



LEED v4 for BD+C: New Construction and Major Renovation

Preliminary Project Checklist

Project: **Student Services Building**

Date: August 2021



| Y | ? | N | | | Points | Party | Notes | |
|---|---|----|-----------------------------|--------|--|-------|---|---|
| 1 | | | d | | 1 | All | Assumed project meets all requirements. | |
| 5 | | 11 | Location and Transportation | | | | 32 | |
| | | | d | Credit | LEED for Neighborhood Development Location | 16 | All | N/A- No LEED Neighborhood Development. |
| 1 | | | d | Credit | Sensitive Land Protection | 1 | All | Option 1 - Previously developed site. |
| | | 2 | d | Credit | High Priority Site | 2 | All | N/A- No criteria apply to this site. |
| | | 5 | d | Credit | Surrounding Density and Diverse Uses | 5 | All | Surrounding neighborhood does not meet LEED requirements. |
| 2 | | 3 | d | Credit | Access to Quality Transit | 5 | DLR | ~100 daily trips (302, 315, 325 routes). |
| | | 1 | d | Credit | Bicycle Facilities | 1 | DLR | Requirements not met- showers, locker rooms. |
| 1 | | | d | Credit | Reduced Parking Footprint | 1 | MCC | Majority of parking across street in future lot. |
| 1 | | | d | Credit | Green Vehicles | 1 | MCC | Per MCC: Electric vehicle chargers in parking lot across street, and dedicated Green Vehicle spots for SSB. |
| 7 | | 3 | Sustainable Sites | | | | 10 | Notes |
| Y | | | c | Prereq | Construction Activity Pollution Prevention | Req | KPFF | Requirements will be met. |
| 1 | | | d | Credit | Site Assessment | 1 | KPFF | We have the info to complete this credit. |
| 2 | | | d | Credit | Site Development, Protect or Restore Habitat | 2 | LCI | Option 1: Restore 25% prev. disturbed site. |
| 1 | | | d | Credit | Open Space | 1 | DLR | Requirements met. |
| | | 3 | d | Credit | Rainwater Management | 3 | KPFF | Civil: Poor soils do not allow retentions or infiltration on site. |
| 2 | | | d | Credit | Heat Island Reduction | 2 | Multiple | Requirements met. |
| 1 | | | d | Credit | Light Pollution Reduction | 1 | TK1SC | Requirements met. |

| 6 | 5 | Water Efficiency | | | | 11 | Notes |
|---|---|------------------|--------|-------------------------------|-----|---------------|--|
| Y | | c | Prereq | Outdoor Water Use Reduction | Req | TK1SC/ LCI | Requirements met. |
| Y | | c | Prereq | Indoor Water Use Reduction | Req | TK1SC | Requirements met. |
| Y | | c | Prereq | Building-Level Water Metering | Req | TK1SC | Requirements met. |
| 1 | 1 | d | Credit | Outdoor Water Use Reduction | 2 | TK1SC/ LCI | Currently at 50% outdoor water savings; 100% savings (zero irrigation after 2yrs) earns +1pt for this credit and an additional +1pt in Regional Priority section. Per MCC: Campus Standards for landscaping aesthetic stated as reason for not eliminating irrigation. |
| 4 | 2 | d | Credit | Indoor Water Use Reduction | 6 | TK1SC | 40% savings earns +1pt for this credit and an additional +1pt in Regional Priority section |
| | 2 | d | Credit | Cooling Tower Water Use | 2 | TK1SC | Cooling tower not in project scope. |
| 1 | | d | Credit | Water Metering | 1 | TK1SC | Requirements met. |

| 18 | 15 | Energy & Atmosphere | | | | 33 | Notes |
|----|----|---------------------|--------|--|-----|---------------|---|
| Y | | c | Prereq | Fundamental Commissioning of the Building Energy Systems | Req | CxA | Assumed project meets all requirements. |
| Y | | d | Prereq | Minimum Energy Performance | Req | TK1SC | Requirements will be met. |
| Y | | d | Prereq | Building-Level Energy Metering | Req | TK1SC | Requirements will be met. |
| Y | | d | Prereq | Fundamental Refrigerant Management | Req | TK1SC | Requirements will be met. |
| 6 | | c | Credit | Enhanced Commissioning | 6 | CxA | Per MCC: Can assume HVAC&R and Building Envelope will be commissioned, meeting requirements. |
| 5 | 13 | d | Credit | Optimize Energy Performance | 18 | TK1SC/ DLR | Per MCC: Selected building systems compliant with T24, earning 1pt. Energy Recovery not feasible. Renewable Energy Production reduces total energy use, yielding 5pts for this credit. |
| 1 | | d | Credit | Advanced Energy Metering | 1 | TK1SC | Several submeters in project scope, but LEED requires submeter on any use >10% of building's annual energy use. |
| | 2 | c | Credit | Demand Response | 2 | MCC | Demand load (summer) does not align with college calendar. |
| 3 | | d | Credit | Renewable Energy Production | 3 | MCC | Pursuing Option 2: ~35-40kW PV array on SSB roof. 15% of Total Bldg Energy Use earns +3pts for this credit, an additional +1pt in Regional Priority section, and +1pt for Exemplary Performance |
| 1 | | c | Credit | Enhanced Refrigerant Management | 1 | TK1SC | Requirements met. |
| 2 | | c | Credit | Green Power and Carbon Offsets | 2 | MCC | Option 1: 50% electricity provided through Green Power agreement and 50% natural gas offset with Carbon Offsets for +1pt. ROM Cost: \$6,000. Option 2: 100% electricity thru Green Power agreement and 100% Carbon Offsets for +2pts. ROM Cost: \$12,000 |

