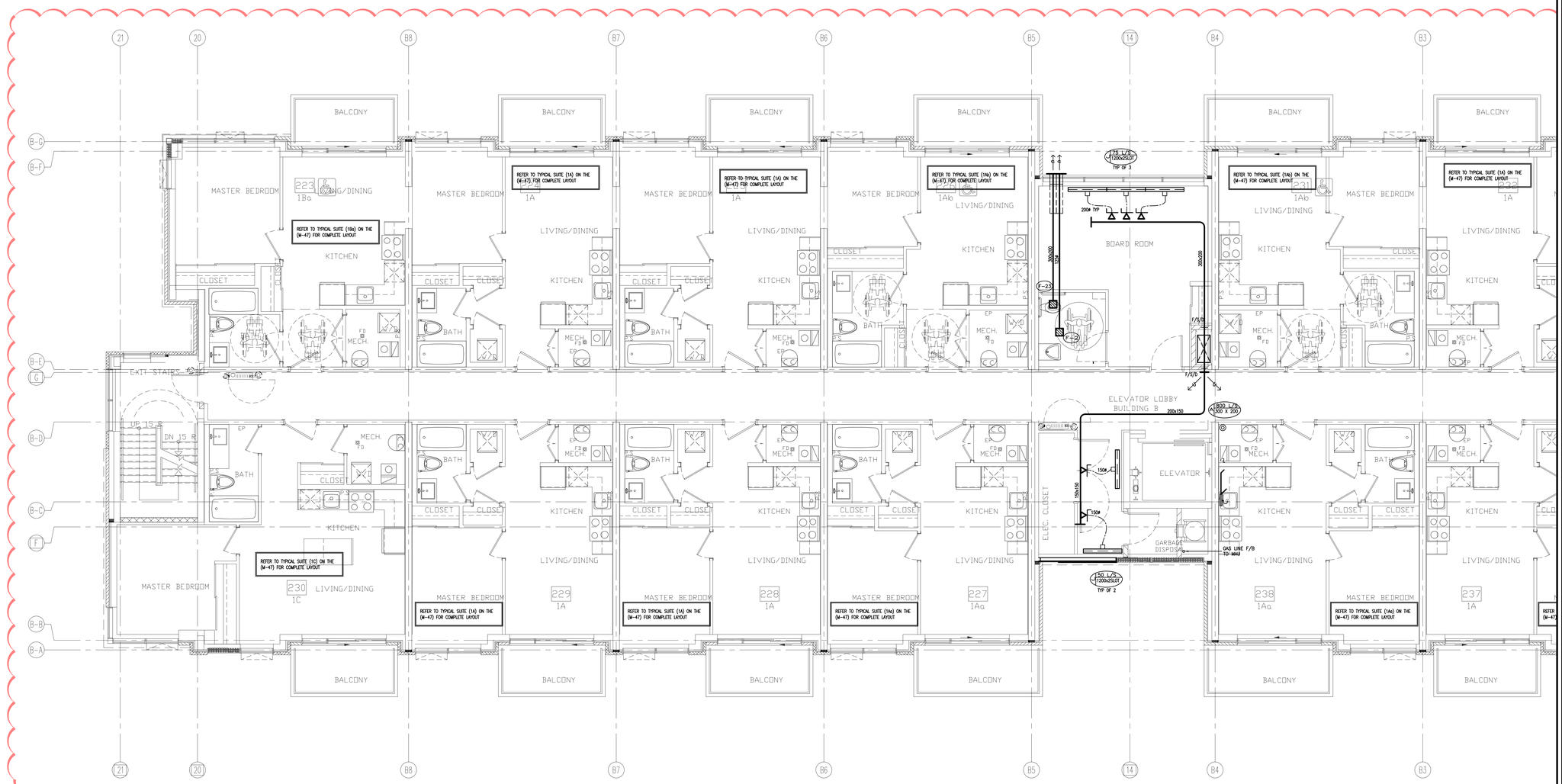
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TITLE
BLOCK 'B'
2ND FLOOR - PLUMBING/SANITARY

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 -



04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 22, 2021
NO.	BY	DESCRIPTION	DATE

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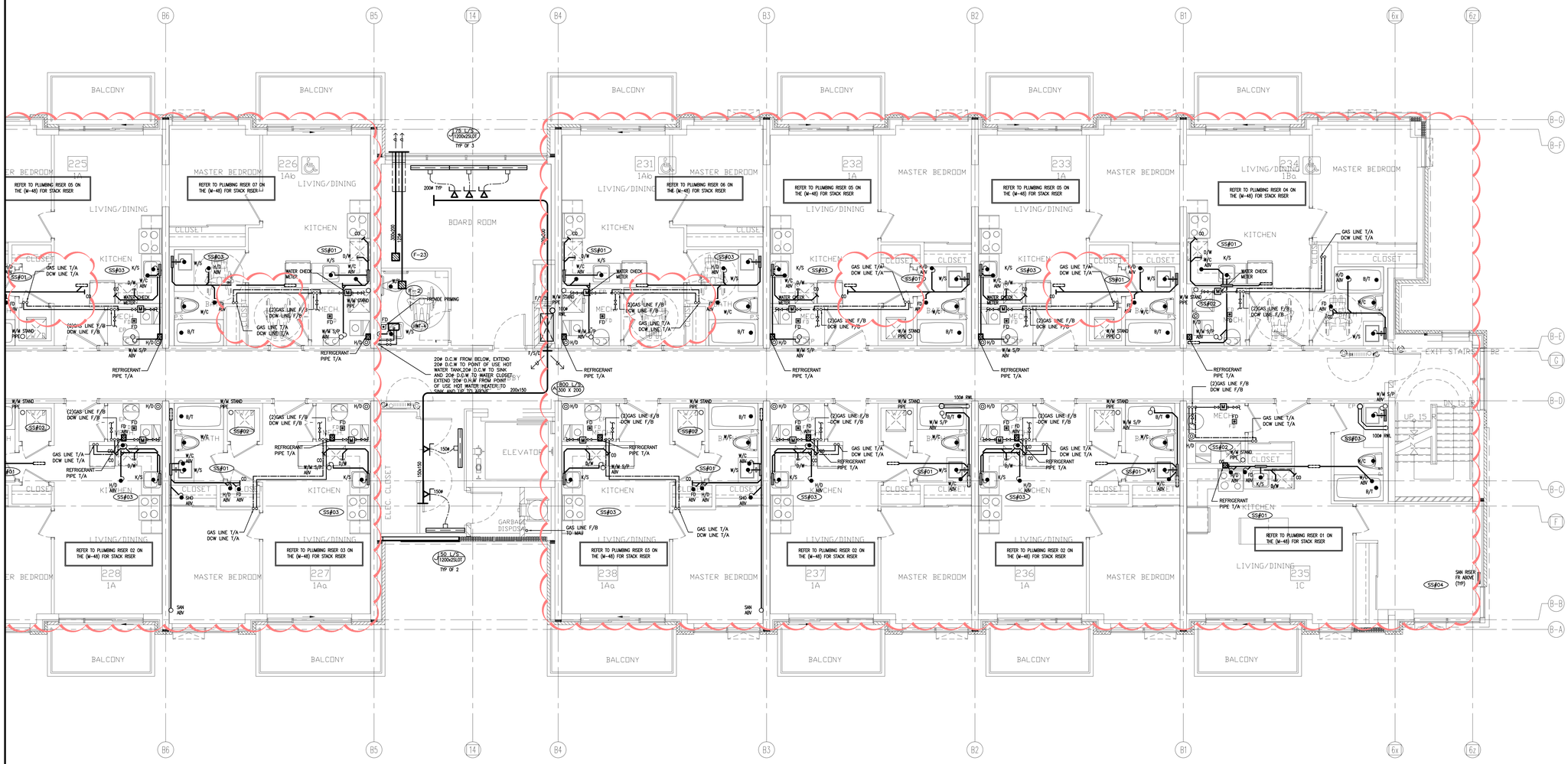
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TITLE
BLOCK 'B'
2ND FLOOR - HVAC 1

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-27A
		OF -



NO.	BY	DESCRIPTION	DATE
13	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
12	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
11	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
10	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
09	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION#2	JUN. 15, 2021
08	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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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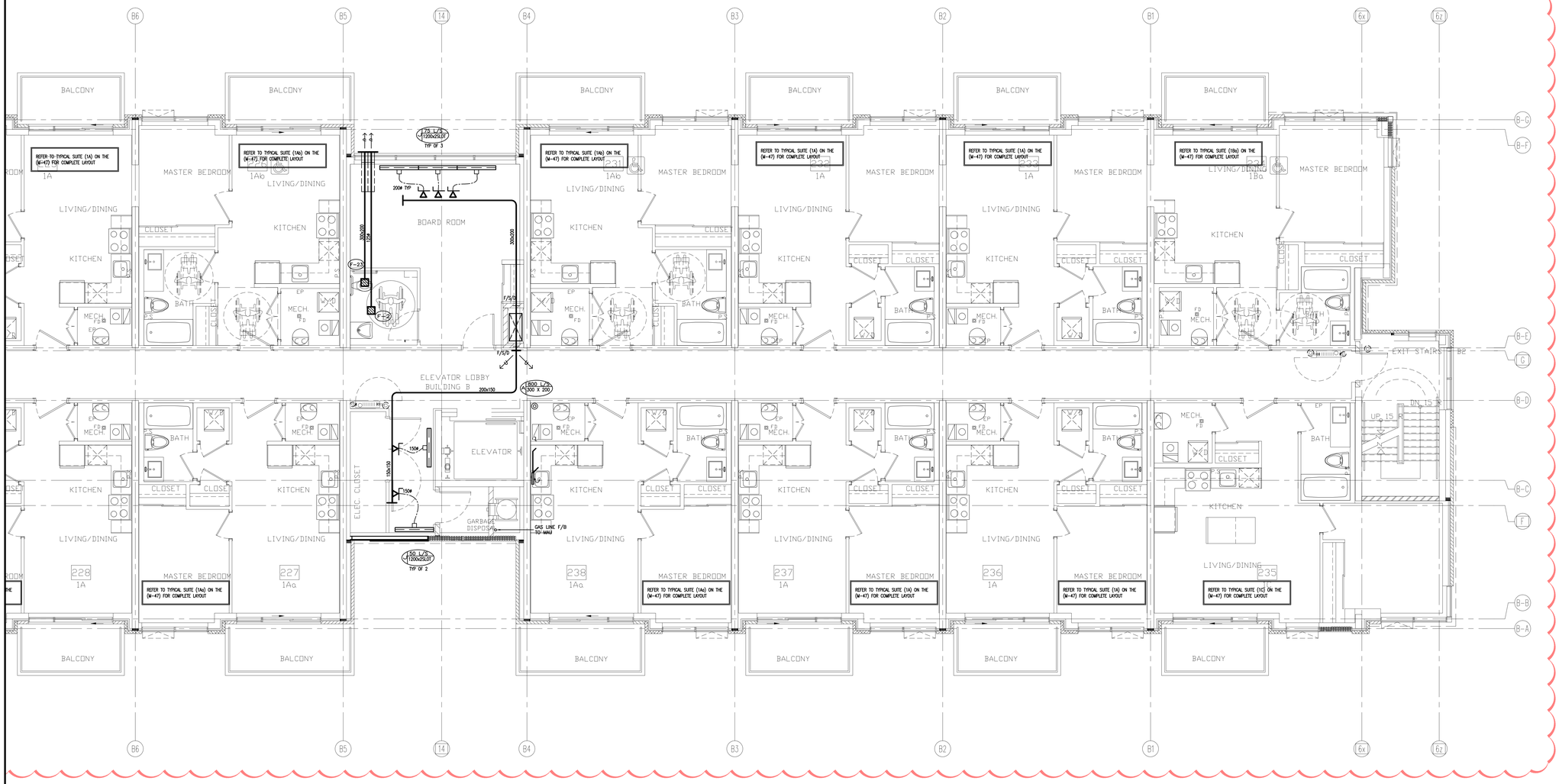
LICENCED PROFESSIONAL ENGINEER
Y. HOU
100117097
PROVINCE OF ONTARIO

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 '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 -



NO.	BY	DESCRIPTION	DATE
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 22, 2021

REVISIONS

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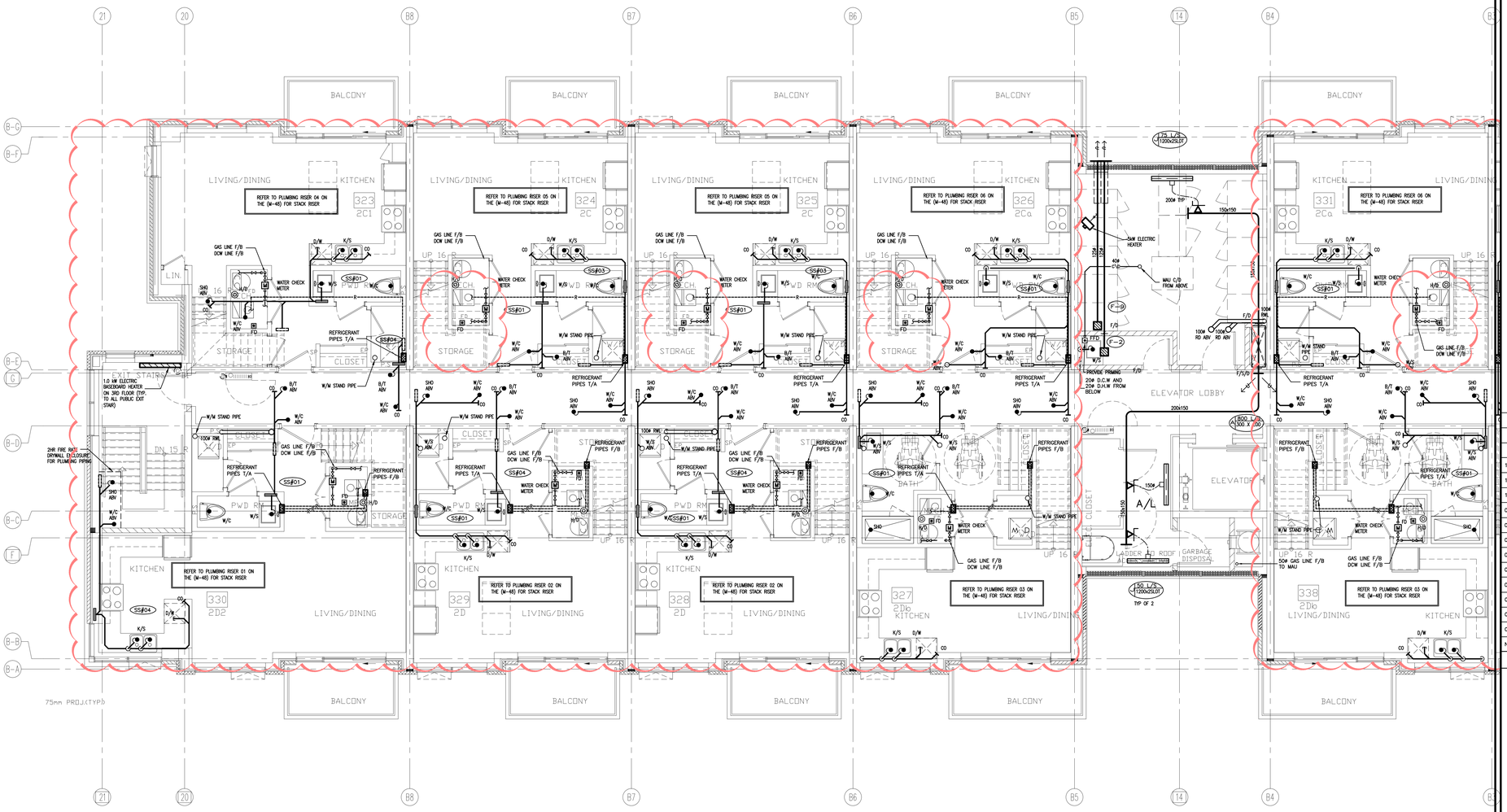
LICENCED PROFESSIONAL ENGINEER
Y. HOU
100117097
PROVINCE OF ONTARIO

UNITED ENGINEERING INC.
Mechanical Electrical Consulting Engineers
3645 Keele Street, Suite 105,
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TITLE
BLOCK 'B'
2ND FLOOR - HVAC 2

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-28A
		OF -



NO.	BY	DESCRIPTION	DATE
12	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
11	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
10	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
09	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
08	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
07	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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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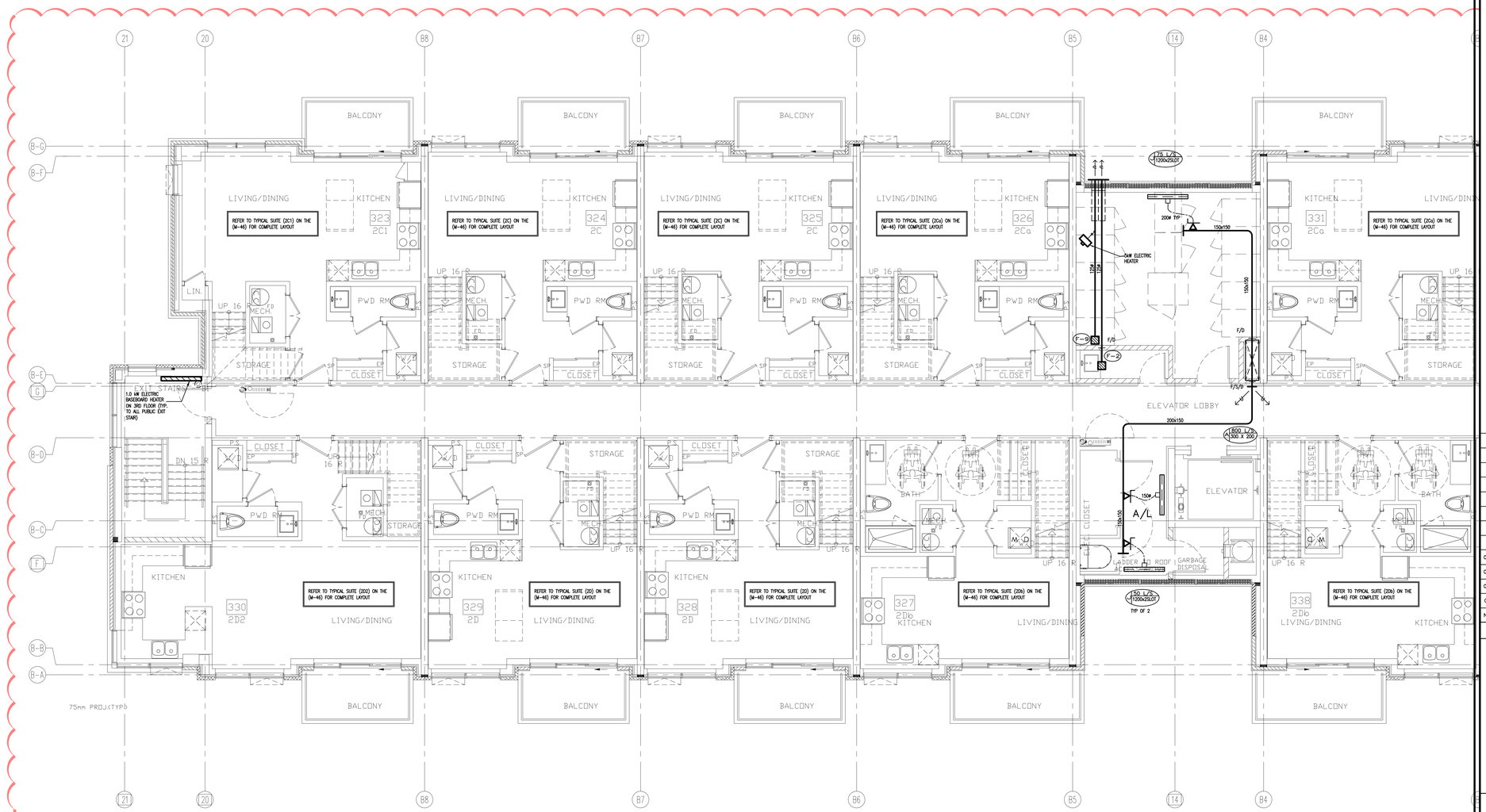
LICENCED PROFESSIONAL ENGINEER
Y. HOU
100117087
PROVINCE OF ONTARIO

