

1520 W. Cameron Ave., Suite 103 ♦ West Covina, CA 91790 Ph. 626-962-4436 ♦ Fx. 626-962-4437 ♦ www.globalenvirotraining.com

Combustion By-Product / Testing / Analysis

Jobsite:

CALIFORNIA STATE UNIVERSITY LOS ANGELES (CSULA) ROSSER HALL 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 16, 2025

PROJECT №. **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)
Rosser Hall
5151 University Dr.
Los Angeles, CA 90032

GETC Project №. 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 13, 2025, throughout Rosser Hall, 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 Rosser Hall 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. Chris 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 Rosser Hall (13 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)

		ROSSER HALL			
SAMPLE NO.	LOCATION	CHAR PARTICULATES	SOOT PARTICULATES	ASH	TOTAL
01	OUTSIDE (CONTROL)	26,087	193	207	26,487
02	ROOM 0132	87	7	47	141
03	HALLWAY NEAR 0155	60	0	20	80
04	HALLWAY NEAR 0144	73	0	13	86
05	HALLWAY NEAR 0162	93	0	40	133
06	HALLWAY NEAR 256	113	0	47	160
07	HALLWAY NEAR 0263	73	0	20	93
08	ROOM 223	3,713	73	140	3,926
09	HALLWAY NEAR 0249	87	0	33	120
10	HALLWAY NEAR 382	527	33	153	713
11	HALLWAY NEAR 362	47	0	33	80
12	HALLWAY NEAR 321A	33	0	20	53
13	HALLWAY NEAR 347	120	7	47	174

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 Rosser Hall.

2.2 SAMPLING PROCEDURES AND ANALYSIS

Sampling Procedure

The inspector collected Thirteen (13) air samples from Rosser Hall. 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 Rosser Hall. 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 Rosser Hall 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

Chain of Custody / Microbiology Sample Log



						REQU	ESTED	REQUESTED SERVICES	ES	NOTES:
*	Pasteur Laboratory					ပ	HECK	CHECK BOXES)		
	158 N. Glendora Ave., Suite S (2nd floor)					Non - Culturable	ble	Culturable	ble	
	Glendora, CA 91741		ĺ			Spore	Таре	Anderson, Swab,	Swab,	
	E-mail: microbiology99@aol.com	700	>> /				Swab v	Water, Bulk, Dust, Soil, Contact Plate	ust, Soil,	ŧ
4			Page ₋	e of 1	1					*
	CONTACT INFORMATION	Z						(
Company: Global Envir	Company: Global Environmental Training & Consulting	Address: 1520	W. Cameron A	Address: 1520 W. Cameron Ave., Suite 103, West Covina, CA	Vest Covina, CA					
Contact: Mario Virgen / Miguel Virgen	/ Miguel Virgen	Fax results Y / N	//N Fax	Fax & Invoice to: 626-962-4437	6-962-4437		we	-	si	~12
Phone: 626-962-4436		Email results Y / N		staff@globalenvirotraining.com	raining.com		хЭ		syle	40
	PROJECT INFORMATION	IL.	112	TURN AROUND TIME - (TAT)	(TAT)		oiqo		snA) :
Project Name: CSULA	- Rosser Hall					snA	osc		əvit	/
Project Number: E225-004	-004	ND - 24 Ho	ND - 24 Hour (+50%)	Rushes	Rushes received after 2pm	rap	Nicr		stita	4
Sampling Date: January 13, 2025	ry 13, 2025	so - Same	sp - Same Day (+75%)		considered received the	Teac	V toe		nen	-05
		WH - Weeke	WH - Weekend/Holiday (+100%)		next business day.		Dire		D - E	. /
Sample ID	Sample Location	Sample	TAT FI	Flow Time		- ignu 8 ignu	- įbur	- ignu - iloo	sinetos	nst
10	Osterilo Catan	+	(Above) K	кате	Volume		님	+	88	
20									I	
53	3						+			
60	near						$\frac{\perp}{1}$	1		-
05	1 .5					Ī	$\frac{1}{1}$			
OS	Hallway Wear 256						-			and the same of th
CI	Hallway Mean 0263			*			f			
200	Room 223		a a							
60	Hallyway Meny 0249									+
2	Hallowy ARON 382									
	Hallvay Mear 362				No.					
4	Halluch near 321A									-
0	Mallway Moon 347									ma tura
									7	1

		-86					\dagger			
		RELING	RELINQUISHED BY	Y DATE		RECEIVED BY		DATE		
AP - Andersen Plate	0)		1	[115]	5				9	4
Z - Zefon Air-O-Cell	All - Aller							/		
M2 - Allogro M2 Multir	Swab BL - Bulk							5//		
INZ - MIEGIO INZ - INIUIIIIOIO CASSEILE	אומוווווסום כשפפפופ	i	PER			,	_	1		£2