| 5 | | 8 | | Materials & Resources | | | 13 | Notes | |
|---|--|---|---|-----------------------|--------|--|-----|-------|--|
| Y | | | | d | Prereq | Storage & Collection of Recyclables | Req | MCC | Assumed project meets all requirements. |
| Y | | | | d | Prereq | Construction and Demolition Waste Management Planning | Req | GC | Requirements will be met. |
| | | | 5 | c | Credit | Building Life-Cycle Impact Reduction | 5 | DLR | Lifecycle analysis at this phase of project likely would not yield any points. |
| 1 | | | 1 | c | Credit | Building Product Disclosure + Optimiz. - Env. Product Declaratic | 2 | DLR | Requirements will be met. |
| 1 | | | 1 | c | Credit | Building Product Disclosure + Optimiz. - Sourcing of Raw Materi | 2 | DLR | Requirements will be met. |
| 1 | | | 1 | c | Credit | Building Product Disclosure + Optimiz. - Material Ingredients | 2 | DLR | Requirements will be met. |
| 2 | | | | c | Credit | Construction and Demolition Waste Management | 2 | GC | Requirements will be met. |

| 10 | | 6 | | Indoor Environmental Quality | | | 16 | | |
|----|--|---|---|------------------------------|--------|--|-----|-------|--|
| Y | | | | d | Prereq | Minimum IAQ Performance | Req | TK1SC | Assumed project meets all requirements. |
| Y | | | | d | Prereq | Environmental Tobacco Smoke Control | Req | MCC | Assumed project meets all requirements. |
| 1 | | | 1 | d | Credit | Enhanced Indoor Air Quality Strategies | 2 | TK1SC | Requirements met. |
| 3 | | | | d | Credit | Low-Emitting Materials | 3 | DLR | 3 of 5 categories will be low-VOC. |
| 1 | | | | c | Credit | Construction IAQ Management Plan | 1 | GC | Requirements met. |
| 1 | | | 1 | c | Credit | Indoor Air Quality Assessment | 2 | MCC | Perform Building Flush-Out, Option 1 Path 1. |
| 1 | | | | d | Credit | Thermal Comfort, Design | 1 | TK1SC | Requirements met. |
| 2 | | | | d | Credit | Interior Lighting | 2 | TK1SC | Requirements met. |
| | | | 3 | d | Credit | Daylight | 3 | DLR | Not possible with density of office spaces. |
| | | | 1 | d | Credit | Quality Views | 1 | DLR | Not possible with density of office spaces. |
| 1 | | | | d | Credit | Acoustic Performance | 1 | DLR | Requirements met. |

| 5 | | 1 | Innovation & Design Process | | | | 6 | Notes | |
|---|--|---|-----------------------------|--------|---|---|-----|---|--|
| 1 | | | d | Credit | Innovation in Design: Pilot Credit: Verified C&D Recycling Rates | 1 | GC | C&D recycling facility is certified; Waste diversion rates third-party verified. | |
| 1 | | | d | Credit | Innovation in Design: Pilot Credit: Occupant Comfort Survey | 1 | MCC | Per Miguel, DBE to assume that MCC will administer survey as required to achieve credit. | |
| 1 | | | d | Credit | Innovation in Design: Exemp. Performance: Renewable Energy Production | 1 | DLR | 15% Renewable Energy = +1pt for Exemplary Performance. | |
| 1 | | | d | Credit | Innovation in Design: Purchasing Lamps | 1 | MCC | Mercury content< 35 picograms per lumen/hour avg. | |
| | | 1 | d | Credit | Innovation in Design: Pilot Credit: Financial Support for Habitat | 1 | MCC | Preserve habitat off-site, \$20/SF of total site area (incl building) donated to National Fish and Wildlife Foundation or Amazonas Sustainable Foundation. 84,000SF site= \$16,800 donation. Not available since we are achieving Sustainable Sites credit: Protect/Restore Habitat. | |
| 1 | | | c | Credit | LEED® Accredited Professional | 1 | DLR | Mike Refsland LEED AP BD+C | |

| 2 | | 2 | | Regional Priority | | | | | 4 | | Notes | |
|---|--|---|---|-------------------|--------|--|--|--|---|--|--|--|
| | | | 1 | d | Credit | Regional Priority: Access to Quality Transit | | | 1 | | Achieve 3pts Access to Quality Transit. | |
| 1 | | | | d | Credit | Regional Priority: Indoor Water Use Reduction | | | 1 | | Achieve 4pts for 40% minimum Indoor Water Use Reduction. | |
| | | | 1 | d | Credit | Regional Priority: Outdoor Water Use Reduction | | | 1 | | Achieve 2pts for 100% Outdoor Water Use Reduction (Zero irrigation). | |
| 1 | | | | d | Credit | Regional Priority: Renewable Energy Production | | | 1 | | Achieve 3pts for 10% minimum Renewable Energy Production. | |

Yes ? No

59 51

| TOTALS | | | | 59 | | | | | | | |
|--------|--|--|--|----|--|--|--|--|--|--|--|
|--------|--|--|--|----|--|--|--|--|--|--|--|

Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110

Team Goal: Gold Certification