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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-29
		OF -



04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 22, 2021
NO.	BY	DESCRIPTION	DATE

REVISIONS

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LICENCE PROFESSIONAL ENGINEER
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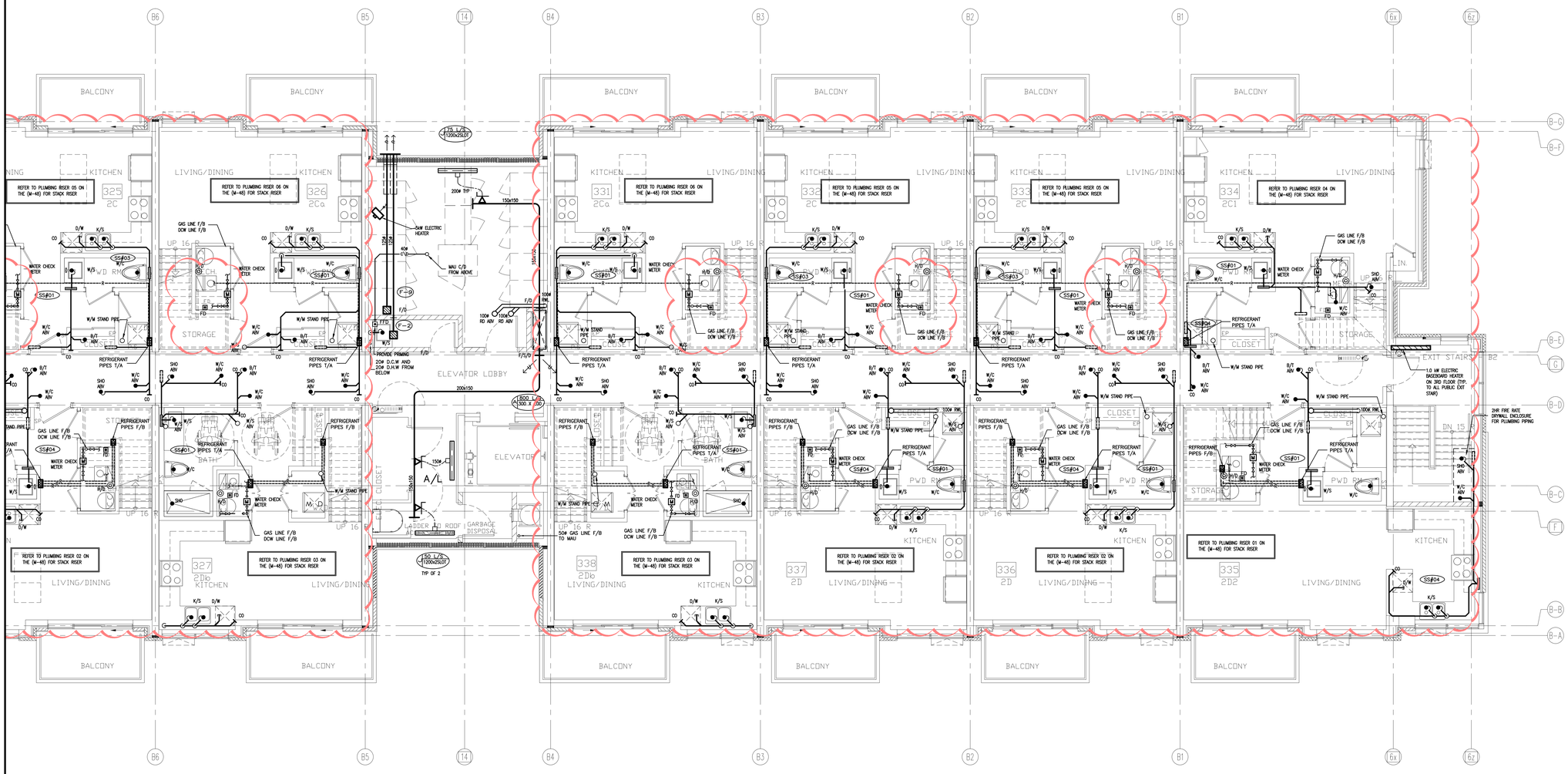
TITLE
BLOCK 'B'
3RD FLOOR - HVAC 1

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-29A
		OF -



NO.	BY	DESCRIPTION	DATE
14	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
13	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
12	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
11	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
10	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
09	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
08	LB	ISSUED AS PER SITE INSTRUCTION M-01	APR. 28, 2021
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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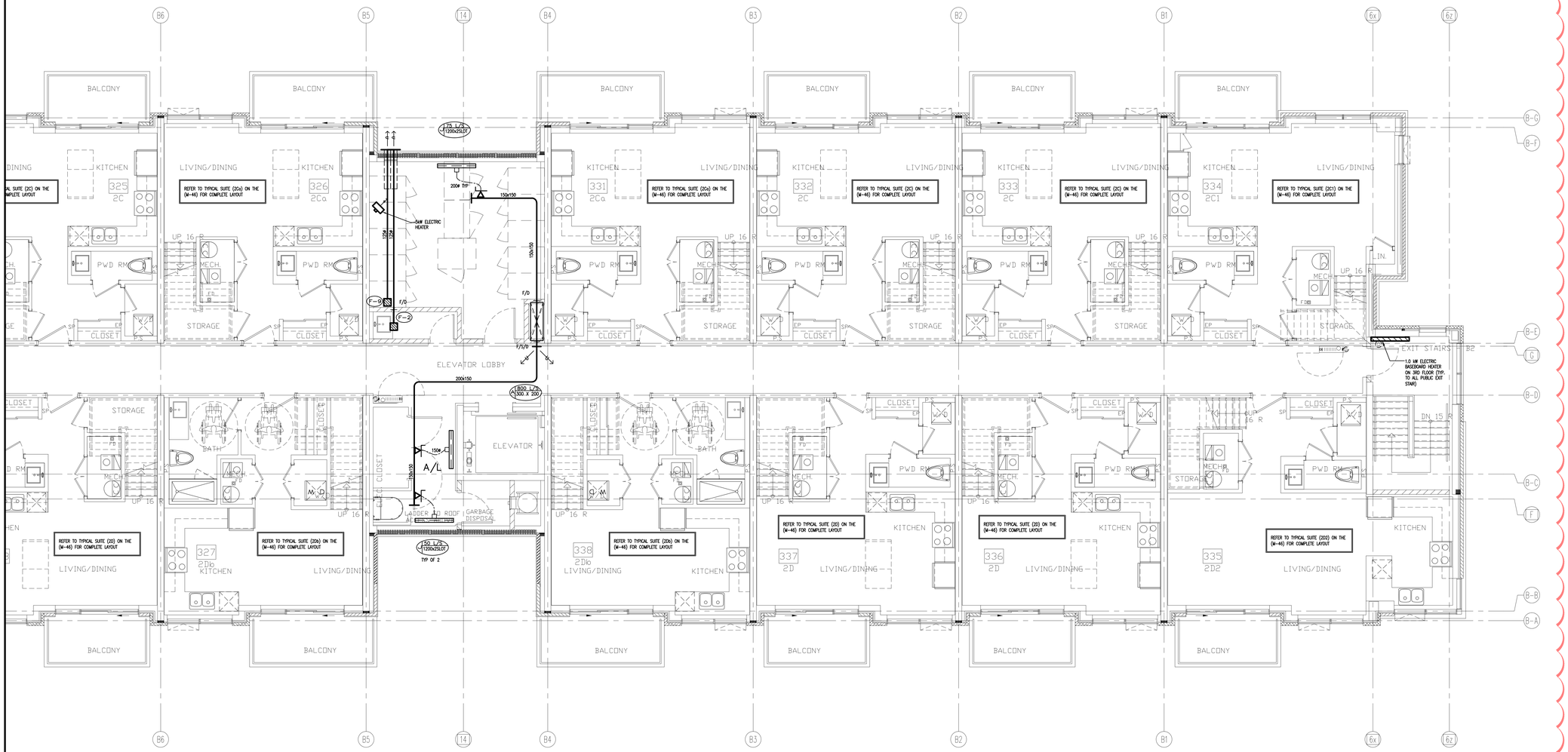
LICENCED PROFESSIONAL ENGINEER
Y. HOU
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TITLE
BLOCK 'B'
3RD FLOOR - PLUMBING/SANITARY

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-30
		OF -



NO.	BY	DESCRIPTION	DATE
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 22, 2021

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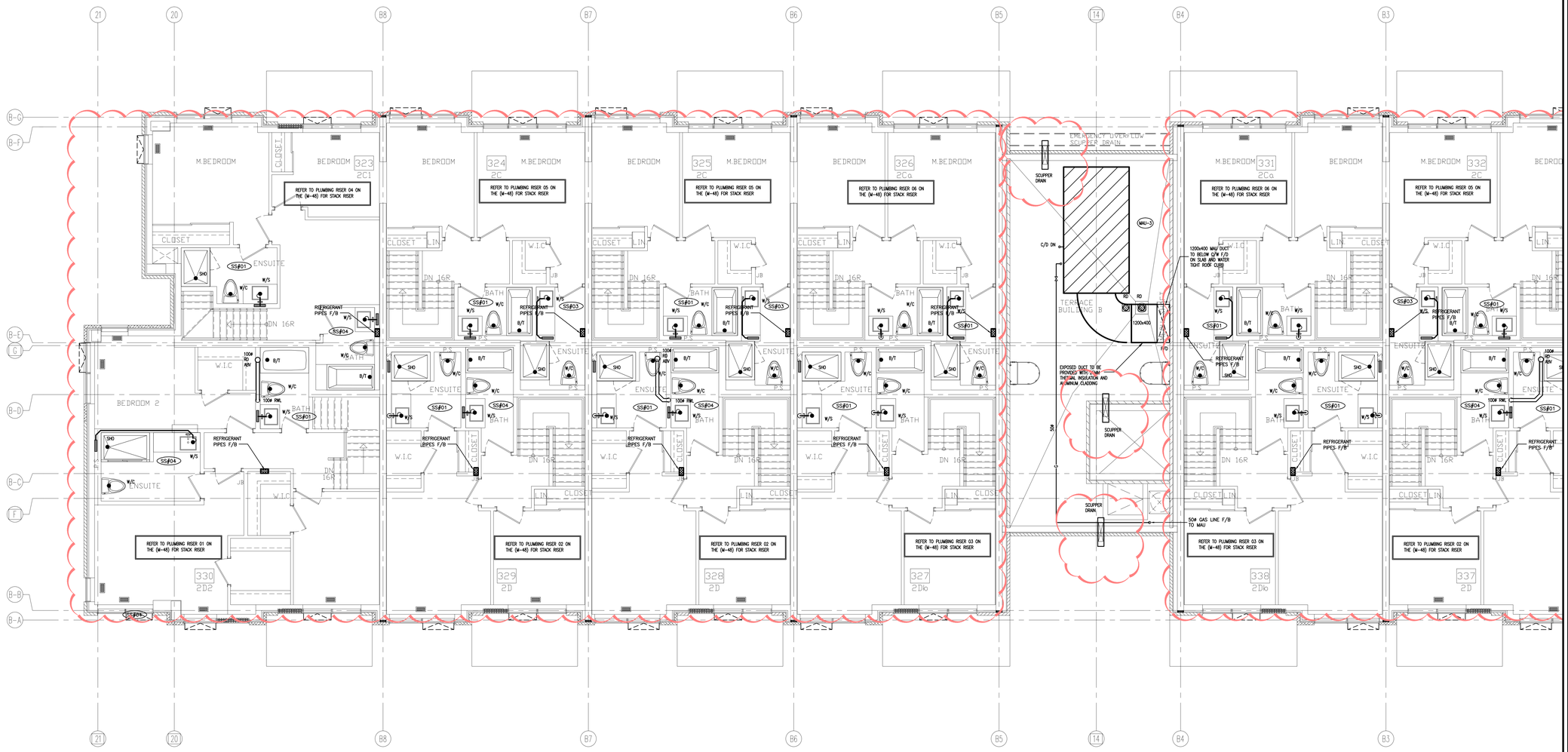
LICENCED PROFESSIONAL ENGINEER
Y. HOU
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Mechanical Electrical Consulting Engineers
3645 Keele Street, Suite 105,
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Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE
BLOCK 'B'
3RD FLOOR - HVAC 2

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-30A
		OF -



NO.	BY	DESCRIPTION	DATE
14	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
13	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
12	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
11	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
10	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
09	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
08	LB	ISSUED AS PER SITE INSTRUCTION M-01	APR. 28, 2021
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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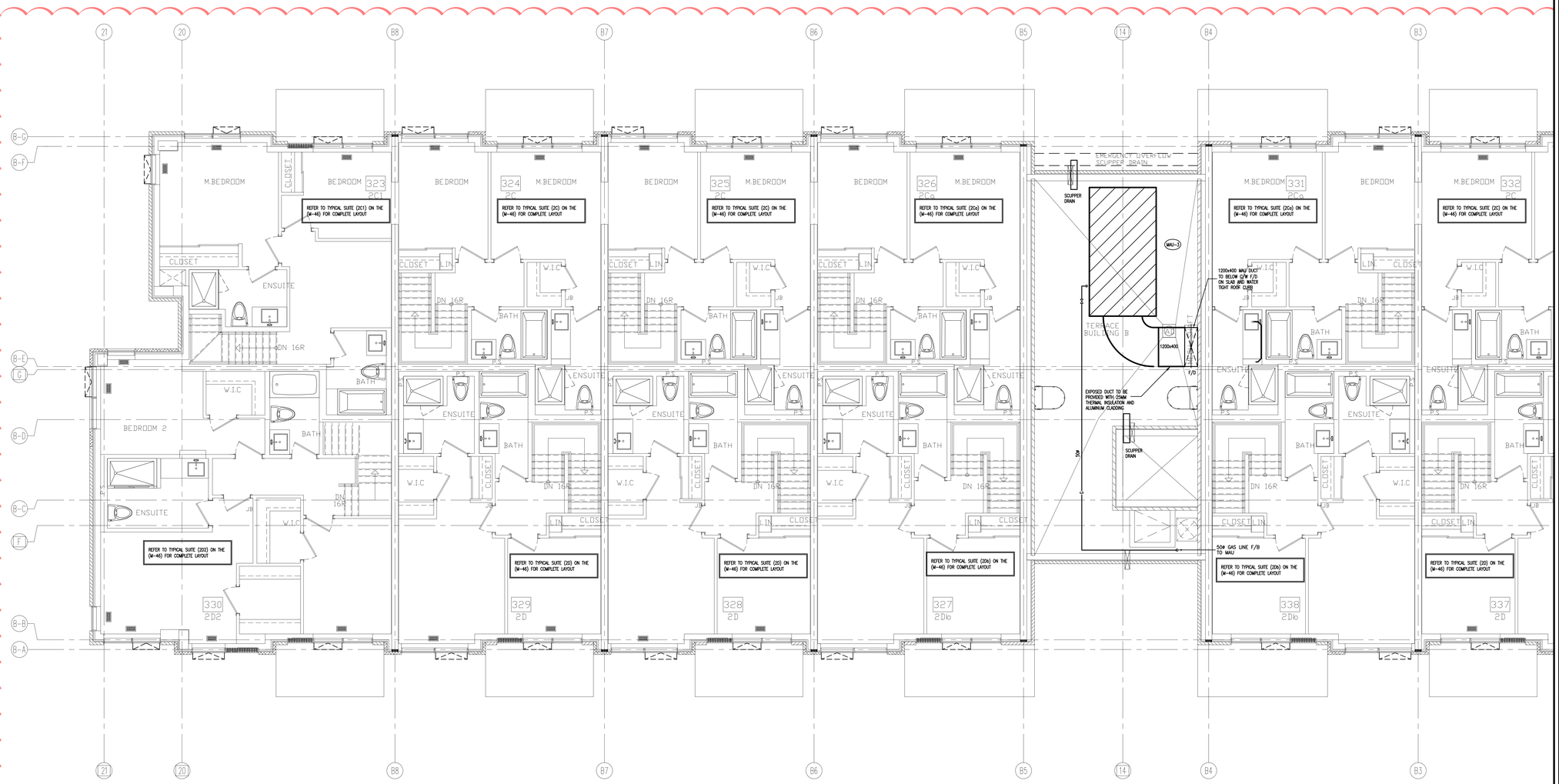
LICENCE PROFESSIONAL ENGINEER
Y. HOU
100117097
PROVINCE OF ONTARIO

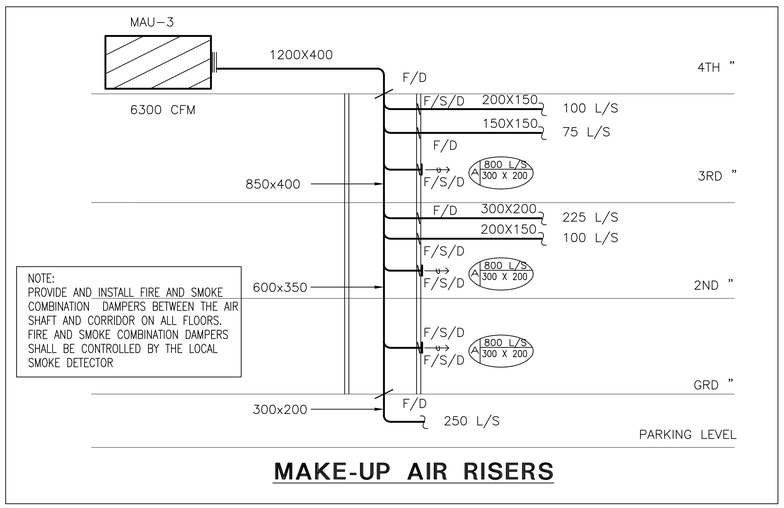
UNITED ENGINEERING INC.
Mechanical Electrical Consulting Engineers
3645 Keele Street, Suite 105,
Toronto, Ontario, M3J 1M6
Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE
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 -





MAKE-UP AIR RISERS

NO.	BY	DESCRIPTION	DATE
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 22, 2021

