

RELI RESILIENCY ACTION LIST (FULL) For Communities, Buildings, Homes + Infrastructure

Pilot V1.1a

	·	•	Approved as part of the RELi resiliency consensus underwriting standards, December 1, 2014. C3 Living Design . Capital Markets Partnership . AREA Research . University of Minnesota Arch8561			d Interpretation y 2015 Aug 2014
			RELi ACTION LIST C3LivingDesign.org / RELi			
STRUCTURES	COMMUNITY	NUMBER	STRUCTURE Applies to Buildings, Homes and Artifiacts COMMUNITY Applies to Organizations, Neighborhoods, Districts, Infrastructure, Urban + Campus Projects POINTS Points have not be allocated and will be established as part of the RELi Pilot Phase TANGIBLE ECONOMIC VALUE If 'Y' (yes) the line-item is recognized as tangible in the RELi Finance Underwriting Standard REFERENCE The RELi Credit Catalog is inclusive + comprehensive drawing from multiple sources POLY-REQs + POLY-CREDITS Contain sub-requisites + credits.	POINTS	TANGIBLE ECONIMIC VALUE	REFERENCE
			PANORAMIC APPROACH			
		РА	PANORAMIC APPROACH TO PLANNING, DESIGN, MAINTENANCE + OPERATIONS			
S	С	Req 1	Study: Short-Term Hazard Preparedness + Mitigation	Required	Υ	RELi
S	С	Req 2	Integrative Process, Development + Community Stakeholder Involvement	Required	Υ	IP LEED Envision
S	С	Poly-Req 3	Commissioning + Long-Term Monitoring / Maintenance	Required	Υ	LEED Envision
S	С	Poly-Credit 1	Business + Community Case Analysis, Post-Development Evaluation and Reporting	ТВО		Varies
S	С	Credit 2	Establish a Sustainability + Resiliency Management System	ТВО		Envision
S	С	Credit 3	Address Conflicting Regulations + Policies	TBD		Envision
			Credits 4-7 below expand the Integrative Process required by requisite 2 above.			
S	С	Poly-Credit 4	Study + Design for By-Product + Underutilization Synergies	TBD to TBD		Adapted Envision
S	С	Poly-Credit 5	Study + Design for Improved Project Element + Infrastructure Integration	TBD to TBD		Adapted Envision
S	С	Poly-Credit 6	Study + Design for Long-Term Adaptability, Diversity + Redundancy	TBD		RELi
S	С	Poly-Credit 7	Study + Living Design for Advanced Resiliency using a diversity of ecology based perspectives	TBD		RELi
S	С	Credit 8	Third Party Leadership + Next Generation Certifications and Programs	TBD		RELi
			RISK ADAPTATION + MITIGATION FOR ACUTE EVENTS			
		НР	HAZARD PREPAREDNESS			
S	С	Req 1				
S	С		Fundamental Emergency Planning + Preparedness for Common Hazardous Events	Required	Υ	RELi
S		Req 2		Required Required		RELI RELI
	С	Req 2 Poly-Credit 1		·	Υ	
S	C C	Poly-Credit 1	Fundamental Access To: First Aid, Emergency Supplies, Water, Food, Communications	Required	Υ	RELi
S		Poly-Credit 1	Fundamental Access To: First Aid, Emergency Supplies, Water, Food, Communications Enhanced Emergency Planning for Common Hazards + Extreme Events	Required TBD	Υ	RELI RELI
S	С	Poly-Credit 1 Credit 1.1	Fundamental Access To: First Aid, Emergency Supplies, Water, Food, Communications Enhanced Emergency Planning for Common Hazards + Extreme Events Enhanced Emergency Planning for Common Hazards + Extreme Events.	Required TBD TBD	Υ	RELI RELI RELI
