GREEN DEVELOPMENT PLAN, 2020 IOWA GREEN STREETS CRITERIA

Developer Name: _____
Project Name: _____
Address (Street/City/State): _____

Description of Process

A description of the process that was used to select the green building strategies, systems and materials that will be incorporated into the project.

Mission and Goals

Statement of overall project mission and green development goals developed during integrated design process and expected outcomes from addressing those goals.

Design & Development Team Members

Name	Role

Instructions: This checklist is NOT for Community Development Block Grant Disaster Recovery projects. If working on a disaster recovery project application, please close this checklist and use the disaster recovery project checklist. Only applications to the regular CDBG program can request additional funding to achieve select Green Streets criteria identified below. Total of all additional funding requested cannot exceed 10% of CDBG budget request (Ex: $300,000 CDBG + $30,000 Green Streets Additional Funding).

				Areas of Consideration				Addiitonal Funding Request
				Champion		Strategies		
			Green Communities Criteria	*name*	*role*	*how intend to meet*	Additional Funding Requested $$$$	Additional Cost Description (show the math) (show line item costs)
EXAMPLES								
24	**24**	**5.4**	**Achieving Zero Energy**					
			(If requesting funding here, do not request additional funding for 5.2b) Achieve Zero Energy performance through one of the following. Option 1: Certify each building in the project to DOE Zero Energy Ready Home program or PHI Plus AND Either install renewables and/or procure renewable energy, which in sum will produce as much, or more, energy in a given year than the project is modeled to consume. Option 2: Certify each building in the project in a program that requires zero energy performance such as PHIUS_ Source Zero, PHI Plus, PHI Premium, ILFI's Zero Energy Petal, Zero Carbon Petal, or Living Building Certification.	architect, HERS rater, HVAC contractor, DOE ZERH certifier	design, installation, verification	Follow DOE ZERH requirements; design for passive solar; stress quality air infiltration and insulation install; use highliy efficient HVAC, appliances and lighting; add 4 kW of solar.	**$10,500**	4 kW solar array including installation = $8,000, DOE ZERH certification process consulting = $2,500, TOTAL = $10,500
5 or 10	**10**	**5.11**	**Electric Vehicle Charging**					
			Option 1 [5 points]: Install panel capacity and raceway (≥ size 1) to support future build-out of EV charging with 208/240 V, 40-amp circuits. Identify the overcurrent protective device space(s) on circuit directory as "EV CAPABLE." Option 2 [10 points]:Residential projects ≥ 2 units install ≥ 1 active electric vehicle charging station. For multifamily and commercial projects install ≥ 2 active charging stations for first 25 parking spaces and 10% of all parking spaces > 25 (round up).	architect, electrician, developer	design, installation, verification, identify and seek incentives	Install a charging station.	**$4,500**	1 charging station = $3,000, installation of charging station = $1,500, TOTAL = $4,500

Baseline Measures				Areas of Consideration				Addiitonal Funding Request
				Champion		Strategies		
			Green Communities Criteria	*name*	*role*	*how intend to meet*	Additional Funding Requested $$$$	Additional Cost Description (show the math) (show line item costs)
1. Integrative Design								
Baseline		**1.1**	**Project Priorities Survey**					
			Complete the Project Priorities Survey.				**N.A.**	
Baseline		**1.2**	**Charrettes and Coordination Meetings**					
			Develop an integrative design process that moves the outputs of the Project Priorities Survey into action through a series of collaborative meetings. Prioritize multi-benefit strategies. Assign responsibility within your design and development teams for accountability.				**N. A.**	
Baseline		**1.3**	**Documentation**					

