GREEN BUILDING INITIATIVE | GREEN GLOBES BUILDING CERTIFICATION

GREEN GLOBES™ BUILDING CERTIFICATION

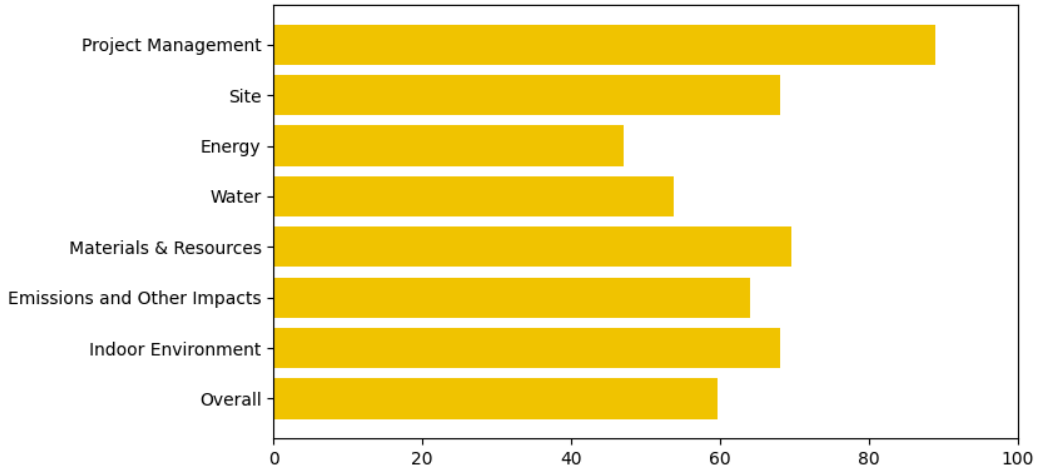
PROJECT NAME

PRELIMINARY ASSESSMENT REPORT

FEB. 2, 2021

Table of Contents

Projected Score



Assessment Area	Projected Points	Applicable Points	Projected Score
Project Management	44.5	50	89%
Site	77	113	68.1%
Energy	173.5	368	47.1%
Water	51	95	53.7%
Materials & Resources	82.5	118.5	69.6%
Emissions and Other Impacts	32	50	64%
Indoor Environment	109	160	68.1%
Total	569.5	954.5	59.7%

Project Management Score

Project Management Sections	Projected Points	Applicable Points	Projected Score
Integrated Design Process	8	9	88.9%
› Pre-Design Meetings	3	3	100%
› IDP Performance Goals	3	3	100%
› IDP Progress Meetings for Design	2	3	66.7%
› Capital Asset Plan & Business Case Summary	0	0	0%
Environmental Management During Construction	9.5	12	79.2%
› Environmental Management Systems (EMS)	2	3	66.7%
› Clean Diesel Practices	1.5	2	75%
› Building Materials and Building Envelope	2	2	100%
› IAQ During Construction	4	5	80%
Commissioning	27	29	93.1%
› Pre-Commissioning	3	3	100%
› Whole Building Commissioning	17	19	89.5%
› Training	1	1	100%
› Operations and Maintenance Manual	6	6	100%
Infection Control	0	0	0%
› Infection Control Risk Assessment	0	0	0%

Site Score

Site Sections	Projected Points	Applicable Points	Projected Score
Development Area	20	30	66.7%
› Urban Infill and Urban Sprawl	10	10	100%
› Greenfields, Brownfields, and Floodplains	10	20	50%
Ecological Impacts	17	30	56.7%
› Site Disturbance and Erosion	8	8	100%
› Tree Integration	3	3	100%
› Tree Preservation	3	4	75%
› Heat Island Effect	3	13	23.1%
› Bird Collisions	0	2	0%
Stormwater Management	13	18	72.2%
› Stormwater Management	13	18	72.2%
Landscaping	20	28	71.4%
› Landscaping	20	28	71.4%
Exterior Light Pollution	7	7	100%
› Exterior Light Pollution	7	7	100%

Energy Score

Energy Sections	Projected Points	Applicable Points	Projected Score
Energy Performance	44	100	44%
› Assessing Energy Performance	44	100	44%
› Benchmarking Energy Performance	0	0	0%
Energy Demand	7	29	24.1%
› Passive Demand Reduction	3	13	23.1%
› Power Demand Reduction	4	16	25%
Metering, Measurement, and Verification	5.5	12	45.8%
› Metering	4	8	50%
› Measurement and Verification	1.5	4	37.5%
Building Opaque Envelope	18	26	69.2%
› Thermal Resistance and Transmittance	10	10	100%
› Orientation	0	0	0%
› Fenestration Systems	8	16	50%
Lighting	16	34	47.1%
› Total Lighting Power Density	10	10	100%
› Interior Automatic Light Shut-Off Controls	1	3	33.3%
› Light Reduction Controls	0	4	0%
› Daylighting	0	6	0%
› Controls for Daylighted Zones	0	6	0%
› Exterior Luminaires and Controls	5	5	100%
HVAC Systems and Controls	39	53	73.6%
› Building Automation System	10	10	100%
› Cooling Equipment	6	13	46.2%
› Cooling Towers	8	8	100%
› Heat Pumps	0	0	0%
› Heating Equipment	2	8	25%
› Condensate Recovery	2	3	66.7%

Energy Sections	Projected Points	Applicable Points	Projected Score
› Steam Traps	2	2	100%
› Domestic Hot Water Heaters	3	3	100%
› Variable Speed Control of Pumps	6	6	100%
Other HVAC Systems and Controls	19	31	61.3%
› Minimizing Re-Heat and Re-Cool	3	6	50%
› Air Economizers	2	3	66.7%
› Fans and Ductwork	6	7	85.7%
› Demand Controlled Ventilation	2	9	22.2%
› Variable Refrigerant Flow Systems	6	6	100%
Other Energy Efficient Equipment and Measures	4	9	44.4%
› Elevators and Escalators	0	3	0%
› Other Energy Efficient Equipment	4	6	66.7%
Renewable Energy	0	50	0%
› On-site Renewable Energy	0	32	0%
› Off-site Renewable Energy	0	18	0%
Energy Efficient Transportation	21	24	87.5%
› Energy Efficient Transportation	21	24	87.5%

Water Score

Water Sections	Projected Points	Applicable Points	Projected Score
Water Consumption	18	36	50%
› Water Consumption	18	36	50%
Cooling Towers	5	9	55.6%
› Cooling Towers	5	9	55.6%
Boilers and Water Heaters	4	4	100%
› Boilers and Water Heaters	4	4	100%
Water Intensive Applications	6.5	10	65%
› Commercial Food Service Equipment	4	6	66.7%
› Laboratory and Medical Equipment	2.5	4	62.5%
› Laundry Equipment	0	0	0%
› Special Water Features	0	0	0%
Water Treatment	2	2	100%
› Water Treatment	2	2	100%
Alternate Sources of Water	0	5	0%
› Alternate Sources of Water	0	5	0%
Metering	3	11	27.3%
› Metering	3	11	27.3%
Irrigation	12.5	18	69.4%
› Irrigation	12.5	18	69.4%

Materials & Resources Score

Materials & Resources Sections	Projected Points	Applicable Points	Projected Score
Building Core and Shell	33	33	100%
› Building Core and Shell	33	33	100%
Interior Fit-Out	0	16	0%
› Interior Fit-Out	0	16	0%
Re-Use of Existing Structures	5	20	25%
› Facades	0	6	0%
› Structural Systems	0	6	0%
› Non-Structural Elements	5	8	62.5%
Waste	6.5	9	72.2%
› Construction Waste	5	7	71.4%
› Operational Waste	1.5	2	75%
Building Service Life Plan	5	7	71.4%
› Building Service Life Plan	5	7	71.4%
Resource Conservation	6	6	100%
› Minimized Use of Raw Materials	3	3	100%
› Multi-Functional Assemblies	1	1	100%
› Deconstruction and Disassembly	2	2	100%
Building Envelope - Roofing/Openings	10	10	100%
› Roofing Membrane Assemblies and Systems	3	3	100%
› Flashings	3	3	100%
› Roof and Wall Openings	4	4	100%
Envelope - Foundation & Waterproofing	5.5	5.5	100%
› Foundation Systems	3.5	3.5	100%
› Below Grade Wall Slabs and Above Grade Horizontal Assemblies	2	2	100%
Envelope - Cladding	4.5	5	90%
› Exterior Wall Cladding Systems	3	3	100%

Materials & Resources Sections	Projected Points	Applicable Points	Projected Score
› Rainscreen Wall Cladding	1.5	2	75%
Envelope - Barriers	7	7	100%
› Air Barriers	4	4	100%
› Vapor Retarders	3	3	100%

Emissions and Other Impacts Score

Emissions and Other Impacts Sections	Projected Points	Applicable Points	Projected Score
Heating	14	18	77.8%
› Heating	14	18	77.8%
Cooling	15	29	51.7%
› New or Existing Equipment	0	0	0%
› Ozone-Depleting Potential	6	10	60%
› Global Warming Potential	3	10	30%
› Leak Detection	6	9	66.7%
Janitorial Equipment	3	3	100%
› Janitorial Equipment	3	3	100%

Indoor Environment Score

Indoor Environment Sections	Projected Points	Applicable Points	Projected Score
Ventilation	32	37	86.5%
› Ventilation Air Quantity	11	11	100%
› Air Exchange	8	8	100%
› Ventilation Intakes and Exhausts	8	8	100%
› CO2 Sensing and Ventilation Control Equipment	0	5	0%
› Air Handling Equipment	5	5	100%
Source Control and Measurement of Indoor Pollutants	40	46	87%
› Volatile Organic Compounds	10	10	100%
› Moisture, Vapor, and Infection Mitigation Methods	8	8	100%
› Access for HVAC Maintenance	4	4	100%
› Carbon Monoxide Monitoring	4	4	100%
› Wet Cooling Towers	1	2	50%
› Domestic Hot Water Systems	2	2	100%
› Humidification and Dehumidification Systems	3	3	100%
› Pest and Contamination Control	3	3	100%
› Other Indoor Pollutants (Tobacco & Radon)	3	8	37.5%
› Ventilation and Physical Isolation for Specialized Activities	2	2	100%
Lighting Design and Systems	15	30	50%
› Daylighting	2	17	11.8%
› Lighting Design	13	13	100%
Thermal Comfort	14	18	77.8%
› Thermal Comfort Strategies	10	12	83.3%
› Thermal Comfort Design	4	6	66.7%
Acoustic Comfort	8	29	27.6%
› Acoustic Comfort Design	7	18	38.9%
› Mechanical, Plumbing, and Electrical	1	11	9.1%

Point Variances

3.2.2.2.1.1

Are the following integrated into the landscape plan:

- Large trees?

Maximum Points Possible:	2
Point Status:	Not Applicable
Projected Points:	0
Client Evaluation Points:	0
Variance: Projected Points:	0
Applicable Points:	0
Client Evaluation Applicable Points:	2
Variance: Applicable Points:	-2

Assessor Comment

The project is located on an existing site in an urban area with no large trees and limited space for landscaping.

3.3.4.2.1

Is the building oriented such that the ratio of the north/south fenestration area to the east/west fenestration area was between 1.25 and 2.00?

Maximum Points Possible:	5
Point Status:	Not Applicable
Projected Points:	0
Client Evaluation Points:	0
Variance: Projected Points:	0
Applicable Points:	0
Client Evaluation Applicable Points:	5
Variance: Applicable Points:	-5

Assessor Comment

The project is located on an existing site with limited options for orientation.

3.7.2.9.3

Have the following measures been met in order to address radon:

A site-specific assessment of radon potential has been conducted? Radon mitigation measures are specified?

Maximum Points Possible:	5
Point Status:	Unlikely to be Verified
Projected Points:	0
Client Evaluation Points:	0
Variance: Projected Points:	0
Applicable Points:	5
Client Evaluation Applicable Points:	0
Variance: Applicable Points:	5

Assessor Comment

The project is located in EPA Zone 1 determined to have the Highest Potential for elevated radon levels. See recommendation.

