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Combustion By-Product / Testing / Analysis

Jobsite:

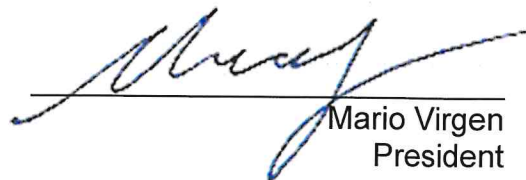
**CALIFORNIA STATE UNIVERSITY LOS ANGELES (CSULA)
STUDENT HOUSING EAST
5151 STATE UNIVERSITY DR.
LOS ANGELES, CA 90032**

Prepared For:

MS. BARBARA L. QUEEN
CALIFORNIA STATE UNIVERSITY LOS ANGELES (CSULA)
5151 STATE UNIVERSITY DR.
LOS ANGELES, CA 90032

January 14, 2025

PROJECT No. **E225-004**



Mario Virgen
President

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-



Barbara L. Queen
Planning, Design & Construction
California State University, Los Angeles (CSULA)
5151 University Dr.
Los Angeles, CA 90032

Re: Combustion By-Product Testing
California State University, Los Angeles (CSULA)
Student Housing East
5151 University Dr.
Los Angeles, CA 90032

GETC Project No. E225-004

Dear Ms. Queen,

Global Environmental Training & Consulting (GETC) performed Ambient Air Testing for Combustion By-Product (Char, Soot, & Ash) at the above referenced property. GETC has reviewed the results from the accredited laboratory and based on the samples taken on January 12, 2025, throughout Student Housing East, results have concluded that all areas identified are below the outside background sample for Combustion By-Products.

Thank you for choosing GETC as the consultant for this project. If you have any questions, or if we can be of service again in the future, please do not hesitate to contact our office at (626) 962-4436.

Respectfully submitted,

Global Environmental Training & Consulting, Inc.
Mario Virgen, I.H.
President

Enclosures

1.0 EXECUTIVE SUMMARY

1.1 GENERAL INFORMATION

Global Environmental Training and Consulting, Inc. (GETC) was retained by the California State University, Los Angeles (CSULA) to conduct Ambient Air Quality Testing for Combustion By-Products at Student Housing East located at 5151 University Dr., in Los Angeles, California.

Carbon Black is a fine-grained solid residue that results from incomplete combustion of hydrocarbons. This testing is designed for analysis of fire residues for presence of analytes of interest (Char, Black Carbon/Soot, & Ash). The results of this test offer the client valuable information related to the extent of contamination produced by a fire from a residence or wildfire. These results can be used for cleaning assessment.

The sample collection was performed by GETC Industrial Hygienist Mr. Mario Virgen.

1.2 TASKS

GETC Performed Ambient Air Quality Testing for Combustion By-Product that included the following tasks:

- ◆ Collect Air Samples using Allergenco Cassettes within Student Housing East (69 Total) – For Combustion By-Product Analysis.
 - ◆ Air Samples were collected following the ASTM D6602-13 Standards, “Standard Practices for sampling and testing of possible Carbon Black Fugitive Emissions or Environmental Particulates.”
-

SAMPLING TABLE COMBUSTION BY-PRODUCT (CHAR, SOOT, & ASH)

STUDENT HOUSING EAST					
SAMPLE NO.	LOCATION	CHAR PARTICULATES	SOOT PARTICULATES	ASH	TOTAL
01	1 ST FLOOR – DINING AREA	47	0	13	60
02	1 ST FLOOR – KITCHEN	53	7	27	87
03	1 ST FLOOR – COMMUNITY KITCHEN	73	0	20	93
04	1 ST FLOOR – CORRIDOR	1,520	27	87	1,634
05	1 ST FLOOR – HOUSING ADMIN ROOM 2310	1,320	7	27	1,354
06	1 ST FLOOR – GYM	33	0	7	40
07	1 ST FLOOR – LEARNING CENTER	27	0	0	27
08	1 ST FLOOR – LOBBY	87	7	13	107
09	2 ND FLOOR – TOWER 1 – STUDY LOUNGE A	40	0	0	40
10	2 ND FLOOR – TOWER 1 – FLOOR LOUNGE	520	13	20	553
11	2 ND FLOOR – TOWER 1 – STUDY LOUNGE B	373	7	7	387
12	3 RD FLOOR – TOWER 1 – STUDY LOUNGE A	207	0	13	220
13	3 RD FLOOR – TOWER 1 – FLOOR LOUNGE	1,487	7	13	1,507
14	3 RD FLOOR – TOWER 1 – STUDY LOUNGE B	713	7	27	747
15	4 TH FLOOR – TOWER 1 – STUDY LOUNGE A	360	13	47	420
16	4 TH FLOOR – TOWER 1 – FLOOR LOUNGE	87	7	13	107
17	4 TH FLOOR – TOWER 1 – STUDY LOUNGE B	73	13	7	93
18	5 TH FLOOR – TOWER 1 – STUDY LOUNGE A	100	7	20	127
19	5 TH FLOOR – TOWER 1 – FLOOR LOUNGE	33	0	0	33
20	5 TH FLOOR – TOWER 1 – STUDY LOUNGE B	60	0	7	67
21	6 TH FLOOR – TOWER 1 – STUDY LOUNGE A	87	7	20	114
22	6 TH FLOOR – TOWER 1 – FLOOR LOUNGE	27	0	0	27
23	6 TH FLOOR – TOWER 1 – STUDY LOUNGE B	27	0	7	34

CONTINUED...