APPENDIX B ANALYTICAL REPORTS

Char / Soot / Ash Particulate Report (Aerosol Samples)

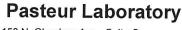
1520 W. Cameron Ave., Suite 103, West Covina, CA 91790

1/14/2025

Global Environmental Training & Consulting

Tel: 626-962-4436 Fax: 626-962-4437

Mario Virgen/Miguel Virgen



158 N. Glendora Ave., Suite S Glendora, CA 91741 Tel: (626) 963-8686

E-mail: microbiology99@aol.com

Lab Reference No.: Date Collected:

00028-25-0046 January 13, 2025

Date Received: Date Analyzed: January 13, 2025 January 13, 2025

E-mail: staff@globalenvirot						Date /	Analyze	d:	Janua	ary 13, 2	2025	
Client's Project: CSULA- Re	osser Ha	II - E225	5-004			Samp	le(s) an	alyzed:	13			
Laboratory Sample ID		12413			12414		T	12415			12416	
Client Sample ID		01			02			03			04	
Location	Out	tside / Co	ntrol		Rm 013	2	Hallv	way near	0155	Hall	way near	0144
Volume (L)		150		1	150		1	150		 	150	
Background Debris*		Heavy	MI.		Light			Light			Light	
Sample Description		llergenco		F	Allergence			llergenco	D	F	Allergenco	D D
	_	No./m°	%	Raw ct	No. /m°	%	Raw cts	No./m³	%	Raw cts	No. /m°	%
Char particulate:	3913	26,087	98.49	13	87	61.70	9	60	75.00	11	73	84.88
		-										
							-					
			Si Si									
Soot particulate	29	193	0.73	1	7	4.96	0	0	0.00	0	0	0.00
							1 1					
Ash:	31	207	0.78	7	47	33.33	3	20	25.00	2	13	15.12
Total numbers / m³		26,487			141			80			86	
Comments									-			
Limit of Detection		7			7			7			7	
*Background debris is an indica	tion of am	ounts of	hiologia	al and n	on biolog	inal mark	iaulata m	-44		41		

*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

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

P. Chakravarty

Page 1 of 1

Char / Soot / Ash Particulate Report (Aerosol Samples)

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1/14/2025

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Mario Virgen/Miguel Virgen



Pasteur Laboratory

158 N. Glendora Ave., Suite S Glendora, CA 91741 Tel: (626) 963-8686

E-mail: microbiology99@aol.com

Lab Reference No.:

00028-25-0046 January 13, 2025

Date Collected: Date Received:

January 13, 2025

Date Analyzed:

January 13, 2025

Client's Project: CSULA- Ro			5-004			Samp	le(s) an	alyzed:	13				
Laboratory Sample ID		12417			12418			12419		1	12420		
Client Sample ID		05			06			07			08		
Location	Hall	way nea	r 0162	Hal	lway nea	r 256	Hall	way near	0263		Rm 223	ı	
Volume (L)	1	150		 	150		-	150		-	150		
Background Debris*		Light			Light			Light			Moderate	۵	
Sample Description		Allergeno		1	llergenc	οD	A	llergence	DD D	-	Allergence		
	Raw ct	No./m	′ %	Raw ct	No. /m°	%	Raw cts	No. /m	%		No. /m°	%	
Char particulate:	14	93	69.92	17	113	70.63	11	73	78.49	557	3713	94.57	
			+										
Soot particulate	0	0	0.00	0	0	0.00	0	0	0.00	11	73	1.86	
								-					
					,								
Ash:	6	40	30.08	7	47	29.38	3	20	21.51	21	140	3.57	
	1												
Total numbers / m³		133			160			93			3,926		
Comments	-												
_imit of Detection 'Background debris is an indicat	<u> </u>	7		L	7			7			7		

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 h eavy 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 sp. Charactery

Char / Soot / Ash Particulate Report (Aerosol Samples)

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E-mail: microbiology99@aol.com

Lab Reference No.: Date Collected:

00028-25-0046 January 13, 2025

Date Received: Date Analyzed: January 13, 2025 January 13, 2025

Client's Project: CSULA- Ro			5-004			Samp	le(s) and	alyzed:	13				
Laboratory Sample ID		12421			12422			12423		1	12424		
Client Sample ID		09		10 Hallway near 382				11		12 Hallway near 321A			
Location	Hall	way nea	r 0249				Hall	way nea	r 362				
Volume (L)		150			150			150	-	-	150		
Background Debris*		Light			Moderat	e		Light			Light		
Sample Description		Hall - E225-004 Sample(s) 12421	А	AllergencoD AllergencoD									
			%	Raw ct	No./m`	%	Raw cts	No. /m	%	Raw ct	No. /m²	%	
Char particulate:	13	87	72.50	79	527	73.91	7	47	58.75	5	33	62.26	
Soot portionlete													
Soot particulate	0	0	0.00	5	33	4.63	0	0	0.00	0	0	0.00	
100													
Ash:	5	33	27.50	23	153	21.46	5	33	41.25	3	20	37.74	
			27.00	20	100	21.40		- 55	41.23	3	20	37.74	
Total numbers / m³		120			713			80			53	L	
Comments													
Limit of Detection *Background debris is an indica		7			7			7			7		

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 sp. Chakararaty

Char / Soot / Ash Particulate Report (Aerosol Samples)

1/14/2025



E-mail: microbiology99@aol.com

Mario Virgen/Miguel Virgen

Global Environmental Training & Consulting

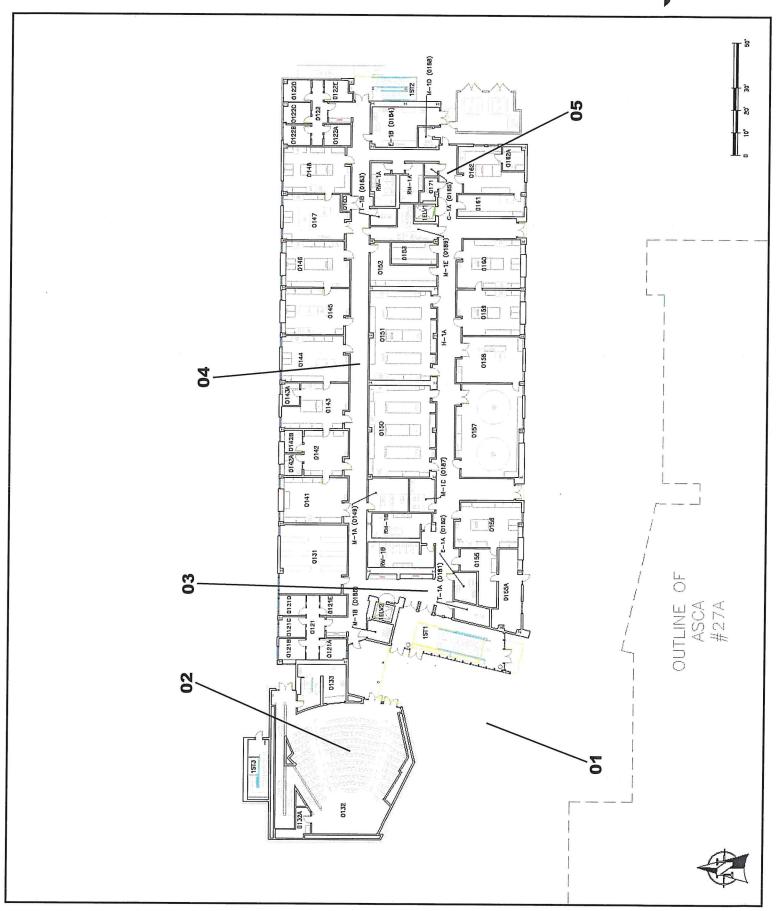
1520 W. Cameron Ave., Suite 103, West Covina, CA 91790
Tel: 626-962-4436 Fax: 626-962-4437
E-mail: staff@globalenvirotraining.com

Lab Reference No.: 00028-25-0046
Date Collected: January 13, 2025
Date Received: January 13, 2025
Date Analyzed: January 13, 2025

Client's Project: CSULA- Rosser Hall - E225-004 Sample(s) analyzed: 13 Laboratory Sample ID 12425 Client Sample ID 13 Location Hallway near 347 Volume (L) 150 Background Debris* Light Sample Description AllergencoD Raw cts No. /m° Char particulate: 120 68.97 Soot particulate 4.02 Ash: 47 27.01 Total numbers / m³ 174 Comments Limit of Detection #VALUE! #VALUE!