3.7.5.2.5.1

Has an Acoustical Consultant or Acoustician signed off on the design such that it complies with the following best practices to minimize noise from the electrical system:

- Low-noise ballasts are installed in quiet areas and all other areas where speech intelligibility is important?

Maximum Points Possible:	1
Point Status:	Verified
Projected Points:	1
Client Evaluation Points:	0
Variance: Projected Points:	1
Applicable Points:	1
Client Evaluation Applicable Points:	1
Variance: Applicable Points:	0

Assessor Comment

LED lighting meets applicable criteria.

Variance: Projected Points	1
Variance: Applicable Points	-2

Recommendations

3.1.1.3.1.1

Did the integrated design process (IDP) team hold progress meetings prior to the respective completion of the following project phases:

- At the Concept Design Phase?

Projected Points: 0.0

Applicable Points: 0.5

Assessor Recommendation

Document IDP team meetings at the Concept Design Phase.

3.1.1.3.1.2

Did the integrated design process (IDP) team hold progress meetings prior to the respective completion of the following project phases:

- At the Design Development Phase?

Projected Points: 0.0

Applicable Points: 0.5

Assessor Recommendation

Document IDP team meetings at the Design Development Phase.

3.1.2.1.1

Is there a requirement that the General Contractor must document the following elements as part of their Environmental Management System (EMS)? Check all those that apply.

Projected Points: 2.0

Applicable Points: 3.0

Assessor Recommendation
Include the Environmental Risk Assessment,
Environmental Management Roles, Responsibilities and Reporting Structure in the EMS.

3.1.2.2.1.2

Is there a requirement that the General Contractor must supplement mandatory regulatory requirements by implementing one or more of the following “clean diesel” strategies:

- Use of clean fuels?

Projected Points: 0.0

Applicable Points: 0.5

Assessor Recommendation
Require use of clean fuels.

3.1.3.2.2

Is there a requirement to field-test partitions for noise isolation?

Projected Points: 0.0

Applicable Points: 1.0

Assessor Recommendation
Include testing of interior partitions in commissioning.

3.1.3.2.3

Is there a requirement that the building system commissioning will be conducted in accordance with ASHRAE Guideline 0-2005: The Commissioning Process, Annex L (or more recent version)?

Projected Points: 0.0

Applicable Points: 1.0

Assessor Recommendation

Clarify commissioning requirements comply with ASHRAE Guidelines.

3.1.4.1.1

Was an infectious disease prevention and mitigation plan questionnaire created that demonstrated how the below items were influenced:

Cleaning & Disinfecting
Materials Selection
Water Quality Maintenance and use of Water Treatment Specialist
Ventilation
Design for Space Utilization
Mobility
Operations Manual & Training Plan

Projected Points: 0.0

Applicable Points: 0

Assessor Recommendation

Develop an infectious disease prevention and mitigation plan questionnaire.

3.2.1.2.1

Is the building being constructed on a remediated brownfield or remediated Superfund site?

Projected Points: 0.0

Applicable Points: 10.0

Assessor Recommendation

Consider remediated sites for future projects.

3.2.2.3.2.1.2

In the absence of Tree Preservation Plan by a certified Arborist, do the specifications require that the General Contractor will implement the following best practices for tree protection during construction:

- Root protection will be installed to protect tree roots from compaction during construction?

Projected Points: 0.0

Applicable Points: 1.0

Assessor Recommendation

Provide root protection to protect tree roots from compaction during construction.

3.2.2.4.1

What percentage by area of the roof is vegetated, and/or has a high Solar Reflectance Index (SRI) as prescribed based on the slope of the roof?

Projected Points: 0.0

Applicable Points: 6.0

Assessor Recommendation

Specify a roof with a high SRI.

3.2.2.4.3

What percentage (by area) of paved surfaces outside of the building footprint will be shaded by trees within 15 years?

Projected Points: 0.0

Applicable Points: 3.0

Assessor Recommendation

Provide more trees to shade paving.

3.2.2.5.1.1

Are the following measures required to help ensure that birds perceive windows as being a solid object:

- Visual markers

Projected Points: 0.0

Applicable Points: 1.0

Assessor Recommendation

Provide visual markers to help ensure that birds perceive windows as being a solid object:.

3.2.2.5.1.2

Are the following measures required to help ensure that birds perceive windows as being a solid object:

- Avoidance of reflections?

Projected Points: 0.0

Applicable Points: 1.0

Assessor Recommendation

Specify glazing and include other measures to avoid reflections.

3.2.3.1.3

Is there a Stormwater Management Report by a Civil Engineer that shows that:

- The site will retain at least 50% of the total average annual rainfall volume as per a Site Water Balance Assessment, to be included in the Stormwater Management Report?

Projected Points: 0.0

Applicable Points: 5.0

Assessor Recommendation

Incorporate storm water features to retain more of the stormwater on the site.

3.2.4.2.2

Does the Landscape and Irrigation Plan include the following:

- Structural limitations (e.g. shading, utilities, overhangs, lights) that would impact the location and growth of plants?

Projected Points: 0.0

Applicable Points: 1.0

Assessor Recommendation

Consider structural limitations in the landscape design.

3.2.4.6

Is there a requirement that 15% of planned impervious walkways, patios, and driveways will be installed with pervious materials?

Projected Points: 0.0

Applicable Points: 4.0

Assessor Recommendation

Install more pervious paving to reduce runoff.

3.3.2.1.4

Is there a thermal energy storage system that is capable of offsetting the peak cooling demand by more than 30%

Projected Points: 0.0

Applicable Points: 10.0

Assessor Recommendation

Incorporate a thermal energy storage system to offset peak cooling demand.

3.3.3.1.2.1

Is there sub-metering installed for the following systems:

- Lighting and lighting controls by floor or by zones with floor areas no greater than 20,000 ft2 (1860 m2)?

Projected Points: 0.0

Applicable Points: 0.5

Assessor Recommendation

Provide sub-metering for lighting and lighting controls.

3.3.3.1.2.2

Is there sub-metering installed for the following systems:

- Plug loads by floor or by zones no greater than 20,000 ft2 (1860 m2)?

Projected Points: 0.0

Applicable Points: 0.5

Assessor Recommendation

Provide sub-metering for plug loads.

3.3.3.1.2.3

Is there sub-metering installed for the following systems:

- Major electric HVAC equipment 5 HP or greater?

Projected Points: 0.0

Applicable Points: 0.5

Assessor Recommendation

Provide sub-metering for major electric HVAC equipment.

3.3.3.1.2.5

Is there sub-metering installed for the following systems:

- On-site renewable energy power generation?

Projected Points: 0.0

Applicable Points: 0.5

Assessor Recommendation

Verify this credit is applicable.

3.3.3.1.2.7

Is there sub-metering installed for the following systems:

- Specialty or process electrical equipment?

Projected Points: 0.0

Applicable Points: 0.5

Assessor Recommendation

Provide sub-metering for applicable equipment.

3.3.3.1.2.8

Is there sub-metering installed for the following systems:

- Critical HVAC controls?

Projected Points: 0.0

Applicable Points: 0.5

Assessor Recommendation

Provide sub-metering for applicable HVAC controls.

3.3.3.2.1.1

Does the Energy Metering Reporting Plan include the following monitoring protocols (e.g. daily, monthly, seasonal, by floor, etc.)?

- Lighting and lighting controls: daily demand and consumption by floor or by zones with floor areas no greater than 20,000 ft2 (1860 m2)?

Projected Points: 0.0

Applicable Points: 0.5

Assessor Recommendation

Develop an Energy Metering Reporting Plan with monitoring protocols for lighting and lighting controls.

3.3.3.2.1.2

Does the Energy Metering Reporting Plan include the following monitoring protocols (e.g. daily, monthly, seasonal, by floor, etc.)?

- Plug loads: daily demand and consumption by floor or by zones no greater than 20,000 ft2 (1860 m2)?

Projected Points: 0.0

Applicable Points: 0.5

Assessor Recommendation

Develop an Energy Metering Reporting Plan with monitoring protocols for plug loads.

3.3.3.2.1.3

Does the Energy Metering Reporting Plan include the following monitoring protocols (e.g. daily, monthly, seasonal, by floor, etc.)?

- Major electric HVAC equipment 5 HP or greater: seasonal peak demand and monthly consumption?

Projected Points: 0.0

Applicable Points: 0.5

Assessor Recommendation

Develop an Energy Metering Reporting Plan with monitoring protocols for major electric equipment.

3.3.3.2.1.5

Does the Energy Metering Reporting Plan include the following monitoring protocols (e.g. daily, monthly, seasonal, by floor, etc.)?

- On-site renewable energy power generation: monthly peak output, monthly production, and site specific weather characteristics?

Projected Points: 0.0

Applicable Points: 0.5

Assessor Recommendation

Verify renewable energy is applicable.

3.3.3.2.1.7

Does the Energy Metering Reporting Plan include the following monitoring protocols (e.g. daily, monthly, seasonal, by floor, etc.)?

- Specialty or process electrical equipment: daily demand and consumption.

Projected Points: 0.0

Applicable Points: 0.5

Assessor Recommendation

Develop an Energy Metering Reporting Plan with monitoring protocols for applicable equipment.

3.3.5.3.1

How many light fixtures have lighting controls that can reduce the lighting load by at least 50% from full lighting using any of the following technologies:

Dual switching of alternate rows or luminaires? Switching of individual lamps independently of adjacent lamps within a luminaire? Switching of each lamp or luminaire? Occupancy sensors within the space?

Projected Points: 0.0

Applicable Points: 4.0

Assessor Recommendation

Provide light reduction controls.

3.3.5.4.1

Are the regularly occupied side-lit daylighted areas (vertical fenestration) and the top-lit daylighted areas (skylights) equal to at least 10% of the net building area?

Projected Points: 0.0

Applicable Points: 3.0

Assessor Recommendation

Increase the amount of daylight for regularly occupied spaces.

3.3.5.4.2

Is the effective aperture for vertical fenestration (EAVF) equal to or greater than:

0.10 EAVF for climate zones (CZ) 1, 2, 3A, or 3B? 0.15 EAVF for climate zones 3C, 4, 5, 6, 7, or 8?

Projected Points: 0.0

Applicable Points: 3.0

Assessor Recommendation

Increase the effective aperture for vertical fenestration.

3.3.5.5.1

Do all small daylit areas have manual or automatic photocell lighting controls?

Projected Points: 0.0

Applicable Points: 3.0

Assessor Recommendation

Provide photocell lighting controls for small daylit areas.

3.3.5.5.2

Do all large daylit areas have automatic photocell lighting controls?

Projected Points: 0.0

Applicable Points: 3.0

Assessor Recommendation

Provide photocell lighting controls for large daylit areas.

3.3.7.2.1

Are there air economizers with a mode that uses outdoor air for cooling in place of mechanical cooling?

Projected Points: 0.0

Applicable Points: 1.0

Assessor Recommendation

Explore opportunities to use outdoor air for cooling.

3.3.7.3.4

Do motors for fans meet NEMA's Premium® “Energy Efficiency Motor Program”?

Projected Points: 0.0

Applicable Points: 1.0

Assessor Recommendation

Specify NEMA Premium motors.

3.3.7.4.1

Are there occupancy and/or CO2 sensors to control ventilation rates in regularly occupied spaces that may experience frequent variations in the number of occupants?

Projected Points: 0.0

Applicable Points: 4.0

Assessor Recommendation

Incorporate CO2 sensors into the HVAC design.

3.3.7.4.3.1

Do the ventilation heat recovery systems include the following:

- Pressure-drop impact on fan power?

Projected Points: 0.0

Applicable Points: 1.0

Assessor Recommendation

Consider incorporating applicable features into the ventilation heat recovery systems.

3.3.7.4.3.2

Do the ventilation heat recovery systems include the following:

- Bypass for economizer operation, if applicable?

Projected Points: 0.0

Applicable Points: 2.0

Assessor Recommendation

Consider incorporating applicable features into the ventilation heat recovery systems

3.3.8.1.1

Are there regenerative braking elevators?