			Include Iowa Green Streets Criteria information in your contract documents and construction specifications (Division 1 Section 01 81 13 Sustainable Design Requirements). Ensure, and indicate that the drawings and specifications have been generated to be compliant and meet the certification goals.				N. A.	
Baseline		**1.4**	**Construction Management**					
			Create, implement, and document your contractor/subcontractor education plan to ensure that all persons working on-site fully understand their role in achieving the project objectives.				N. A.	
Baseline		**1.8**	**Resilient Structures (residential only)**					
			New construction projects without a basement construct a safe room to protect against wind forces and wind debris from events such as a tornado.				N. A.	
2. Location + Neighborhood Fabric								
Baseline		**2.1**	**Sensitive Site Protection (New Construction only)**					
			All projects must: 1. Protect floodplain functions by limiting new development within the 100-year floodplain of all types of watercourses. 2. Conserve and protect aquatic ecosystems. 3. Protect ecosystem function by avoiding development of areas that contain habitat for plant and animal species identified as threatened or endangered. 4. Conserve the most productive agricultural soils by protecting prime farmland, unique farmland, and farmland of statewide or local importance.				N. A.	
Baseline		**2.2**	**Connections to Existing Development and Infrastructure**					
			Locate the project on a site with access to existing roads, water, sewers and other infrastructure within or contiguous to (having at least 25% of the perimeter bordering) existing development. Connect the project to the pedestrian grid.				N. A.	
Baseline		**2.3**	**Compact Development**					
			At a minimum, build to the residential density (dwelling units / acre) of the census block group in which your project is located.				N. A.	
Baseline		**2.5**	**Proximity to Services**					
			Locate the project within a 0.5-mile walk distance of at least four, or a 1-mile walk distance of at least seven, of the listed services.				N. A.	
Baseline		**2.6**	**Preservation of and Access to Open Space for Rural/Tribal/Small Town**					
			Option 1: Locate the project within a 0.25-mile walk distance of dedicated public open space that is a minimum of 0.75 acres; at least 80% of which unpaved. **Option 2:** Set aside a minimum of 10% (minimum of 0.25 acres) of the total project acreage as open and accessible to all residents; at least 80% of which unpaved.				N. A.	
Baseline		**2.8**	**Access to Transit (new construction)**					
			Locate projects within a 0.5-mile walk distance of transit services (bus, rail and/or ferry), constituting at least 45 or more transit rides per weekday, with some type of weekend service.				N. A.	
Baseline		**2.15a**	**Access to Broadband: Broadband Ready**				**$ Request**	**Additional Cost Description (show the math)**
			Incorporate broadband infrastructure so that when broadband service comes to a community, the property can be easily connected. Include a network of mini-ducts or conduit throughout the building, extending from the expected communications access point to each network termination point in the building.					
3. Site Improvements								
Baseline		**3.1**	**Environmental Remediation**					

			Conduct an environmental site assessment to determine whether any hazardous materials are present on-site; mitigate any found.				N. A.	
Baseline		**3.2**	**Minimization of Disturbance During Staging and Construction**					
			For sites >1 acre, implement EPA's National Pollutant Discharge Elimination System Stormwater Discharges from Construction Activities guidance, or local requirements, whichever is more stringent. For sites with an area ≤1, follow guidance in full criterion.				N. A.	
Baseline		**3.3**	**Ecosystem Services/Landscape (Baseline, if providing landscaping)**					
			If providing plantings, all must be native or climate-appropriate (adapted) to the region and appropriate to the site's soil and microclimate. Do not introduce any invasive plant species. Plant, seed, or xeriscape all disturbed areas.				N. A.	
Baseline		**3.4**	**Surface Water Management**				**$ Request**	**Additional Cost Description (show the math)**
			Through on-site infiltration, evapotranspiration, and rainwater harvesting, retain the 1.25" rain event on site.					
Baseline		**3.6**	**Efficient Irrigation and Water Reuse (if installed)**					
			Provide permanent irrigation only with reclaimed water source(s), such as harvested rainwater, greywater, air conditioning condensate, etc. Design and install an efficient irrigation system equipped with a WaterSense labeled weather-based irrigation controller (WBIC).				N. A.	
4. Water								
Baseline		**4.1**	**Water-Conserving Fixtures**				**$ Request**	**Additional Cost Description (show the math)**
			Install water-conserving fixtures meeting the specifications in the criterion. For all single-family homes and all dwelling units in buildings three stories or fewer, the static service pressure must not exceed 60 psi.					
Baseline		**4.3**	**Water Quality**					
			Baseline for Substantial Rehabs of buildings built before 1986; Optional for all other building types: Replace lead service lines. For multifamily buildings with either a cooling tower, a centralized hot water system, or 10+ stories: Develop a Legionella water management program.				N. A.	
5. Operating Efficiency								
Baseline		**5.1**	**Building Performance Requirements**				**$ Request**	**Additional Cost Description (show the math)**
			Follow the Air Barrier and Insulation Inspection Component Guide and Energy Performance Table for measures applicable to your project.					
Baseline		**5.1a**	**Building Performance Standard: New Construction: Single Family and Low-Rise Multifamily**				**$ Request**	**Additional Cost Description (show the math)**
			Certify dwelling units in the project meet or exceed the Energy Performance Requirements in Criterion 5.1 or certify the project through the ENERGY STAR New Homes program.					
Baseline		**5.1b**	**Building Performance Standard: Substantial and Moderate Rehab: Single Family and Multifamily**				**$ Request**	**Additional Cost Description (show the math)**
			Certify dwelling units in the project meet or exceed the Energy Performance Requirements in Criterion 5.1 and the air infiltration, insulation, and HVAC performance guidelines in the criterion.					
Baseline		**5.1c**	**Building Performance Standard: New Construction: Commercial, Nonprofit and Mixed-Use**				**$ Request**	**Additional Cost Description (show the math)**
			Follow all applicable requirements and best practices in Criterion 5.1. Projects must exceed the performance of the current state of Iowa adopted Energy Code at the time of submittal for plan review by at least 10 percent. Commission the building.					

