

**LEED Green Associate**

**Activity #4 – Sustainable Sites (SS)**

Before completing this Activity Read: GA02 - Pgs. 137-138 & GA09 – Pgs. 31-50 (see lorisweb.com)

Note the following abbreviations are used in this activity:

- NC LEED BD+C: New Construction and Major Renovation
- CS LEED BD+C: Core and Shell Development
- S LEED BD+C: Schools
- R LEED BD+C: Retail
- DC LEED BD+C: Data Centers
- WDC LEED BD+C: Warehouses and Distribution Centers
- HOS LEED BD+C: Hospitality
- HC LEED BD+C: Healthcare

Although the LEED BD+C reference guide does not number the LEED prerequisites and credits, for this exercise they have been numbered in the order presented in the credit category.

**Fill-In, Multiple Choice, Matching**

1. Test your knowledge of how well you know the names of the credits for the Sustainable Sites (SS) credit category:

<b>LEED BD+C: NC, CS, S, R, DC, WDC, HOS, HC</b>	
Credit	Name
P1	
C1	
C2	
C3	
C4	
C5	
C6	
<b>LEED BD+C: Core and Shell Development</b>	
C7	
<b>LEED BD+C: Schools</b>	
P2	
C7	
C8	
<b>LEED BD+C: Healthcare</b>	
P2	
C7	
C8	

2. Match the intent shown below to the prerequisite or credit:

**LEED BD+C: NC, CS, S, R, DC, WDC, HOS, HC**

Credit	ANS
SS – P1	
SS – C1	
SS – C2	
SS – C3	
SS – C4	
SS – C5	
SS – C6	
<b>LEED BD+C: CS</b>	
SS – C7	
<b>LEED BD+C: S</b>	
SS – P2	
SS – C7	
SS – C8	
<b>LEED BD+C: HC</b>	
SS – P2	
SS – C7	
SS – C8	

	INTENT
A	To assess site conditions before design to evaluate sustainable options and inform related decisions about site design.
B	To protect the health of vulnerable populations by ensuring that the site is assessed for environmental contamination and that any environmental contamination has been remediated.
C	To provide patients and staff with the health benefits associated with direct access to the natural environment.
D	To minimize effects on microclimates and human and wildlife habitats by reducing heat islands.
E	To reduce runoff volume and improve water quality by replicating the natural hydrology and water balance of the site, based on historical conditions and undeveloped ecosystems in the region.
F	To integrate the school with the community by sharing the building and its playing fields for nonschool events and functions.
G	To increase night sky access, improve nighttime visibility, and reduce the consequences of development for wildlife and people.
H	To conserve existing natural areas and restore damaged areas to provide habitat and promote biodiversity.
I	To educate tenants in implementing sustainable design and construction features in their tenant improvement build-outs.
J	To provide patients, staff, and visitors with the health benefits of the natural environment by creating outdoor places of respite on the healthcare campus.
K	To reduce pollution from construction activities by controlling soil erosion, waterway sedimentation, and airborne dust.
L	To create exterior open space that encourages interaction with the environment, social interaction, passive recreation, and physical activities.
M	To ensure that the sustainable site benefits achieved by the project continue, regardless of future changes in programs or demographics.

3. Rainwater runoff carries such pollutants as \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and lawn \_\_\_\_\_ directly to streams and rivers, where they contribute to \_\_\_\_\_ and harm aquatic ecosystems and species.

4. Abbreviation        Name  
BUG                        \_\_\_\_\_

5. SS Prerequisite Construction Activity Pollution Prevention requirements:  
Create and implement an erosion and sedimentation control plan for all construction activities associated with the project. The plan must conform to the erosion and sedimentation requirements of the \_\_\_\_\_  
or \_\_\_\_\_ equivalent, whichever is more \_\_\_\_\_. Projects must apply the \_\_\_\_\_ regardless of size. The plan must describe the measures implemented.