Projected Points: 0.0

Applicable Points: 3.0

Assessor Recommendation

Incorporate regenerative braking into elevators.

3.3.8.2.1.3

Is the building's energy efficiency increased through the use of one or more of the following energy efficient equipment:

- Others?

Projected Points: 0.0

Applicable Points: 2.0

Assessor Recommendation

Consider incorporating ENERGY STAR rated equipment or other energy efficient equipment into the design.

3.3.9.1.1

Has a study been conducted to determine the technical feasibility and life-cycle cost effectiveness of on-site renewable energy?

Projected Points: 0.0

Applicable Points: 9.0

Assessor Recommendation

Conduct a study to determine the technical feasibility and life-cycle cost effectiveness of on-site renewable energy.

3.3.9.1.2

Were the recommendations of the Feasibility Study implemented?

Projected Points: 0.0

Applicable Points: 23.0

Assessor Recommendation

Implement cost effective on site renewable energy recommendations.

3.3.9.2.1

Has the building owner committed to sign a contract to purchase either certified "green" power or certified renewable energy certificates (RECs) with a minimum three-year commitment; and if so, for what percentage of total electrical consumption of the building?

Projected Points: 0.0

Applicable Points: 18.0

Assessor Recommendation

Purchase either certified "green" power or certified renewable energy certificates (RECs).

3.3.10.5

Is there sheltered bicycle parking for:

At least 5% of the maximum number of office building occupants?
or

At least 50% of units in a multi-family residential building?

Projected Points: 0.0

Applicable Points: 3.0

Assessor Recommendation
Provide sheltered bicycle parking.

3.4.2.3

Are there flow meters on the make-up and blowdown lines, and conductivity controllers?

Projected Points: 0.0

Applicable Points: 1.0

Assessor Recommendation
Specify flow meters on the make-up and blowdown lines, and conductivity controllers.

3.4.2.4

What percentage of cooling consists of dry cooling?

Projected Points: 0.0

Applicable Points: 3.0

Assessor Recommendation
Incorporate dry cooling into the cooling tower system.

3.4.4.1.1.1

Do food services avoid water intensive equipment as follows:

- There is no once-through water-cooled equipment?

Projected Points: 0.0

Applicable Points: 1.0

Assessor Recommendation

Explore options to reduce the use of once-through water-cooled equipment.

3.4.4.1.1.2

Do food services avoid water intensive equipment as follows:

- There is no water-fed garbage disposal?

Projected Points: 0.0

Applicable Points: 1.0

Assessor Recommendation

Consider alternatives to water-fed garbage disposals.

3.4.4.2.1.2

Are steam sterilizers equipped with the following:

- Water tempering devices that only allow water to flow when the discharge of condensate or hot water from the sterilizer exceeds 140°F (60°C)?

Projected Points: 0.0

Applicable Points: 0.5

Assessor Recommendation

Incorporate applicable water tempering devices.

3.4.4.2.2

Does laboratory or medical equipment use non-potable water for once-through cooling?

Projected Points: 0.0

Applicable Points: 1.0

Assessor Recommendation

Explore options to use non-potable water for once-through cooling.

3.4.6.1

What percentage of water for non-potable uses will be harvested on-site or reclaimed?

Projected Points: 0.0

Applicable Points: 5.0

Assessor Recommendation

Explore options to use reclaimed or water harvested on site for non-potable uses.

3.4.7.1

Is there sub-metering for all water-intensive indoor applications such as commercial kitchens, commercial laundry, labs, pools, spas, etc.?

Projected Points: 0.0

Applicable Points: 3.0

Assessor Recommendation

Provide sub-metering for water-intensive indoor applications.

3.4.7.3

Are all water meters and sub-meters linked to a Meter Data Management System to store and report water consumption data?

Projected Points: 0.0

Applicable Points: 3.0

Assessor Recommendation

Link water meters and sub-meters to a Meter Data Management System to store and report water consumption data.

3.4.7.4

Are chilled or hot water loops equipped with makeup meters?

Projected Points: 0.0

Applicable Points: 2.0

Assessor Recommendation

Incorporate make up meters for chilled or hot water loops.

3.4.8.2.1

Does the irrigation system include any of the following features:

- Gutter downspouts directed into planted areas or other landscape features?

OR

Onsite cisterns and/or rainwater harvesting system, or reclaimed water system?

Projected Points: 0.0

Applicable Points: 1.0

Assessor Recommendation

Utilize rainwater for irrigation.

3.4.8.2.3

Does the irrigation system include any of the following features:

- EPA WaterSense/Smart Water Application Technology (SWAT), smart controllers (ET, rain sensors, or soil moisture sensors), and automatic rain shut off devices?

Projected Points: 0.0

Applicable Points: 1.0

Assessor Recommendation

Specify smart controllers and automatic rain shut off devices for the irrigation system.

3.4.8.2.4

Does the irrigation system include any of the following features:

- Capability to regulate precipitation rates on sprinkler heads for differing hydrozones?

Projected Points: 0.0

Applicable Points: 0.5

Assessor Recommendation

Specify capability to regulate precipitation rates on sprinkler heads.

3.5.2.1.1

Was life cycle assessment and relative comparison of a minimum of two alternative interior fit-outs (including finishes and furnishings) performed during design, which resulted in the selection of an interior fit-out that has the least anticipated environmental impact based upon comparable applications?

Projected Points: 0.0

Applicable Points: 16.0

Assessor Recommendation

Prepare an LCA to compare and select the interior fit-out design with the least environmental impact. Or, consider Path B: Prescriptive Path and provide EPDs for interior fit-out products.

3.5.3.1.1

What percentage of the façade from an existing building on the site is retained and incorporated in the new design?

Projected Points: 0.0

Applicable Points: 6.0

Assessor Recommendation

Incorporate exterior components of the existing building into the new design.

3.5.3.2.1

What percentage of structural systems (e.g. interior walls) from an existing building on the site is retained and incorporated in the new design?

Projected Points: 0.0

Applicable Points: 6.0

Assessor Recommendation

Incorporate components of the existing building's structural system into the new design.

3.5.4.2.1.4

Does the building design address operations-related recycling programs through one or more of the following:

- Operational flow for handling and storage facilities for composting?

Projected Points: 0.0

Applicable Points: 0.5

Assessor Recommendation

Incorporate facilities for handling and storing composting.

3.5.5.1.2

Is there a preliminary Building Service Life Plan that includes the expected service life estimates for the following:

- The structural systems, building envelope, and hardscape materials that will need to be replaced during the life of the building?

Projected Points: 0.0

Applicable Points: 2.0

Assessor Recommendation

Provide the BSLP for the structural systems, building envelope, and hardscape materials.

3.5.9.2.2

Are rainscreen cladding assemblies required to pass requirements of AAMA 508-07 laboratory-testing?

Projected Points: 0.0

Applicable Points: 0.5

Assessor Recommendation

Include requirements for testing rainscreen cladding assemblies.

3.6.2.4.1

Is there a requirement that equipment installer(s) test remote commercial systems (e.g. supermarket refrigeration) as per GreenChill Best Practices Guideline Ensuring Leak-Tight Installations of Commercial Refrigeration Equipment?

Projected Points: 0.0

Applicable Points: 3.0

Assessor Recommendation

Verify criteria is applicable.

3.7.1.4.1

Do rooms that are occupied by several people (e.g. open offices) and those that have variable occupancy (e.g. meeting rooms, assembly areas) have CO2 sensing and ventilation control equipment?

Projected Points: 0.0

Applicable Points: 5.0

Assessor Recommendation

Consider options to incorporate CO2 sensing and ventilation control.

3.7.2.9.3

Have the following measures been met in order to address radon:

A site-specific assessment of radon potential has been conducted? Radon mitigation measures are specified?

Projected Points: 0.0

Applicable Points: 5.0

Assessor Recommendation

Provide a site-specific assessment of radon potential to determine possible risk.

3.7.3.1.1

What percent of floor area occupied for critical visual tasks achieves a minimum daylight factor (DF) of 2 (excluding all direct sunlight penetration)?

Projected Points: 0.0

Applicable Points: 7.0

Assessor Recommendation

Provide more daylight for critical visual tasks.

3.7.3.1.3

Are there shading devices on southern, western, and eastern exposures?

Projected Points: 0.0

Applicable Points: 1.0

Assessor Recommendation

Provide exterior shading devices.

3.7.5.1.2

Has an Acoustical Consultant or Acoustician signed off on the design that shows that open office areas conform to ASTM E1573-02 with respect to spatial uniformity, temporal uniformity, spectrum shape, and sound level?

Projected Points: 0.0

Applicable Points: 1.0

Assessor Recommendation

Include an Acoustical Consultant on the design team to review the design of open office areas.

3.7.5.1.3.1

Has an Acoustical Consultant or Acoustician signed off on a design that complies with minimum Sound Transmission Class (STC) ratings of floor/ceiling assemblies, walls and doors between acoustically separated areas (e.g. learning spaces), and adjacent spaces as follows and as applicable:

- STC-45 where the adjacent space is a corridor, stair, office, or conference room?

Projected Points: 0.0

Applicable Points: 1.0

Assessor Recommendation

Specify walls with an STC-45 rating for applicable spaces.

3.7.5.1.3.2

Has an Acoustical Consultant or Acoustician signed off on a design that complies with minimum Sound Transmission Class (STC) ratings of floor/ceiling assemblies, walls and doors between acoustically separated areas (e.g. learning spaces), and adjacent spaces as follows and as applicable:

- STC-50 where the adjacent space is a quiet area, speech clinic, health clinic, classroom, or an exterior wall?

Projected Points: 0.0

Applicable Points: 1.0

Assessor Recommendation

Specify walls with an STC-50 rating for specified quiet areas.

3.7.5.1.3.3

Has an Acoustical Consultant or Acoustician signed off on a design that complies with minimum Sound Transmission Class (STC) ratings of floor/ceiling assemblies, walls and doors between acoustically separated areas (e.g. learning spaces), and adjacent spaces as follows and as applicable:

- STC-50 for doors to quiet areas?

Projected Points: 0.0

Applicable Points: 1.0

Assessor Recommendation

Specify doors to quiet areas with an STC-50 rating.

3.7.5.1.4

Does the Impact Insulation Class (IIC) design of all floor-ceiling assemblies have a minimum rating of IIC-50?

Projected Points: 0.0

Applicable Points: 2.0

Assessor Recommendation

Specify floor-ceiling assemblies with a minimum IIC rating of 50.

3.7.5.1.5

Has an Acoustical Consultant or Acoustician signed off on a design that shows Reverberation Time (RT) in quiet areas and all other areas where speech intelligibility is important does not exceed the following values as applicable:

0.6 seconds in spaces less than 10,000 cu. ft. in volume? 0.7 seconds in spaces 10,000 - 20,000 cu. ft. in volume? Compliance with Annex C of ANSI/ASA S12.60-2010/Part 1 in spaces larger than 20,000 cu. ft. in volume?

Projected Points: 0.0

Applicable Points: 5.0

Assessor Recommendation

Verify the Reverberation Time in quiet areas does not exceed applicable values.

3.7.5.2.1.1

Has an Acoustical Consultant or Acoustician signed off on a design that complies with minimum background sound levels associated with mechanical systems as follows:

- Airborne sound power levels from HVAC unit do not exceed the Room Criteria detailed in ASHRAE Systems Application Handbook 2007, Chapter 47, Table 42 for listed spaces when HVAC units are in operation?

Projected Points: 0.0

Applicable Points: 1.5

Assessor Recommendation

Include an Acoustical Consultant on the design team to verify the MEP design meets applicable criteria.

3.7.5.2.1.2

Has an Acoustical Consultant or Acoustician signed off on a design that complies with minimum background sound levels associated with mechanical systems as follows:

- Spaces are designed such that room background noise using the Room Criteria (RC) ratings complies with ASHRAE Systems Application Handbook-2007, Chapter 47, Table 42.