	СС	Poly-Credit 1 Credit 1.1 Credit 1.1 Credit 2	Fundamental Access To: First Aid, Emergency Supplies, Water, Food, Communications Enhanced Emergency Planning for Common Hazards + Extreme Events Enhanced Emergency Planning for Common Hazards + Extreme Events. Project organization actively participates in or starts a United We Serve Team	Required TBD TBD TBD	Y Y	RELI RELI RELI RELI
S	C C	Poly-Credit 1 Credit 1.1 Credit 1.1 Credit 2	Fundamental Access To: First Aid, Emergency Supplies, Water, Food, Communications Enhanced Emergency Planning for Common Hazards + Extreme Events Enhanced Emergency Planning for Common Hazards + Extreme Events. Project organization actively participates in or starts a United We Serve Team Enhanced Access: Emergency Care + Supplies, Water, Food, Communications Additional Emergency Provisions For the Community + for Longer Timeframes	Required TBD TBD TBD TBD	Y Y	RELI RELI RELI RELI
S S	C C C	Poly-Credit 1 Credit 1.1 Credit 1.1 Credit 2 Poly-Credit 3 Credit 3.1	Fundamental Access To: First Aid, Emergency Supplies, Water, Food, Communications Enhanced Emergency Planning for Common Hazards + Extreme Events Enhanced Emergency Planning for Common Hazards + Extreme Events. Project organization actively participates in or starts a United We Serve Team Enhanced Access: Emergency Care + Supplies, Water, Food, Communications Additional Emergency Provisions For the Community + for Longer Timeframes	Required TBD TBD TBD TBD TBD	Y Y	RELI RELI RELI RELI RELI RELI
S S	C C C C	Poly-Credit 1 Credit 1.1 Credit 1.1 Credit 2 Poly-Credit 3 Credit 3.1	Fundamental Access To: First Aid, Emergency Supplies, Water, Food, Communications Enhanced Emergency Planning for Common Hazards + Extreme Events Enhanced Emergency Planning for Common Hazards + Extreme Events. Project organization actively participates in or starts a United We Serve Team Enhanced Access: Emergency Care + Supplies, Water, Food, Communications Additional Emergency Provisions For the Community + for Longer Timeframes 4 Days of additional Provisions provided for the Community 4 Days of additional Provisions and Shelter provided for the Community	Required TBD TBD TBD TBD TBD TBD TBD	Y Y	RELI RELI RELI RELI RELI RELI RELI
S S S	C C C C C	Poly-Credit 1 Credit 1.1 Credit 1.1 Credit 2 Poly-Credit 3 Credit 3.1 Credit 3.2 Credit 3.3	Fundamental Access To: First Aid, Emergency Supplies, Water, Food, Communications Enhanced Emergency Planning for Common Hazards + Extreme Events Enhanced Emergency Planning for Common Hazards + Extreme Events. Project organization actively participates in or starts a United We Serve Team Enhanced Access: Emergency Care + Supplies, Water, Food, Communications Additional Emergency Provisions For the Community + for Longer Timeframes 4 Days of additional Provisions provided for the Community 4 Days of additional Provisions and Shelter provided for the Community	Required TBD TBD TBD TBD TBD TBD TBD TBD	Y Y	RELI RELI RELI RELI RELI RELI RELI RELI
S S S	C C C C C	Poly-Credit 1 Credit 1.1 Credit 1.1 Credit 2 Poly-Credit 3 Credit 3.1 Credit 3.2 Credit 3.3	Fundamental Access To: First Aid, Emergency Supplies, Water, Food, Communications Enhanced Emergency Planning for Common Hazards + Extreme Events Enhanced Emergency Planning for Common Hazards + Extreme Events. Project organization actively participates in or starts a United We Serve Team Enhanced Access: Emergency Care + Supplies, Water, Food, Communications Additional Emergency Provisions For the Community + for Longer Timeframes 4 Days of additional Provisions provided for the Community 4 Days of additional Provisions and Shelter provided for the Community 10 Days of additional Provisions and Shelter provided for the Community	Required TBD	Y Y	RELI RELI RELI RELI RELI RELI RELI RELI