6. Abbreviation        Name  
ESC                        \_\_\_\_\_  
  
CGP                        \_\_\_\_\_

7. List the three objectives that the Erosion and Sedimentation (ESC) plan must accomplish:

- 1.
- 2.
- 3.

8. SS Prerequisite Environmental Site Assessment applies to \_\_\_\_\_ and \_\_\_\_\_.

9. SS Prerequisite Environmental Site Assessment requires:  
Conduct a Phase \_\_\_\_ Environmental Site Assessment as described in ASTM \_\_\_\_\_ (or a local equivalent) to determine whether environmental contamination \_\_\_\_\_ at the site. If contamination is \_\_\_\_\_, conduct a Phase \_\_\_\_\_ Environmental Site Assessment as described in \_\_\_\_\_ (or a local equivalent).

If a site is \_\_\_\_\_, \_\_\_\_\_ the site to meet local, state, or national environmental protection agency region \_\_\_\_\_ (unrestricted) standards, whichever are most \_\_\_\_\_.

10. Abbreviation        Name  
ESA                        \_\_\_\_\_

11. SS Credit Site Assessment requires:  
Complete and document a \_\_\_\_\_ or \_\_\_\_\_ that includes the following information:

- \_\_\_\_\_ . Contour mapping, unique topographic features, slope stability risks.
- \_\_\_\_\_ . Flood hazard areas, delineated wetlands, lakes, streams, shorelines, rainwater collection and reuse opportunities, TR-55 initial water storage capacity of the site (or local equivalent for projects outside the U.S.).
- \_\_\_\_\_ . Solar exposure, heat island effect potential, seasonal sun angles, prevailing winds, monthly precipitation and temperature ranges.
- \_\_\_\_\_ . Primary vegetation types, greenfield area, significant tree mapping, threatened or endangered species, unique habitat, invasive plant species.

\_\_\_\_\_. Natural Resources Conservation Service soils delineation, U.S. Department of Agriculture prime farmland, healthy soils, previous development, disturbed soils (local equivalent standards may be used for projects outside the U.S.).

\_\_\_\_\_. Views, adjacent transportation infrastructure, adjacent properties, construction materials with existing recycle or reuse potential.

\_\_\_\_\_. Proximity of vulnerable populations, adjacent physical activity opportunities, proximity to major sources of air pollution.

The survey or assessment should demonstrate the relationships between the site features and topics listed above and how these features influenced the project \_\_\_\_\_; give the reasons for not addressing any of those topics.

12. SS Credit Site Development – Protect or Restore Habitat requirements:

Preserve and protect from all development and construction activity \_\_\_\_\_ of the \_\_\_\_\_ area on the site (if such areas exist).

AND

Option 1. On-Site Restoration (2 points except Healthcare, 1 point Healthcare)

Using \_\_\_\_\_ or \_\_\_\_\_ vegetation, restore \_\_\_\_\_ (\_\_\_\_\_ the building footprint) of all portions of the site identified as \_\_\_\_\_ developed. Projects that achieve a density of \_\_\_\_\_ floor-area ratio may include vegetated \_\_\_\_\_ surfaces in this calculation if the plants are native or adapted, provide \_\_\_\_\_, and promote biodiversity.

Restore all disturbed or compacted soils that will be \_\_\_\_\_ within the project's \_\_\_\_\_ to meet the following requirements:

Soils (\_\_\_\_\_ and \_\_\_\_\_) must be reused for functions comparable to their original function.

Imported \_\_\_\_\_ or soil blends designed to serve as topsoil may not include the following: soils defined regionally by the Natural Resources Conservation Service web soil survey (or local equivalent for projects outside the U.S.) as \_\_\_\_\_ farmland, \_\_\_\_\_ farmland, or farmland of statewide or local importance;

or soils from other \_\_\_\_\_ sites, unless those soils are a byproduct of a construction process.

Restored soil must meet the criteria of reference soils in categories 1–3 and meet the criteria of either category 4 or 5:

1. \_\_\_\_\_ matter;
2. \_\_\_\_\_;
3. \_\_\_\_\_ rates;
4. soil \_\_\_\_\_ function; and
5. soil \_\_\_\_\_ characteristics.