Baseline		**5.1d**	**Building Performance Standard: Substantial & Moderate Rehab: Commercial, Nonprofit and Mixed-Use**				**$ Request**	**Additional Cost Description (show the math)**
			Follow all applicable requirements and best practices in Criterion 5.1. Substantial rehab projects must exceed the performance of the current state of Iowa adopted Energy Code at the time of submittal for plan review by at least 10 percent. Moderate rehab projects must meet or exceed the current start of Iowa adopted Energy Code at the time of submittal for plan review. Commission the building.					
Baseline*		**5.2a**	**Moving to Zero Energy: Additional Reductions in Energy Use**					
			* Baseline only for Disaster Recovery Housing Projects. (Not available for projects using prescriptive path for Criterion 5.1a or for projects following Criterion 5.2b or 5.4.). Design and construct a building that is projected to be more efficient that what is required by Criteria 5.1a- 5.1d. Achieve HERS score of 5 points lower than required by 5.1a-5.1d OR 5% greater efficiency than required if following ASHRAE path for 5.1a-5.1d compliance [5 points]. Additional 1 point for each additional 2-point decrease in HERS score required by Criteria 5.1a-5.1d OR for 1% greater efficiency if following ASHRAE path for Criteria 5.1a-5.1d, up to a maximum of 12 optional points.				**N. A.**	
Baseline*		**5.3a**	**Moving to Zero Energy: Photovoltaic/Solar Hot Water Ready**					
			*Baseline only for Disaster Recovery Housing Projects. Orient, design, engineer, wire, and/or plumb the development through the Photovoltaic Ready pathway or Solar Hot Water Ready Pathway to accommodate installation of photovoltaic (PV) or solar hot water system in the future.				**N. A.**	
Baseline*		**5.5a**	**Moving to Zero Carbon: All-Electric Ready**					
			*Baseline only for Disaster Recovery Housing Projects. (Not available for projects following Criterion 5.5b). Ensure the project has adequate electric service and has been designed and wired to allow for a seamless switch to electricity as a fuel source in the future for the following uses: space heating [1 point], space cooling [1 point], water heating (DHW) [1 point], clothes dryers [1 point], equipment for cooking [1 point].				**N. A.**	
Baseline		**5.6**	**Sizing of Heating and Cooling Equipment**					
			Size and select heating and cooling equipment for residenital projects in accordance with ACCA manuals J, S, and D OR in accordance with the ASHRAE Handbook of Fundamentals.				**N. A.**	
Baseline		**5.7**	**ENERGY STAR Appliances**					
			If providing appliances, install ENERGY STAR clothes washers, dishwashers and refrigerators. If appliances will not be installed or replaced at this time, specify that, at the time of installation or replacement, ENERGY STAR models must be used via Criterion 8.1 and Criterion 8.4.				**N. A.**	
Baseline		**5.8**	**Lighting**					
			Follow the guidance for high-efficacy permanently installed lighting and other characteristics for recessed light fixtures, lighting controls, lighting power density, and exterior lighting.				**N. A.**	
Baseline		**5.12**	**Advanced Framing and Resilient Design**				**$ Request**	**Additional Cost Description (show the math)**
			Use advanced framing (optimum value engineering) best practices for all framing. Follow High Wind Construction or Resilient Construction best practices from FLASH.					
6. Materials								
Baseline		**6.6**	**Bath, Kitchen, Laundry Services**					