S S S S	C C C C C C	Poly-Credit 1 Credit 1.1 Credit 2 Poly-Credit 3 Credit 3.1 Credit 3.2 Credit 3.3 Credit 3.4	Fundamental Access To: First Aid, Emergency Supplies, Water, Food, Communications Enhanced Emergency Planning for Common Hazards + Extreme Events Enhanced Emergency Planning for Common Hazards + Extreme Events. Project organization actively participates in or starts a United We Serve Team Enhanced Access: Emergency Care + Supplies, Water, Food, Communications Additional Emergency Provisions For the Community + for Longer Timeframes 4 Days of additional Provisions provided for the Community 4 Days of additional Provisions and Shelter provided for the Community 10 Days of additional Provisions and Shelter provided for the Community	Required TBD	Y Y	RELI RELI RELI RELI RELI RELI RELI RELI
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\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	C C C C C C C	Poly-Credit 1 Credit 1.1 Credit 2 Poly-Credit 3 Credit 3.1 Credit 3.2 Credit 3.3 Credit 3.4 Credit 3.5 Credit 4	Fundamental Access To: First Aid, Emergency Supplies, Water, Food, Communications Enhanced Emergency Planning for Common Hazards + Extreme Events Enhanced Emergency Planning for Common Hazards + Extreme Events. Project organization actively participates in or starts a United We Serve Team Enhanced Access: Emergency Care + Supplies, Water, Food, Communications Additional Emergency Provisions For the Community + for Longer Timeframes 4 Days of additional Provisions provided for the Community 10 Days of additional Provisions and Shelter provided for the Community 10 Day of additional Provisions and Shelter provided for the Community 10 Day of additional Provisions provided for the Facility(s) Occupants Community Education: Authentic Dialogues on ever-increasing Weather, Safety + Resiliency Risks HAZARD ADAPTATION + MITIGATION	Required TBD	Y Y Y	RELI RELI RELI RELI RELI RELI RELI RELI
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	C C C C C C C	Poly-Credit 1 Credit 1.1 Credit 1.1 Credit 2 Poly-Credit 3 Credit 3.1 Credit 3.2 Credit 3.3 Credit 3.4 Credit 3.5 Credit 4 HA	Fundamental Access To: First Aid, Emergency Supplies, Water, Food, Communications Enhanced Emergency Planning for Common Hazards + Extreme Events Enhanced Emergency Planning for Common Hazards + Extreme Events. Project organization actively participates in or starts a United We Serve Team Enhanced Access: Emergency Care + Supplies, Water, Food, Communications Additional Emergency Provisions For the Community + for Longer Timeframes 4 Days of additional Provisions provided for the Community 10 Days of additional Provisions and Shelter provided for the Community 10 Day of additional Provisions and Shelter provided for the Community 10 Day of additional Provisions provided for the Facility(s) Occupants Community Education: Authentic Dialogues on ever-increasing Weather, Safety + Resiliency Risks HAZARD ADAPTATION + MITIGATION	Required TBD	Y Y Y Y	RELI RELI RELI RELI RELI RELI RELI RELI
