



2020 IOWA GREEN STREETS CRITERIA CHECKLIST

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 mandatory measures applicable to that project type. Additionally, New Construction projects must achieve 35 optional points, Substantial Rehab projects must achieve 30 optional points, and Moderate Rehab projects must also achieve 30 optional points. Projects proposing to achieve a higher quantity of optional points will be scored favorably during the application review process.

M = MANDATORY
= OPTIONAL POINTS

1. INTEGRATIVE DESIGN

<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	1.1a Goal Setting Develop an integrative design process that works best for your project team and intentions. At minimum, document: <ol style="list-style-type: none"> 1. A statement of the overall green development goals of the project and the expected intended outcomes from addressing those goals. 2. A summary of the integrative process that was used to select the green building strategies, systems and materials that will be incorporated into the project. 3. A description of how progress and success against these goals will be measured throughout the completion of design, construction and operation to ensure that the green features are included and correctly installed.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	1.1b Criteria Documentation Create design and construction documentation to include information on implementation of appropriate Iowa Green Streets Criteria.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	1.2a Occupant Health and Well-Being: Design for Health Identify potential occupant health factors and design your project to address resident health and well-being by using the matrix provided in this section.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	12	1.2b Occupant Health and Well-Being: Health Action Plan At pre-design and continuing throughout the project life cycle, collaborate with public health professionals and community stakeholders to assess, identify, implement and monitor achievable actions to enhance health-promoting features of the project and minimize features that could present health risks. Specifically, create a Health Action Plan and integrate the selected interventions and a plan for monitoring and evaluating progress per the full criterion.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	1.3a Resilient Communities: Design for Resilience <i>(New Construction and Substantial Rehab only)</i> Given your project building type, location and expected resident population, identify a project characteristic that would most likely impact your project's ability to withstand an unexpected weather event or loss of power. Select at least one criterion from the given list that would help mitigate that impact, and incorporate this within your project plans and design. Include a short narrative providing your rationale for selecting this criterion above the others.



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INTEGRATIVE DESIGN (continued)

<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	15	<p>1.3b Resilient Communities: Multi-Hazard Risk / Vulnerability Assessment Carry out a Vulnerabilities Assessment and implement building elements designed to enable the project to adapt to, and mitigate, climate impacts given the project location, building /construction type and resident population.</p>
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_____ SUBTOTAL OPTIONAL POINTS

2. LOCATION + NEIGHBORHOOD FABRIC

<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	<p>2.1 Sensitive Site Protection Do not locate new projects, including buildings, built structures, roads or parking areas, on portions of sites that meet any of the following provisions:</p> <ol style="list-style-type: none"> 1. Land within 100 feet of wetlands, including isolated wetlands or streams. Maintain or establish riparian buffer using native vegetation where possible. Bike and foot paths are allowed if at least 25 feet from the wetlands boundary. 2. Land on slope greater than 15%. 3. Land with prime soils, unique soils or soils of state significance per USDA designations. 4. Public parkland. 5. Land that is specifically identified as an existing habitat for any species on federal or state threatened or endangered lists. 6. Land that is within the Special Flood Hazard Areas (SFHA) as identified by FEMA on the Flood Insurance Rate Map. 7. Land outside the corporate limits of a municipality.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	<p>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.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	25	<p>2.3 Compact Development At a minimum, build to the density level provided in the criterion.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	5	<p>2.4 Compact Development Meet or exceed the density level provided in the criterion.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	<p>2.5 Proximity to Services Locate the project within a 0.25-mile walk distance of at least two; or a 0.5-mile walk distance of at least four, of the listed services.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	<p>2.6 Preservation of and Access to Open Space for Rural / Tribal / Small Towns For projects on a site at least 2 acres in size, set aside a minimum of 10% (minimum of 0.2 acre) of the total project acreage as non-paved open space for use by all occupants OR locate the project within a 0.25-mile walk distance of dedicated public non-paved open space that is a minimum of 0.75 acres.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	6 max	<p>2.7 Preservation of and Access to Open Space Set aside a percentage of non-paved open space for use by all occupants. 20% [2 points]; 30% [4 points]; 40% + written statement of preservation /conservation policy for set-aside land [6 points].</p>



