

LCLS Room Data Sheet #	1.9-106A	Building 751 - Overall- Office Renovation	Revision 0
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Javier A. Sevilla
Owner / Editor

Oct. 4-07

Signature

Date

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Conventional Facilities System Physicist

10/5/07

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Darren Marsh
Quality Assurance Manager

10/8/07

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Date

REVISION INFORMATION

Scope of Conceptual Design

ROOM DATA SHEET

FACILITY COMPONENT	BUILDING 751-CEH-OFFICE RENOVATION- OVERALL ROOM DATA SHEET																										
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FUNCTIONAL OBJECTIVE	This office facility (11,785 sf) will house ~ 63 LCLS researchers, engineers, technicians, administrative staff and visiting experimentalists. This is an existing metal building and the renovated space will accommodate up to 63 occupants. Renovation includes a large and two small conference rooms																										
PLANNING CONSIDERATIONS & CRITICAL FACTORS	<p>Consideration shall be given to the renovation of this facility such that adequate adjacencies are considered with other groups throughout the lab.</p> <p>Architecture</p> <ul style="list-style-type: none"> • 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 used as accents rather than pre-dominant color • Windows and doors should be aluminum (in color) with clear Low-E glass. Color tinted glazing is not acceptable 																										
FINISHES	<table border="1" style="width: 100%;"> <tr> <td style="width: 30%;">Wall</td> <td colspan="2">Painted</td> </tr> <tr> <td>Ceiling</td> <td colspan="2">Acoustical ceiling</td> </tr> <tr> <td>Floor</td> <td colspan="2">Carpet with rubber base</td> </tr> <tr> <td>Base</td> <td colspan="2">Yes</td> </tr> <tr> <td>Doors</td> <td colspan="2">Metal doors</td> </tr> <tr> <td>Fenestrations</td> <td colspan="2"></td> </tr> <tr> <td>Acoustical</td> <td colspan="2">NC 30-35 for standard offices and NC of 25 for conference rooms</td> </tr> </table>		Wall	Painted		Ceiling	Acoustical ceiling		Floor	Carpet with rubber base		Base	Yes		Doors	Metal doors		Fenestrations			Acoustical	NC 30-35 for standard offices and NC of 25 for conference rooms					
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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) 2005, Uniform Mechanical Code (UMC) 2003 including appendixes, Uniform Plumbing Code (UPC) 2003 including appendixes, Uniform Fire Code (UFC) 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																										