Projected Points: 0.0

Applicable Points: 1.0

Assessor Recommendation

Include an Acoustical Consultant on the design team to verify the MEP design meets applicable criteria.

3.7.5.2.2.1

Has an Acoustical Consultant or Acoustician signed off on the design such that there are the following measures to minimize airborne noise from the HVAC system:

- Duct transitions are spread out and graduated to minimize generation of turbulence and air flow separations?

Projected Points: 0.0

Applicable Points: 0.5

Assessor Recommendation

Include an Acoustical Consultant on the design team to verify the MEP design meets applicable criteria.

3.7.5.2.2.2

Has an Acoustical Consultant or Acoustician signed off on the design such that there are the following measures to minimize airborne noise from the HVAC system:

- Secondary attenuators are located immediately downstream of duct fittings that would otherwise generate noise?

Projected Points: 0.0

Applicable Points: 0.5

Assessor Recommendation

Include an Acoustical Consultant on the design team to verify the MEP design meets applicable criteria.

3.7.5.2.2.3

Has an Acoustical Consultant or Acoustician signed off on the design such that there are the following measures to minimize airborne noise from the HVAC system:

- Air flow velocities in low pressure ductwork did not exceed the following values?

For main duct trunk lines: 900 f/m (4.5 m/s)For branch ducts: 700 f/m (3.5 m/s)For final run outs: 400 f/m (2.0 m/s)For main vertical ducts in shafts: 1200 f/m (6 m/s)

Projected Points: 0.0

Applicable Points: 0.5

Assessor Recommendation

Include an Acoustical Consultant on the design team to verify the MEP design meets applicable criteria.

3.7.5.2.2.4

Has an Acoustical Consultant or Acoustician signed off on the design such that there are the following measures to minimize airborne noise from the HVAC system:

- Where significant cross talk paths exist between two habitable spaces, there are sound attenuators and/or silencers, or ducts are designed in a "Z" configuration?

Projected Points: 0.0

Applicable Points: 0.5

Assessor Recommendation

Include an Acoustical Consultant on the design team to verify the MEP design meets applicable criteria.

3.7.5.2.2.5

Has an Acoustical Consultant or Acoustician signed off on the design such that there are the following measures to minimize airborne noise from the HVAC system:

- HVAC grilles and diffusers were selected that comply with ANSI/ASA S12.60-2010/Part 1?

Projected Points: 0.0

Applicable Points: 0.5

Assessor Recommendation

Include an Acoustical Consultant on the design team to verify the MEP design meets applicable criteria.

3.7.5.2.3.1

Has an Acoustical Consultant or Acoustician signed off on the design such that it adheres to the following best practices to minimize structure-borne noise from the HVAC system:

- Fans and other powered HVAC equipment are acoustically separated from the structure using vibration isolators?

Projected Points: 0.0

Applicable Points: 1.0

Assessor Recommendation

Include an Acoustical Consultant on the design team to verify the MEP design meets applicable criteria.

3.7.5.2.3.2

Has an Acoustical Consultant or Acoustician signed off on the design such that it adheres to the following best practices to minimize structure-borne noise from the HVAC system:

- Ducts are supported on resilient mounts to isolate them from the structural system, and ducts are isolated using resilient material where they pass through walls?

Projected Points: 0.0

Applicable Points: 1.0

Assessor Recommendation

Include an Acoustical Consultant on the design team to verify the MEP design meets applicable criteria.

3.7.5.2.4.1

Has an Acoustical Consultant or Acoustician signed off on the design such that it adheres to the following best practices to mitigate noise from the plumbing system:

- Piping was not run above quiet areas and learning spaces with the exception of sprinklers and radiant heating systems?

Projected Points: 0.0

Applicable Points: 1.0

Assessor Recommendation

Include an Acoustical Consultant on the design team to verify the MEP design meets applicable criteria.

3.7.5.2.4.2

Has an Acoustical Consultant or Acoustician signed off on the design such that it adheres to the following best practices to mitigate noise from the plumbing system:

- Waste water piping noise is mitigated using cast iron pipe or with acoustic insulation above quiet areas and learning spaces, and a water hammer arrester was used?

Projected Points: 0.0

Applicable Points: 1.0

Assessor Recommendation

Include an Acoustical Consultant on the design team to verify the MEP design meets applicable criteria.

3.7.5.2.5.2

Has an Acoustical Consultant or Acoustician signed off on the design such that it complies with the following best practices to minimize noise from the electrical system:

- Noise from light fixtures and other electrical fixtures does not exceed values indicated in ANSI/ASA S12.60-2010/Part 1?

Projected Points: 0.0

Applicable Points: 1.0

Assessor Recommendation

Include an Acoustical Consultant on the design team to verify the MEP design meets applicable criteria.

Verification Required

3.1.1.2.1

For which of the following were (qualitative) green design goals established at the pre-design phase?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Provide documented green design goals.

3.1.1.2.2

For which of the following were performance objectives (metrics) established at the pre-design phase?

Status:	Likely to be Verified
Projected Points:	2
User Self-Evaluation Points:	2
Point Variance:	0

Assessor Comment

Provide documented performance objectives.

3.1.1.3.1.1

Did the integrated design process (IDP) team hold progress meetings prior to the respective completion of the following project phases:

- At the Concept Design Phase?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.1.1.3.1.2

Did the integrated design process (IDP) team hold progress meetings prior to the respective completion of the following project phases:

- At the Design Development Phase?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.1.1.3.1.3

Did the integrated design process (IDP) team hold progress meetings prior to the respective completion of the following project phases:

- At the Construction Documents Phase?

Status:	Likely to be Verified
Projected Points:	0.5
User Self-Evaluation Points:	0.5
Point Variance:	0

Assessor Comment

Provide IDP team meeting minutes from the CD Phase.

3.1.1.3.2

Is there a requirement that the integrated design process (IDP) team hold progress meetings prior to the completion of the following project milestones? Check all that apply.

Status:	Likely to be Verified
Projected Points:	1.5
User Self-Evaluation Points:	1.5
Point Variance:	0

Assessor Comment

Document IDP team meetings at established milestones during construction.

3.1.2.1.1

Is there a requirement that the General Contractor must document the following elements as part of their Environmental Management System (EMS)? Check all those that apply.

Status:	Likely to be Verified
Projected Points:	2
User Self-Evaluation Points:	2
Point Variance:	0

Assessor Comment

Provide the GC's EMS. See Recommendation.

3.1.2.2.1.1

Is there a requirement that the General Contractor must supplement mandatory regulatory requirements by implementing one or more of the following “clean diesel” strategies:

- A vehicle “idling-reduction” directive?

Status:	Likely to be Verified
Projected Points:	0.5
User Self-Evaluation Points:	0.5
Point Variance:	0

Assessor Comment

Provide the GC's records of clean diesel strategies.

3.1.2.2.1.2

Is there a requirement that the General Contractor must supplement mandatory regulatory requirements by implementing one or more of the following “clean diesel” strategies:

- Use of clean fuels?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.1.2.2.1.3

Is there a requirement that the General Contractor must supplement mandatory regulatory requirements by implementing one or more of the following “clean diesel” strategies:

- Engine upgrades that reduce emissions?

Status:	Likely to be Verified
Projected Points:	0.5
User Self-Evaluation Points:	0.5
Point Variance:	0

Assessor Comment

Provide the GC's records of clean diesel strategies.

3.1.2.2.1.4

Is there a requirement that the General Contractor must supplement mandatory regulatory requirements by implementing one or more of the following “clean diesel” strategies:

- Engine maintenance records?

Status:	Likely to be Verified
Projected Points:	0.5
User Self-Evaluation Points:	0.5
Point Variance:	0

Assessor Comment

See above.

3.1.2.3.1.1

Is there a requirement for the following construction best-practices to protect building materials and control mold:

- Building materials made of organic material or those that could absorb moisture are protected in transit and at the construction site from contact with moisture and from collecting organic matter such as leaves, soil or insects?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

The project specifications Section 015000 - Temporary Facilities and Controls require building materials to be protected in transit and at the construction site. Provide photographs for documentation.

3.1.2.3.1.2

Is there a requirement for the following construction best-practices to protect building materials and control mold:

- The building envelope will be weather-tight and permitted to dry before installation of interior walls, wood floors, ceilings, or HVAC systems?

Status: Likely to be Verified

Projected Points: 1

User Self-Evaluation Points: 1

Point Variance: 0

Assessor Comment

Provide inspection reports and/or photographs to document the building envelope will be weather-tight before installation of interior materials and HVAC systems.

3.1.2.4.1

Is there a requirement for either one of the following best-practices to maintain good indoor air quality:

The area under construction is to be flushed with 100% outdoor air for 14 consecutive days prior to occupancy, and filters changed after flush out but before it is occupied?

or

Baseline Indoor Air Quality testing gives acceptable results as per U.S. Environmental Protection Agency (EPA) Testing for Indoor Air Quality, Section 01 81 09 (December 2007)?

Status: Likely to be Verified

Projected Points: 2

User Self-Evaluation Points: 2

Point Variance: 0

Assessor Comment

Provide documentation best-practices were followed to maintain good indoor air quality.

3.1.2.4.2

Where parts of the building will be occupied during construction, are one or more of the following five basic strategies specified per SMACNA's IAQ Guidelines for Occupied Buildings Under Construction to control dust, odors, or irritants:

Status:	Likely to be Verified
Projected Points:	2
User Self-Evaluation Points:	2
Point Variance:	0

Assessor Comment

Provide documentation SMACNA IAQ guidelines were followed.

3.1.3.1.1

Is there a requirement for the Commissioning Agent to document the "Owner's Project Requirements" for building systems as per ASHRAE Guideline 0-2005: The Commissioning Process, Annexes I and J (or more recent version)?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Provide the OPR for the building systems documented by the Commissioning Agent.

3.1.3.1.2

Is there a requirement to document the building's "Basis of Design" for building systems as per ASHRAE Guideline 0-2005 Annex K (or more recent version)?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Provide the BOD documented for the building systems.

3.1.3.1.3

Is there a requirement for a Commissioning Authority with technical credentials as per ASHRAE Guideline 0-2005 (or more recent version), to lead the commissioning team, coordinate the commissioning process, and report directly to the owner?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Provide the commissioning scope of services.

3.1.3.2.1.1

Is there a requirement that commissioning will be conducted in accordance with ASHRAE Guideline 0-2005: The Commissioning Process: Articles 5, 6 and 7, (or more recent version) for the following:

- HVAC&R systems and their controls?

Status:	Likely to be Verified
Projected Points:	4
User Self-Evaluation Points:	4
Point Variance:	0

Assessor Comment

Provide Cx reports.

3.1.3.2.1.2

Is there a requirement that commissioning will be conducted in accordance with ASHRAE Guideline 0-2005: The Commissioning Process: Articles 5, 6 and 7, (or more recent version) for the following:

- Building envelope?

Status:	Likely to be Verified
Projected Points:	3
User Self-Evaluation Points:	3
Point Variance:	0

Assessor Comment

Provide Cx reports.

3.1.3.2.1.3

Is there a requirement that commissioning will be conducted in accordance with ASHRAE Guideline 0-2005: The Commissioning Process: Articles 5, 6 and 7, (or more recent version) for the following:

- Structural systems?

Status:	Likely to be Verified
Projected Points:	2
User Self-Evaluation Points:	2
Point Variance:	0

Assessor Comment

Provide Cx reports.

3.1.3.2.1.4

Is there a requirement that commissioning will be conducted in accordance with ASHRAE Guideline 0-2005: The Commissioning Process: Articles 5, 6 and 7, (or more recent version) for the following:

- Fire protection system?

Status:	Likely to be Verified
Projected Points:	2
User Self-Evaluation Points:	2
Point Variance:	0

Assessor Comment

Provide Cx reports.

3.1.3.2.1.5

Is there a requirement that commissioning will be conducted in accordance with ASHRAE Guideline 0-2005: The Commissioning Process: Articles 5, 6 and 7, (or more recent version) for the following:

- Plumbing system?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Provide Cx reports.