REVISIONS

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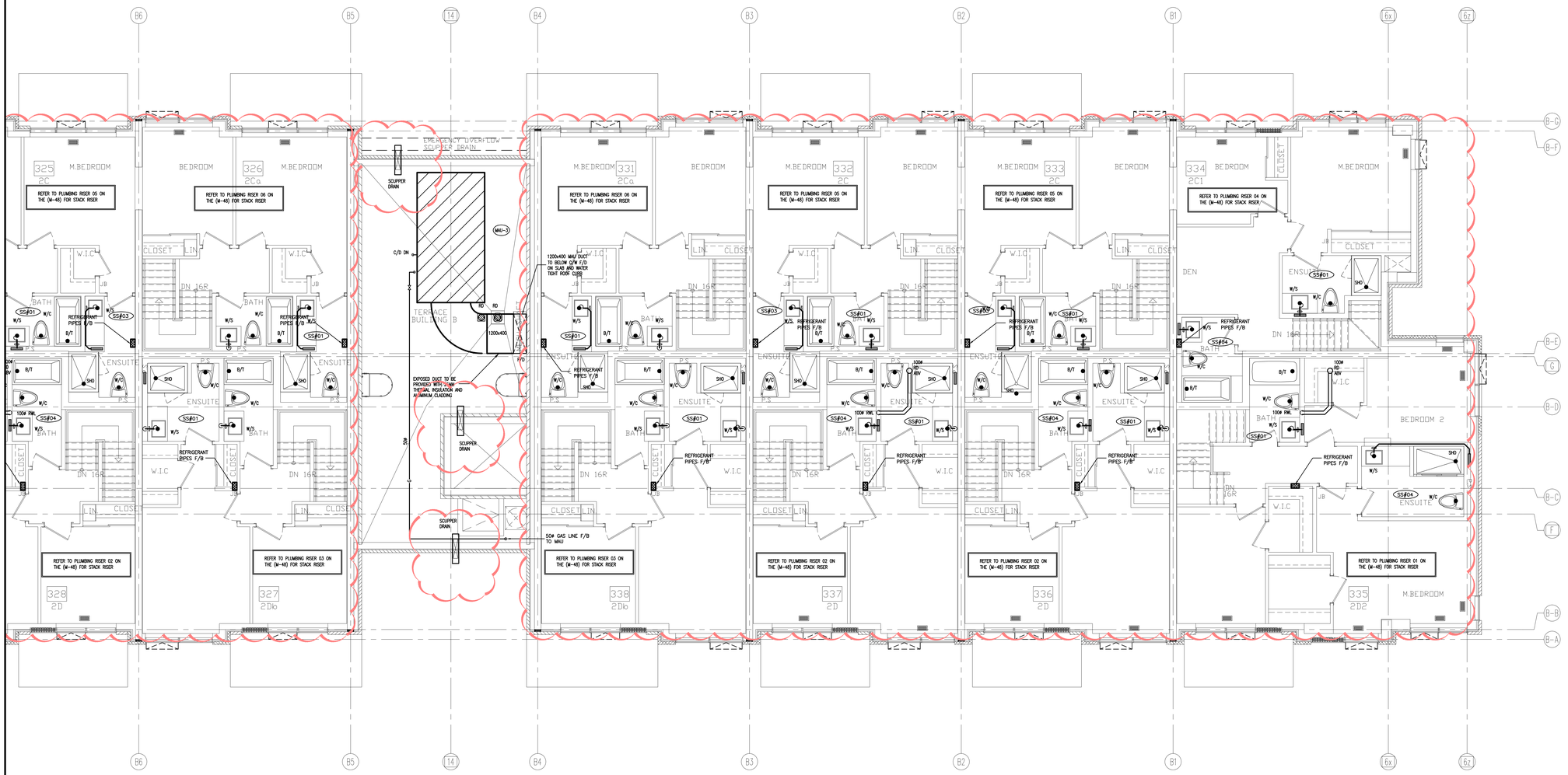
LICENCE PROFESSIONAL ENGINEER Y. HOU 100117097 PROVINCE OF ONTARIO

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
BLOCK 'B'
4TH FLOOR - HVAC 1

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-31A
		OF -



NO.	BY	DESCRIPTION	DATE
12	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
11	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
10	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
09	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
08	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
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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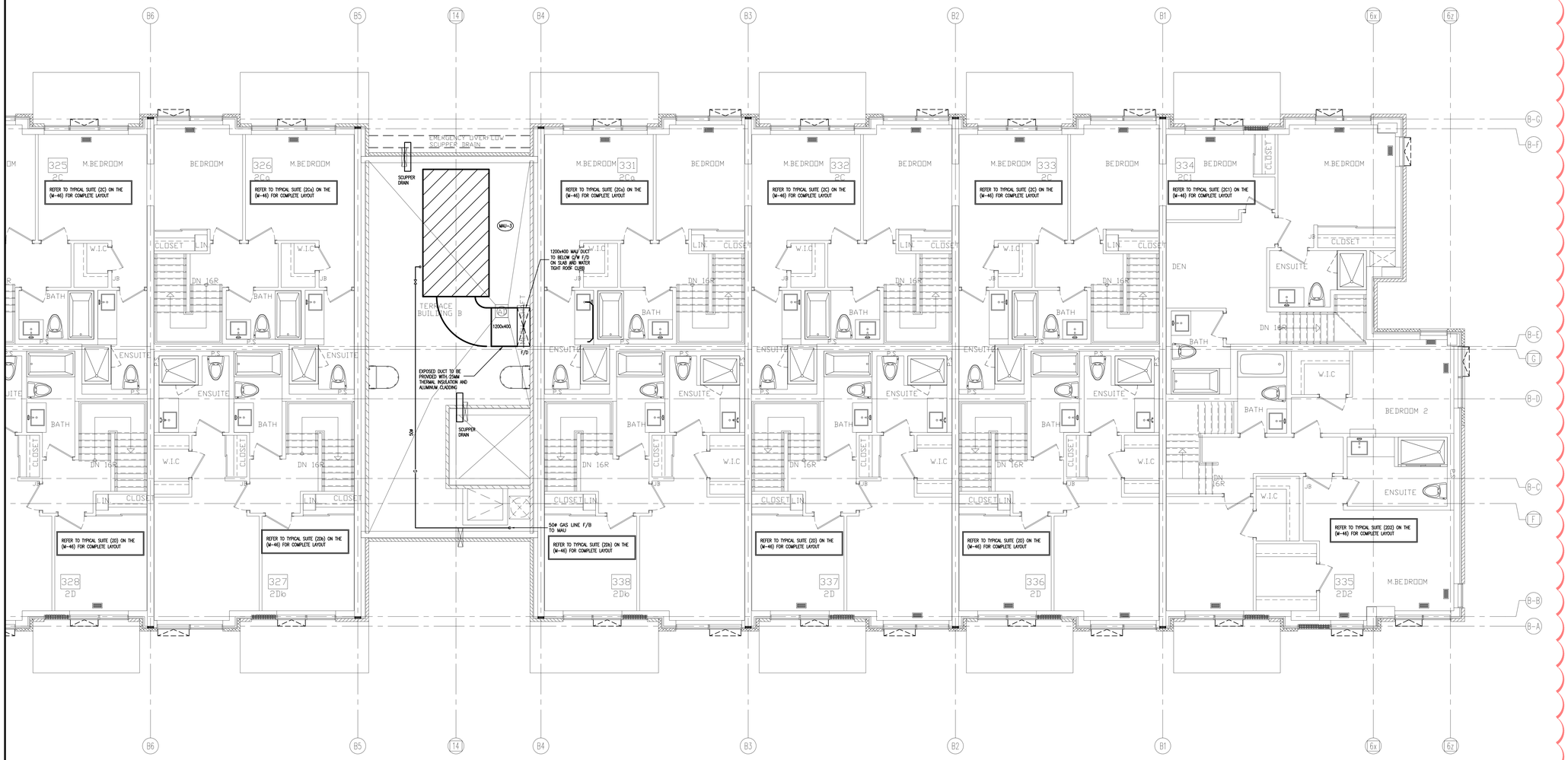
LICENCE PROFESSIONAL ENGINEER
Y. HOU
100117097
PROVINCE OF ONTARIO

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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 -



NO.	BY	DESCRIPTION	DATE
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 22, 2021

REVISIONS

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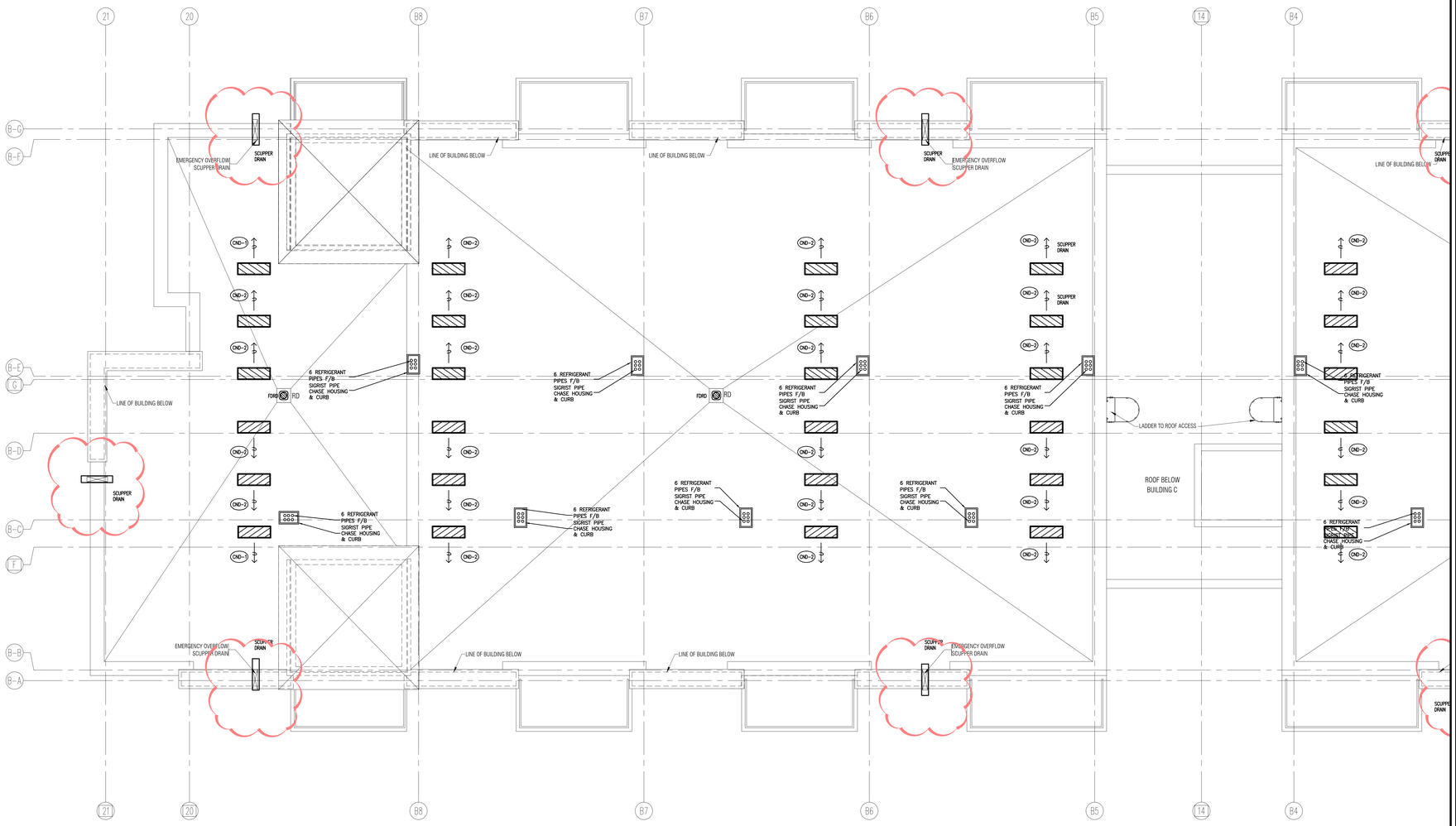
LICENCE PROFESSIONAL ENGINEER
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Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE
BLOCK 'B'
3RD FLOOR - HVAC 2

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-32A
		OF -



NO.	BY	DESCRIPTION	DATE
11	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
10	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
09	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
08	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
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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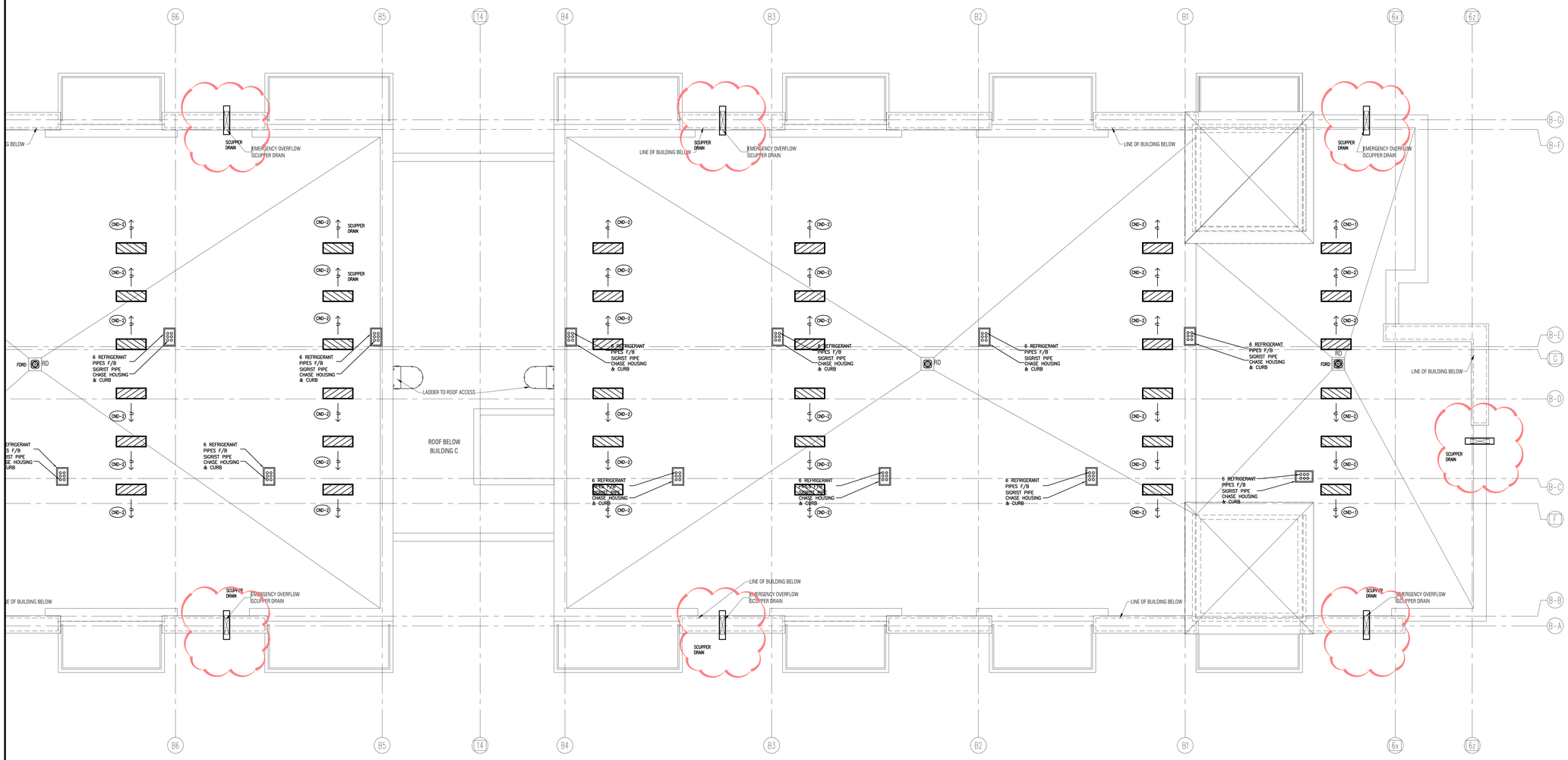
TITLE
BLOCK 'B'
ROOF - PLUMBING/SANITARY

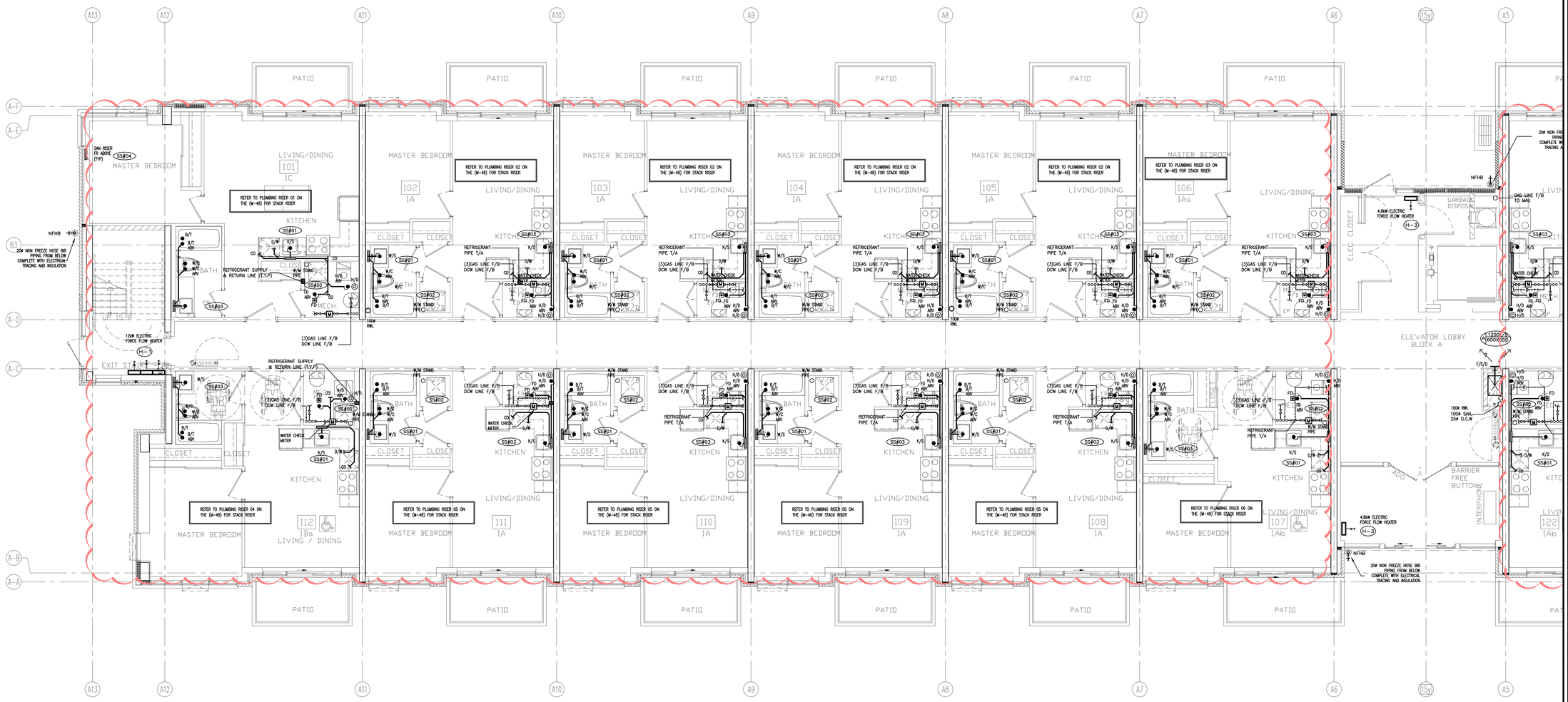
PROJECT

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 -


B6
B5
14
B4
B3
B2
B1
6x
6z
B-G
B-F
B-E
G
B-D
B-C
F
B-B
B-A
SCUPPER DRAIN
EMERGENCY OVERFLOW SCUPPER DRAIN
LINE OF BUILDING BELOW
LADDER TO ROOF ACCESS
ROOF BELOW BUILDING C
RD
FDRD
6 REFRIGERANT PIPES F/B SIGRIST PIPE CHASE HOUSING & CURB