Figure No. 1- Overall Building Plan View

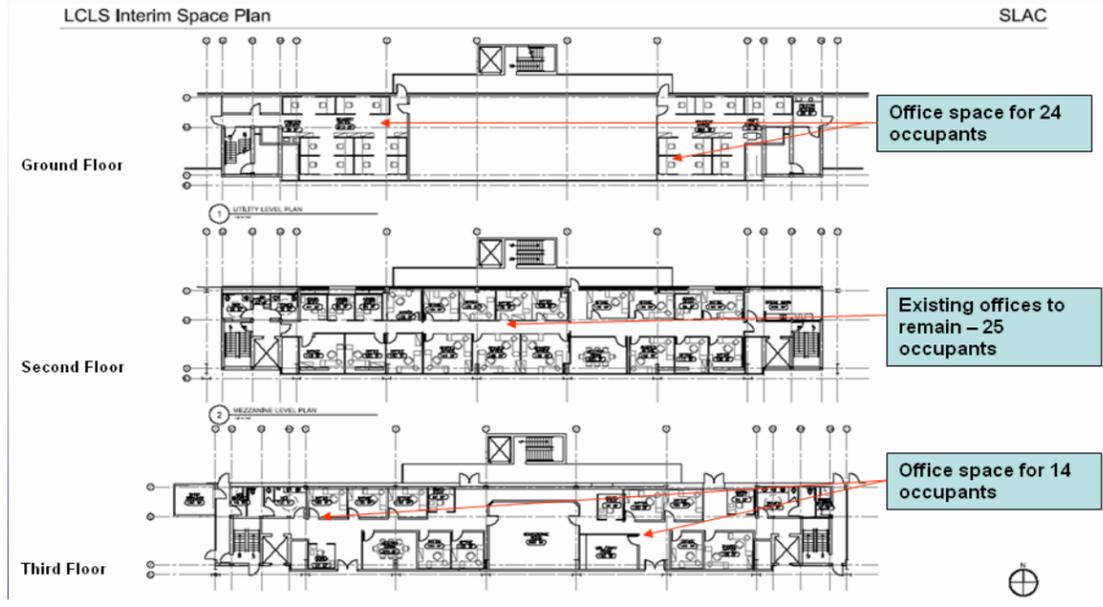


Figure No. 2 Enlarged Floor plans

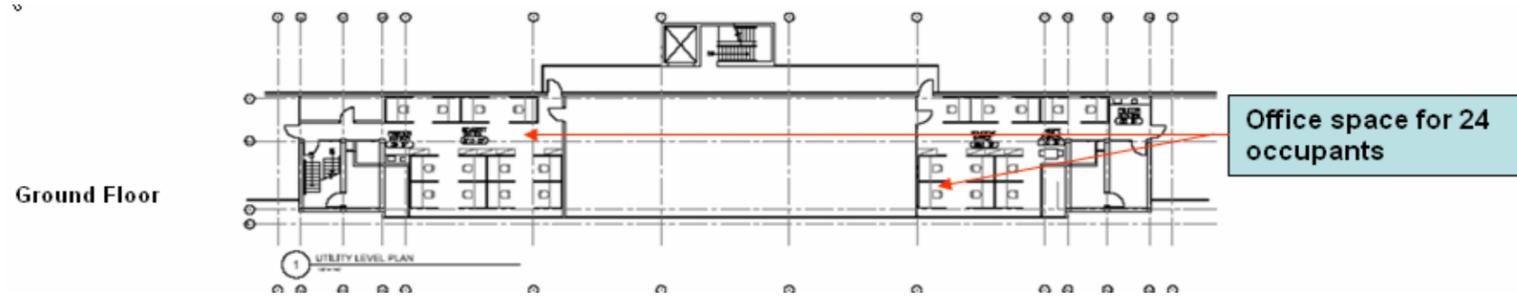
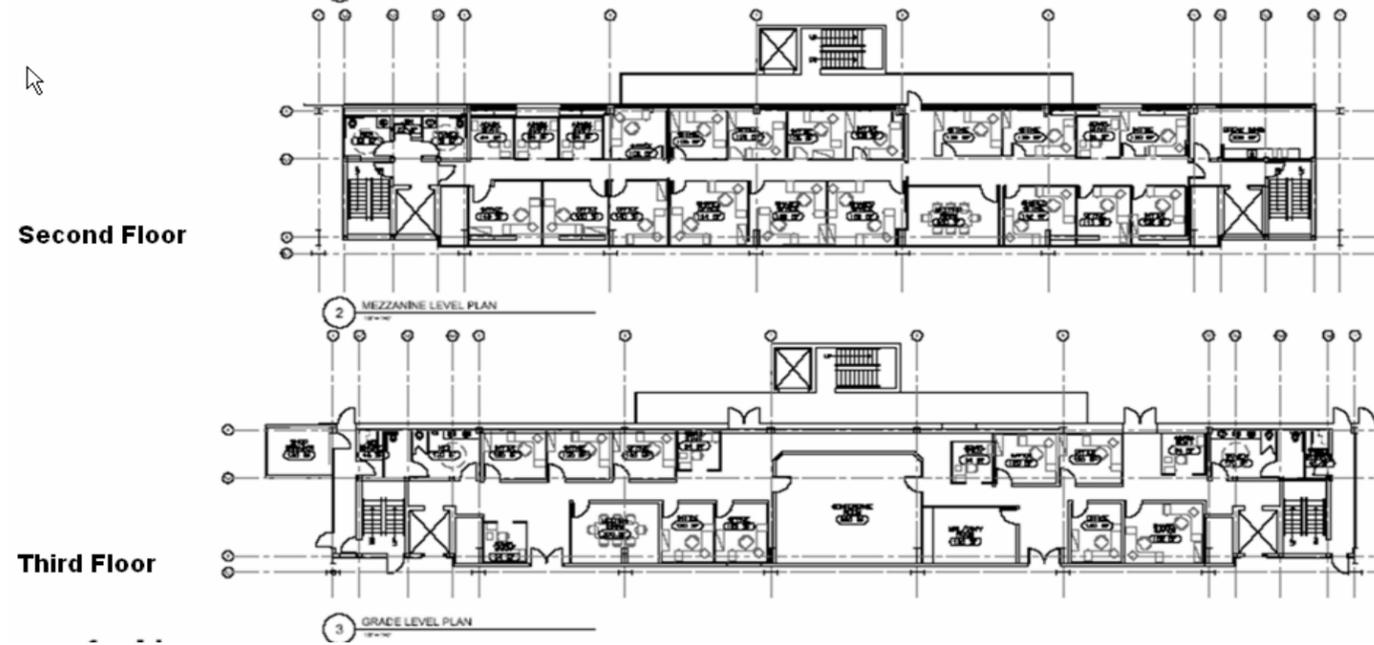


