2020 IOWA GREEN STREETS CRITERIA QUICK REFERENCE

This checklist provides an overview of the technical requirements within the Iowa Green Street Criteria.

To achieve Iowa Green Streets Criteria Certification, all projects must achieve compliance with the Criteria Baseline measures applicable to that project type. Additionally, New Construction projects must achieve 40 optional points, Substantial Rehab projects must achieve 35 optional points, and Moderate Rehab projects must also achieve 35 optional points.

Projects proposing to achieve a higher quantity of optional points may be scored more favorably during the application review process. To assist you in evaluating your project, a fillable form is available here: iowaeda.com/userdocs/programs/2020iowagreenstreetscriteriachecklistform.pdf

B = Baseline # = OPTIONAL POINTS		
		1. INTEGRATIVE DESIGN
○YES ○NO ○MAYBE	B	**1.1 Integrative Design: Project Priorities Survey** Complete the Project Priorities Survey in Appendix K.
○YES ○NO ○MAYBE	B	**1.2 Integrative Design: 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.
○YES ○NO ○MAYBE	B	**1.3 Integrative Design: Documentation** Include Iowa Green Streets Criteria information in your contract documents and construction specifications (Division 1 Section 01 81 13 Sustainable Design Requirements) as necessary for the construction team to understand the requirements and how they will be verified. Ensure, and indicate that the drawings and specifications have been generated to be compliant and meet the certification goals.
○YES ○NO ○MAYBE	B	**1.4 Integrative Design: 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. Include a summary of the Project Priorities Survey (Criterion 1.1), the sustainability goals, and anticipated roles of each party regarding performance expected of the project. Attach and reference this training plan to Division 1 Section 01 81 13 Sustainable Design Requirements. Include timeline estimates for performance testing and verification schedules in the overall construction schedule. As relevant, review requirements for Criteria 8.1, 8.2, and 8.3, and begin populating these documents with relevant information from design and construction.
○YES ○NO ○MAYBE	12 or 15	**1.5 Design for Health and Well-Being: Health Action Plan** Follow Steps 1–6 of the Health Action Plan framework per the full criterion. [12 points with extra 3 points for Step 7] This includes: 1) Commit to embedding health into the project lifecycle; 2) Partner with a project health professional; 3) Collect and analyze community health data; 4) Engage with community stakeholders to prioritize health data and strategies; 5) Identify strategies to address those health issues; 6) Create an implementation plan; and 7) Create a monitoring plan.

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○YES ○NO ○MAYBE	10	**1.6 Resilient Communities: Multi-Hazard/Vulnerability Assessment** 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. See full criterion for more guidance.
○YES ○NO ○MAYBE	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. **Option 1:** Complete a Cultural Resilience Assessment OR **Option 2:** Convene a Cultural Advisory Group
○YES ○NO ○MAYBE	B 10	**1.8 Resilient Structures** **Baseline:** New residential construction projects without a basement construct a safe room to protect against wind forces and wind debris from events such as a tornado. **Optional:** 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.
		SUBTOTAL OPTIONAL POINTS
	B = Baseline # = OPTIONAL POINTS	
		2. LOCATION + NEIGHBORHOOD FABRIC
○YES ○NO ○MAYBE	B	**2.1 Sensitive Site Protection** All projects must: 1. Protect floodplain functions (e.g., storage, habitat, water quality) by limiting new development within the 100-year floodplain of all types of watercourses. 2. Conserve and protect aquatic ecosystems, including wetlands and deepwater habitats, that provide critical ecosystem functions for fish, other wildlife, and people. 3. Protect ecosystem function by avoiding the 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. If your site contains any of these ecologically sensitive features, follow the specific Requirements under that subheading.