STUDENT HOUSING EAST

SAMPLE NO.	LOCATION	CHAR PARTICULATES	SOOT PARTICULATES	ASH	TOTAL
24	7 TH FLOOR – TOWER 1 – STUDY LOUNGE A	27	7	7	41
25	7 TH FLOOR – TOWER 1 – FLOOR LOUNGE	20	0	0	20
26	7 TH FLOOR – TOWER 1 – STUDY LOUNGE B	47	0	7	54
27	8 TH FLOOR – TOWER 1 – STUDY LOUNGE A	47	0	7	64
28	8 TH FLOOR – TOWER 1 – FLOOR LOUNGE	33	7	13	53
29	8 TH FLOOR – TOWER 1 – STUDY LOUNGE B	40	0	13	33
30	7 TH FLOOR – TOWER 2 – STUDY LOUNGE A	33	0	0	33
31	7 TH FLOOR – TOWER 2 – FLOOR LOUNGE	13	0	0	13
32	7 TH FLOOR – TOWER 2 – STUDY LOUNGE B	33	0	7	40
33	6 TH FLOOR – TOWER 2 – STUDY LOUNGE A	47	0	13	60
34	6 TH FLOOR – TOWER 2 – FLOOR LOUNGE	27	0	7	34
35	6 TH FLOOR – TOWER 2 – STUDY LOUNGE B	47	7	20	74
36	5 TH FLOOR – TOWER 2 – STUDY LOUNGE A	20	0	0	20
37	5 TH FLOOR – TOWER 2 – FLOOR LOUNGE	60	7	13	80
38	5 TH FLOOR – TOWER 2 – STUDY LOUNGE B	40	0	0	40
39	4 TH FLOOR – TOWER 2 – STUDY LOUNGE A	73	7	7	87
40	4 TH FLOOR – TOWER 2 – FLOOR LOUNGE	27	0	0	27
41	4 TH FLOOR – TOWER 2 – STUDY LOUNGE B	20	0	0	20
42	3 RD FLOOR – TOWER 2 – STUDY LOUNGE A	273	13	7	293
43	3 RD FLOOR – TOWER 2 – FLOOR LOUNGE	353	7	47	407
44	3 RD FLOOR – TOWER 2 – STUDY LOUNGE B	80	20	27	127
45	2 ND FLOOR – TOWER 2 – STUDY LOUNGE A	40	0	0	40
46	2 ND FLOOR – TOWER 2 – FLOOR LOUNGE	60	0	7	67
47	2 ND FLOOR – TOWER 2 – STUDY LOUNGE B	47	0	0	47

CONTINUED...

STUDENT HOUSING EAST

SAMPLE NO.	LOCATION	CHAR PARTICULATES	SOOT PARTICULATES	ASH	TOTAL
48	2 ND FLOOR – TOWER 3 – STUDY LOUNGE A	540	13	47	600
49	2 ND FLOOR – TOWER 3 – FLOOR LOUNGE	53	0	13	66
50	2 ND FLOOR – TOWER 3 – STUDY LOUNGE B	60	0	7	67
51	3 RD FLOOR – TOWER 3 – STUDY LOUNGE A	293	13	27	333
52	3 RD FLOOR – TOWER 3 – FLOOR LOUNGE	60	0	0	60
53	3 RD FLOOR – TOWER 3 – STUDY LOUNGE B	207	7	20	234
54	3 RD FLOOR – TOWER 3 – STUDY LOUNGE A	80	0	7	87
55	3 RD FLOOR – TOWER 3 – FLOOR LOUNGE	47	0	0	47
56	3 RD FLOOR – TOWER 3 – STUDY LOUNGE B	420	13	27	460
57	5 TH FLOOR – TOWER 3 – STUDY LOUNGE A	707	27	53	787
58	5 TH FLOOR – TOWER 3 – FLOOR LOUNGE	80	0	7	87
59	5 TH FLOOR – TOWER 3 – STUDY LOUNGE B	273	13	7	293
60	6 TH FLOOR – TOWER 3 – STUDY LOUNGE A	247	13	33	293
61	6 TH FLOOR – TOWER 3 – FLOOR LOUNGE	80	13	40	133
62	6 TH FLOOR – TOWER 3 – STUDY LOUNGE B	173	20	20	213
63	7 TH FLOOR – TOWER 3 – STUDY LOUNGE A	727	33	53	813
64	7 TH FLOOR – TOWER 3 – FLOOR LOUNGE	73	0	27	100
65	7 TH FLOOR – TOWER 3 – STUDY LOUNGE B	93	7	7	107
66	8 TH FLOOR – TOWER 3 – STUDY LOUNGE A	53	0	20	73
67	8 TH FLOOR – TOWER 3 – FLOOR LOUNGE	87	0	40	127
68	8 TH FLOOR – TOWER 3 – STUDY LOUNGE B	580	20	73	673
69	OUTSIDE (CONTROL)	13,220	507	753	14,480

2.0 METHODOLOGY

This section includes the description of the methodologies used to perform the Combustion By-Product Sampling and Analysis. These methodologies include air sampling analysis.

2.1 AIR SAMPLING

- Collect and submit for analysis samples for Combustion By-Product from within Student Housing East.

2.2 SAMPLING PROCEDURES AND ANALYSIS

Sampling Procedure

The inspector collected Sixty-Nine (69) air samples from Student Housing East. Methods & Equipment:

- ♦ Polarized Light Microscopy (PLM)
- ♦ epi-Reflected Light Microscopy (RLM)

The samples were numbered and shipped to a laboratory accredited under the American Industrial Hygiene Association (AIHA) and Environmental Proficiency Analytical Testing Program (EPAT).

Chain-of-Custody Procedures

Chain-of-Custody documents possession of the samples from the time they are collected until they have been analyzed and are stored. Custody documentation must be followed whenever materials are received, collected, transferred, stored, analyzed, or destroyed.

The original Chain-of-Custody is to accompany the materials at all times. Custody documentation will begin at the time a sample is collected. Each transferor should retain a copy of the Chain-of-Custody record.

Laboratory Quality Control Program

Pasteur Laboratory maintains an in-house quality control program. This program involves precision and accuracy controls, use of standard bulk reference materials, maintenance of national and state accreditation, participation in external and internal proficiency testing programs, and confirmation of analyst experience and qualification in compliance with specific internal training and competency requirements.

2.3 REPORT FORMAT

This report has been organized in a manner that presents the data in several forms to best suit the needs of the property. The "Executive Summary" provides a description of the facility and analytical results for each area tested. The Air Sampling Log, Appendix A, contains detailed information on the locations of areas sampled. The "Analytical Reports", Appendix B, is a listing of samples taken and their Combustion By-Product Content.

3.0 FINDINGS AND RECOMMENDATIONS

3.1 GENERAL SUMMARY

- ♦ Sampling Logs & COC in Appendix A.
- ♦ Complete lab analyses for Combustion By-Products are given in Appendix B.
- ♦ Sampling Scheme is given in Appendix C.

3.2 RECOMMENDATIONS

Since all indoor air samples are below the Outside (Control) sample, Global Environmental Training & Consulting, Inc. (GETC) has no recommendations at this time.

4.0 WARRANTY

The field and laboratory results reported herein are considered sufficient in detail and scope to determine the presence of airborne Combustion By-Product Compounds in Student Housing East. Global Environmental Training & Consulting, Inc. warrants that the findings contained herein have been prepared in general accordance with accepted professional practices at the time of its preparation as applied by similar professionals in the community. Changes in the state of the art or in applicable regulations cannot be anticipated and have not been addressed in the report.

