



UNITED ENGINEERING INC
Mechanical and Electrical Consulting Engineers

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ADDENDUM

PROJECT: Forestside Estates
Attmar & Palleschi Drive
Brampton, Ontario

PROJECT NO.: 18-017

CONTRACT: Mechanical

DATE: JUNE 12, 2020

ADDENDUM NO. M-04

CONTRACTORS ARE TO REVIEW ALL CHANGES, DELETIONS AND ADDITIONS TO THE WORK LISTED IN THIS DOCUMENT AND THE REVISED DRAWINGS AND INCORPORATE THESE ITEMS IN THE TENDER PRICE.

PURPOSE: Revise mechanical layouts to suit latest architectural background.

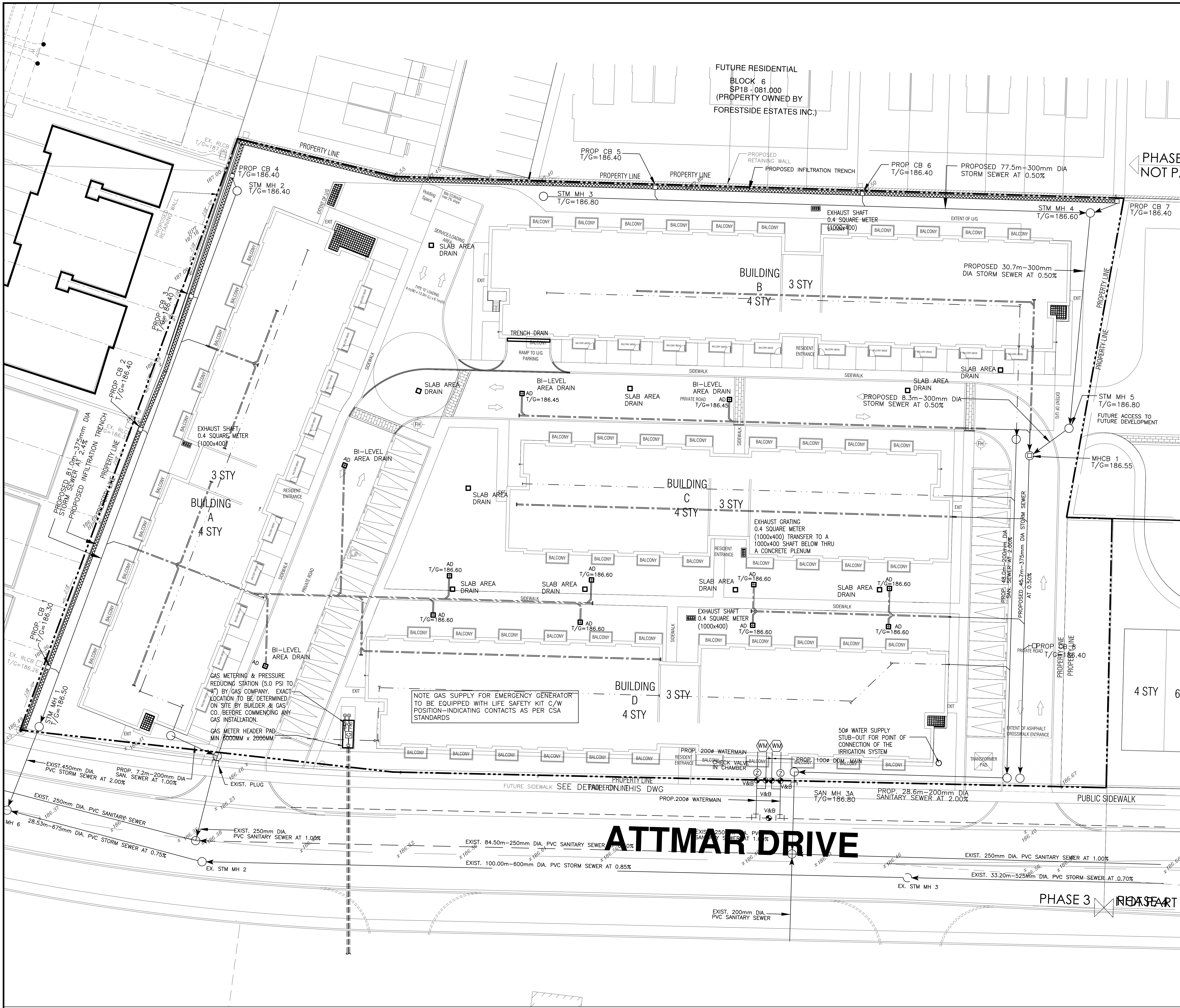
1.0 Reference Drawing M-1 – M-49 issued

1.1 Revised: Whole set mechanical drawing to suit Architectural change.

PREPARED BY: _____


Leon Bai
Mechanical Department

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



LEGEND

- NEW SANITARY DRAIN BURIED
- EXISTING SANITARY DRAIN BURIED
- SANITARY DRAIN ABOVE GROUND
- NEW STORM DRAIN BURIED
- EXISTING STORM DRAIN BURIED
- EXISTING STORM DRAIN ABOVE GROUND
- STORM DRAIN ABOVE GROUND
- NEW CLEAN OUTS
- EXISTING CLEAN OUTS
- NEW DOMESTIC COLD WATER
- EXISTING DOMESTIC COLD WATER TO BE REMOVED
- DOMESTIC HOT WATER
- DOM. HOT WATER REGR. LINE
- VENT. LINE
- GAS LINE
- FIRE LINE
- EXISTING FIRE LINE TO BE REMOVED
- NEW SPRINKLER LINE
- FIRE HOSE CABINET
- FIRE DEPT. SWISS CONNECTION
- FIRE EXTINGUISHER
- SPRINKLER FLOW ALARM SWITCH
- DRY SPRINKLER VALVE C/W ALARM
- SUPERVALVE VALVE - SEE SCHEDULE FOR FIRE PROTECTION NOTES SEE SCHEDULE
- NON FREEZE HOSE BIBB C/W BACKFLOW PREVENTER
- N.T.H.B.
- H.B.
- R.D.
- R.O.W.L.
- R.A.W.L.
- F.D.
- H.D.
- A.D.
- S.A.D.
- C.B.
- M.H.
- ANCHOR
- UNION
- STRAINER
- GATE VALVE
- GLOBE VALVE
- CHECK VALVE
- PRESSURE REDUCING VALVE
- LOCKSHIELD VALVE
- BALANCING VALVE
- PRESSURE RELIEF VALVE
- TEMP. AND PRESSURE RELIEF VALVE
- THERMOMETER
- PRESSURE GAUGE
- PUMP-SEE SCHEDULE
- DETAIL NR. DRAWING NR.
- E/B/B
- E/U/H
- E/F/F
- EXISTING GRADES
- FINAL GRADES
- C/W
- F/D
- S/A
- R/A
- T/A
- T/B
- F/A
- F/B
- ABV

NOTES

- FOR DETAILED SITE SERVING REFER TO DRAWINGS PREPARED BY OGD-DTCH CONSULTING ENGINEER
- FOR DETAILED CHASING REFER TO DRAWINGS PREPARED BY OGD-DTCH CONSULTING ENGINEER

NOTE

- MINIMUM EXPECTED WATER PRESSURE 30 PSI

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

GAS CONSUMPTION		
EQUIPMENT	LOCATION	LOAD (CPH)
TANKLESS COMB. BOILERS	EACH SUITE	
FBO	EACH SUITE	
TOTAL	144 UNITS	
GENERATOR	GROUND FLOOR	
GRAND TOTAL		

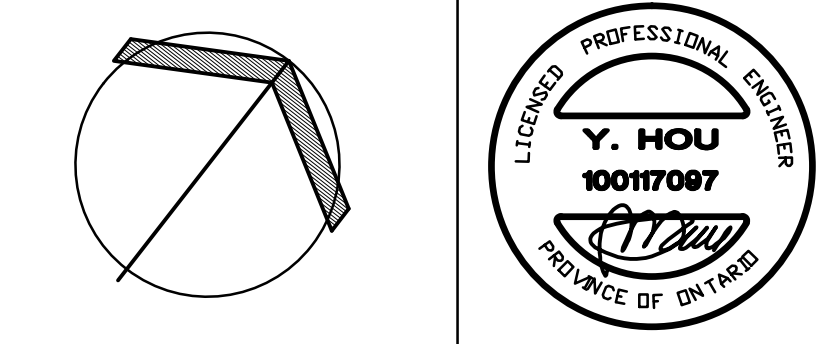
REVISIONS		
NO.	BY	DESCRIPTION
04	LB	ADDENDUM #04
03	LB	ADDENDUM #03
02	RC	ADDENDUM #02
01	RC	ISSUED FOR TENDER

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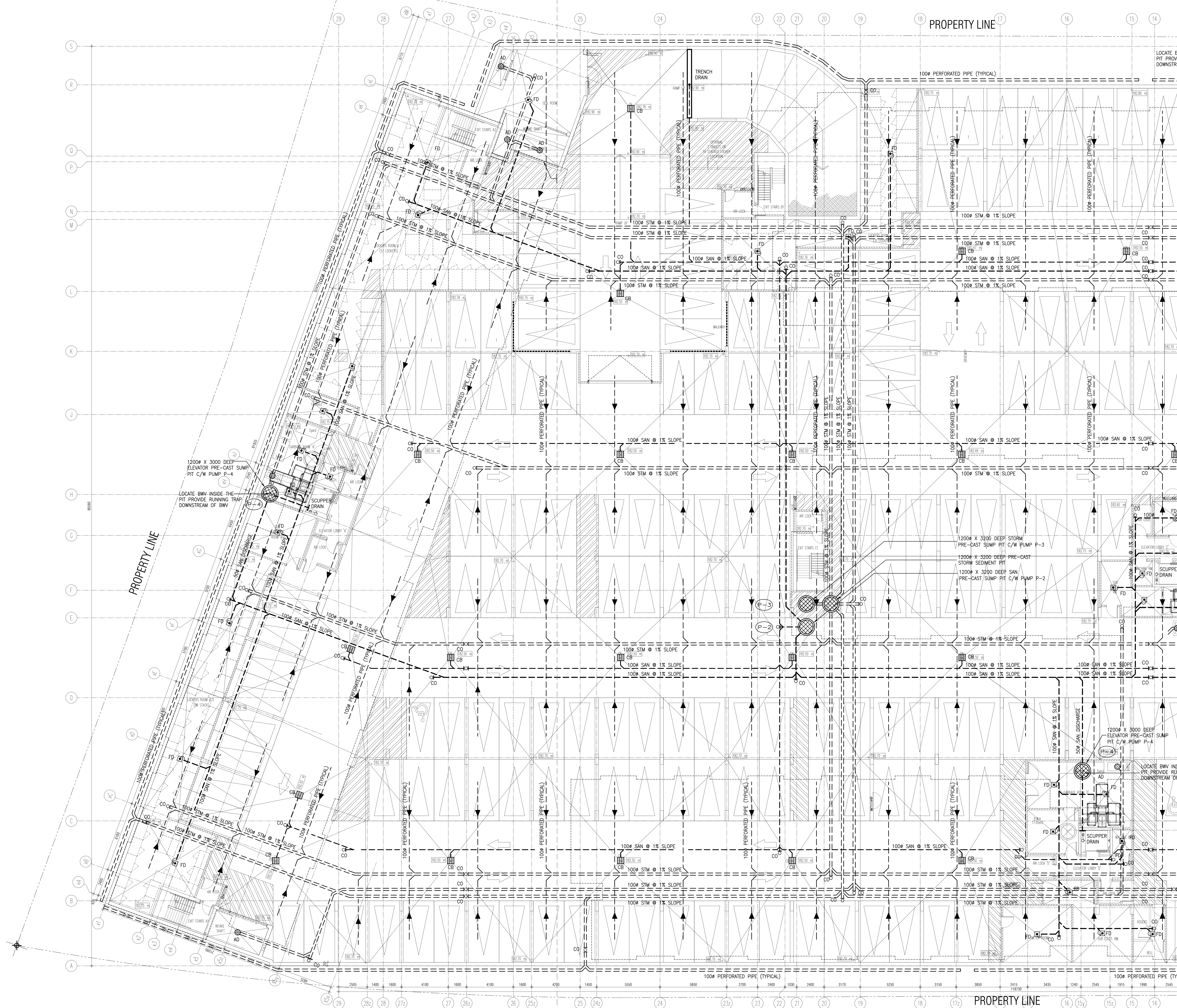
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TITLE SITE PLAN - MECHANICAL	
PROJECT BRAMPTON STACKED FORESTSIDE ESTATES	
ATTMAR + PALLESCI DRIVE BRAMPTON, ONTARIO	
DRAWN MC	CHECKED LM
DATE MAY, 2019	PROJECT 18-017
SCALE 1:200	DRAWING M-1
	OF -



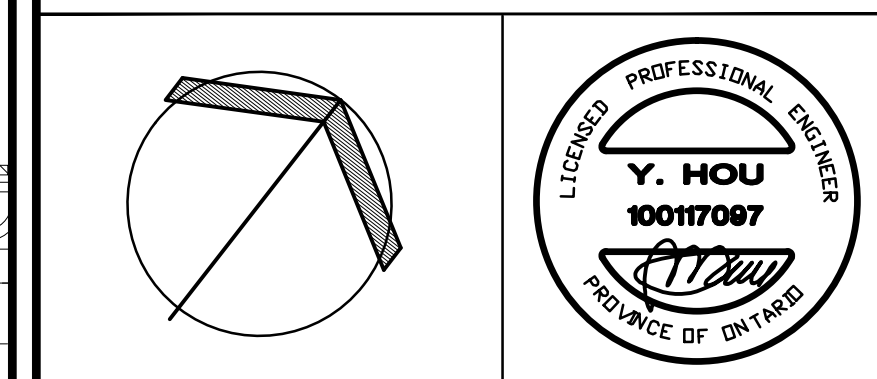
03	RC	ADDENDUM #04	JUN. 12, 2020
02	RC	ADDENDUM #02	SEP. 13, 2019
01	RC	ISSUED FOR TENDER	AUG. 02, 2019
NO.	BY	DESCRIPTION	DATE
REVISIONS			

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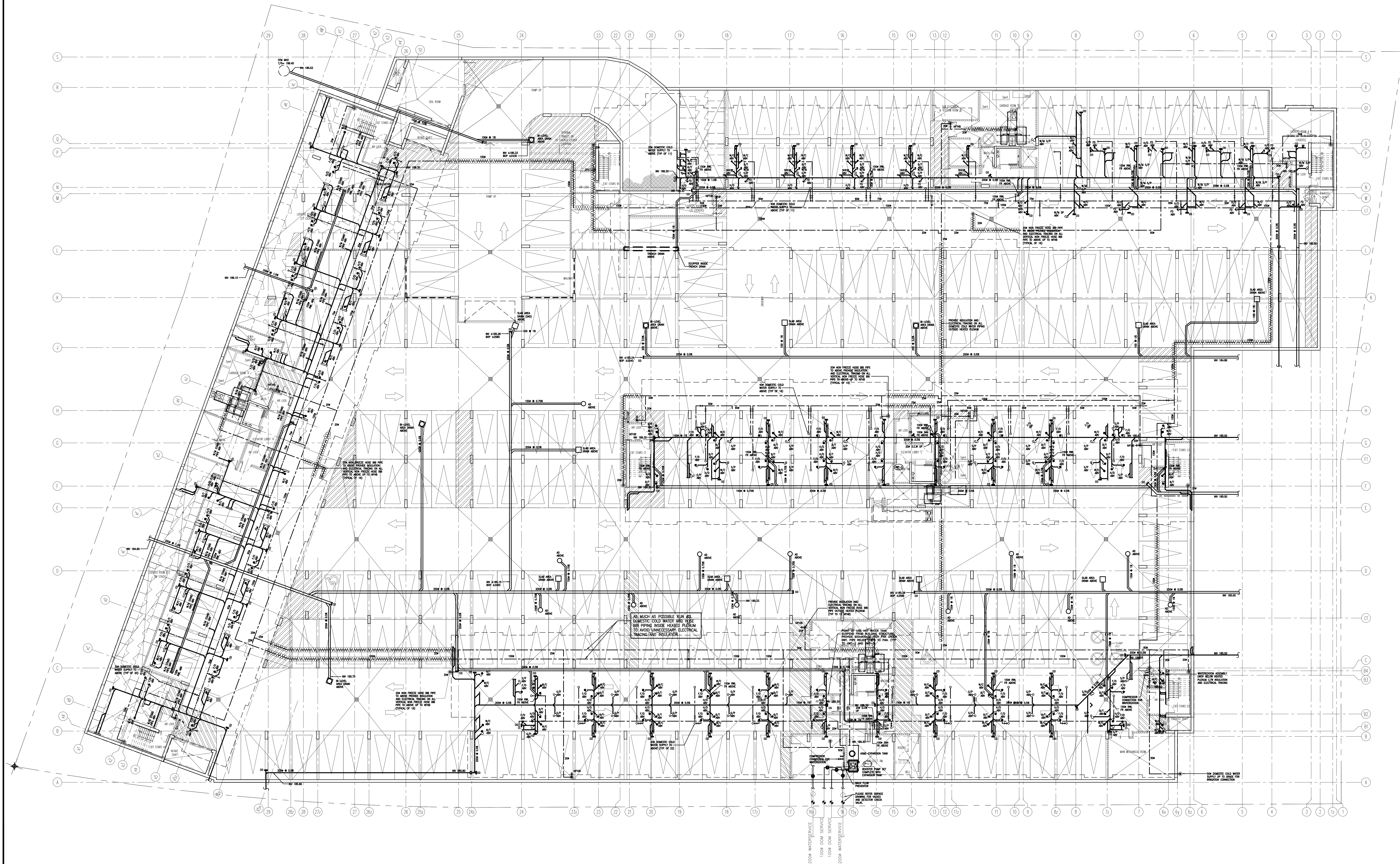
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TITLE UNDERGROUND DRAINAGE LAYOUT MECHANICAL - PART 1	
PROJECT BRAMPTON STACKED FORESTSIDE ESTATES	
ATTMAY + PALLESCI DRIVE BRAMPTON, ONTARIO	
DRAWN MC	CHECKED LM
DATE MAY, 2019	PROJECT 18-017
SCALE 1:100	
DRAWING M-2A	
OF -	



NO.	BY	DESCRIPTION	DATE
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

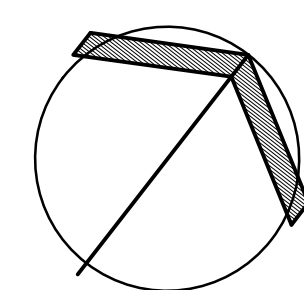
REVISIONS

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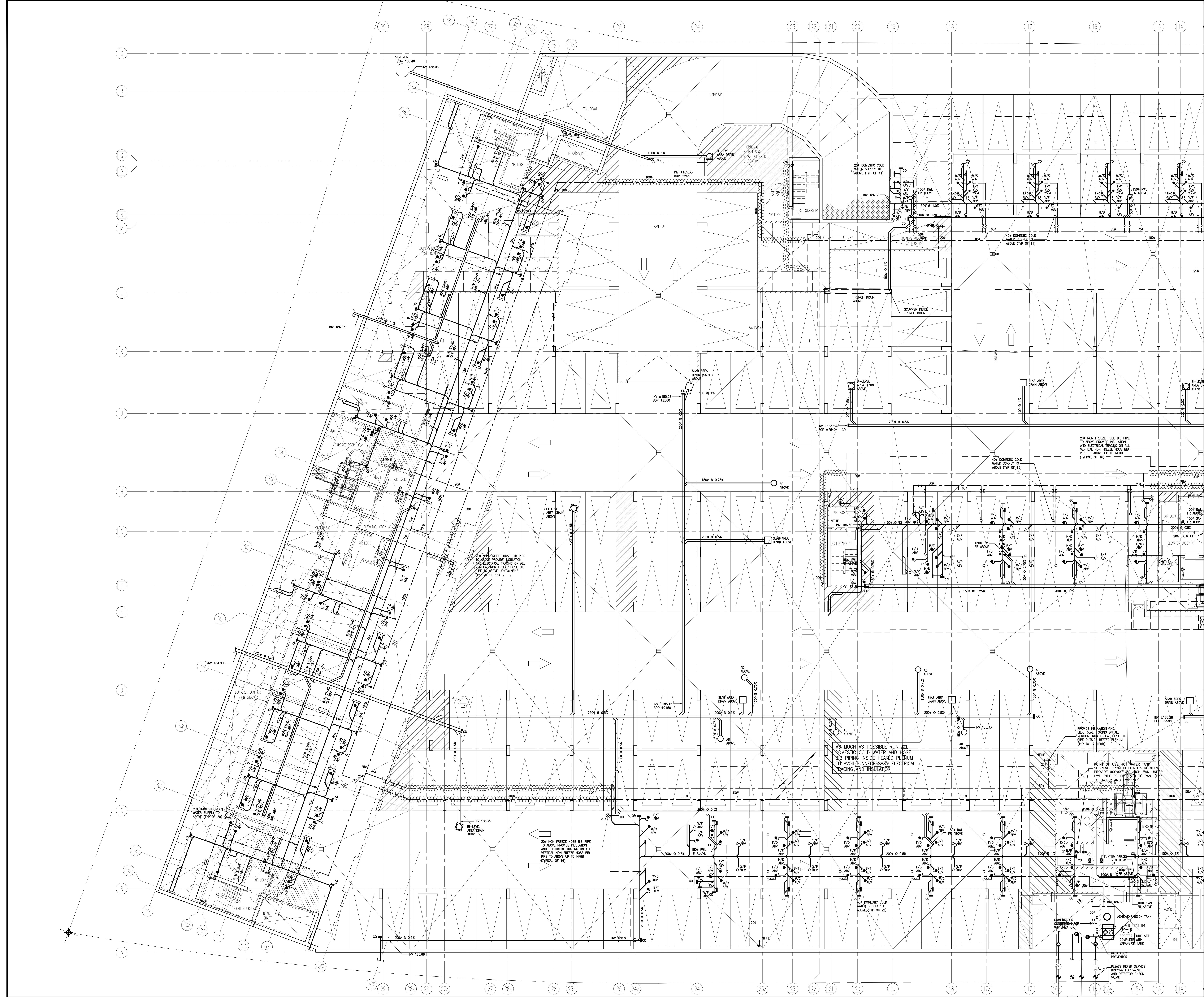
TITLE
**PARKING LEVEL - PLUMBING
MECHANICAL**

PROJECT

**BRAMPTON STACKED
FORESTSIDE ESTATES**

**ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO**

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



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
NO.	BY	DESCRIPTION	DATE

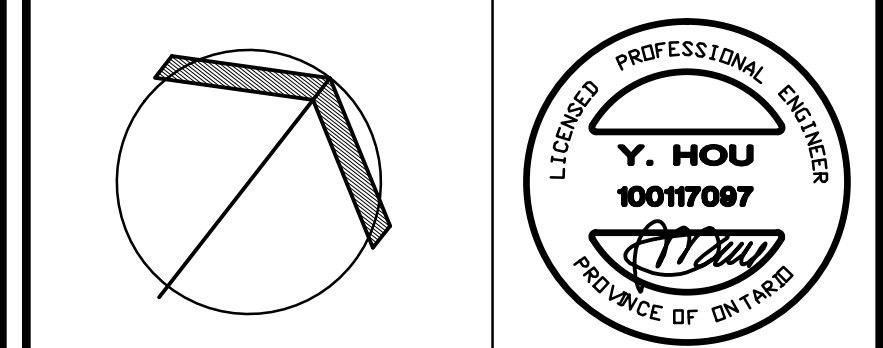
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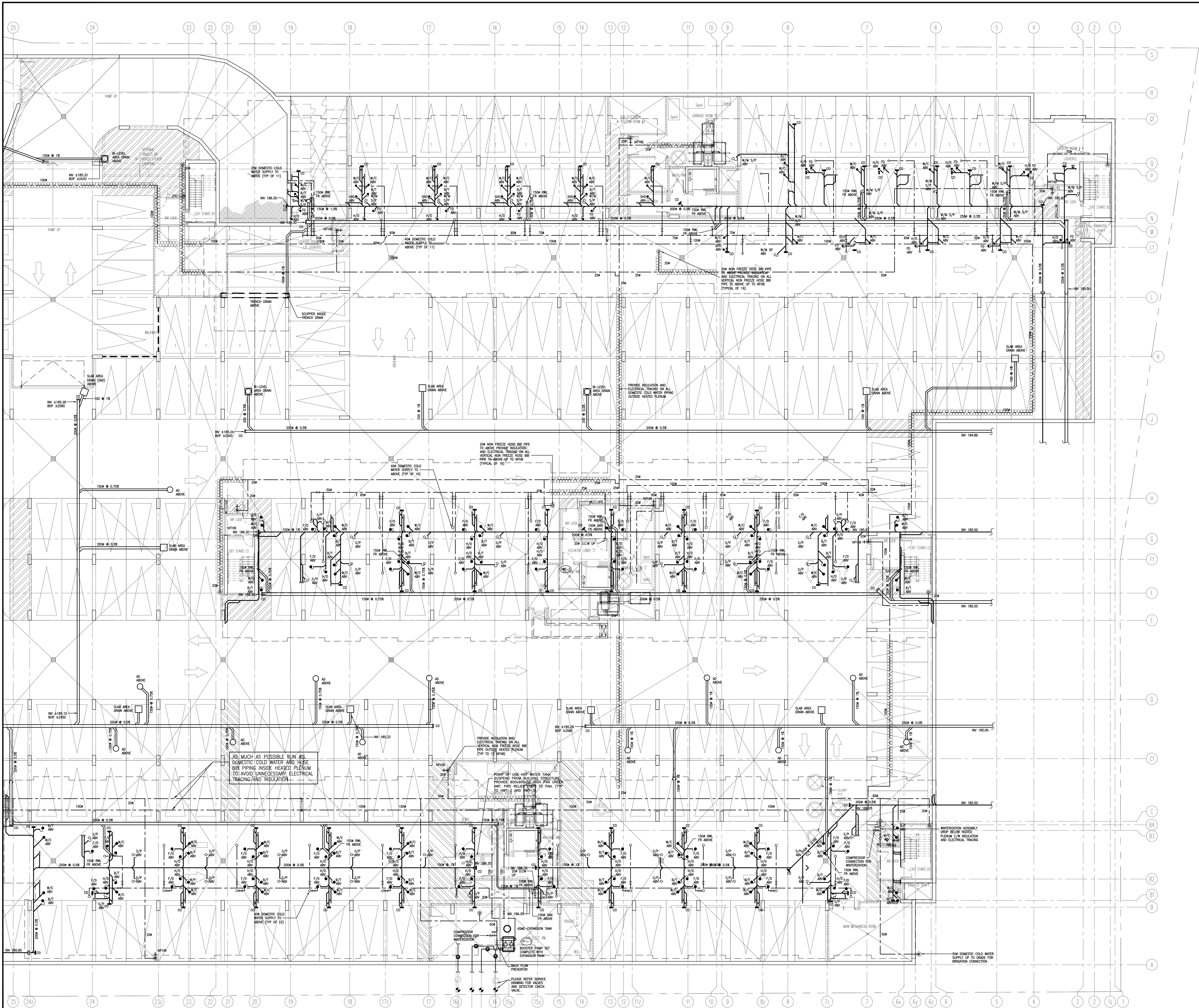
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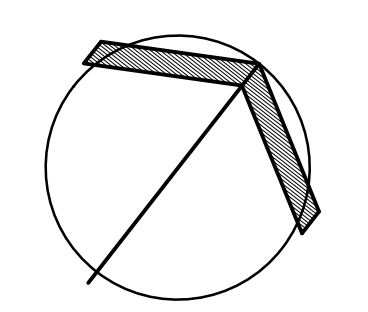
TITLE PARKING LEVEL - PLUMBING MECHANICAL - PART 1			
PROJECT BRAMPTON STACKED FORESTSIDE ESTATES ATTMAR + PALLESCI DRIVE BRAMPTON, ONTARIO			
DRAWN MC	CHECKED LM	SCALE 1:100	DRAWING M-3A
DATE MAY, 2019	PROJECT 18-017	OF -	



