LEED Building Design and Construction
Activity #3 –Location and Transportation (LT)
Before completing this Activity Read: Reference Guide for Building Design and Construction v4 – Pages 54-135

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 Location and Transportation (LT) credit category:

Credit	Name
C1	
C2	
C3	
C4	
C5	
C6	
C7	
C8	

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

Credit	ANS
LT – C1	
LT – C2	
LT – C3	
LT – C4	
LT – C5	
LT – C6	
LT – C7	
LT – C8	

	INTENT
A	To avoid the development of environmentally sensitive lands and reduce the environmental impact from the location of a building on a site.
B	To conserve land and protect farmland and wildlife habitat by encouraging development in areas with existing infrastructure. To promote walkability, and transportation efficiency and reduce vehicle distance traveled. To improve public health by encouraging daily physical activity.
C	To promote bicycling and transportation efficiency and reduce vehicle distance traveled. To improve public health by encouraging utilitarian and recreational physical activity.
D	To avoid development on inappropriate sites. To reduce vehicle distance traveled. To enhance livability and improve human health by encouraging daily physical activity.
E	To minimize the environmental harms associated with parking facilities, including automobile dependence, land consumption, and rainwater runoff.
F	To encourage project location in areas with development constraints and promote the health of the surrounding area.
G	To reduce pollution by promoting alternatives to conventionally fueled automobiles.
H	To encourage development in locations shown to have multimodal transportation choices or otherwise reduced motor vehicle use, thereby reducing greenhouse gas emissions, air pollution, and other environmental and public health harms associated with motor vehicle use.

3. List examples of existing infrastructure that well-located buildings could take advantage of:

    1.

    2.

    3.

    4.

    5.

    6.

4. List alternatives to private automobile use encouraged by the Location and transportation (LT) credit category:

    1.

    2.

    3.

    4.

5. Reusing _____ developed land, cleaning up _____ sites, and investing in disadvantaged areas conserve _____ land and ensure efficient delivery of services and infrastructure.

6. Measuring walking and bicycling distances by how far a pedestrian and bicyclist would travel from a point of origin to a destination is known as the _____.

7. List examples of infrastructure that makes a walking path safe and comfortable for pedestrians:

    1.

    2.

    3.

    4.

8. List examples of infrastructure that makes bicycling safe and comfortable for bicyclists:

    1.

    2.

    3.

9. When determining total parking capacity, include all the _____-street spaces available to the project building's users. This may include spaces both _____ and _____ the project boundary.

10. List the parking spaces that must be included when determining a projects total parking capacity:

    1.

    2.

    3.

11. List the parking spaces that should not be included when determining a projects total parking capacity:

    1.

    2.

    3.

12. _____ parking spaces have the shortest walking distance to the _____ entrance of the project, exclusive of spaces designated for _____.

13. Although not encouraged, preferred parking areas and signage for carpool and vanpool vehicles and green vehicles may be combined if _____ of total parking capacity is reserved with this signage and both _____ and _____ credits are achieved.

14. LT Credit LEED for Neighborhood Development Location Requirements
    Locate the project within the boundary of a development certified under _____ (Stage 2 or Stage 3 under the Pilot or 2009 rating systems, Certified Plan or Certified Project under the LEED v4 rating system).

    Projects attempting this credit are _____ eligible to earn points under other _____ credits.

15. Complete Table 1. Points for LEED ND location:

Table 1. Points for LEED ND location

Certification Level	Points BD+C (NC, R, DC, WDC, HOS)	Points BD+C (CS)	Points BD+C (S)	Points BD+C (HC)
Certified				
Silver				
Gold				
Platinum				

16. The LEED for Neighborhood Development (LEED ND) rating system combines principles of _____ growth, new _____, and green building design and construction to promote _____, _____, and _____ places for neighborhood residents, workers, and visitors.

17. List sustainability features found in LEED for Neighborhood Development (LEED ND) neighborhoods:

    1.

    2.

    3.

    4.

    5.

18. List where a project team could find up-to-date lists of LEED ND projects or soon-to-be-certified LEED ND neighborhoods:

    1.

    2.

19. Complete Table 2. Eligibility by LEED ND certification designation:

Table 2. Eligibility by LEED ND certification designation

Version	Eligible	Ineligible
LEED ND Pilot		
LEED 2009		
LEED v4		

20. The LEED ND project must have achieved _____ to earn this credit. LEED ND projects that have only been _____ or _____ for certification review do not qualify.

