

FACILITY COMPONENT BTH WEST SERVICE BLDG# 105 - ROOM DATA SHEET Name of Building Organization or Department BTH Service Building # 105- Building is existing SLAC, Stanford University Net area 20.4 sq. meters Critical dimensions 3.66 m H: W: 3.66 m 5.57 m L: Hours of operation 24/7/365 locked, occupied only for equipment service and maintenance Users/Occupancy Building orientation Only during service and maintenance periods East/West To house rack mounted diagnostic equipment to run/monitor the BTH West. FUNCTIONAL OBJECTIVE Building is existing and is located on top of BTH West area. Re-use existing penetrations. PLANNING CONSIDERATIONS & CRITICAL FACTORS

ROOM DATA SHEETS

FINISHES	Roof	Existing Corrugated steel, insulated, painted surface (SLAC Home Spun brown exterior)					
	Ceiling	Existing Corrugated steel, insulated					
	Floor	Existing to remain					
	Base	None					
	Doors	Existing 3 ft by7ft metal door.					
Fenestrations		NA					
	Acoustical	NA					
APPLICABLE STANDARDS	29 CFR Part 1910 Occupational Safety Health Standard Dept of Labor and Part 1926 Safety and						
	Health Regulations for Construction Dept of Labor.						
	Uniform Building Code (UBC) 1997 including appendixes, National Electrical Code (NEC) 2002, 2003 Uniform Mechanical Code (UMC) including appendixes, 2003 Uniform Plumbing Code (UPC) 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 Health Act (OSHA), General Services Administration 41 CFR part 101-19,						
	Environmental Protection Agency 40 CFR Parts 264 and 265						
	SLAC Environmental safety and Health Manual, General Industrial Activities Storm Water Permit (SLAC Permit), NFPA 101						
	Life Safety Code, Title 24 Energy Code Standards, DOE Standard 10 CFR Part 435, ASHRAE/IES Standard 90.1,						
	Fire Marshal requirements, LCLS Cabling Standard and SLAC LOTO and LCLS Fire Hazard Analysis, Title II						

System & WBS Manager: Dave Schultz/ Jose Chan

180 sf

12' 12'

15'

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

EXTERIOR VIEW OF EXISTING BUILDING



EXTERIOR VIEW OF EXISTING BUILDING-LOOKING NORTH

	HVAC		Heating system	Temp:		Mechanical humidification			
MECHANICAL REQUIREMENTS	HVAC				H				
		<u> </u>	Air conditioning (existing)	Temp: 75 F	님	Direct exhaust system			
			Direct supply		片	Positive pressure system			
					븝	Negative pressure system			
			Smoke control system		Η	Standard registers			
			Existing Temperature sensors			Requirement for gases			
		uni	Service builidng has a room air c t. Maximum heat rejected load p gle rack is: 2 kW		Existing HVAC system to provide conditione the building.				
	Communications		Telephone- Existing			PA speakers			
		⊠	Dataport- Use existing			PA station			
			Payphone			CCTV camera			
		X	Fire alarm station- Existing			CCTV monitor			
			Intercom						
		a) b) c) l d)	mments: Verify existing smoke detectors a Existing cable trays are adequat Provide 1 #4/0 ground wire to all Single Racks are existing. Verify Provide cover for existing cable t	e to remain. existing and ne grounding wiri	ew c ng fo	or I&C racks.			
	Plumbing/Fire Protection		Hot water system			Electric watercooler			
			Cold water system			Drinking fountain Bottled			
		B	Tempered water		×	Smoke detection system -Exis	ling		
			Waste drain			Wet sprinkler heads	ung		
			Floor drain			Evo work			
		H				Eye wash			
			Comments: a) Verify existing smoke detectors are operational.						
ELECTRICAL REQUIREMENTS	Instrumentation and Controls	⊠	208 V outlets, 3 phase Uninterrupted power sup		Uninterrupted power supply				
		⊠	110V outlets -20 amps distribute	d along walls		Special electric	Туре:		
			Emergency power						
			Emergency power						
		a) par car T out b)	Comments: a) Building will house six (6) single racks for I& C. Power 208/120 volts, 3 phase. 1 panel for "clean" power. Panel board is existing and shall have a main breaker will capacity of 125 amps. The panel shall be independent of any power panel needed for HVAC equipmen outlets. b) All conduits and light fixtures are surface mounted. Verify they are working prop						
	Lighting	\boxtimes	Light fixtures- existing			Remote lighting control			
			Fixture type I: Downright		XX	Light switches-existing			
			Fixture type II: Bollard (exterio	r)	X	Lighting level	FC: 30		
			Emergency lighting-						
		Co	mments:						
ADIATION/SEISMIC/VIBRATIONS ISSUES	Comments: 1. Existing penetrations located outside the building.								
PECIAL REQUIREMENTS FOR EQUIPMENT	Comments: 1) Existing cable trays are adequate for I& C racks								