			Use materials that have durable, cleanable surfaces throughout bathrooms, kitchens, and laundry rooms. Use moisture-resistant backing materials per ASTM # D 6329 or 3273 behind tub/shower enclosures, apart from one-piece fiberglass enclosures which are exempt.				N. A.	
Baseline		**6.8**	**Managing Moisture: Foundations**				**$ Request**	**Additional Cost Description (show the math)**
			Install capillary breaks and vapor retarders that meet specified criteria appropriate for the foundation type.					
Baseline		**6.9**	**Managing Moisture: Roofing and Wall Systems**					
			Provide water drainage away from walls, window, and roofs by implementing the list of techniques.				N. A.	
Baseline		**6.10**	**Construction Waste Management**				**$ Request**	**Additional Cost Description (show the math)**
			Develop and implement a waste management plan that reduces non- hazardous construction and demolition waste through recycling, salvaging, or diversion strategies through one of the three options. Achieve optional points by going above and beyond the requirement.					
7. Healthy Living Environment								
Baseline		**7.1**	**Radon Mitigation**				**$ Request**	**Additional Cost Description (show the math)**
			For New Construction in EPA Zone 1 areas, install passive radon-resistant features below the slab and a vertical vent pipe with junction box within 10 feet of an electrical outlet in case an active system should prove necessary in the future. For Substantial Rehab projects in EPA Zone 1, test before and after the retrofit and mitigate per the specified protocols.					
Baseline		**7.2**	**Reduce Lead Hazards in Pre-1978 Buildings**					
			Conduct lead risk assessment or inspection to identify lead hazards. Control identified lead hazards using lead abatement or interim controls, using lead-safe work practices that minimize and contain dust.				N. A.	
Baseline		**7.3**	**Combustion Equipment**					
			For New Construction and Rehab projects: Specify power-vented or direct-vent equipment when installing any new combustion appliance for space or water heating that will be located within the conditioned space. If there are any combustion appliances within the conditioned space, install one hard-wired carbon monoxide (CO) alarm with battery backup function for each sleeping zone, placed per National Fire Protection Association (NFPA) 72. **For Rehabs:** If there is any combustion equipment located within the conditioned space for space or water heating that is not power-vented or direct-vent and that is not scheduled for replacement, conduct combustion safety testing prior to and after the retrofit; remediate as indicated.				N. A.	
Baseline		**7.4**	**Garage Isolation**					
			• Provide a continuous air barrier between the conditioned space and any garage space to prevent the migration of any contaminants into the living space. Visually inspect common walls and ceilings between attached garages and living spaces to ensure that they are air-sealed before insulation is installed. • Do not install ductwork or air handling equipment for the conditioned space in a garage. • Fix all connecting doors between conditioned space and garage with gaskets or make airtight. • Install one hard-wired carbon monoxide (CO) alarm with battery backup function for each sleeping zone of the project, placed per National Fire Protection Association (NFPA) 72 unless the garage is mechanically ventilated or an open parking structure.				N. A.	
Baseline		**7.5**	**Integrated Pest Management**				**$ Request**	**Additional Cost Description (show the math)**

			Seal all wall, floor, and joint penetrations with low-VOC caulking or other appropriate nontoxic sealing methods to prevent pest entry.					
Baseline		**7.6**	**Smoke-Free Policy**					
			Implement and enforce a smoke-free policy in all common area and within a 25-foot perimeter around the exterior of all residential buildings. Lease language must prohibit smoking in these locations and provide a graduated enforcement policy. Make the smoke-free policy readily available.				**N. A.**	
Baseline		**7.7**	**Ventilation**					
			For each dwelling unit in full accordance with the current version of ASHRAE 62.2 or 62.1 as coordinated with the adopted edition of the IECC for the State of Iowa.				**N. A.**	
Baseline		**7.8**	**Dehumidification**				**$ Request**	**Additional Cost Description (show the math)**
			Option 1: Design, select, and install supplemental dehumidification equipment to keep relative humidity <60%. **Option 2:** Equip all dwelling units with dedicated space, drain, and electrical hook-ups for permanent supplemental dehumidification systems to be installed if needed and install interior RH monitoring equipment as described.					
Baseline		**7.12**	**Beyond ADA: Universal Design**				**$ Request**	**Additional Cost Description for Division I Only (show the math)**
			Implement Division 1, Required Best Practices, of the Iowa Green Streets Criteria Universal Design Required and Bonus Best Practices Checklist.					
Baseline		**7.13**	**Active Design: Promoting Physical Activity within the Building**					
			Situate at least one building stairway per the criterion to encourage use OR emphasize at least one strategy inside the building designed to increase frequency and duration of physical activity per the criterion.				**N. A.**	
8. Operations, Maintenance, and Occupant Engagement								
Baseline		**8.1**	**Building Operations & Maintenance Manual and Plan**					
			Develop a manual with thorough building operations and maintenance (O&M) guidance and a complementary plan. The manual and plan should be developed over the course of the project design, development, and construction stages, and should include sections/chapters addressing the list of topics.				**N. A.**	
Baseline		**8.2**	**Emergency Management Manual**					
			Provide a manual on emergency operations targeted toward operations and maintenance staff and other building-level personnel. The manual should address responses to various types of emergencies, leading with those that have the greatest probability of negatively affecting the project. The manual should provide guidance as to how to sustain the delivery of adequate services throughout an emergency and cover a range of topics.				**N. A.**	
Baseline		**8.3**	**Occupant Manual**				**$ Request**	**Additional Cost Description (show the math)**
			Provide a guide for building tenants and residents that explains the intent, benefits, use and maintenance of their building's green features and practices. The Occupant Manual should encourage green and healthy activities per the list of topics.					
Baseline		**8.4**	**Walk-Throughs and Orientations to Property Operation**					
			Provide a comprehensive walk-through and orientation for all residents, property manager(s), and buildings operations staff.				**N. A.**	
Baseline		**8.5**	**Energy and Water Data Collection and Monitoring System: 100% Owner Paid Utility Accounts, 15% Tenant Paid Utility Accounts**					