NO.	BY	DESCRIPTION	DATE
12	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
11	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
10	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
09	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
08	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
07	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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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LICENCED PROFESSIONAL ENGINEER
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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
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 22, 2021

REVISIONS

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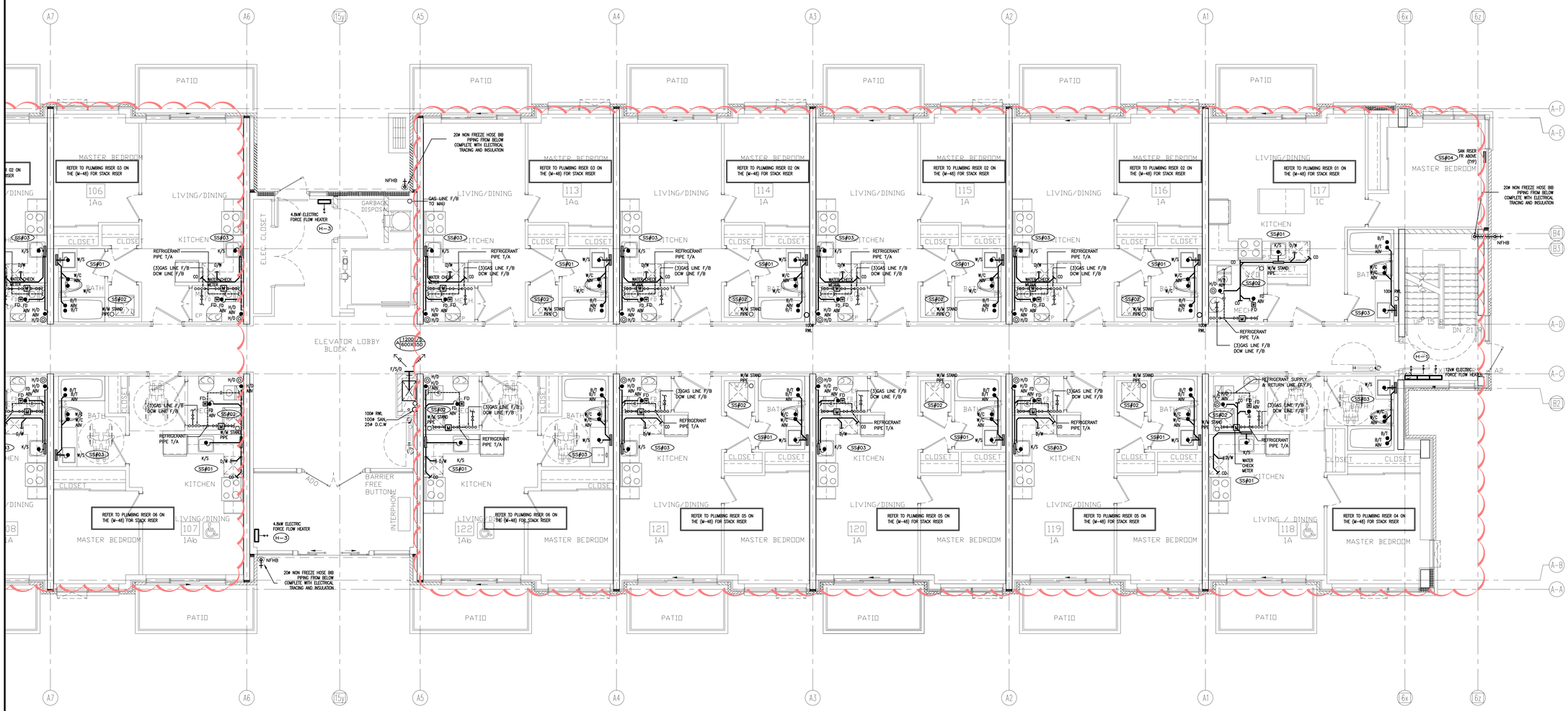
LICENCE OF ONTARIO — LICENSED PROFESSIONAL ENGINEER — Y. HOU — 100117087

UNITED ENGINEERING INC.
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TITLE
BLOCK 'A'
GROUND FLOOR - HVAC 1

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-35A
		OF -



NO.	BY	DESCRIPTION	DATE
13	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
12	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
11	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
10	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
09	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
08	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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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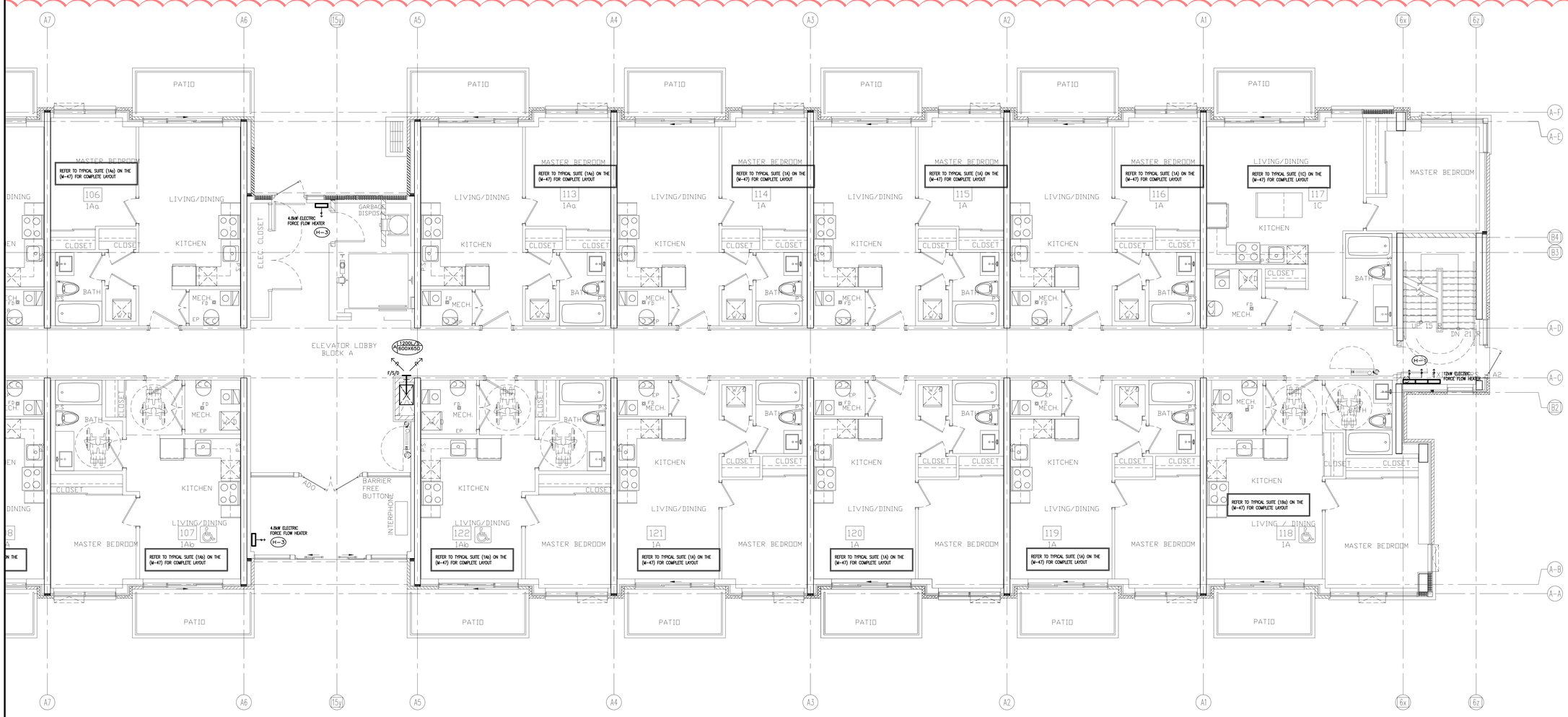
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TITLE
BLOCK 'A'
GROUND FLOOR - PLUMBING/SANITARY

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
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 22, 2021

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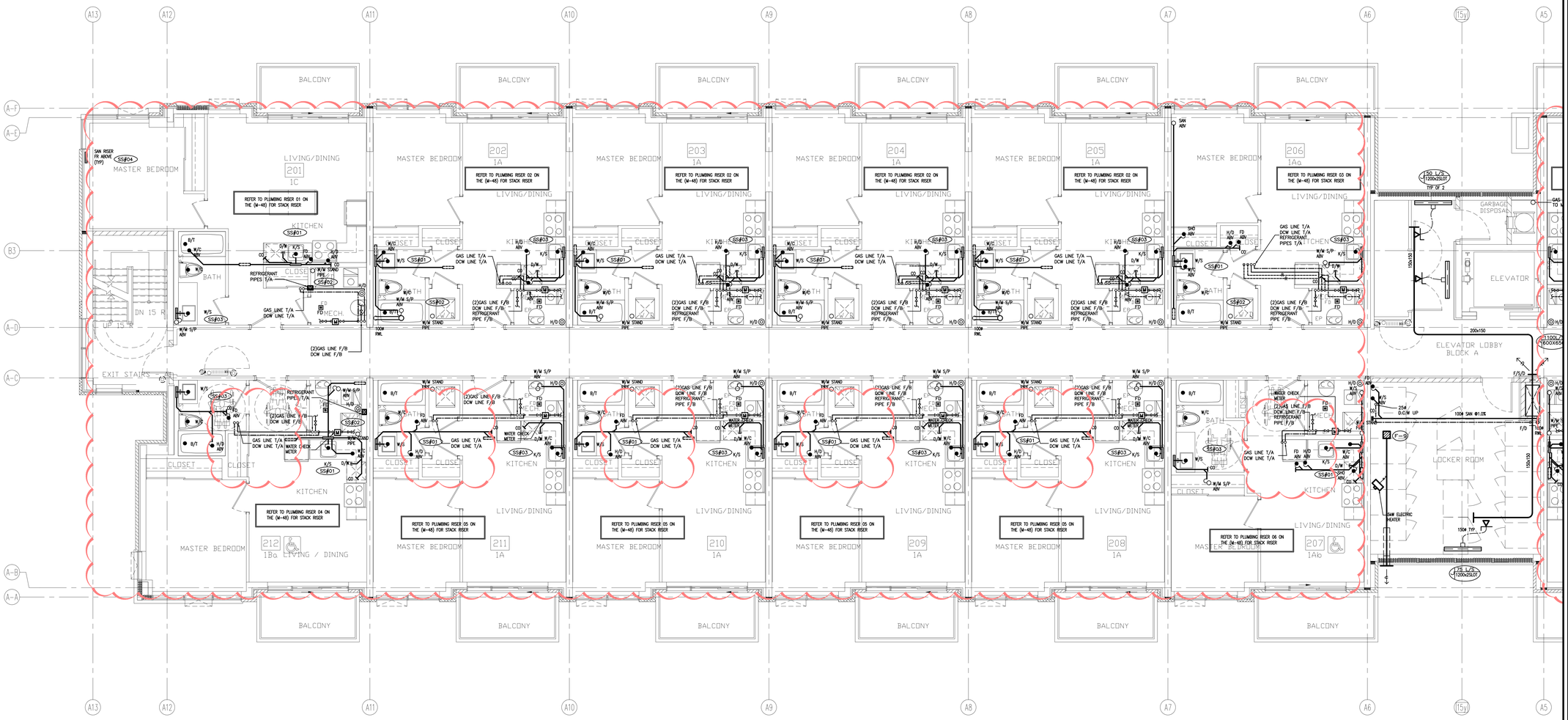
TITLE
BLOCK 'A'
GROUND FLOOR - HVAC 2

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-36A
		OF -



NO.	BY	DESCRIPTION	DATE
12	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
11	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
10	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
09	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
08	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
07	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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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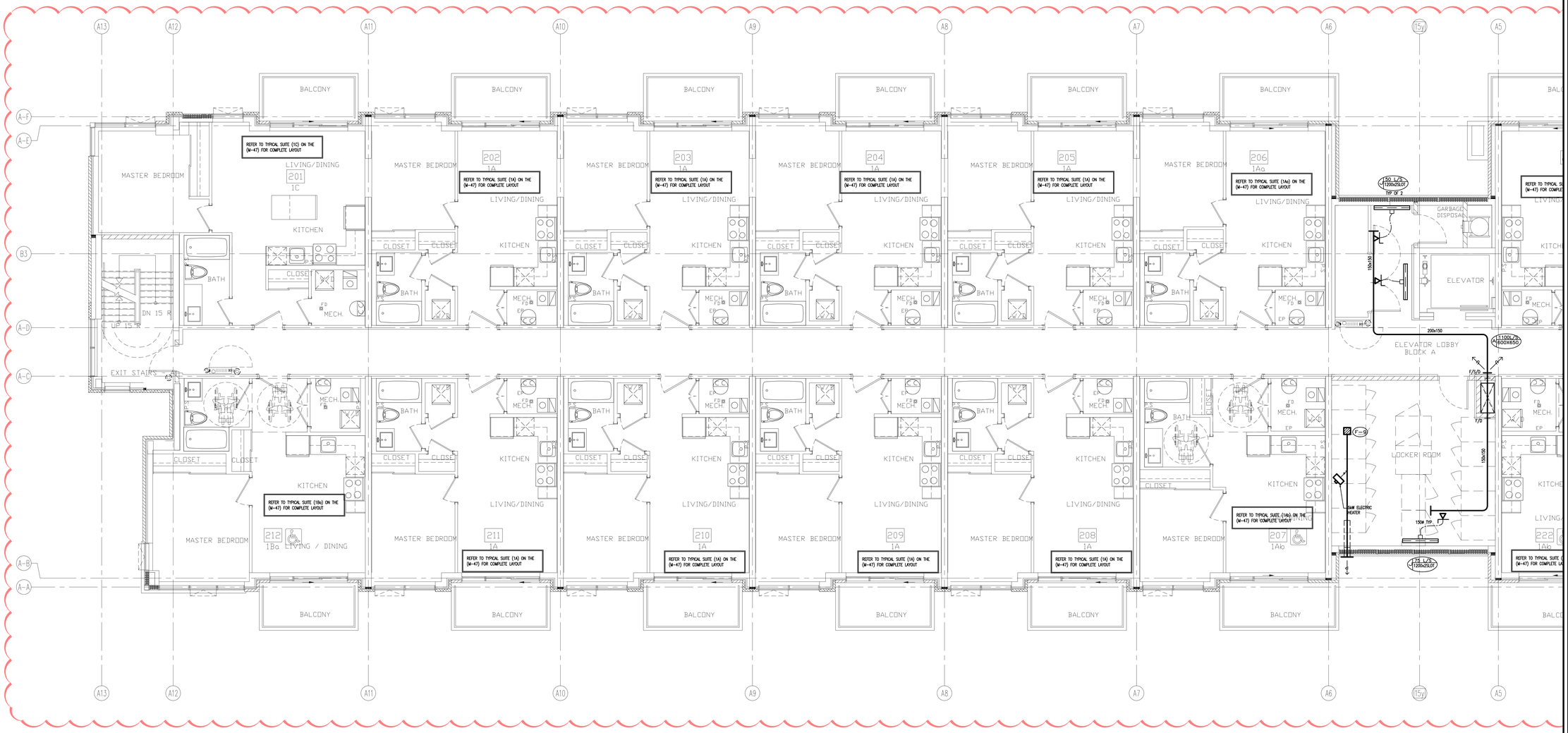
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TITLE
BLOCK 'A'
2ND FLOOR - PLUMBING/SANITARY

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
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 22, 2021

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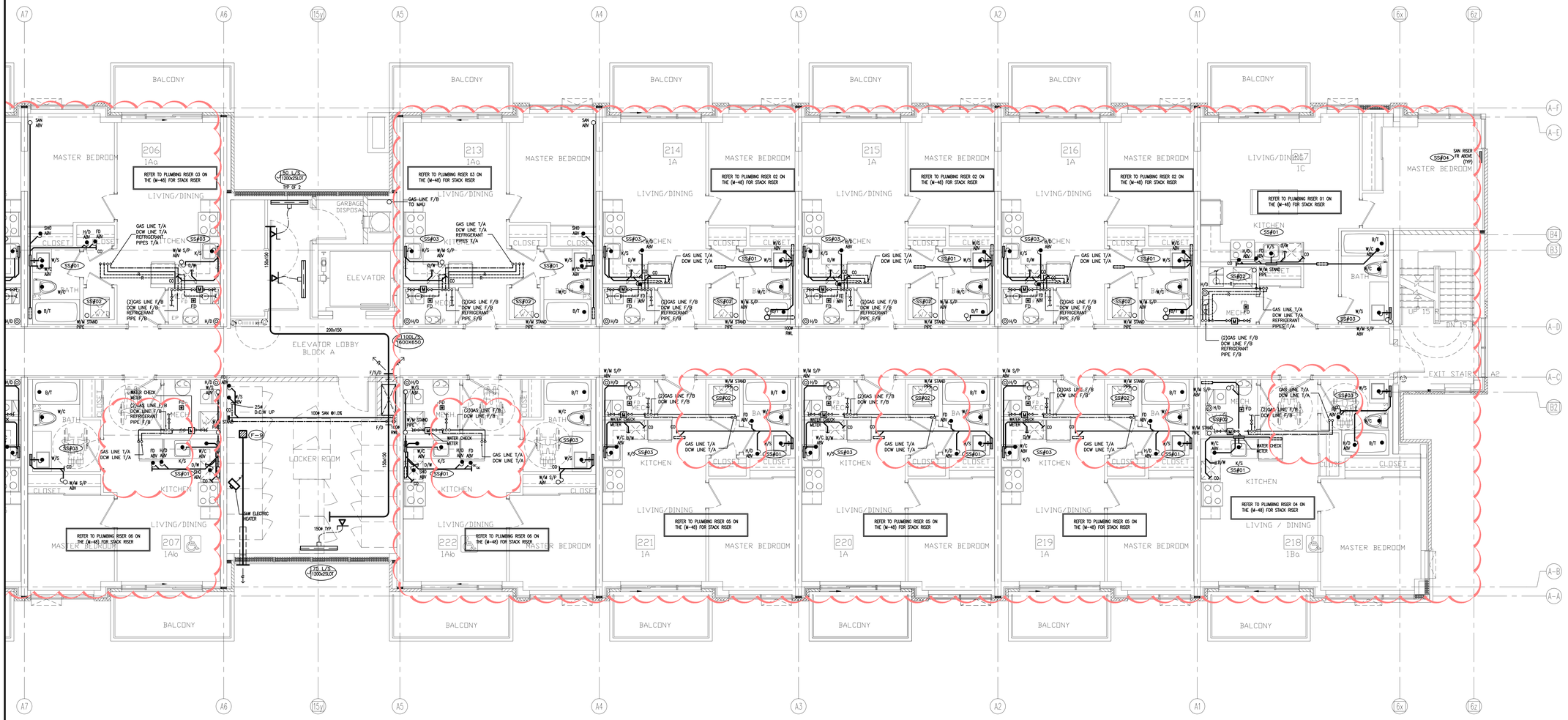
TITLE
BLOCK 'A'
2ND FLOOR - HVAC 1