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
NO.	BY	DESCRIPTION	DATE

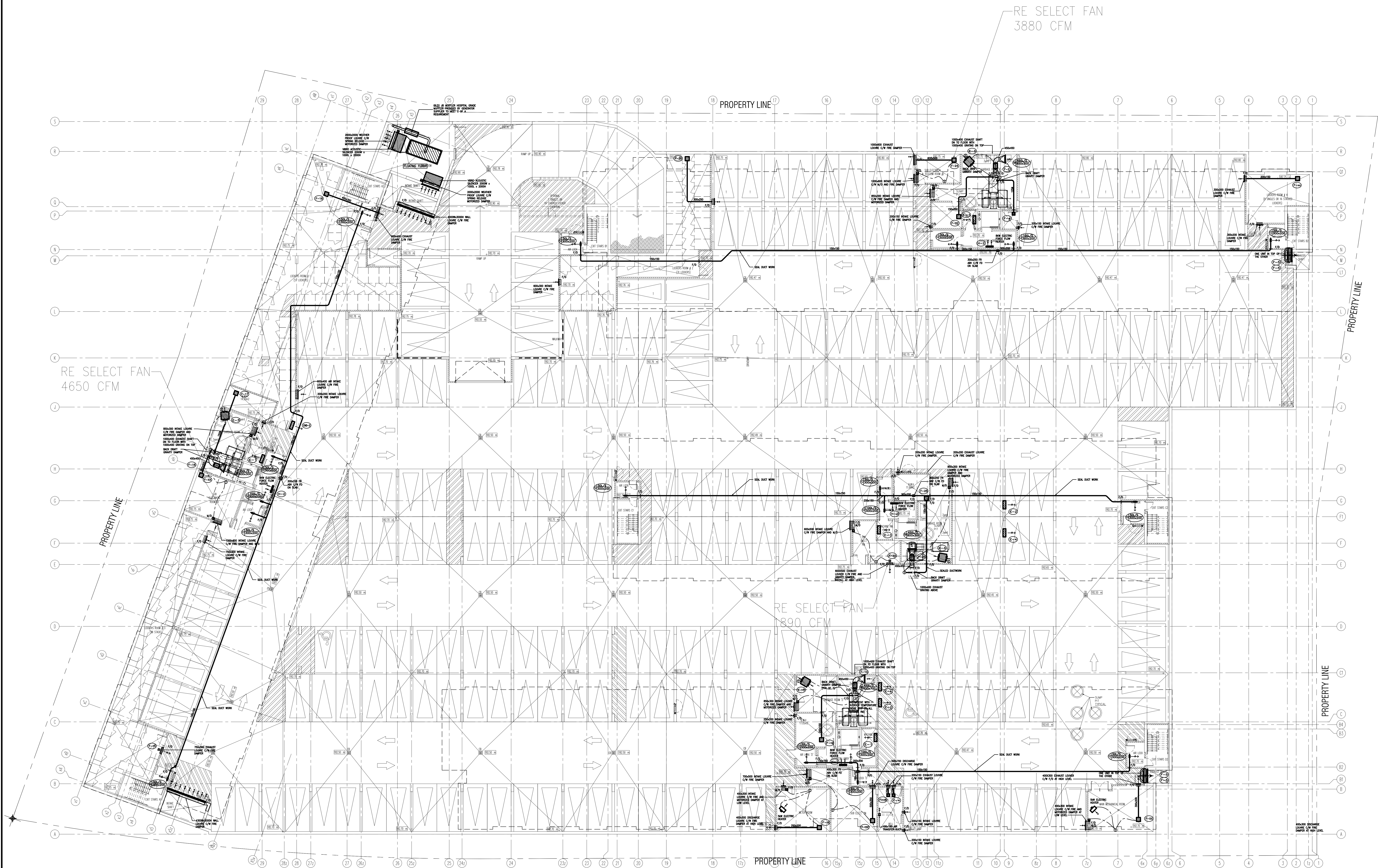
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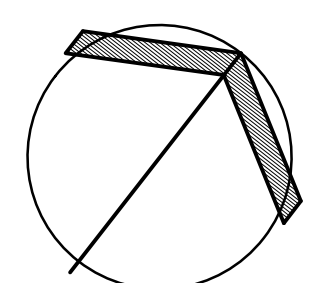
TITLE PARKING LEVEL - PLUMBING MECHANICAL - PART 2		
PROJECT BRAMPTON STACKED FORESTSIDE ESTATES		
ATTMAY + PALLESCI DRIVE BRAMPTON, ONTARIO		
DRAWN MC	CHECKED LM	SCALE 1:100
DATE MAY, 2019	PROJECT 18-017	DRAWING M-3B OF -



NO.	BY	DESCRIPTION	DATE
03	RC	ADDENDUM #04	JUN. 12, 2020
02	RC	ADDENDUM #02	SEP. 13, 2019
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

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TITLE
**PARKING LEVEL - HVAC
MECHANICAL**

PROJECT

**BRAMPTON STACKED
FORESTSIDE ESTATES**

**ATTMAR + PALLESCI DRIVE
BRAMPTON, ONTARIO**

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

RE SELECT FAN
4650 CFM

PROPERTY LINE

PROPERTY LINE

RE SELECT FAN
890 CFM

PROPERTY LINE

NO.	BY	DESCRIPTION	DATE
03	RC	ADDENDUM #04	JUN. 12, 2020
02	RC	ADDENDUM #02	SEP. 13, 2019
01	RC	ISSUED FOR TENDER	AUG. 02, 2019

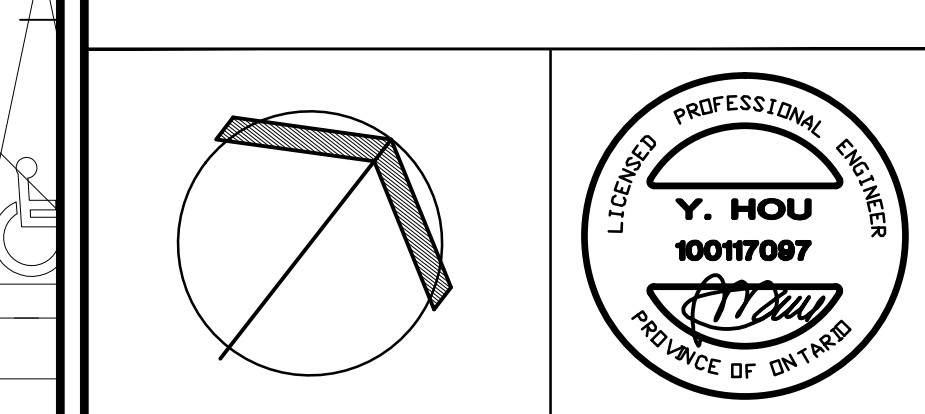
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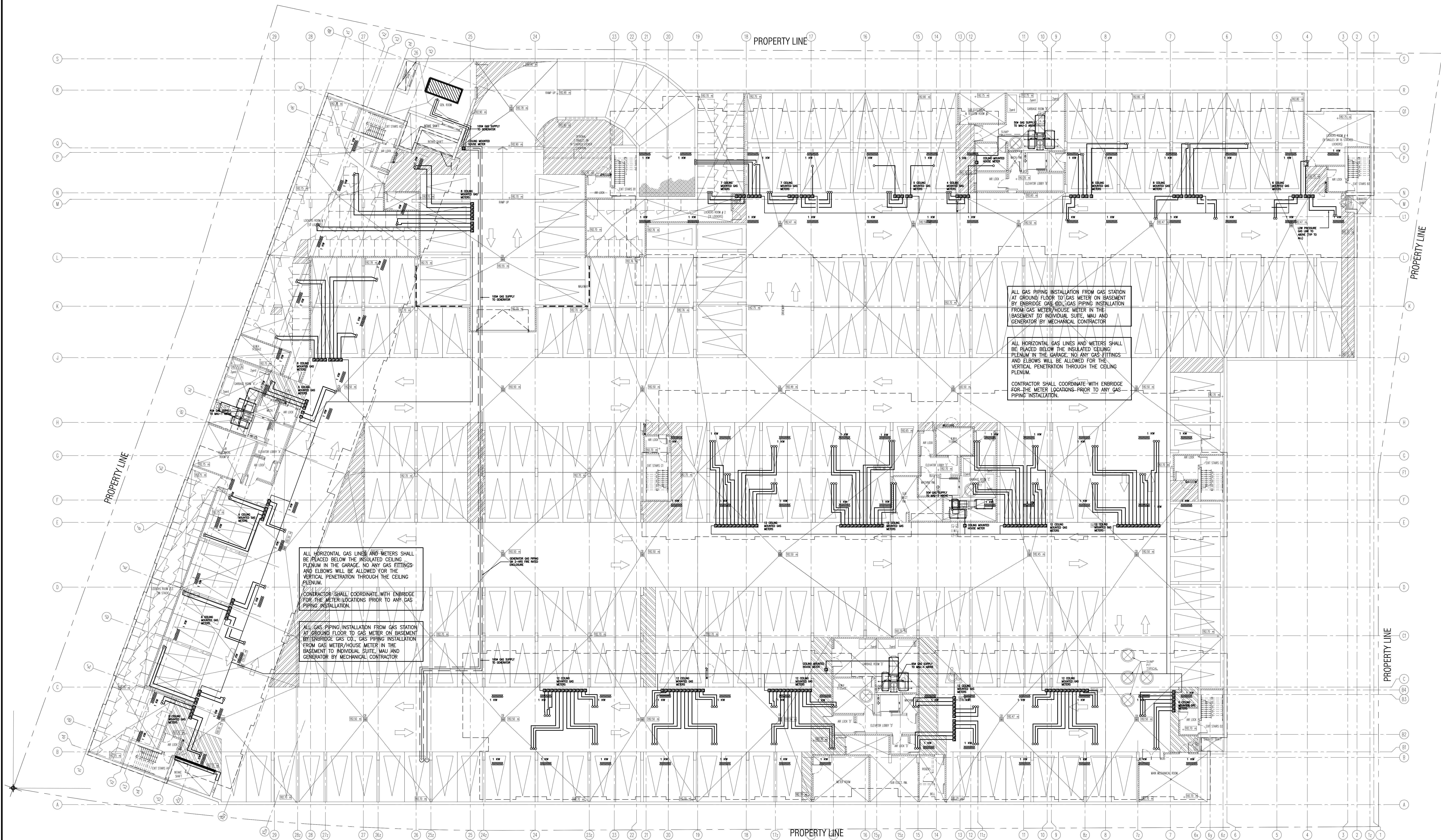
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TITLE
**PARKING LEVEL - HVAC
MECHANICAL - PART 1**

PROJECT
**BRAMPTON STACKED
FORESTSIDE ESTATES**

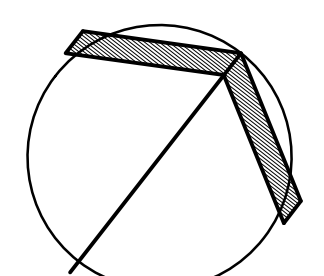
ATTMAR + PALLESCI DRIVE
BRAMPTON, ONTARIO

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



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

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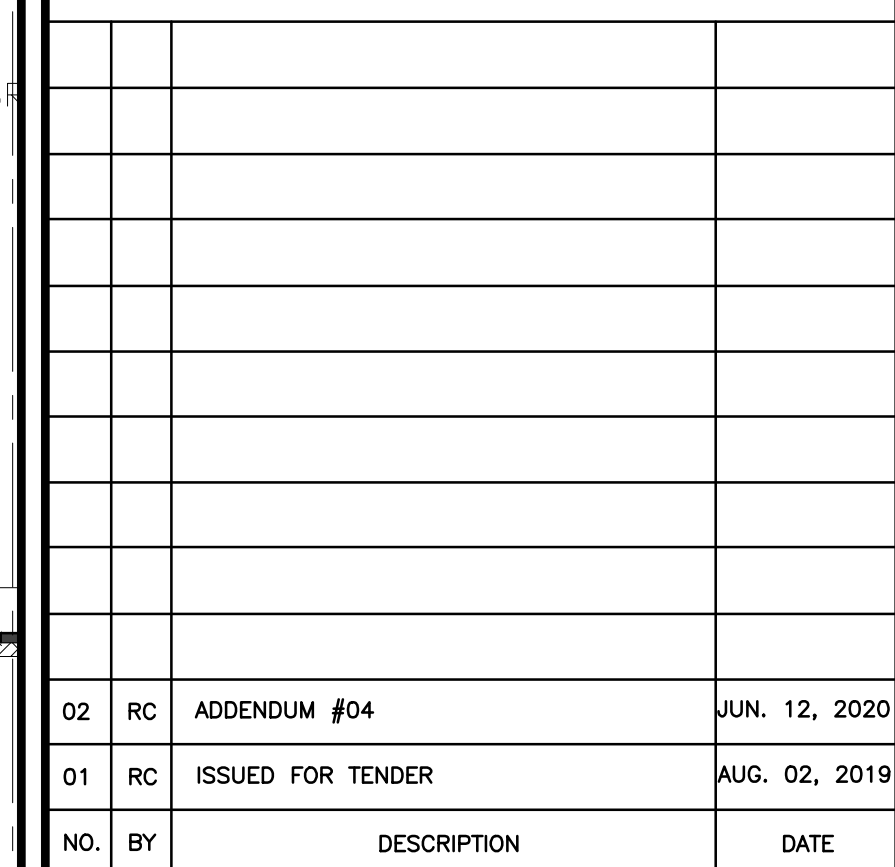


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TITLE
PARKING LEVEL - HVAC + GAS MECHANICAL

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

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

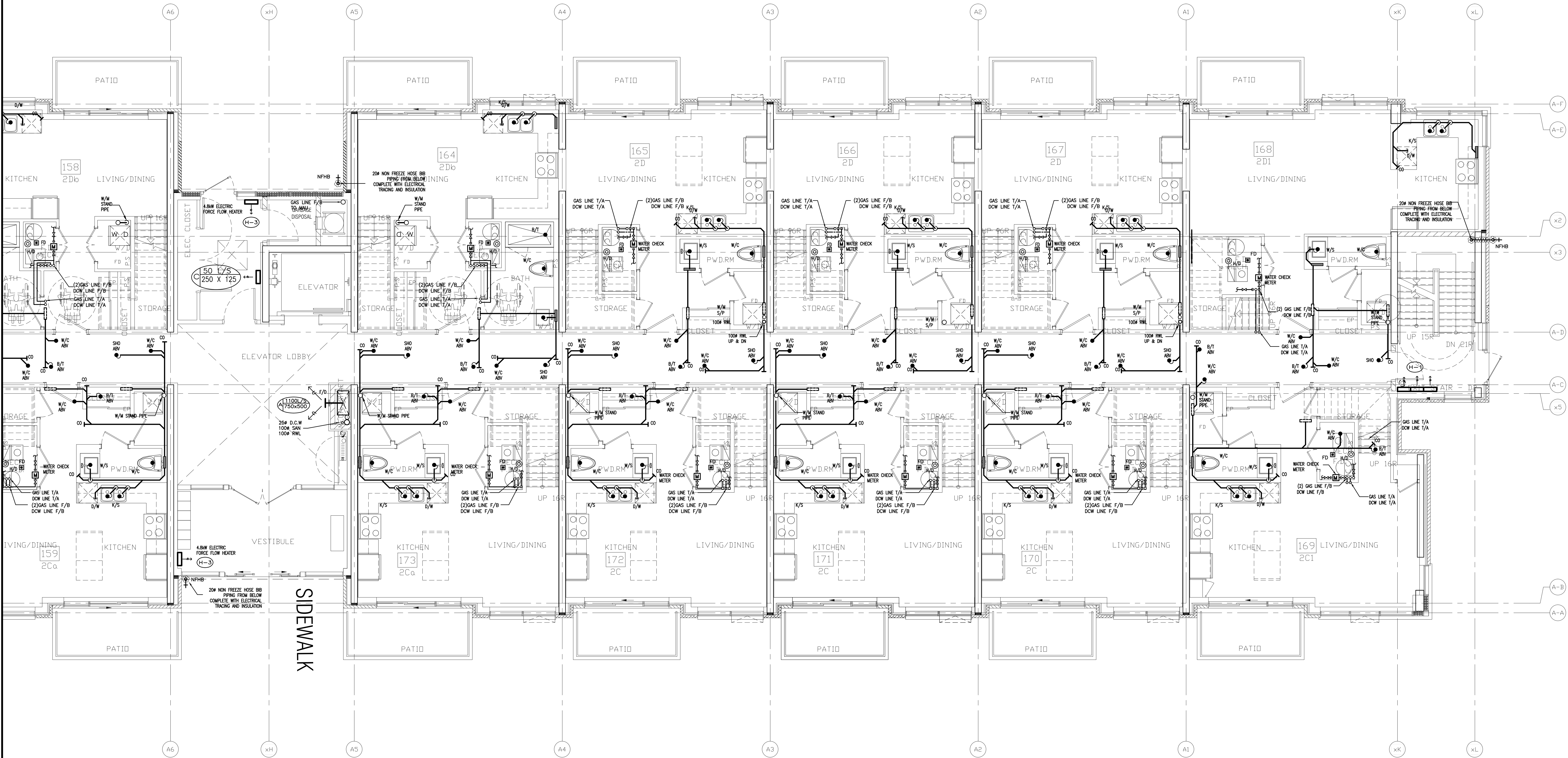


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ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

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



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

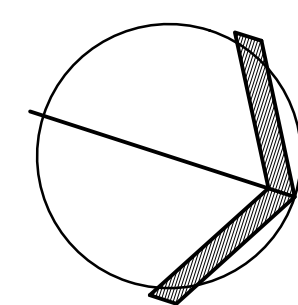
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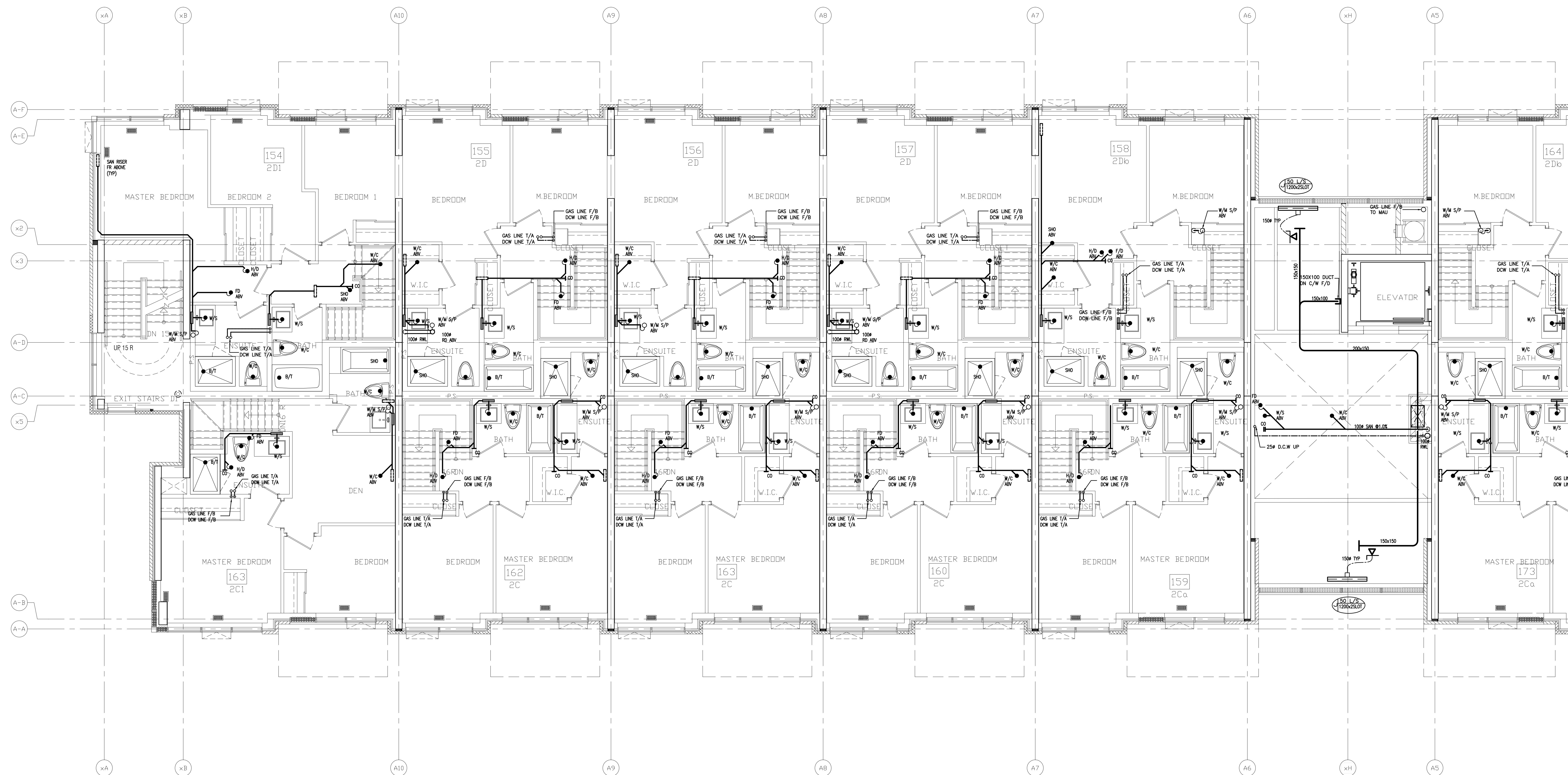
TITLE
**BUILDING A
GROUND FLOOR - PLUMBING/SANITARY**