Project teams may \_\_\_\_\_ vegetated landscape areas that are constructed to accommodate \_\_\_\_\_ from the vegetation and soils requirements, provided all such rainwater infiltration areas are treated consistently with SS Credit Rainwater Management.

Schools only:

Dedicated \_\_\_\_\_ fields that are \_\_\_\_\_ for athletic uses are \_\_\_\_\_ from the soil restoration criteria. These areas may \_\_\_\_\_ count toward the minimum required area.

OR

Option 2. Financial Support (1 point)

Provide \_\_\_\_\_ support equivalent to at least \_\_\_\_\_ per square foot (US\$4 per square meter) for the total site area (\_\_\_\_\_ the building footprint).

Financial support must be provided to a \_\_\_\_\_ or \_\_\_\_\_ recognized land \_\_\_\_\_ or \_\_\_\_\_ organization within the same EPA Level III ecoregion or the project's state (or within \_\_\_\_\_ miles of the project [160 kilometers] for projects outside the U.S.). For U.S. projects, the land trust must be accredited by the \_\_\_\_\_.

13. Restoration must use \_\_\_\_\_ or \_\_\_\_\_ vegetation.

14. SS Credit Open Space requirements:

Provide outdoor space greater than or equal to \_\_\_\_\_ of the total site area (including building footprint). A minimum of \_\_\_\_\_ of that outdoor space must be vegetated (turf grass does not count as vegetation) or have overhead vegetated canopy.

The outdoor space must be \_\_\_\_\_ accessible and be one or more of the following:

- a \_\_\_\_\_-oriented paving or turf area with physical site elements that accommodate outdoor social activities;
- a \_\_\_\_\_-oriented paving or turf area with physical site elements that encourage physical activity;
- a \_\_\_\_\_-space with a diversity of vegetation types and species that provide opportunities for year-round visual interest;
- a \_\_\_\_\_-space dedicated to \_\_\_\_\_-gardens or urban food production; \_\_\_\_\_ or \_\_\_\_\_ habitat that meets the criteria of SS Credit Site Development—Protect or Restore Habitat and also includes elements of \_\_\_\_\_ interaction.

For projects that achieve a density of \_\_\_\_\_ floor-area ratio (FAR), and are \_\_\_\_\_ accessible, \_\_\_\_\_ or \_\_\_\_\_ vegetated roofs can be used toward the minimum \_\_\_\_\_ vegetation requirement, and qualifying roof-based physically accessible paving areas can be used toward credit compliance.

\_\_\_\_\_ or naturally designed \_\_\_\_\_ may count as open space if the side slope gradients average \_\_\_\_\_ (vertical : horizontal) or less and are \_\_\_\_\_.

For projects that are part of a multitenant complex only

Open space can be either \_\_\_\_\_ to the building or at \_\_\_\_\_ location in the site \_\_\_\_\_ plan. The open space may be at another master plan development site as long as it is \_\_\_\_\_ from development. If the open space is not adjacent to the building, provide documentation showing that the requirements have been met and the land is in a natural state or has been returned to a natural state and \_\_\_\_\_ for the \_\_\_\_\_ of the building.

15. SS Credit Rainwater Management requirements:

Option 1. Percentile of Rainfall Events

Path 1. \_\_\_\_\_th Percentile (\_\_\_ points except Healthcare, 1 point Healthcare)

In a manner best replicating \_\_\_\_\_ site hydrology processes, manage on site the \_\_\_\_\_ from the developed site for the \_\_\_\_\_th percentile of \_\_\_\_\_ or local rainfall events using \_\_\_\_\_ (LID) and \_\_\_\_\_.

Use \_\_\_\_\_ rainfall data and the methodology in the U.S. Environmental Protection Agency (EPA) Technical Guidance on Implementing the Stormwater Runoff Requirements for Federal Projects under Section 438 of the Energy Independence and Security Act to determine the \_\_\_\_\_th percentile amount.