21. List the information that must be obtained from the LEED ND project team:

    1.

    2.

22. List the required documentation for the LT Credit LEED for Neighborhood Development Location:

    1.

    2.

23. LT Credit Sensitive Land Protection requirements:
    OPTION 1.
    Locate the development _____ on land that has been _____.

    Or
    OPTION 2.
    Locate the development footprint on land that has been _____
    or that does not meet the following criteria for sensitive land:

    1.

    2.

    3.

    4.

    5.

    Minor improvements within the _____ and _____ body buffers may be undertaken to enhance appreciation of them, provided such facilities are open to _____.
    Only the following improvements are considered minor:

    Bicycle and pedestrian pathways no more than _____ wide (3.5 meters), of which no more than _____ (2.5 meters) may be impervious;

    Activities to maintain or restore _____ natural communities and/or natural _____;

    One single-story structure per _____ (90 linear meters) on average, not exceeding _____ (45 square meters);

    Grade changes necessary to ensure _____ access;

    Clearings, limited to one per _____ (90 linear meters) on average, not exceeding _____ (45 square meters) each;

    Removal of the following tree types:

    _____ trees, up to _____ of dead trees

    Trees less than _____ inches (150 millimeters) diameter at breast height

    Up to _____ of trees more than _____ inches (150 millimeters) diameter at breast height with a condition rating of _____ or higher.

    Trees under _____ condition rating
    The condition rating must be based on an assessment by an _____ certified by the International Society of Arboriculture (ISA) using ISA standard measures, or _____ equivalent for projects outside the U.S.

    _____ remediation activities.

24. One strategy for lessening the environmental consequences of a building is to select a site that has _____ and then to limit the building's _____ to the _____ developed area.

25. List the options for LT Credit High Priority Site and complete the requirements:
    OPTION 1. _____

    Locate the project on an _____ location in a _____ district.

OR

OPTION 2. _____
Locate the project on one of the following:
a site listed by the EPA _____;
a _____ site;
a _____ site;
a _____ site;
a Department of the Treasury _____
Fund Qualified Low-Income Community (a subset of the New Markets Tax Credit Program);
a site in a U.S. Department of Housing and Urban Development's _____(QCT) or Difficult Development Area (DDA); or
a _____ equivalent program administered at the _____ level for projects outside the U.S.

OR

OPTION 3. _____
Locate on a _____ where _____ or _____ contamination has been identified, and where the local, state, or national authority (whichever has jurisdiction) requires its _____. Perform _____. to the satisfaction of that authority.

26. The redevelopment of sites in historic districts can also reduce _____ through _____.

27. To determine _____ status, first identify all land within _____ (800 meters) of the project boundary that has been _____ developed, excluding _____ and other rights of way.

28. Determine the percentage of land that is previously developed by dividing the previously developed area by the total land area less streets and rights-of-way within _____ (800 meters) of the project boundary. Water bodies are not included in land area. If this percentage is _____ or greater, the location is considered an infill site.

29. For LT Credit High Priority Site exemplary performance, pursue Option ___ or ___ in addition to Option ___. Otherwise, only one option is allowed.

30. LT Credit Surrounding Density and Diverse Uses requires:
NC, CS, S, R, DC, HOS
OPTION 1 – Surrounding Density
Locate on a site whose surrounding existing density within a _____ (400-meter) radius of the project boundary meets the values in Table 1. Use either the "separate residential and nonresidential densities" or the "combined density" values.

Complete Table 1A. Points for average density within 1/4 mile of project (imperial units)

Table 1A. Points for average density within 1/4 mile of project (imperial units)				
Combined Density	**Separate Residential and Nonresidential Densities**		**Points BD+C (except Core and Shell)**	**Points BD+C (Core and Shell)**
Square feet per acre of buildable land	**Residential Density (DU/acre)**	**Nonresidential Density (FAR)**		

Schools Only
School projects earning LT Credit Surrounding Density and Diverse Uses following OPTION 1. Surrounding Density may exclude what types of spaces from the development density calculations?

1.

2.

AND/OR

OPTION 2. Diverse Uses
Construct or renovate a building or a space within a building such that the building's main entrance is within a _____ (800-meter) walking distance of the _____ entrance of _____ to _____ (1 point) or _____ or more (2 points) existing and publicly available diverse uses (listed in Appendix 1). The following restrictions apply.