The air sampling and analytical methods have been used to provide the client with information regarding the presence of Combustion By-Product Compounds existing in the Student Housing East at the time of sampling. Test results are valid only for the areas tested. There is a distinct possibility that conditions may exist which could not be identified within the scope of the study of which were not apparent during the site visit.

No other warranties are implied or expressed.

APPENDIX A

AIR SAMPLING LOG

E-mail: microbiology99@aol.com

[illegible]

Chain of Custody / Microbiology Sample Log



Pasteur Laboratory

158 N. Glendora Ave., Suite S (2nd floor)
Glendora, CA 91741
Tel: (626) 963-8686
E-mail: microbiology99@aol.com

Page 2 of 7

NOTES:

CONTACT INFORMATION												
Company: Global Environmental Training & Consulting					Address: 1520 W. Cameron Ave., Suite 103, West Covina, CA							
Contact: Mario Virgen / Miguel Virgen					Fax results Y / N							
Phone: 626-962-4436					Fax & Invoice to: 626-962-4437							
					Email results Y / N							
					staff@globalenvirotraining.com							
PROJECT INFORMATION					TURN AROUND TIME - (TAT)							
Project Name: CSULA - Student Housing East					ND - 24 Hour (+50%)							
Project Number: E225-004					Rushes received after 2pm or on weekends, will be considered received the next business day.							
Sampling Date: January 12, 2025					SD - Same Day (+75%)							
					WH - Weekend/Holiday (+100%)							
Sample ID	Sample Location	Sample Type	TAT (Above)	Flow Rate	Time	Total Volume	Fungi - Spore Trap Analysis	Fungi & Biological Particles	Fungi - Direct Microscopic Exam	Fungi - Standard Quant. Analysis	E. coli / Coliform Screen (MUG)	Bacteria - Quantitative Analysis
18	5th Floor - Tower 1 - Study Lounge A	AI	SD	1500	10 min	150						
19	1st Floor - Lounge B											
20	6th Floor - Tower 1 - Study Lounge A											
21	1st Floor - Lounge B											
22	1st Floor - Lounge B											
23	7th Floor - Tower 1 - Study Lounge A											
24	1st Floor - Lounge B											
25	1st Floor - Lounge B											
26	1st Floor - Lounge B											
27	8th Floor - Tower 2 - Study Lounge A											
28	1st Floor - Lounge B											
29	1st Floor - Lounge B											
30	7th Floor - Tower 1 - Study Lounge A											
31	1st Floor - Lounge B											
32	1st Floor - Lounge B											
33	6th Floor - Tower 2 - Study Lounge A											
34	1st Floor - Lounge B											
35	1st Floor - Lounge B											
SAMPLE TYPE CODES							RELINQUISHED BY	DATE	RECEIVED BY	DATE		
AP - Andersen Plate CP - Contact Plate												
Z - Zefon Air-O-Cell AI - AllergencoD												
T - Tape S - Swab BL - Bulk												
M2 - Allegro M2 - Multimold Cassette												

Study Room is clean

Chain of Custody / Microbiology Sample Log



Pasteur Laboratory
 158 N. Glendora Ave., Suite S (2nd floor)
 Glendora, CA 91741
 Tel: (626) 963-8686
 E-mail: microbiology99@aol.com

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Page 3 of 4

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					Email results Y / N							
					staff@globalenvirotraining.com							
PROJECT INFORMATION					TURN AROUND TIME - (TAT)							
Project Name: CSULA - Student Housing East					ND - 24 Hour (+50%)							
Project Number: E225-004					SD - Same Day (+75%)							
Sampling Date: January 12, 2025					WH - Weekend/Holiday (+100%)							
					Rushes received after 2pm or on weekends, will be considered received the next business day.							
Sample ID	Sample Location	Sample Type	TAT (Above)	Flow Rate	Time	Total Volume	Fungi - SporeTrap Analysis	Fungi & Biological Particles	Fungi - Direct Microscopic Exam	Fungi - Standard Quant. Analysis	E. coli / Coliform Screen (MUG)	Bacteria - Quantitative Analysis
36	5th Floor - Tower 2 - Study Lounge A	Air	570	150pm	10 min	150L						
37	1st Floor Lounge B											
38	1st Floor Lounge B											
39	4th Floor - Tower 2 - Study Lounge A											
40	1st Floor Lounge B											
41	1st Floor Lounge B											
42	3rd Floor - Tower 2 - Study Lounge A											
43	1st Floor Lounge B											
44	1st Floor Lounge B											
45	2nd Floor - Tower 2 - Study Lounge A											
46	1st Floor Lounge B											
47	1st Floor Lounge B											
48	2nd Floor - Tower 3 - Study Lounge A											
49	1st Floor Lounge B											
50	1st Floor Lounge B											
51	3rd Floor - Tower 3 - Study Lounge A											
52	1st Floor Lounge B											
53	1st Floor Lounge B											
SAMPLE TYPE CODES							RELINQUISHED BY	DATE	RECEIVED BY	DATE		
AP - Andersen Plate CP - Contact Plate								1/13/20				
Z - Zefon Air-O-Cell All - AllergencoD												
T - Tape S - Swab BL - Bulk												
M2 - Allegro M2 - Multimold Cassette												

APK, clear 1 foot

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Fax results Y / N	Fax & Invoice to: 626-962-4437
Email results Y / N	staff@globalenvirotraining.com

Project Name: CSULA - Student Housing East	TURN AROUND TIME: (TAT)
Project Number: E225-004	ND - 24 Hour (+50%)
Sampling Date: January 12, 2025	SD - Same Day (+75%)
	Rushes received after 2pm on weekends, will be considered received the

ND - 24 Hour (+50%)	Rushes received after 2pm or on weekends, will be considered received the next business day.
SD - Same Day (+75%)	
WH - Weekend/Holiday (+100%)	

Sample ID	Sample Location	Sample Type	TAT (Above)	Flow Rate	Time	Total Volume
54	4th Floor - Tower 3 - Study Lounge A	All	50	1504	10 min	1568
55	4th Floor - Tower 3 - Study Lounge B					
56	5th Floor - Tower 3 - Study Lounge A					
57	5th Floor - Tower 3 - Study Lounge B					
58	6th Floor - Tower 3 - Study Lounge A					
59	6th Floor - Tower 3 - Study Lounge B					
60	6th Floor - Tower 3 - Study Lounge A					
61	6th Floor - Tower 3 - Study Lounge B					
62	7th Floor - Tower 3 - Study Lounge A					
63	7th Floor - Tower 3 - Study Lounge B					
64	8th Floor - Tower 3 - Study Lounge A					
65	8th Floor - Tower 3 - Study Lounge B					
66	9th Floor - Tower 3 - Study Lounge A					
67	9th Floor - Tower 3 - Study Lounge B					
68	Outside (Control)					
69	Outside (Control)					