Figure No. 3- Enlarged Floor plans-Second and Third Floors



MECHANICAL REQUIREMENTS	HVAC	<input checked="" type="checkbox"/> Heating system	Temp: 70 degrees F ± 3 degree F	<input type="checkbox"/>	Mechanical humidification
		<input checked="" type="checkbox"/> Air conditioning	Temp: 74 degrees F ± 3 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 checked="" type="checkbox"/>	Standard registers for Acoustical ceiling applications
		<input checked="" type="checkbox"/> Temperature sensors connected to SLAC's site wide DDC system		<input type="checkbox"/>	Requirement for gases
	Communications	<input checked="" type="checkbox"/> Telephone- 2 phone lines/location-		<input type="checkbox"/>	PA speakers
		<input checked="" type="checkbox"/> Data port- 2 jacks/per office		<input type="checkbox"/>	PA station
		<input type="checkbox"/> Payphone		<input type="checkbox"/>	CCTV camera
		<input checked="" type="checkbox"/> Fire alarm station		<input type="checkbox"/>	CCTV monitor
		<input type="checkbox"/> Intercom			
	Plumbing/Fire Protection	<input type="checkbox"/> Hot water system		<input checked="" type="checkbox"/>	Electric water cooler
		<input checked="" type="checkbox"/> Cold water system		<input type="checkbox"/>	Drinking fountain
		<input type="checkbox"/> Tempered water		<input checked="" type="checkbox"/>	Smoke detection system-Fire Alarm
		<input checked="" type="checkbox"/> Waste drain		<input checked="" type="checkbox"/>	Wet sprinkler system
		<input checked="" type="checkbox"/> Floor drain		<input type="checkbox"/>	Eye wash / Safety shower
		<input type="checkbox"/> Trench drain			
		Comments: Electric water cooler shall be located in common space conveniently located on each floor level.			

ELECTRICAL REQUIREMENTS	Power supply	<input type="checkbox"/> 208V 1ph outlets	<input type="checkbox"/> Uninterrupted power supply
		<input checked="" type="checkbox"/> 120V 1ph outlets	<input type="checkbox"/> Special electric Type:
		<input type="checkbox"/> Emergency power	
		Comments: Standard night lights for office environment	
	Lighting	<input checked="" type="checkbox"/> Light fixtures - 2 x 4 recessed florescent lighting.	<input type="checkbox"/> Remote lighting control
		<input type="checkbox"/> Fixture type I: Down light	<input checked="" type="checkbox"/> Light switches
		<input type="checkbox"/> Fixture type II: Bollard (exterior)	<input checked="" type="checkbox"/> Lighting level FC: typ. office
		<input checked="" type="checkbox"/> Emergency lighting- 2 Pack or similar	
		Comments: 1- Utilize standard Illuminating Engineering Society (IES) guidelines for offices and conference rooms.	
RADIATION/SEISMIC/VIBRATIONS ISSUES	Comments:		
	None		
SPECIAL REQUIREMENTS FOR EQUIPMENT	None		
ENVIRONMENTAL NEEDS			