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LOCATION + NEIGHBORHOOD FABRIC (continued)

<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	8 or 10	<p>2.8 Access to Public Transportation Locate projects within a 0.5-mile walk distance of transit services combined (bus, rail), constituting at least 20 or more transit rides per weekday, with some type of weekend ride option. [8 points]</p> <p>For projects that qualify as Rural / Tribal / Small Town, locate the project within a 5-mile distance of at least one of the following transit options: 1) vehicle share program; 2) dial-a-ride program; 3) employer vanpool; 4) park-and-ride; or 5) public-private regional transportation. [8 points]</p> <p>For an additional 2 points: Locate the project along dedicated bike trails or lanes that lead to transit services or stations (bus, rail and ferry) within 3 miles.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	2 to 8	<p>2.9 Improving Connectivity to the Community Improve access to community amenities through at least one of the transit, auto or biking mobility measures listed.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	5 max	<p>2.10 Passive Solar Heating /Cooling Design and build with passive solar design, orientation and shading that meet specified guidelines.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	10	<p>2.11 Grayfield or Brownfield Site or Adaptive Reuse Building Rehabilitate an existing structure that was not previously used as housing or locate the project on a grayfield or brownfield site.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	6	<p>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.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	4	<p>2.13 LEED for Neighborhood Development Certification</p>

SUBTOTAL OPTIONAL POINTS _____

3. SITE IMPROVEMENTS

<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	<p>3.1 Environmental Remediation Conduct an environmental site assessment to determine whether any hazardous materials are present on-site; mitigate any found.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	<p>3.2 Erosion and Sedimentation Control Implement EPA's Best Management Practices for Construction Site Stormwater Runoff Control, or local requirements, whichever is more stringent.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	<p>3.3 Low-Impact Development Projects located on greenfields must meet the list of low-impact development criteria.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	<p>3.4 Landscaping If providing plantings, all should be native or adapted to the region, appropriate to the site's soil and microclimate, and none of the new plants is an invasive species. Reseed or xeriscape all disturbed areas.</p>



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SITE IMPROVEMENTS (continued)

<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	3.5 Surface Stormwater Management Retain, infiltrate and /or harvest the first 1.25 inch of rain that falls for a 24-hour period.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	1	3.6 Reducing Heat-Island Effect: Paving Use light-colored, high-albedo materials and/or an open-grid pavement, with a minimum solar reflectance of 0.3, over at least 50% of the site's hardscaped area. Locate and plant appropriate overstory trees to provide shade for both heat island reduction and user comfort; one shade tree per 10 parking spaces minimum.

_____ SUBTOTAL OPTIONAL POINTS

4. WATER CONSERVATION

<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	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.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	6 max	4.2 Advanced Water Conservation Reduce water consumption either by installing water-conserving fixtures in all units and all common space bathrooms with the following specifications: Toilets: WaterSense-labeled and 1.1 gpf [1 point]; Showerheads: WaterSense-labeled and 1.5 gpm [1 point]; Kitchen faucets: 1.5 gpm and lav faucets: WaterSense-labeled and 0.5 gpm [1 point] OR Reduce total indoor water consumption by at least 30% compared to the baseline indoor water consumption chart, through a combination of your choosing. [6 points maximum]
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	4	4.3 Leaks and Water Metering Conduct pressure-loss tests and visual inspections to determine if there are any leaks; fix any leaks found; and meter or submeter each dwelling unit with a technology capable of tracking water use. Separately meter outdoor water consumption.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	4	4.4 Efficient Plumbing Layout and Design To minimize water loss from delivering hot water, the hot water delivery system shall store no more than 0.5 gallons of water in any piping/manifold between the hot water source and any hot water fixture.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	6 max	4.5 Water Reuse Harvest, treat, and reuse rainwater and/or greywater to meet a portion of the project's total water needs: 10% reuse [3 points]; 20% reuse [4 points]; 30% reuse [5 points]; 40% reuse [6 points]
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	4.6 No Irrigation and Water Reuse if Irrigation is Utilized No irrigation allowed unless a system already exists on site. If an existing irrigation system is used, install an efficient irrigation or water reuse system per the guidelines