Or

Path 2. \_\_\_\_\_th Percentile (\_\_\_ points except Healthcare, 2 points Healthcare)

Achieve Path 1 but for the \_\_\_\_\_th percentile of regional or local rainfall events, using LID and green infrastructure.

Or

Path 3. \_\_\_\_\_ Lot Line projects only— \_\_\_\_\_th Percentile (3 points except Healthcare, 2 points Healthcare)

The following requirement applies to zero lot line projects in \_\_\_\_\_ areas with a minimum density of \_\_\_\_\_ FAR. In a manner best replicating natural site hydrology processes, manage on site the runoff from the developed site for the \_\_\_\_\_th percentile of regional or \_\_\_\_\_ rainfall events, using LID and green infrastructure.

OR

Option 2. Natural Land Cover Conditions (3 points except Healthcare, 2 points Healthcare)

Manage on site the \_\_\_\_\_ increase in runoff \_\_\_\_\_ from the \_\_\_\_\_ land cover condition to the \_\_\_\_\_ condition.

Projects that are part of a multitenant complex only

The credit requirements may be met using a \_\_\_\_\_ approach affecting the defined project site that is within the \_\_\_\_\_ plan boundary. Distributed techniques based on a \_\_\_\_\_ approach are then required.

16. Abbreviation	Name
GI	_____
LID	_____

17. SS Credit Heat Island Reduction requirements:

Choose one of the following options:

Option 1. Nonroof and Roof (2 points except Healthcare, 1 point Healthcare)

Meet the following criterion:

Complete the Equation:

Area of Nonroof Measures	+	Area of High- Reflectance Roof	+	Area of Vegetated Roof	+	≥	Total Site Paving Area	+	Total Roof Area
_____		_____		_____					

Alternatively, an \_\_\_\_\_ and \_\_\_\_\_ weighted average approach may be used to calculate compliance.

Use any combination of the following strategies.

Nonroof Measures

Use the existing plant material or install plants that provide \_\_\_\_\_ over paving areas (including playgrounds) on the site within \_\_\_\_\_ years of planting. Install vegetated \_\_\_\_\_. Plants must be in place at the time of \_\_\_\_\_ permit and cannot include \_\_\_\_\_ turf.

Provide shade with \_\_\_\_\_ covered by \_\_\_\_\_ generation systems, such as solar thermal \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_ turbines.

Provide shade with \_\_\_\_\_ devices or structures that have a \_\_\_\_\_ aged solar reflectance (SR) value of at least \_\_\_\_\_. If three-year aged value information is not available, use materials with an initial SR of at least \_\_\_\_\_ at installation.

Provide \_\_\_\_\_ with vegetated structures.

Use \_\_\_\_\_ materials with a three-year aged solar reflectance (SR) value of at least \_\_\_\_\_. If three-year aged value information is not available, use materials with an initial SR of at least \_\_\_\_\_ at installation.

Use an \_\_\_\_\_ pavement system (at least \_\_\_\_\_ unbound).

#### High-Reflectance Roof

Use roofing materials that have an \_\_\_\_\_ equal to or greater than the values in Table 1. Meet the three-year aged SRI value. If three-year aged value information is not available, use materials that meet the initial SRI value.

Complete Table 1. Minimum solar reflectance index value, by roof slope

Table 1. Minimum solar reflectance index value, by roof slope			
	Slope	Initial SRI	3-year aged SRI
Low-sloped roof	≤ 2:12		
Steep-slope roof	> 2:12		

#### Vegetated Roof

Install a \_\_\_\_\_ roof.

OR

#### Option 2. Parking under Cover (1 point)

Place a minimum of \_\_\_\_\_ of parking spaces under \_\_\_\_\_. Any roof used to shade or cover parking must (1) have a three-year aged SRI of at least \_\_\_\_\_ (if three-year aged value information is not available, use materials with an initial SRI of at least \_\_\_\_\_ at installation), (2) be a \_\_\_\_\_ roof, or (3) be covered by \_\_\_\_\_, such as solar thermal collectors, photovoltaics, and wind turbines.