3.1.3.2.1.6

Is there a requirement that commissioning will be conducted in accordance with ASHRAE Guideline 0-2005: The Commissioning Process: Articles 5, 6 and 7, (or more recent version) for the following:

- Electrical system?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Provide Cx reports.

3.1.3.2.1.7

Is there a requirement that commissioning will be conducted in accordance with ASHRAE Guideline 0-2005: The Commissioning Process: Articles 5, 6 and 7, (or more recent version) for the following:

- Lighting system and their controls?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Provide Cx reports.

3.1.3.2.1.8

Is there a requirement that commissioning will be conducted in accordance with ASHRAE Guideline 0-2005: The Commissioning Process: Articles 5, 6 and 7, (or more recent version) for the following:

- Building automation systems?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Provide Cx reports.

3.1.3.2.1.9

Is there a requirement that commissioning will be conducted in accordance with ASHRAE Guideline 0-2005: The Commissioning Process: Articles 5, 6 and 7, (or more recent version) for the following:

- Elevating and conveying systems?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Provide Cx reports.

3.1.3.2.1.10

Is there a requirement that commissioning will be conducted in accordance with ASHRAE Guideline 0-2005: The Commissioning Process: Articles 5, 6 and 7, (or more recent version) for the following:

- Communication systems?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Provide Cx reports.

3.1.3.2.2

Is there a requirement to field-test partitions for noise isolation?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.1.3.2.3

Is there a requirement that the building system commissioning will be conducted in accordance with ASHRAE Guideline 0-2005: The Commissioning Process, Annex L (or more recent version)?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.1.3.3.1

Is there a requirement that there will be training for the building operators on the systems listed above in accordance with ASHRAE Guideline 0-2005: Article 7.2.14 (or more recent version)?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Training is required for building operators per specifications Section 017900 - Training. Provide documentation training was provided.

3.1.3.4.1

Is there a requirement to develop an Operations and Maintenance (O&M) Manual and/or CMMS that contains descriptions and information on the continuous tasks related to the systems and to each piece of equipment, which are necessary to operate the building efficiently?

Status:	Likely to be Verified
Projected Points:	6
User Self-Evaluation Points:	6
Point Variance:	0

Assessor Comment

O&M manuals are required by specifications Section 017823 - O&M. Document O&M manuals were provided.

3.1.4.1.1

Was an infectious disease prevention and mitigation plan questionnaire created that demonstrated how the below items were influenced:

Cleaning & Disinfecting
Materials Selection
Water Quality Maintenance and use of Water Treatment Specialist
Ventilation
Design for Space Utilization
Mobility
Operations Manual & Training Plan

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.2.1.2.1

Is the building being constructed on a remediated brownfield or remediated Superfund site?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.2.2.2.1.2

Are the following integrated into the landscape plan:

- Clusters of trees?

Status:	Likely to be Verified
Projected Points:	2
User Self-Evaluation Points:	2
Point Variance:	0

Assessor Comment

New landscaping will include clusters of trees.

3.2.2.2.1.3

Are the following integrated into the landscape plan:

- Undergrowth?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

New landscaping will include undergrowth.

3.2.2.3

Green Globes offers two paths:
Path A: Tree Preservation Plan - up to 4 points
OR
Path B: Tree Protection Specifications - up to 4 points
Please select a path. If there are no trees on the site, select N/A.

Status:	Likely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

Clarify where existing trees will be preserved.

3.2.2.3.2.1.1

In the absence of Tree Preservation Plan by a certified Arborist, do the specifications require that the General Contractor will implement the following best practices for tree protection during construction:

- Tree protection barriers will enclose a minimum Tree Protection Zone (TPZ) around the trees and shrubs that are to be retained on the site?

Status:	Likely to be Verified
Projected Points:	2
User Self-Evaluation Points:	2
Point Variance:	0

Assessor Comment

Provide photographs of tree protection barriers around the trees and shrubs that were retained on site.

3.2.2.3.2.1.2

In the absence of Tree Preservation Plan by a certified Arborist, do the specifications require that the General Contractor will implement the following best practices for tree protection during construction:

- Root protection will be installed to protect tree roots from compaction during construction?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.2.2.3.2.1.3

In the absence of Tree Preservation Plan by a certified Arborist, do the specifications require that the General Contractor will implement the following best practices for tree protection during construction:

- Sediment control barriers will be provided where some fill or excavate will be temporarily located near a TPZ?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Provide photographs of sediment control barriers used to protect existing trees.

3.2.2.4.1

What percentage by area of the roof is vegetated, and/or has a high Solar Reflectance Index (SRI) as prescribed based on the slope of the roof?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.2.2.4.2

What percentage (by area) of paved surfaces have a high SRI?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Paving will be observed on site.

3.2.2.4.3

What percentage (by area) of paved surfaces outside of the building footprint will be shaded by trees within 15 years?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.2.2.4.4

Do at least 75% of opaque wall surfaces (by area) on the east and west have an SRI of 29 or greater?

Status: Likely to be Verified

Projected Points: 2

User Self-Evaluation Points: 2

Point Variance: 0

Assessor Comment

Provide SRI of exterior materials to be observed on site.

3.2.2.5.1.1

Are the following measures required to help ensure that birds perceive windows as being a solid object:

- Visual markers

Status: Unlikely to be Verified

Projected Points: 0

User Self-Evaluation Points: 0

Point Variance: 0

Assessor Comment

See recommendation.

3.2.2.5.1.2

Are the following measures required to help ensure that birds perceive windows as being a solid object:

- Avoidance of reflections?

Status: Unlikely to be Verified

Projected Points: 0

User Self-Evaluation Points: 0

Point Variance: 0

Assessor Comment

See recommendation.

3.2.3.1.3

Is there a Stormwater Management Report by a Civil Engineer that shows that:

- The site will retain at least 50% of the total average annual rainfall volume as per a Site Water Balance Assessment, to be included in the Stormwater Management Report?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.2.4.2.2

Does the Landscape and Irrigation Plan include the following:

- Structural limitations (e.g. shading, utilities, overhangs, lights) that would impact the location and growth of plants?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.2.4.3.1

Does the plant palette include the following?

- Minimum of 50% of the vegetated area covered with plants that are drought-tolerant?

Status:	Likely to be Verified
Projected Points:	2
User Self-Evaluation Points:	2
Point Variance:	0

Assessor Comment

Plant schedule on landscape drawings. Verify on site.

3.2.4.3.2

Does the plant palette include the following?

- Minimum of 50% of vegetated area covered with plants (new or salvaged plantings) that are native and non-invasive?

Status:	Likely to be Verified
Projected Points:	2
User Self-Evaluation Points:	2
Point Variance:	0

Assessor Comment

Plant schedule on landscape drawings. Verify on site.

3.2.4.5.1

Does the Landscape Design show that plants are located on the site as follows:

- Plants with similar water requirements are grouped together?

Status: Likely to be Verified

Projected Points: 2

User Self-Evaluation Points: 2

Point Variance: 0

Assessor Comment

Verify on site.

3.2.4.5.2

Does the Landscape Design show that plants are located on the site as follows:

- Plants are spaced to allow for maturation at a 5-year growth rate?

Status: Likely to be Verified

Projected Points: 1

User Self-Evaluation Points: 1

Point Variance: 0

Assessor Comment

Verify on site.

3.2.4.6

Is there a requirement that 15% of planned impervious walkways, patios, and driveways will be installed with pervious materials?

Status: Unlikely to be Verified

Projected Points: 0

User Self-Evaluation Points: 0

Point Variance: 0

Assessor Comment

See recommendation.

3.2.5.1.1

Is there a lighting design by an Engineer or Lighting Professional that meets all the performance requirements of the IDA - IES Model Lighting Ordinance?

Status:	Likely to be Verified
Projected Points:	7
User Self-Evaluation Points:	7
Point Variance:	0

Assessor Comment

Exterior lighting levels indicated on photometric plan. Exterior lighting fixtures indicated on schedule will be verified on site.

3.3.1.1

Green Globes provides four paths for assessing energy performance. Each path requires energy design modeling to establish the proposed energy performance (energy use) for a building.
Path A: ENERGY STAR® Target Finder - up to 100 points
OR
Path B: ASHRAE 90.1-2010, Appendix G - up to 100 points
OR
Path C: ANSI/GBI 01-2010 Energy Performance Building Carbon Dioxide Equivalent (CO2e) Emissions - up to 100 points, plus up to 50 bonus points
OR
Path D: ASHRAE Building Energy Quotient (Building EQ) - up to 100 points, plus up to 25 bonus points
Please select a path.

Status:	Likely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

PATH A: ENERGY STAR Target Finder was selected to assess energy performance.

3.3.1.1.1.1

Input the energy performance as the ENERGY STAR® percentile score derived from the Target Finder program.

Status:	Likely to be Verified
Projected Points:	44
User Self-Evaluation Points:	44
Point Variance:	0

Assessor Comment

Provide the ENERGY STAR Target Finder Report.

3.3.1.2.1

Is there a program or policy in place to compare actual performance data from the first year of operation with the energy design target?

Status:	Likely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

Provide the program to benchmark energy performance.

3.3.2.1.1

Does a minimum of 20% of the building envelope gross wall area have either of the following:

A minimum heat capacity of 7 Btu/ft2 °F (143 kJ/m2K)? A minimum heat capacity of 5 Btu/ft2 °F (102 kJ/m2K), provided the walls have a material unit weight equal to or less than 120 lb/ft3 (1920 kg/m3)?

Status:	Likely to be Verified
Projected Points:	3
User Self-Evaluation Points:	3
Point Variance:	0

Assessor Comment

Provide heat capacity of applicable materials.

3.3.2.1.4

Is there a thermal energy storage system that is capable of offsetting the peak cooling demand by more than 30%

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.3.2.2.1

What is the modeled building's monthly power demand factor (lowest monthly kW demand ÷ peak monthly kW demand)?

Status:	Likely to be Verified
Projected Points:	4
User Self-Evaluation Points:	4
Point Variance:	0

Assessor Comment

Provide the monthly power demand factor documentation.

3.3.2.2.2

Is there an Energy Management System designed to reduce power demand below the non-reduced peak?

OR

Will power demand be controlled by the electric utility as per a load shedding agreement between the building owner and the utility?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

Explore options to reduce peak power demand.

3.3.3.1.1.1

Is there metering (at the building level) for the following:

- Electricity?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Electric meter indicated on One Line Diagram will be observed on site.

3.3.3.1.1.2

Is there metering (at the building level) for the following:

- Heating fuels?

Status: Likely to be Verified

Projected Points: 1

User Self-Evaluation Points: 1

Point Variance: 0

Assessor Comment

Verify gas meter on site.

3.3.3.1.1.3

Is there metering (at the building level) for the following:

- Steam?

Status: Likely to be Verified

Projected Points: 1

User Self-Evaluation Points: 1

Point Variance: 0

Assessor Comment

Steam meter will be observed on site.

3.3.3.1.1.4

Is there metering (at the building level) for the following:

- Other?

Status: Unlikely to be Verified

Projected Points: 0

User Self-Evaluation Points: 0

Point Variance: 0

Assessor Comment

Clarify if there are other energy sources.

3.3.3.1.2.1

Is there sub-metering installed for the following systems:

- Lighting and lighting controls by floor or by zones with floor areas no greater than 20,000 ft2 (1860 m2)?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.3.3.1.2.2

Is there sub-metering installed for the following systems:

- Plug loads by floor or by zones no greater than 20,000 ft2 (1860 m2)?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.3.3.1.2.3

Is there sub-metering installed for the following systems:

- Major electric HVAC equipment 5 HP or greater?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.3.3.1.2.4

Is there sub-metering installed for the following systems:

- Chilled water generation?

Status:	Likely to be Verified
Projected Points:	0.5
User Self-Evaluation Points:	0.5
Point Variance:	0

Assessor Comment

Sub-metering for chilled water will be observed on site.

3.3.3.1.2.5

Is there sub-metering installed for the following systems:

- On-site renewable energy power generation?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.3.3.1.2.6

Is there sub-metering installed for the following systems:

- Heating water or steam generation?