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○YES ○NO ○MAYBE	B	**2.2 Connections to Existing Development and Infrastructure** Locate the project on a site with access to existing roads, water, sewers, and other infrastructure and within or contiguous to (having at least 25% of the perimeter bordering) existing development. Connect the project to the existing pedestrian network. For sites over 5 acres, provide connections to the adjacent street network at least every 800 feet. Tie all planned bike paths to existing bike paths.
○YES ○NO ○MAYBE	B	**2.3 Compact Development** *(Baseline for New Construction)* At a minimum, build to the residential density (dwelling units/acre) of the census block group where the project is located. In Rural/Tribal/Small Town locations that do not have zoning requirements: Build to a minimum net density of 5 units per acre for single-family houses; 10 units per acre for multifamily buildings, single and two-story; and 15 units per acre for multifamily buildings greater than two-stories.
○YES ○NO ○MAYBE	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]*
○YES ○NO ○MAYBE	B	**2.5 Proximity to Services and Community Resources** *(Baseline for New Construction)* 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.
○YES ○NO ○MAYBE	B	**2.6 Preservation of and Access to Open Space for Rural/Tribal/Small Town** *(Baseline for New Construction 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. OR **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.
○YES ○NO ○MAYBE	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. OR **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]*.

	B = Baseline # = OPTIONAL POINTS	
OYES ONO OMAYBE		**2.8 Access to Transit**
	3	Fixed route bus service available within .5 (1/2) mile walking distance of the property in which the bus stops at least twenty (20) times per weekday. *[3 points]*
	2	Fixed route bus service available withing .5 (1/2 mile) walking distance of the property in which the bus stops at least ten (10) times per weekday. *[2 points]*
	2	Rides are scheduled for pick up at your door or by the curb from their residence to a location of choice. *[2 points]*
OYES ONO OMAYBE	2-8	**2.9 Improving Connectivity to the Community** Improve access to community amenities through at least one of the options incentivizing biking mobility or improving access to transit.
OYES ONO OMAYBE	5 Max	**2.10 Passive Solar Heating/Cooling** Design and build with passive solar design, orientation, and shading that meet the guidelines specified.
OYES ONO OMAYBE	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.
OYES ONO OMAYBE	6	**2.12 Access to Fresh, Local Foods** Provide residents and staff with access to fresh, local foods through one of the following options: **Option 1:** Neighborhood Farms and Gardens **Option 2:** Community-Supported Agriculture **Option 3:** Proximity to Farmers Market
OYES ONO OMAYBE	8	**2.13 Advanced Certification: Site Planning, Design, and Management** Locate building(s) within a community that is certified in LEED for Neighborhood Development, LEED for Cities and Communities, Living Community Challenge, or SITES.
	B = Baseline # = OPTIONAL POINTS	
OYES ONO OMAYBE	2 3 3	**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.

○YES ○NO ○MAYBE	B	**2.15a Access to Broadband: Broadband Ready** *(Baseline for New Construction and Substantial Rehab Projects in Rural/ Tribal/Small Town Locations)* 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.
○YES ○NO ○MAYBE	6	**2.15b Access to Broadband: Connectivity** *(Optional for Rural/Tribal/Small Town)* Ensure all units and common spaces in the property have broadband internet access with at least a speed of 25/3 mbs.
		SUBTOTAL OPTIONAL POINTS
B = Baseline # = OPTIONAL POINTS		
		3. SITE IMPROVEMENTS
○YES ○NO ○MAYBE	B	**3.1 Environmental Remediation** Determine whether there are any hazardous materials present on the site through one of the four methods listed. Mitigate any contaminants found.
○YES ○NO ○MAYBE	B	**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.
○YES ○NO ○MAYBE	B	**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.
○YES ○NO ○MAYBE	B	**3.4 Surface Stormwater Management** *(Baseline for New Construction; Baseline for all Rehab projects if land disturbed is ≥1,000 sq.ft.)* Through on-site infiltration, evapotranspiration, and rainwater harvesting, retain the 1.25" rain event on site.
B = Baseline # = OPTIONAL POINTS		
○YES ○NO ○MAYBE	10	**3.5 Surface Stormwater Management: Channel Protection Volume** *(Baseline to manage 2.5" rain event for Iowa Green Streets Certification Plus)* 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.

