

draft

Attachment 3A - UC Green Building Guide

				Plant Account:																
				Project Name:		Music Building														
				Campus:																
Scope	LEED 2.1	LEED Campus Only	Labs21 EPC Only	Item	Prerequisite	UC Point(s)	UC Mandatory	UC Discretionary	Baseline Points	Additional Points	Initial Goals	End Schematics			Regent's DR Final	Comments				
												Yes	No	Maybe						
Sustainable Sites	Y			SS Prerequisite 1 - Erosion & Sedimentation Control	Y				X		1	1								controls are required in specifications
Sustainable Sites	Y			SS 1 - Site Selection		1	Y	1			1	1								Site is not in flood zone, not prime agricultural land, not wildlife habitat, not park land, no wetlands nearby
Sustainable Sites	Y			SS 2 - Development Density		1	Y	1			1	1								confirm development of at least 60,000 GSF/acre
Sustainable Sites	Y			SS 3 - Brownfield Redevelopment		1	Y	--			-		1							not a brownfield site
Sustainable Sites	Y			SS 4.1 - Alternative Transportation- Public Transportation Access		1	Y	1			1	1								Bus stops nearby
Sustainable Sites	Y			SS 4.2 - Alternative Transportation - Bicycle Storage & Changing Rooms		1	Y	--			1									Use Gilman Garage infrastructure? Use Greenroom Showers in Music?
Sustainable Sites	Y			SS 4.3 - Alternative Transportation - Alternative Fuel Vehicles		1	Y	--												Outlets in Gilman?
Sustainable Sites	Y			SS 4.4 - Alternative Transportation- Parking Capacity		1	Y	--			-									assign carpool stalls in Gilman?
Sustainable Sites	Y			SS 5.1 - Reduced Site Disturbance- Protect or Restore Open Space		1	Y	--			-		1							
Sustainable Sites	Y			SS 5.2 - Reduced Site Disturbance- Development Footprint		1	Y	--			-		1							
Sustainable Sites	Y			SS 6.1 - Stormwater Management- Rate and Quantity		1	Y	1			-									confirm with civil engineer
Sustainable Sites	Y			SS 6.2 - Stormwater Management- Treatment		1	Y	--			-		1							
Sustainable Sites	Y			SS 7.1 - Heat Island Effect - Non-Roof		1	Y	1			1									calculate shade from street trees and bamboo
Sustainable Sites	Y			SS 7.2 - Heat Islands Effect - Roof		1	Y	1			1	1								energy star compliant roof coating specified
Sustainable Sites	Y			SS 8.1 - Light Pollution Reduction - Exterior Lighting		1	Y	1			-									confirm property line can be campus not assumed site. Campus standard fixtures <u>not</u> compliant for horizontal control
Sustainable Sites		Y		(Campus AG) SS 8.2 - Light Pollution Reduction - Exterior Lighting Master Plan																
Sustainable Sites		Y		(Campus AG) SS 9 - Mixed Use Development																
Sustainable Sites		Y		(Campus AG) SS 10 - Natural Resource Salvage and Rescue, and Green Landscaping																
Sustainable Sites		Y		(Campus AG) SS 11 - Greenways and Wildlife Corridors																
Sustainable Sites			Y	Labs21 SS 12.1 - Safety and Risk Management - Air Effluent		1	Y	1			n/a									
Sustainable Sites			Y	Labs21 SS 12.2 - Safety & Risk Management - Water Effluent		1	Y	1			n/a									
STAINABLE SITES SUBTOTAL:									9		7	5	4	6	0					
Water Efficiency			Y	Labs21 WE Prerequisite 1 - Laboratory Equipment Water Use	Y						n/a									
Water Efficiency	Y			WE 1.1 - Water Efficient Landscaping- Reduce by 50%		1	Y	1			1	1								use high efficiency landscape irrigation
Water Efficiency	Y			WE 1.2 - Water Efficient Landscaping- No Potable Use or No Irrigation		1	Y	--			-		1							
Water Efficiency	Y			WE 2 - Innovative Wastewater Technologies		1	Y	--			-		1							
Water Efficiency	Y			WE 3.1 - Water Use Reduction - 20% Reduction		1	Y	1			1	1								low flow fixtures
Water Efficiency	Y			WE 3.2 - Water Use Reduction- 30% Reduction		1	Y	--			1									waterless urinals - confirm acceptability with FD&C
Water Efficiency		Y		Labs21 WE 4.1 - Process Water Efficiency		1	Y				n/a									
Water Efficiency		Y		Labs21 WE 4.1 - Process Water Efficiency		1	Y				n/a									
ATER EFFICIENCY SUBTOTAL:									2		3	2	2	1	0					