18. List examples of a project site's hardscape:

- 1.
- 2.
- 3.
- 4.

19. Read about extensive and intensive green roofs here, <http://www.greenrooftechnology.com/green-roof-types>

20. SS Credit Light Pollution Reduction requirements:

Meet \_\_\_\_\_ and light \_\_\_\_\_ requirements, using either the backlight-uplight-glare (\_\_\_\_\_) method (Option 1) or the \_\_\_\_\_ method (Option 2). Projects may use different options for \_\_\_\_\_ and light \_\_\_\_\_.

Meet these requirements for all \_\_\_\_\_ luminaires located inside the project \_\_\_\_\_ (except those listed under “Exemptions”), based on the following:  
 the photometric characteristics of each luminaire when mounted in the same \_\_\_\_\_ and \_\_\_\_\_ as specified in the project design; and  
 the lighting \_\_\_\_\_ of the project property (at the time construction begins). Classify the project under \_\_\_\_\_ lighting zone using the lighting zones definitions provided in the Illuminating Engineering Society and International Dark Sky Association (IES/IDA) Model Lighting Ordinance (MLO) User Guide.

Additionally, meet the internally illuminated signage requirement.

Abbreviation	Name
BUG	_____
MLO	_____

**Uplight**

**OPTION 1. BUG Rating Method**

Do not exceed the following luminaire uplight ratings, based on the specific light source installed in the luminaire, as defined in \_\_\_\_\_, Addendum A.

Complete Table 1. Maximum uplight ratings for luminaires

Table 1. Maximum uplight ratings for luminaires	
MLO lighting zone	Luminaire uplight rating

OR

**OPTION 2. Calculation Method**

Do not exceed the following percentages of total \_\_\_\_\_ emitted above \_\_\_\_\_.

Complete Table 2. Maximum percentage of total lumens emitted above horizontal, by lighting zones

Table 2. Maximum percentage of total lumens emitted above horizontal, by lighting zones	
MLO lighting zone	Maximum allowed percentage of total luminaire lumens emitted above horizontal

AND



Light Trespass

OPTION 1. BUG Rating Method

Do not exceed the following luminaire \_\_\_\_\_ and \_\_\_\_\_ ratings (based on the specific light source installed in the luminaire), as defined in IES TM-15-11, Addendum A, based on the \_\_\_\_\_ location and \_\_\_\_\_ from the lighting \_\_\_\_\_.

Complete Table 3. Maximum backlight and glare ratings

Table 3. Maximum backlight and glare ratings					
	MLO lighting zone				
Luminaire mounting					
	<b>Allowed backlight ratings</b>				
> __ mounting heights from lighting boundary	B1	B3	B4	B5	B5
__ to __ mounting heights from lighting boundary and properly oriented	B1	B2	B3	B4	B4
____ to __ mounting height to lighting boundary and properly oriented	B0	B1	B2	B3	B3
< ____ mounting height to lighting boundary and properly oriented	B0	B0	B0	B1	B2
	<b>Allowed glare ratings</b>				
Building-mounted > __ mounting heights from any lighting boundary	G0	G1	G2	G3	G4
Building-mounted __-__ mounting heights from any lighting boundary	G0	G0	G1	G1	G2
Building-mounted ____ to __ mounting heights from any lighting boundary	G0	G0	G0	G1	G1
Building-mounted < ____ mounting heights from any lighting boundary	G0	G0	G0	G0	G1
_____ other luminaires	G0	G1	G2	G3	G4

The \_\_\_\_\_ boundary is located at the \_\_\_\_\_ lines of the property, or properties, that the LEED \_\_\_\_\_ occupies.

The lighting boundary can be \_\_\_\_\_ under the following conditions:

When the property line is adjacent to a \_\_\_\_\_ area that is a \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, or \_\_\_\_\_ lot, the lighting boundary may be moved to \_\_\_\_\_ feet (1.5 meters) beyond the property line.