○YES ○NO ○MAYBE	B	**3.6 Efficient Irrigation and Water Reuse** *(Baseline, if permanent irrigation is utilized)* At least 50% of the site's irrigation satisfied by water use from the sources listed. If irrigation is utilized, install an efficient irrigation system per the requirements listed.
○YES ○NO ○MAYBE	6	**3.7 Efficient Irrigation and Water Reuse** *(for systems grandfathered-in in 3.6)* At least 50% of the site's irrigation satisfied by water use from the sources listed.
		SUBTOTAL OPTIONAL POINTS
B = Baseline # = OPTIONAL POINTS		
		4. WATER CONSERVATION
○YES ○NO ○MAYBE	B	**4.1 Water-Conserving Fixtures** 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.
○YES ○NO ○MAYBE	6 Max	**4.2 Advanced Water Conservation** *[Baseline for Iowa Green Streets Certification Plus]* 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.
○YES ○NO ○MAYBE	B / 3 B 8	**4.3 Water Quality** Baseline/***Optional:*** Baseline for Substantial Rehabs of buildings built before 1986; Optional for all other building types: Replace lead service lines. *[3 points]* **Baseline:** For multifamily buildings with either a cooling tower, a centralized hot water system, or 10+ stories: Develop a Legionella water management program. **Optional:** Test and remediate as indicated for lead, nitrates, arsenic, and coliform bacteria.
B = Baseline # = OPTIONAL POINTS		

○YES ○NO ○MAYBE	4	**4.4 Monitoring Water Consumption and Leaks** Conduct pressure-loss tests and visual inspections to determine if there are leaks; fix leaks. **AND** 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.
○YES ○NO ○MAYBE	4	**4.5 Efficient Plumbing Layout and 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.
○YES ○NO ○MAYBE	6 Max	**4.6 Non-Potable Water Reuse** 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]*.
○YES ○NO ○MAYBE	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.
		SUBTOTAL OPTIONAL POINTS
B = Baseline # = OPTIONAL POINTS		
		5. OPERATING EFFICIENCY
○YES ○NO ○MAYBE	B	**5.1 Building Performance Requirements** Follow the Air Barrier and Insulation Inspection Component Guide and Energy Performance Table for measures applicable to your project.
○YES ○NO ○MAYBE	B	**5.1a Building Performance Standard** (New Construction: single-family and low-rise multifamily) 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.
○YES ○NO ○MAYBE	B	**5.1b Building Performance Standard** (Substantial and Moderate Rehab: Single Family and Multifamily) 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.
B = Baseline # = OPTIONAL POINTS		

○YES ○NO ○MAYBE	B	**5.1c Building Performance Standard** (New Construction: Commercial, Nonprofit and Mixed-Use) 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.
○YES ○NO ○MAYBE	B	**5.1d Building Performance Standard** (Substantial and Moderate Rehab: Commercial, Nonprofit and Mixed-Use) 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 state of Iowa adopted Energy Code at the time of submittal for plan review. Commission the building.
○YES ○NO ○MAYBE	12 Max	**5.2a Moving to Zero Energy: Additional Reductions in Energy Use** *[Baseline for Disaster Recovery Housing Projects to Achieve ≥5 points]* (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 than 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.
○YES ○NO ○MAYBE	12-15	**5.2b Moving to Zero Energy: Near Zero Certification** *[5.2b* **or** *5.4 Baseline for Iowa Green Streets Certification Plus]* (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]*.
○YES ○NO ○MAYBE	3-6	**5.3a Moving to Zero Energy: Photovoltaic/Solar Hot Water Ready** *[Baseline for Disaster Recovery Housing Projects]* (Not available for projects following Criterion 5.3b or 5.4.) 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.
○YES ○NO ○MAYBE	8 Max 4-8 1-5	**5.3b Moving to Zero Energy: Renewable Energy** *(Not available for projects following Criterion 5.3a or 5.4)* 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. OR **Option 2:** For percentage of common area meter energy consumption provided by renewable energy.
B = Baseline # = OPTIONAL POINTS		

○YES ○NO ○MAYBE	24	**5.4 Achieving Zero Energy** *[5.2b* **or** *5.4 Baseline for Iowa Green Streets Certification Plus]* (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. OR **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.
○YES ○NO ○MAYBE	5 Max	**5.5a Moving to Zero Carbon: All-Electric Ready** *[Baseline 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]*.
○YES ○NO ○MAYBE	15	**5.5b Moving to Zero Carbon: All Electric** *[Disaster Recovery Projects seeking Iowa Green Streets Certification Plus may request additional funding with proof of additional costs]* (Not available for projects following Criterion 5.5a) No combustion equipment used as part of the building project; project is all-electric.
○YES ○NO ○MAYBE	B	**5.6 Sizing of Heating and Cooling Equipment** *(Baseline for Substantial and Moderate Rehabs that include replacement of heating and cooling equipment.)* Size and select heating and cooling equipment in accordance with ACCA manuals J, S, and D OR in accordance with the ASHRAE Handbook of Fundamentals.
○YES ○NO ○MAYBE	B	**5.7 ENERGY STAR Appliances** *(Baseline 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.
○YES ○NO ○MAYBE	B	**5.8 Lighting** *(Baseline for all lighting within New Construction and Substantial Rehab projects. Baseline for new lighting in Moderate Rehab projects.)* Follow the guidance for high-efficacy permanently installed lighting and other characteristics for recessed light fixtures, lighting controls, lighting power density, and exterior lighting.
○YES ○NO ○MAYBE	8	**5.9 Resilient Energy Systems: Floodproofing** *(Not relevant for Rehab projects in Special Flood Hazard Areas)* 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.
B = Baseline # = OPTIONAL POINTS		