SAMPLE TYPE CODES	
AP - Andersen Plate	CP - Contact Plate
Z - Zefon Air-O-Cell	AI - AllergencoD
T - Tape	S - Swab
	BL - Bulk
M2 - Allegro M2	Multimold Cassette

[illegible]

RECEIVED BY	DATE
	

NOTES:

Xpdk, 100 + 2 Char

APPENDIX B

ANALYTICAL REPORTS

1/13/2025



158 N. Glendora Ave., Suite S

Glendora, CA 91741

Tel: (626) 963-8686

E-mail: microbiology99@aol.com

Lab Reference No.:	00028-25-0040
Date Collected:	January 12, 2025
Date Received:	January 13, 2025
Date Analyzed:	January 13, 2025
Sample(s) analyzed:	69

*Background debris is an indication of amounts of biological and non-biological particulate matters present on the sample and is characterized as *very light, light, moderate, heavy* or *very heavy*. *Very heavy* background debris may obscure particulate matters, reducing visibility during analysis. Consequently, counts from very heavy background debris should be considered minimal. *The laboratory and its personnel shall not be held liable for any misinformation provided to us by the client regarding these samples or for any misuse or interpretation of information supplied by us. This report relates only to samples submitted and analyzed*

1/13/2025

Pasteur Laboratory

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Tel: (626) 963-8686

E-mail: microbiology99@aol.com

Lab Reference No.: 00028-25-0040

Date Collected: January 12, 2025

Date Received: January 13, 2025

Date Analyzed: January 13, 2025

Sample(s) analyzed: 69

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Sample(s) were analyzed by: P. Chakravarty, Ph.D., Sr. Environmental Microbiologist

P. Chakravarty

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1/13/2025



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Global Environmental Training & Consulting
1520 W. Cameron Ave., Suite 103, West Covina, CA 91790
Tel: 626-962-4436 Fax: 626-962-4437
E-mail: staff@globalenvirotraining.com
Client's Project: CSULA - Student Housing East E225-004

Lab Reference No.: 00028-25-0040

Date Collected: January 12, 2025

Date Received: January 13, 2025

Date Analyzed: January 13, 2025

Sample(s) analyzed: 69

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Sample(s) were analyzed by: P. Chakravarty, Ph.D., Sr. Environmental Microbiologist

P. Chakravarty

1/13/2025



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Sample(s) were analyzed by: P. Chakravarty, Ph.D., Sr. Environmental Microbiologist

P. Chakravarty

Page 4 of 18

1/13/2025



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Tel: (626) 963-8686

E-mail: microbiology99@aol.com

Lab Reference No.:	00028-25-0040
Date Collected:	January 12, 2025
Date Received:	January 13, 2025
Date Analyzed:	January 13, 2025

Sample(s) analyzed: 69

Laboratory Sample ID	12290			12291			12292			12293		
Client Sample ID	17			18			19			20		
Location	4th Fl - Tower 1 - Study Lounge B			5th Fl - Tower 1- Study Lounge A			5th Fl - Tower 1- Floor Lounge			5th Fl - Tower 1 - Study Lounge B		
Volume (L)	150			150			150			150		
Background Debris*	Light AllergencoD			Light AllergencoD			Light AllergencoD			Light AllergencoD		
Sample Description	Raw cts	No./m ³	%	Raw ct	No./m ³	%	Raw cts	No./m ³	%	Raw cts	No./m ³	%
Char particulate:	11	73	78.49	15	100	78.74	5	33	100.00	9	60	89.55
Soot particulate	2	13	13.98	1	7	5.51	0	0	0.00	0	0	0.00
Ash:	1	7	7.53	3	20	15.75	0	0	0.00	1	7	10.45
Total numbers / m³	93			127			33			67		
Comments												
Limit of Detection	7			7			7			7		

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1/13/2025



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Client's Project: CSULA - Student Housing East E225-004

Lab Reference No.:	00028-25-0040
Date Collected:	January 12, 2025
Date Received:	January 13, 2025
Date Analyzed:	January 13, 2025

Sample(s) analyzed: 69

*Background debris is an indication of amounts of biological and non-biological particulate matters present on the sample and is characterized as very light, light, moderate, heavy or very heavy. Very heavy background debris may obscure particulate matters, reducing visibility during analysis. Consequently, counts from very heavy background debris should be considered minimal. The laboratory and its personnel shall not be held liable for any misinformation provided to us by the client regarding these samples or for any misuse or interpretation of information supplied by us. This report relates only to samples submitted and analyzed.

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Sample(s) were analyzed by: P. Chakravarty, Ph.D., Sr. Environmental Microbiologist