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-37A
		OF -



NO.	BY	DESCRIPTION	DATE
13	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
12	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
11	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
10	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
09	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
08	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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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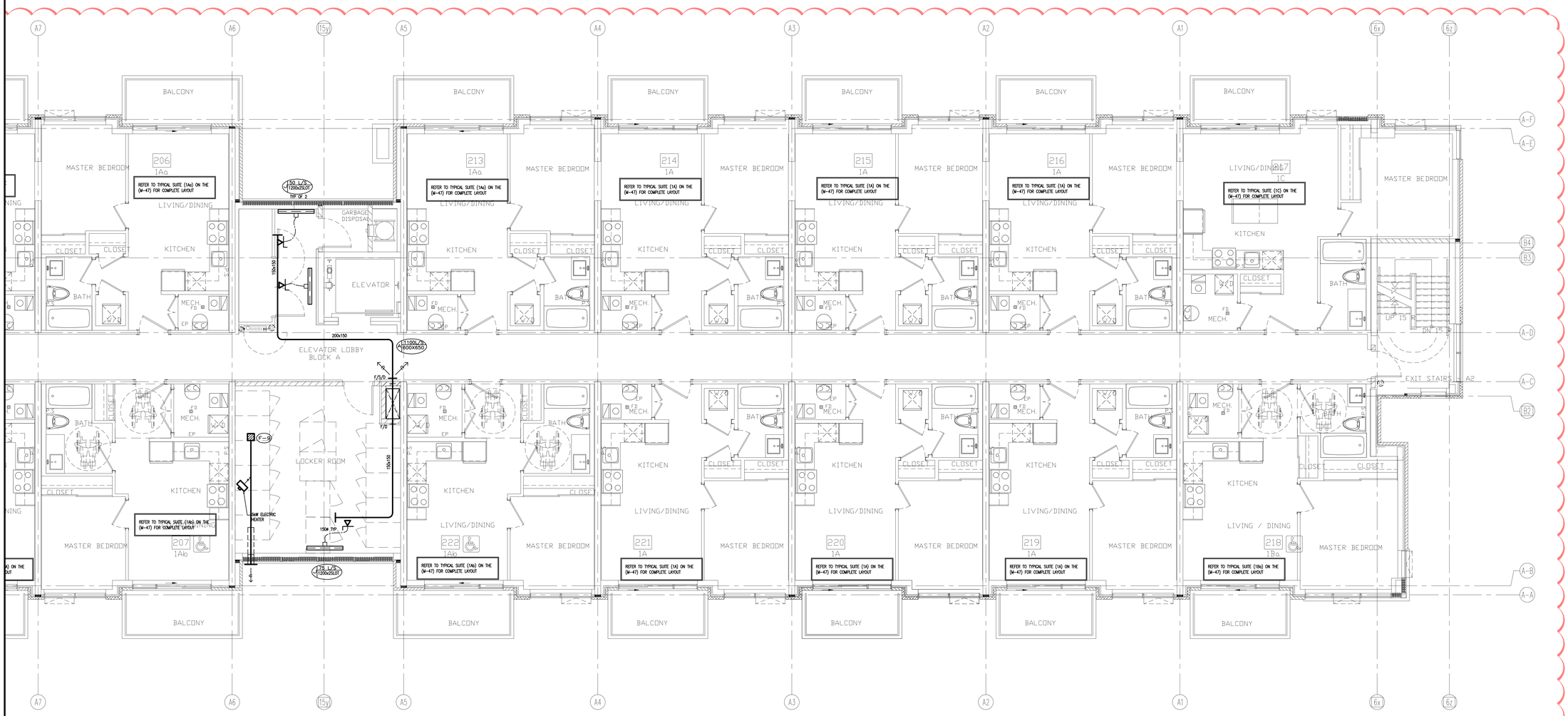
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TITLE
BLOCK 'A'
2ND FLOOR - PLUMBING/SANITARY

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
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 22, 2021

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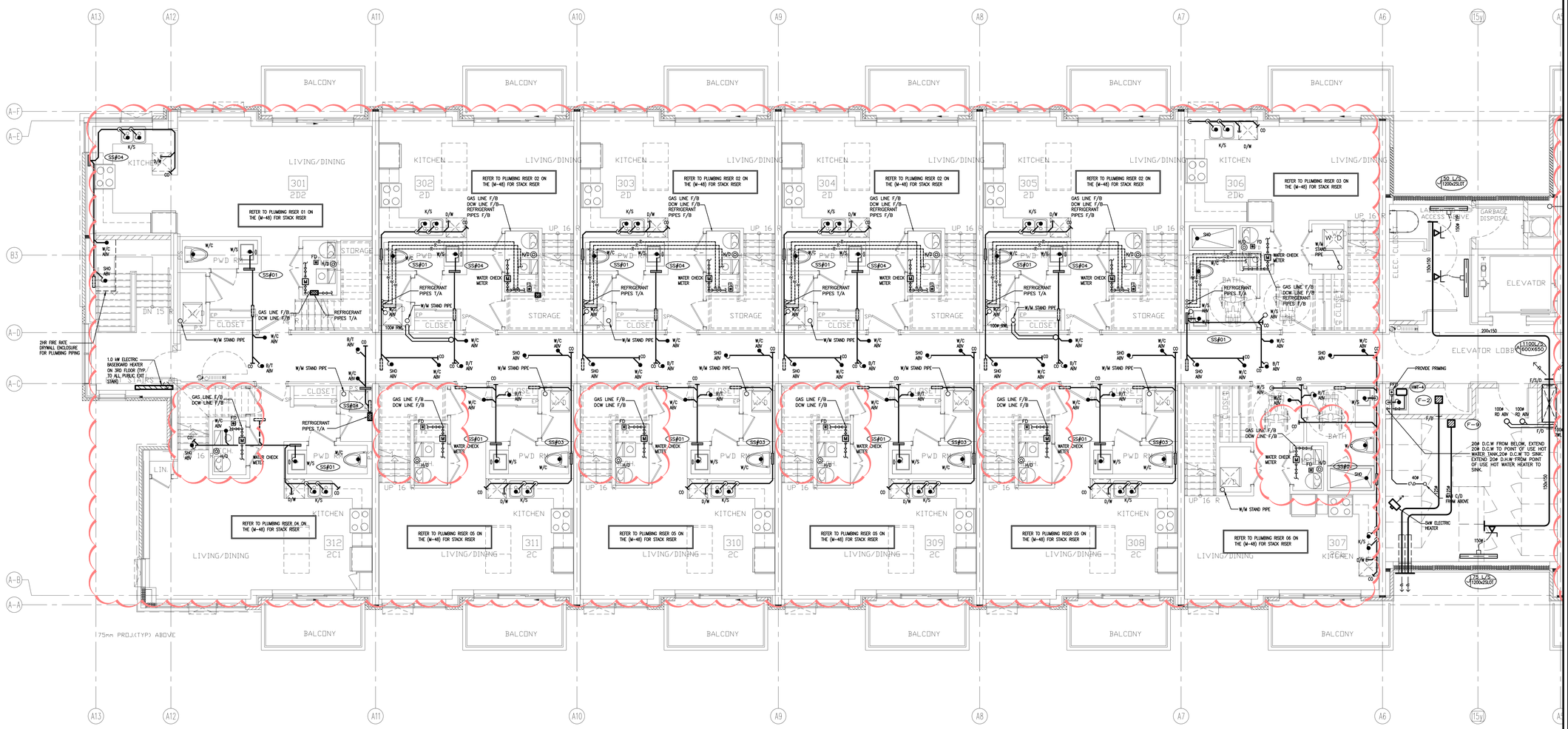
TITLE
BLOCK 'A'
2ND FLOOR - HVAC 2

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-38A
		OF -



NO.	BY	DESCRIPTION	DATE
12	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
11	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
10	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
09	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
08	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
07	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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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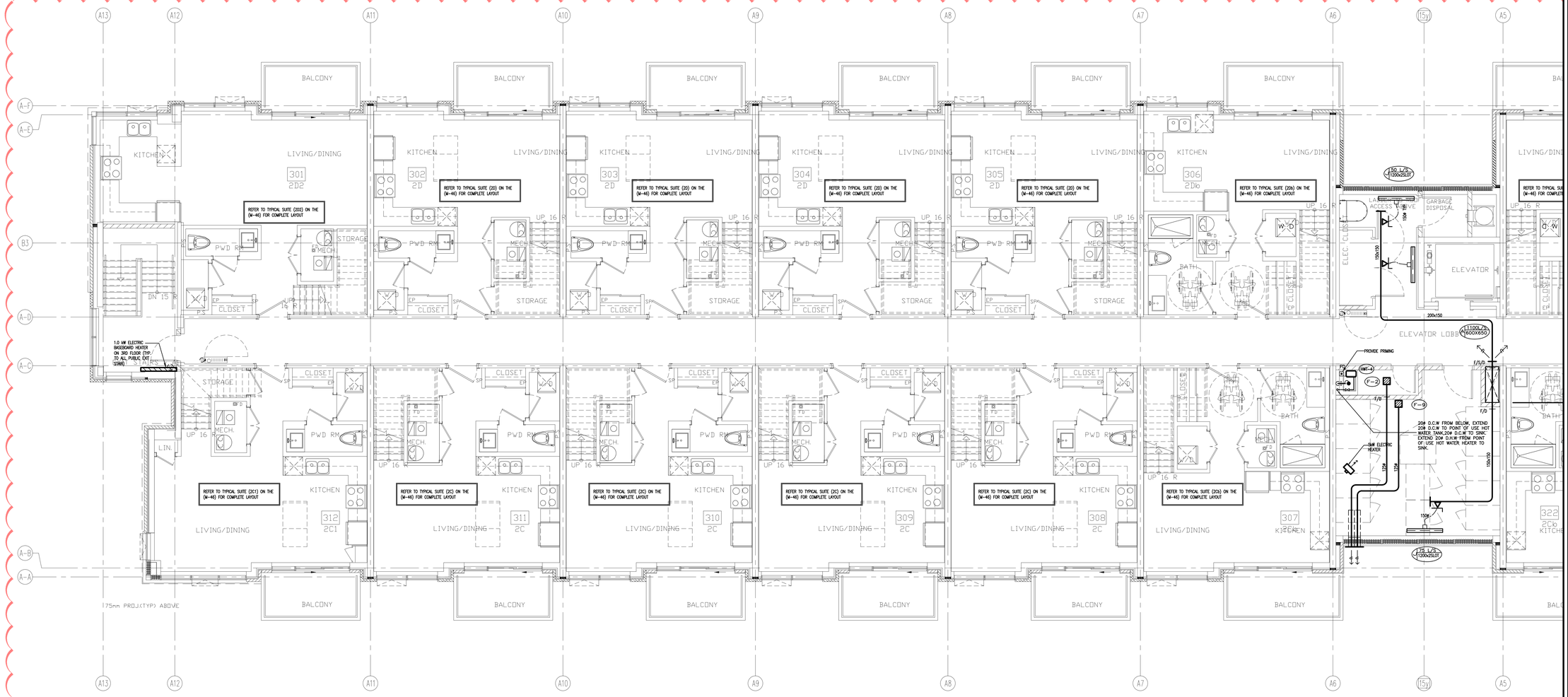
LICENCED PROFESSIONAL ENGINEER
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Tel: (416) 398 1999, Fax: (416) 398 1933

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
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 22, 2021

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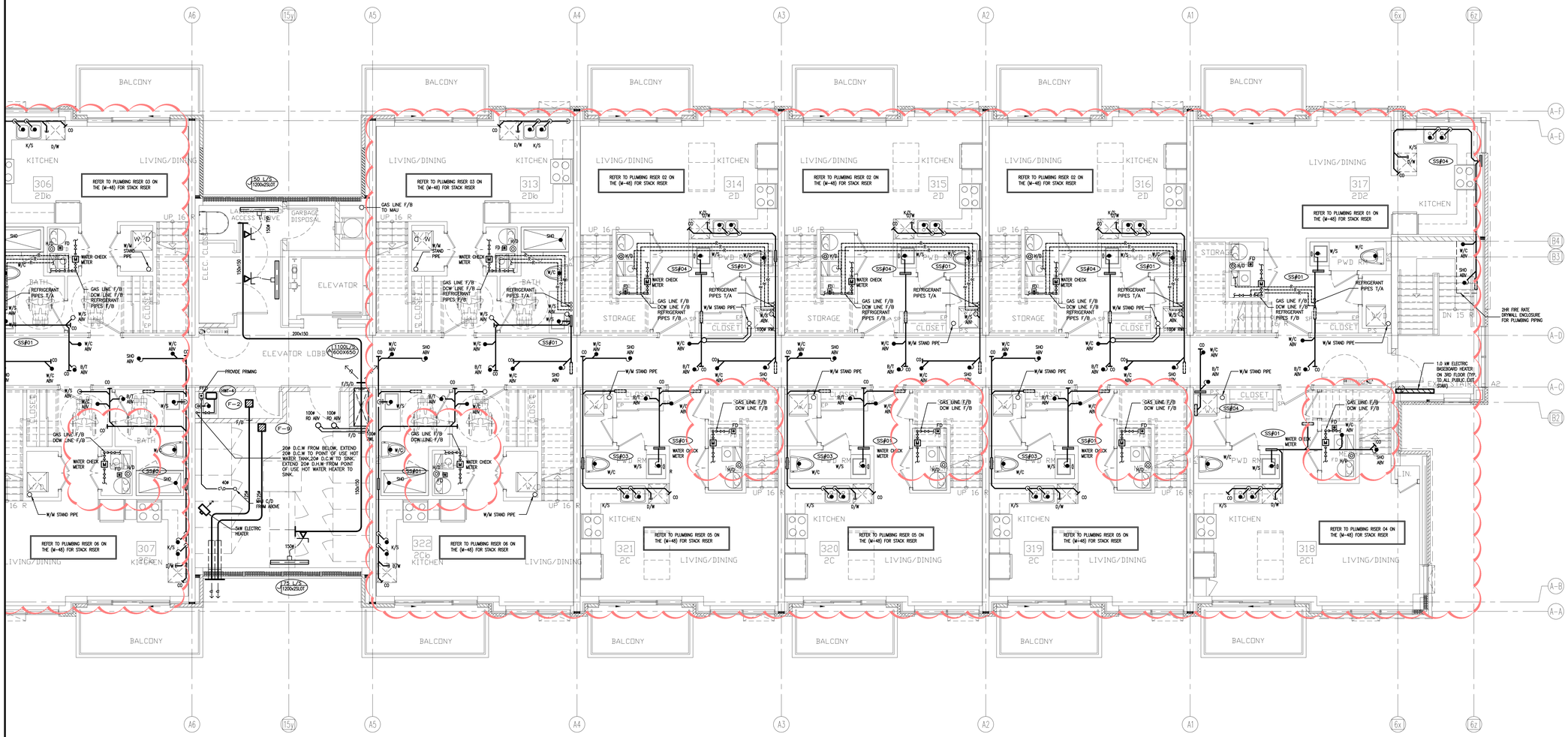
LICENCED PROFESSIONAL ENGINEER
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TITLE
BLOCK 'A'
3RD FLOOR - HVAC 1

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-39A
		OF -



NO.	BY	DESCRIPTION	DATE
13	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
12	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
11	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
10	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
09	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
08	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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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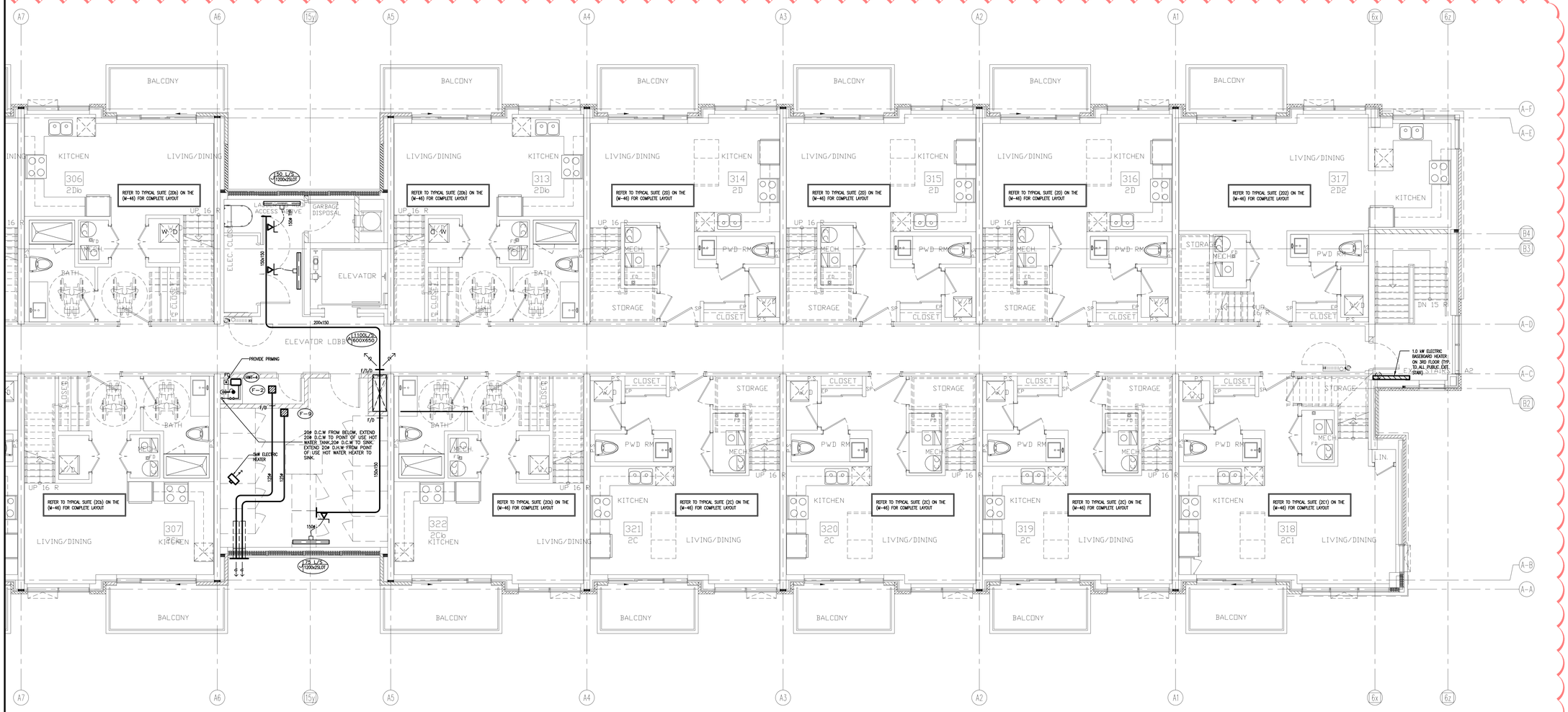
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TITLE
BLOCK 'A'
3RD FLOOR - PLUMBING/SANITARY

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 -



NO.	BY	DESCRIPTION	DATE
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 22, 2021