			For non-residential properties, collect and monitor project energy and water performance data in ENERGY STAR Portfolio Manager for 100% of accounts for a minimum of five years. Allow the Iowa Economic Development Authority access to this data. For residential properties, property owner/developer must agree to collect utility release forms from a percentage of occupants/units to track actual utility data of a sample of residential or non-residential spaces for a minimum of five years. Allow the Iowa Economic Development Authority access to this data.				N. A.	

Instructions: New construction projects must seek completion of optional criteria totaling ≥ 40 points. Building rehab projects must seek completion of optional critiera totaling ≥ 35 points. Only applications to the regular CDBG program can request additional funding to achieve select Green Streets criteria. Total of all additional funding requested cannot exceed 10% of CDBG budget request (Ex: $300,000 CDBG + $30,000 Green Streets Additional Funding).

Optional Measures				**Areas of Consideration**			**Additional Funding Request**	
Max Pts.	**Int. Pts.**		**Iowa Green Streets Criteria**	Champion		Strategies	**Additional Funding**	**Additional Cost Description (show the math)**
				name	*role*	*strategy 1, strategy 2,etc.*		
1. Integrative Design								
12 or 15		**1.5**	**Design for Health and Well-being: Health Action Plan**					
			Follow Steps of the Health Action Plan framework per the full criterion.				**N.A.**	
10		**1.6**	**Resilient Communities: Multi-Hazard Risk / Vulnerability Assessment**				**$ Request**	**Additional Cost Description (show the math)**
			Conduct a four-part assessment (social, physical, functional, strategy) to identify critical risk factors of your property and implement at least two sets of strategies to enable the project to adapt to, and mitigate, climate related or seismic risks.					
8		**1.7**	**Resilient Communities: Strengthening Cultural Resilience**					
			Integrate community and resident participation in the development processes so that the built environment honors cultural identities, resident voices, and community histories.				**N.A.**	
10		**1.8**	**Resilient Structures**				**$ Request**	**Additional Cost Description (show the math)**
			New construction projects with a basement and rehab projects construct a safe room to protect against wind forces and wind debris from events such as a tornado.					
	0		**Subtotal of Points**					
2. Location + Neighborhood Fabric								
5 or 7		**2.4**	**Compact Development**					
			Exceed the residential density (dwelling units/acre) of the census block group in which your project is located. Exceed by 2x for *[5 points]* ; exceed by 3x for *[7 points]* . In Rural/Tribal/Small Towns that do not have zoning requirements, build to a minimum net density of 7.5 units per acre for single-family houses; 12 units per acre for multifamily buildings, single and two-story; and 20 units per acre for multifamily buildings greater than two stories. *[5 points]*				**N.A.**	
6 max		**2.7**	**Preservation of and Access to Open Space**					
			Option 1: Locate the project within a 0.25-mile walk distance of dedicated open space that is a minimum of 0.75 acres; at least 80% of which unpaved. **Option 2:** Set aside a percentage of permanent open space for use by all residents; at least 80% of which unpaved. 20% [2 points]; 35% [4 points]; 45% + written statement of preservation/conservation policy [6 points].				**N.A.**	
2 - 8		**2.8**	**Access to Transit**					
			See full criterion for details and options for urban and Rural/Tribal/Small Town projects.				**N.A.**	
2 - 8		**2.9**	**Improving Connectivity to the Community**				**$ Request**	**Additional Cost Description (show the math)**