_____ SUBTOTAL OPTIONAL POINTS



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5. ENERGY EFFICIENCY

<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	5.1 Building Performance Requirements Follow the Air Barrier and Insulation Inspection Component Guide and Energy Performance Table for measures applicable to your project.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	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.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	5.1b Building Performance Standard (New Construction: mid-rise and high-rise multifamily, with some exceptions) Certify the project through the ENERGY STAR Multifamily High-Rise program (MFHR) OR follow the combined MFHR and LEED Commissioning Path outlined in the criterion. <i>Exception:</i> Multifamily buildings that are four or five stories, in which all dwelling units have their own heating, cooling and hot water systems, should comply with Criterion 5.1 and certify each dwelling unit per ENERGY STAR Certified New Homes.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	5.1c Building Performance Standard (Substantial and Moderate Rehab: single-family and low-rise multifamily) For each dwelling unit, achieve a HERS Index score of 85 or less. <i>Exception:</i> Substantial rehabs of buildings with walls made only of brick/masonry that are three stories or fewer and built before 1980, as well as moderate rehabs of buildings that are three stories or fewer and built before 1980, are permitted to instead achieve a HERS Index score of 100 or less for each dwelling unit.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	5.1d Building Performance Standard (Substantial and Moderate Rehab: mid-rise, high-rise, commercial and mixed use) Follow the Energy Performance Requirements in Criterion 5.1 and demonstrate that the energy performance of the completed building will be equivalent to ASHRAE 90.1-2013 using an energy model created by a qualified energy services provider per Appendix G.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	5.1e Building Performance Standard (New Construction: commercial and mixed use) Follow the Energy Performance Requirements in Criterion 5.1 and demonstrate that the energy performance of the completed building will be 10 percent or more better than ASHRAE 90.1-2013 by using an energy model created by a qualified energy services provider per Appendix G.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	5 to 12	5.2a Additional Reductions in Energy Use Design and construct a building that is projected to be at least 5% more efficient than what is required of the project by Criteria 5.1a–e. (Projects receiving points in Criterion 5.2a may not receive points per Criterion 5.2b)
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	12	5.2b Advanced Certification: Nearing Net Zero Certify the project in a program that requires advanced levels of building envelope performance such as PHIUS, Living Building Challenge and/or DOE Zero Energy Ready Home. (Projects receiving points in Criterion 5.2b may not receive points per Criterion 5.2a)



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ENERGY EFFICIENCY (continued)

<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	5.3 Sizing of Heating and Cooling Equipment Size and select heating and cooling equipment in accordance with the Air Conditioning Contractors of America (ACCA) Manuals D, J, and S or ASHRAE handbooks.																								
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	5.4 ENERGY STAR Appliances If providing appliances, install ENERGY STAR clothes washers, dryers, 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.																								
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	5.5 Lighting Follow the guidance for high-efficacy lighting controls and other characteristics for all permanently installed lighting fixtures in project dwelling units, common spaces and exterior																								
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	6	5.6 Electricity Meter Install individual or submetered electric meters for all dwelling units.																								
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	4	5.7a Photovoltaic / Solar Hot Water Ready Orient, design, engineer, wire and /or plumb the development to accommodate installation of photovoltaic (PV) or solar hot water system in the future.																								
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	10 max	<p>5.7b Renewable Energy Install photovoltaic (PV) panels or other electric-generating renewable energy source to provide a specified percentage of the project’s estimated total energy demand or water heating energy demand. (Projects may earn points through Criterion 5.7b or 5.8b, but not both.)</p> <table border="1"> <thead> <tr> <th></th> <th>5%</th> <th>10%</th> <th>20%</th> <th>30%</th> <th>40%</th> </tr> </thead> <tbody> <tr> <td>Single-story / Single-family</td> <td>—</td> <td>—</td> <td>6</td> <td>8</td> <td>10</td> </tr> <tr> <td>2 to 3 stories</td> <td>—</td> <td>6</td> <td>8</td> <td>10</td> <td>—</td> </tr> <tr> <td>4 stories or more</td> <td>6</td> <td>8</td> <td>10</td> <td>—</td> <td>—</td> </tr> </tbody> </table>		5%	10%	20%	30%	40%	Single-story / Single-family	—	—	6	8	10	2 to 3 stories	—	6	8	10	—	4 stories or more	6	8	10	—	—
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4 stories or more	6	8	10	—	—																					
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	8	5.8a Resilient Energy Systems: Floodproofing Conduct floodproofing, including perimeter floodproofing (barriers /shields), of lower floors. Design and install building systems as specified by the full criterion so that the operation of those systems will not be grossly affected in case of a flood.																								
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	4 to 8	5.8b Resilient Energy Systems: Islandable Power Provide emergency power through an islandable photovoltaic (PV) system or an efficient and portable generator that will offer at least limited electricity for critical circuits during power outages per one of the three options listed. (Projects may earn points through Criterion 5.7b or 5.8b, but not both.)																								
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	5.9 Advanced Framing Follow advanced framing (optimum value engineering) best practices for all framing where possible.																								
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	5	5.10 Advanced Metering Site, design, engineer, and wire the development to accommodate installation of smart meters and /or be able to interface with smart grid systems in the future.																								