P. Chakravarty

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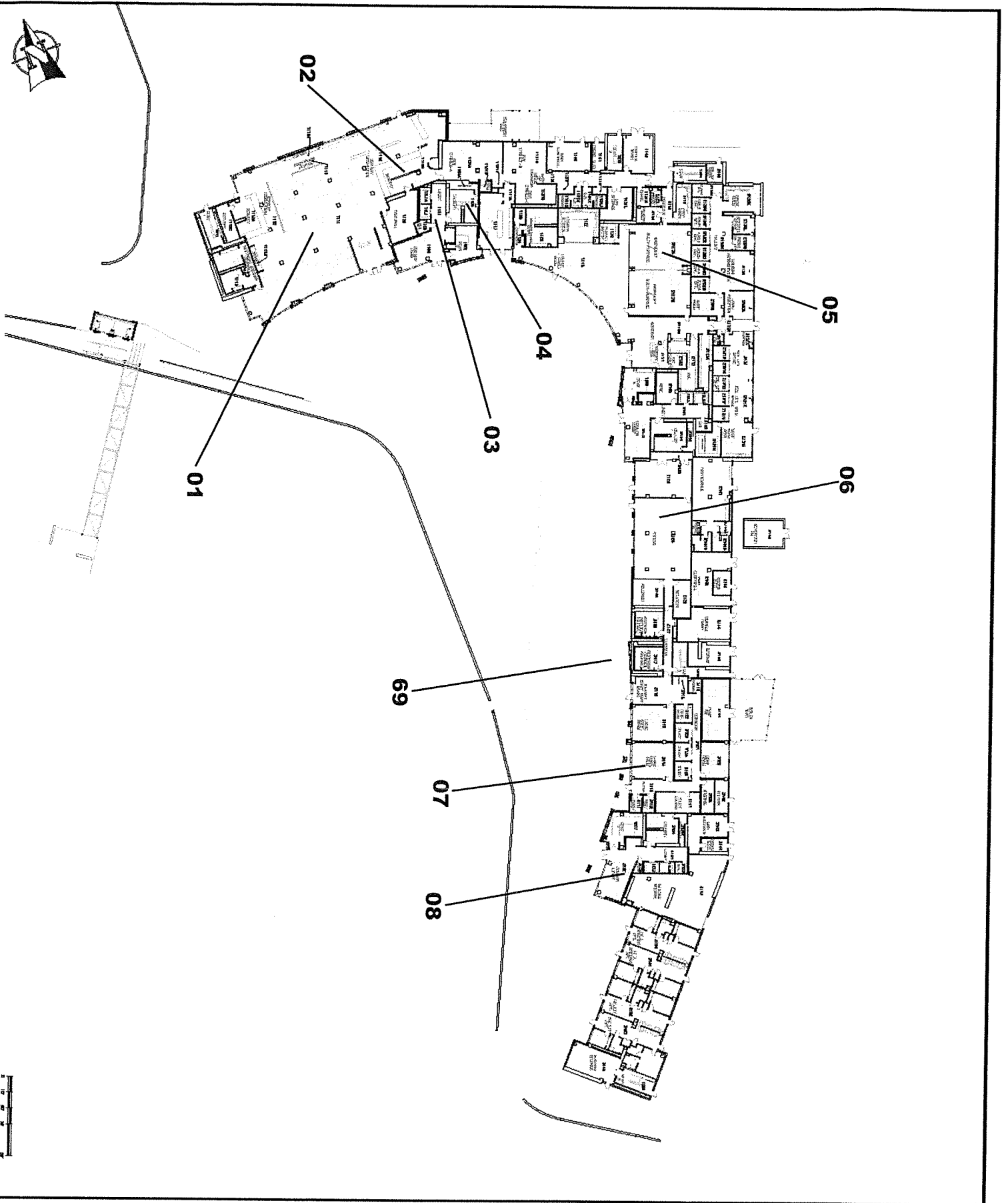
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P. Chakravarty Page 18 of 18

APPENDIX C

SAMPLING SCHEME



53

BLDG

STUDENT HOUSING EAST

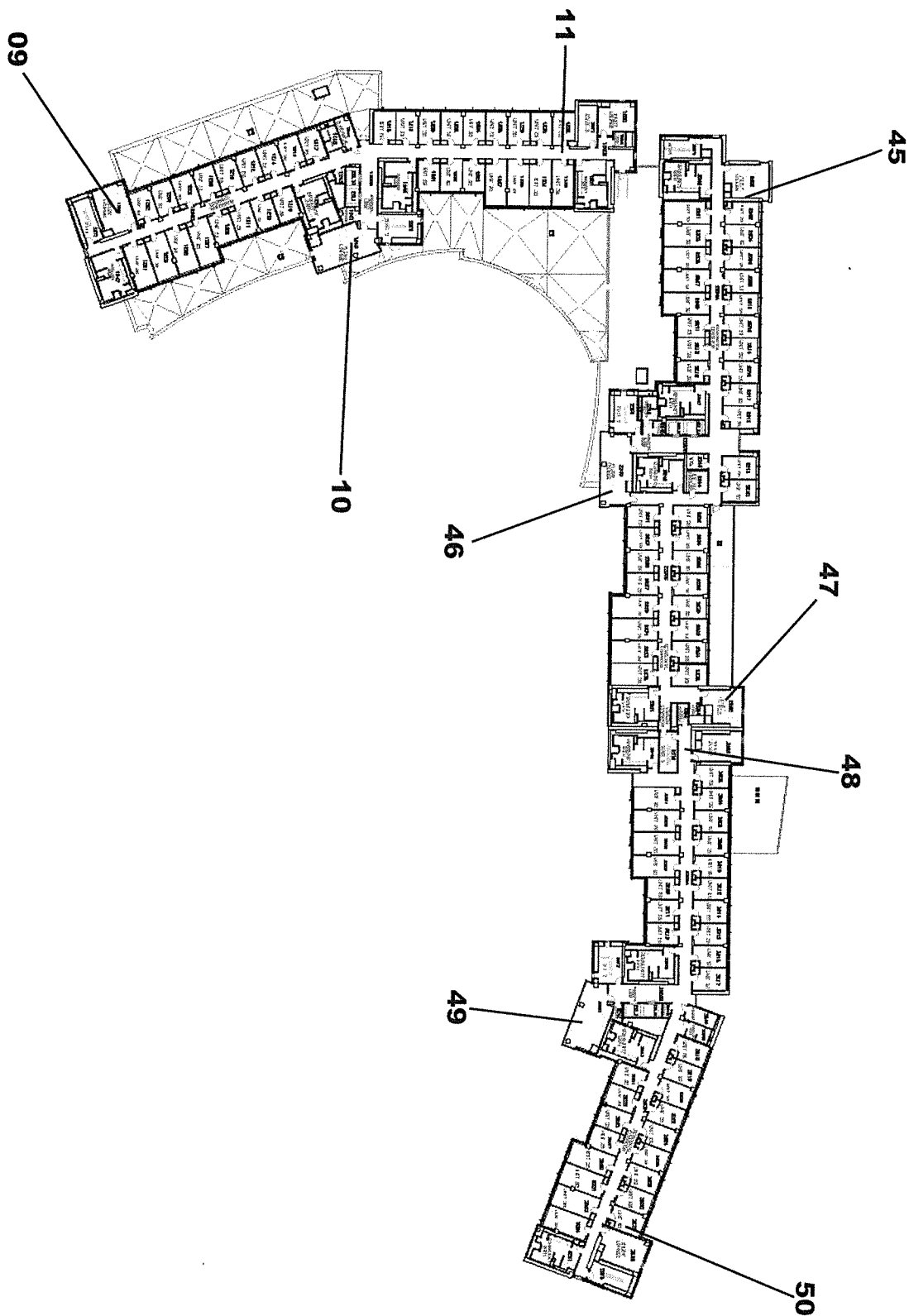
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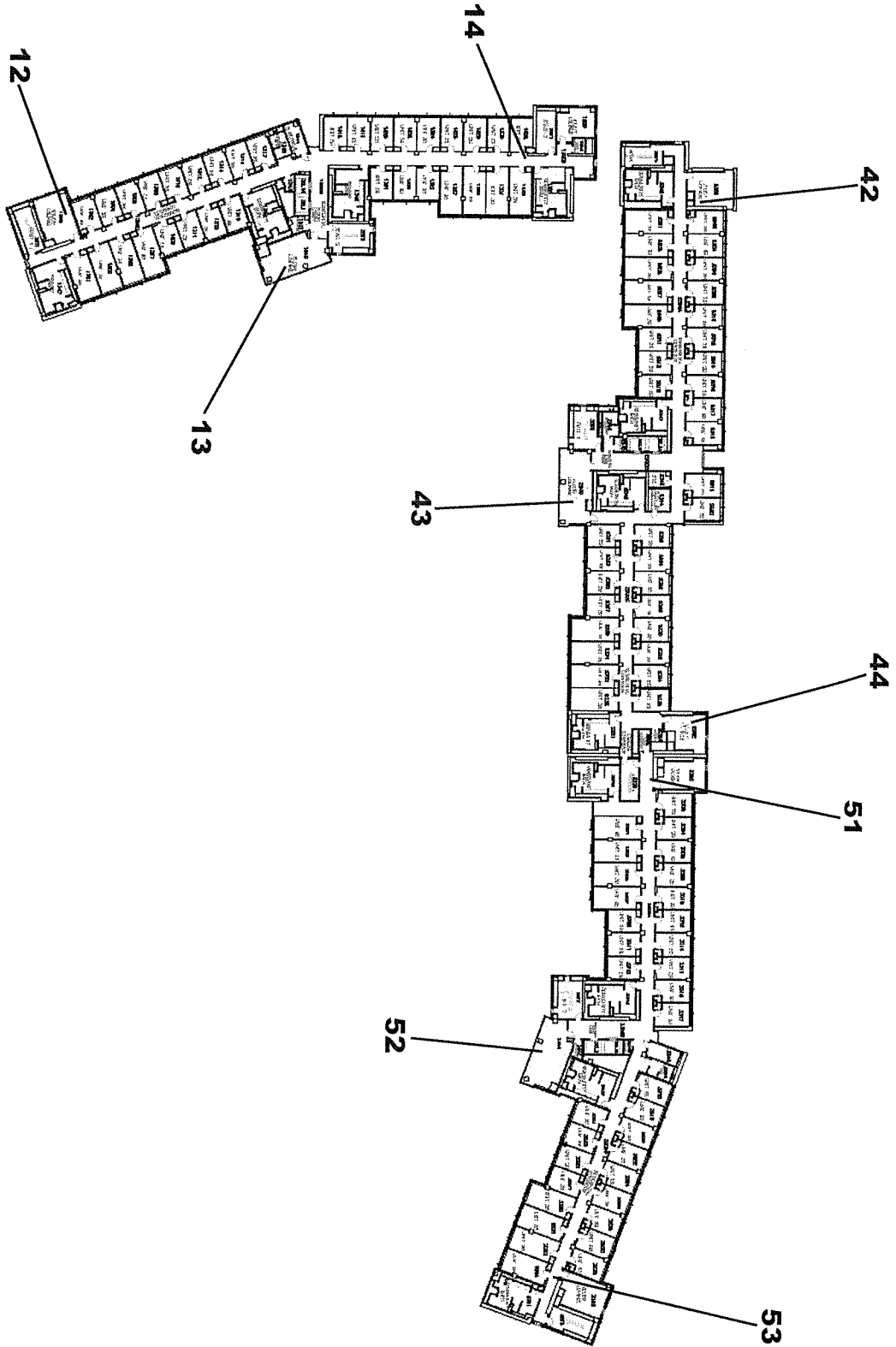
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53
BLDG