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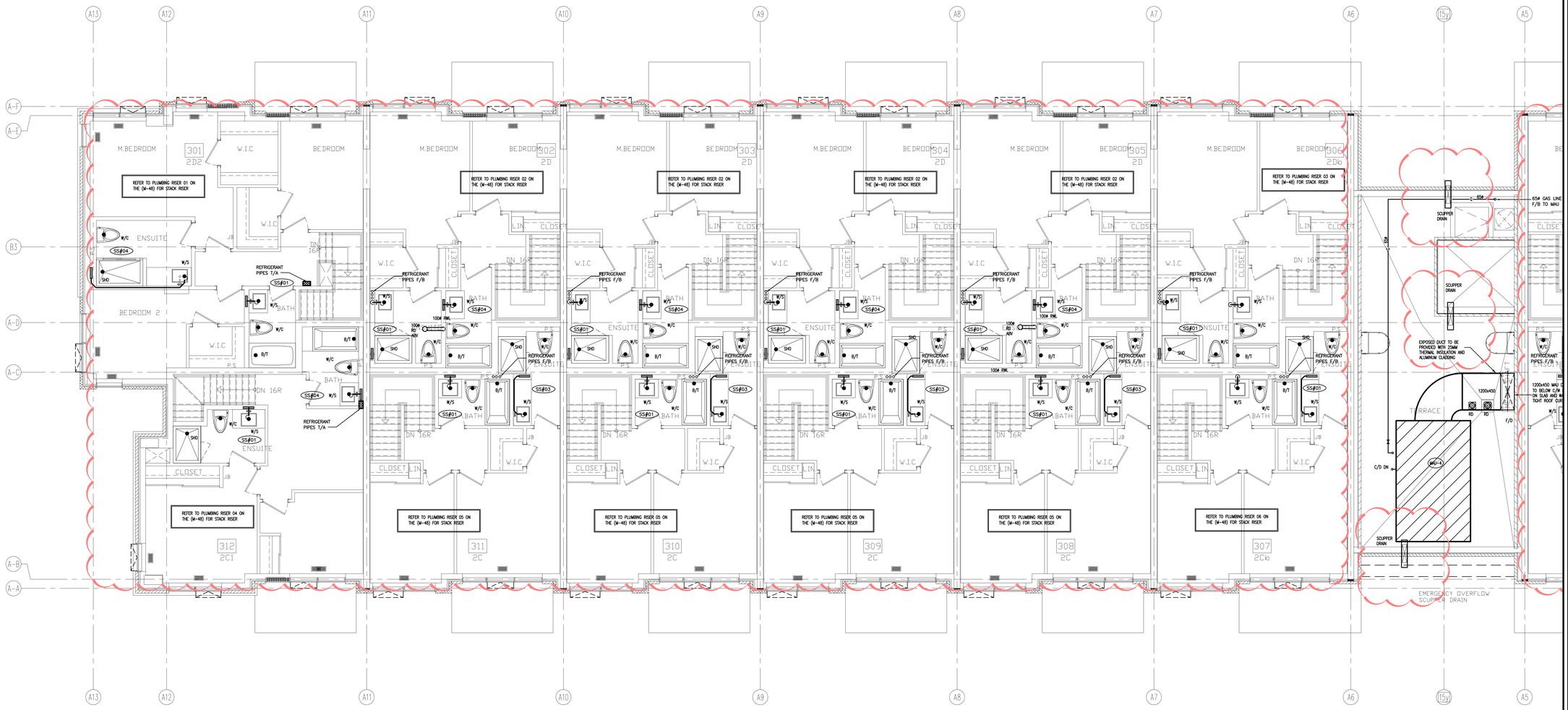
TITLE
BLOCK 'A'
3RD FLOOR - HVAC 2

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-40A
		OF -



NO.	BY	DESCRIPTION	DATE
		REVISIONS	
14	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
13	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
12	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
11	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
10	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION#2	JUN. 15, 2021
09	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
08	LB	ISSUED AS PER SITE INSTRUCTION M-01	APR. 28, 2021
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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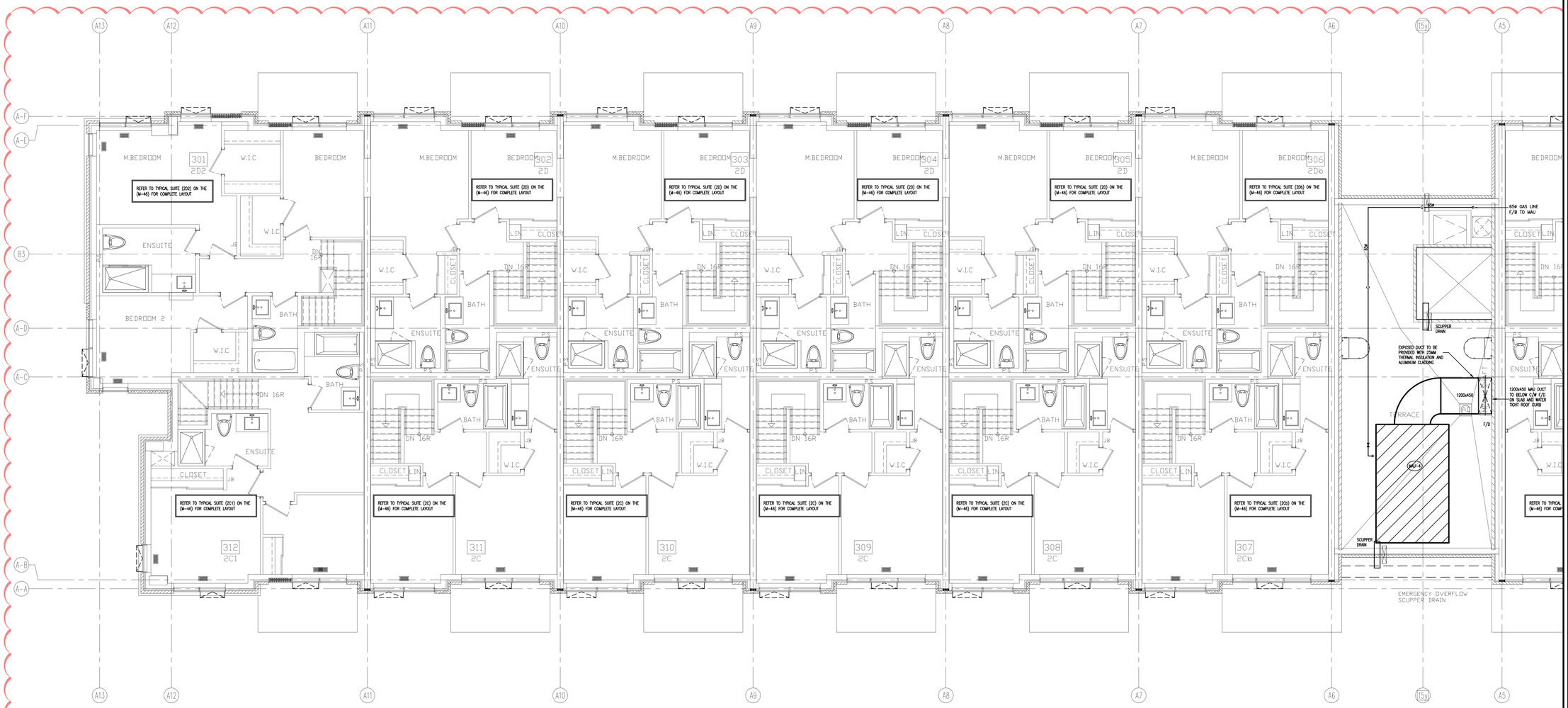
LICENCED PROFESSIONAL ENGINEER
Y. HOU
100117097
PROVINCE OF ONTARIO

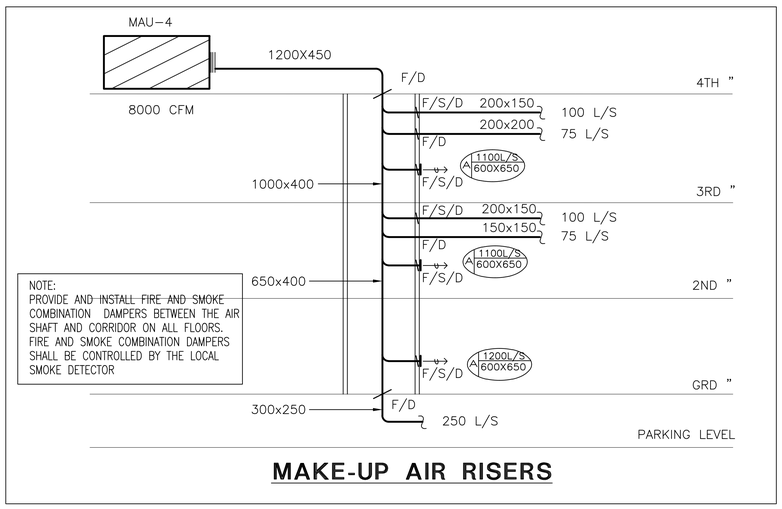
UNITED ENGINEERING INC.
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3645 Keele Street, Suite 105,
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Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE
BLOCK '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 -





MAKE-UP AIR RISERS

NO.	BY	DESCRIPTION	DATE
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 22, 2021

REVISIONS

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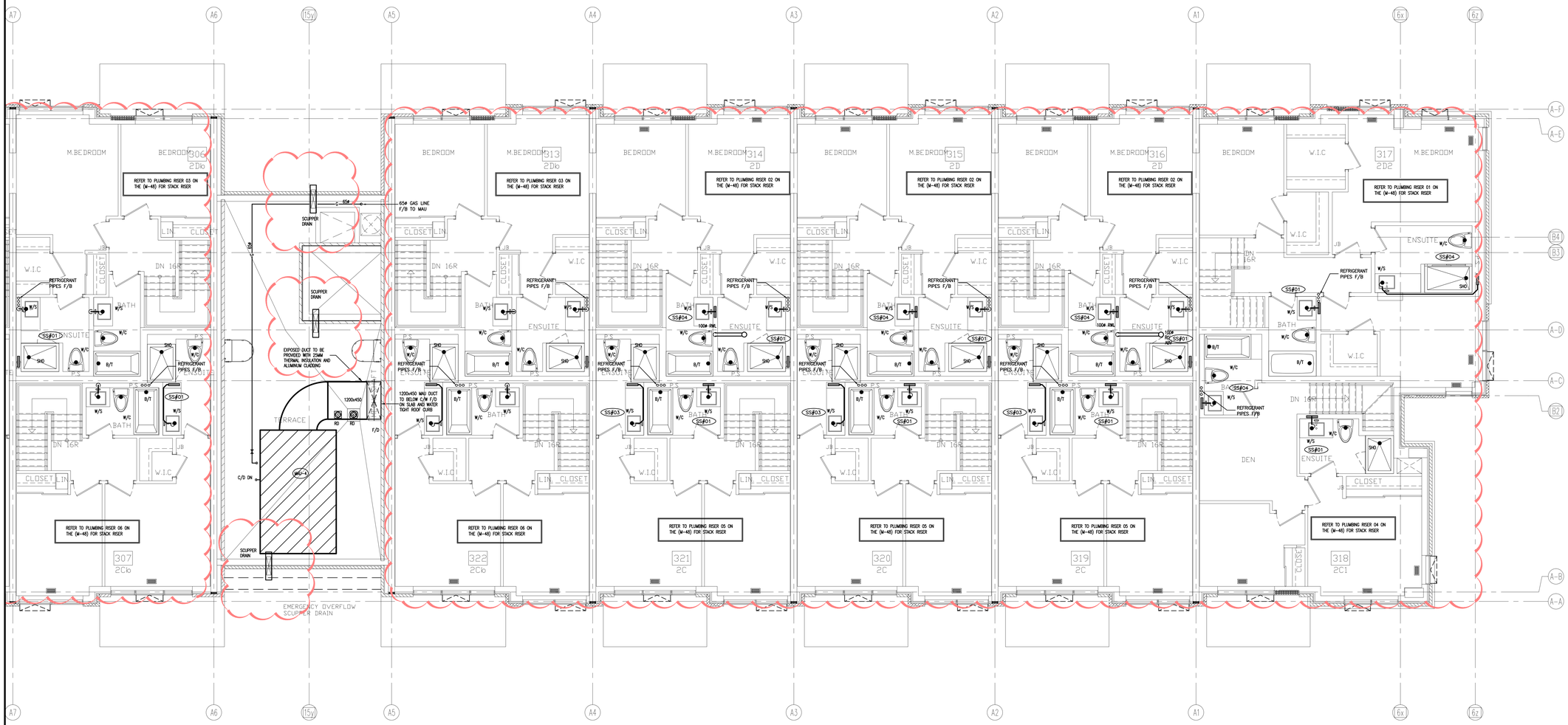
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TITLE
BLOCK 'A'
4TH FLOOR - HVAC 1

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-41A
		OF -



NO.	BY	DESCRIPTION	DATE
12	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
11	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
10	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
09	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
08	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
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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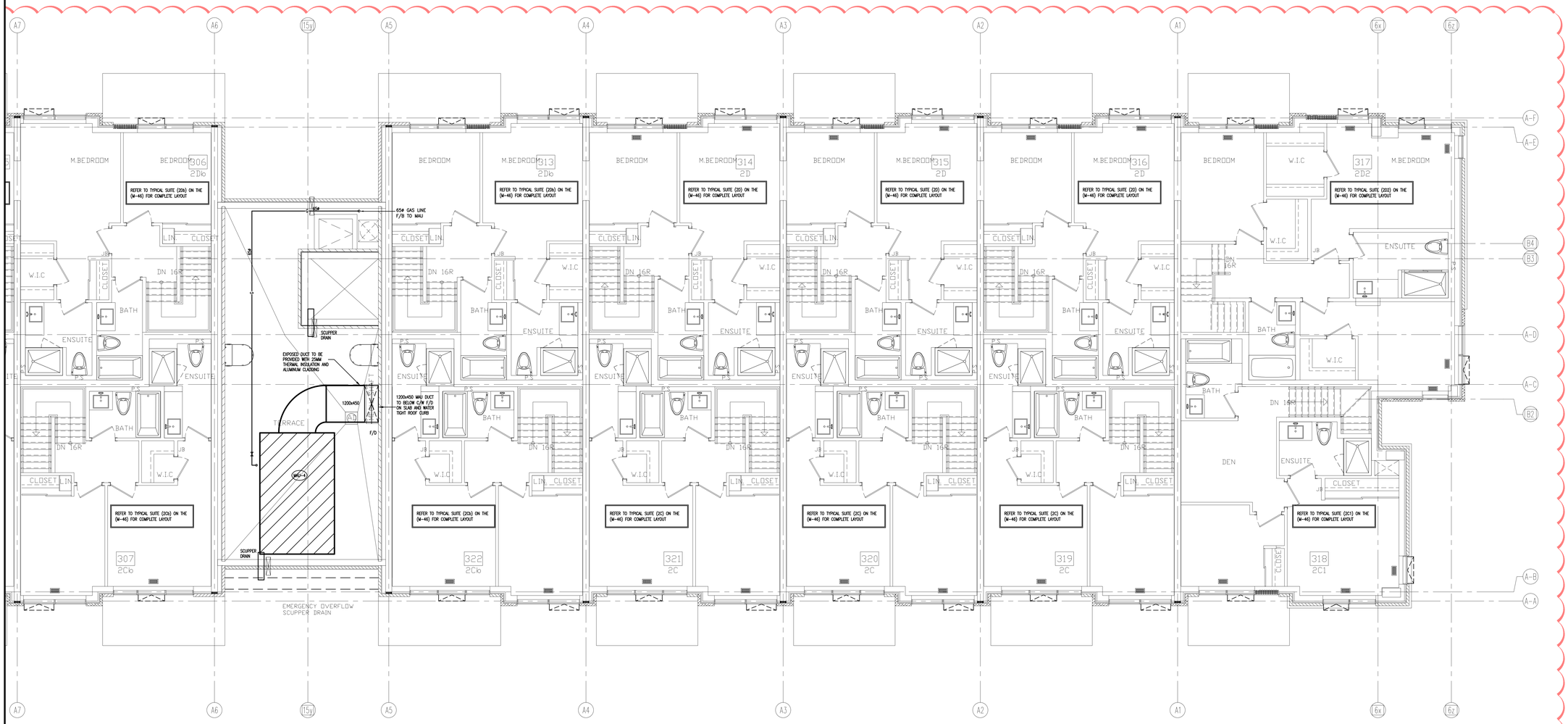
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TITLE
BLOCK 'A'
3RD FLOOR - PLUMBING/SANITARY

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 -



NO.	BY	DESCRIPTION	DATE
04	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
03	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
02	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
01	LB	ISSUED FOR CITY PERMIT	SEP. 22, 2021

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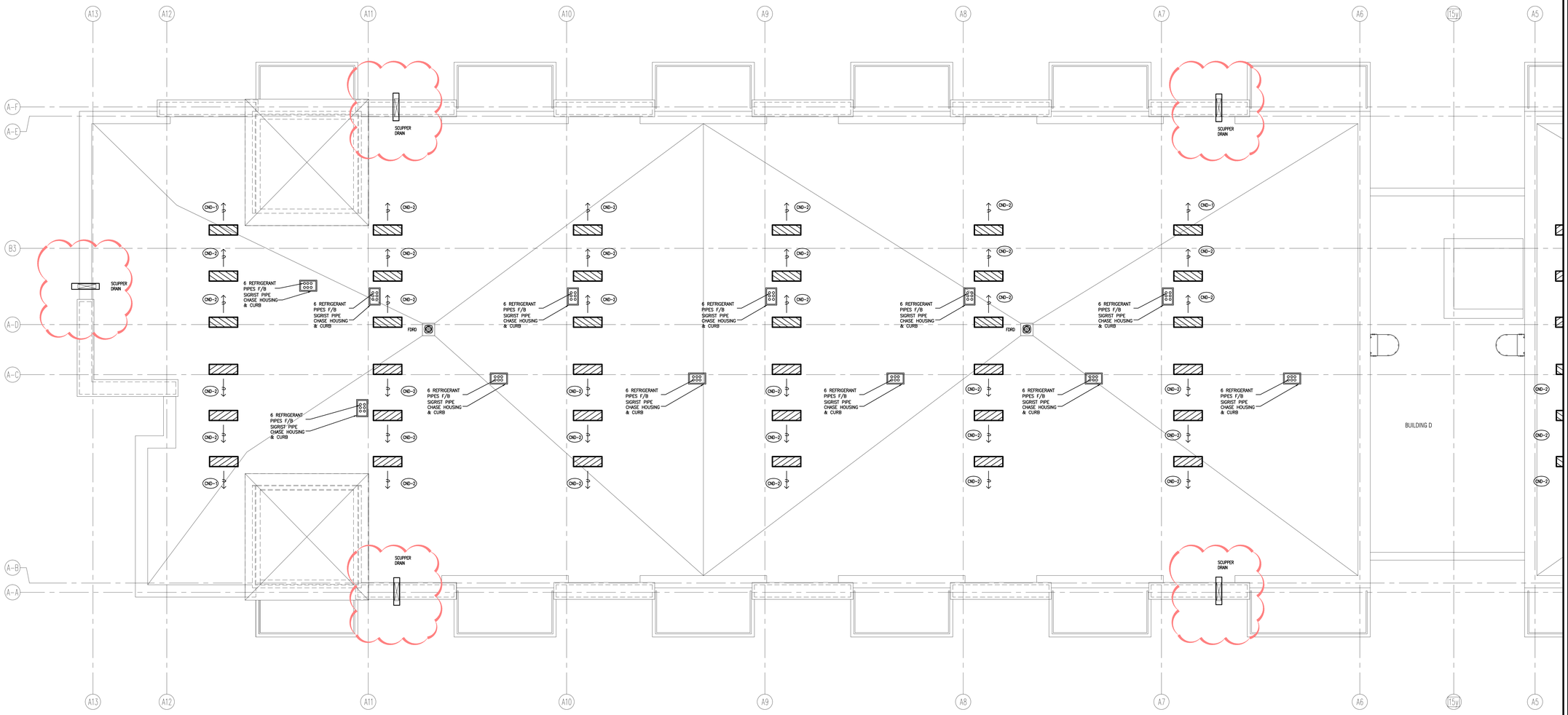
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TITLE
BLOCK 'A'
3RD FLOOR - HVAC 2