A use counts as only _____ type (e.g., a retail store may be counted only once even if it sells products in several categories).

No more than _____ uses in each use type may be counted (e.g. if five restaurants are within walking distance, only two may be counted).

The counted uses must represent at least _____ of the _____ categories, exclusive of the building's primary use.

Warehouses and Distribution Centers
OPTION 1. Development and Adjacency
Construct or renovate the project on a _____ developed site that was used for _____ or _____ purposes (2 points).

OR

Construct or renovate the project on a site that is both a _____ developed and an _____ site. The adjacent sites must be currently used for _____ or _____ purposes (3 points).

AND/OR

OPTION 2. Transportation Resources
Construct or renovate the project on a site that has _____ or _____ (1 point) or _____ (2 points) of the following transportation resources:

The site is within a _____ (16 kilometer) driving distance of a main logistics hub, defined as an airport, seaport, intermodal facility, or freight village with intermodal transportation.

The site is within a _____ (1 600-meter) driving distance of an on-off ramp to a highway.

The site is within a _____ (1 600-meter) driving distance of an access point to an active freight rail line.

The site is served by an active _____.

In all cases, a planned transportation resource must be sited, funded, and under construction by the date of the _____ and complete within _____months of that date.

Healthcare
OPTION 1. Surrounding Density
Locate on a site whose surrounding existing density within a _____ (400-meter) radius of the project boundary is:

1. At least _____ dwelling units per acre (17.5 DU per hectare) with a _____ floor-area ratio. The counted density must be existing density, not zoned density, or
2. At least _____ square feet per acre (5050 square meters per hectare) of buildable land.

For previously developed existing rural healthcare campus sites, achieve a minimum development density of _____square feet per acre (6 890 square meters per hectare).

OR

OPTION 2. Diverse Uses
Construct or renovate a building on a site such that the building's main entrance is within a _____ (800-meter) walking distance of the main entrance of at least _____ operational and publicly accessible uses (listed in Appendix 1).

The following restrictions apply.

A use counts as only _____ type (e.g., a retail store may be counted only once even if it sells products in several categories).

No more than _____ uses in each use type may be counted (e.g. if five restaurants are within walking distance, only two may be counted).

The counted uses must represent at least _____ of the _____ categories, exclusive of the building's primary use.

31. Because most people prefer to walk no more than a _____ of a mile (400 meters) or _____ minutes to casual destinations and no more than _____ a mile (800 meters) for regular trips such as a daily commute, locating different kinds of destinations close to each other achieves a long list of documented environmental and social benefits.

32. List the categories for uses types:

    1.

    2.

    3.

    4.

    5.

33. To be considered a previously developed site, the land area must be _____ previously developed

34. LT Credit Access to Quality Transit requirements:
    NC, CS, DC, WDC, HOS
    Locate any functional entry of the project within a _____ (400-meter) walking distance of existing or planned _____, _____, or _____ stops, or within a _____ (800-meter) walking distance of existing or planned _____, light or heavy _____ stations, _____ stations, or commuter _____ terminals. The transit service at those stops and stations in aggregate must meet the minimums listed in Tables 1 and 2. Planned stops and stations may count if they are _____, _____,

and _____ construction by the date of the _____ and are complete within _____ months of that date.

Both _____ and _____ trip minimums must be met.

Qualifying transit routes must have _____ route service (service in opposite directions).

For each qualifying transit route, only trips in _____ direction are counted towards the threshold.

If a qualifying transit route has multiple stops within the required walking distance, only trips from _____ stop are counted towards the threshold.

Complete Table 1. Minimum daily transit service for projects with multiple transit types (bus, streetcar, rail, or ferry)

Table 1. Minimum daily transit service for projects with multiple transit types (bus, streetcar, rail, or ferry)			
Weekday Trips	**Weekend Trips**	**Points BD+C (except Core and Shell)**	**Points BD+C (Core and Shell)**

Complete Table 2. Minimum daily transit service for projects with commuter rail or ferry service only

Table 2. Minimum daily transit service for projects with commuter rail or ferry service only		
Weekday Trips	**Weekend Trips**	**Points (All Projects)**

Projects served by _____ or more transit routes such that no one route provides more than _____ of the documented levels may earn _____ additional point, up to the maximum number of points.

If existing transit service is temporarily rerouted outside the required distances for less than _____ years, the project may meet the requirements, provided the local transit agency has committed to restoring the routes with service at or above the prior level.