When the property line is \_\_\_\_\_ to a \_\_\_\_\_ street, \_\_\_\_\_, or \_\_\_\_\_ corridor, the lighting boundary may be moved to the \_\_\_\_\_ line of that street, alley, or corridor.

When there are \_\_\_\_\_ properties owned by the \_\_\_\_\_ entity that are \_\_\_\_\_ to the property, or properties, that the LEED project is within and have the same or higher \_\_\_\_\_ lighting zone designation as the LEED project, the lighting boundary may be \_\_\_\_\_ to include those properties.

Orient all luminaires less than \_\_\_\_\_ mounting heights from the lighting boundary such that the \_\_\_\_\_ points toward the nearest lighting boundary line. Building-mounted luminaires with the backlight oriented toward the building are \_\_\_\_\_ from the backlight rating requirement.

OR

**OPTION 2. Calculation Method**

Do not exceed the following \_\_\_\_\_ illuminances at the lighting boundary (use the definition of lighting boundary in Option 1). Calculation points may be no more than \_\_\_\_\_ feet (1.5 meters) apart. Vertical illuminances must be calculated on vertical planes running \_\_\_\_\_ to the lighting boundary, with the \_\_\_\_\_ to each plane oriented toward the \_\_\_\_\_ and \_\_\_\_\_ to the lighting boundary, extending from grade level to \_\_\_\_\_ feet (10 meters) above the height of the \_\_\_\_\_ luminaire.

Complete Table 4. Maximum vertical illuminance at lighting boundary, by lighting zone

Table 4. Maximum vertical illuminance at lighting boundary, by lighting zone	
MLO lighting zone	Vertical illuminance

FC = \_\_\_\_\_

AND

**Internally Illuminated Exterior Signage**

Do not exceed a luminance of \_\_\_\_\_ cd/m<sup>2</sup> (nits) during \_\_\_\_\_ hours and \_\_\_\_\_ cd/m<sup>2</sup> (nits) during \_\_\_\_\_ hours.

**Exemptions from Uplight and Light Trespass Requirements**

The following exterior lighting is exempt from the requirements, provided it is controlled \_\_\_\_\_ from the nonexempt lighting:

- specialized signal, directional, and marker lighting for \_\_\_\_\_;
- lighting that is used solely for \_\_\_\_\_ and \_\_\_\_\_ lighting in MLO lighting zones \_\_\_ and \_\_\_, and is \_\_\_\_\_ turned off from \_\_\_\_\_ until \_\_\_\_\_ a.m.;
- lighting for \_\_\_\_\_ purposes for stage, film, and video performances;
- government-mandated \_\_\_\_\_ lighting;
- \_\_\_\_\_ emergency departments, including associated \_\_\_\_\_;
- lighting for the national \_\_\_\_\_ in MLO lighting zones \_\_\_, \_\_\_, or \_\_\_; and
- \_\_\_\_\_ illuminated signage.

21. SS Credit Site Master Plan applies to: \_\_\_\_\_

**22. SS Credit Site Master Plan requirements**

The project must achieve at least \_\_\_\_\_ of the following six credits, using the associated calculation methods. The achieved credits must then be \_\_\_\_\_ using the data from the master plan.

LT Credit: \_\_\_\_\_

SS Credit: \_\_\_\_\_

SS Credit: \_\_\_\_\_

SS Credit: \_\_\_\_\_

SS Credit: \_\_\_\_\_

SS Credit: \_\_\_\_\_

A site \_\_\_\_\_ plan for the school must be developed in collaboration with school \_\_\_\_\_. Previous sustainable site design measures should be considered in all master-planning efforts so that existing infrastructure is \_\_\_\_\_ whenever possible. The master plan must therefore include \_\_\_\_\_ construction activity plus \_\_\_\_\_ construction (within the building's lifespan) that affects the site. The master plan development footprint must also include \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.

Projects where no \_\_\_\_\_ development is planned are \_\_\_\_\_ eligible for this credit.

