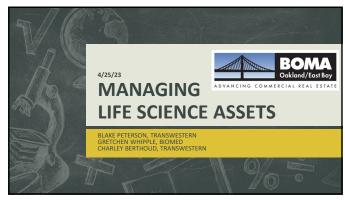


# Education & Learning MANAGING A LIFE SCIENCE PROPERTY

Tuesday, April 25 11:30 am - 1:30 pm Gate 510 | San Leandro





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### LIFE SCIENCE BUILDING INFRASTRUCTURE CHARACTERISTICS

- Large loading dock
- Taller slab-to-slab deck heights
- Separate lab exhaust systems
- Higher floor load capacity
- Significant power capacity
- Redundant MEP Systems w/ backups
- Specialty fire protection for specific uses
- Enhanced filtration systems
- Clean Room wall systems
- Common area Autoclave or Glass Wash?

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### TYPICAL BSL-1 LIFE SCIENCE PREMISES

- Mobile modular laboratory benches w/ movable shelves & specialty
   (regin) millwork
- (resin) millwork
- Sinks throughout Some office area
- Eye wash
- Emergency Shower
- Hoods
- Above-standard Electricity & HVAC capacity w/ redundancy
- Nitrogen Gas, O2, CDA, VAC distribution

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# LIFE SCIENCE PROPERTY MANAGER RESPONSIBILITIES 24/7 availability Specialty contractors Critical relationship between best-in-class engineering team and PM team Extended building hours Emvironmental Health & Safety contract & regular inspections & safety training Loading bock Management & Attended Fuel maintenance program for generators Haz Mat disposal & storage Construction coordination Tenant Equipment Maintenance Tenants included in FLS & access alarms Emergency Response Plans Tenant Communication Challenges PPE & protocol requirements for tenant premises access Building Project Coordination w/ Tenant project cycle Amenities Space

### LIFE SCIENCE LEASES MAY INCLUDE

- Specific electrical watts/sf
- Permitted uses
- Access control limitations
- Leak detection requirements
- Tenant provided janitorial
- When HVAC is provided & how submetered
- SDS reporting to Landlord
- Special environmental & pollution liability insurance coverage
- Potential Landlord penalties for extended interruption of utilities/services
- Detailed move-out & restoration requirements decommissioning

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### COMMON LIFE SCIENCE TERMINOLOGY

- Biosafety Level 1-4 (BSL)
   Biosafety Cabinet (BSC)
- CRISPR Gene Editing
- Clean Dry Air (CDA)
   Environmental Health & Safety (EH&S)
- Fume Hood
   Glass Washer
- Maximum Allowable Quantities (MAQs) for hazmat
- Vivarium
- High Efficiency Particulate Air(filter) (HEPA)
- Safety Data List (SDS) no longer MSDS

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Every industry has there own specialty terminology which then results in acronyms. Real estate is no different and we speak our own language. Here is a list of commonly used real estate abbreviations and acronyms and what they mean.

our own language.	Here is a list of commonly used real estate abbreviations and acronyms and what they mean.	
ACRONYM	MEANING	
1031 ABA	1031 Tax Deferred Exchange Architectural Barriers Act (for Federal Facilities in conjunction with ADA)	
AC	Air Conditioning	
ADA	Americans With Disabilities Act	
ADAAG	Americans With Disabilities Act Accessibility Guidelines	
AFE	Authority For Expenditure	
AFF	Above Floor Finish	
AFFO	Adjusted Fund From Operations	
AGM	Assistant General Manager	
AHJ	Authority Having Jurisdiction	
AHU	Air Handling Unit	
AIA	American Institute of Architects	
AP	Accounts Payable	
APM	Assistant Property Manager	
APR	Annual Percentage Rate	
AR	Accounts Receivable	
ASHRAE	American Society of Heating, Refrigeration, and AC Engineers	
BAE	BOMA Association Executive	
BAFO	Best & Final Offer	
BAS	Building Automation System	
BEEP	BOMA Energy Efficiency Program	
BI	Building Improvements	
BMS	Building Management System	
BOMA	Building Owners and Managers Association	
BOMI	Building Owners and Managers Institute	
BS	Balance Sheet Base Rent	
BR BSCAI	Building Service Contractors Association Inc	
CAD	Computer Aided Design (or CADD, Computer Aided Drafting & Design)	
CAM	Common Area Maintenance	
CAP	Capitalization	
CAP EX	Capital Expenditure	
CBA	Collective Bargaining Agreement	
CBD	Central Business District	
CBSE	Certified Building Service Executive	
CCD	Center City District	
CCTV	Closed Circuit Television	
CD's	Construction Drawings	
CO or CofO		
22 01 0010	certificate of occupancy	



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ACRONYM	MEANING
COI	Certificate of Insurance
CPA	Certified Public Accountant
CPI	Consumer Price Index
CPM	Certified Property Manager
CRE	Commercial Real Estate
CREW	Commercial Real Estate Women
DE&I	Diversity, Equity & Inclusion
D&I	Diversity & Inclusion
DBA	Doing Business As
DBPR	Department of Business and Professional Regulation
DEP	Department of Environmental Protection
DMARC	Telephone/Data Demarcation - usually where it enters the property
DOE	Department of Energy
EBITDA	Earnings Before Interest, Taxes, Depreciation & Amortization
EC	Electrical Contractor
EER	Experience Exchange Report
EFT	Electronic Funds (or Files) Transfer
EGR	Effective Gross Rent
EMS	Emergency Management System
EPA	Environmental Protection Agency
EPP	Emergency Preparedness Plan
FACP	Fire Alarm Control Panel
FAD	Funds Available for Distribution
FAR	Floor Area Ratio
FE	Fire Extinguishers
FEMA	Federal Emergency Management Agency
FF&E	Furniture, Fixtures and Equipment
FFO	Funds From Operations
FHA	Federal Housing Administration
FICA	Federal Insurance Contributions Act
FMA	Facilities Management Administrator
FMR	Fair Market Rent
FMV	Fair Market Value
FY	Fiscal Year
GC	General Contractor
GL	General Ledger
GM	General Manager
GRM	Gross Rent Multiplier
GSF	Gross Square Footage
HC	Handicapped