Schools

OPTION 1. Transit-Served Location (1-4 points)

Locate any functional entry of the project within a _____ (400-meter) walking distance of existing or planned _____, _____, or _____ stops, or within a _____ (800-meter) walking distance of existing or planned _____, light or heavy _____ stations, _____ stations, or commuter _____ terminals. The transit service at those stops and stations in aggregate must meet the minimums listed in Tables 1 and 2. Planned stops and stations may count if they are _____, _____, and _____ construction by the date of the _____ and are complete within _____ months of that date.

Qualifying transit routes must have _____ route service (service in opposite directions).

For each qualifying transit route, only trips in _____ direction are counted towards the threshold.

If a qualifying transit route has multiple stops within the required walking distance, only trips from _____ stop are counted towards the threshold.

Complete Table 1. Minimum daily transit service for projects with multiple transit types (bus, streetcar, rail, or ferry)

Table 1. Minimum daily transit service for projects with multiple transit types (bus, streetcar, rail, or ferry)	
Weekday Trips	**Points**

Complete Table 2. Minimum daily transit service for projects with commuter rail or ferry service only

Table 2. Minimum daily transit service for projects with commuter rail or ferry service only	
Weekday Trips	**Points**

Projects served by _____ or more transit routes such that no one route provides more than _____ of the prescribed levels may earn _____ additional point, up to the maximum number of points.

If existing transit service is temporarily rerouted outside the required distances for less than _____ years, the project may meet the requirements, provided the local transit agency has committed to restoring the routes with service at or above the prior level.

OR

OPTION 2. Pedestrian Access
Show that the project has an attendance boundary such that the specified percentages of students live within no more than a _____ (1200-meter) walking distance (for grades _____ and below, or ages _____ and below), and _____ (2400-meter) walking distance (for grades _____ and above or ages _____ and above) of a _____ entry of a school building. Points are awarded according to Table 3.

Complete Table 3. Points for student population within walking distance

Table 3. Points for student population within walking distance	
Percentage of Students	**Points**

In addition, locate the project on a site that allows _____ access to the site from _____ residential neighborhoods that house the planned student population.

Healthcare
Locate any functional entry of the project within a _____ (400-meter) walking distance of existing or planned _____, _____, or _____ stops, or within a _____ (800-meter) walking distance of existing or planned _____, light or heavy _____ stations, _____ stations, or commuter _____ terminals. The transit service at those stops and stations in aggregate must meet the minimums listed in Tables 1 and 2. Planned stops and stations may count if they are _____, _____, and _____ construction by the date of the _____ and are complete within _____ months of that date.

Both _____ and _____ trip minimums must be met.

Qualifying transit routes must have _____ route service (service in opposite directions).

For each qualifying transit route, only trips in _____ direction are counted towards the threshold.

If a qualifying transit route has multiple stops within the required walking distance, only trips from _____ stop are counted towards the threshold.

Complete Table 1. Minimum daily transit service for projects with multiple transit types (bus, streetcar, rail, or ferry)

Table 1. Minimum daily transit service for projects with multiple transit types (bus, streetcar, rail, or ferry)		
Weekday Trips	**Weekend Trips**	**Points**

Complete Table 2. Minimum daily transit service for projects with commuter rail or ferry service only

Table 2. Minimum daily transit service for projects with commuter rail or ferry service only		
Weekday Trips	**Weekend Trips**	**Points**

Projects served by _____ or more transit routes such that no one route provides more than _____ of the documented levels may earn _____ additional point, up to the maximum number of points.

If existing transit service is temporarily rerouted outside the required distances for less than _____ years, the project may meet the requirements, provided the local transit agency has committed to restoring the routes with service at or above the prior level.

35. Nearly all forms of public transit create fewer _____ _____ emissions per passenger than single-occupancy vehicles.

36. To earn exemplary performance for LT Credit Access to Quality Transit _____ the highest transit service point threshold (except for Schools projects using Option ____).

37. LT Credit Bicycle Facilities requirements:
    NC, CS, DC, WDC, HOS
    Bicycle Network
    Design or locate the project such that a functional entry and/or bicycle storage is within a _____ (180-meter) _____ distance or _____ distance from a bicycle network that connects to at least _____ of the following:

at least _____ diverse uses (see Appendix 1);
a _____ or _____ center, if the project total floor area is _____ or more residential; or
a _____, light or heavy _____ station, _____ station, or _____ terminal.