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Energy & Atmosphere	Y			EA Prerequisite 1 - Fundamental Building Systems Commissioning	Y				X			1				commissioning done by UCSD	
Energy & Atmosphere	Y			EA Prerequisite 2 - Minimum Energy Performance	Y				X			1				Mech. engineer confirmed that project will comply with ASHRAE 90.1	
Energy & Atmosphere	Y			EA Prerequisite 3 - CFC Reduction in HVAC&R Equipment	Y				X			1				No CFCs	
Energy & Atmosphere			Y	Labs21 EA Prerequisite 2 - Assess Minimum Ventilation Requirements	Y				X	n/a							
Energy & Atmosphere	Y			EA Credit 1 - Optimize Energy Performance		4	Y		4	1						20% may be mandated by current code	
Energy & Atmosphere				EA Credit 1 - Optimize Energy Performance		6-10	Y		--	2			2			more than 30% may be possible	
Energy & Atmosphere	Y			EA 2.1 - Renewable Energy- 5%		1	Y		--	-		1					
Energy & Atmosphere	Y			EA 2.2 - Renewable Energy - 10%		1	Y		--	-		1					
Energy & Atmosphere	Y			EA 2.3 - Renewable Energy- 20%		1	Y		--	-		1					
Energy & Atmosphere	Y			EA 3 - Additional Commissioning		1	Y		--	-		1				easy to do but costs	
Energy & Atmosphere	Y			EA 4 - Ozone Protection		1	Y		--	1	1					no HCFCs or halon proposed	
Energy & Atmosphere	Y			EA 5.1 - Measurement and Verification - Building Systems		1	Y		1		1	1				Mech. Engineer confirmed likelihood - final control system issue	
Energy & Atmosphere		Y		(Campus AG) EA 5.2 - Measurement and Verification – Central Monitoring and Control													
Energy & Atmosphere	Y			EA 6 - Green Power		1	Y					1					
Energy & Atmosphere		Y		(Campus AG) EA 7 - Atmospheric Emissions													
Energy & Atmosphere		Y		(Campus AG) EA 8 - CO2 Reduction													
Energy & Atmosphere		Y		(Campus AG) EA 9.1 - Combined Heat and Power – 60% Efficiency													
Energy & Atmosphere		Y		(Campus AG) EA 9.2 - Combined Heat and Power – 75% Efficiency													
Energy & Atmosphere			Y	Labs21 EA 10 - Energy Supply Efficiency		1	Y		1	n/a							
Energy & Atmosphere			Y	Labs21 EA 11 - Improve Laboratory Equipment Efficiency		1	Y		--	n/a							
Energy & Atmosphere			Y	Labs21 EA 12.1 - Right-size Laboratory Equipment Load		1	Y		--	n/a							
Energy & Atmosphere			Y	Labs21 EA 12.2 - Right-size Laboratory Equipment Load - Metering		1	Y		--	n/a							
Y & ATMOSPHERE SUBTOTAL:									6	8	6	5	2	0			
Materials & Resources	Y			MR Prerequisite 1 - Storage & Collection of Recyclables	Y			Y	X			1				confirm campus has recycle program	
Materials & Resources			Y	Labs21 MR Prerequisite 2 - Hazardous Material Handling	Y			Y	X	n/a							
Materials & Resources	Y			MR 1.1 - Building Reuse- Maintain 75% of Existing Walls, Floors and Roof		1	Y		--	-		1					
Materials & Resources	Y			MR 1.2 - Building Reuse-Maintain 100% of Existing Walls, Floors and Roof		1	Y		--	-		1					
Materials & Resources	Y			MR 1.3 - Building Reuse- Maintain 100% of Shell/Structure and 50% of Non-Shell/Non-Structure		1	Y		--	-		1					
Materials & Resources	Y			MR 2.1 - Construction Waste Management- Divert 50% From Landfill		1	Y		1		1			1		confirm campus construction recycling program, add spec language to achieve	
Materials & Resources	Y			MR 2.2 - Construction Waste Management- Divert 75% From Landfill		1	Y		--	1				1		confirm campus construction recycling program, add spec language to achieve	
Materials & Resources	Y			MR 3.1 - Resource Reuse: 5%		1	Y		--	-		1				none of the existing structures are appropriate for reused	
Materials & Resources	Y			MR 3.2 - Resource Reuse- 10%		1	Y		--	-		1				none of the existing structures are appropriate for reused	
Materials & Resources	Y			MR 4.1 - Recycled Content: Use 5% post-consumer or 10% postconsumer + post-industrial		1	Y		1		1	1				Struc steel contains recycled material, GWB too	