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			PEL: ACTION LIST COLUMN Position and / PEL:			
			RELi ACTION LIST C3LivingDesign.org / RELi			
S	С	Poly-Credit 2	Adaptive Design for Extreme Rain, Sea Rise, Storm Surge + Extreme Weather, Events + Hazards	TBD	Υ	RELi
S	С	Credit 2.1	Adaptive Design for Resilient Management of Extreme Rain Events	TBD		RELi
S	С	Credit 2.2	Adaptive Design for Sea Rise, Storm Surge	TBD		RELi
S	С	Poly-Credit 3	Advanced Emergency Operations: Back-up Power, Operations, Thermal Safety + Operating Water	TBD	Υ	RELi
S	С	Credit 3.1		TBD		RELi
S	С	Credit 3.2	Advanced Emergency Operations: Thermal Safety During Emergencies	TBD		RELi
S	С	Credit 3.3	Advanced Emergency Operations: On-Site Water Storage for Operations	TBD		RELi
S	С	Credit 3.4	Thermal Safety: Moderate to Large Cooling Center	TBD		RELi
S	С	Credit 3.5	Thermal Safety: Advanced Cooling Center	TBD		RELi
S	С	Poly-Credit 4	Passive Thermal Safety, Thermal Comfort + Lighting Design Strategies	TBD	Υ	2030 Palette
S	С	Credit 4.1	Landscape based Passive Cooling	TBD		2030 Palette
S	С	Credit 4.2	Passive Lighting	TBD		2030 Palette
S	С	Credit 4.3	Passive Heating	TBD		2030 Palette
S	С	Credit 4.4	Passive Cooling	TBD		2030 Palette
S	С	Poly-Credit 5	Transit + Transportation System Protection + Continuous Operations	TBD	Υ	RELi
S	С	Credit 5.1	Protect below ground system vents and entrances from flooding	TBD		RELi
S	С	Credit 5.2	Plan systems for 500 Year Floods	TBD		RELi
S	С	Credit 5.3	Plan Systems for Extreme Rain Events	TBD		RELi
<u> </u>	С	Credit 5.4	Provide Distributed Generation Power Sources	TBD		RELi
<u> </u>	С	Poly-Credit 6	Provide Environmental Protection + Remediation for Parks + Preserves	TBD		RELi
S	С	Credit 6.1	Option 1: Develop action plans + stow needed supplies on-site for flood protection	TBD		RELi
S	С	Select One	Option 2: Protect, restore + develop flood protection (including natural systems)	TBD		RELi
S	С	Credit 6.2	Provide Buffer Zones protecting from development + supporting bio-diversity and biophilia	TBD		RELi
S	С	Credit 6.3	Provide wildlife corridors between parks + preserves to support bio-diversity and biophilia	TBD		RELi
			COMPREHENSIVE ADAPTATION + MITIGATION FOR A RESILIENT PRESENT + FUTURE			
		CV				
_	6		COMMUNITY COHESION, SOCIAL + ECONOMIC VITALITY	Page in d		En delen
S	С	Poly-Req 1		Required		Envision
	С	Select One	Option 1: Broad community alignment (Envision QL1.1 Superior Level)	Required		Envision
S						Envision
			Option 3: Community Renaissance (Envision QL1.1 Restorative Level)			Envision
S	С	Poly-Credit 1	Incorporate important community views and aspects of local landscape	TBD		Envision
		Credit 1.1	Understanding and balance - (Envision QL3.2 Improved Level / required for this credit)			Envision
		Credit 1.2	Alignment with community values- (Envision QL3.2 Enhanced Level / required for this credit)			Envision
S			Option 1: Community preservation and enhancement - (Envision QL3.2 Superior Level)	TBD		Envision
	С	Credit 1.3 Select One	Option 2: Community connections and collaboration - (Envision QL3.2 Conserving Level)	TBD		Envision