All destinations must be within a _____ (4800-meter) bicycling distance of the project boundary.

Planned bicycle trails or lanes may be counted if they are _____ funded by the date of the certificate of occupancy and are scheduled for completion within _____ of that date.

Bicycle Storage and Shower Rooms
Case 1. Commercial or Institutional Projects
Provide _____ bicycle storage for at least _____ of all _____ visitors, but no fewer than _____ storage spaces per building.
Provide _____ bicycle storage for at least _____ of all regular building occupants, but no fewer than _____ storage spaces per building in addition to the short-term bicycle storage spaces.

Provide at least _____ on-site shower with changing facility for the first _____ regular building occupants and _____ additional shower for every _____ regular building occupants thereafter.

Case 2. Residential Projects
Provide _____ bicycle storage for at least _____ of all _____ visitors but no fewer than _____ storage spaces per building.

Provide _____ bicycle storage for at least _____ of all regular building occupants, but no less than _____ storage space per residential unit.

Case 3. Mixed-Use Projects
Meet the Case 1 and Case 2 storage requirements for the _____and _____ portions of the project, respectively.

For all Projects
Short-term bicycle storage must be within _____ (30 meters) walking distance of any _____ entrance. Long-term bicycle storage must be within _____ (30 meters) walking distance of any _____ entry.

Bicycle storage capacity may not be _____-counted: storage that is fully allocated to the occupants of nonproject facilities cannot also serve project occupants.

_____ projects should refer to Appendix 2, Default Occupancy Counts, for occupancy count requirements and guidance.

School
Bicycle Network
Design or locate the project such that a functional entry and/or bicycle storage is within a _____ (180-meter) _____ distance or _____ distance of a bicycle network that connects to at least _____ of the following:
at least _____ diverse uses (see Appendix 1); or
a _____, light or heavy _____ station, _____ station, or _____ terminal

All destinations must be within a _____ (4800-meter) bicycling distance of the project boundary.

Provide _____ bicycle lanes that extend at least to the _____ of the school property with no barriers (e.g., fences) on school property.

Planned bicycle trails or lanes may be counted if they are _____ funded by the date of the certificate of occupancy and are scheduled for completion within _____ of that date.

Bicycle Storage and Shower Rooms
Provide long-term bicycle storage for at least _____ of all regular building occupants (excluding students grade _____ and younger), but no fewer than _____ storage spaces per building.

Provide at least _____ on-site shower with changing facility for the first _____ regular building occupants (excluding students) and _____ additional shower for every _____ regular building occupants (excluding students) thereafter.

Long-term storage spaces must be easily accessible to occupants and be within _____ feet (30 meters) walking distance of any _____ entrance. Bicycle storage capacity may not be _____-counted: storage that is fully allocated to the occupants of nonproject facilities cannot also serve project occupants.

Retail
Bicycle Network
Design or locate the project such that a functional entry and/or bicycle storage is within a _____ (180-meter) _____ distance or _____ distance from a bicycle network that connects to at least _____ of the following:
at least _____ diverse uses (see Appendix 1);
a _____, light or heavy _____ station, _____ station, or _____ terminal.

All destinations must be within a _____ (4800-meter) bicycling distance of the project boundary.

Planned bicycle trails or lanes may be counted if they are _____ funded by the date of the certificate of occupancy and are scheduled for completion within _____ of that date.

Bicycle Storage and Shower Rooms
Provide at least _____ short-term bicycle storage spaces for every _____ square feet (465 square meters), but no fewer than _____ storage spaces per building.

Provide long-term bicycle storage for at least _____ of regular building occupants, but no fewer than _____ storage spaces per building in addition to the short-term bicycle storage spaces.

Provide at least _____ on-site shower with changing facility for the first _____ regular building occupants and _____ additional shower for every _____ regular building occupants thereafter.

Short-term bicycle storage must be within _____ (30 meters) walking distance of any _____ entrance.

Long-term bicycle storage must be within _____ (30 meters) walking distance of any _____ entry.

Bicycle storage capacity may not be _____-counted: storage that is fully allocated to the occupants of nonproject facilities cannot also serve project occupants.

Provide a bicycle _____ program for employees or bicycle _____ for employees and customers.

Route assistance must be provided in a manner easily accessible to both _____ and customers.