PROJECT

**BRAMPTON STACKED
FORESTSIDE ESTATES**

**ATTMAR + PALLESCI DRIVE
BRAMPTON, ONTARIO**

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



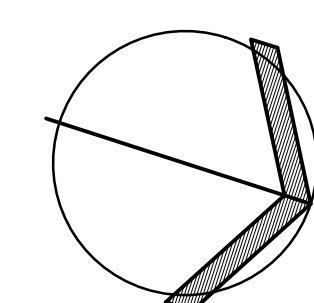
REVISIONS		
NO.	BY	DESCRIPTION
02	RC	ADDENDUM #04
01	RC	ISSUED FOR TENDER

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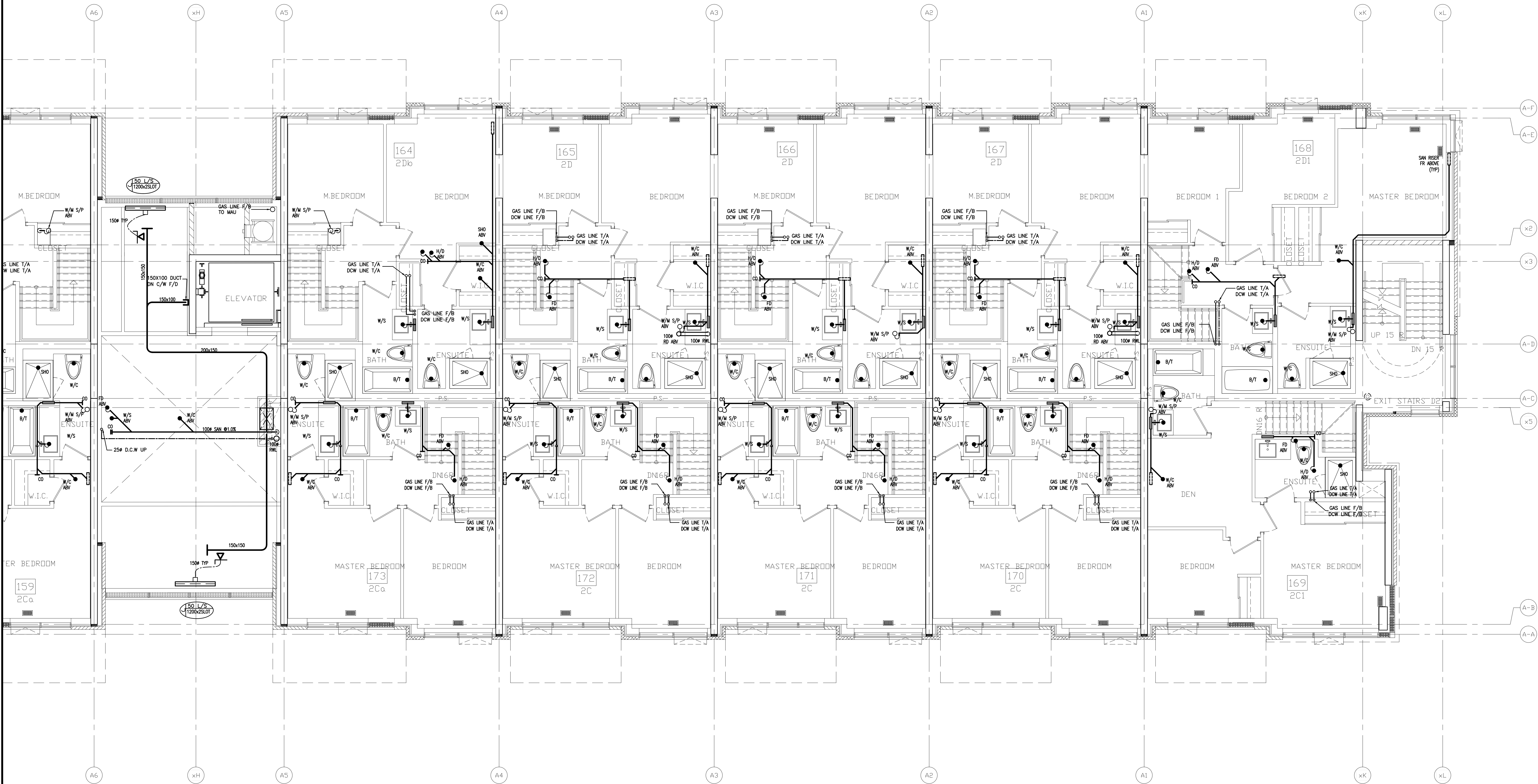
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TITLE		
BUILDING A 2ND FLOOR - PLUMBING/SANITARY		
PROJECT		
BRAMPTON STACKED FORESTSIDE ESTATES		
ATTMAR + PALLESCHI DRIVE BRAMPTON, ONTARIO		
DRAWN MC	CHECKED LM	SCALE 1:50
DATE MAY, 2019	PROJECT 18-017	DRAWING M-7 OF -



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

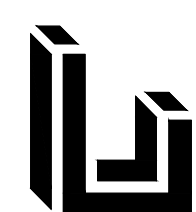
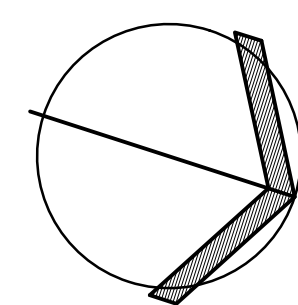
REVISIONS

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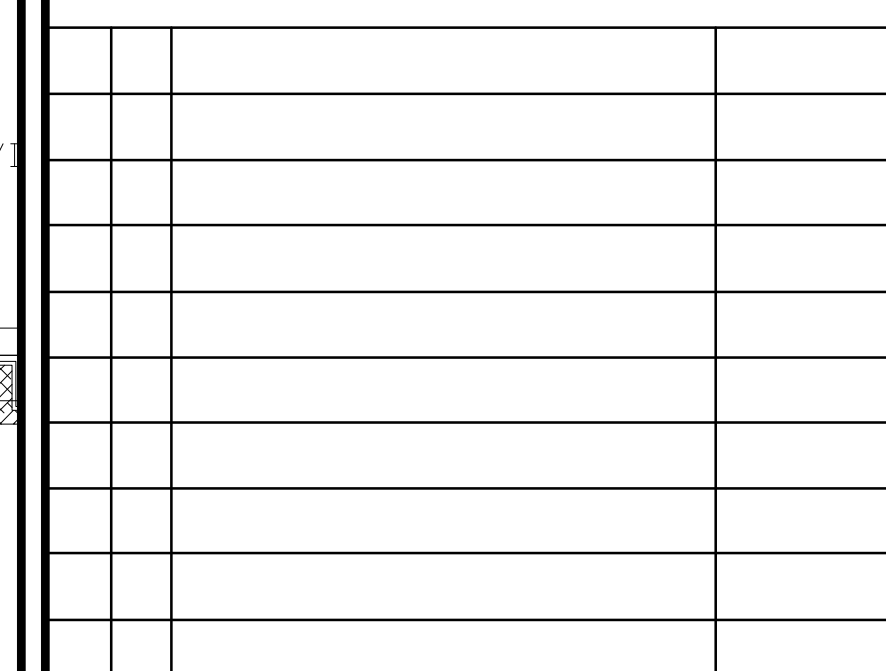
TITLE
**BUILDING A
2ND FLOOR - PLUMBING/SANITARY**

PROJECT

**BRAMPTON STACKED
FORESTSIDE ESTATES**

**ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO**

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

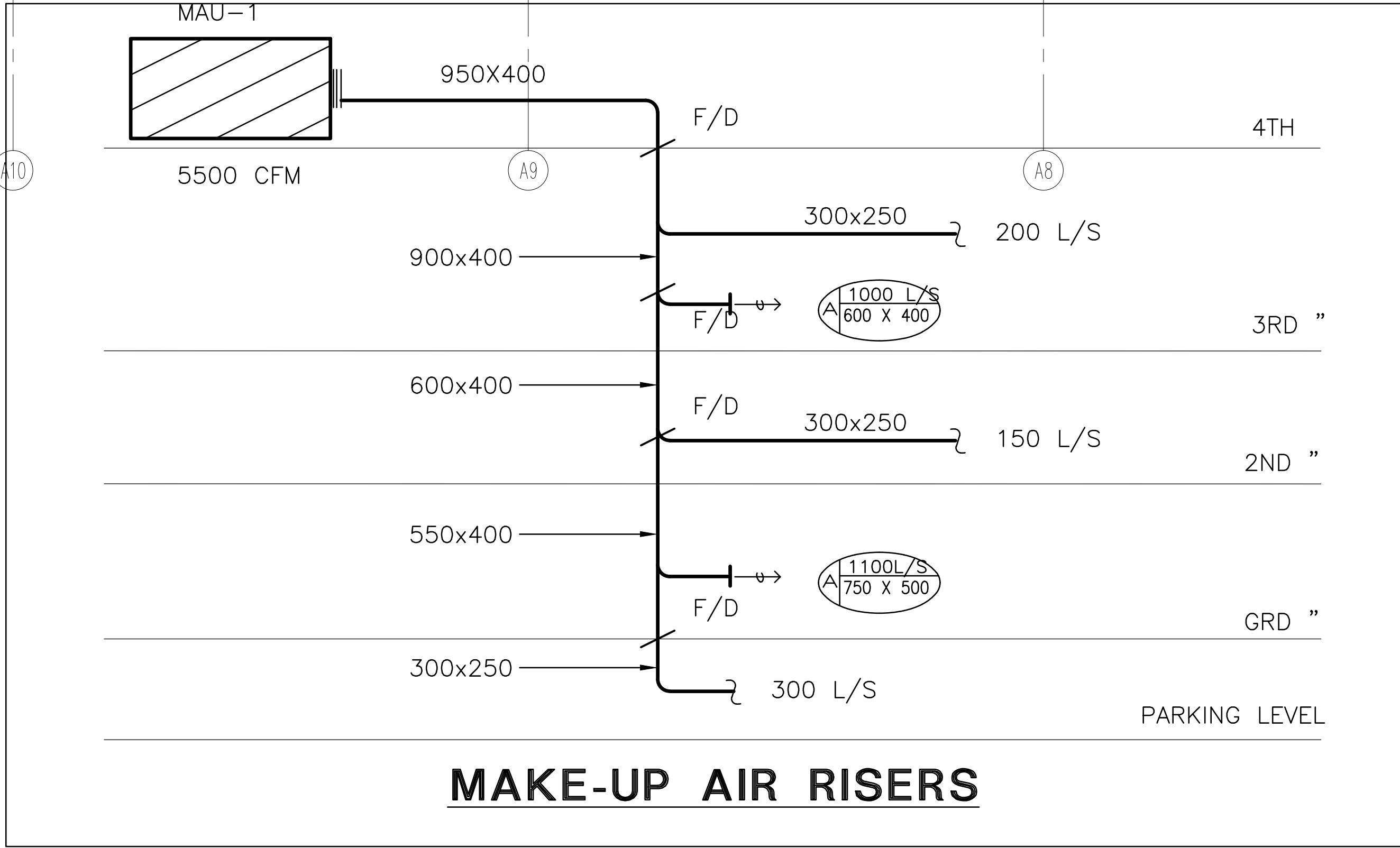
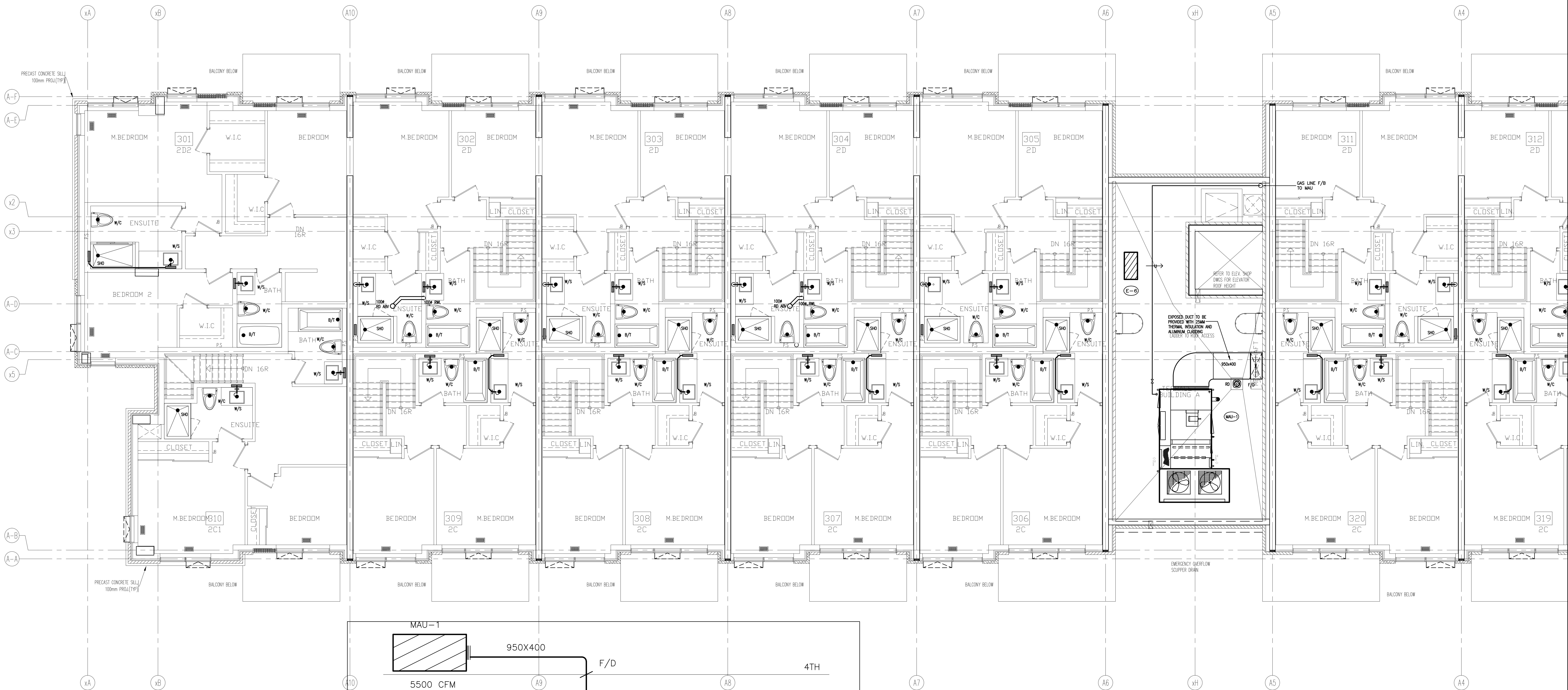


REVISIONS	
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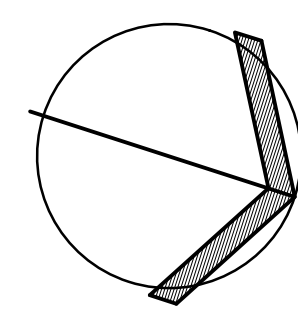
DRAWN MC	CHECKED LM	SCALE 1:50
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DRAWN MC	CHECKED LM	SCALE 1:50
DATE MAY, 2019	PROJECT 18-017	DRAWING M-9
		OF -



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

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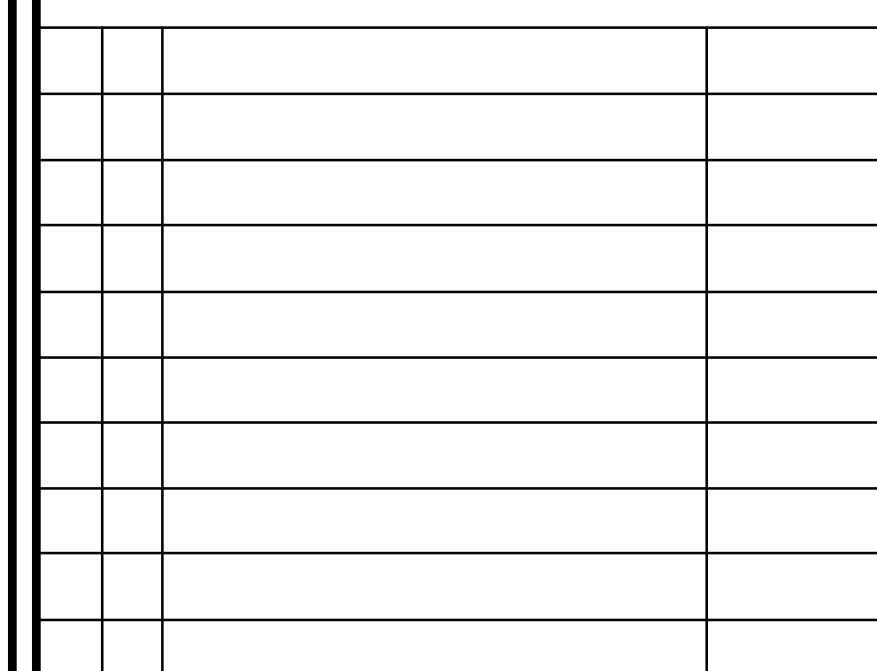
TITLE
**BUILDING A
4TH FLOOR - PLUMBING/SANITARY**

PROJECT

**BRAMPTON STACKED
FORESTSIDE ESTATES**

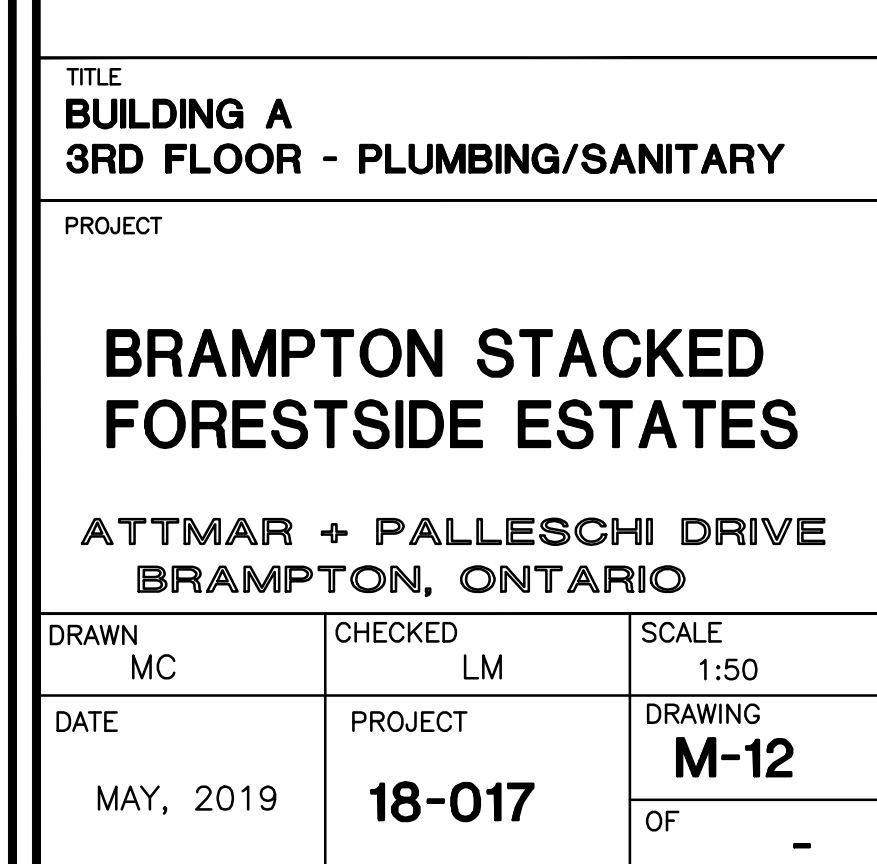
**ATTMAR + PALLESCI DRIVE
BRAMPTON, ONTARIO**

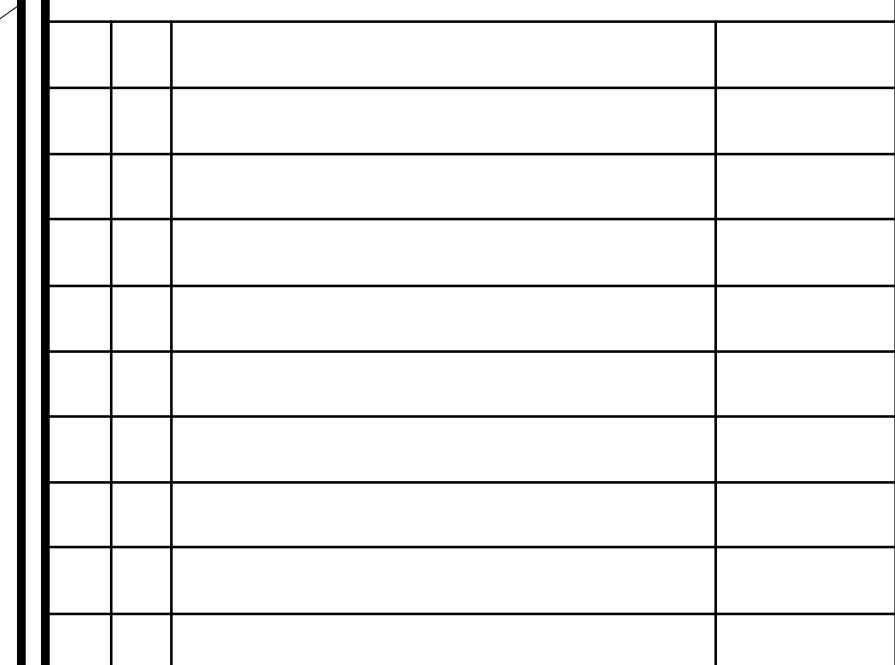
DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-11



REVISIONS

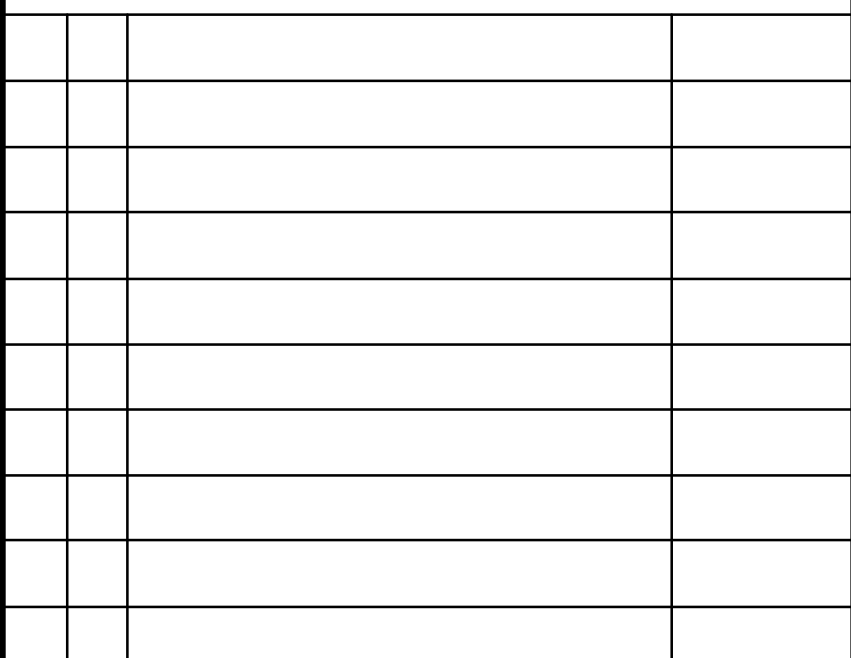
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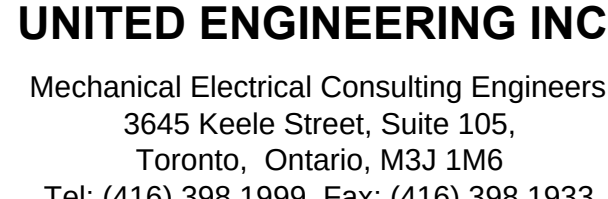
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ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

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



REVISIONS



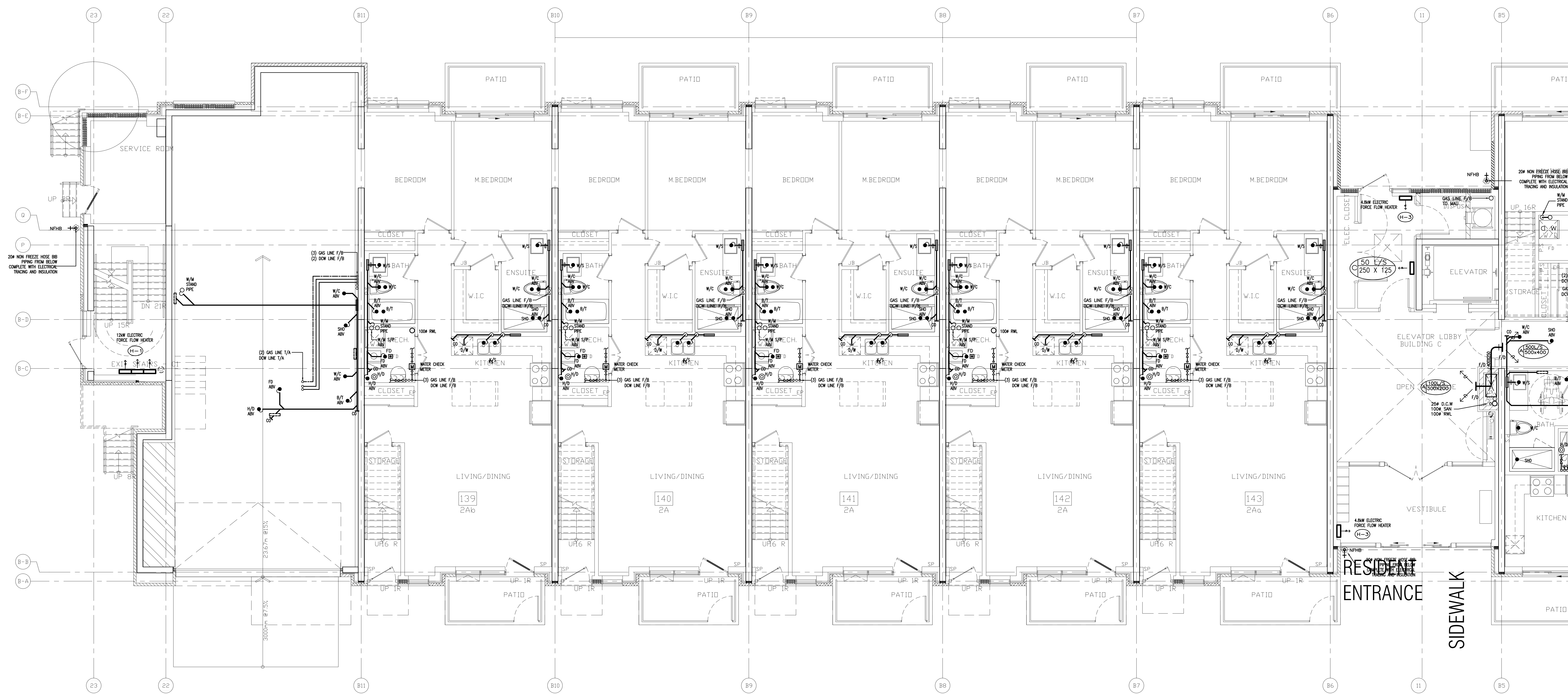
TITLE
BUILDING A
ROOF - PLUMBING/SANITARY