		3	Option 3: Restoration of community and character - (Envision QL3.2 Restorative Level)	TBD		Envision



S

Poly-Credit 8 Stimulate Sustainable Growth and Development

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Envision

TBD

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S	С	Poly-Credit 2	Community Connectivity: Walkability, Public Transit, Non-motorized Transit	TBD	Y	LEED V4	
S		Credit 2.1	Surrounding Density + Diverse Uses (Option 1. Surrounding Density)	TBD		LEED NC V4	
S		Credit 2.2	Access to Quality Transit	TBD		LEED NC V4	
S		Credit 2.3	Bicycle Facilities	TBD		LEED NC V4	
S		Credit 2.4	Reduced Parking Footprint	TBD		LEED NC V4	
	С	Credit 2.5	Preferred Location	TBD		LEED NC V4	
	С	Credit 2.6	Access to Quality Transit	TBD		LEED NC V4	
	С	Credit 2.7	Bicycle Facilities	TBD		LEED NC V4	
	С	Credit 2.8	Walkable Streets	TBD		LEED ND V4	
	С	Credit 2.9	Compact Development	TBD		LEED ND V4	
	С	Credit 2.10	Connected and Open Community: Surrounding Connectivity (Case 1.)	TBD		LEED ND V4	
	С	Credit 2.11	Connected and Open Community: Internal Connectivity (Case 2.)	TBD		LEED ND V4	
S	С	Poly-Credit 3	Community Connectivity: Mixed-Use Commercial, Housing + Public / Community Space	TBD	Υ	LEED RELi	
S	С	Credit 3.1	Surrounding Density + Diverse Uses (LEED NC, Option 2. Diverse Uses)	TBD		LEED V4	
S	С	Credit 3.2	Surrounding Density + Diverse Uses (RELi Resilient Use Categories)	TBD		RELi	
S		Credit 3.3	Provide Community Access to Useful Space	TBD		RELi	
S		Credit 3.4	Open Space	TBD		LEED V4	
S	С	Credit 3.5	Joint Use of Facilities	TBD		LEED School	
S	С	Credit 3.6	Housing and Jobs Proximity	TBD		LEED ND V4	
S	С	Credit 3.7	Mixed-Use Neighborhoods	TBD		LEED ND V4	
		Credit 3.8	Option 1: Access to Civic and Public Space	TBD		LEED ND V4	
	С	Select One	Option 2: The 2030 Palette - Parks Swatch	TBD		2030 Paletto	
S	С	Credit 3.9	Access to Recreation Facilities	TBD		LEED ND v4	
S	С	Credit 3.10	Access to Public Schools + Public Libraries	TBD		RELi	
S	С	Poly-Credit 4	Expand Citizen Participation: Public Amenities, Councils, Organizations, Communication	TBD		RELi	
S	С	Credit 4.1	Public Amenities: Manage + Operate a Community Space + Resource	TBD		RELi	
S	С	Credit 4.2	Actively Participate in Local Disaster Recovery Programs	TBD		RELi	
S	С	Credit 4.3	Actively Participate in a Local, Regional or National Groups + Organizations	TBD		RELi	
S	С	Credit 4.4	Organize and Develop a Community Communication Tool	TBD		RELi	
S	С	Poly-Credit 5	Resilient Organizations: Cooperative + B-Corporation(s), Non-Profits + Social Equity Measures	TBD		RELi	
S	С	Credit 5.1	Develop a Resilient Organization: Producer / Consumer / Worker Cooperative, B-Corp., Non-Profit	TBD		RELi	
S	С	Credit 5.2	Human PHD: Social Equity Within the Community	TBD		LEED Pilot	
S	С	Credit 5.3	Human PHD: Social Equity Within the Supply Chain	TBD		LEED Pilot	
S	С	Credit 5.4	Human PHD: Social Equity Within the Project Team	TBD		LEED Pilot	
S	С	Poly-Credit 6	Develop or Expand Local Skills, Capabilities + Long-Term Employment + Mix	TBD		Envision	
			Option 1: Hire Locally - (Envision QL1.3 Enhance Level)	TBD		Envision	
			Option 2: Specific Skills Outreach - (Envision QL1.3 Superior Level)	TBD		Envision	