23. SS Credit Tenant Design and Construction Guidelines applies to: \_\_\_\_\_

24. SS Credit Tenant Design and Construction Guidelines requirements:

Publish for tenants an \_\_\_\_\_ document with the following content, as applicable: a description of the sustainable design and construction features incorporated in the core and shell project and the project's sustainability \_\_\_\_\_ and \_\_\_\_\_, including those for tenant spaces; recommendations, including examples, for sustainable strategies, products, materials, and services; and information that \_\_\_\_\_ a tenant to \_\_\_\_\_ space design and construction with the building systems when pursuing the following LEED v4 for \_\_\_\_\_ Design and Construction prerequisites and credits:

WE Prerequisite: Indoor \_\_\_\_\_ Use Reduction

WE Credit: Indoor \_\_\_\_\_ Use Reduction

EA Prerequisite: \_\_\_\_\_ Energy Performance

EA Prerequisite: \_\_\_\_\_ Refrigerant Management

EA Credit: \_\_\_\_\_ Energy Performance

EA Credit: \_\_\_\_\_ Energy Metering

EA Credit: \_\_\_\_\_ Energy Production

EA Credit: \_\_\_\_\_ Refrigerant Management

MR Prerequisite: Storage and Collection of \_\_\_\_\_

EQ Prerequisite: \_\_\_\_\_ Indoor Air Quality Performance

EQ Prerequisite: Environmental Tobacco \_\_\_\_\_ Control

EQ Credit: \_\_\_\_\_ Indoor Air Quality Strategies

EQ Credit: \_\_\_\_\_ -Emitting Materials

EQ Credit: \_\_\_\_\_ Indoor Air Quality Management Plan

EQ Credit: \_\_\_\_\_ Air Quality Assessment

EQ Credit: \_\_\_\_\_ Comfort

EQ Credit: \_\_\_\_\_ Lighting

EQ Credit: \_\_\_\_\_

EQ Credit: \_\_\_\_\_ Views

EQ Credit: \_\_\_\_\_ Performance

Provide the guidelines to all tenants \_\_\_\_\_ signing the \_\_\_\_\_.

25. SS Credit Places of Respite applies to: \_\_\_\_\_
26. SS Credit Places of Respite requirements:  
 Provide places of respite that are accessible to \_\_\_\_\_ and \_\_\_\_\_, equal to \_\_\_\_\_ of the net usable program area of the building.
- Provide additional dedicated places of respite for \_\_\_\_\_, equal to \_\_\_\_\_ of the net usable program area of the building.
- Places of respite must be \_\_\_\_\_, or be located in interior \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, or \_\_\_\_\_ spaces; such interior spaces may be used to meet up to \_\_\_\_\_ of the required area if \_\_\_\_\_ of each qualifying space's gross floor area achieves a direct line of sight to \_\_\_\_\_ views of \_\_\_\_\_.
- All areas must meet the following requirements.  
 The area is accessible from within the building or located within \_\_\_\_\_ feet (60 meters) of a building \_\_\_\_\_ or \_\_\_\_\_ point.
- The area is located where no \_\_\_\_\_ intervention or direct medical care is delivered.
- Options for \_\_\_\_\_ or \_\_\_\_\_ sun are provided, with at least one seating space per \_\_\_\_\_ square feet (18.5 square meters) of each respite area, with one \_\_\_\_\_ space per \_\_\_\_\_ seating spaces.
- Horticulture therapy and other specific clinical or special-use gardens unavailable to all building occupants may account for no more than \_\_\_\_\_ of the required area.
- Universal-access natural trails that are available to \_\_\_\_\_, \_\_\_\_\_, or \_\_\_\_\_ may account for no more than \_\_\_\_\_ of the required area, provided the trailhead is within \_\_\_\_\_ feet (60 meters) of a building \_\_\_\_\_.
- Additionally, outdoor areas must meet the following requirements.  
 A minimum of \_\_\_\_\_ of the total outdoor area must be \_\_\_\_\_ at the ground plane (not including turf grass) or have overhead vegetated \_\_\_\_\_.
- The area is open to \_\_\_\_\_ air, the \_\_\_\_\_, and the \_\_\_\_\_ elements.
- Signage must meet the 2010 FGI Guidelines for Design and Construction of Health Care Facilities (Section 1.2-6.3 and Appendix A1.2-6.3: \_\_\_\_\_).
- Places of respite may not be within \_\_\_\_\_ feet (7.6 meters) of a \_\_\_\_\_ area (see EQ Prerequisite Environmental Tobacco Smoke Control).
- \_\_\_\_\_ places of respite on the hospital campus may qualify if they otherwise meet the credit requirements.
27. SS Credit Direct Exterior Access applies to: \_\_\_\_\_
28. SS Credit Direct Exterior Access requirements:  
 Provide direct \_\_\_\_\_ to an exterior \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, or \_\_\_\_\_. The space must be at least \_\_\_\_\_ square feet (0.5 square meters) per patient for \_\_\_\_\_ of all \_\_\_\_\_ and \_\_\_\_\_ of qualifying \_\_\_\_\_ whose clinical length of stay (LOS) exceeds \_\_\_\_\_ hours. Patients whose length of stay exceeds four hours, and whose treatment makes them unable to \_\_\_\_\_, such as emergency, stage 1 surgical recovery, and critical care patients, may be \_\_\_\_\_.

