LCLS Room Data Sheet #	1.9-1042	Central Lab Office Complex - Overall	Revision 2

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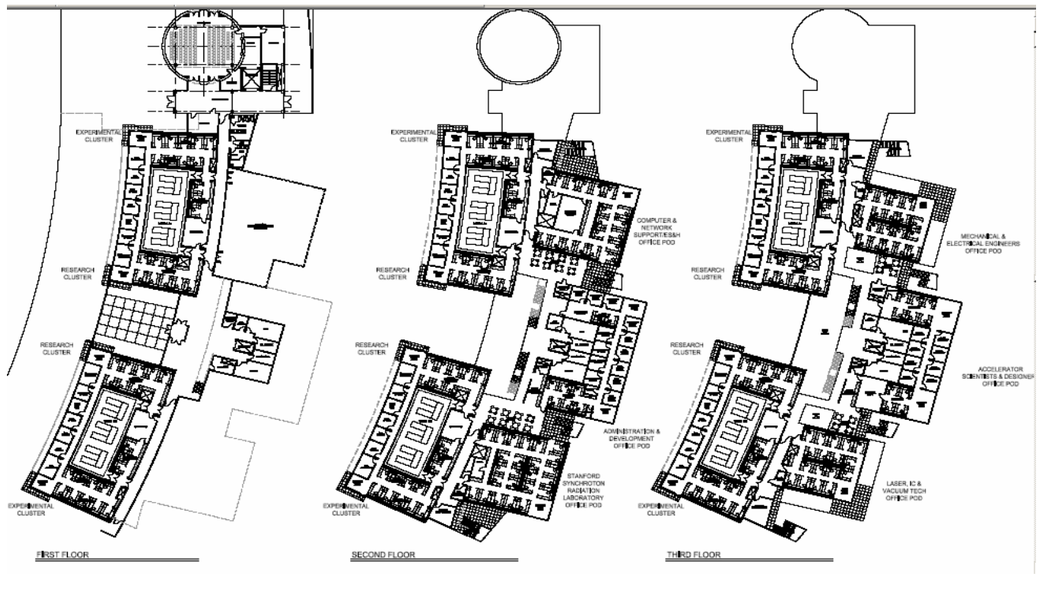
REVISION INFORMATION

Rev 2. Deleted mechanical humidification requirement, updated floor plans- general changes, updated Standards and Codes

ROOM DATA SHEETS

FACILITY COMPONENT	CENTRAL LABORATORY OFFICE COMPLEX (CLOC) OVERALL ROOM DATA SHEET (from original Title I deliverable)			
	Name of Building	CLOC		
	Organization or Department	SLAC, Stanford University		
	Net area	6390.0 sq. meters		68,801sf
	Critical dimensions	**H:**	varies	
		W:	varies	
		L:	varies	
	Hours of operation	Normal business hours		
	Users/Occupancy	Workers within the CLOC that are assigned private "hard-walled" offices. Occupancy Group "B"		
	Building orientation	CLOC building is set South of the location of the NEH below grade and East of existing Pep Ring Road.		
FUNCTIONAL OBJECTIVE	This office facility (68,8000 sf) will house ~ 284 LCLS researchers, engineers, technicians, administrative staff and visiting experimentalists. This is a 3 story facility entirely above grade facility. The service building for this complex will be housed in a 4,000 sf utility building constructed of steel columns with metal siding/roofing.			
PLANNING CONSIDERATIONS & CRITICAL FACTORS	Consideration shalll be given to the siting of this facility such that adequate adjacencies are considered with other groups throughout the lab. **Site Design and Planning** • Provide adequate landscape space between building entries and the street, for visual and pedestrian connectivity • Provide for pedestrian circulation that is separate from the parking lot drive aisles • Site buildings so as to fit within natural topography **Landscape** • Reinforce this axis throughout the entire project boundaries.. • Provide terraced parking that works with the natural grade. • Provide trees to allow for shading in parking lots, and to reduce heat island effect. • Majority of plantings should be native and drought-tolerant. Non-native plantings should be reserved as accents in special areas and should be of a palette that already exists at SLAC **Architecture** • Provide industrial character • Colors and materials should be the same as main SLAC campus (two shades of gray, sand, red). Sand and red colors can be • Windows and doors should be aluminum (in color) with clear Low-E glass. Color tinted glazing is not acceptable • Facades and fenestration should be designed to respond to their solar orientation, especially along west-facing facades • Consider balconies, setbacks, etc.to visually break up the continuous horizontality of the proposed facades			
FINISHES	Wall			
	Ceiling			
	Floor			
	Base			
	Doors			
	Fenestrations			
	Acoustical			
APPLICABLE STANDARDS	29 CFR Part 1910 Occupational Safety and Health Standards Dept of Labor, 29 CFR Part 1926 Safety and Health Regulations for Constructions Dept of Labor, Uniform Building Code (UBC) 1997 including appendixes, National Electric Code (NEC) 2002, Uniform Mechanical Code (UMC) 2003 including appendixes, Uniform Plumbing Code (UPC) 2003 including appendixes, Uniform Fire Code (UFC) 1997 including appendixes, California Code of Regulations Title 8 Industrial Safety, Title 19 Public Safety, NFPA 70 National Fire Codes, National electrical Safety Code ANSI C2, Occupational Safety and Health Act (OSHA), General Services Administration 41 CFR part 101-19, Environmental Protection Agency 40 CFR Parts 264 and 265, SLAC Environmental Safety & Health Manual, General Industrial Activities Storm Water Permit (SLAC Permit), NFPA 101 life Safety Code, Title 24-Energy Code, DOE standard 10 CFR Part 435, ASHRAE/IES Standards 90.1, NFPA Standard 13 and SLAC Fire Marshal requirements, LCLS Cabling Standard and SLAC LOTO			