PROJECT

**BRAMPTON STACKED
FORESTSIDE ESTATES**

ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

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



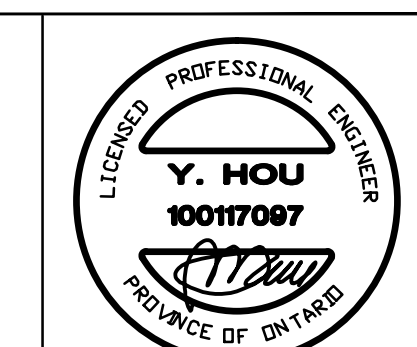
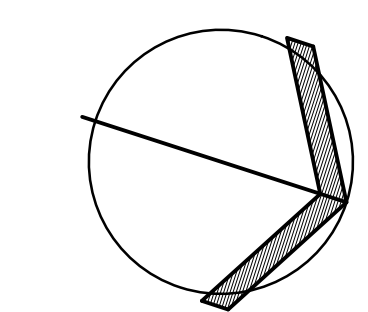
REVISIONS		
NO.	BY	DESCRIPTION
02	RC	ADDENDUM #04
01	RC	ISSUED FOR TENDER

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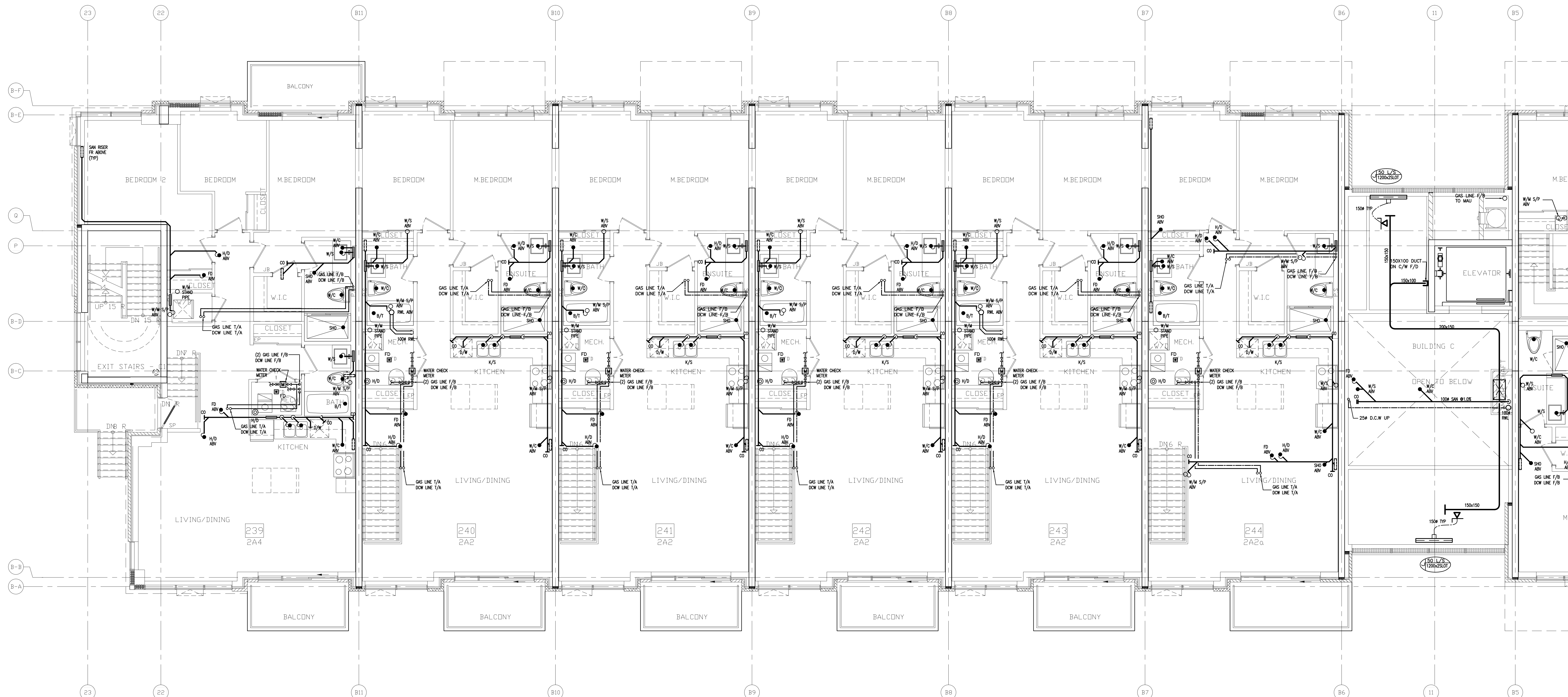
Refer to the appropriate trade drawings before proceeding with any work. Installation must conform to all applicable codes and requirements of the authorities having jurisdiction.

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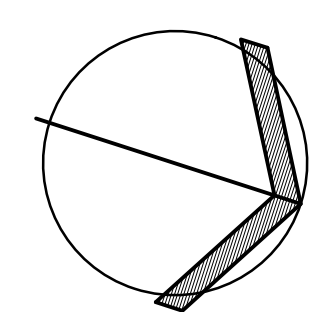
UNITED ENGINEERING INC.
Mechanical Electrical Consulting Engineers
3645 Keele Street, Suite 105,
Toronto, Ontario, M3J 1M6
Tel: (416) 398 1999, Fax: (416) 398 1933

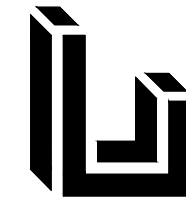
BUILDING B GROUND FLOOR - PLUMBING/SANITARY		
PROJECT		
BRAMPTON STACKED FORESTSIDE ESTATES		
ATTMAR + PALLESCI DRIVE BRAMPTON, ONTARIO		
DRAWN MC	CHECKED LM	SCALE 1:50
DATE MAY, 2019	PROJECT 18-017	DRAWING M-15 OF -



REVISIONS		
NO.	BY	DESCRIPTION
02	RC	ADDENDUM #04
01	RC	ISSUED FOR TENDER

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BUILDING B
2ND FLOOR - PLUMBING/SANITARY

BRAMPTON STACKED FORESTSIDE ESTATES

ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN
MC

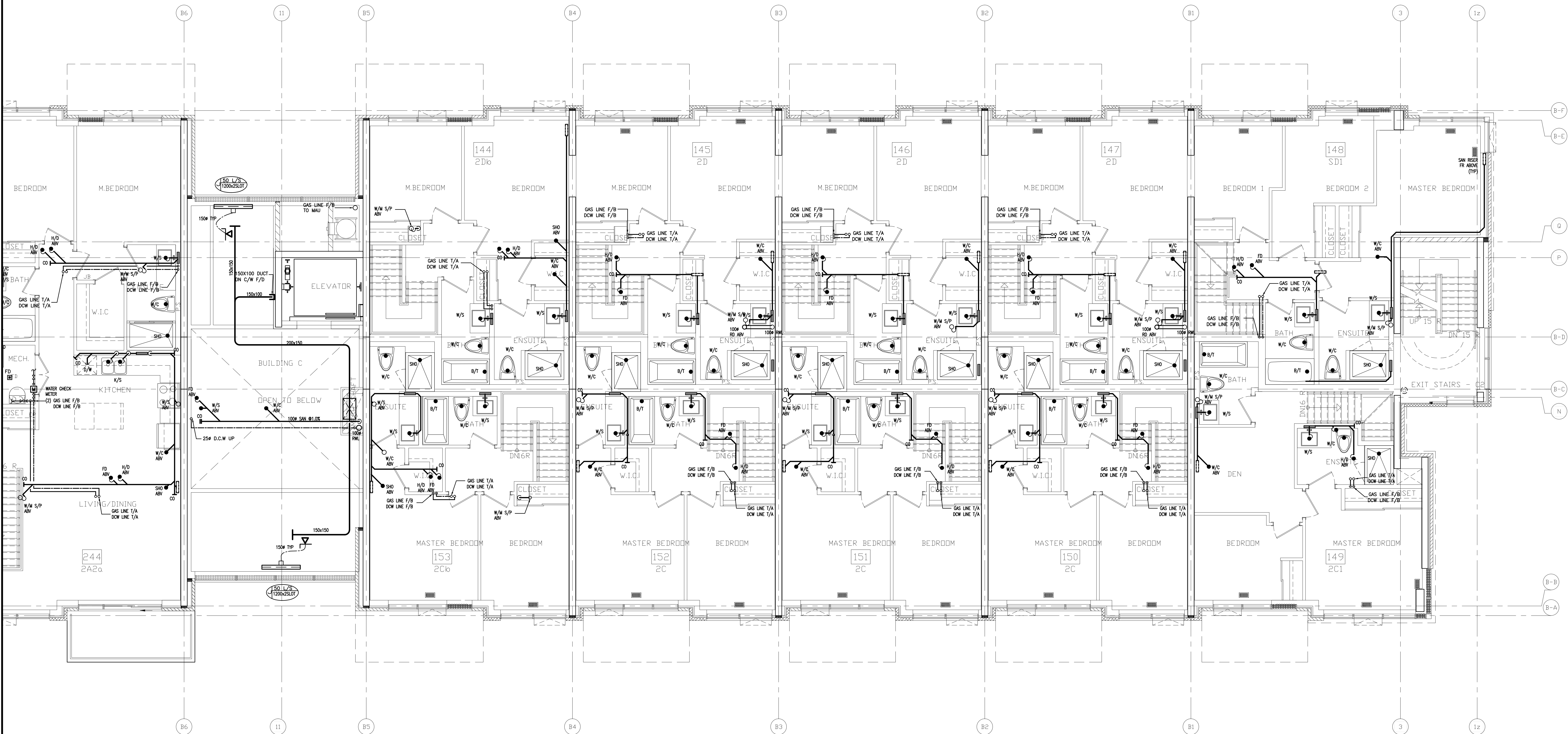
CHECKED
LM

DATE
MAY, 2019

SCALE
1:50

DRAWING
M-17

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

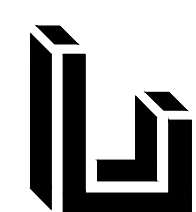
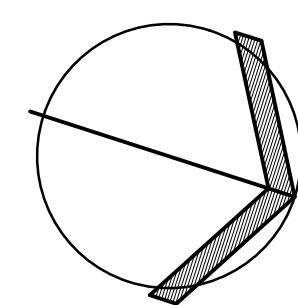
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TITLE
**BUILDING B
2ND FLOOR - PLUMBING/SANITARY**

PROJECT

**BRAMPTON STACKED
FORESTSIDE ESTATES**

**ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO**

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



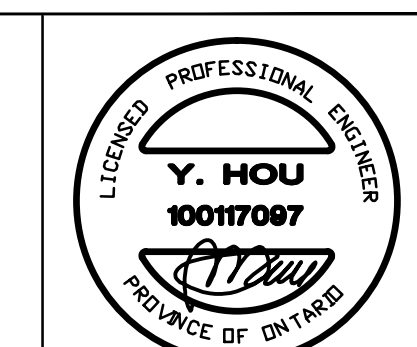
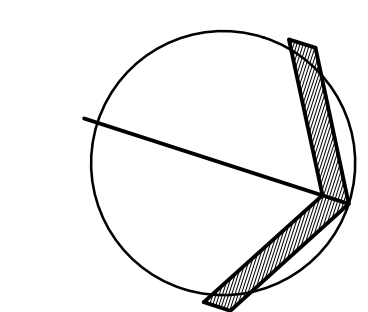
NO.	BY	DESCRIPTION	DATE
01	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019
REVISIONS			

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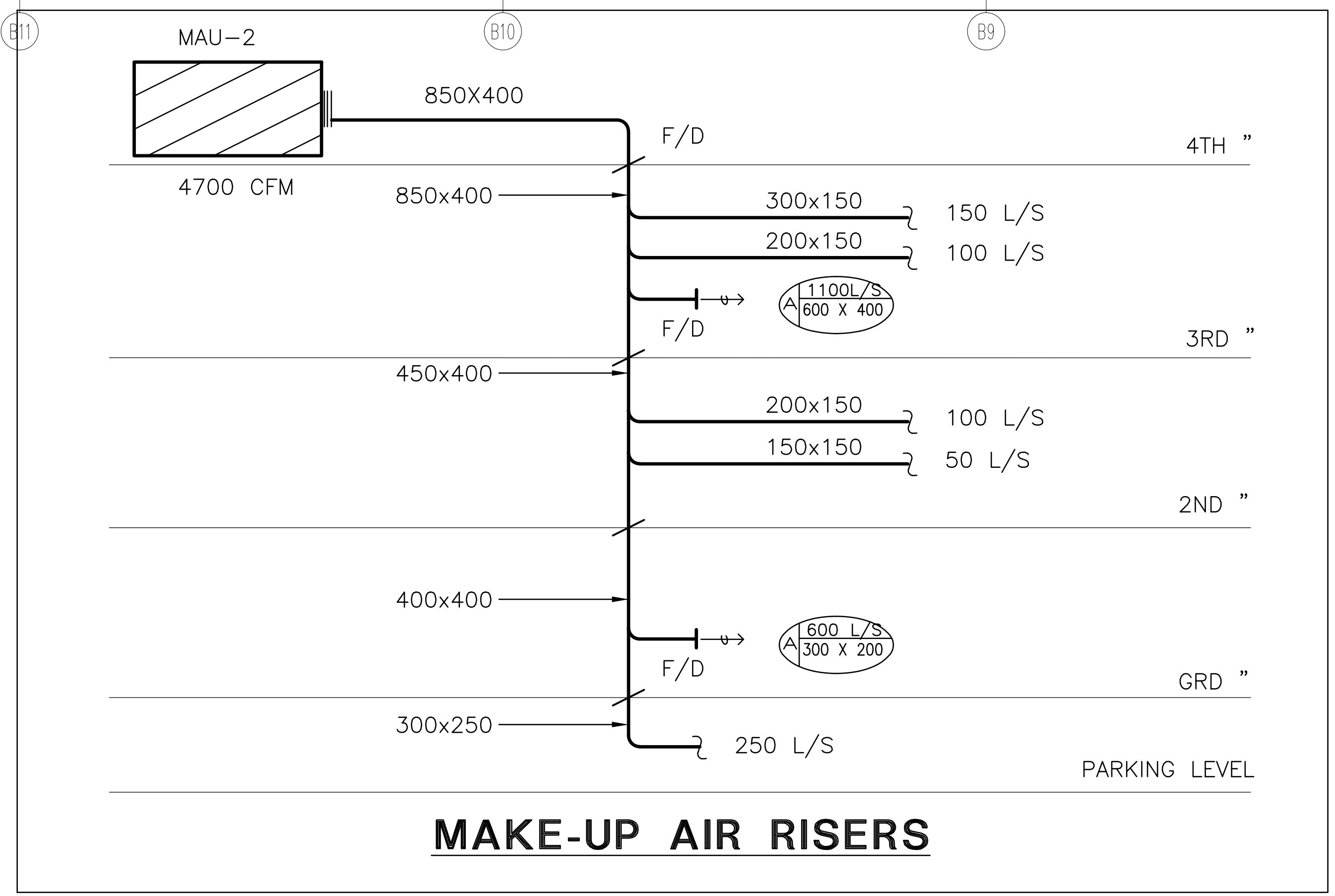
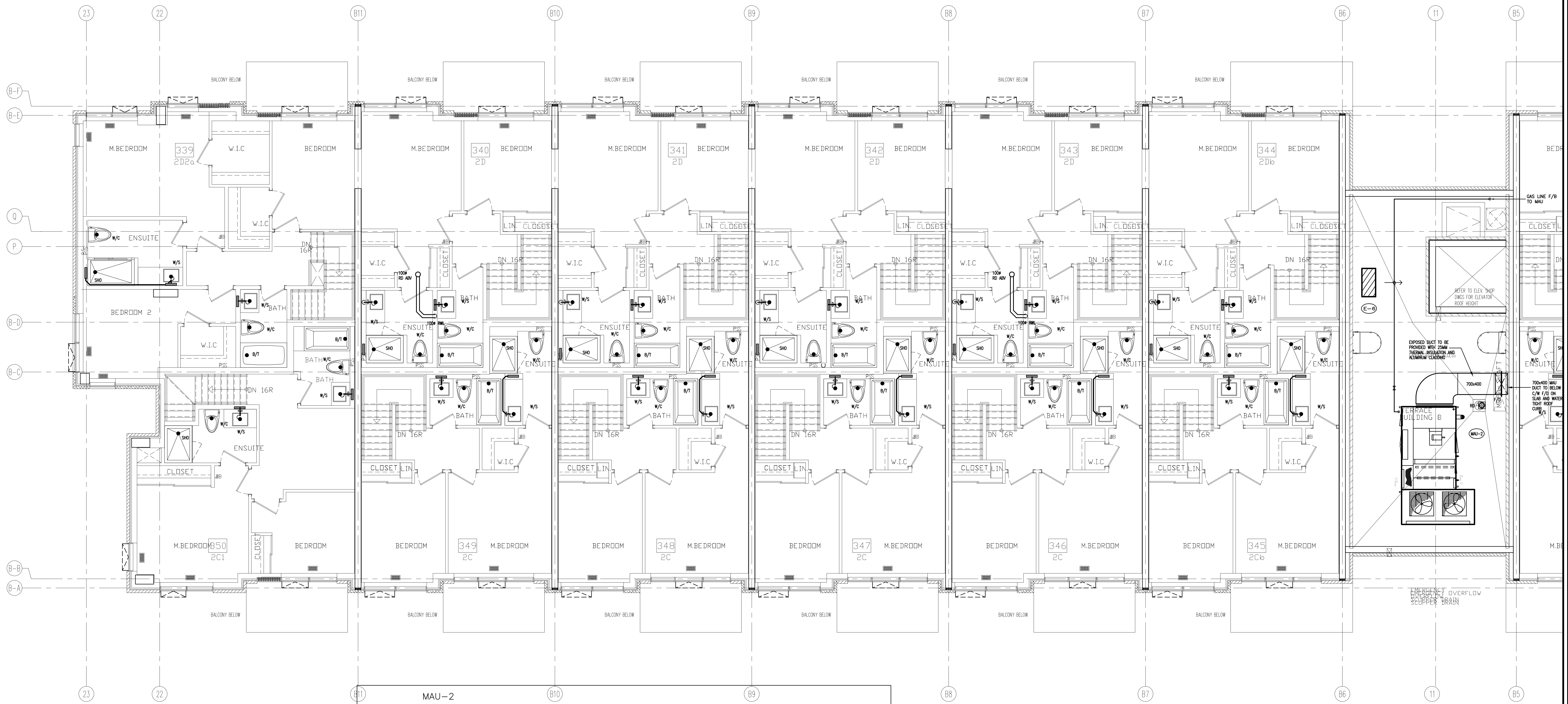
TITLE
**BUILDING B
3RD FLOOR - PLUMBING/SANITARY**

PROJECT

**BRAMPTON STACKED
FORESTSIDE ESTATES**

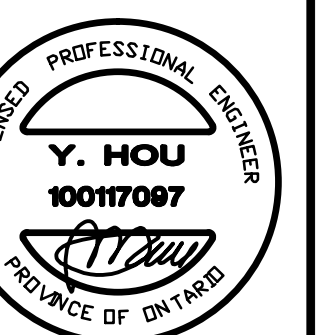
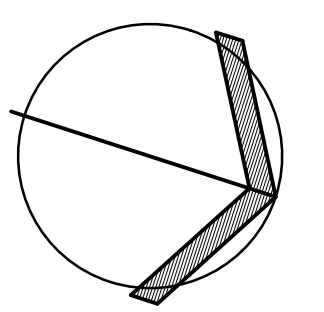
**ATTMAR + PALLESCI DRIVE
BRAMPTON, ONTARIO**

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



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

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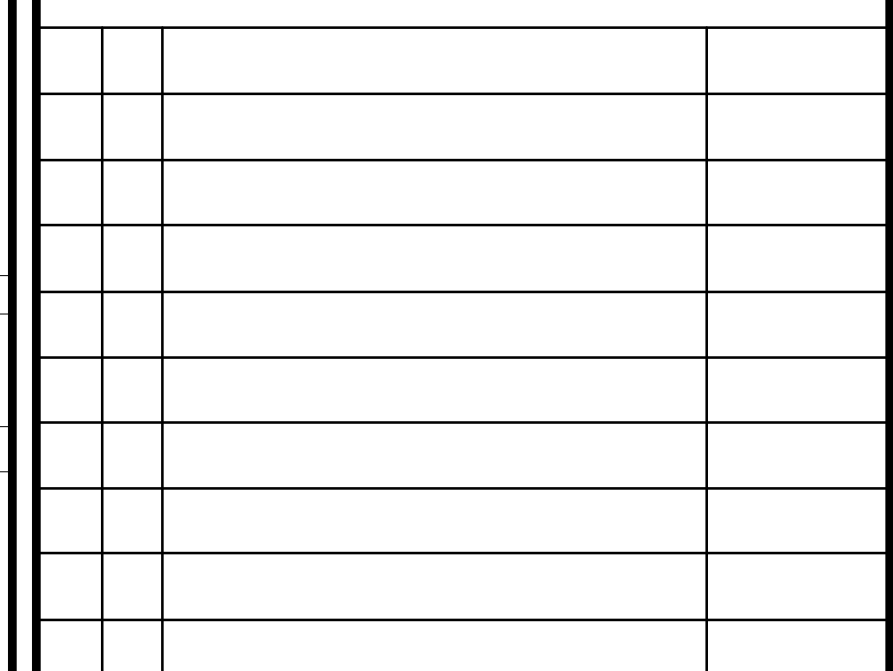
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Toronto, Ontario, M3J 1M6
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TITLE
**BUILDING B
4TH FLOOR - PLUMBING/SANITARY**

PROJECT
**BRAMPTON STACKED
FORESTSIDE ESTATES**

**ATTMAR + PALLESCI DRIVE
BRAMPTON, ONTARIO**

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



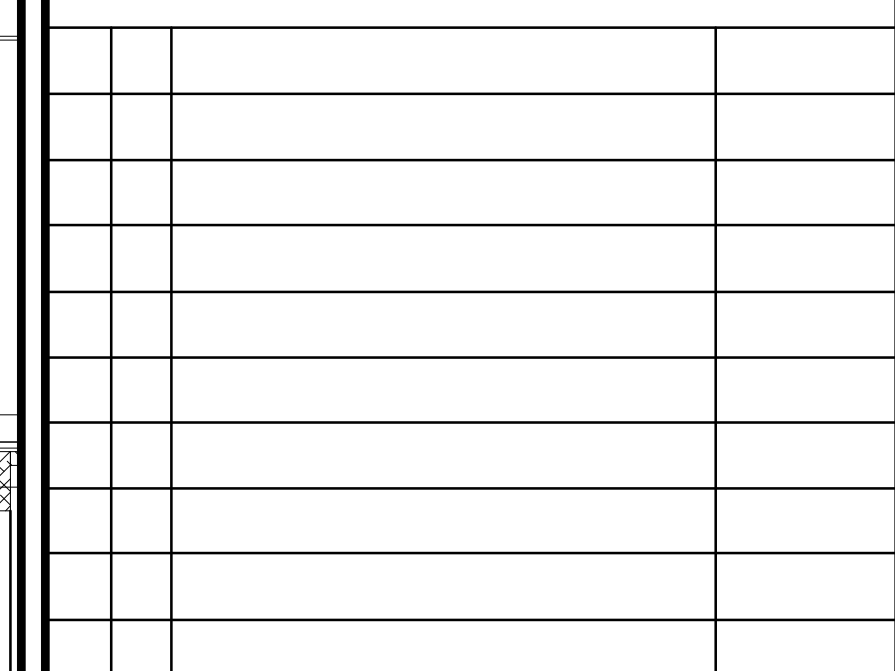
REVISIONS	
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ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

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



REVISIONS	
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ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

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



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

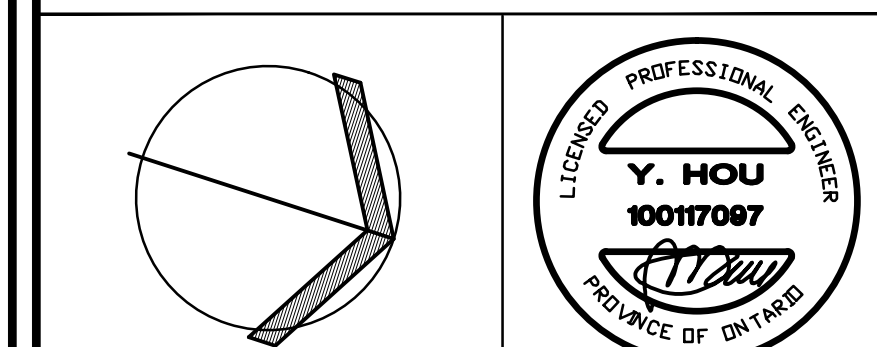
REVISIONS

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TITLE BUILDING C 3RD FLOOR - PLUMBING/SANITARY		
PROJECT		
BRAMPTON STACKED FORESTSIDE ESTATES		
ATTMAR + PALLESCI DRIVE BRAMPTON, ONTARIO		
DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-29
		OF