Status:	Likely to be Verified
Projected Points:	0.5
User Self-Evaluation Points:	0.5
Point Variance:	0

Assessor Comment

Observe sub-metering for steam.

3.3.3.1.2.7

Is there sub-metering installed for the following systems:

- Specialty or process electrical equipment?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.3.3.1.2.8

Is there sub-metering installed for the following systems:

- Critical HVAC controls?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.3.3.2.1.1

Does the Energy Metering Reporting Plan include the following monitoring protocols (e.g. daily, monthly, seasonal, by floor, etc.)?

- Lighting and lighting controls: daily demand and consumption by floor or by zones with floor areas no greater than 20,000 ft2 (1860 m2)?

Status: Unlikely to be Verified

Projected Points: 0

User Self-Evaluation Points: 0

Point Variance: 0

Assessor Comment

See recommendation.

3.3.3.2.1.2

Does the Energy Metering Reporting Plan include the following monitoring protocols (e.g. daily, monthly, seasonal, by floor, etc.)?

- Plug loads: daily demand and consumption by floor or by zones no greater than 20,000 ft2 (1860 m2)?

Status: Unlikely to be Verified

Projected Points: 0

User Self-Evaluation Points: 0

Point Variance: 0

Assessor Comment

See recommendation.

3.3.3.2.1.3

Does the Energy Metering Reporting Plan include the following monitoring protocols (e.g. daily, monthly, seasonal, by floor, etc.)?

- Major electric HVAC equipment 5 HP or greater: seasonal peak demand and monthly consumption?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.3.3.2.1.4

Does the Energy Metering Reporting Plan include the following monitoring protocols (e.g. daily, monthly, seasonal, by floor, etc.)?

- Chilled water generation: seasonal peak output and monthly consumption?

Status:	Likely to be Verified
Projected Points:	0.5
User Self-Evaluation Points:	0.5
Point Variance:	0

Assessor Comment

Demonstrate the Energy Metering Reporting Plan for chilled water.

3.3.3.2.1.5

Does the Energy Metering Reporting Plan include the following monitoring protocols (e.g. daily, monthly, seasonal, by floor, etc.)?

- On-site renewable energy power generation: monthly peak output, monthly production, and site specific weather characteristics?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.3.3.2.1.6

Does the Energy Metering Reporting Plan include the following monitoring protocols (e.g. daily, monthly, seasonal, by floor, etc.)?

- Heating water or steam generation: seasonal peak and monthly consumption.

Status:	Likely to be Verified
Projected Points:	0.5
User Self-Evaluation Points:	0.5
Point Variance:	0

Assessor Comment

Demonstrate the Energy Metering Reporting Plan for steam generation.

3.3.3.2.1.7

Does the Energy Metering Reporting Plan include the following monitoring protocols (e.g. daily, monthly, seasonal, by floor, etc.)?

- Specialty or process electrical equipment: daily demand and consumption.

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.3.3.2.1.8

Does the Energy Metering Reporting Plan include the following monitoring protocols (e.g. daily, monthly, seasonal, by floor, etc.)?

- Critical HVAC controls: status monitoring and verification.

Status:	Likely to be Verified
Projected Points:	0.5
User Self-Evaluation Points:	0.5
Point Variance:	0

Assessor Comment

Demonstrate the Energy Metering Reporting Plan for HVAC controls.

3.3.4.1.1

Do the thermal resistance (R/RSI) values for all the opaque elements of the building envelope meet or exceed the values in Table 3.3.4.1.1-A (see Tooltip)?
OR
Do the thermal transmittance (U- /C- /F-factor) values for all the opaque elements of the building envelope meet or fall below the maximum values in Table 3.3.4.1.1-B (see Tooltip)?

Status:	Likely to be Verified
Projected Points:	10
User Self-Evaluation Points:	10
Point Variance:	0

Assessor Comment

Provide submittals for the building envelope insulation.

3.3.4.3.1

Is the thermal transmittance (U-factor) of the building's fenestration system less than or equal to the values in Table 3.3.4.3: Building Envelope Requirements (see tooltip)?

Status:	Likely to be Verified
Projected Points:	8
User Self-Evaluation Points:	8
Point Variance:	0

Assessor Comment

Provide submittals for the glazing to verify the U-factors.

3.3.4.3.2

Is the Solar Heat Gain Coefficient (SHGC) of the building's fenestration system less than or equal to the values in Table 3.3.4.3: Building Envelope Requirements?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.3.5.1.1

Is the total lighting power density (LPD) of the building at or below the allowed lighting power density given in Table 3.3.5.1.1-A: Building Area Method or Table 3.3.5.1.1-B: Space-by-Space Method (see Assessment Guidance)?

Status:	Likely to be Verified
Projected Points:	10
User Self-Evaluation Points:	10
Point Variance:	0

Assessor Comment

Provide the lighting calculations for the Lighting Power Density.

3.3.5.2.1

How many light fixtures have time-scheduling devices and/or individual occupant-sensing devices?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Occupancy sensors indicated on lighting plans will be observed on site.

3.3.5.3.1

How many light fixtures have lighting controls that can reduce the lighting load by at least 50% from full lighting using any of the following technologies:

Dual switching of alternate rows or luminaires? Switching of individual lamps independently of adjacent lamps within a luminaire? Switching of each lamp or luminaire? Occupancy sensors within the space?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.3.5.4.1

Are the regularly occupied side-lit daylighted areas (vertical fenestration) and the top-lit daylighted areas (skylights) equal to at least 10% of the net building area?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.3.5.4.2

Is the effective aperture for vertical fenestration (EAVF) equal to or greater than:

0.10 EAVF for climate zones (CZ) 1, 2, 3A, or 3B? 0.15 EAVF for climate zones 3C, 4, 5, 6, 7, or 8?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.3.5.5.1

Do all small daylit areas have manual or automatic photocell lighting controls?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.3.5.5.2

Do all large daylit areas have automatic photocell lighting controls?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.3.5.6.1

Do exterior luminaires have lamps with an initial system efficacy of at least 60 lumens per watt?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Exterior lighting levels indicated on photometric plan. Exterior luminaires will be observed on site.

3.3.5.6.2

Were LED lamp sources used for all exterior lighting?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

LED exterior lighting specified on lighting schedule.

3.3.5.6.3

Are lamps specified that have low or no mercury content?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

LED lighting specified.

3.3.5.6.4

Will one of the following controls be installed for exterior lighting:

Lighting designated for dusk-to-dawn controlled by a photo sensor or astronomical time switch with 10-hour backup? Lighting not designated for dusk-to-dawn controlled by a time switch with 10-hour backup?

Status:	Likely to be Verified
Projected Points:	2
User Self-Evaluation Points:	2
Point Variance:	0

Assessor Comment

Exterior lighting controls will be observed on site.

3.3.6.1.1

Is there a central Building Automation System (BAS) that encompasses all systems that affect building energy performance, lighting, and thermal comfort?

Status:	Likely to be Verified
Projected Points:	10
User Self-Evaluation Points:	10
Point Variance:	0

Assessor Comment

BAS system specified in Section 230923- DDC/BAS and control diagrams will be observed on site.

3.3.6.2.1

Does the cooling equipment base efficiency meet ANSI/ASHRAE/IES Standard 90.1-2010 efficiency requirements with respect to COP, EER and SEER?
Refer to Table 3.3.6.2.1: Cooling Equipment Base Efficiency to determine point eligibility.
If eligible, select "Yes" and use 3.3.6.2.1.1 to indicate the number of points that should be awarded.
If ineligible, select "No."
Select "N/A" if there is no mechanical cooling.

Status:	Likely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

Cooling equipment is specified on HVAC schedules and project specifications.

3.3.6.2.1.1

Indicate the number of points that should be awarded per Table 3.3.6.2.1: Cooling Equipment Base Efficiency (see Assessment Guidance).

Status:	Likely to be Verified
Projected Points:	3
User Self-Evaluation Points:	3
Point Variance:	0

Assessor Comment

Provide the base efficiency rating of the cooling equipment.

3.3.6.2.2

Does the cooling equipment base efficiency exceed ANSI/ASHRAE/IES Standard 90.1-2010 or ANSI/ASHRAE/IESNA Standard 90.1-2007 with respect to:
Seasonal energy efficiency ratio (SEER)?
OR
Integrated part-load value (IPLV)?
AND

the Coefficient of performance (COP)?
OR
Energy efficiency ratio (EER)?
Refer to Table 3.3.6.2.2: Incremental Cooling Equipment Efficiency Improvement to determine point eligibility.

If eligible, select "Yes" and use 3.3.6.2.2.1 to indicate the number of points that should be awarded.
If ineligible, select "No."
Select "N/A" if there is no mechanical cooling.

Status:	Likely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

Provide the efficiency rating of the cooling equipment.

3.3.6.2.2.1

Indicate the number of points that should be awarded per Table 3.3.6.2.2: Incremental Cooling Equipment Efficiency Improvement (see Assessment Guidance).

Status:	Likely to be Verified
Projected Points:	3
User Self-Evaluation Points:	3
Point Variance:	0

Assessor Comment

Provide the Incremental Cooling Equipment Efficiency Improvement.

3.3.6.3.1

Will any of the following measures be used in cooling towers to reduce fan energy consumption:

Two speed fans? Variable speed fans? Other measures?

Status:	Likely to be Verified
Projected Points:	4
User Self-Evaluation Points:	4
Point Variance:	0

Assessor Comment

Cooling towers are specified on HVAC schedules and specifications Section 236513 - Cooling Towers. VFDs specified for fans. Observe on site.

3.3.6.3.2

Is there a waterside economizer system with capacity to use outdoor air for cooling water?

Status:	Likely to be Verified
Projected Points:	4
User Self-Evaluation Points:	4
Point Variance:	0

Assessor Comment

Provide submittal to verify the cooling towers meet applicable criteria. Observe cooling towers on site.

3.3.6.5.1

What percentage does the heating equipment exceed ANSI/ASHRAE/IESNA Standard 90.1-2010, ANSI/ASHRAE/IESNA Standard 90.1-2007, or International Energy Conservation Code (IECC) 2009 for one of the following:

Annual fuel utilization efficiency (AFUE)? Thermal efficiency (ET)? Combustion Efficiency (EC)?

Status: Likely to be Verified

Projected Points: 2

User Self-Evaluation Points: 2

Point Variance: 0

Assessor Comment

Provide the efficiency rating for heating equipment.

3.3.6.8.1

Do all domestic hot water heaters meet the efficiency requirements of ANSI/ASHRAE/IESNA STANDARD 90.1-2010, ANSI/ASHRAE/IESNA STANDARD 90.1-2007, or International Energy Conservation Code (IECC) 2009?

Status: Likely to be Verified

Projected Points: 2

User Self-Evaluation Points: 2

Point Variance: 0

Assessor Comment

Gas hot water heaters are specified on HVAC schedules. Observe on site.

3.3.6.8.2

Are all domestic hot water heaters equipped with intermittent electrical igniters and low NOX burners?

Status: Likely to be Verified

Projected Points: 1

User Self-Evaluation Points: 1

Point Variance: 0

Assessor Comment

AERCO gas water heaters specified. Observe on site.

3.3.6.9.1

What percentage of the connected hydronic pumping power is provisioned with variable speed control?

Status: Likely to be Verified

Projected Points: 6

User Self-Evaluation Points: 6

Point Variance: 0

Assessor Comment

Variable speed drives specified. See notes on schedules and specifications. Observe on site.

3.3.7.2.1

Are there air economizers with a mode that uses outdoor air for cooling in place of mechanical cooling?

Status: Unlikely to be Verified

Projected Points: 0

User Self-Evaluation Points: 0

Point Variance: 0

Assessor Comment

See recommendation.

3.3.7.3.2.1

Are there the following requirements for flexible duct work:

- Flexible ductwork is no longer than 5 ft. (1.5 m) when fully stretched?