SUBTOTAL OPTIONAL POINTS



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6. MATERIALS

<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	6.1 Low/ No VOC Paints, Coatings and Primers All interior paints and primers must have VOC levels, in grams per liter, less than or equal to the thresholds established by South Coast Air Quality Management District (SCAQMD) Rule 1113.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	6.2 Low/ No VOC Adhesives and Sealants All adhesives and sealants (including caulks) must have VOC levels, in grams per liter, less than or equal to the thresholds established by the South Coast Air Quality Management District Rule 1168.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	3 max	6.3 Recycled Content Material Incorporate building materials that are composed of at least 25% post-consumer recycled content or at least 50% post-industrial recycled content. [1 point] Building materials that make up at least 75% of their project component each receive 1 point.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	4 max	6.4 Regional Materials Use products that were extracted, processed and manufactured within 500 miles of the project for a minimum of 50%, based on cost, of the building materials' value. Select any or all of these options (each material can qualify for 1 point): <ul style="list-style-type: none"> · Framing materials · Exterior materials (e.g., siding, masonry, roofing) · Flooring materials · Concrete/cement and aggregate material · Drywall/interior sheathing materials
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	1	6.5 Certified, Salvaged and Engineered Wood Products For at least 25% of all structural wood products, by cost or value, commit to using either FSC-certified, salvaged products or engineered framing materials without urea formaldehyde.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	6.6 Composite Wood Products that Emit Low/No Formaldehyde All composite wood products must be certified as compliant with California 93120 Phase 2 OR, if using a composite wood product that does not comply with California 93120 Phase 2, all exposed edges and sides must be sealed with low-VOC sealants, per Criterion 6.2.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	6.7a Environmentally Preferable Flooring Do not install carpets in building entryways, laundry rooms, bathrooms, kitchens/ kitchenettes, utility rooms or any rooms built on foundation slabs. Where installed, all carpet products must meet the Carpet and Rug Institute's Green Label or Green Label Plus certification for carpet, pad and carpet adhesives. Any hard surface flooring products must be either ceramic tile or solid unfinished hardwood floors, or meet the Scientific Certification System's FloorScore program criteria (including pre-finished hardwood flooring).
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	6	6.7b Environmentally Preferable Flooring: Throughout Building Use non-vinyl, non-carpet floor coverings throughout each building in the project.