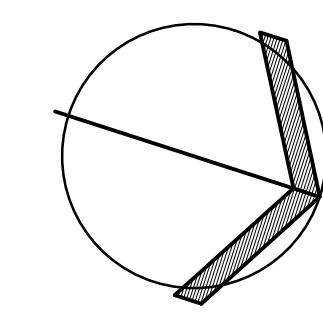
NO.	BY	DESCRIPTION	DATE
02	RC	ADDENDUM #04	JUN. 12, 2020
01	RC	ISSUED FOR TENDER	AUG. 02, 2019
REVISIONS			

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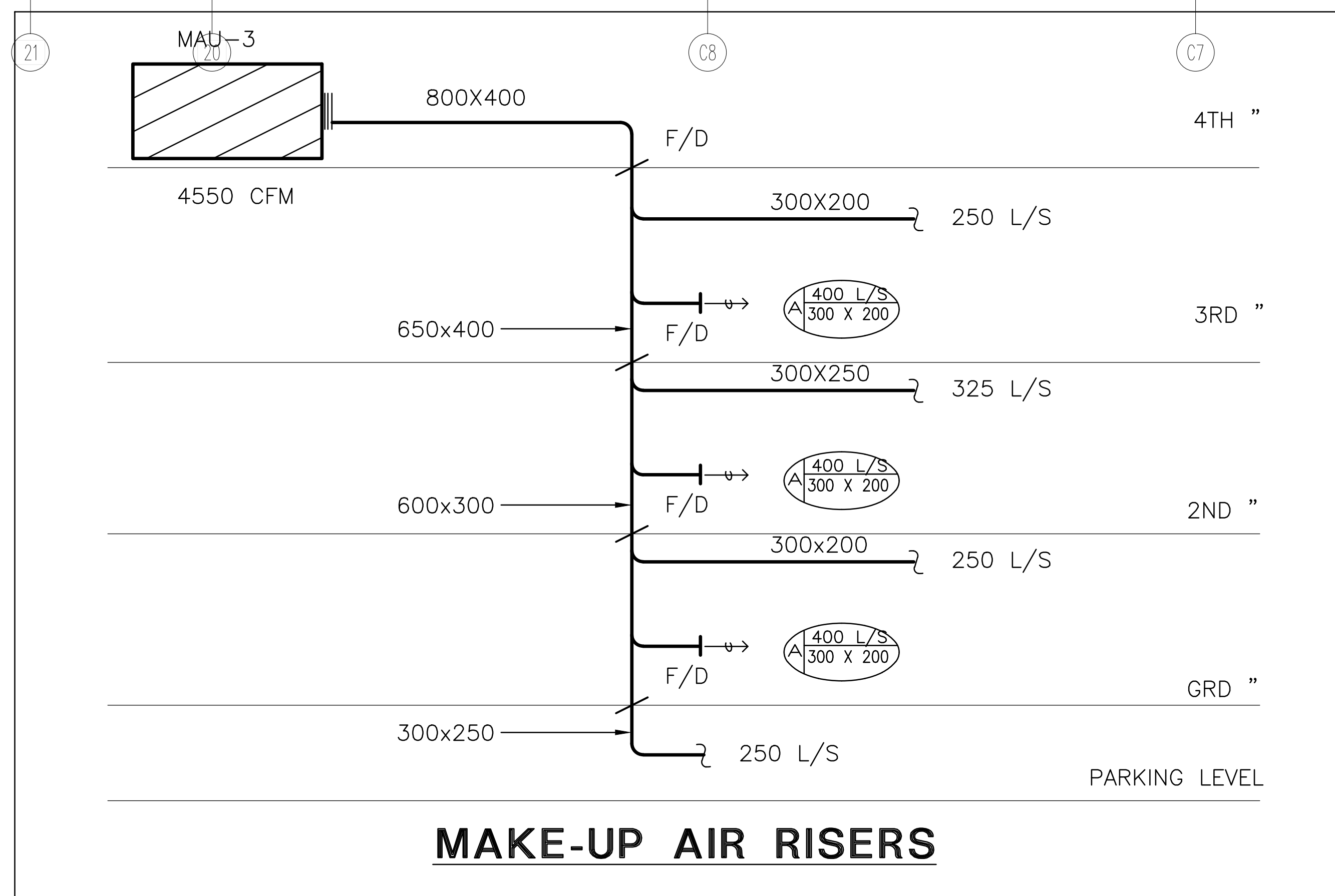
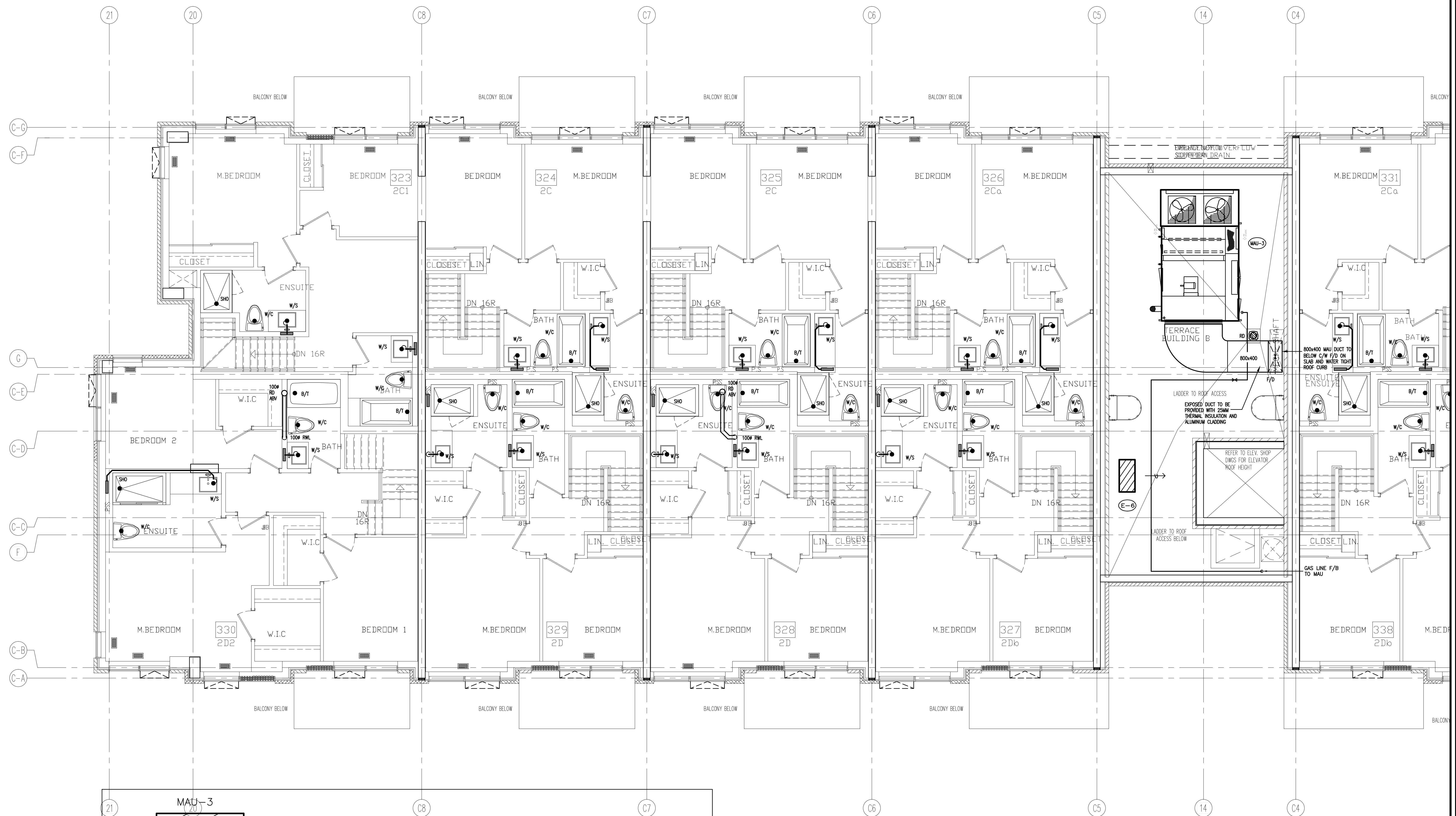
TITLE
**BUILDING C
3RD FLOOR - PLUMBING/SANITARY**

PROJECT

**BRAMPTON STACKED
FORESTSIDE ESTATES**

**ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO**

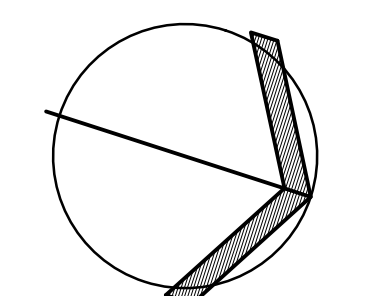
DRAWN	CHECKED	SCALE
MC	LM	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	M-30
		OF -



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

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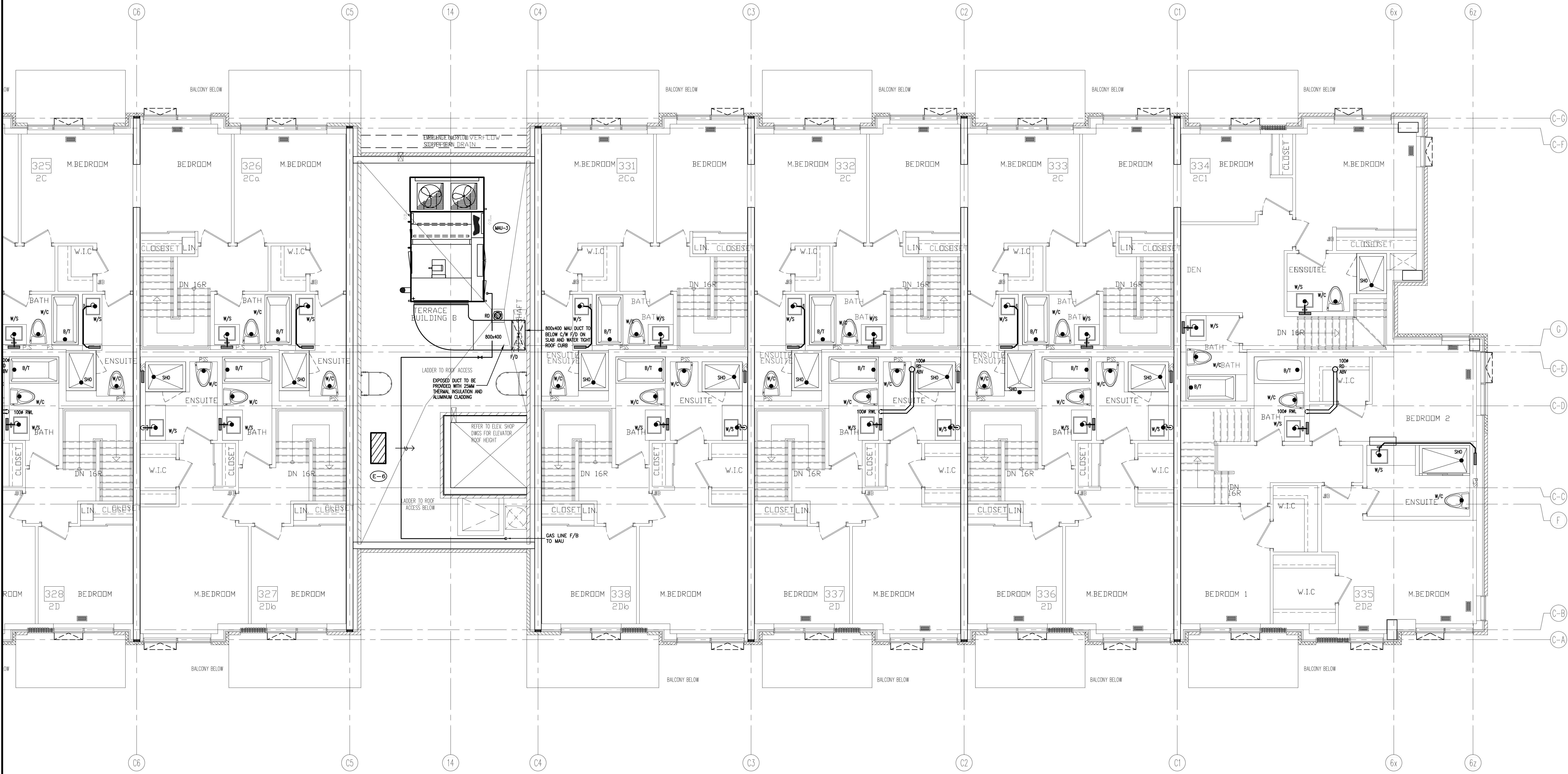
UNITED ENGINEERING INC.
Mechanical Electrical Consulting Engineers
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Toronto, Ontario, M3J 1M6
Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE
**BUILDING C
4TH FLOOR - PLUMBING/SANITARY**

PROJECT
**BRAMPTON STACKED
FORESTSIDE ESTATES**

ATTMAR + PALLESCI DRIVE
BRAMPTON, ONTARIO

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



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

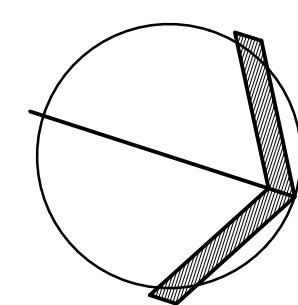
REVISIONS

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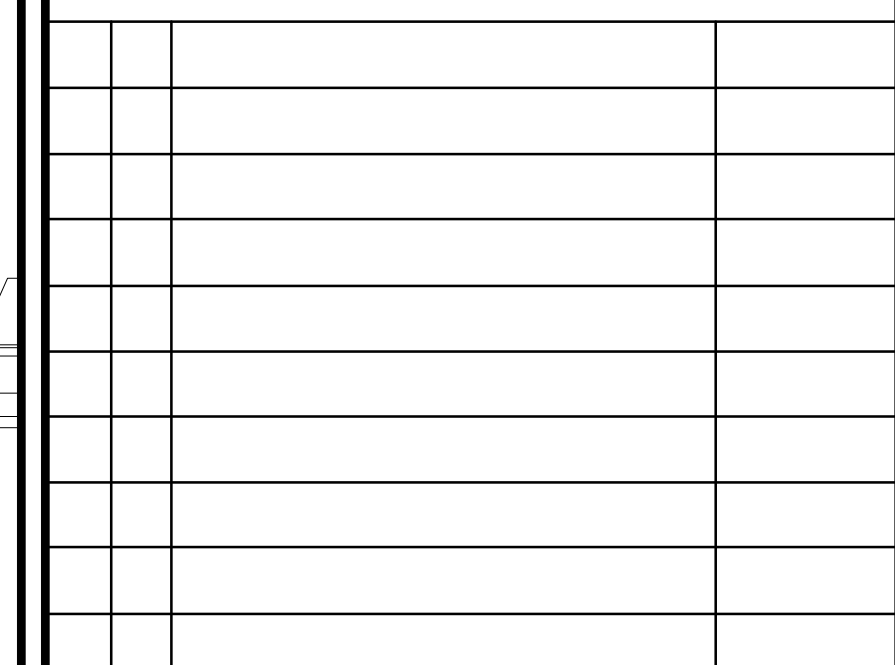
TITLE
**BUILDING C
3RD FLOOR - PLUMBING/SANITARY**

PROJECT

**BRAMPTON STACKED
FORESTSIDE ESTATES**

**ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO**

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



REVISIONS	
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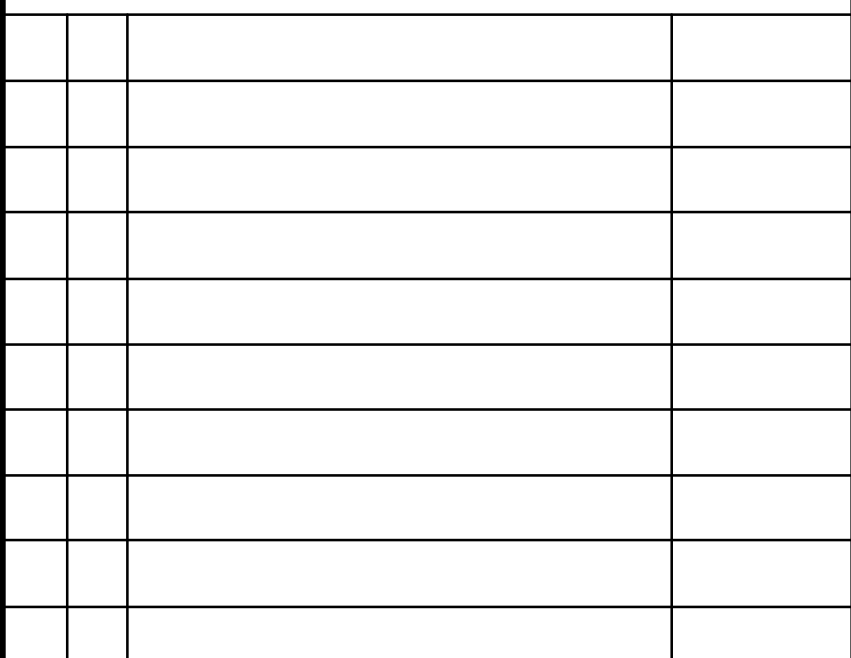
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TITLE	BUILDING C ROOF - PLUMBING/SANITARY
PROJECT	

ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

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



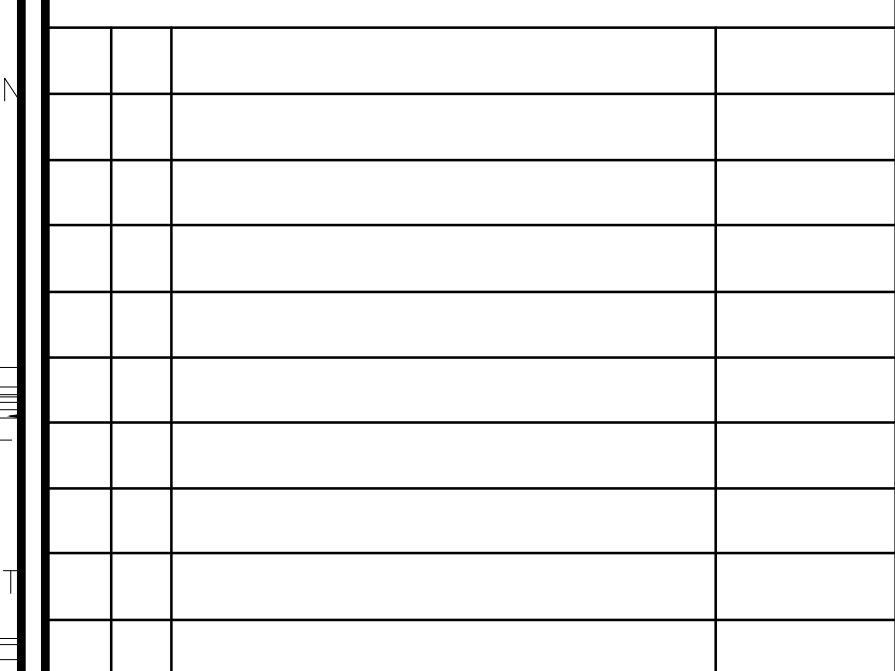
REVISIONS



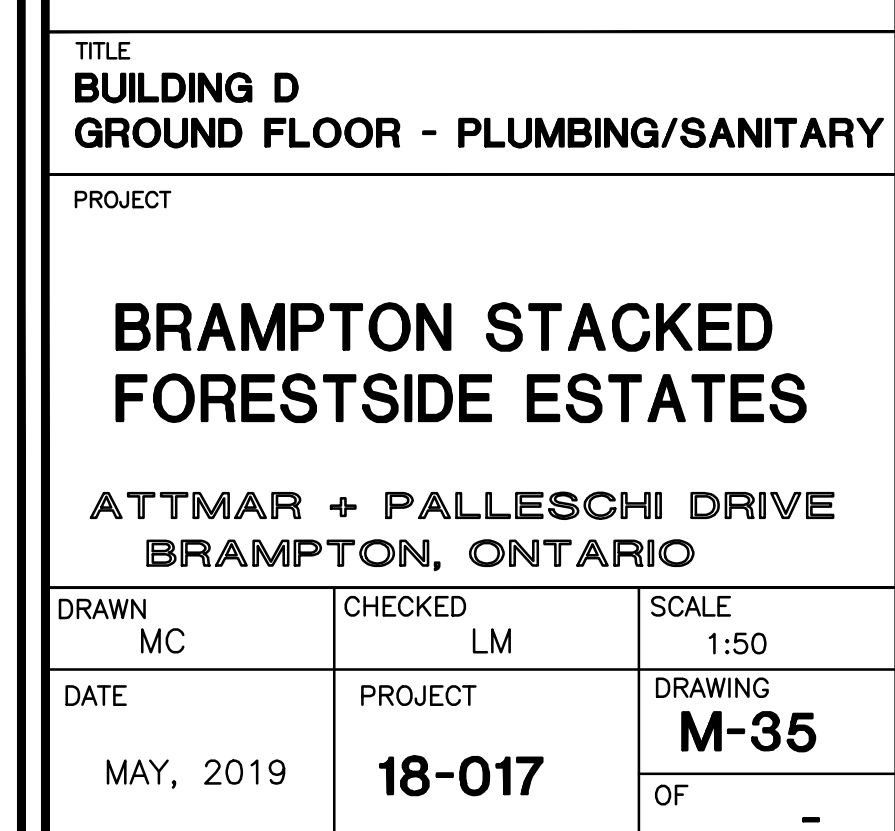
TITLE
BUILDING C
ROOF - PLUMBING/SANITARY
PROJECT

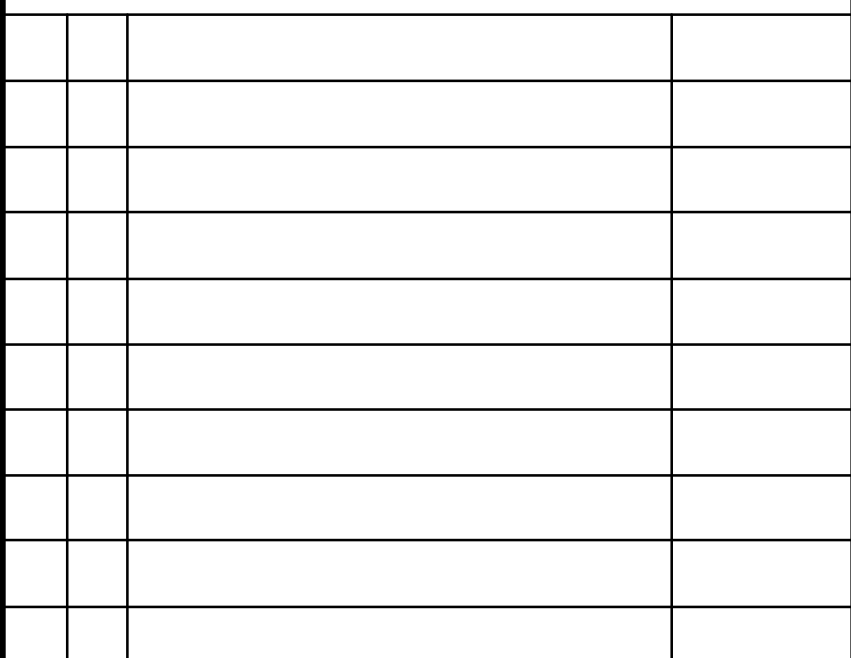
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

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

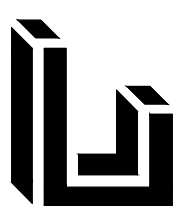


REVISIONS	
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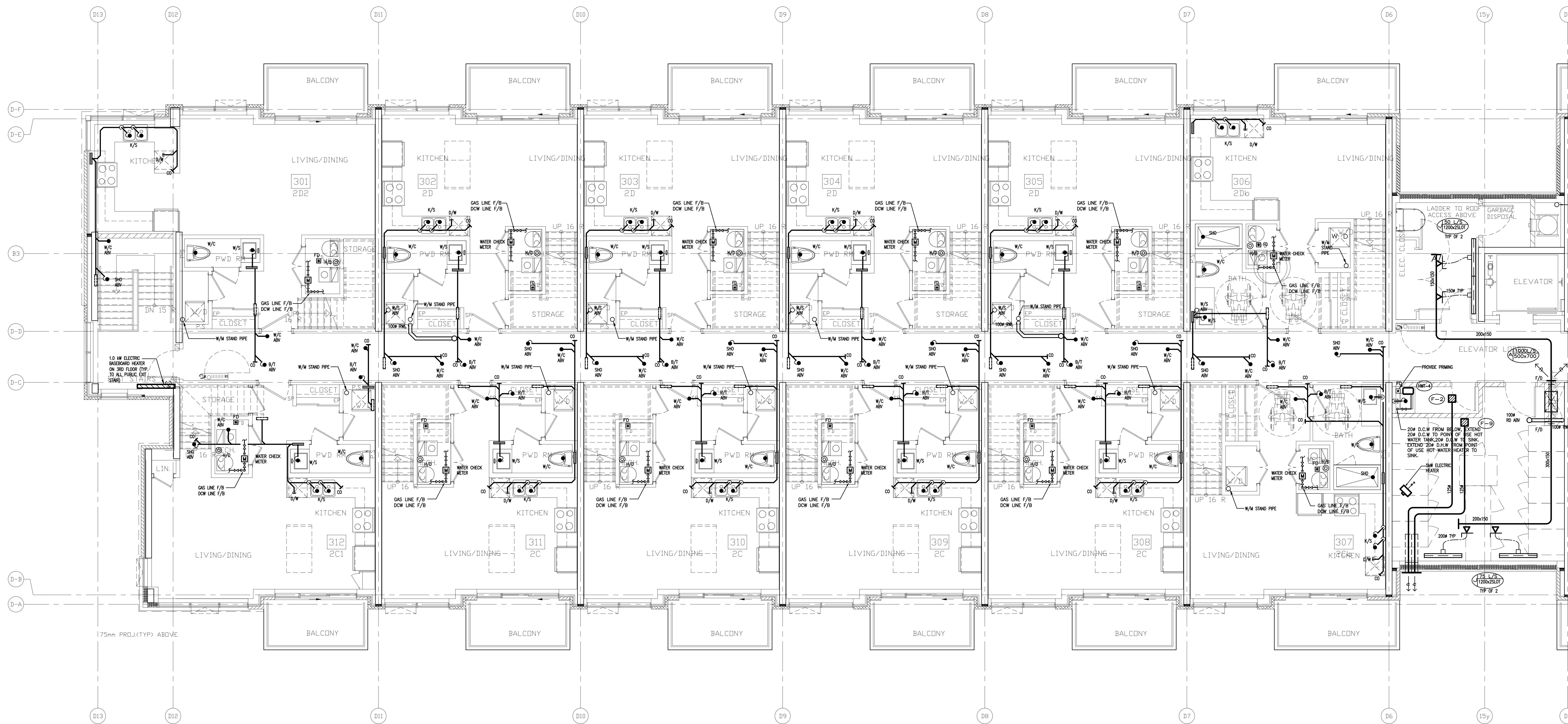