			Improve access to community amenities through at least one of the options incentivizing biking mobility or improving access to transit. Must implement at least 3 of the options.					
5 max		**2.10**	**Passive Solar Heating / Cooling**					
			Design and build with passive solar design, orientation and shading that meet the guidelines specified.				**N.A.**	
10		**2.11**	**Adaptive Reuse of Buildings**					
			Rehabilitate and adapt an existing structure. Design the project to adapt, renovate, or reuse at least 50% of the existing structure and envelope.				**N.A.**	
6		**2.12**	**Access to Fresh, Local Foods**					
			Pursue one of three options to provide residents and staff with access to fresh, local foods, including neighborhood farms and gardens, community-supported agriculture, or proximity to farmers markets.				**N.A.**	
8		**2.13**	**Advanced Certification: Site Planning, Design and Management**				**$ Request**	**Additional Cost Description (show the math)**
			Locate building(s) within a community that is certified in LEED for Neighborhood Development, LEED for Cities and Communities, Living Community Challenge, or SITES.					
6 max		**2.14**	**Local Economic Development and Community Wealth Creation**					
			Demonstrate that local preference for construction employment and subcontractor hiring was part of your bidding process, and how it functioned during construction or demonstrate that you achieved at least 20% local employment or provide physical space for small business, nonprofits, and/or skills and workforce education.				**N.A.**	
6		**2.15b**	**Access to Broadband: Connectivity**					
			Ensure all units and common spaces in the property have broadband internet access with at least a speed of 25/3 mbs.				**N.A.**	
	0		**Subtotal of Points**					
3. Site Improvements								
10		**3.5**	**Surface Stormwater Management: Channel Protection Volume**				**$ Request**	**Additional Cost Description (show the math)**
			Through on-site infiltration, evapotranspiration, and rainwater harvesting, retain the 1.25" rain event on site (rehab projects) or 2.5" rain event on site (new construction or projects disturbing ≥ 1,000 square feet.					
6		**3.7**	**Efficient Irrigation and Water Reuse**				**$ Request**	**Additional Cost Description (show the math)**
			At least 50% of the site's irrigation satisfied by water use from sources listed.					
	0		**Subtotal of Points**					
4. Water								
6 max		**4.2**	**Advanced Water Conservation**				**$ Request**	**Additional Cost Description (show the math)**
			Reduce total indoor water consumption by at least 30% compared to baseline indoor water consumption chart. Any new toilet, showerhead, and/or lavatory faucet must be WaterSense certified.					
3, 8 or 11		**4.3**	**Water Quality**				**$ Request**	**Additional Cost Description (show the math)**
			Mandatory for Substantial Rehabs of buildings built before 1986; Optional for all other building types: Replace lead service lines. *[3 points]* Test and remediate as indicated for lead, nitrates, arsenic, and coliform bacteria.					
4		**4.4**	**Monitoring Water Consumption and Leaks**					

			Conduct pressure-loss tests and visual inspections to determine if there are any leaks; fix any leaks found; Install an advanced water monitoring and leak detection system capable of identifying and shutting water off during anomalous water events. OR Install a device to separately monitor water consumption of each cold branch off the apartment line riser for each dwelling unit or each cold water riser and the domestic hot water cold water feed for each building or each toilet that allows remote monitor readings; common laundry facilities; boiler makeup water; outdoor water consumption; and water consumption in any non- residential space.				N.A.	
4		4.5	**Efficient Plumbing Layout & Design**					
			Store no more than 0.5 gallon of water in any piping/manifold between the fixture and the water heating source or recirculation line. No more than 0.6 gallon of water shall be collected from the fixture before a 10-degree Fahrenheit rise in temperature is observed. Recirculation systems must be demand-initiated.				N.A.	
6 max		4.6	**Non-Potable Water Reuse**				$ Request	Additional Cost Description (show the math)
			Harvest, treat, and reuse rainwater and/or greywater to meet a portion of the project's non-potable water needs: 10% reuse *[3 points]* ; 20% reuse *[4 points]* ; 30% reuse *[5 points]* ; 40% reuse *[6 points]* .					
8		4.7	**Access to Potable Water During Emergencies**					
			Provide residents with ready access to potable water in the event of an emergency that disrupts normal access to potable water, including disruptions related to power outages that prevent pumping water to upper floors of multifamily buildings or pumping of water from on-site wells, per one of the three options listed.				N.A.	
	0		**Subtotal of Points**					
5. Operating Efficiency								
12 max		5.2a	**Moving to Zero Energy: Additional Reductions in Energy Use**				$ Request	Additional Cost Description (show the math)
			(Not available for projects using prescriptive path for Criterion 5.1a or for projects following Criterion 5.2b or 5.4.). Design and construct a building that is projected to be more efficient that what is required by Criteria 5.1a-5.1d. Achieve HERS score of 5 points lower than required by 5.1a-5.1d OR 5% greater efficiency than required if following ASHRAE path for 5.1a-5.1d compliance [5 points]. Additional 1 point for each additional 2-point decrease in HERS score required by Criteria 5.1a-5.1d OR for 1% greater efficiency if following ASHRAE path for Criteria 5.1a-5.1d, up to a maximum of 12 optional points.					
12-15		5.2b	**Moving to Zero Energy: Near Net Zero Certification**				$ Request	Additional Cost Description (show the math)
			(Not available for projects following Criterion 5.2a or 5.4.). Certify the project in a program that requires advanced levels of building envelope performance such as DOE ZERH [12 points] and/or PHI Classic or PHIUS+ [15 points].					
3-6		5.3a	**Moving to Zero Energy: Photovoltaic/Solar Hot Water Ready**				$ Request	Additional Cost Description (show the math)
			Orient, design, engineer, wire, and/or plumb the development through the Photovoltaic Ready pathway or Solar Hot Water Ready Pathway to accommodate installation of photovoltaic (PV) or solar hot water system in the future.					
8 max		5.3b	**Moving to Zero Energy: Renewable Energy**				$ Request	Additional Cost Description (show the math)
			Install renewable energy source to provide a specified percentage of the project's estimated source energy demand. See full criterion for allowable sources. Option 1: For percentage of total project energy consumption provided by renewable energy [4-8 points]. Option 2: For percentage of common area meter energy consumption provided by renewable energy [1-5 points].					
24		5.4	**Achieving Zero Energy**				$ Request	Additional Cost Description (show the math)