STUDENT HOUSING EAST

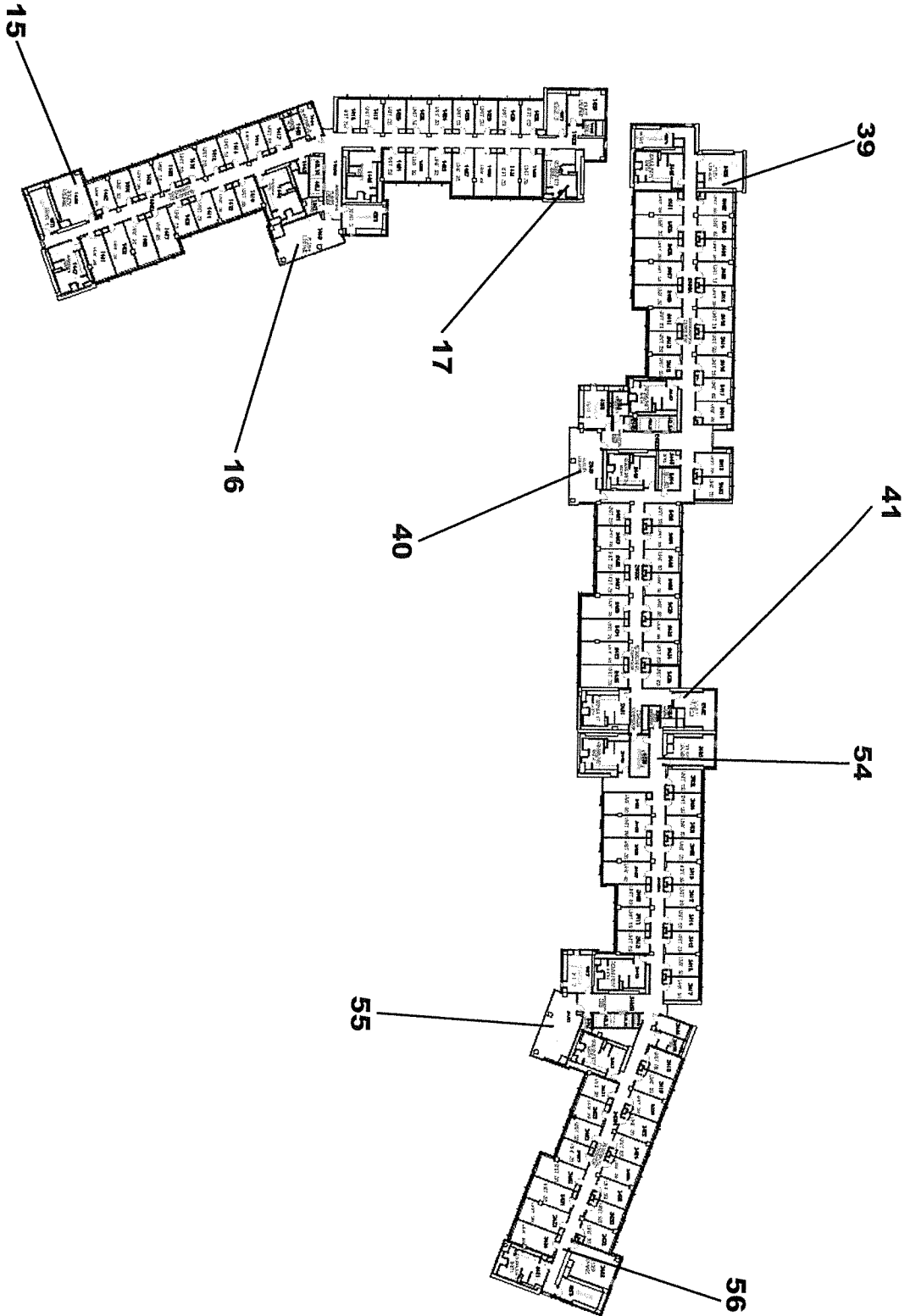
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LAST UPDATED: 8-24-22