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Materials & Resources	Y			MR 4.2 - Recycled Content: Use 10% post-consumer or 20% post-consumer + post-industrial		1		Y	-		-	1	1	review products at end of DD to see if possible
Materials & Resources	Y			MR 5.1 - Regional Materials- 20% manufactured regionally		1		Y	1		1	1	1	concrete regionally manufactured
Materials & Resources	Y			MR 5.2 - Regional Materials- 50% extracted regionally		1		Y	-		-	1	1	review products at end of DD to see if possible
Materials & Resources	Y			MR 6 - Rapidly Renewable Materials		1		Y			-	1	1	
Materials & Resources	Y			MR 7 - Certified Wood		1		Y			-	1	1	Confirm if wood used for conc form work can be from certified forests
Materials & Resources		Y		(Campus AG) MR 8 - Site Recycling and Solid Waste Management Master Plan & Labs21 MR 8 - Chemical Resource Management										
LS & RESOURCES SUBTOTAL:									3	4	3	6	5	0

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Indoor Env'tl Quality	Y			IEQ Prerequisite 1 - Minimum IAQ Performance	Y				X			1		ASHRAE 62 compliance	
Indoor Env'tl Quality	Y			IEQ Prerequisite 2 - Environmental Tobacco Smoke (ETS) Control	Y				X			1		nonsmoking building	
Indoor Env'tl Quality			Y	Labs21 IEQ Prerequisite 3 - Laboratory Ventilation	Y				X	n/a					
Indoor Env'tl Quality			Y	Labs21 IEQ Prerequisite 4 - Exterior Door Notification System	Y				-	n/a					
Indoor Env'tl Quality	Y			IEQ 1 - Carbon Dioxide (CO2) Monitoring		1	Y		1	1	1			confirmed with Mechanical engineer	
Indoor Env'tl Quality	Y			IEQ 2 - Ventilation Effectiveness		1	Y		-	1	1			requires specific air change capability	
Indoor Env'tl Quality	Y			IEQ 3.1 - Construction IAQ Management Plan- During Construction		1	Y		1	1		1		protect HVAC system during construction	
Indoor Env'tl Quality	Y			IEQ 3.2 - Construction IAQ Management Plan- After Construction		1	Y		1	1		1		requires building 'flushing' after completion	
Indoor Env'tl Quality	Y			IEQ 4.1 - Low-Emitting Materials- Adhesives & Sealants		1	Y		-	1	1			Specifications will note requirements	
Indoor Env'tl Quality	Y			IEQ 4.2 - Low-Emitting Materials- Paints and Coatings		1	Y		-	1	1			Specifications will note requirements	
Indoor Env'tl Quality	Y			IEQ 4.3 - Low-Emitting Materials- Carpet		1	Y		-	1	1			Specifications will note requirements	
Indoor Env'tl Quality	Y			IEQ 4.4 - Low-Emitting Materials- Composite Wood		1	Y		-	1	1			Specifications will note requirements	
Indoor Env'tl Quality	Y			IEQ 5 - Indoor Chemical & Pollutant Source Control		1	Y		-	1	1			walk-off mats will be provided, copy rooms	
Indoor Env'tl Quality	Y			IEQ 6.1 - Controllability of Systems- Perimeter Spaces		1	Y		-	-		1		program limits ability to meet the min requirements of this point	