○YES ○NO ○MAYBE	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 OR **Option 2:** Efficient generator
○YES ○NO ○MAYBE	5-10	**5.11 Electric Vehicle Charging** *[Disaster Recovery Projects seeking Iowa Green Streets Certification Plus may request additional funding with proof of additional costs].* **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).
○YES ○NO ○MAYBE	B	**5.12 Advanced Framing** Use advanced framing (optimum value engineering) best practices for all framing.
○YES ○NO ○MAYBE	5-15 5 10 15	**5.13 FORTIFIED Roofs and Homes** FORTIFIED Roof — When re-roofing an existing building or constructing a new building, achieve FORTIFIED Roof (High Wind & Hail) certification. *[5 points]* FORTIFIED Silver — When constructing a new building or home, achieve FORTIFIED Silver certification. *[10 points]* FORTIFIED Gold — When constructing a new building or home, achieve FORTIFIED Gold certification. *[15 points]*
		SUBTOTAL OPTIONAL POINTS
B = Baseline # = OPTIONAL POINTS		
		6. MATERIALS
○YES ○NO ○MAYBE	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: · 1 point per 5 installed Declare or HPD products from at least three different product categories. · 1 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.

○YES ○NO ○MAYBE	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.
○YES ○NO ○MAYBE	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.
	B = Baseline # = OPTIONAL POINTS	
○YES ○NO ○MAYBE	B 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.
○YES ○NO ○MAYBE	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.
○YES ○NO ○MAYBE	B	**6.6 Bath, Kitchen, Laundry Surfaces** *(Baseline for New Construction and Substantial Rehab. Moderate Rehabs that do not include work in the shower and tub areas are exempt from the shower and tub enclosure requirement.)* 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.
○YES ○NO ○MAYBE	4 Max	**6.7 Regional Materials** *[Baseline for Iowa Green Streets Certification Plus]* Use products that were processed and manufactured regionally. Select any or all of these options (every two compliant materials can qualify for 1 point): · Framing · Cladding (e.g. siding, masonry, roofing) · Flooring · Concrete/cement and aggregate · Drywall/interior sheathing
○YES ○NO ○MAYBE	B	**6.8 Managing Moisture: Foundations** *(Baseline for all New Construction projects and for all Rehab projects replacing/modifying basement or crawl space)* Install capillary breaks and vapor retarders that meet specified criteria appropriate for the foundation type.
○YES ○NO ○MAYBE	B	**6.9 Managing Moisture: Roofing and Wall Systems** *(Baseline for all Rehab projects that include deficiencies in or replacing assemblies called out below.)* Provide water drainage away from walls, window, and roofs by implementing the list of techniques.
○YES ○NO ○MAYBE	B 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.

○YES ○NO ○MAYBE	12 Max	**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.
		SUBTOTAL OPTIONAL POINTS
	B = Baseline # = OPTIONAL POINT	
		7. HEALTHY LIVING ENVIRONMENT
○YES ○NO ○MAYBE	B	**7.1 Radon Mitigation** *(Baseline for New Construction and Substantial Rehab)* 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.
○YES ○NO ○MAYBE	B	**7.2 Reduce Lead Hazards in Pre-1978 Buildings** *(Baseline for Substantial Rehab of Buildings Constructed Before 1978)* 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.
○YES ○NO ○MAYBE	B	**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.
○YES ○NO ○MAYBE	B	**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 CO alarm with battery backup function for each sleeping zone of the project, placed per NFPA 72 unless the garage is mechanically ventilated or an open parking structure.
○YES ○NO ○MAYBE	B	**7.5 Integrated Pest Management** Seal all wall, floor, and joint penetrations with low-VOC caulking or other appropriate nontoxic sealing methods to prevent pest entry.