*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 h eavy 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 and the samples of the samples of the client regarding these samples or for any misuse or interpretation of information supplied by us. This report relates only to samples and its personnel shall not be held liable for any misuse or interpretation of information supplied by us. This report relates only to samples and the sample and is

APPENDIX C SAMPLING SCHEME

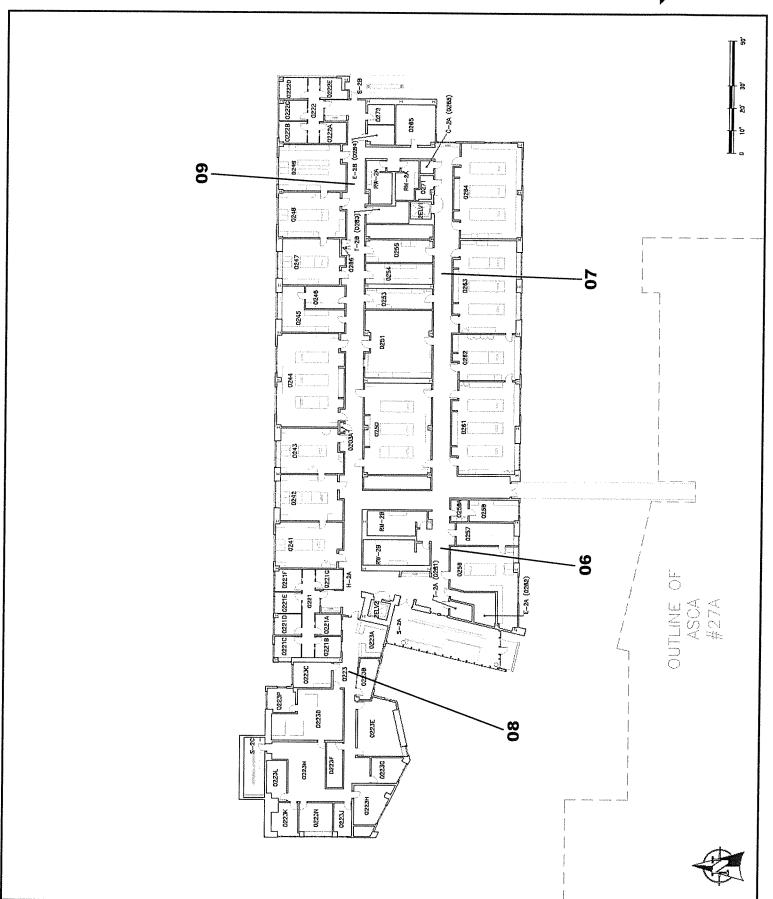




ASCB - James M. Rosser Hall FIRST FLOOR



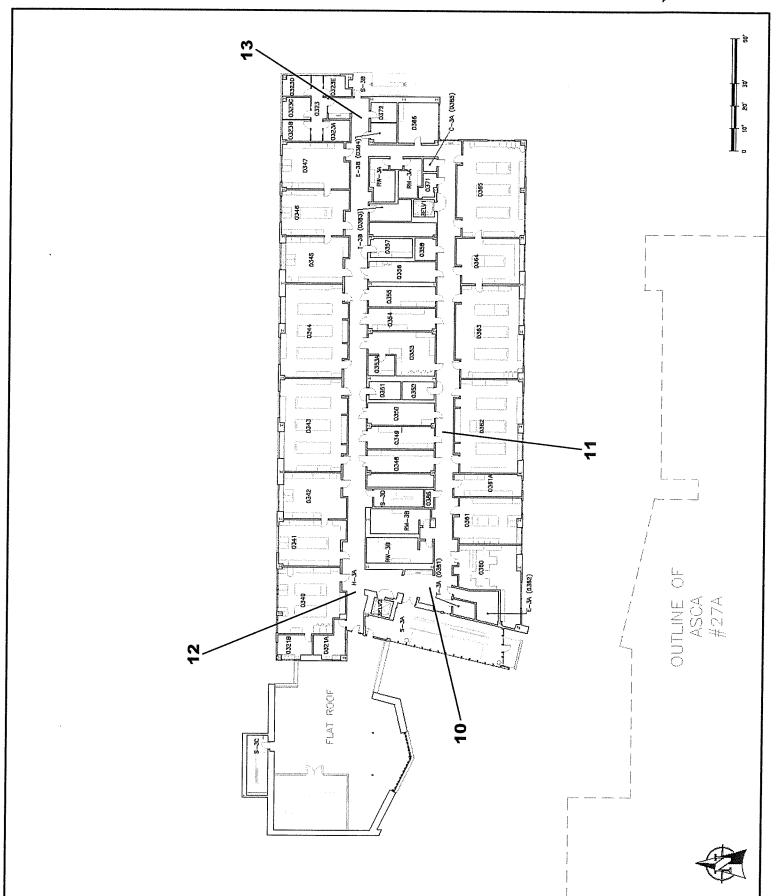
B1-8-S1 :03TAG9U T2AJ





ZECOND LICOOK ASCB - James M. Rosser Hall

LAST UPDATED: 12-8-16



CAL STATE LA

PLANNING, DESIGN & CONSTRUCTION

ASCB - James M. Rosser Hall THIRD FLOOR

BLDG 27B

at-8-st :03TAO9U T2AJ