Indoor Env'tl Quality	Y			IEQ 6.2 - Controllability of Systems- Non-Perimeter Spaces		1	Y		-	-		1		program limits ability to meet the min requirements of this point	
Indoor Env'tl Quality	Y			IEQ 7.1 - Thermal Comfort- Compliance with ASHRAE 55-1992		1	Y		1	1		1		confirm compliance with ASHRAE 55, confirm HVAC controls capabilities	
Indoor Env'tl Quality	Y			IEQ 7.2 - Thermal Comfort- Permanent Monitoring System		1	Y		-	1		1		confirm HVAC controls capabilities	
Indoor Env'tl Quality	Y			IEQ 8.1 - Daylight and Views- Daylight 75% of Spaces		1	Y		-	-		1		program limits ability to meet the min requirements of this point	
Indoor Env'tl Quality	Y			IEQ 8.2 - Daylight and Views- Views for 90% of Spaces		1	Y		-	-		1		program limits ability to meet the min requirements of this point	
Indoor Env'tl Quality		Y		(Campus AG) IEQ 9 - Lighting Quality											
Indoor Env'tl Quality		Y		(Campus AG) IEQ 10 - Acoustic Quality											
Indoor Env'tl Quality			Y	Labs21 IEQ 11 - Indoor Environmental Safety		1	Y		1	n/a					
MENTAL QUALITY SUBTOTAL:									5	11	9	4	0		
Innovation in Design	Y	Y	Y	ID 1 - Innovation in Design - (proposed) Alternative Transportation		1	Y		1			1		TBD	
Innovation in Design	Y	Y	Y	ID 2 - LEED Accredited Professional		1	Y		1	1	1			several LMN team members are LEED AP	
INNOVATION IN DESIGN SUBTOTAL:									2	1	1	0	0		
PROJECT TOTAL:									27	34	26	21	14	0	

Signature(s) TBD

Legend

- 1) Prerequisite: If a point is a prerequisite in either LEED 2.1 or Labs21 EPC, it is marked in the Prerequisite column.
- 2) UC Points indicates whether a point is a UC point
- 3) UC Mandatory indicates whether a point is mandatory in the UC Green Building Guide
- 4) UC Discretionary indicates whether a point is discretionary in the UC Green Building Guide
- 5) Baseline Points indicates whether a point is incorporated into a Campus Baseline.
- 6) Additional Points indicates whether a point is claimed as a project-specific point in addition to the points included in the Campus Baseline.
- 7) Three columns are given to aid tracking inclusion of points through the facility design process. These are 'Initial Goals', 'End Schematics' and 'Regents DR Final'.
- 8) Points proposed in the DRAFT LEEDTM for Campus Application are shown, but cells under the categories described above are grayed out. As soon as the US Green Building Council approves the LEEDTM for Campus Application Guide, these points (or similar) will be incorporated into the UC Green Building Guide.
- 9) The equivalent to 'LEEDTM Certified' equals 26 earned points and all applicable prerequisites. Equivalencies to other LEED rating levels are as may be determined

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by the US Green Building Council from time to time.