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-42A
		OF -



NO.	BY	DESCRIPTION	DATE
11	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
10	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
09	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
08	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION#2	JUN. 15, 2021
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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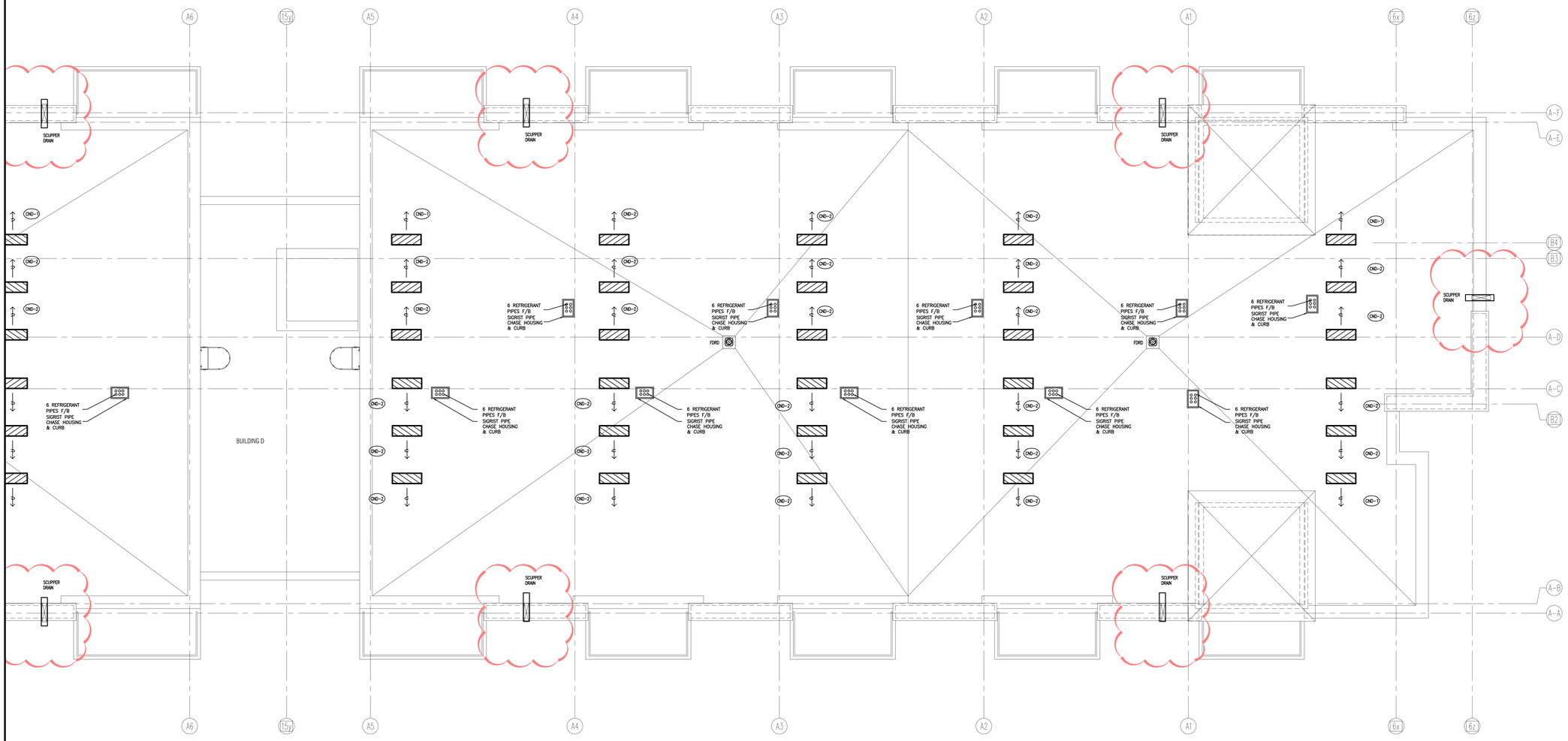
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TITLE
BLOCK 'A'
ROOF - PLUMBING/SANITARY

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 -



11	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
10	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
09	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
08	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
07	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION#2	JUN. 15, 2021
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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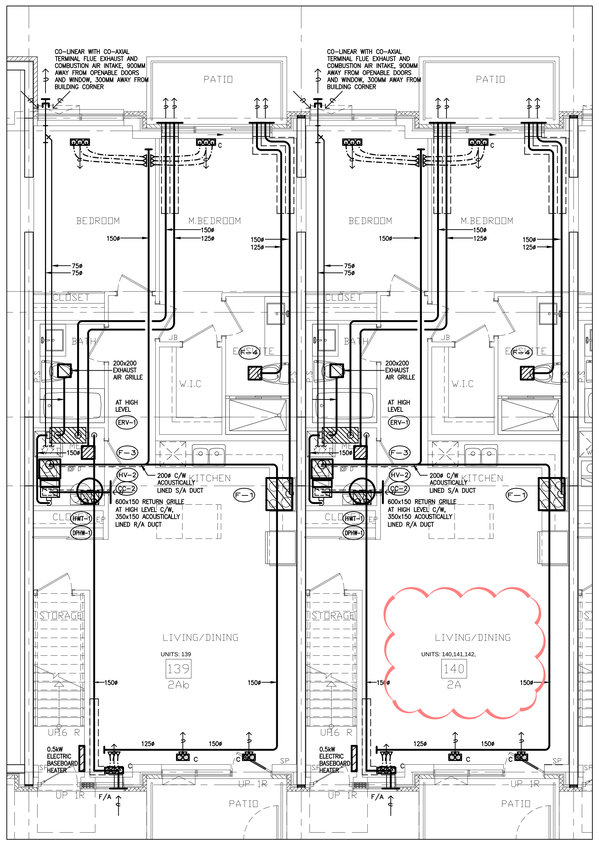
TITLE
BLOCK 'A'
ROOF - PLUMBING/SANITARY

PROJECT

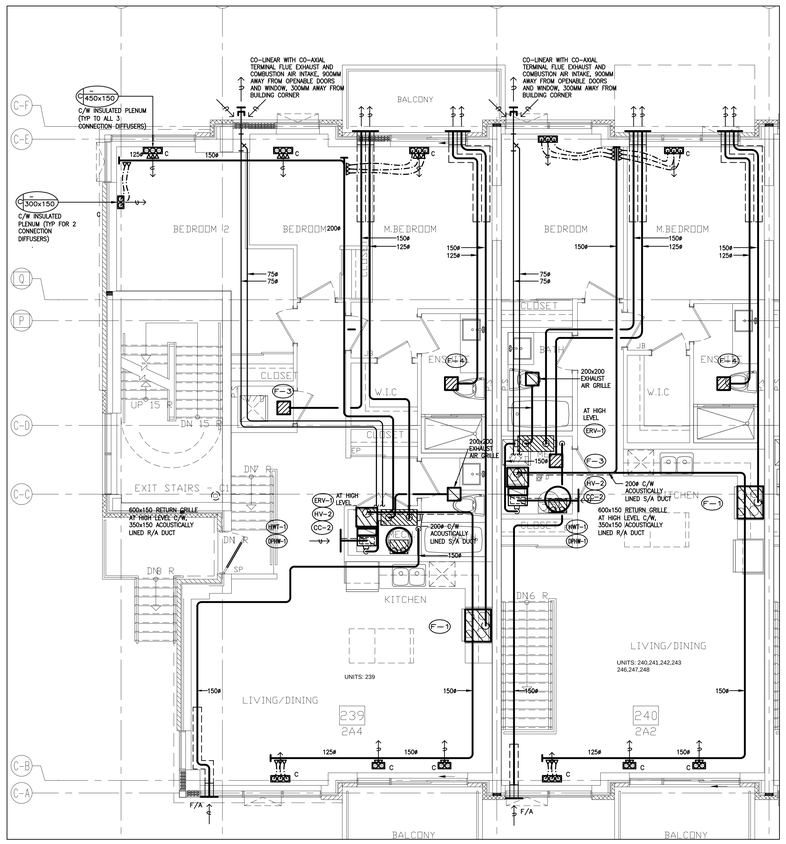
BRAMPTON STACKED FORESTSIDE ESTATES

ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

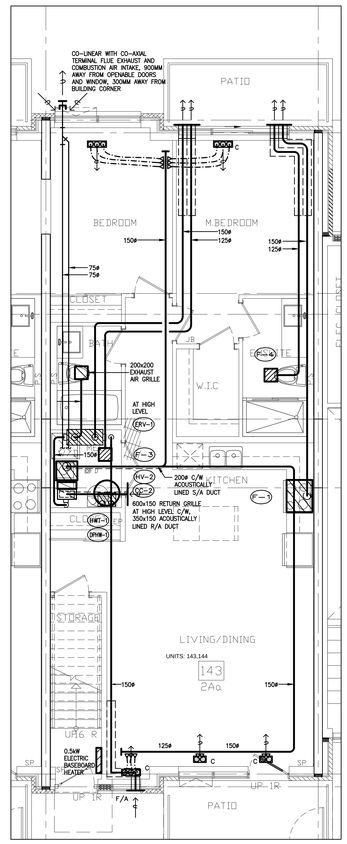
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DATE: MAY, 2019	PROJECT: 18-017	DRAWING: M-44
		OF: -



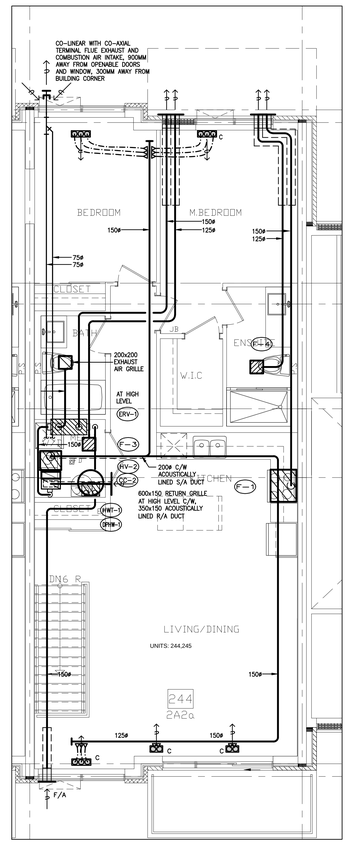
GROUND FLOOR TYPICAL SUITE LAYOUT TYPE 2Ab & 2A



SECOND FLOOR TYPICAL SUITE LAYOUT TYPE 2A4 & 2A2



GROUND FLOOR TYPICAL SUITE LAYOUT TYPE 2Aa



SECOND FLOOR TYPICAL SUITE LAYOUT TYPE 2A2a

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11	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
10	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
09	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
08	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
07	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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 ADD 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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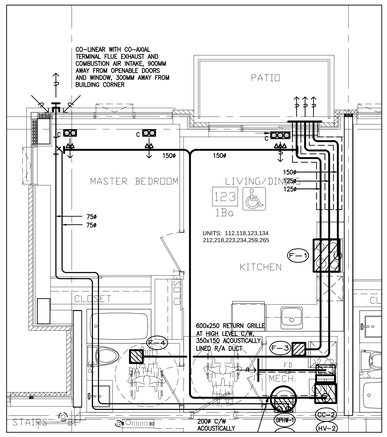
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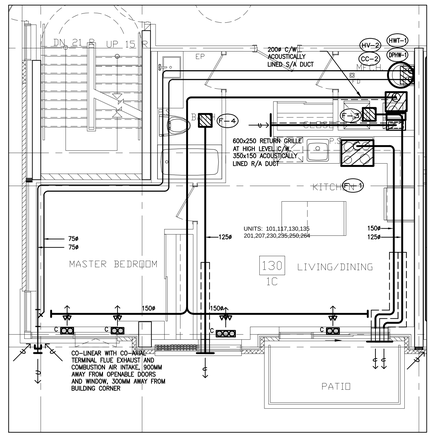
TITLE
TYPICAL SUITES LAYOUT MECHANICAL

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

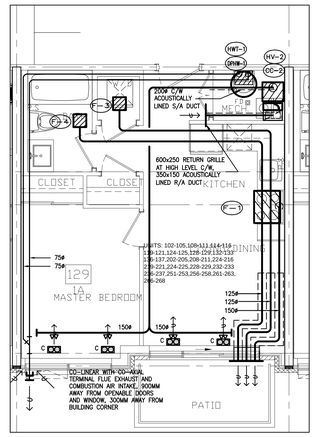
DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-45
		OF -



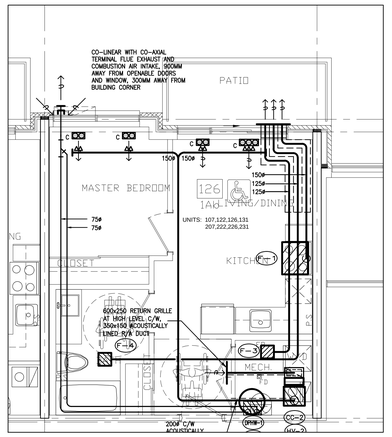
TYPICAL SUITE LAYOUT TYPE 1Ba



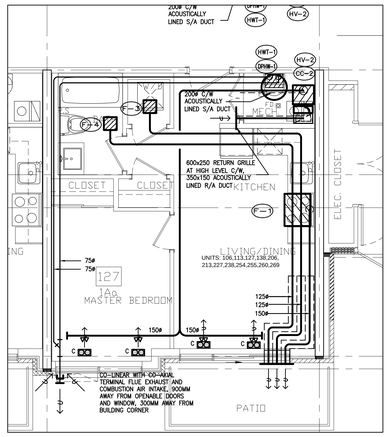
TYPICAL SUITE LAYOUT TYPE 1C



TYPICAL SUITE LAYOUT TYPE 1A



TYPICAL SUITE LAYOUT TYPE 1Ab



TYPICAL SUITE LAYOUT TYPE 1Aa

GRD FLOOR TYPICAL SUITE LAYOUT TYPE 2A1-R

GRD FLOOR TYPICAL SUITE LAYOUT TYPE 2A-R

GRD FLOOR TYPICAL SUITE LAYOUT TYPE 2Aa-R

SECOND FLOOR TYPICAL SUITE LAYOUT TYPE 2A3

GRD FLOOR TYPICAL SUITE LAYOUT TYPE 2A1

NO.	BY	DESCRIPTION	DATE
12	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
11	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
10	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
09	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION#2	JUN. 15, 2021
08	LB	ISSUED AS PER SITE INSTRUCTION M-02	JUN. 04, 2021
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

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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 -

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

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.† K.P.A. INS.	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	5			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	5			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	25HNA424	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	25HNA418	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 (Y)	FLOW RATE AT TEMP RISE	VENT	REMARKS
(HWT-1)	GIANT	152ETE-907W	INDIRECT STORAGE TANK	TOWNHOUSE	MECH RM	184L (40.5GAL)						
(HWT-2)	GA SMITH POINT OF USE	EJC-2	ELECTRIC	BASEMENT WASHROOM	ABV CLG	10L (2.5 USGAL)	1.5	120/1/60	90			
(HWT-3)	GA SMITH POINT OF USE	DEL-20S	ELECTRIC	BASEMENT JANITOR'S RM	ABV CLG	74L (19 USGAL)	6.0	208/1/60	90			
(HWT-4)	GA SMITH POINT OF USE	E6C-2P15SV	ELECTRIC	THIRD FLOOR WASHROOM	UNDER CABINET	9.5L (2.5 USGAL)	1.4	120/1/60	90			

PUMP SCHEDULE

NO.	TYPE	LOCATION	CAPICITY 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 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.† K.P.A. INS.	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 14		208/1/60	CARRIER	40MKCB18B---3			C/W REMOTE SYSTEM TURING KIT MODEL# 7600-503, 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 BLOWER & COIL	GARBAGE ROOMS			24.0 MBH	800		0.4"	6.4FLA		208/1/60	CARRIER	42DEA082LJY6AT1R	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 BLOWER & COIL	LOBBY			24.0 MBH	800		0.4"	15kW ELEC HEATER 1 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.† K.P.A. INS.	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 COIL 200 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, DIRECT DIGITAL CONTROLS MOTORIZED INTAKE DAMPER, AMBIENT COMPENSATING PACKAGE DISCHARGE VIBRATION ISOLATION, FILTER RACK, STAND & INSULATION CABINET
(MAU-2)	MAKE-UP AIR UNIT, INDIRECT GAS FIRED HEATING, DX COOLING	BLK 'C' ROOF	HEATING COIL 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, DIRECT DIGITAL CONTROLS MOTORIZED INTAKE DAMPER, AMBIENT COMPENSATING PACKAGE DISCHARGE VIBRATION ISOLATION, FILTER RACK, STAND & INSULATION CABINET
(MAU-3)	MAKE-UP AIR UNIT, INDIRECT GAS FIRED HEATING, DX COOLING	BLK 'B' ROOF	HEATING COIL 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, DIRECT DIGITAL CONTROLS MOTORIZED INTAKE DAMPER, AMBIENT COMPENSATING PACKAGE DISCHARGE VIBRATION ISOLATION, FILTER RACK, STAND & INSULATION CABINET
(MAU-4)	MAKE-UP AIR UNIT, INDIRECT GAS FIRED HEATING, DX COOLING	BLK 'A' ROOF	HEATING COIL 850 MBH	8700 DX COIL 279 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, DIRECT DIGITAL CONTROLS MOTORIZED INTAKE DAMPER, AMBIENT COMPENSATING PACKAGE DISCHARGE VIBRATION ISOLATION, FILTER RACK, STAND & INSULATION CABINET

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.

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 EXCEED 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 THINSPHERE 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.