Status: Likely to be Verified

Projected Points: 0.5

User Self-Evaluation Points: 0.5

Point Variance: 0

Assessor Comment

Provide inspection reports to verify flexible ductwork meets applicable criteria.

3.3.7.3.2.2

Are there the following requirements for flexible duct work:

- The use of flexible ductwork is limited to only connections between duct branches and diffusers, and connections between duct branches and variable air volume terminal units?

Status:	Likely to be Verified
Projected Points:	0.5
User Self-Evaluation Points:	0.5
Point Variance:	0

Assessor Comment

Provide inspection reports to verify flexible ductwork meets applicable criteria.

3.3.7.3.2.3

Are there the following requirements for flexible duct work:

- Durable elbow support is provided when flexible ductwork is used as an elbow?

Status:	Likely to be Verified
Projected Points:	0.5
User Self-Evaluation Points:	0.5
Point Variance:	0

Assessor Comment

Provide inspection reports to verify flexible ductwork meets applicable criteria.

3.3.7.3.3

Are the duct joints sealed and have the seams been leak-tested and found to have an overall leak rate that does not exceed 5%?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Provide inspection reports to verify duct joints have been sealed and seams leak tested.

3.3.7.3.4

Do motors for fans meet NEMA's Premium® “Energy Efficiency Motor Program”?

Status: Unlikely to be Verified

Projected Points: 0

User Self-Evaluation Points: 0

Point Variance: 0

Assessor Comment

See recommendation.

3.3.7.4.1

Are there occupancy and/or CO2 sensors to control ventilation rates in regularly occupied spaces that may experience frequent variations in the number of occupants?

Status: Unlikely to be Verified

Projected Points: 0

User Self-Evaluation Points: 0

Point Variance: 0

Assessor Comment

See recommendation.

3.3.7.4.3.1

Do the ventilation heat recovery systems include the following:

- Pressure-drop impact on fan power?

Status: Unlikely to be Verified

Projected Points: 0

User Self-Evaluation Points: 0

Point Variance: 0

Assessor Comment

See recommendation.

3.3.7.4.3.2

Do the ventilation heat recovery systems include the following:

- Bypass for economizer operation, if applicable?

Status: Unlikely to be Verified

Projected Points: 0

User Self-Evaluation Points: 0

Point Variance: 0

Assessor Comment

See recommendation.

3.3.7.4.3.3

Do the ventilation heat recovery systems include the following:

- MERV 13 Filtration?

Status: Likely to be Verified

Projected Points: 2

User Self-Evaluation Points: 2

Point Variance: 0

Assessor Comment

Verify filtration on site.

3.3.7.5.1

Does the HVAC design utilize Variable Refrigerant Flow (VRF) system technology?

Status: Likely to be Verified

Projected Points: 6

User Self-Evaluation Points: 6

Point Variance: 0

Assessor Comment

Clarify VRF system technology utilized in HVAC design.

3.3.8.1.1

Are there regenerative braking elevators?

Status: Unlikely to be Verified

Projected Points: 0

User Self-Evaluation Points: 0

Point Variance: 0

Assessor Comment

See recommendation.

3.3.8.2.1.3

Is the building's energy efficiency increased through the use of one or more of the following energy efficient equipment:

- Others?

Status: Unlikely to be Verified

Projected Points: 0

User Self-Evaluation Points: 0

Point Variance: 0

Assessor Comment

See recommendation.

3.3.9.1.1

Has a study been conducted to determine the technical feasibility and life-cycle cost effectiveness of on-site renewable energy?

Status: Unlikely to be Verified

Projected Points: 0

User Self-Evaluation Points: 0

Point Variance: 0

Assessor Comment

See recommendation.

3.3.9.1.2

Were the recommendations of the Feasibility Study implemented?

Status: Unlikely to be Verified

Projected Points: 0

User Self-Evaluation Points: 0

Point Variance: 0

Assessor Comment

See recommendation.

3.3.9.2.1

Has the building owner committed to sign a contract to purchase either certified "green" power or certified renewable energy certificates (RECs) with a minimum three-year commitment; and if so, for what percentage of total electrical consumption of the building?

Status: Unlikely to be Verified

Projected Points: 0

User Self-Evaluation Points: 0

Point Variance: 0

Assessor Comment

See recommendation.

3.3.10.1

Is the site located within 0.25 mi (0.4 km) of a public transportation facility such as a public bus stop or train-stop?

Status: Likely to be Verified

Projected Points: 10

User Self-Evaluation Points: 10

Point Variance: 0

Assessor Comment

Observe bus stop on site.

3.3.10.2

Will there be designated preferred parking for car/van pooling, and shelter from weather for persons waiting for a lift?

Status:	Likely to be Verified
Projected Points:	2
User Self-Evaluation Points:	2
Point Variance:	0

Assessor Comment

Observe on site.

3.3.10.3

Are there alternative fuel re-fueling facilities or electric charging stations on site or in the general vicinity?

Status:	Likely to be Verified
Projected Points:	5
User Self-Evaluation Points:	5
Point Variance:	0

Assessor Comment

Observe on site.

3.3.10.4

Is the site located within 0.25 mi (0.4 km) of a public bicycle path, multi-user path, or on a road with an existing dedicated bicycle lane?

Status:	Likely to be Verified
Projected Points:	3
User Self-Evaluation Points:	3
Point Variance:	0

Assessor Comment

Observe on site.

3.3.10.5

Is there sheltered bicycle parking for:

At least 5% of the maximum number of office building occupants?
or

At least 50% of units in a multi-family residential building?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.4.1.1

Using the Green Globes Water Consumption Calculator, is the projected water consumption of the building less than the given baseline?

Status:	Likely to be Verified
Projected Points:	6
User Self-Evaluation Points:	6
Point Variance:	0

Assessor Comment

Provide the GGWCC for confirmation.

3.4.1.2.1

Are any of the following plumbing fixtures and fittings certified as being compliant with the requirements of the U.S. EPA's WaterSense Program?

- Toilets (Maximum effective flush volume 1.28 gallons)?

Status:	Likely to be Verified
Projected Points:	2
User Self-Evaluation Points:	2
Point Variance:	0

Assessor Comment

Toilet fixtures specified on plumbing schedule and specifications Section - 224313 - Plumbing Fixtures. Provide submittals. Observe on site.

3.4.1.2.2

Are any of the following plumbing fixtures and fittings certified as being compliant with the requirements of the U.S. EPA's WaterSense Program?

- Urinals (Maximum effective flush volume 0.5 gallons)?

Status:	Likely to be Verified
Projected Points:	2
User Self-Evaluation Points:	2
Point Variance:	0

Assessor Comment

Toilet fixtures specified on plumbing schedule and specifications Section - 224313 - Plumbing Fixtures. Provide submittals. Observe on site.

3.4.1.2.3

Are any of the following plumbing fixtures and fittings certified as being compliant with the requirements of the U.S. EPA's WaterSense Program?

- Showerheads (Maximum effective flow rate 2.0 gallons per minute)?

Status:	Likely to be Verified
Projected Points:	2
User Self-Evaluation Points:	2
Point Variance:	0

Assessor Comment

Toilet fixtures specified on plumbing schedule and specifications Section - 224313 - Plumbing Fixtures. Provide submittals. Observe on site.

3.4.1.2.4

Are any of the following plumbing fixtures and fittings certified as being compliant with the requirements of the U.S. EPA's WaterSense Program?

- Residential lavatory faucets (Maximum flow rate 1.5 gallons per minute)?

Status:	Likely to be Verified
Projected Points:	2
User Self-Evaluation Points:	2
Point Variance:	0

Assessor Comment

Toilet fixtures specified on plumbing schedule and specifications Section - 224313 - Plumbing Fixtures. Provide submittals. Observe on site.

3.4.1.2.6

Are any of the following plumbing fixtures and fittings certified as being compliant with the requirements of the U.S. EPA's WaterSense Program?

- Non-residential lavatory faucets (Maximum flow rate 0.5 gallons per minute)?

Status: Likely to be Verified

Projected Points: 2

User Self-Evaluation Points: 2

Point Variance: 0

Assessor Comment

Toilet fixtures specified on plumbing schedule and specifications Section - 224313 - Plumbing Fixtures. Provide submittals. Observe on site.

3.4.1.3

If any water fixtures not addressed by the WaterSense program requirements were used in the project design, were projected consumption rates for these fixtures determined and entered into the Green Globes Water Consumption Calculator?

Status: Likely to be Verified

Projected Points: 2

User Self-Evaluation Points: 2

Point Variance: 0

Assessor Comment

Provide the specifications for the applicable water fixtures.

3.4.2.1

Do cooling towers minimize the amount of make-up water by achieving one of the following:

A minimum of 5 cycles of concentration for makeup water having less than or equal to 200 ppm (200 mg/L) total hardness as calcium carbonate or 3.5 cycles for makeup water with more than 200 ppm (200 mg/L) total hardness as calcium carbonate?
OR
A minimum discharge conductivity of 1500 micromhos/cm or maximum of 150 ppm (150 mg/L) of silica measured as silicon dioxide?

Status:	Likely to be Verified
Projected Points:	2
User Self-Evaluation Points:	2
Point Variance:	0

Assessor Comment

Provide submittals to verify makeup water specs meet requirements.

3.4.2.2

Do cooling towers exceed the minimum water quality criteria above (3.4.2.1) by 20% or more?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Provide submittals to verify applicable criteria.

3.4.2.3

Are there flow meters on the make-up and blowdown lines, and conductivity controllers?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.4.2.4

What percentage of cooling consists of dry cooling?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.4.2.5

Are cooling tower(s) equipped with drift eliminators that achieved an efficiency of:
0.001% or less for counterflow systems?
OR
0.005% or less for crossflow systems?

Status:	Likely to be Verified
Projected Points:	2
User Self-Evaluation Points:	2
Point Variance:	0

Assessor Comment

Observe drift eliminators on site.

3.4.3.1.1

Do boilers and/or water heaters have the following features:

- Boilers and water heating systems of 50 bhp and above have a boiler feed makeup meter?

Status: Likely to be Verified

Projected Points: 1

User Self-Evaluation Points: 1

Point Variance: 0

Assessor Comment

Observe makeup meters for boilers on site.

3.4.3.1.3

Do boilers and/or water heaters have the following features:

- Boilers have conductivity controllers?

Status: Likely to be Verified

Projected Points: 1

User Self-Evaluation Points: 1

Point Variance: 0

Assessor Comment

Provide submittals to verify conductivity controllers.

3.4.3.1.4

Do boilers and/or water heaters have the following features:

- Steam boilers have conductivity meters?

Status: Likely to be Verified

Projected Points: 1

User Self-Evaluation Points: 1

Point Variance: 0

Assessor Comment

Provide submittals to verify conductivity meters.

3.4.4.1.1.1

Do food services avoid water intensive equipment as follows:

- There is no once-through water-cooled equipment?

Status: Unlikely to be Verified

Projected Points: 0

User Self-Evaluation Points: 0

Point Variance: 0

Assessor Comment

See recommendation.

3.4.4.1.1.2

Do food services avoid water intensive equipment as follows:

- There is no water-fed garbage disposal?

Status: Unlikely to be Verified

Projected Points: 0

User Self-Evaluation Points: 0

Point Variance: 0

Assessor Comment

See recommendation.

3.4.4.1.2.1

Do the following appliances meet the prescribed limits for water usage:

- Combination ovens consume 10 gal/hr. (39 L/hr.) or less?

Status: Likely to be Verified

Projected Points: 1

User Self-Evaluation Points: 1

Point Variance: 0

Assessor Comment

Provide submittal to verify applicable specifications.

3.4.4.1.2.2

Do the following appliances meet the prescribed limits for water usage:

- Pre-rinse spray valves for dish-rinsing consume 1.5 gal/min (5.7 L/min) or less?

Status: Likely to be Verified

Projected Points: 1

User Self-Evaluation Points: 1

Point Variance: 0

Assessor Comment

Provide submittal to verify applicable specifications.