M = MANDATORY
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MATERIALS (continued)

<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	<p>6.8 Mold Prevention: Surfaces Use materials that have durable, cleanable surfaces throughout bathrooms, kitchens and laundry rooms. Materials installed in these rooms should not be prone to deterioration due to moisture intrusion or encourage the growth of mold.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	<p>6.9 Mold Prevention: Tub and Shower Enclosures Use moisture-resistant backing materials such as cement board, fiber cement board or equivalent per ASTM #D3273 behind tub/shower enclosures. Projects using a one-piece fiberglass tub/shower enclosure are exempt from this requirement.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	12 max	<p>6.10 Asthmagen-Free materials Do not install products that contain ingredients that are known to cause or trigger asthma. Key products to avoid are:</p> <ul style="list-style-type: none"> • <i>Insulation:</i> Do not use spray polyurethane foam (SPF) or formaldehyde-containing fiberglass batts. [4 points] • <i>Flooring:</i> Do not use flexible vinyl (PVC) roll or sheet flooring or carpet-backed with vinyl with phthalates. Do not use fluid applied finish floors. [4 points] • <i>Wall coverings:</i> Do not use wallpaper made from vinyl (PVC) with phthalates or site-applied high-performance coatings that are epoxy or polyurethane based. [4 points] • <i>Composite wood:</i> Use only ULEF products for cabinetry, subflooring and other interior composite wood uses. [4 points]
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	5	<p>6.11 Reduced Heat-Island Effect: Roofing Use an ENERGY STAR–certified roofing product for 100% of the roof area OR install a “green” (vegetated) roof for at least 50% of the roof area and ENERGY STAR–certified roofing product for the remainder of the roof area.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M or 6 max	<p>6.12 Construction Waste Management Commit to following 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.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	3	<p>6.13 Recycling Storage Provide separate bins for the collection of trash and recycling for each dwelling unit or office and all shared and all shared community rooms (if applicable).</p> <p>Additionally, in multifamily buildings, provide at least one easily accessible, permanent and dedicated indoor area for the collection and storage of materials for recycling. In single-family homes, points will be accrued only if curb-side recycling pickup is available.</p> <p>Collected materials should include, at a minimum, paper, cardboard, glass, metals and plastics.</p>

_____ SUBTOTAL OPTIONAL POINTS



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7. HEALTHY LIVING ENVIRONMENT

<p><input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE</p> <p><input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE</p>	<p>M 7.1 Ventilation <i>New Construction and Substantial Rehab</i></p> <p>12 <i>Moderate Rehab</i> max</p> <p>Residential Projects For each dwelling unit, in full accordance with ASHRAE 62.2-2013, install a local mechanical exhaust system in each bathroom [4 points], a local mechanical exhaust system in each kitchen [4 points], and a whole-house mechanical ventilation system [4 points]. For each multifamily building of four stories and more, in full accordance with ASHRAE 62.1-2013, install a mechanical ventilation system for all hallways and common spaces [3 points]. For all project types, in addition to the above requirements:</p> <ul style="list-style-type: none"> · All systems and associated ductwork must be installed per manufacturer's recommendations. · All individual bathroom fans must be ENERGY STAR labeled, wired to turn on with the light switch or separate switch, and equipped with a humidistat sensor, timer or other control (e.g., occupancy sensor, delay off switch, ventilation controller). · If using central ventilation systems with rooftop fans, each rooftop 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. <p>Non-Residential Projects Comply with ASHRAE 62.1-2013.</p>
<p><input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE</p>	<p>M 7.2 Clothes Dryer Exhaust Clothes dryers must be exhausted directly to the outdoors using rigid-type ductwork (except for condensing dryers, which must be plumbed to a drain).</p>
<p><input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE</p>	<p>M 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.</p> <p>In Substantial and Moderate 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 initial combustion safety testing per the given guidelines.</p> <p>Install one hard-wired carbon monoxide (CO) alarm with battery backup function for each sleeping zone, placed per National Fire Protection Association (NFPA) 720.</p>



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HEALTHY LIVING ENVIRONMENT (continued)