FAN SCHEDULE

NO.	TYPE	LOCATION	CAPACITY CFM L/S	DRAWERS K.P.A. INCHES	RPM	H.P. K.W.	ELECTRICAL CHARACTERISTICS	MAKE	MODEL	OPENING INCHES MM	REMARKS
(F-1)	EXHAUST	SUITE	100	.30		2.0AMPS	120/1/60	BROAN BROAN CARPY REVERSOMATIC	BC-300 200CF-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	KANALFLAKT REVERSOMATIC ZONEX	GB240L DRC 70a DFTB0L		FACTORY MOUNTED & WIRED DRYSTAR SWITCH & TIMER FAN AND DUCTING ON TAB ONLY
(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" MM	DUAL SPEED OVERALL SOUND POWER SHALL BE 75dBA OR LESS
(F-6)	AIR MOVING FAN	U/G GARAGE	3500	.25	492	1 HP	600/3/60	PENN	ZCC12		
(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		TO RUN CONTINUOUSLY
(F-9)	EXHAUST	BMH 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		TO RUN CONTINUOUSLY
(F-12)	EXHAUST	SUB ELECT RM BLDG B	3768	.125	1050	1/2 HP	120/1/60	PENN	BREEZEWAY P18VA		TO RUN CONTINUOUSLY
(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	BMH 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		TO RUN CONTINUOUSLY
(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	BMH RM BLDG B BMH 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	Z103H		TO RUN CONTINUOUSLY
(F-19)	EXHAUST	LOCKER RM #3,# 5	198	.125	1550	108 WATTS	120/1/60	PENN	Z6H		TO RUN CONTINUOUSLY
(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		TO RUN CONTINUOUSLY
(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 mm (inches)	COLD mm (inches)
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")	19mm (3/4")
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 (1-1/4")
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 2" OR 3"ø COMBUSTION AND 2"OR 3"ø VENT FOR EACH HEAT BOILER HB-1 OR 2 AND TERMINATE WITH CONCENTRIC ADAPTER ON THE WALL/ROOF, MAINTAIN THE CLEARANCE FROM THE OPENABLE 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 9' OF 2-1/2"ø FLEXIBLE DUCT FROM DUCT TRUNK TO EACH OUTLET DIFFUSER

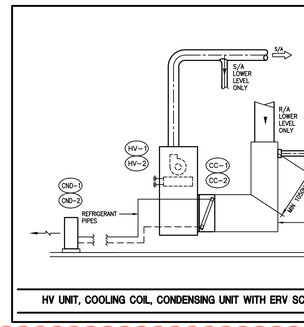
PIPING
* INSTALL ALL PIPING AWAY FROM BUILDING EXTERIOR WALLS TO AVOID PIPE FREEZING

GRILLE SCHEDULE

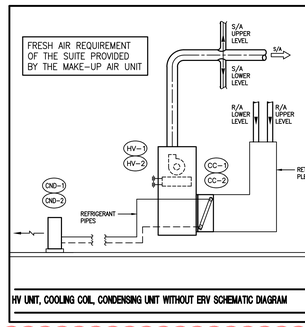
TYPE/SIZE/STYLE	DESCRIPTION	DAMPER	MAKE	TYPE	NOTES
A	CORRIDOR FRESH AIR SUPPLY	YES	EH PRICE	6300	19MM LOUVER SPACING, FIXED LOUVRE, 45 DEGREE DEFLECTION
B	EXHAUST/ RETURN	NO	EH PRICE	630	19MM LOUVER SPACING, FIXED LOUVRE, 45 DEGREE DEFLECTION
C	SUPPLY	YES	EH PRICE	6300	19MM LOUVER SPACING, DOUBLE DEFLECTION
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

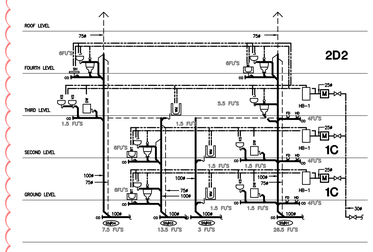
UNIT No.	DESCRIPTION	CAPACITY	MAKE	MODEL	ELECTRICAL CHARACTERISTICS	NOTES
(H-1)	ELECTRIC FORCE FLOW HEATER	12kW	OULLET	OAWH1208-TAV	208/1/60	TRIPLE FORCE FLOW HEATER
(H-2)	ELECTRIC FORCE FLOW HEATER	8kW	OULLET	OAWH0808-TAV	208/1/60	DOUBLE FORCE FLOW HEATER
(H-3)	ELECTRIC FORCE FLOW HEATER	4.8kW	OULLET	OAWH0408-TAV	208/1/60	SINGLE FORCE FLOW HEATER



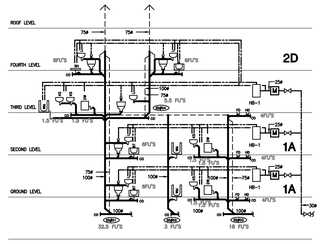
HV UNIT, COOLING COIL, CONDENSING UNIT WITH ERV SCHEMATIC DIAGRAM



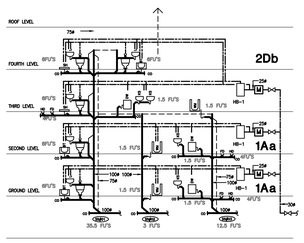
HV UNIT, COOLING COIL, CONDENSING UNIT WITHOUT ERV SCHEMATIC DIAGRAM



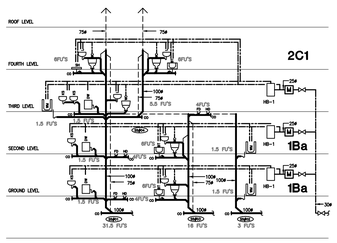
PLUMBING RISER 01 TYPICAL
FOR BLOCK 'A' 'B' 2D2/1C/1C



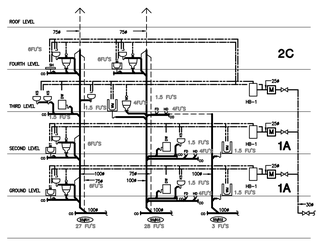
PLUMBING RISER 02 TYPICAL
FOR BLOCK 'A' 'B' 2D/1A/1A



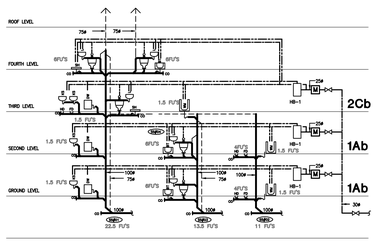
PLUMBING RISER 03 TYPICAL
FOR BLOCK 'A' 'B' 2Db/1Aa/1Aa



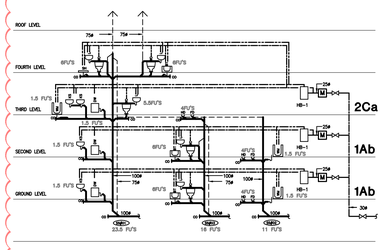
PLUMBING RISER TYPICAL 04
FOR BLOCK 'A' 'B' 2C1/1Ba/1Ba



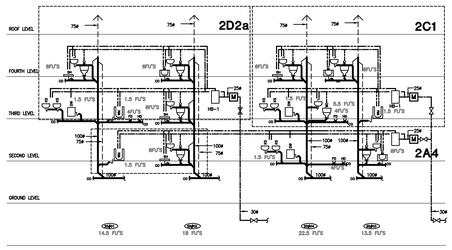
PLUMBING RISER 05 TYPICAL
FOR BLOCK 'A' 'B' 2C/1A/1A



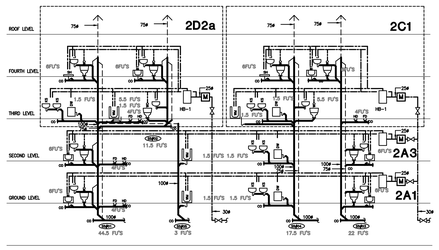
PLUMBING RISER 06 TYPICAL
FOR BLOCK 'A' 2Cb/1Ab/1Ab



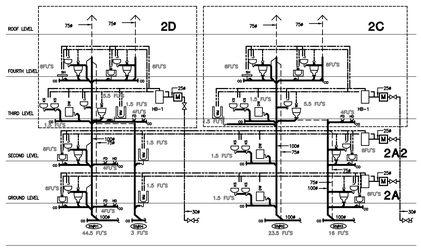
PLUMBING RISER 07 TYPICAL
FOR BLOCK 'B' 2Ca/1Ab/1Ab



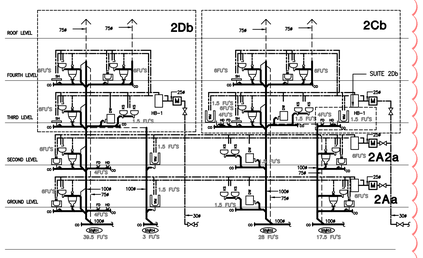
PLUMBING RISER 08 TYPICAL
FOR BLOCK 'C' 2D2a,2C1/2A4



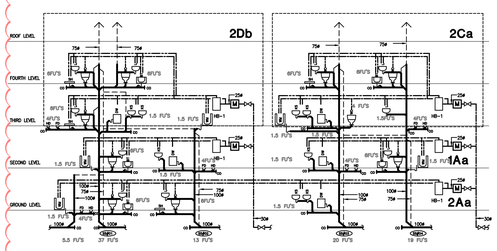
PLUMBING RISER 09 TYPICAL
FOR BLOCK 'C' 2D2,2C1/2A3/2A1



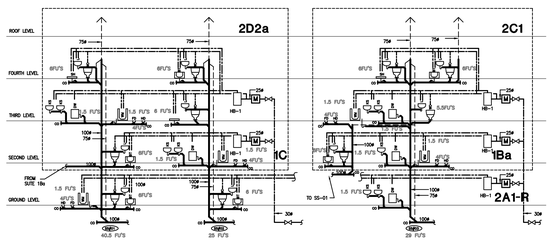
PLUMBING RISER 10 TYPICAL
FOR BLOCK 'C' 2D,2C/2A2/2A



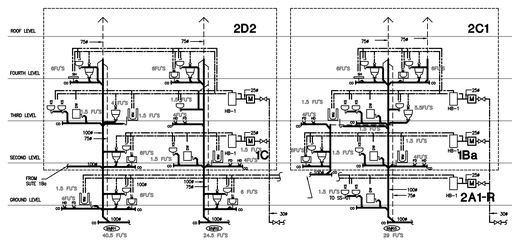
PLUMBING RISER 11 TYPICAL FOR
BLOCK 'C' 2Db,2Cb/2A2a/2Aa



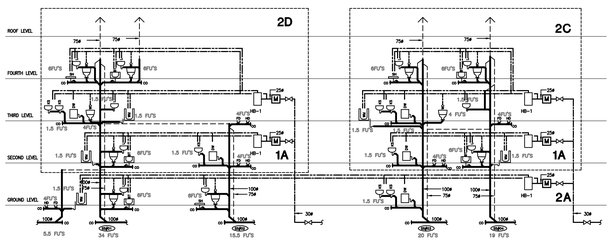
PLUMBING RISER 12 TYPICAL FOR
BLOCK 'D' 2Db,2Ca/1Aa/2Aa



PLUMBING RISER 13 TYPICAL FOR
BLOCK 'D' 2D2a,2C1/1C,1Ba/2A1-R



PLUMBING RISER 14 TYPICAL FOR
BLOCK 'D' 2D2,2C1/1C,1Ba/2A1-R



PLUMBING RISER 15 TYPICAL
FOR BLOCK 'D' 2D,2C/1A/2A

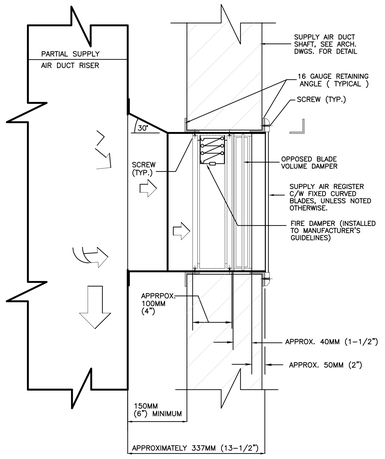
NO.	BY	DESCRIPTION	DATE
12	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
11	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
10	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
09	LB	ISSUED AS PER SITE INSTRUCTION M-04	AUG. 03, 2021
08	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
07	LB	ISSUED AS PER SITE INSTRUCTION M-01	APR. 28, 2021
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

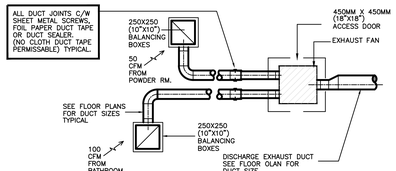
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UNITED ENGINEERING INC.
M

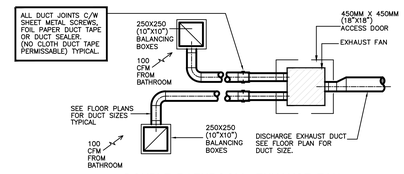


TYPICAL DETAIL OF CORRIDOR SUPPLY AIR DUCT SHAFT



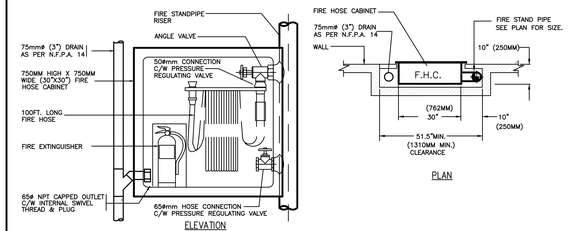
BATHROOM/ POWDER ROOM EXHAUST FAN

N.T.S

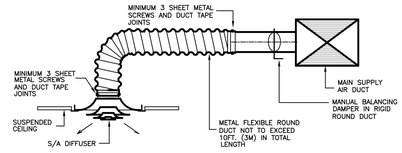


DOUBLE BATHROOM EXHAUST FAN

N.T.S

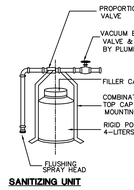


FIRE HOSE CABINET DETAIL (SIDE CONNECTION)

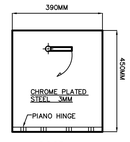


TYPICAL DETAIL OF FLEXIBLE/RIGID DUCT CONNECTION TO DIFFUSER

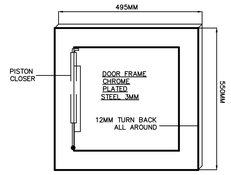
N.T.S



SANITIZING UNIT



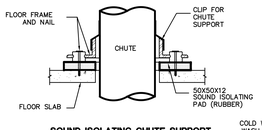
DOOR



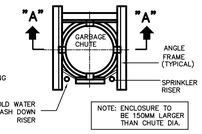
DOOR FRAME

LIST OF EQUIPMENT:

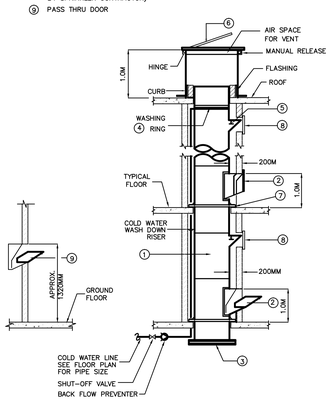
1. CHUTE RISER
2. INTAKE DOOR
3. FIRE DAMPER
4. WASH DOWN
5. SPRINKLER HEAD AT EVERY OTHER FLOOR
6. VENT CAP
7. ANGLE SUPPORT
8. ACCESS DOOR (SUPPLIED BY SPRINKLER CONTRACTOR)
9. PASS THRU DOOR



SOUND ISOLATING CHUTE SUPPORT (SECTION A-A)

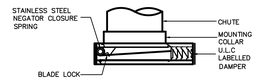


CHUTE SUPPORT DETAIL

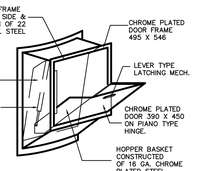


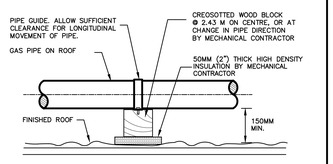
GARBAGE CHUTE DETAIL

(BASED ON YORK)
N.T.S.



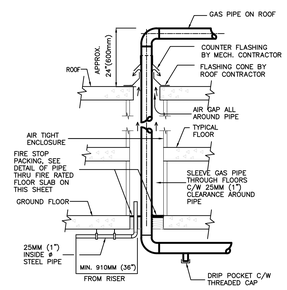
FIRE DAMPER AT BOTTOM OF CHUTE





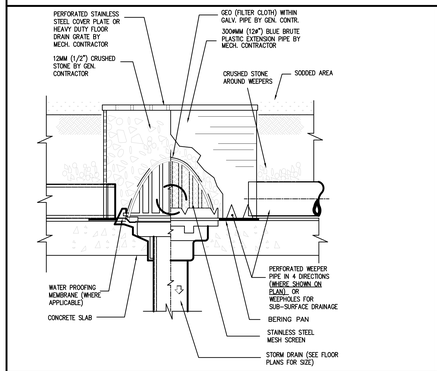
DETAIL OF GAS LINE ON ROOF

N.T.S



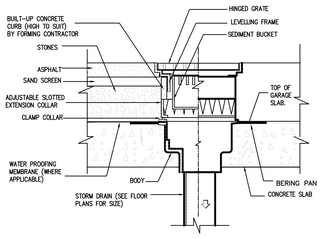
DETAIL OF GAS RISER VENT SHAFT

N.T.S.



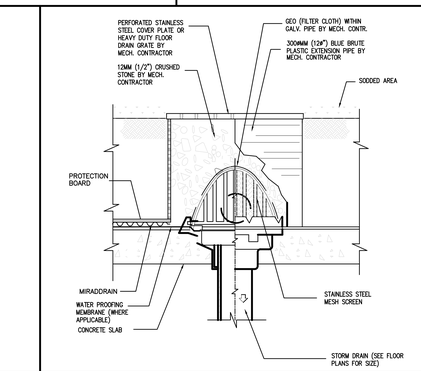
DETAIL OF COMBINATION SODDED AREA /SLAB DRAIN (SAD/SD)

N.T.S.



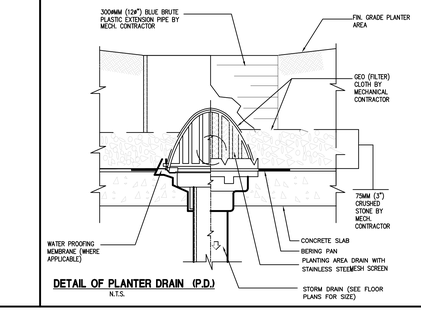
DETAIL OF COMBINATION PAVED AREA AND SLAB DRAIN (PAD/SD) ABOVE PARKING GARAGE

N.T.S.



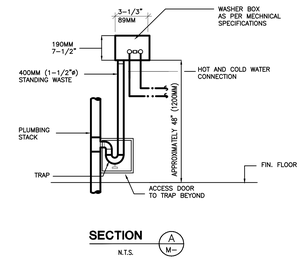
DETAIL OF SODDED AREA DRAIN (SAD.)

N.T.S.



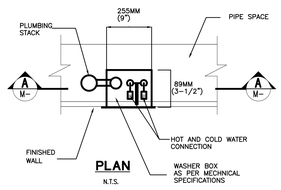
DETAIL OF PLANTER DRAIN (P.D.)

N.T.S.



SECTION A/M

N.T.S.

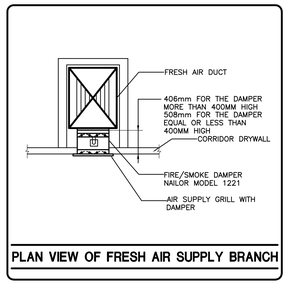


PLAN

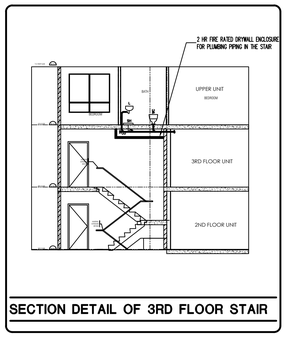
N.T.S.

TYPICAL DETAIL OF SANITARY AND WATER CONNECTION FOR WASHING MACHINE

N.T.S.



PLAN VIEW OF FRESH AIR SUPPLY BRANCH



SECTION DETAIL OF 3RD FLOOR STAIR

NO.	BY	DESCRIPTION	DATE
09	LB	ISSUED AS PER SITE INSTRUCTION M-05	OCT. 26, 2021
08	LB	RE-ISSUED AS PER SI A10 FOR PERMIT	OCT. 15, 2021
07	LB	ISSUED FOR PERMIT REVISION TO BLD D	SEP. 27, 2021
06	LB	ISSUED FOR PROGRESSIVE CONSTRUCTION #2	JUN. 15, 2021
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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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-52
		OF -