ACKONYM GOIDE		
ACRONYM	MEANING	
HOA	Home Owners Association	
HUD	Housing Urban Development	
HVAC	Heating Ventilating and Air Conditioning	
HW	Hot Water	
IAQ	Indoor Air Quality	
IDF	Independent Distribution Frame, a secondary information technology/telecom room/closet	
IFMA	International Facility Management Association	
INC	Incorporated	
IPO	Initial Public Offering	
IR	Infrared Technology	
IREM	Institute of Real Estate Management	
IRR	Internal Rate of Return	
IWCA	International Window Cleaners Association	
JV	Joint Venture	
KFA	Known Formerly As	
KPI	Key Performance Indicators	
LC	Leasing Commissions	
LEED	Leadership in Energy and Environmental Design LEED Accredited Professional	
LEED AP		
LEED EB LEED OM	LEED Existing Building LEED Operations & Maintenance	
LEED OM	Landlord	
LLC	Limited Liability Corporation	
LLP	Limited Liability Partnership	
LO	Lease Option	
LOC	Letter of Credit	
LOI	Letter of Intent	
LTV	Loan to Value (Ratio)	
LVT	Luxury Vinyl Tile (Flooring)	
M&A	Mergers & Acquisitions	
MDF	Main Distribution Frame (IT network / telecom room)	
MEP	Mechanical, Electrical, Plumbing	
MF	Multi-family	
MOU	Memo of Understanding	
MWBE	Minority or Women Business Entity	
NAIOP	National Association of Industrial & Office Properties	
NAR	National Association of Realtors	
NAV	Net Asset Value	
NFPA	National Fire Protection Agency	
NNN	Triple Net Lease	



ACRONYM	MEANING
NOC	Notice of Commencement
NOI	Net Operating Income
NPV	Net Present Value
OPEX	Operating Expenses
PAC	Political Action Committee
PGI	Potential Gross Income
PIR	Passive Infrared (Motion Detector)
P&L	Profit & Loss Statement
PM	Property Manager or Preventative Maintenance
POTS	Plain Old Telephone Service (analog phone line)
PPE	Personal Protective Equipment
PSA	Purchase Sales Agreement
PSV	Pressure Sensitive Vinyl - related to signage applied to smooth surfaces like glass
PY	Prior Year
Q1	1st quarter of year (calendar Jan, Feb & March, fiscal usually July, Aug & Sept)
Q2	2nd quarter of year (calendar Apr, May & June, fiscal usually Oct, Nov & Dec)
Q3	3rd quarter of year (calendar July, Aug, & Sept, fiscal usually Jan, Feb & March)
Q4	4th quarter of year (calendar Oct, Nov & Dec, fiscal usually Apr, May & June)
REA REIT	Reciprocal Easement Agreement Real Estate Investment Trust
REO	Real Estate Owned
RET	Real Estate Owned  Real Estate Taxes
REX	
RFP	Request to Exit (Sensor)
ROFO	Request for Proposal Right of First Offer
ROFR	Right of First Offer Right of First Refusal
ROI	Return on Investment
RPA	Real Property Administrator (a BOMI designation)
RSF	Rentable Square Feet
RTU	Rooftop Unit
SD	Security Deposit
SDS	Safety Data Sheets
SEC	Securities and Exchange Commission
SEER	System Energy Efficiency Rating
SF	Square Footage
SIOR	Society of Industrial & Office Realtors
SLA	Service Level Agreement
SMA	Systems Maintenance Administrator (a BOMI designation)
SMT	Systems Maintenance Technician (a BOMI designation)
SNDA	Subordination Non-Disturbance Attornment



ACRONYM	MEANING
SOW	Scope of Work / Statement of Work
SWOT	Strengths, Weaknesses, Opportunities, Threats
TB	Trial Balance
TI	Tenant Improvement
TIC	Tenants in Common
TOBY	The Outstanding Building of the Year
TOV	Timed Override (HVAC)
TSC	Tenant Services Coordinator
TSR	Tenant Service Request
π	Tenant
UBIT	Unrelated Business Income Tax
UCD	University City District
UPS	Uninterruptible power supply
USF	Usable Square Feet
USGBC	U.S. Green Building Council
VAT	Vinyl Asbestos Tile (Flooring)
VCT	Vinyl Composite Tile (Flooring)
VOIP	Voice Over Internet Protocol
WO	Work order, may be either reactive or preventative maintenance
WOB	Women Owned Business
YOY	Year Over Year
YTD	Year to Date
	Common Life Science Terminology
	Autoclave
	Biosafety Level 1-4 (BSL)
	Biosafety Cabinet (BSC)
	CRISPR Gene Editing
	Clean Dry Air (CDA)
	Environmental Health & Safety (EH&S)
	Fume Hood
	Glass Washer
	Maximum Allowable Quantities (MAQs) for hazmat
	Vivarium
	Vacuum (VAC)
	High Efficiency Particulate Air(filter) (HEPA)
	Safety Data List (SDS) no longer MSDS