Places of respite outside the building \_\_\_\_\_ that meet the requirements of SS Credit Places of Respite that are immediately \_\_\_\_\_ to clinical areas or with direct access from \_\_\_\_\_ units may be included.

Qualifying spaces must be designated as \_\_\_\_\_. The spaces must also meet the requirements for outdoor air contaminant concentrations enumerated in EQ Credit Enhanced Indoor Air Quality Strategies, Option 2 and be located more than \_\_\_\_\_ feet (30 meters) from building \_\_\_\_\_ air locations, loading \_\_\_\_\_, and roadways with \_\_\_\_\_ vehicles.

29. SS Credit Joint Use of Facilities applies to: \_\_\_\_\_

30. SS Credit Joint Use of Facilities requirements:

OPTION 1. Make Building Space Open to the General Public (1 point)

In collaboration with the school \_\_\_\_\_, ensure that at least \_\_\_\_\_ of the following types of spaces in the school are \_\_\_\_\_ to and available for shared use by the general \_\_\_\_\_:

\_\_\_\_\_;

\_\_\_\_\_;

\_\_\_\_\_;

one or more \_\_\_\_\_;

\_\_\_\_\_ fields and \_\_\_\_\_; and

joint \_\_\_\_\_.

Provide access to \_\_\_\_\_ in joint-use areas after normal school hours.

OR

Option 2. Contract with Specific Organizations to Share Building Space (1 point)

In collaboration with the school authorities, contract with \_\_\_\_\_ or other organizations to provide at least \_\_\_\_\_ types of \_\_\_\_\_-use spaces in the building, such as the following:

commercial \_\_\_\_\_;

\_\_\_\_\_ clinic;

\_\_\_\_\_ service centers (provided by state or local offices);

\_\_\_\_\_ office;

\_\_\_\_\_ or \_\_\_\_\_ center;

\_\_\_\_\_ lot; and

one or more \_\_\_\_\_ businesses.

Provide access to \_\_\_\_\_ in joint-use areas after normal school hours.

OR

Option 3. Use Shared Space Owned by Other Organizations (1 point)

In collaboration with the school authorities, ensure that at least \_\_\_\_\_ of the following six types of spaces that are owned by \_\_\_\_\_ organizations or agencies are accessible to \_\_\_\_\_:

\_\_\_\_\_;

\_\_\_\_\_;

\_\_\_\_\_;  
one or more \_\_\_\_\_;  
\_\_\_\_\_ pool; and  
\_\_\_\_\_ fields and stadiums.

Provide \_\_\_\_\_ pedestrian access to these spaces from the school. In addition, provide  
\_\_\_\_\_ joint-use \_\_\_\_\_ with the other organizations or agencies that  
stipulate how these spaces will be shared.