REVISIONS



TITLE
BUILDING D 2ND FLOOR - PLUMBING/SANITARY
PROJECT

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



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

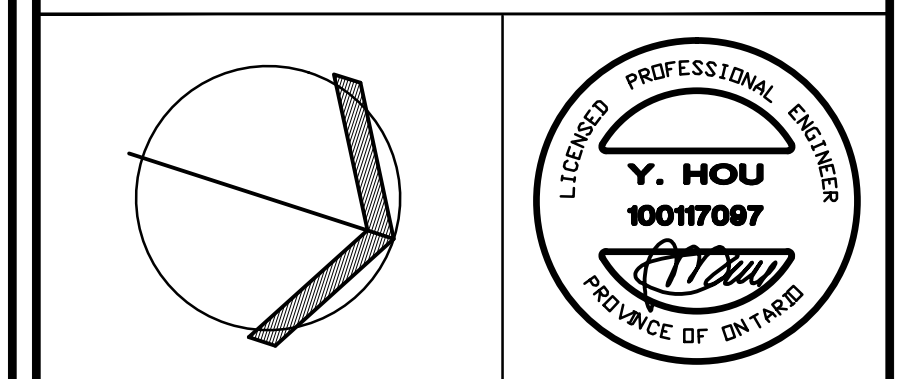
REVISIONS

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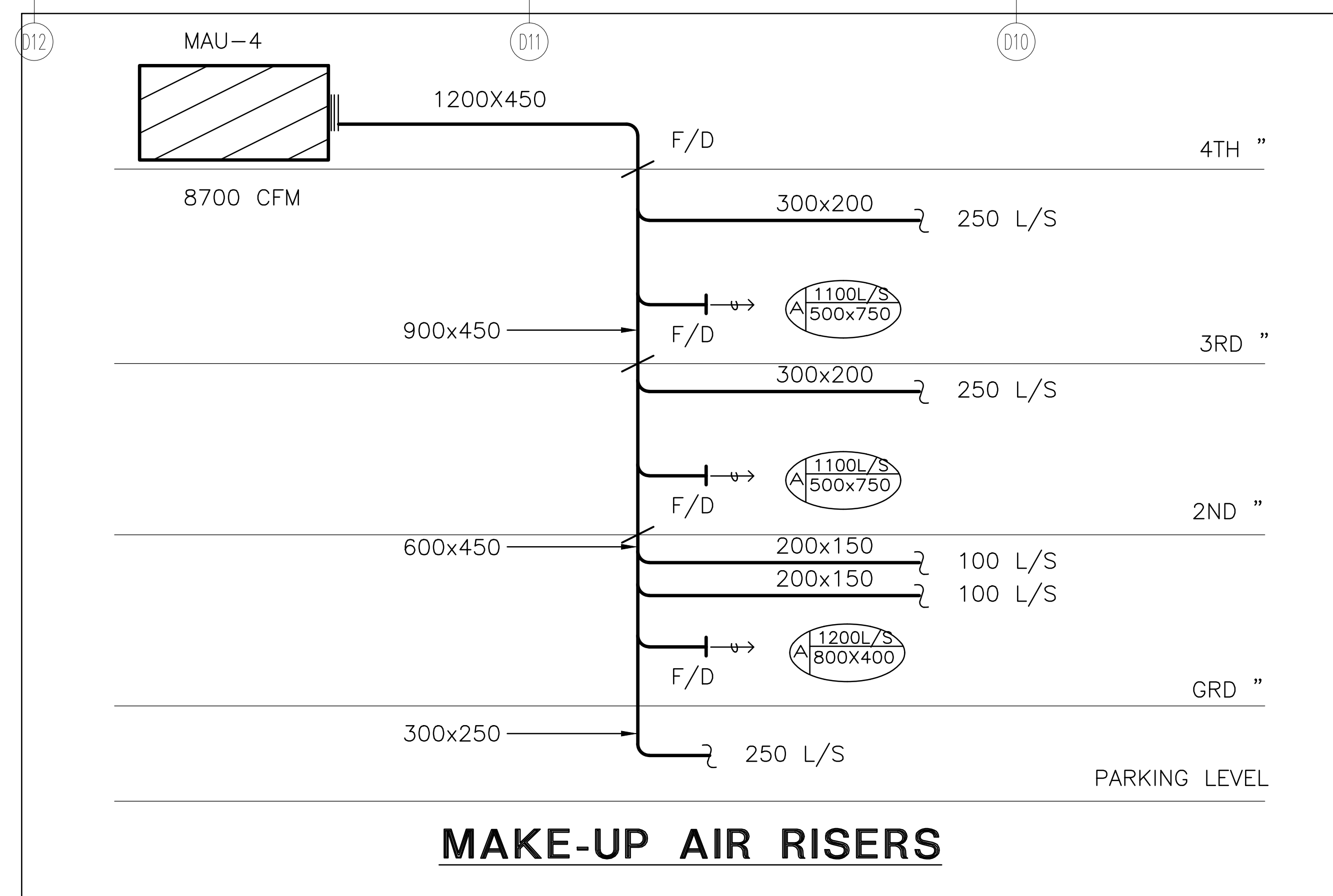
Refer to the appropriate trade drawings before proceeding with any work. Installation must conform to all applicable codes and requirements of the authorities having jurisdiction.

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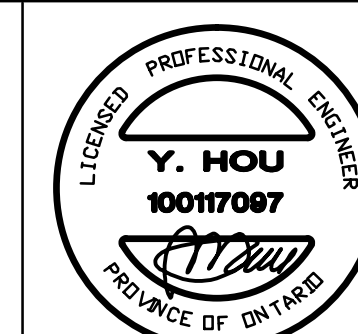


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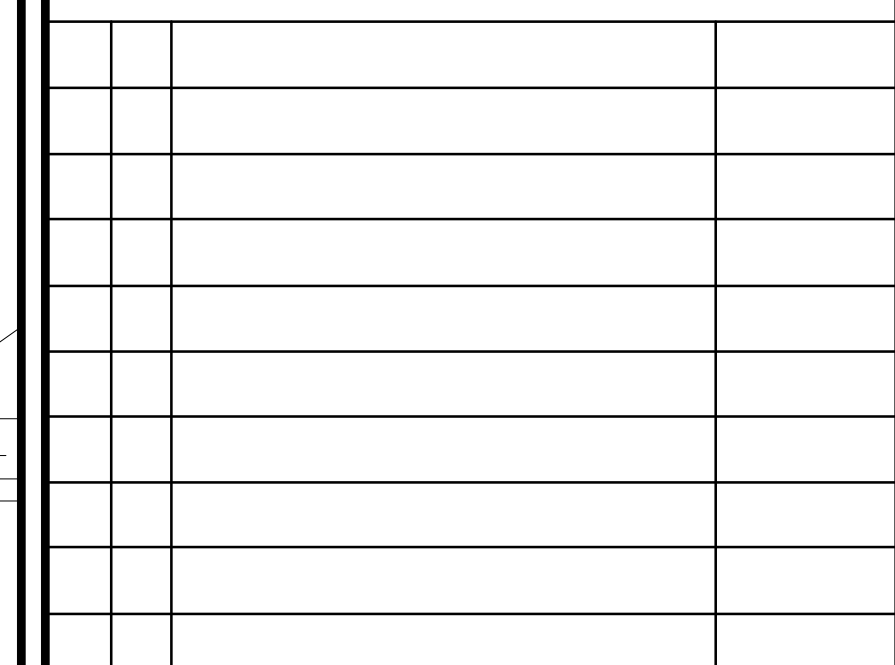
TITLE BUILDING D 3RD FLOOR - PLUMBING/SANITARY		
PROJECT BRAMPTON STACKED FORESTSIDE ESTATES ATTMAR + PALLESCI DRIVE BRAMPTON, ONTARIO		
DRAWN MC	CHECKED LM	SCALE 1:50
DATE MAY, 2019	PROJECT 18-017	DRAWING M-39 OF -



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

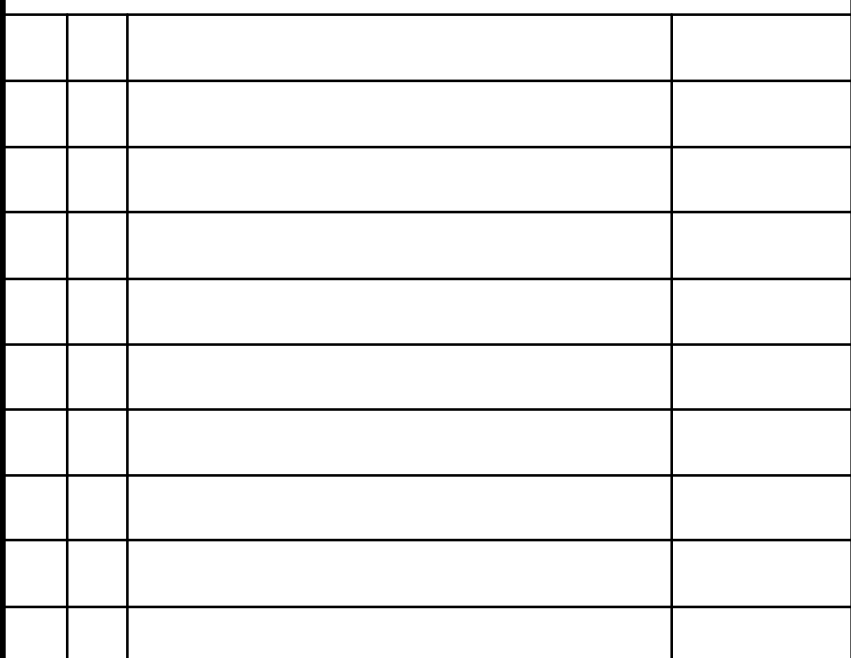


	REVISIONS
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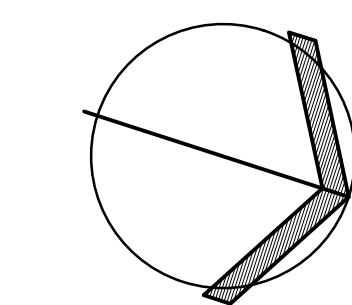


ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

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



REVISIONS



TITLE	BUILDING D ROOF - PLUMBING/SANITARY
PROJECT	

ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

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

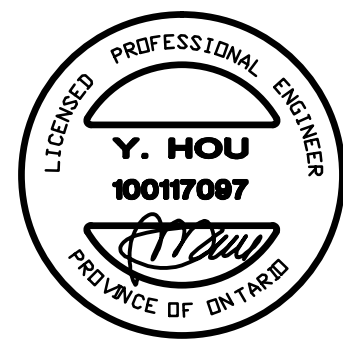


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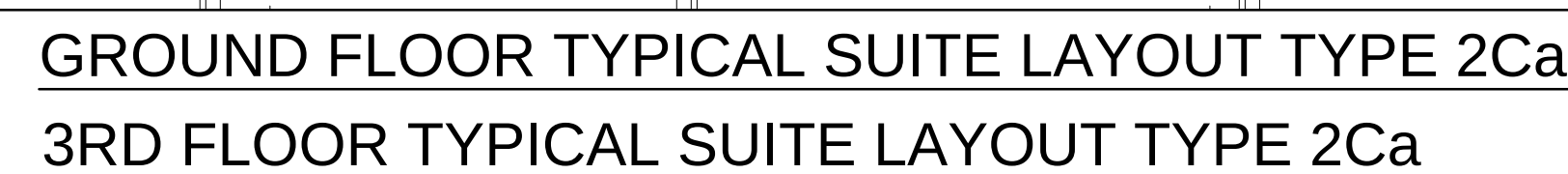
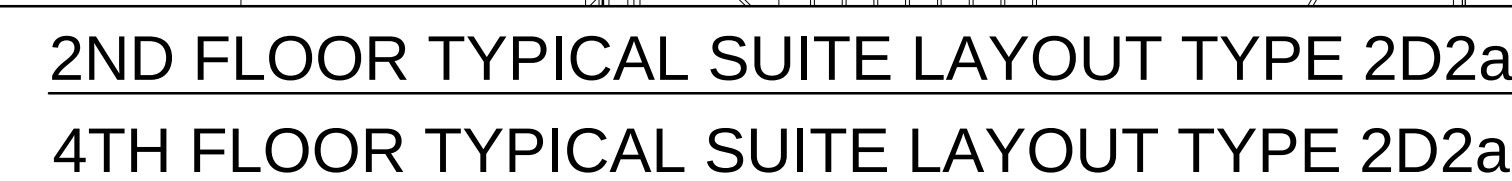
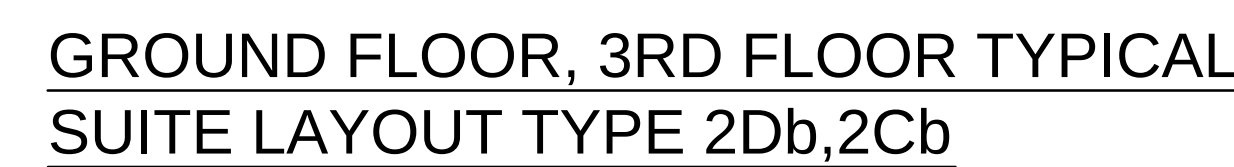
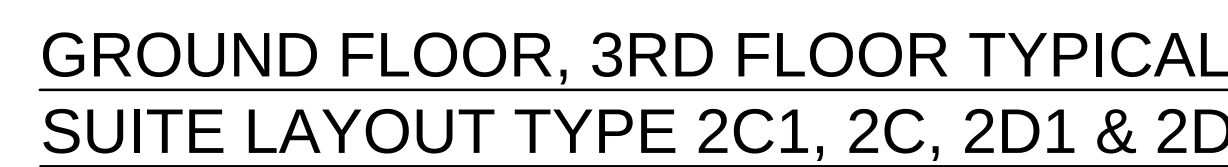
TITLE
TYPICAL SUITES LAYOUT
MECHANICAL

PROJECT

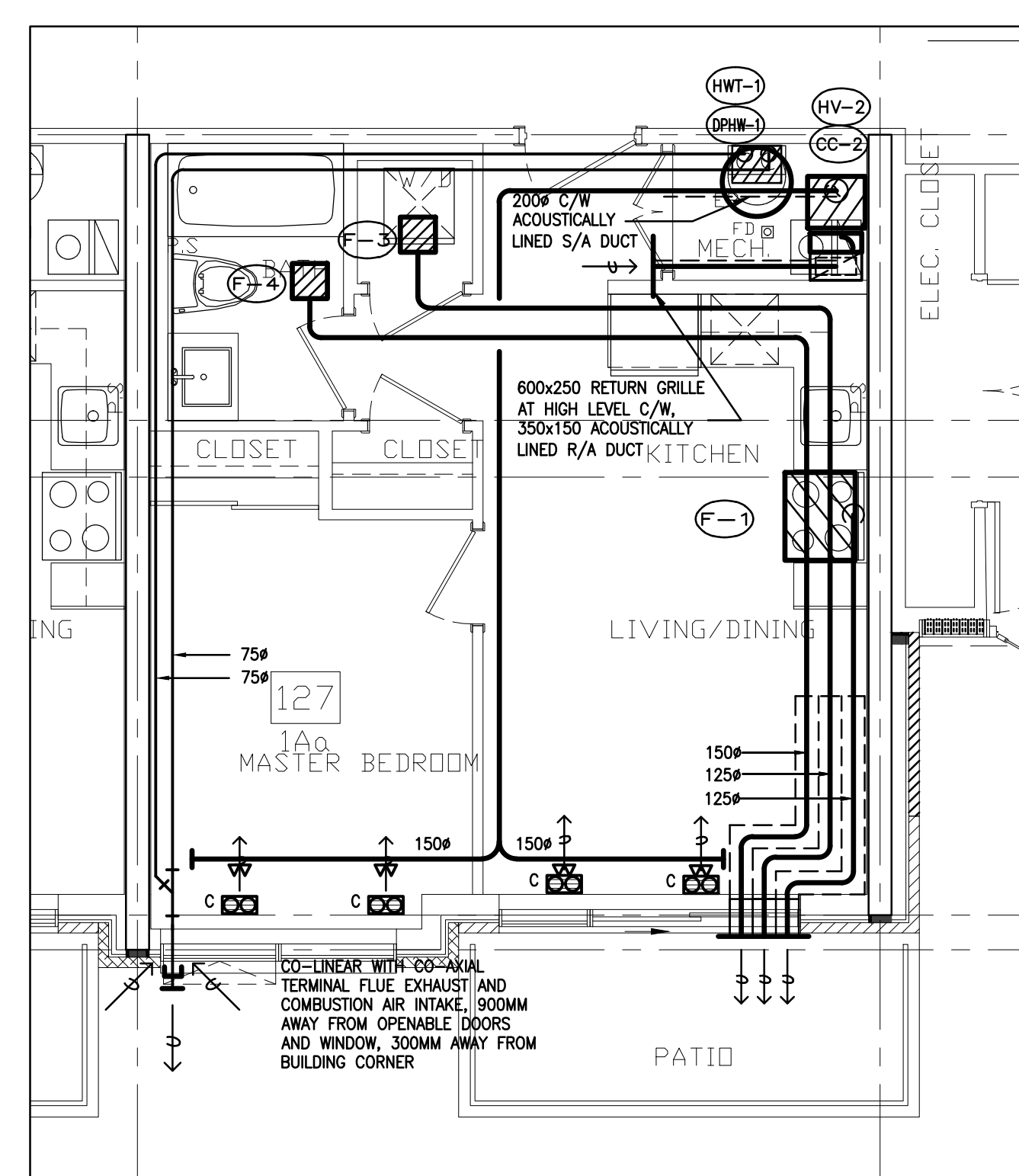
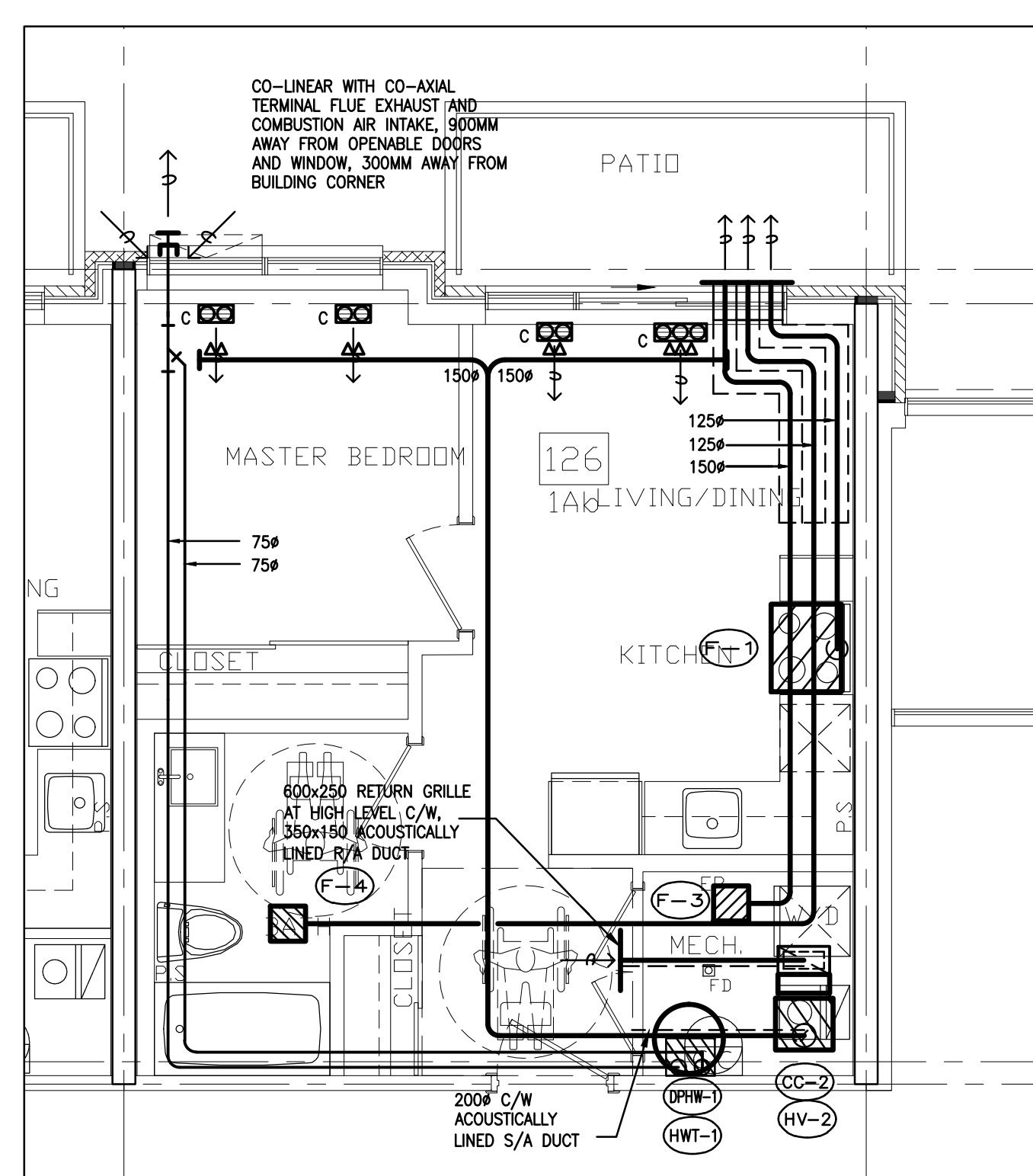
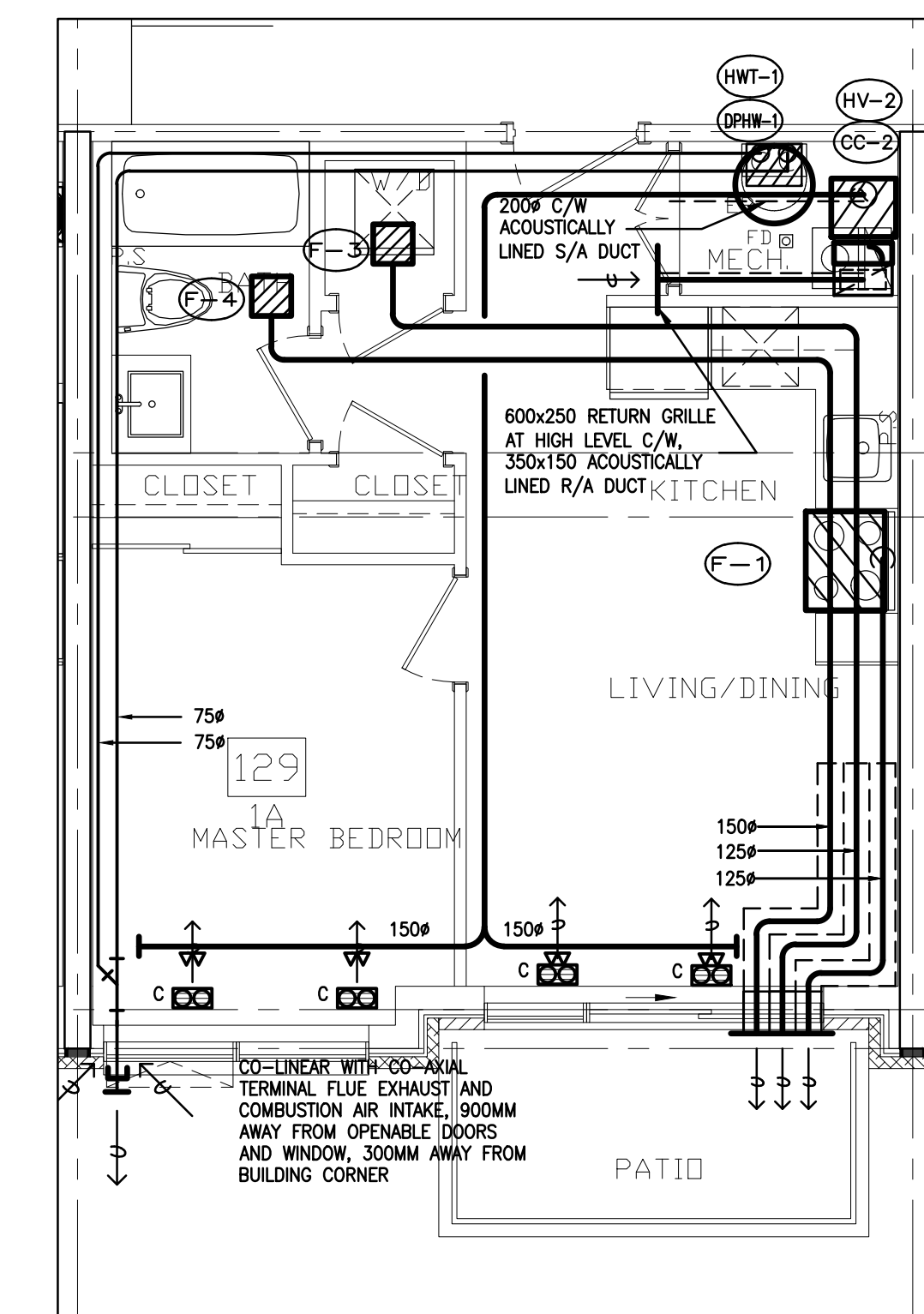
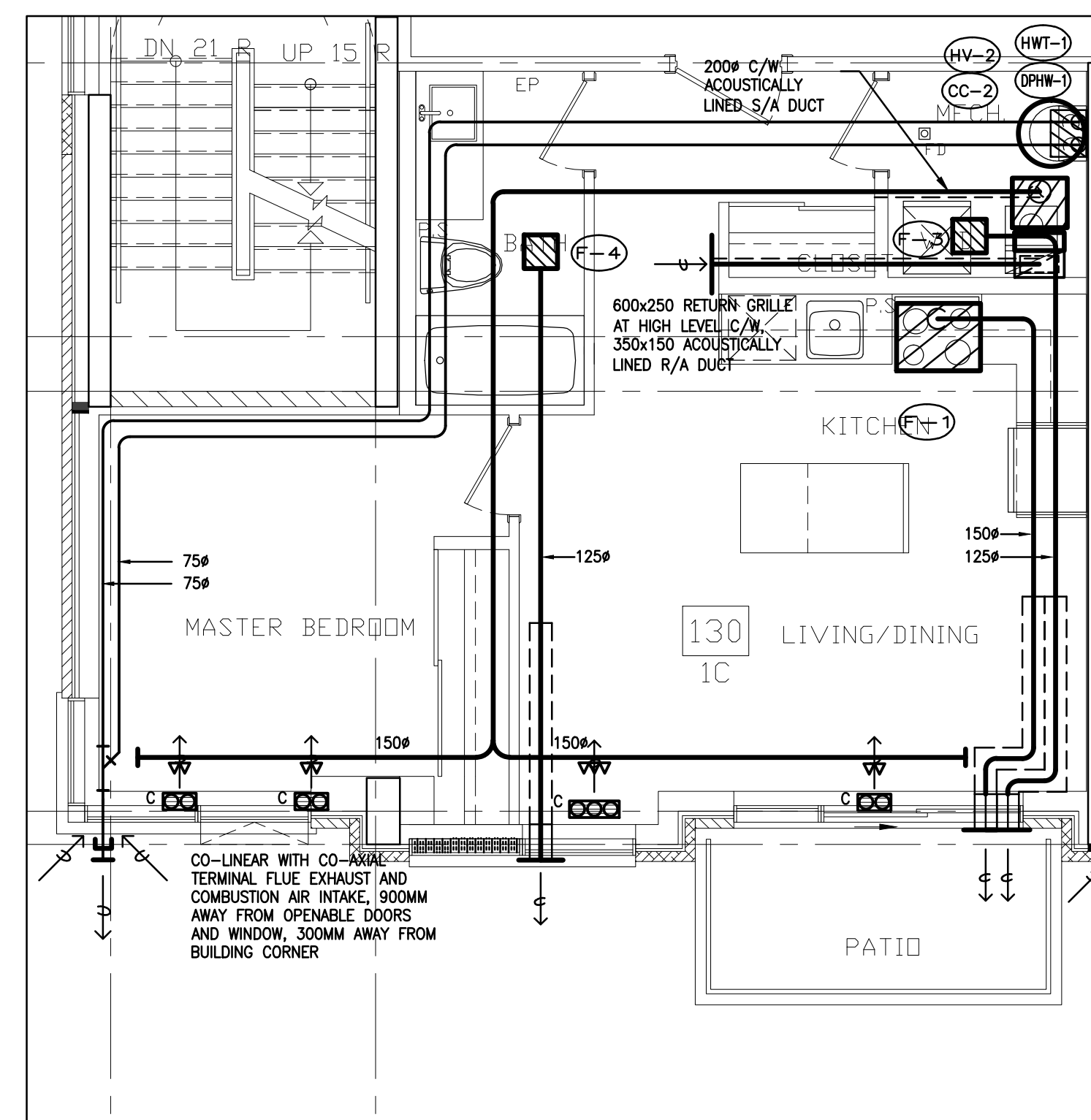
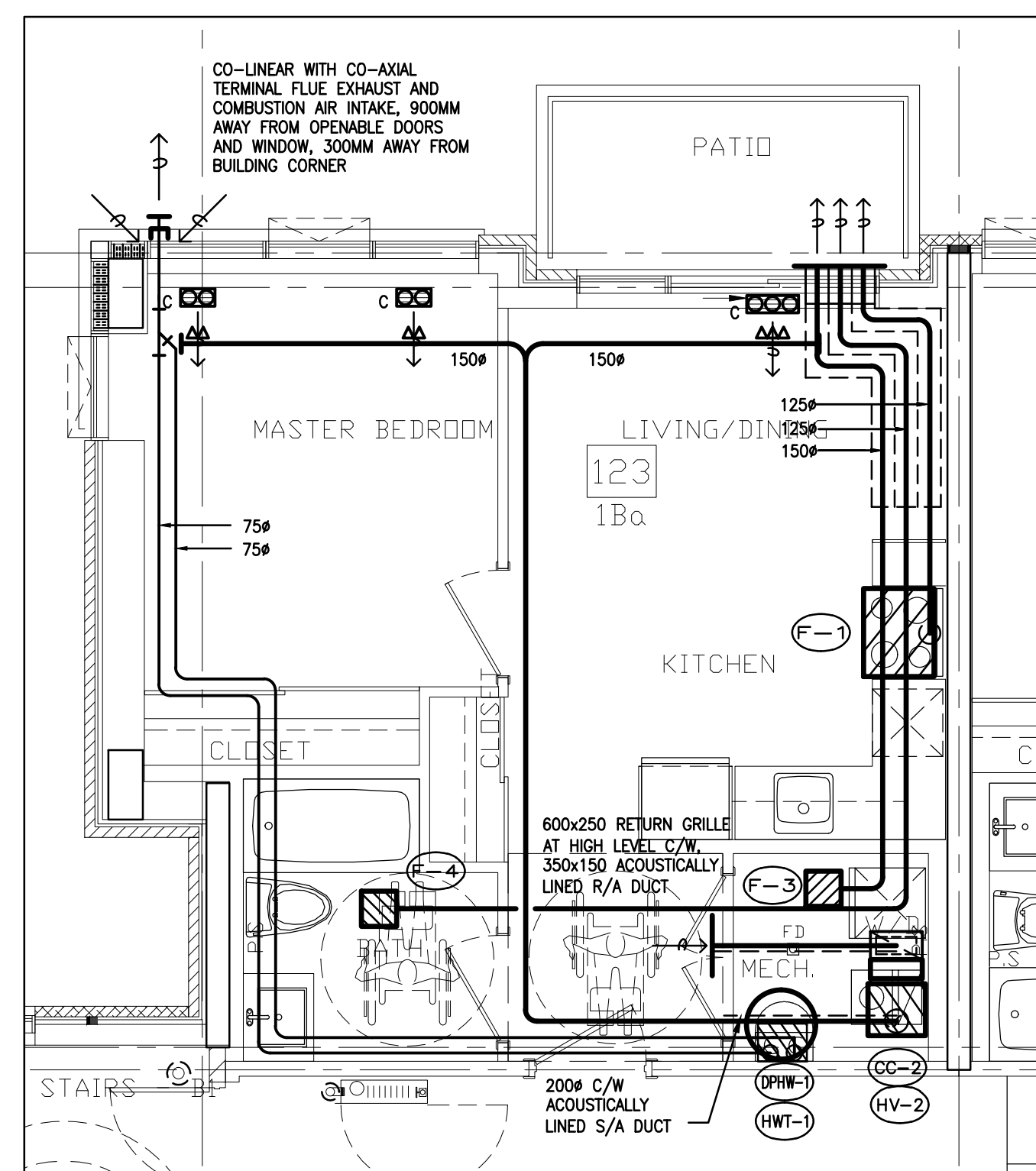
**BRAMPTON STACKED
FORESTSIDE ESTATES**

ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

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



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



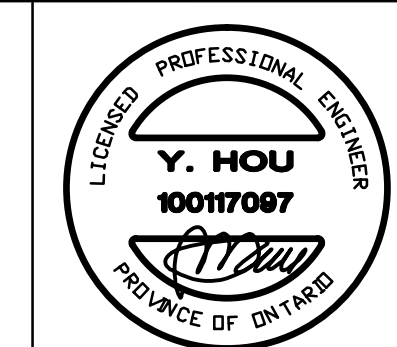
C3	RC	ADDENDUM #04	JUN. 12, 2022
O2	RC	ADDENDUM #02	SEP. 13, 2011
O1	RC	ISSUED FOR TENDER	AUG. 02, 2011
NO.	BY	DESCRIPTION	DATE

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Refer to the appropriate trade drawings before proceeding with any work. Installation must conform to all applicable codes and requirements of the authoritative governing jurisdiction.

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TITLE
TYPICAL SUITES LAYOUT
MECHANICAL

PROJECT

**BRAMPTON STACKED
FORESTSIDE ESTATES**

**ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO**

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

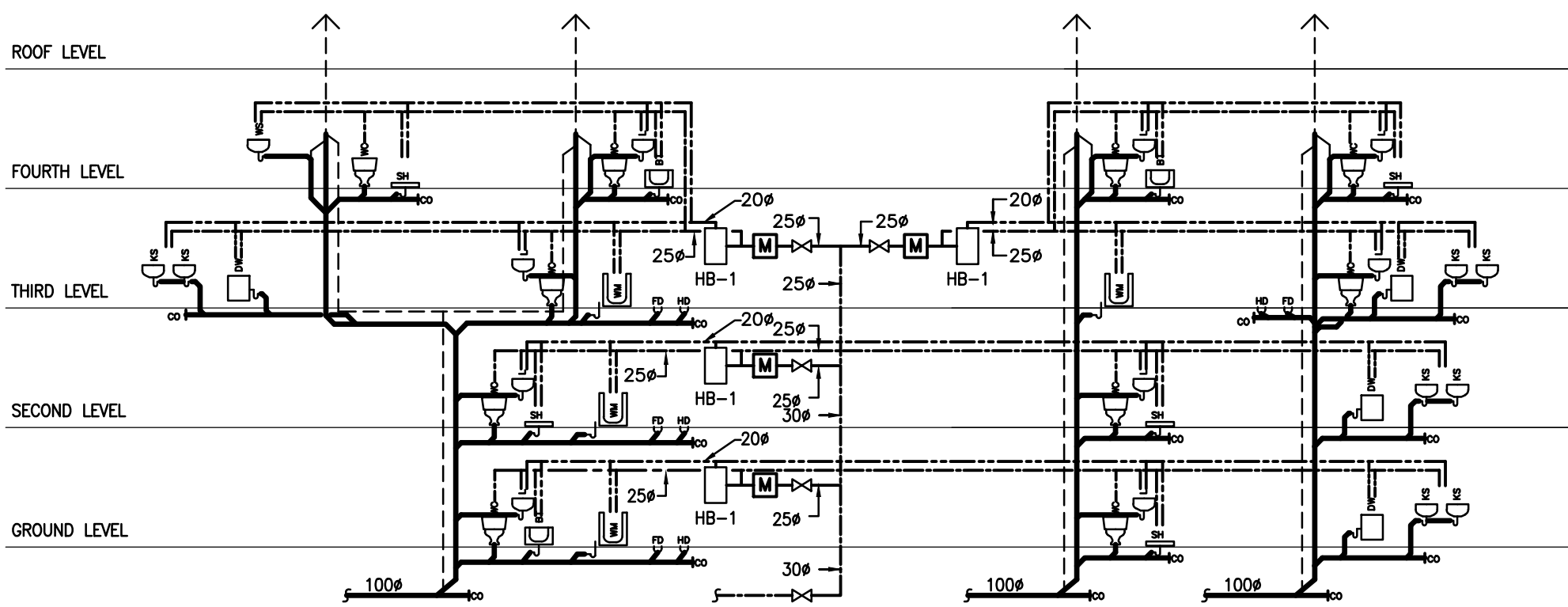
EQUIPMENT SCHEDULE													
UNIT No	DESCRIPTION	LOCATION	HEATING		COOLING TOTAL		L/S G.P.M.	EXTERNAL S.P.T. POWER		R.P.M.	ELECTRICAL CHARACTERISTICS	MAKE	MODEL
			M.B.H.	C.F.M.	M.B.H.	C.F.M.		K.P.A.	K.W.				
(PWB-1)	CONDENSING COMB. BOILER	TOWNHOUSES	97 MBH		2			180W			120/1/60	GLOW BRAND	C95
(HV-1)	AIR HANDLER	TOWNHOUSES	46.28 MBH		750			9.9 A			120/1/60	MAX AIR	70a
(HV-2)	AIR HANDLER	TOWNHOUSES	35.19 MBH		580			7.7 A			120/1/60	MAX AIR	50a
(CH-1) (CC-1)	CONDENSING UNIT/COOLING COIL	TOWNHOUSES		2 TONS				25A MAX FUSE			230/1/60	CARRIER	25HHA24
(CH-2) (CC-2)	CONDENSING UNIT/COOLING COIL	TOWNHOUSES		1.5 TONS				20A MAX FUSE			230/1/60	CARRIER	25HHA18
(ERV-1)	ENERGY RECOVERY VENTILATOR	TOWNHOUSES	125W 0.4" WC					2 OF 1/10 HP			120/1/60	LIFEBREATH	METRO 120 ERV

HOT WATER TANK													
TAG	MANUFACTURER	MODEL NUMBER	TYPE	SERVICE	LOCATION	STORAGE CAPACITY (LITERS)	KW	ELECTRICAL CHARACTERISTICS	TEMP. RISE (°F)	FLOW RATE AT TEMP. RISE	VENT	REMARKS	
(HW-1)	GAINT	152ET-907W	DIRECT STORAGE TANK	TOWNHOUSE	MED. RM.	84L (90 GALS)	1.5	120/1/60	90				
(HW-2)	QA SMITH POINT OF USE	EAC-2	ELECTRIC	BASEMENT WASHROOM	ABV CLG	10 (2.5 USGA)	6.0	208/1/60	90				
(HW-3)	QA SMITH POINT OF USE	DEL-205	ELECTRIC	BASEMENT JUNKIES RM.	ABV CLG	7L (19 USGA)	6.0	208/1/60	90				
(HW-4)	QA SMITH POINT OF USE	ERC-2P155V	ELECTRIC	THIRD FLOOR WASHROOM	UNDER CLOSET	2.5 (2.5 USGA)	1.4	120/1/60	90				

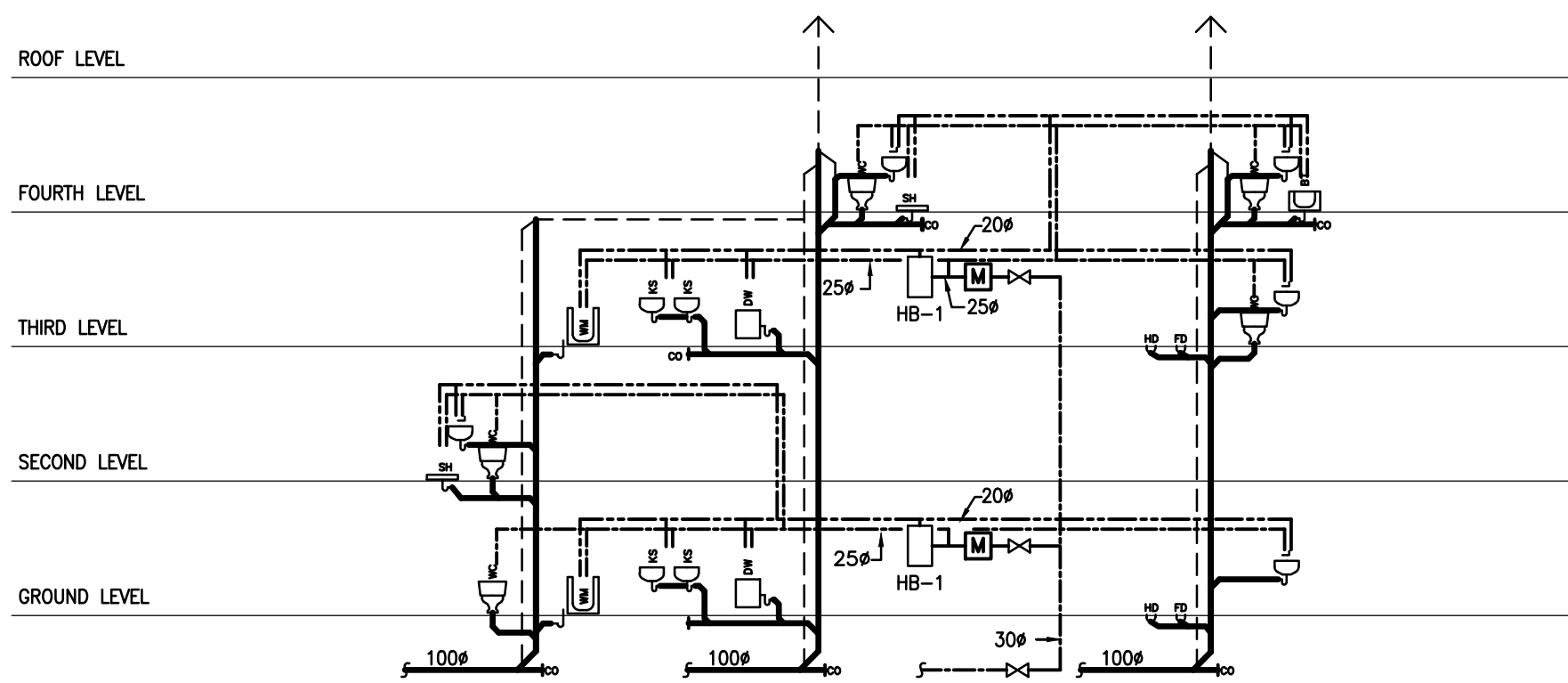
PUMP SCHEDULE													
NO.	TYPE	LOCATION	CAPACITY (L/S)	PRESS. DIFF. (PSI)	RPM	H.P.	ELECTRICAL CHARACTERISTICS	MAKE	MODEL	REMARKS			
(P-1)	DOMESTIC WATER BOOST PUMP	PARKING RM.	380	80PSI	3600	25/25HP	600/3/60	BELL & GOSSETT	TECHNOFORCE XLS	C/W CONTROL PANEL VARIABLE SPEED DRIVE			
(P-2)	SANITARY SUMP PUMP	PARKING LEVEL	120	40	1750	1 HP	208/3/60	BARNES	235V-L	DIRECT C/W ALTERNATOR & HIGH WATER ALARM			
(P-3)	STORM SUMP PUMP	PARKING LEVEL	120	40	1750	1 HP	208/3/60	BARNES	235V-L	DIRECT C/W ALTERNATOR & HIGH WATER ALARM			
(P-4)	SEWAGE PUMP	PARKING LEVEL	50	20	1750	1/2 HP	120/1/60	HYDRAMATIC	SP-40	DIRECT C/W HIGH WATER ALARM			
(P-5)	BASEMENT WASHROOM	PARKING LEVEL	80	70	1750	1 HP	600/3/60	BARNES	SP-40	GRINDER			

SPLIT SYSTEM EQUIPMENT SCHEDULE													
UNIT No	DESCRIPTION	LOCATION	HEATING M.B.H. C.F.M.	COOLING TOTAL M.B.H. C.F.M.	L/S G.P.M.	EXTERNAL S.P.T. POWER K.P.A. INS.	K.W. AMPS/HP	R.P.M.	ELECTRICAL CHARACTERISTICS	MAKE	MODEL	WEIGHT	OPERATING
(E-1)	SPLIT SYSTEM CONDENSER & COIL	ELEV. MACH. ROOM		18.0	570		30AMP MO 1A	1200	575/3/60	ENG. AIR	FWE113/DJX60/M	4200	
(E-2)	SPLIT SYSTEM CONDENSER UNIT	GARAGE		18.0			30AMP MO 1A	1217	575/3/60	ENG. AIR	FWE113/DJX60/M	4200	
(E-3)	SPLIT SYSTEM CONDENSER & COIL	GARAGE ROOMS	24.0 MBH	800		0.4"	5.4FLA MO 1A	1068	575/3/60	ENG. AIR	FWE143/DJX60/M	4300	
(E-4)	SPLIT SYSTEM CONDENSER UNIT	GARAGE		24.0 MBH			30AMP MO 1A	1068	575/3/60	ENG. AIR	FWE143/DJX60/M	4300	
(E-5)	SPLIT SYSTEM CONDENSER & COIL	LOBBY	24.0 MBH	800		0.4"	15W ELCT. HEATER	1064	575/3/60	ENG. AIR	FWE183/DJX100/M	6600	
(E-6)	SPLIT SYSTEM CONDENSER UNIT	LOBBY ROOF		24.0 MBH			30AMP MO 1A	1064	575/3/60	ENG. AIR	FWE183/DJX100/M	6600	

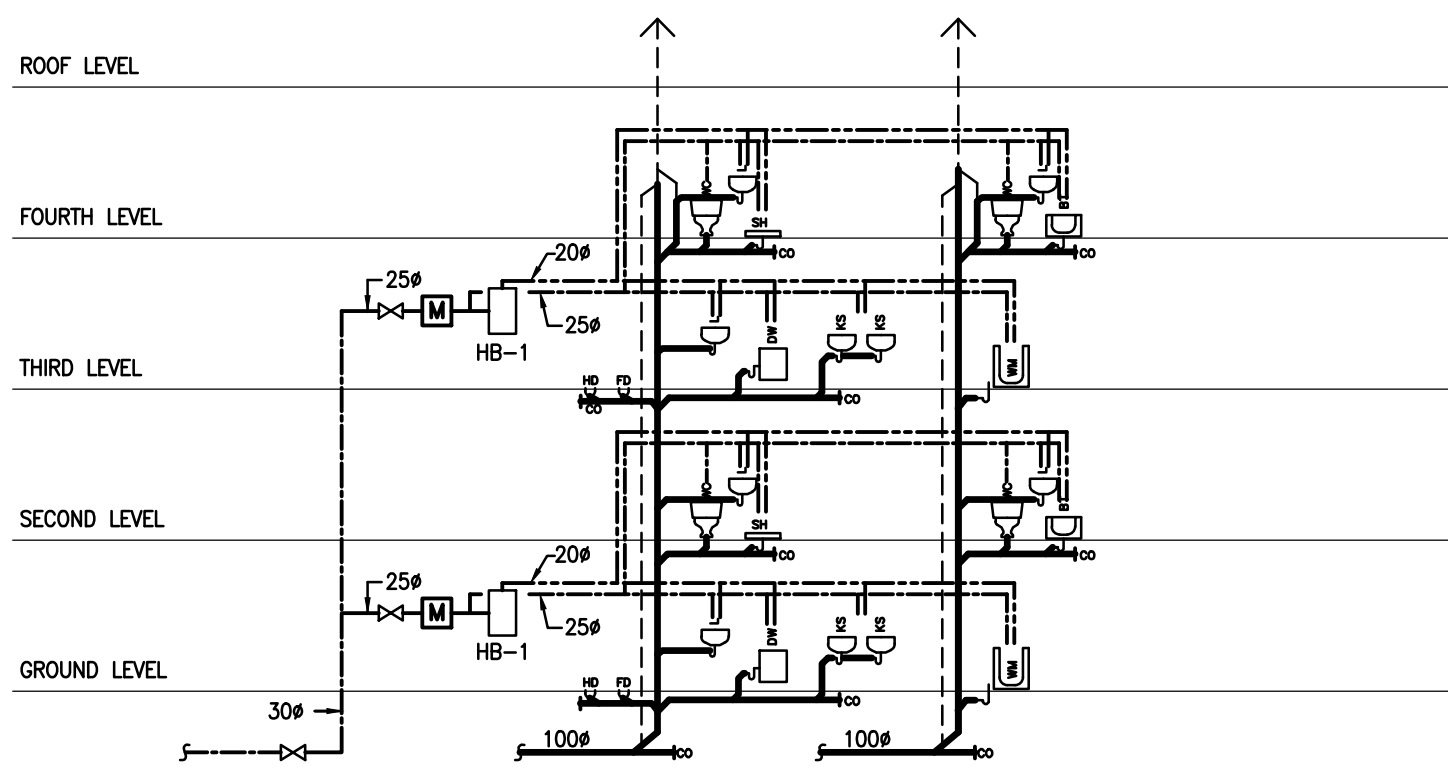
MAKE-UP AIR UNIT													
UNIT No	DESCRIPTION	LOCATION	HEATING M.B.H. C.F.M.	COOLING TOTAL M.B.H. C.F.M.	L/S G.P.M.	EXTERNAL S.P.T. POWER K.P.A. INS.	K.W. AMPS/HP	R.P.M.	ELECTRICAL CHARACTERISTICS	MAKE	MODEL	WEIGHT	OPERATING
(MU-1)	MAKE-UP AIR UNIT, DIRECT GAS FIRED HEATING, DR. COOLING	BLK 1 ROOF	HEATING: 450 MBH COOLING: 4300 C.F.M.	4300 C.F.M.		0.75"	5.0 HP 30AMP	1200	575/3/60	ENG. AIR	FWE113/DJX60/M	4200	
(MU-2)	MAKE-UP AIR UNIT, DIRECT GAS FIRED HEATING, DR. COOLING	BLK 2 ROOF	HEATING: 450 MBH COOLING: 4300 C.F.M.	4300 C.F.M.		0.75"	5.0 HP 30AMP	1217	575/3/60	ENG. AIR	FWE113/DJX60/M	4200	
(MU-3)	MAKE-UP AIR UNIT, INDIRECT GAS FIRED HEATING, DR. COOLING	BLK 3 ROOF	HEATING: 500 MBH COOLING: 5800 C.F.M.	5800 C.F.M.		0.75"	7.5 HP 40AMP	1068	575/3/60	ENG. AIR	FWE143/DJX60/M	4300	
(MU-4)	MAKE-UP AIR UNIT, INDIRECT GAS FIRED HEATING, DR. COOLING	BLK 4 ROOF	HEATING: 500 MBH COOLING: 7100 C.F.M.	7100 C.F.M.		0.75"	7.5 HP 50AMP	1064	575/3/60	ENG. AIR	FWE183/DJX100/M	6600	