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53 BLDG

STUDENT HOUSING EAST

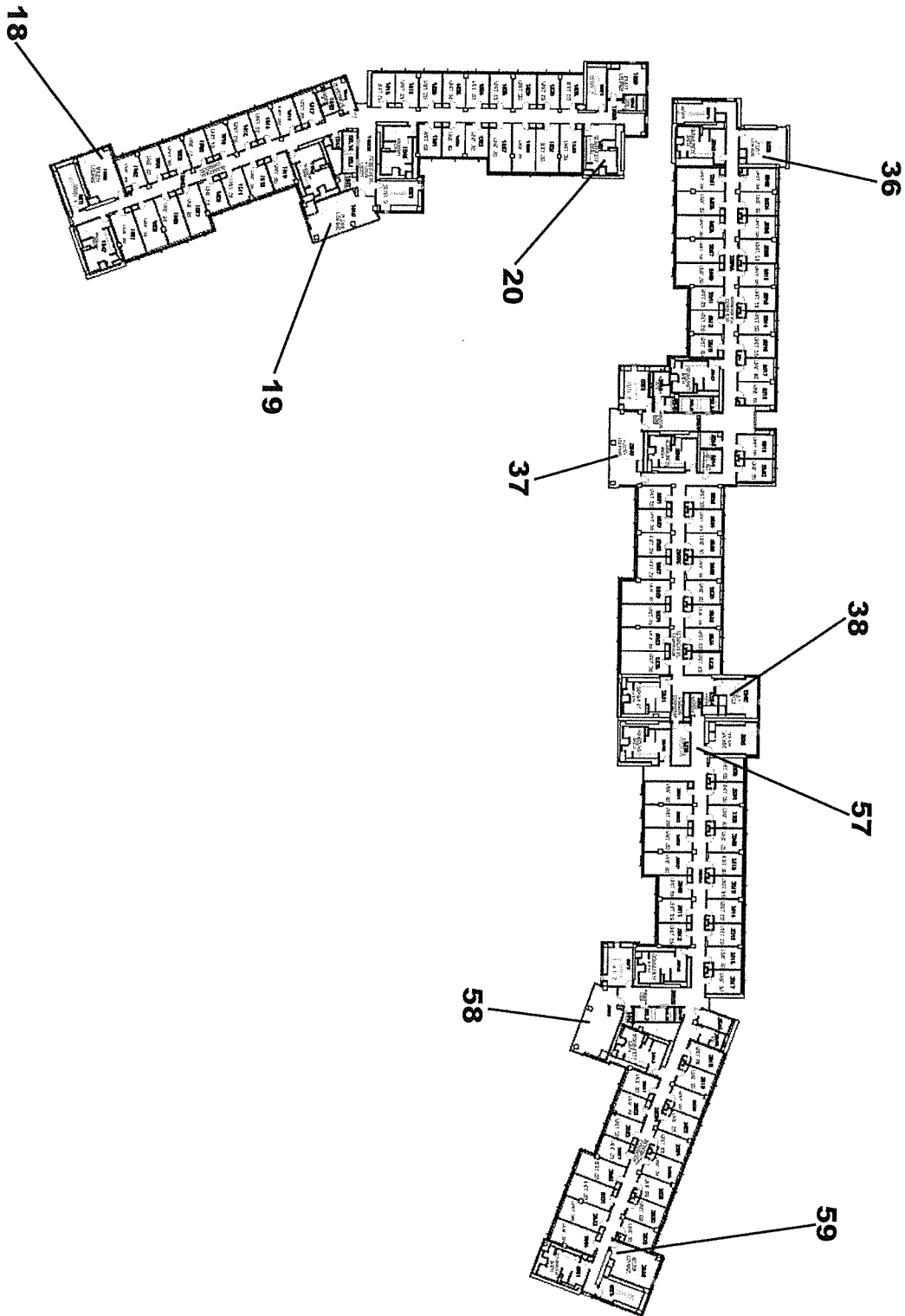
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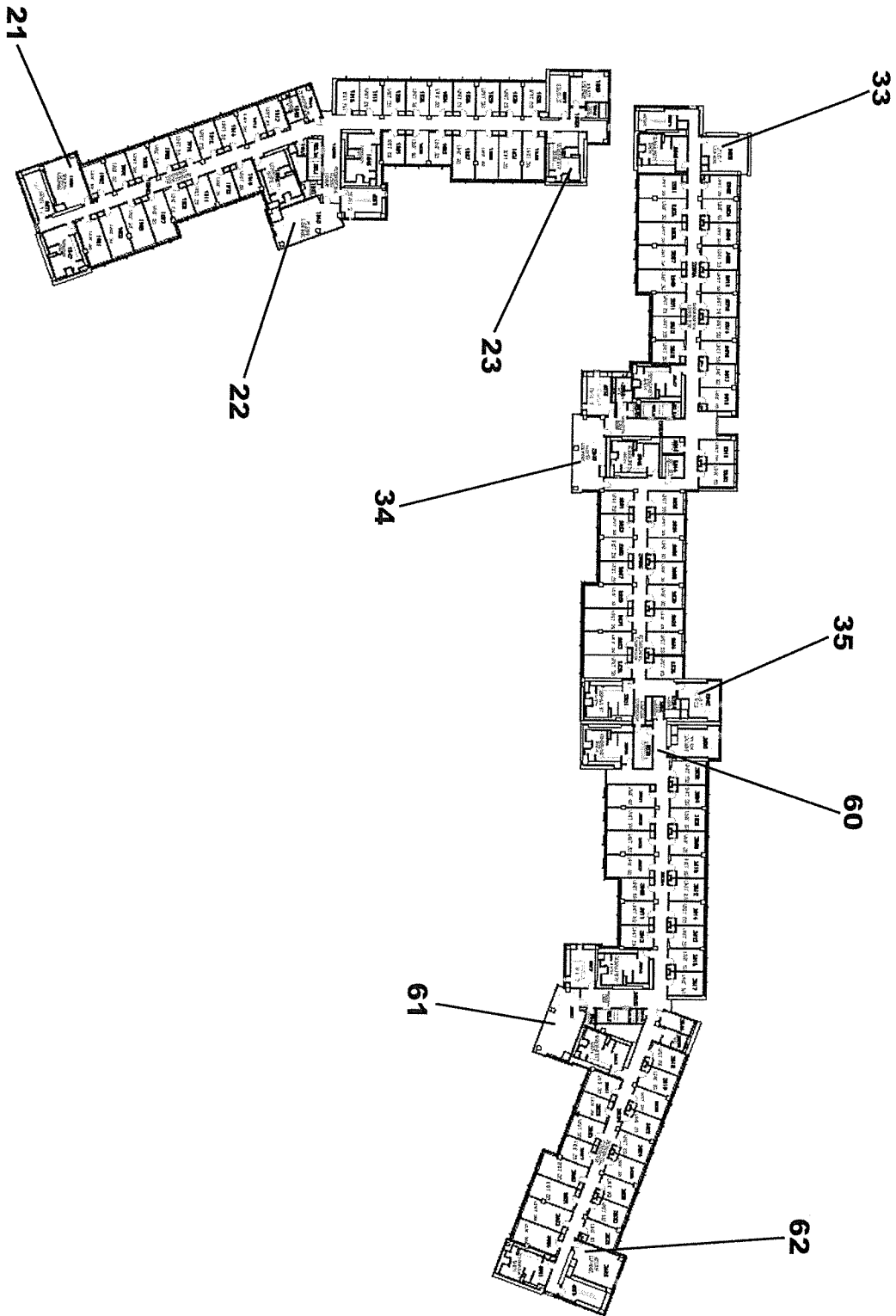
LAST UPDATED: 8-24-22