			(Not available for projects following Criterion 5.2a, 5.2b, 5.3a, or 5.3b.) Achieve Zero Energy performance through one of the following. **Option 1:** Certify each building in the project to DOE Zero Energy Ready Home program or PHI Plus AND Either install renewables and/or procure renewable energy, which in sum will produce as much, or more, energy in a given year than the project is modeled to consume. **Option 2:** Certify each building in the project in a program that requires zero energy performance such as PHIUS_ Source Zero, PHI Plus, PHI Premium, ILFI's Zero Energy Petal, Zero Carbon Petal, or Living Building Certification.					
5 max		**5.5a**	**Moving to Zero Carbon: All-Electric Ready**					
			(Not available for projects following Criterion 5.5b). Ensure the project has adequate electric service and has been designed and wired to allow for a seamless switch to electricity as a fuel source in the future for the following uses: space heating [1 point], space cooling [1 point], water heating (DHW) [1 point], clothes dryers [1 point], equipment for cooking [1 point].				**N.A.**	
15		**5.5b**	**Moving to Zero Carbon: All-Electric**				**$ Request**	**Additional Cost Description (show the math)**
			(Not available for projects following Criterion 5.5a). No combustion equipment used as part of the building project; project is all-electric.					
8		**5.9**	**Resilient Energy Systems: Floodproofing**					
			Conduct floodproofing of lower floors, including perimeter floodproofing (barriers/shields). Design and install building systems as specified by the full criterion so that operation of those systems will not be grossly affected in a flood.				**N.A.**	
8		**5.10**	**Resilient Energy Systems: Critical Loads**					
			Provide emergency power to serve at least three critical energy loads as described by the full criterion. **Option 1:** Islandable PV system. **Option 2:** Efficient generator.				**N.A.**	
10 Max		**5.11**	**Electric Vehicle Charging**				**$ Request**	**Additional Cost Description (show the math)**
			Option 1 [5 points]: Install panel capacity and raceway (≥ size 1) to support future build-out of EV charging with 208/240 V, 40-amp circuits. Identify the overcurrent protective device space(s) on circuit directory as "EV CAPABLE." **Option 2 [10 points]:**Residential projects ≥ 2 units install ≥ 1 active electric vehicle charging station. For multifamily and commercial projects install ≥ 2 active charging stations for first 25 parking spaces and 10% of all parking spaces > 25 (round up).					
	0		**Subtotal of Points**					
6. Materials								
8 max		**6.1**	**Ingredient Transparency for Material Health**					
			Install products that have publicly disclosed inventories characterized and screened to 1,000 ppm or better. •lll1 point per 5 installed Declare or HPD products from at least three different product categories. •lll1 point per 2 installed Declare or HPD products in any of these categories: adhesives, sealants, windows. 1 point per each product with third-party verified HPD or third party verified Declare label. 2 points per each product with third-party verified HPD or third party verified Declare label in any of these categories: adhesives, sealants, windows.				**N.A.**	
3 max		**6.2**	**Recycled Content and Ingredient Transparency**					
			Use building products that feature, and disclose, their recycled content. The building product must make up 75% by weight or cost of a project category for the project and be composed of at least 25% post-consumer recycled content.				**N.A.**	
8 max		**6.3**	**Chemical Hazard Optimization**					
			Install products that have third-party verification of optimization to 100 ppm or better per the options listed within the full criterion.				**N.A.**	