S	С	Select One	Option 3: Local Capacity Development - (Envision QL1.3 Conserving Level)	TBD		Envision	
			Option 4: Long Term Competitiveness - (Envision QL1.3 Restorative Level)	TBD		Envision	
S	С	Poly-Credit 7	Use Regionally Sourced + Manufactured Materials and Products	TBD		LEED Envis	



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		РН	PRODUCTIVITY, HEALTH + DIVERSITY			
S	С	Poly-Req 1	Minimum IAQ + Views to the Exterior	Required	Υ	LEED RELI
S	С	Poly-Req 2	Minimum Protection for Prime Habitat + Floodplain Functions	Required	Υ	LEED Envis
S	С	Poly-Credit 1	Human PHD: Expanded IAQ, Daylight + Views, Fresh Air	TBD	Υ	LEED NC V4
S	С	Poly-Credit 2	Human PHD: Active Design for Buildings, Communities and Urban Environments	TBD		Active Design
S	С	Credit 3	Human PHD: Provide for Social Equity: Interdisciplinary / Intercultural Opportunities	TBD		RELi Stars
S	С	Poly-Credit 4	Human + Eco PHD: Reduce Pesticides, Prevent Surface + Groundwater Contamination	TBD	Υ	Envision
S	С	Poly-Credit 5	Ecological PHD: Protect Wetlands + Avoid Slopes and Adverse Geology	TBD	Y	Envision
S	С	Poly-Credit 6	Ecological PHD: Biodiversity, Habitat + Soil	TBD		LEED Envis
		EW	ENERGY, WATER + FOOD			
S	С	Poly-Req 1	Minimum Water Efficiency + Resilient Water and Landscapes	Required	Υ	LEED
S	С	Poly-Req 2	Minimum Energy Efficiency + Atmospheric Impacts	Required	Υ	LEED
S	С	Poly-Credit 1	Plan For Rainwater Harvesting , Resilient Landscapes + Food Production	TBD	Υ	RELi
S	С	Poly-Credit 2	Plan the Site and Orientation For Sun + Wind Harvesting, Natural Cooling	TBD	Υ	Multiple
S	С	Poly-Credit 3	Water Use Reduction, Near Zero / High Efficiency Water Flows and Resilient Landscapes	TBD	Y	LEED RELi
S	С	Poly-Credit 4	Energy Optimization, Near Zero / Carbon Neutral, Net Zero, Net Positive Energy Flows	TBD	Υ	Multiple
S	С	Poly-Credit 5	Edible Landscaping, Urban Agriculture + Resilient Food Production	TBD	Y	RELi
S	С	Poly-Credit 6	Reduced Site Environmental Impacts: Lighting, Heat-Island, Airborne Toxins	TBD	Υ	LEED Envis
		MA	MATERIALS + ARTIFACTS			
S	С	Poly-Req 1	Minimum Material Effectiveness + Life Cycle Planning	Required		Multiple
S	С	Credit 1	Safer, Non-Toxic Materials (SMaRT or equivalent Certified)	TBD	Y	RELi
S	С	Credit 2	Material + Artifact Effectiveness: Full Life Cycle Design for durability, adaptability, flexibility	TBD	Y	Adapted Autodesk
S	С	Credit 3	Material + Artifact Effectiveness: Design for Disassembly, Reuse, Recycling + Composting	TBD	Y	Adapted AutoDesk
S	С	Poly-Credit 4	Material Effectiveness: Use Recycled Content Materials, Salvaged Materials + Local Materials	TBD		LEED
S	С	Credit 5	Use Legally Logged Wood from Ecologically Managed Forests (FSC Certified)	TBD	Y	RELi LEED
S	С	Credit 6	Reduce Net Embodied Energy + Carbon, Water and Toxins	TBD	Y	ADAPTED LEED SMART
S	С	Poly-Credit 7	Divert Waste from Landfills, Reduce Excavated Soils Taken from Site	TBD		LEED Envis
			APPLIED CREATIVITY AND CONTEXTURAL FACTORS FOR RESILIENCY			
		AC	Applied Creativity, Innovation + Exploration			
					_	
S	С	Poly-Credit 1	Applied Creativity in Resiliency + Integrative Design			
S S		Poly-Credit 1 Poly-Credit 2	Applied Creativity in Resiliency + Integrative Design Contextual Factors + Project Responsive Topics			