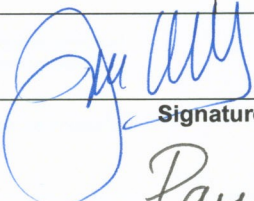




LCLS Room Data Sheet # 1.9-1014	Near Experimental Hall (NEH) - Open Work Area (Basement)	Revision 2
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REVISION INFORMATION

Rev 2, changed amps for outlets, clarifications for lighting and switching. Changed room temperature stability requirements

Updated Standards and Codes- Updated ceiling height and requirements for cable trays.

FACILITY COMPONENT	OPEN WORK AREA (NEH BASEMENT) - ROOM DATA SHEET															
	Name of Building	Open Work Area- NEH Sub Basement														
	Organization or Department	SLAC, Stanford University														
	Net area	100.3 sq. meters 1080 sf														
	Critical dimensions	<table border="1"> <tr> <td>H:</td> <td>6.1 m</td> <td>20'</td> </tr> <tr> <td>W:</td> <td>4.57 m</td> <td>15'-0"</td> </tr> <tr> <td>L:</td> <td>21.95 m</td> <td>72'-0"</td> </tr> </table>	H:	6.1 m	20'	W:	4.57 m	15'-0"	L:	21.95 m	72'-0"					
H:	6.1 m	20'														
W:	4.57 m	15'-0"														
L:	21.95 m	72'-0"														
	Hours of operation	Facility is open 24/7/365 for users														
	Users/Occupancy	Laboratory workers utilize this central area as a common work area. "B" occupancy group.														
	Building orientation	The Open Work Area is located directly adjacent and between th Laser Bay and the Offices on the NEH basement level.														
FUNCTIONAL OBJECTIVE	Provide a centrally common work area for Laboratory workers to perform planning and staging of experimental equipment															
PLANNING CONSIDERATIONS & CRITICAL FACTORS	Centrally located on the NEH basement. This area will accommodate up to 5 persons.															
FINISHES	<table border="1"> <tr> <td>Wall</td> <td>Painted reinforced concrete, framed gypsum board assembly</td> </tr> <tr> <td>Ceiling</td> <td>Reinforced concrete, painted surface. 12'-0"high.</td> </tr> <tr> <td>Floor</td> <td>Sealed concrete with epoxy coating</td> </tr> <tr> <td>Base</td> <td>Rubber base</td> </tr> <tr> <td>Doors</td> <td>Limited to perimeter and exterior access</td> </tr> <tr> <td>Fenestrations</td> <td>None</td> </tr> <tr> <td>Acoustical</td> <td>Typical laboratory decibel level required. NC=35</td> </tr> </table>	Wall	Painted reinforced concrete, framed gypsum board assembly	Ceiling	Reinforced concrete, painted surface. 12'-0"high.	Floor	Sealed concrete with epoxy coating	Base	Rubber base	Doors	Limited to perimeter and exterior access	Fenestrations	None	Acoustical	Typical laboratory decibel level required. NC=35	
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APPLICABLE STANDARDS	29 CFR Part 1910 Occupational Safety and Health Standards Dept of Labor, 29 CFR Part 1926 Safety and Health Regulations for Construction 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, American with Disabilities Act, 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, SLAC LOTO															
VIEWS & SCHEMATICS (N. T. S.)	NONE															

MECHANICAL REQUIREMENTS	HVAC	<input checked="" type="checkbox"/> Heating system	Temp:	<input type="checkbox"/>	Mechanical humidification	
		<input checked="" type="checkbox"/> Air conditioning	Temp: 72 degrees F +/- 2 degree F	<input type="checkbox"/>	Direct exhaust system - for laser table experiment enclosures only.	
		<input type="checkbox"/> Direct supply		<input type="checkbox"/>	Positive pressure system	
		<input type="checkbox"/> Indirect supply		<input type="checkbox"/>	Negative pressure system	
		<input type="checkbox"/> Smoke control system		<input type="checkbox"/>	Standard registers	
		<input checked="" type="checkbox"/> Temperature Control connected to DDC system		<input type="checkbox"/>	Requirement for gases	
		Comments: Control area has no cleanliness requirements				
	Communications	<input checked="" type="checkbox"/> Telephone- 2 phone lines/location-see diagram		<input type="checkbox"/>	PA speakers	
		<input checked="" type="checkbox"/> Dataport- 2 jacks/location-see diagram		<input type="checkbox"/>	PA station	
		<input type="checkbox"/> Payphone			CCTV camera	
		<input checked="" type="checkbox"/> Fire alarm station		<input type="checkbox"/>	CCTV monitor	
		<input type="checkbox"/> Intercom				
Comments: 1) Cable trays should be made from galvanized steel. Provide each cable tray with 1-4#0 bare copper wire for grounding.						
	Plumbing/Fire Protection	<input type="checkbox"/> Hot water system		<input type="checkbox"/>	Electric watercooler	
		<input type="checkbox"/> Cold water system		<input type="checkbox"/>	Drinking fountain	
		<input type="checkbox"/> Tempered water		<input checked="" type="checkbox"/>	Smoke detection system	
		<input type="checkbox"/> Waste drain		<input checked="" type="checkbox"/>	Standard sprinkler heads	
		<input type="checkbox"/> Floor drain		<input type="checkbox"/>	Eye wash / Safety shower	
		<input type="checkbox"/> Trench drain				
Comments:						
ELECTRICAL REQUIREMENTS	Power supply	<input type="checkbox"/> 208V 3ph outlets		<input type="checkbox"/>	Uninterrupted power supply	
		<input checked="" type="checkbox"/> 110V 1ph outlets		<input type="checkbox"/>	Special electric Type:	
		<input type="checkbox"/> Emergency power				
Comments: 1- Double duplex outlets (110V, 1 phase, 20 amps) shall be limited to convenience outlets along perimeter walls. 2 - Provide power poles (110V) at 10' spacing centrally located in the Work Area.						
	Lighting	<input checked="" type="checkbox"/> Light fixtures		<input type="checkbox"/>	Remote lighting control	
		<input type="checkbox"/> Fixture type I: Downlight		<input checked="" type="checkbox"/>	Light switches	
		<input type="checkbox"/> Fixture type II: Bollard (exterior)			Lighting level FC: 75	
		<input checked="" type="checkbox"/> Emergency lighting				
Comments: 1- All conduits are surface mounted.						
RADIATION/SEISMIC/VIBRATIONS ISSUES	Comments: 1- All equipment and systems are to be seismically braced and restrained per Code.					
SPECIAL REQUIREMENTS FOR EQUIPMENT	Comments:					
CHEMICALS / GASES	CHEMICALS			SPECIALTY GASES		
	#	Chemical Type	Quantity	#	Gas Type	Quantity