<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	9 or 11	<p>7.4 Elimination of Combustion Within the Conditioned Space No combustion equipment may be used for cooking (to include, but not limited to ranges, cooktops, stoves, ovens) as part of the building project [9 points]</p> <p style="text-align: center;">OR</p> <p>no combustion equipment may be used as part of the building project [11 points].</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	<p>7.5 Vapor Retarder Strategies Install vapor barriers that meet specified criteria appropriate for the foundation type.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	<p>7.6 Water Drainage (For all New Construction and those Rehab projects that include replacing particular assemblies) Provide drainage of water away from walls, windows and roofs by implementing the list of techniques.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	<p>7.7 Mold Prevention: Water Heaters Provide adequate drainage for water heaters that includes drains or catch pans with drains piped to the exterior of the dwelling.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	<p>7.8 Radon Mitigation 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 and mitigate per the specified protocols.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	<p>7.9 Garage Isolation</p> <ul style="list-style-type: none"> · Provide a continuous air barrier between the conditioned space and any garage space to prevent the migration of any contaminants into the occupied 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 in a garage. · Fix all connecting doors between conditioned space and garage with gaskets or otherwise make substantially airtight with weather stripping. · 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) 720.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	<p>7.10 Integrated Pest Management Seal all wall, floor, and joint penetrations with low-VOC caulking or other appropriate nontoxic sealing methods to prevent pest entry.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	9	<p>7.11a Beyond ADA: Universal Design (New Construction) Design a minimum of 15% of the dwelling units (no fewer than one) in accordance with ICC /ANSI A117.1, Type A, Fully Accessible guidelines. Design the remainder of the ground-floor units and elevator-reachable units in accordance with ICC /ANSI A117.1, Type B.</p>



M = MANDATORY
= OPTIONAL POINTS

HEALTHY LIVING ENVIRONMENT (continued)

<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	7 or 9	<p>7.11b Beyond ADA: Universal Design (Substantial and Moderate Rehab) Design a minimum of 10% of the dwelling units (one, at minimum) in accordance with ICC /ANSI A117.1, Type A, Fully Accessible guidelines. [7 points]</p> <p><i>For an additional 2 points:</i> Design the remainder of the ground-floor units and elevator-reachable units with accessible unit entrances designed to accommodate people who use a wheelchair.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	<p>7.12 Active Design: Promoting Physical Activity Within the Building Situate at least one building stairway per the criterion to encourage use</p> <p style="text-align: center;">OR</p> <p>emphasize at least one strategy inside the building designed to increase frequency and duration of physical activity per the criterion.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	10	<p>7.13 Active Design: Staircases and Building Circulation A staircase must be accessible and visible from the main lobby as well as visible within a 25-foot walking distance from any edge of lobby. Ensure that no turns or obstacles prevent visibility of or accessibility to the qualifying staircase from the lobby, and that the staircase is encountered before or at the same time as the elevators.</p> <p>From the corridor, accessible staircases should be made visible by: Providing transparent glazing of at least 10 square feet (1 square meter) at all stair doors or at a side light OR providing magnetic door holds on all doors leading to the stairs OR removing door enclosures / vestibules.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	9	<p>7.14 Interior and Outdoor Activity Spaces for Children and Adults Provide an 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.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	10	<p>7.15 Smoke-Free Building Implement and enforce a no-smoking policy in all common and individual living areas, and within a 25-foot perimeter around the exterior of all residential projects.</p>

_____ SUBTOTAL OPTIONAL POINTS



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8. OPERATIONS, MAINTENANCE + OCCUPANT ENGAGEMENT

<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	<p>M 8.1 Building Operations & Maintenance (O&M) Manual and Plan Develop a manual with thorough building operations and maintenance 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.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	<p>M 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 housing and services throughout an emergency and cover a range of topics, including but not limited to:</p> <ul style="list-style-type: none"> · communication plans for staff and occupants · useful contact information for public utility and other service providers · infrastructure and building “shutdown” procedures
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	<p>M 8.3 Occupant Manual Provide a guide for building tenant 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.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	<p>M 8.4 Occupant and Property Staff Orientation Provide a comprehensive walk-through and orientation for all occupants, property manager(s) and buildings operations staff. Use the appropriate manuals (see Criteria 8.1, 8.2, 8.3) as the base of the curriculum, and review the project’s green features, operations and maintenance procedures, and emergency protocols.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	<p>M 8.5 Project Data Collection and Monitoring System: 100% Non-Residential, 15% - 50% Residential / Mixed Use Collect and monitor project energy and water performance data for 100% of commercial units and 15% - 50% of residential units depending on total number of units. Allow IEDA access to this data.</p>

_____ SUBTOTAL OPTIONAL POINTS

_____ **TOTAL OPTIONAL POINTS**