VIEWS & SCHEMATICS (N. T. S.)	Figure No. 1- Plan Views



MECHANICAL REQUIREMENTS	**HVAC**	☒	Heating system	Temp: 70 degrees F± 3 degree F	☐	Mechanical humidification
		☒	Air conditioning	Temp: 74 degrees F± 3 degree F	☐	Direct exhaust system - for laser table experiment enclosures only.
		☐	Direct supply		☐	Positive pressure system
		☐	Indirect supply		☐	Negative pressure system
		☐	Smoke control system		☐	Standard registers
		☒	Temperature sensors connected to SLAC's site wide DDC system		☐	Requirement for gases
	Communications	☒	Telephone- 2 phone lines/location-		☐	PA speakers
		☒	Dataport- 2 jacks/location-		☐	PA station
		☐	Payphone		☐	CCTV camera
		☐	Fire alarm station		☐	CCTV monitor
		☐	Intercom			
	Plumbing/Fire Protection	☐	Hot water system		☒	Electric water cooler
		☐	Cold water system		☐	Drinking fountain
		☐	Tempered water		☒	Smoke detection system
		☐	Waste drain		☒	Wet sprinkler system
		☐	Floor drain		☐	Eye wash / Safety shower
		☐	Trench drain			
		Comments: **1)** electric water cooler shall be located in common space conveniently located on the floor level, one per floor 2) Provide Process Cooling Water in Laser labs-Refer to LCLS ESD for Water Cooling Specifications				

ELECTRICAL REQUIREMENTS	**Power supply**	☐	208V 1ph outlets	☐	Uninterrupted power supply	
		☒	110V 1ph outlets	☐	Special electric	Type:
		☐	Emergency power			
		Comments:				
	Lighting	☒	Light fixtures - 2 x 4 recessed florescent lighting.	☐	Remote lighting control	
		☐	Fixture type I: Down light	☒	Light switches	
		☐	Fixture type II: Bollard (exterior)	☒	Lighting level	FC: **typ. office**
		☒	Emergency lighting- 2 Pack or similar			
		Comments: 1- Utilize standard Illuminating Engineering Society (IES) guidelines				
RADIATION/SEISMIC/VIBRATIONS ISSUES	**Comments:** Refer to RDS for each area					
SPECIAL REQUIREMENTS FOR EQUIPMENT	Refer to RDS for each area					
ENVIRONMENTAL NEEDS						