○YES ○NO ○MAYBE	B 10	**7.6 Smoke-Free Policy** *(Baseline and Optional)* ***Baseline:*** 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. ***Optional:*** Expand the policy above to include all indoor spaces in the property.
B = Baseline # = OPTIONAL POINT		
○YES ○NO ○MAYBE	B 12 Max	**7.7 Ventilation** *(Baseline for New Construction and Substantial Rehab; Optional for Moderate Rehab)* 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, install: · A local mechanical exhaust system in each bathroom *[3 points if Moderate Rehab]* · A local mechanical exhaust system in each kitchen *[3 points if Moderate Rehab]* · A whole-house mechanical ventilation system *[3 points if Moderate Rehab]* Verify these flow rates are either within +/– 15 CFM or +/– 15% of design value. Each multifamily building ≥ 4 stories, in 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, install: · A mechanical ventilation system for all hallways and common spaces *[3 points if Moderate Rehab]* For all project types, in addition to the above requirements: · All systems and ductwork installed per manufacturer's recommendations · All bathroom fans ENERGY STAR-labeled and wired for adequate run-time. · If using central ventilation systems with rooftop fans, each fan must be direct-drive and variable-speed with speed controller mounted near the fan. Fans with design CFM 300-2000 must also have an ECM motor.
○YES ○NO ○MAYBE	B	**7.8 Dehumidification** **Option 1:** Design, select, and install supplemental dehumidification equipment to keep relative humidity <60%. OR **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.
○YES ○NO ○MAYBE	3	**7.9 Construction Pollution Management** **Option 1:** Earn the EPA Indoor airPlus label OR **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.

○YES ○NO ○MAYBE	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). OR **Option 2:** Provide a noise abatement plan specific to the site covering general noise mitigation techniques in accordance with 24 CFR 51B. OR **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.
B = Baseline # = OPTIONAL POINT		
○YES ○NO ○MAYBE	8	**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. OR **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.
○YES ○NO ○MAYBE	10 7	**7.12 Beyond ADA: Universal Design** **Optional [10 points]:** Implement Division 1, Best Practices, of the Iowa Green Streets Criteria Universal Design Best Practices Checklist. One point for each section implemented (i.e., Section 1 Entrance, Section 2 Circulation, Section 3 Bathrooms, etc.) up to a total of 10 points. **Optional [7 points]:** Implement Division 2, Best Practices, of the Iowa Green Streets Criteria Universal Design Required and Bonus Best Practices Checklist. One point for each numbered item best practice to be implemented (i.e., 1.2, 3.3, 3.6, 4.3, 4.4, 6.2, 10.1) up to a total of 7 points.
○YES ○NO ○MAYBE	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.
		SUBTOTAL OPTIONAL POINTS
B = Baseline # = OPTIONAL POINT		**8. OPERATIONS, MAINTENANCE + OCCUPANT ENGAGEMENT**

○YES ○NO ○MAYBE	B	**8.1 Building Operations & Maintenance Manual and Plan** *(For all Multifamily, Commercial and Mixed-Use projects)* 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.
	B = Baseline # = OPTIONAL POINT	
○YES ○NO ○MAYBE	B	**8.2 Emergency Management Manual** (For all Multifamily, Commercial and Mixed-Use projects) 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 servicesg throughout an emergency and cover a range of topics, including but not limited to: · communication plans for staff and residents · useful contact information for public utility and other service providers · infrastructure and building "shutdown" procedures · plan for regular testing of backup energy systems, if backup systems exist
○YES ○NO ○MAYBE	B	**8.3 Occupant Manual** 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.
○YES ○NO ○MAYBE	B	**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.
○YES ○NO ○MAYBE	B	**8.5 Energy and Water Data Collection and Monitoring** For rental properties, upload project energy and water performance data in an online utility benchmarking platform annually for at least five years from time of construction completion per one of the four methods provided; grant IEDA view access for that period. For owner-occupied units, collect and monitor utility data in a manner that allows for easy access and review.
		SUBTOTAL OPTIONAL POINTS
		TOTAL OPTIONAL POINTS