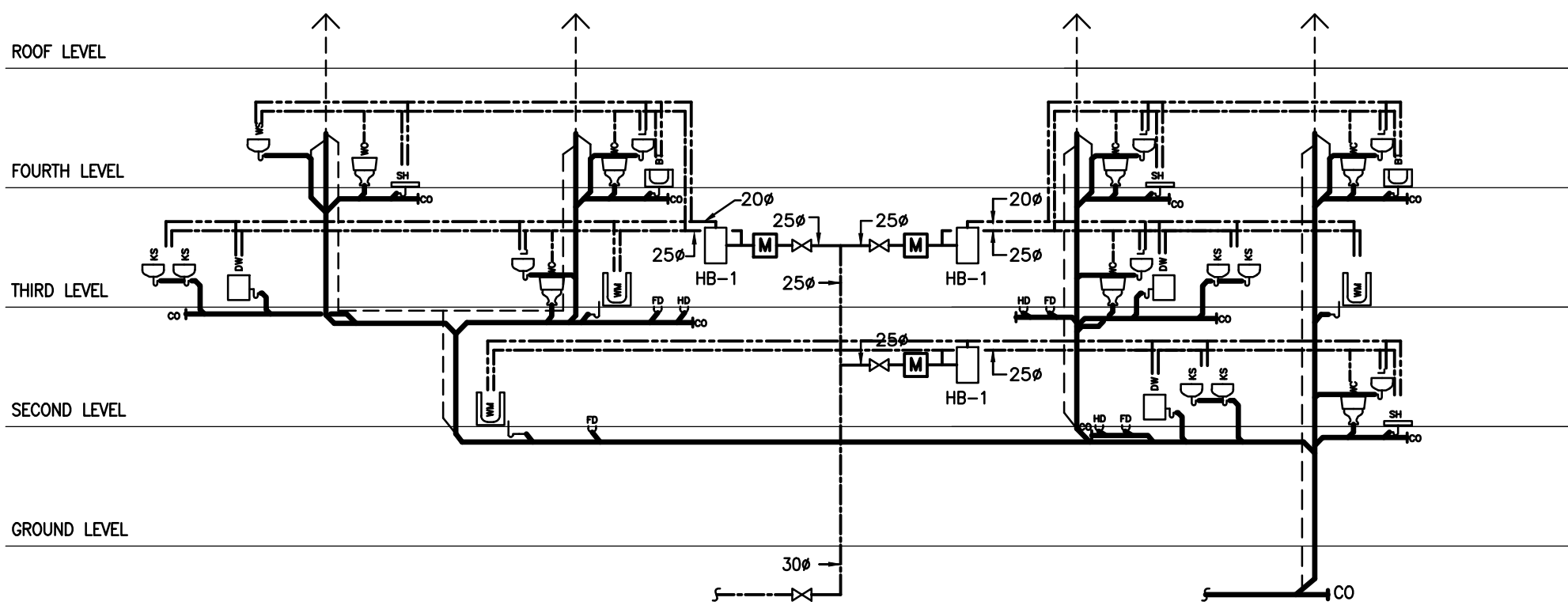
PLUMBING RISER TYPICAL FOR MODEL: 2A1/2A3/2C1/2D2



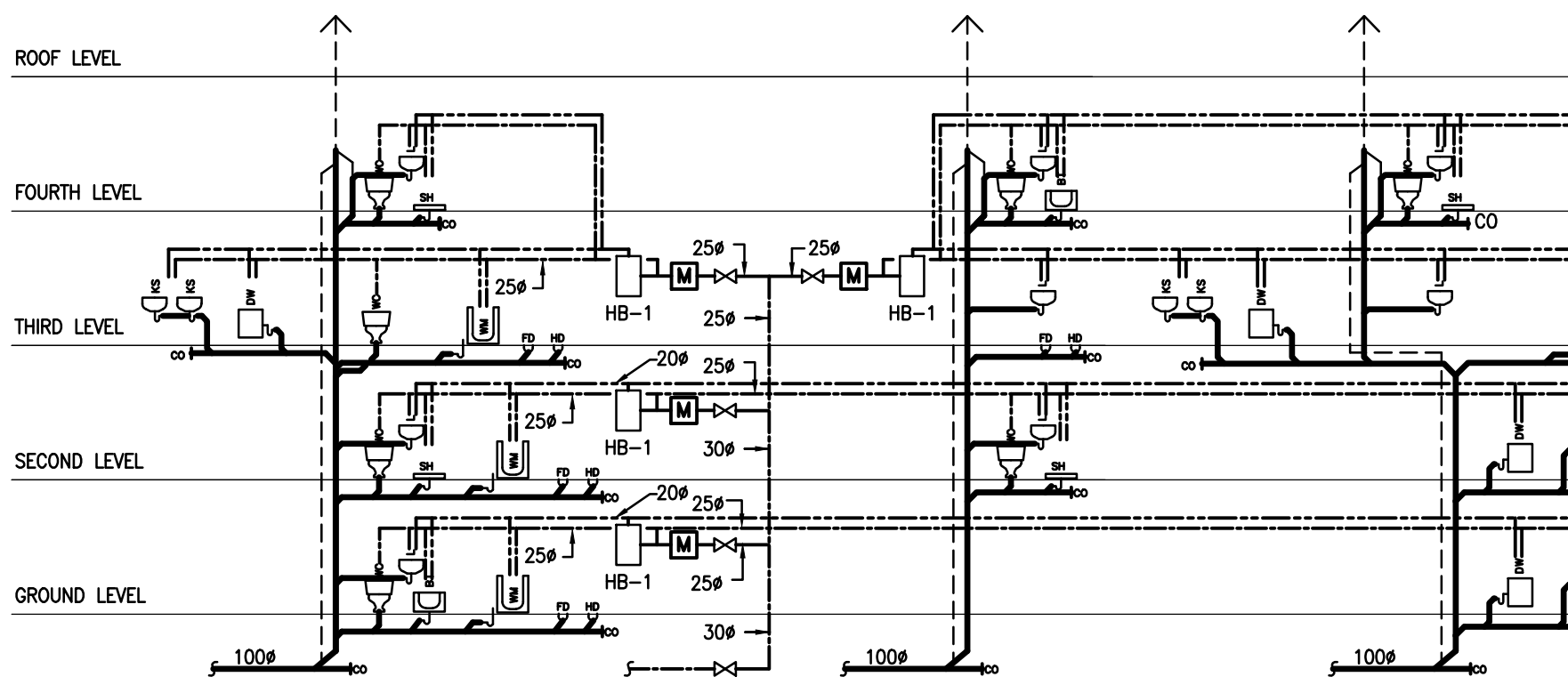
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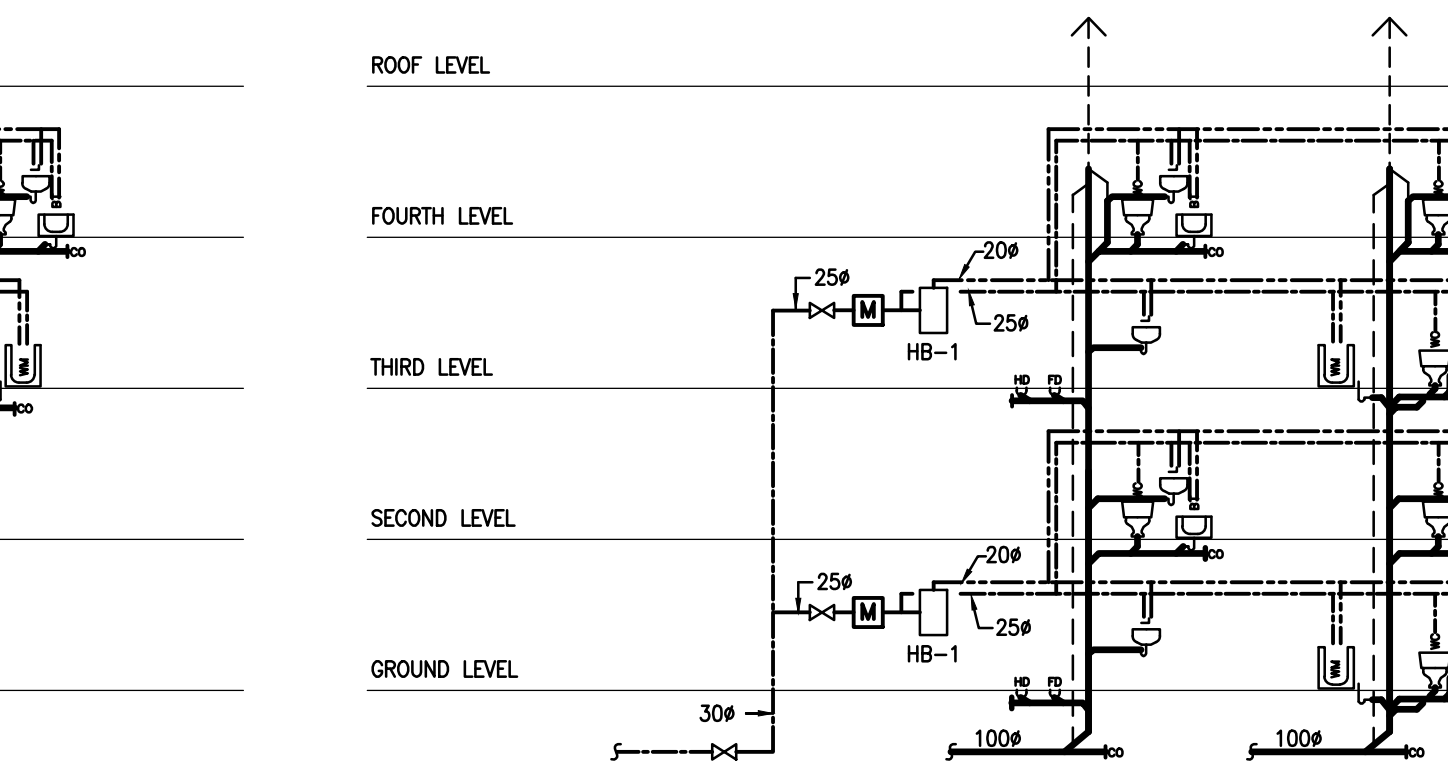
PLUMBING RISER TYPICAL FOR MODEL: 2C1



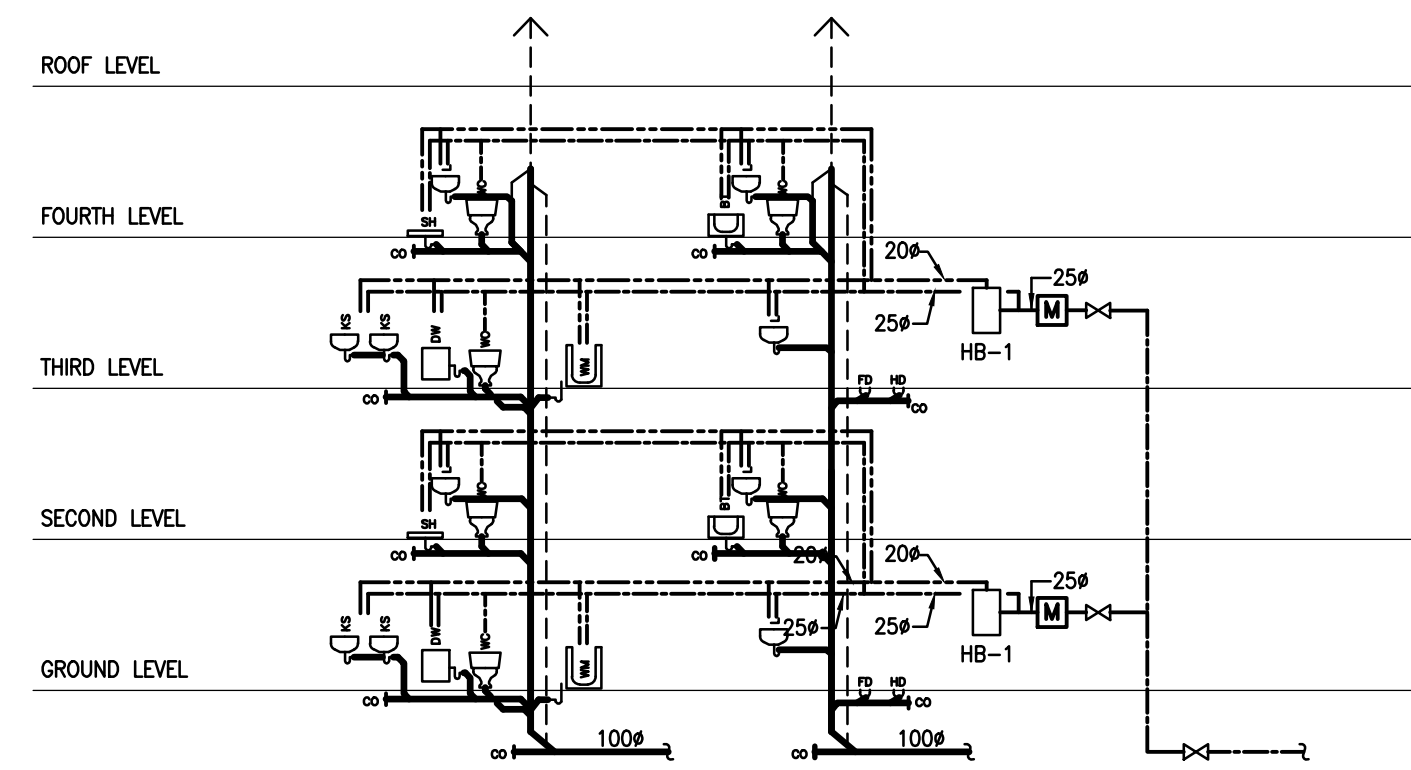
PLUMBING RISER TYPICAL FOR MODEL: 2A4/2C1/2D2



PLUMBING RISER TYPICAL FOR MODEL: 2A/2A2/2C/2D



PLUMBING RISER TYPICAL FOR MODEL: 2C



PLUMBING RISER TYPICAL FOR MODEL: 2D

NOTE: ALL SUITE FANS SHOULD BE IM (2001) PERFORMANCE CERTIFIED
* NOTE: MOTORS FOR SPECIFIED EQUIPMENT TO BE HIGH EFFICIENCY, TO ASHRA 90.1 STANDARDS

FAN SCHEDULE													
NO.	TYPE	LOCATION	CAPACITY (L/S)	RPM	H.P.	ELECTRICAL CHARACTERISTICS	MAKE	MODEL	OPENING INCHES	REMARKS			
(F-1)	EXHAUST	SUITE	100	30	2.0AMPS	120/1/60	REVERSONIC	TL-240ES		COLOUR BY ARCHITECT			
(F-2)	WASHROOM	SUITE	205	30	2.5AMPS	120/1/60	REVERSONIC	TL-240ES		SOUND RATED TO BE LESS THAN 3.5 SONES			
(F-3)	DRYER EXHAUST	SUITE	100	40	1.5AMPS	120/1/60	REVERSONIC	TL-240ES		FACTORY MOUNTED & MTD. IN SUITE			
(F-4)	EXHAUST	SUITE	95	30	1.8AMPS	120/1/60	PANASONIC	TV-076A1-FV-076B1		SOUND RATED TO BE LESS THAN 3.5 SONES			
(F-5)	PARKING LEVEL EXHAUST	U/G GARAGE	23740	25	770	5 HP	600/3/60	PENN	BOH48	EAST/ST. DUAL SPEED MOTOR. WIRED ON LOW SPEED			
(F-6)	AIR MOVING FAN	U/G GARAGE	3500	25	492	1 HP	600/3/60	PENN	ZC12	EAST/ST. DUAL SPEED MOTOR. WIRED ON LOW SPEED			
(F-7)	EXHAUST	METER RM.	377	25	1550	120/1/60	PENN	Z8H		INTERLOCK WITH TEMPERATURE SENSOR/MOT. DAMPER			
(F-8)	EXHAUST	BRH RM. BLDG D	166	25	1550	120/1/60	PENN	Z6H		EAST/ST. DUAL SPEED MOTOR. WIRED ON LOW SPEED			
(F-9)	EXHAUST	GARAGE RM. BLDG D	300	375	1750	120/1/60	PENN	REX100		EAST/ST. DUAL SPEED MOTOR. WIRED ON LOW SPEED			
(F-10)	EXHAUST	TELECOM RM.	231	25	1050	120/1/60	PENN	Z8S		EAST/ST. DUAL SPEED MOTOR. WIRED ON LOW SPEED			
(F-11)	EXHAUST	ELECT RM. BLDG D	2856	125	1300	120/1/60	PENN	BREEZEWAY P16SA		C/W REVERSE ACTING LINE VOLT THERMOSTAT			
(F-12)	EXHAUST	SUB ELECT RM. BLDG D	2856	125	1300	120/1/60	PENN	BREEZEWAY P16SA		C/W REVERSE ACTING LINE VOLT THERMOSTAT			
(F-13)	EXHAUST	LOOKER BLDG A	786	25	1050	120/1/60	PENN	Z12S		EAST/ST. DUAL SPEED MOTOR. WIRED ON LOW SPEED			
(F-14)	EXHAUST	GARAGE RM. BLDG A	300	375	1750	120/1/60	PENN	REX100		EAST/ST. DUAL SPEED MOTOR. WIRED ON LOW SPEED			
(F-15)	EXHAUST	BRH RM. BLDG A	166	25	1550	120/1/60	PENN	Z8H		EAST/ST. DUAL SPEED MOTOR. WIRED ON LOW SPEED			
(F-16)	EXHAUST	LOOKER BLDG A	1301	25	1550	120/1/60	PENN	Z10H		EAST/ST. DUAL SPEED MOTOR. WIRED ON LOW SPEED			
(F-17)	EXHAUST	LOOKER BLDG B	664	25	1550	120/1/60	PENN	Z10H		EAST/ST. DUAL SPEED MOTOR. WIRED ON LOW SPEED			
(F-18)	EXHAUST	SUB ELECT RM. BLDG B	1859	125	1050	120/1/60	PENN	BREEZEWAY P16SA		C/W REVERSE ACTING LINE VOLT THERMOSTAT			
(F-19)	EXHAUST	BRH RM. BLDG B	128	25	1550	120/1/60	PENN	Z5H		EAST/ST. DUAL SPEED MOTOR. WIRED ON LOW SPEED			
(F-20)	EXHAUST	GARAGE RM. BLDG B	300	375	1750	120/1/60	PENN	REX100		EAST/ST. DUAL SPEED MOTOR. WIRED ON LOW SPEED			
(F-21)	EXHAUST	STORAGE RM. BLDG B	128	25	1550	120/1/60	PENN	Z5H		EAST/ST. DUAL SPEED MOTOR. WIRED ON LOW SPEED			
(F-22)	EXHAUST	BRH RM. BLDG C	128	25	1550	120/1/60	PENN	Z5H		EAST/ST. DUAL SPEED MOTOR. WIRED ON LOW SPEED			
(F-23)	EXHAUST	GARAGE RM. BLDG C	300	375	1750	120/1/60	PENN	REX100		EAST/ST. DUAL SPEED MOTOR. WIRED ON LOW SPEED			

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 80% 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 EXISTING FREQUENCY OF ROTATING MACHINERY WHENEVER PRACTICABLE, BUT IN NO CASE GREATER THAN 1/7, WHERE STRUCTURAL SUPPORT (FLOOR OR ROOF, ETC.) DEFLECTION WILL EXCEED 1/10 OF THE DETERMINED STATIC DEFLECTION OF THE ISOLATOR. INCREASE THE ISOLATOR STATIC DEFLECTION TO MAINTAIN A MINIMUM RATIO OF ISOLATOR DEFLECTION TO FLOOR DEFLECTION OF 10:1. STATIC DEFLECTIONS SHOWN ON 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 EXISTING FREQUENCIES AND OTHER CHARACTERISTICS OF FINAL EQUIPMENT SELECTION. SELECTED VIBRATION ISOLATION MOUNTS ARE TO ACHIEVE THE REQUIRED STATIC DEFLECTION UNDER LOAD, WITH AT LEAST 20% RESERVE DEFLECTION. ISOLATOR 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 ELASTOMER ISOLATORS WILL BE REQUIRED.

PIPE CONNECTIONS TO PUMPS SHOULD INCLUDE FLEXIBLE CONNECTIONS, SUCH AS WITH THE USE OF TWIN-PHASE JOINTS.

PIPE SUPPORTS/HANGERS WITHIN MECHANICAL ROOMS SHOULD INCORPORATE VIBRATION ISOLATION.

THE SUITE FAN UNITS MUST BE VIBRATION ISOLATED FROM THE BUILDING STRUCTURE. THE SUITE FAN 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 OFFSHOOT BEARS FORMING THE PIPE SPACE SHOULD EXTEND UP TO THE UNDERSIDE OF THE DAMPING CEILING ABOVE, RATHER THAN STOPPING AT THE DROPPED PLASTER CEILING.

TO CONTROL TRANSMISSION OF PLUMBING NOISE TO SUITES, CAST IRON DRAIN PIPE SHOULD BE USED FOR STORM AND SANITARY DRAINS. BUT INSULATION SHOULD BE INCLUDED IN VERTICAL PIPE SPACES AS WELL AS DROPPED CEILINGS OR BULKHEADS THAT CONTAIN HORIZONTAL PLUMBING OFFSETS. IF A TANK OR BULKHEAD IS LOCATED IN THE CEILING SPACE/BULKHEAD, IF A NOISE SENSITIVE SPACE, BOX IN THE DRAIN/FLOOR WITH TWO LAYERS OF OFFSHOOT BOARD LINED WITH BATT INSULATION, OR ACCIDENTALLY 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.

BRANCH SIZES SCHEDULE			
UNIT	NO. OF FIXTURES	MIN. DUCT SIZE (INCHES)	MAX. DUCT SIZE (INCHES)
SINGLE KITCHEN	1	1 1/2	2
SINGLE BATHROOM	1	1 1/2	2
DOUBLE BATHROOM/SINGLE KITCHEN	2	2	3
INDIVIDUAL WASHER	1	1 1/2	2
DOUBLE BATHROOM	2	2	3
DOUBLE BATHROOM	2	2	3
THREE OR MORE BATHROOMS	3	3	4

TYPICAL SUITE NOTES:

1. UNIT & FITS OF ALL EXHAUST DUCTWORK AND FRESH AIR DUCTWORK C/W INSULATION & WIPER BARBERS (TYPICAL).

2. PROVIDE ACOUSTIC INSULATION ON SUPPLY AND RETURN DUCTWORK UP TO 5' OF FRESH AIR UNIT.

3. VENTILATION CONTRACTOR SHALL SUPPLY & INSTALL THE FLEXIBLE DUCTWORK FROM FRESH AIR UNIT TO THE EXHAUST FAN AND FROM EXHAUST DUCT UNLESS OTHERWISE NOTED BY OWNER.

4. MECHANICAL CONTRACTOR SHALL MAKE ALL DIRECT PLUMBING & DRAINAGE CONNECTIONS TO THE DRAINWASHER C/W SHUT-OFF VALVE & COPPER SUPPLY PIPES.

5. DUCT SIZES: KITCHEN EXHAUST: 8" SINGLE BATHROOM EXHAUST: 8" DOUBLE BATHROOM EXHAUST: 8" DOUBLE BATHROOM EXHAUST: 8"

BRANCH SIZES SCHEDULE	
FOR SANITARY LINES CONNECT TO TOWNSEWERS	
UNIT	min (Inches)
WATER CLOSET (TANK)	75mm (3")
SHOWER	50mm (2")
BATHTUB/KITCHEN SINK	40mm (1-1/2")
LAUNDRY	32mm (1-1/4")
FLOOR DRAIN	75mm (3")
LAUNDRY WASHER	40mm (1-1/2")
PLUMBING RISER	100mm (4")



REVISIONS

TITLE
GAS SCHEMATICS

PROJECT

**BRAMPTON STACKED
FORESTSIDE ESTATES**

ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

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