15 max		**6.4**	**Healthier Material Selection**						
			Select all interior paints, coatings, primers, and wallpaper; interior adhesives and sealants; flooring; insulation; and composite wood as specified. Optional points also available.				**N.A.**		
12 max		**6.5**	**Environmentally Responsible Material Selection**						
			Select concrete, steel, or insulation with a publicly disclosed EPD *[3 points]* , Install a green or cool roof *[3 points]* , use reflective paving *[3 points]* , and/or use FSC certified wood *[3 points]* . Refer to criterion for specifics.				**N.A.**		
4 max		**6.7**	**Regional Materials**						
			Use products that were processed and manufactured regionally.				**N.A.**		
6 max		**6.10**	**Construction Waste Management**						
			Develop and implement a waste management plan that reduces non- hazardous construction and demolition waste through recycling, salvaging, or diversion strategies through one of the three options. Achieve optional points by going above and beyond the requirement.				**N.A.**		
2		**6.11**	**Recycling Storage**						
			For projects with municipal recycling infrastructure and/or haulers, provide separate bins for the collection of trash and recycling for each dwelling unit and all shared community rooms. **OR** For projects without that infrastructure, advocate to the local waste hauler or municipality for regular collection of recyclables.				**N.A.**		
	0		**Subtotal of Points**						
7. Healthy Living Environment									
10		**7.6**	**Smoke-Free Policy (also mandatory)**						
			Optional: Expand the policy above to include all indoor spaces in the property.				**N.A.**		
12 max		**7.7**	**Ventilation (Optional for Moderate Rehab)**				**$ Request**	**Additional Cost Description (show the math)**	
			For each dwelling unit in full accordance with the current version of ASHRAE 62.2 or 62.1 as coordinated with the adopted edition of the IECC for the State of Iowa. See full criterion for details and points breakdown.						
3		**7.9**	**Construction Pollution Management**						
			Option 1: Earn the EPA Indoor airPlus label. **Option 2:** In all dwelling units, seal all heating, cooling, and ventilation return and supply floor ducts and returns throughout construction to prevent construction debris from entering. Flush all dwelling units after completion of construction and prior to occupancy for either 48 hours or with at least 14,000 ft3 per ft2 of floor area, then replace all air handling equipment filters.				**N.A.**		
3		**7.10**	**Noise Reduction**						
			Option 1: Test and demonstrate that noise levels in bedrooms meet 30 dB LAeq (continuous) and 45 dB LAmax, (single sound). **Option 2:** Provide a noise abatement plan specific to the site covering general noise mitigation techniques in accordance with 24 CFR 51B. **Option 3:** Ensure all exterior wall and party wall penetrations are sealed with acoustical sealant, all party walls and floor/ceiling assemblies have an STC rating of at least 55, and exterior windows and doors in projects near a significant exterior noise source have an STC rating of at least 35.				**N.A.**		
9		**7.11**	**Active Design: Promoting Physical Activity**						

			Option 1: Encouraging Everyday Stair Usage (buildings that include stairs as the only means to travel from one floor to another are not eligible for this option.) Provide a staircase that is accessible and visible from the main lobby and is visible within a 25-foot walking distance from any point in the lobby per the specifications listed. Place point-of-decision signage. **Option 2:** Activity Spaces. Provide on- site dedicated recreation space with exercise or play opportunities for adults and/or children that is open and accessible to all residents; see criterion for specifics.				**N.A.**	
10		**7.12**	**Beyond ADA: Universal Design (also mandatory)**				**$ Request**	**Additional Cost Description for Division II Only (show the math)**
			Implement Division 2, Best Practices, of the Iowa Green Streets Criteria Universal Design Required and Bonus Best Practices Checklist.					
8		**7.13**	**Healing-Centered Design**					
			Select and implement at least two of the Options with at least two different strategies listed in at least 75% units. **Option 1:** Provide an environment that promotes feelings of real and perceived safety. **Option 2:** Create flexible spaces that allow for personalization and/or manipulation to meet individual and community needs. **Option 3:** Connect residents and staff to a living landscape and the natural environment. **Option 4:** Utilize art and culture in project design and programming and promote social connectedness.				**N.A.**	
	0		**Subtotal of Points**					
Total Pts	**0**		**Total Baseline Additional Funding Requested**				**$0**	
			Total Optional Additional Funding Requested				**$0**	
			Total of All Additional Funding Requested for Baseline and Optional Criteria				**$0**	