For projects that are part of a _____ complex only: If bicycle storage spaces have been provided in the complex in which the project is located, determine the number of spaces that may be attributed to the project by dividing the project's _____ area by the _____ floor area of the development (buildings only) and multiplying the percentage result by the total number of spaces. If this number does not meet the credit requirement, the project must provide additional bicycle storage.

Healthcare

Bicycle Network

Design or locate the project such that a functional entry and/or bicycle storage is within a _____ (180-meter) _____ distance or _____ distance from a bicycle network that connects to at least _____ of the following:

at least _____ diverse uses (see Appendix 1);

a _____, light or heavy _____ station, _____ station, or _____ terminal.

All destinations must be within a _____ (4800-meter) bicycling distance of the project boundary.

Planned bicycle trails or lanes may be counted if they are _____ funded by the date of the certificate of occupancy and are scheduled for completion within _____ of that date.

Bicycle Storage and Shower Rooms

Case 1. Commercial or Institutional Projects

Provide short-term bicycle storage for at least _____ of all _____ visitors, but no fewer than _____ storage spaces per building.

Provide long-term bicycle storage for at least _____ of regular building occupants (excluding patients), but no fewer than _____ storage spaces per building in addition to the short-term bicycle storage spaces.

Provide at least _____ on-site shower with changing facility for the first _____ regular building occupants (excluding patients) and _____ additional shower for every _____ regular building occupants thereafter.

Case 2. Residential Projects

Provide _____, _____ bicycle storage for at least _____ of all regular building occupants (excluding patients) measured at _____ periods, but no less than _____ storage space per residential unit.

For all Projects

Short-term bicycle storage must be within _____ (30 meters) walking distance of any _____ entrance. Long-term bicycle storage must be within _____ (30 meters) walking distance of any _____ entry.

Bicycle storage capacity may not be _____-counted: storage that is fully allocated to the occupants of nonproject facilities cannot also serve project occupants.

Bicycling offers many individual and global benefits. For every _____ (1600 meters) pedaled rather than driven, nearly ___ pound (450 grams) of _____ _____ (CO_2) emissions is avoided.

A “bicycle network” is defined to include, in any combination, demarcated bike _____, bike _____, and streets with a maximum speed limit of _____ mph (40 kph). Both bike lanes and bike trails must meet the credit’s _____ requirements.

If space for shower and changing facilities is limited, _____ access to on-site shower facilities or health club shower facilities within the LEED _____ may be provided to _____ occupants in lieu of inhouse facilities. Health club or shower facilities must be accessible to occupants without their having to go _____ and available during the project’s hours of operation.

38. LT Credit Reduced Parking Footprint requirements:
Do not exceed the _____ local code requirements for parking capacity.

Provide parking capacity that is a percentage reduction below the _____ ratios recommended by the Parking Consultants Council, as shown in the
_____Handbook, 3rd edition, Tables 18-2 through 18-4.

Case 1. Baseline Location
Projects that have not earned points under LT Credit _____
or LT Credit _____ must achieve a _____ reduction from the base ratios.

Case 2. Dense and/or Transit-Served Location
Projects earning _____ or more points under either LT Credit Surrounding Density and Diverse Uses or LT Credit Access to Quality Transit must achieve a _____ reduction from the base ratios.

For All Projects
The credit calculations must include all _____ and _____ off-street parking spaces that are leased or owned by the project, including parking that is _____ the project boundary but is used by the project. On-street parking in public rights-of-way is _____ from these calculations.

For projects that use _____ parking, calculate compliance using the project's share of the pooled parking. Provide preferred parking for carpools for _____ of the total parking spaces after reductions are made from the base ratios. Preferred parking is not required if no _____ parking is provided.

Mixed-use projects should determine the percentage reduction by first _____ the parking amount of each use (as specified by the base ratios) and then determining the percentage reduction from the aggregated parking amount.

Do not count parking spaces for _____ and _____ vehicles unless these vehicles are regularly used by employees for _____ as well as _____ purposes.

LT Credit Reduced Parking Footprint Exemplary Performance
Case 1. Achieve a _____ parking reduction from the base ratios.
Case 2. Achieve a _____ parking reduction from the base ratios.

39. LT Credit Green Vehicles Requirements:
NC, CS, DC, HOS, R, HC
Designate _____ of all parking spaces used by the project as _____ parking for green vehicles. Clearly identify and enforce for sole use by _____ vehicles. Distribute preferred parking spaces _____ among various parking sections (e.g. between short-term and long-term spaces).