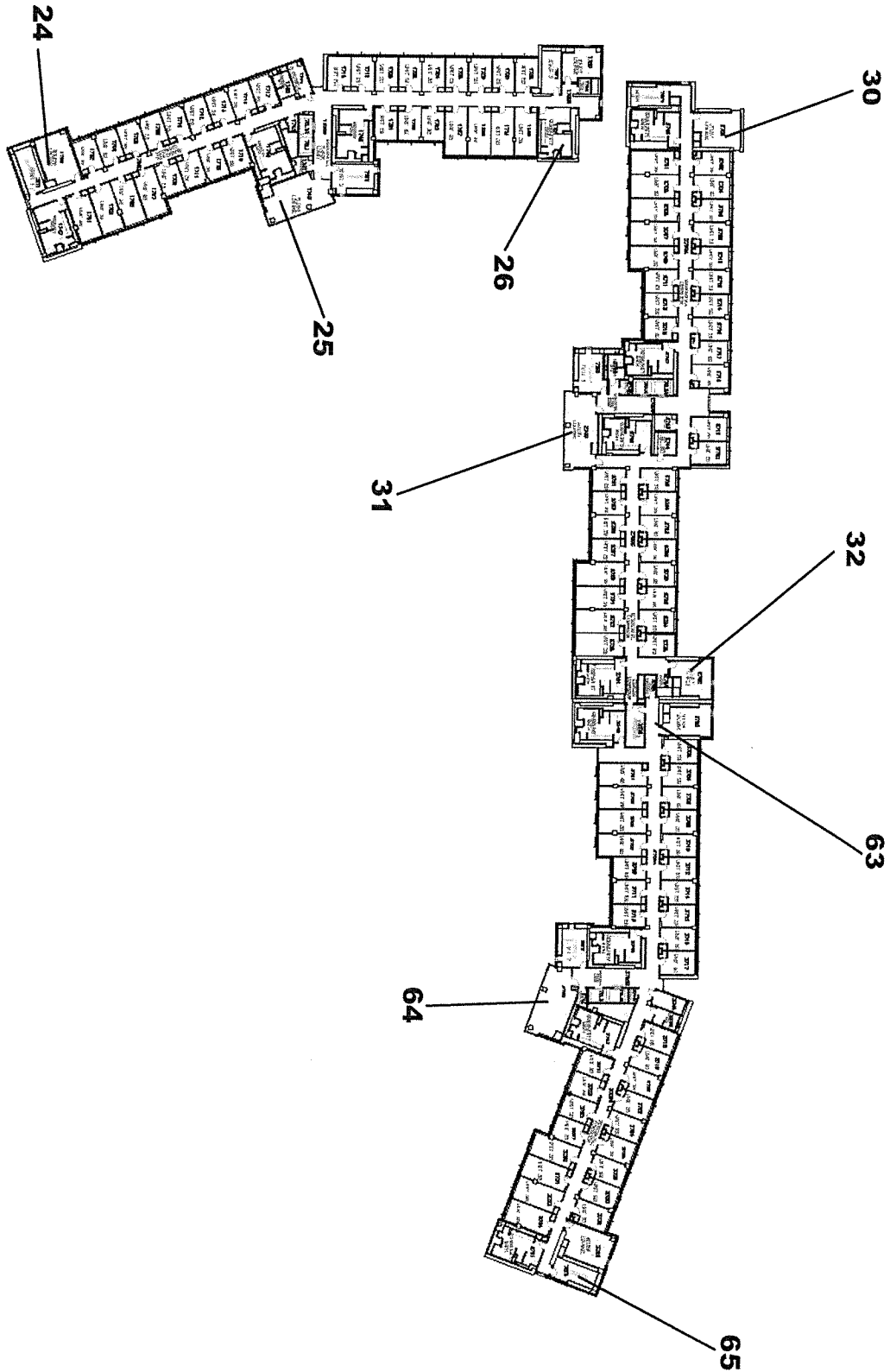


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53
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STUDENT HOUSING EAST

SEVENTH FLOOR

LAST UPDATED: 8-24-22



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