Green vehicles must achieve a minimum green score of _____ on the American Council for an Energy Efficient Economy (ACEEE) annual vehicle rating guide (or local equivalent for projects outside the U.S.).

A discounted parking rate of at least _____ for green vehicles is an acceptable substitute for preferred parking spaces. The discounted rate must be publicly posted at the _____ of the parking area and _____ available to _____ qualifying vehicle.

In addition to preferred parking for green vehicles, meet one of the following two options for alternative-fuel fueling stations:

Option 1. Electric Vehicle Charging
Install electrical vehicle supply equipment (EVSE) in _____ of all parking spaces used by the project. Clearly identify and reserve these spaces for the sole use by plug-in electric vehicles. EVSE parking spaces must be provided in addition to preferred parking spaces for green vehicles.

The EVSE must:
Provide a Level _____ charging capacity (208 – 240 volts) or greater.

Comply with the relevant _____ or _____ standard for electrical connectors, such as SAE Surface Vehicle Recommended Practice J1772, SAE Electric Vehicle Conductive Charge Coupler or IEC 62196 of the International Electrotechnical Commission for projects outside the U.S.

Be _____ or internet addressable and be capable of participating in a _____-response program or _____ pricing to encourage _____ charging.

OR

Option 2. Liquid, gas, or battery facilities
Install _____ or _____ alternative fuel fueling facilities or a battery switching station capable of refueling a number of vehicles per day equal to at least _____ of all parking spaces.

Schools
Option 1. Green passenger vehicles
Designate _____ of all parking spaces used by the project as _____ parking for green vehicles. Clearly identify and _____ for sole use by green vehicles. Distribute preferred parking spaces proportionally among various parking sections (e.g. between short-term and long-term spaces).

Green vehicles must achieve a minimum green score of _____ on the American Council for an Energy Efficient Economy (ACEEE) annual vehicle rating guide (or local equivalent for projects outside the U.S.)

A discounted parking rate of at least _____ for green vehicles is an acceptable substitute for _____ parking spaces. The discounted rate must be publicly posted at the _____ of the parking area and _____ available to _____ qualifying vehicle.

In addition to preferred parking for green vehicles, meet one of the following two options for alternative-fuel fueling stations:

Path 1. Electric Vehicle Charging
Install electrical vehicle supply equipment (EVSE) in _____ of all parking spaces used by the project. Clearly identify and _____ these spaces for the sole use by plug-in electric vehicles. EVSE _____ must be provided in addition to preferred parking spaces for green vehicles.

The EVSE must:
Provide a Level _____ charging capacity (208 – 240 volts) or greater.
Comply with the relevant _____ or _____ standard for electrical connectors, such as SAE Surface Vehicle Recommended Practice J1772, SAE Electric Vehicle Conductive Charge Coupler or IEC 62196 of the International Electrotechnical Commission for projects outside the U.S.
Be _____ or internet addressable and be capable of participating in a _____-response program or _____ pricing to encourage _____ charging.

OR

Path 2. Liquid, gas, or battery facilities
Install _____ or _____ alternative fuel fueling facilities or a battery switching station capable of refueling a number of vehicles per day equal to at least _____ of all parking spaces.

OR
Option 2. Green buses and school-owned vehicles
Develop and implement a plan for every _____ serving the school to meet the following emissions standards within _____ years of the building certificate of occupancy:
nitrogen oxide (NOx) emissions of _____ grams or less per brake horsepower-hour; and
particulate matter emissions of _____ grams or less per brake horsepower-hour.

Emission standards must be met for _____ bus and not by an average of the entire fleet serving the school.
Develop and implement a plan for _____ of all other (non-bus) vehicles owned or leased to serve the school to be green vehicles. Green vehicles must achieve a minimum green score of _____ on the _____ (ACEEE) annual vehicle rating guide (or local equivalent for projects outside the U.S).

Warehouses and Distribution Centers
Option 1. Alternative-Fuel Vehicles (1 point)
Provide an on-site fleet with at least _____ yard tractor that is powered by _____, _____, or _____. Provide on-site charging or refueling stations for the vehicles. Liquid or gas refueling stations must be separately _____ or located outdoors.

OR
Option 2. Reduced Truck Idling (1 point)
Provide an electrical connection for at least _____ of all dock door locations to limit truck idling at the dock.