3.4.4.1.2.3

Do the following appliances meet the prescribed limits for water usage:

- Boilerless/connectionless food steamers consume 2 gal/hr. (7.5 L/hr.) or less?

Status: Likely to be Verified

Projected Points: 1

User Self-Evaluation Points: 1

Point Variance: 0

Assessor Comment

Provide submittal to verify applicable specifications.

3.4.4.1.2.4

Do the following appliances meet the prescribed limits for water usage:

- Dishwashers consume 5.8 gal/cycle (22 L/cycle) or less?

Status: Likely to be Verified

Projected Points: 1

User Self-Evaluation Points: 1

Point Variance: 0

Assessor Comment

Provide submittal to verify applicable specifications.

3.4.4.2.1.1

Are steam sterilizers equipped with the following:

- Mechanical vacuum systems?

Status: Likely to be Verified

Projected Points: 0.5

User Self-Evaluation Points: 0.5

Point Variance: 0

Assessor Comment

Provide submittal to verify applicable specifications.

3.4.4.2.1.2

Are steam sterilizers equipped with the following:

- Water tempering devices that only allow water to flow when the discharge of condensate or hot water from the sterilizer exceeds 140°F (60°C)?

Status: Unlikely to be Verified

Projected Points: 0

User Self-Evaluation Points: 0

Point Variance: 0

Assessor Comment

See recommendation.

3.4.4.2.2

Does laboratory or medical equipment use non-potable water for once-through cooling?

Status: Unlikely to be Verified

Projected Points: 0

User Self-Evaluation Points: 0

Point Variance: 0

Assessor Comment

See recommendation.

3.4.4.2.3

Are dry vacuum systems specified for all medical/dental purposes?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Provide submittal to verify applicable specifications.

3.4.4.2.4

Do X-rays, MRIs, CT scans, and other imaging equipment employ digital technologies;

AND/OR

Do large X-ray film systems (capable of processing X-ray films of more than 5.9 in (150 mm) in length or width) employ recycling technology to reduce water waste?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Provide submittal to verify applicable specifications.

3.4.5.2

Is reverse osmosis provided that achieves one of the following:

Rejects less than 70% of feedwater volume for a system that produces less than 100 gal. (380 L) per day?
OR
That rejects less than 60% of feedwater for a system that produces more than 100 gal. (380 L) per day?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Provide submittal to verify applicable specifications.

3.4.5.3

Are water softeners equipped with recharge controls based on volume of water treated or hardness, and not on timers?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Provide submittal to verify applicable specifications.

3.4.6.1

What percentage of water for non-potable uses will be harvested on-site or reclaimed?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.4.7.1

Is there sub-metering for all water-intensive indoor applications such as commercial kitchens, commercial laundry, labs, pools, spas, etc.?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.4.7.2

Is the potable water that is used for irrigation sub-metered?

Status:	Likely to be Verified
Projected Points:	3
User Self-Evaluation Points:	3
Point Variance:	0

Assessor Comment

Sub-meter for irrigation water will be observed on site.

3.4.7.3

Are all water meters and sub-meters linked to a Meter Data Management System to store and report water consumption data?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.4.7.4

Are chilled or hot water loops equipped with makeup meters?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.4.8.1

What percentage of exterior vegetated space does not require irrigation?

Status:	Likely to be Verified
Projected Points:	11
User Self-Evaluation Points:	11
Point Variance:	0

Assessor Comment

Irrigation requirements will be observed on site.

3.4.8.2.1

Does the irrigation system include any of the following features:

- Gutter downspouts directed into planted areas or other landscape features?

OR

Onsite cisterns and/or rainwater harvesting system, or reclaimed water system?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.4.8.2.2

Does the irrigation system include any of the following features:

- Drip or low-volume irrigation?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Irrigation system will be observed on site. Specifications provided.

3.4.8.2.3

Does the irrigation system include any of the following features:

- EPA WaterSense/Smart Water Application Technology (SWAT), smart controllers (ET, rain sensors, or soil moisture sensors), and automatic rain shut off devices?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.4.8.2.4

Does the irrigation system include any of the following features:

- Capability to regulate precipitation rates on sprinkler heads for differing hydrozones?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.5.1.1.1

Was the Athena Impact Estimator for Buildings (Version 4.2 or later) used during design to evaluate a minimum of two different core and shell designs, based on life cycle assessment (LCA) in compliance with the assessment guidance and resulting in selection of the building core and shell with the least anticipated environmental impact?

OR

Was another LCA tool used during design to evaluate a minimum of two different core and shell designs, based on life cycle assessment (LCA) in compliance with the assessment guidance and resulting in selection of the building core and shell with the least anticipated environmental impact?

Status:	Likely to be Verified
Projected Points:	33
User Self-Evaluation Points:	33
Point Variance:	0

Assessor Comment

Provide the LCA comparison.

3.5.2.1.1

Was life cycle assessment and relative comparison of a minimum of two alternative interior fit-outs (including finishes and furnishings) performed during design, which resulted in the selection of an interior fit-out that has the least anticipated environmental impact based upon comparable applications?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.5.3.1.1

What percentage of the façade from an existing building on the site is retained and incorporated in the new design?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.5.3.2.1

What percentage of structural systems (e.g. interior walls) from an existing building on the site is retained and incorporated in the new design?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.5.3.3.2

What percentage of the existing furnishings (including systems furniture) will be re-used and/or refurbished for reuse within the renovation project?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Document existing furnishings reused for the project.

3.5.3.3.3

Is there a requirement that the project will incorporate reused and off-site salvaged materials?

Status:	Likely to be Verified
Projected Points:	4
User Self-Evaluation Points:	4
Point Variance:	0

Assessor Comment

Document reused and /or off-site salvaged materials.

3.5.4.1.1

What percentage of the construction waste, including building demolition waste, will be diverted from the landfill?

Status:	Likely to be Verified
Projected Points:	4
User Self-Evaluation Points:	4
Point Variance:	0

Assessor Comment

Document construction waste diverted from the landfill in accordance with specifications.

3.5.4.1.2

Is there a requirement to reuse existing on-site materials for site development or landscaping (e.g., crushing concrete for aggregate base or drain rock, shredding vegetative materials for mulch, etc.)?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Document reuse of existing on-site materials for site development or landscaping.

3.5.4.2.1.1

Does the building design address operations-related recycling programs through one or more of the following:

- Operational flow for waste handling and storage facilities for recycling?

Status:	Likely to be Verified
Projected Points:	0.5
User Self-Evaluation Points:	0.5
Point Variance:	0

Assessor Comment

Facilities shown on plans for recycling will be observed on site.

3.5.4.2.1.2

Does the building design address operations-related recycling programs through one or more of the following:

- Storage areas for recyclable waste at points of service?

Status:	Likely to be Verified
Projected Points:	0.5
User Self-Evaluation Points:	0.5
Point Variance:	0

Assessor Comment

Observe on site.

3.5.4.2.1.3

Does the building design address operations-related recycling programs through one or more of the following:

- Storage areas for recyclable waste at pick-up areas?

Status: Likely to be Verified

Projected Points: 0.5

User Self-Evaluation Points: 0.5

Point Variance: 0

Assessor Comment

Observe on site.

3.5.4.2.1.4

Does the building design address operations-related recycling programs through one or more of the following:

- Operational flow for handling and storage facilities for composting?

Status: Unlikely to be Verified

Projected Points: 0

User Self-Evaluation Points: 0

Point Variance: 0

Assessor Comment

See recommendation.

3.5.5.1.1

Is there a preliminary Building Service Life Plan that includes the expected service life estimates for the following:

- The building?

Status:	Likely to be Verified
Projected Points:	2
User Self-Evaluation Points:	2
Point Variance:	0

Assessor Comment

Provide the preliminary Building Service Life Plan for the building.

3.5.5.1.2

Is there a preliminary Building Service Life Plan that includes the expected service life estimates for the following:

- The structural systems, building envelope, and hardscape materials that will need to be replaced during the life of the building?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.5.5.1.3

Is there a preliminary Building Service Life Plan that includes the expected service life estimates for the following:

- The mechanical, electrical, plumbing, and energy generation systems that will require inspection and/or replacement during the service life of the building?

Status: Likely to be Verified

Projected Points: 2

User Self-Evaluation Points: 2

Point Variance: 0

Assessor Comment

Provide the preliminary Building Service Life Plan for the MEP systems.

3.5.5.2

Is there a schedule for maintenance, repair, and replacement for each building element, including the building fit-out (as applicable) for the duration of the building design life?

Status: Likely to be Verified

Projected Points: 1

User Self-Evaluation Points: 1

Point Variance: 0

Assessor Comment

Provide the maintenance and replacement schedule for building components.

3.5.6.1.1

Does the design specify the use of prefabricated, preassembled, and/or modular products?

Status: Likely to be Verified

Projected Points: 2

User Self-Evaluation Points: 2

Point Variance: 0

Assessor Comment

Describe prefabricated, preassembled, and/or modular products.

3.5.6.1.2

Does the building design use materials efficiently and/or minimize the use of raw materials as compared with typical construction practices?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Document excavation material re-used for fill in other areas of the site.

3.5.7.1.1.2

Is there a requirement that roofing membrane assemblies and systems are to be:

- Field-inspected by a roofing system manufacturer's technical personnel or RCI-certified third-party roofing inspector as per the prescribed industry protocol?

Status:	Likely to be Verified
Projected Points:	1.5
User Self-Evaluation Points:	1.5
Point Variance:	0

Assessor Comment

Provide inspection reports to verify inspection of the roofing system by qualified personnel.

3.5.7.2.1.2

Is there a requirement that building envelope flashings and sheet metal assemblies are to be:

- Inspected as per prescribed industry protocol?

Status:	Likely to be Verified
Projected Points:	1.5
User Self-Evaluation Points:	1.5
Point Variance:	0

Assessor Comment

Provide inspection reports to verify inspection of building envelope flashings per industry protocol.

3.5.7.3.1.3

Is there a requirement that all products for roof and wall openings (doors, windows, skylights etc.) are to:

- Be inspected as per the prescribed industry protocol, including field testing with respect to water penetration?

Status:	Likely to be Verified
Projected Points:	2
User Self-Evaluation Points:	2
Point Variance:	0

Assessor Comment

Provide reports to document inspection and field testing.

3.5.8.1.1.3

Is there a requirement that newly installed foundation systems for conditioned spaces are to:

- Undergo field-inspection of all vapor retarder and waterproofing assemblies as per prescribed industry protocol?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Provide reports to verify inspection of vapor retarders and waterproofing assemblies.

3.5.8.1.2.1

Is there a requirement for the following damp-proofing measures to be applied to all newly installed foundation walls in contact with grade:

- 5% slope grade away indicated from the building for at least 10 ft. (3.05 m)?

Status:	Likely to be Verified
Projected Points:	0.5
User Self-Evaluation Points:	0.5
Point Variance:	0

Assessor Comment

Slope of the finished grade away from the building will be observed on site.

3.5.8.2.1.2

Is there a requirement that waterproofing membrane assemblies are to:

- Be installed as per the manufacturer's requirements, and field-inspected as per prescribed industry protocol?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Provide inspection reports to verify installation of waterproofing membrane assemblies.

3.5.9.1.2

Is there a requirement to inspect the cladding installation as per the appropriate prescribed industry protocols for one of the following:
EIFS cladding systems?
OR
Aluminum framed glazing systems?
OR
Masonry veneer cladding?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Provide reports to verify inspection of the masonry veneer cladding.

3.5.9.1.3

Are joint sealers to be installed as per prescribed industry best practice, and field-inspected as per prescribed industry protocol?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Provide reports to verify inspection of the joint sealers.

3.5.9.2.2

Are rainscreen cladding assemblies required to pass requirements of AAMA 508-07 laboratory-testing?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.5.10.2.1

Do the construction documents indicate that the interior side of framed walls in Climate Zones 5, 6, 7, 8 and Marine 4 are installed with a Class I or II vapor retarder that is in accordance with the International Energy Conservation Code (IECC) 2012, International Energy Conservation Code (IECC) 2007 Supplement, or International Building Code® (IBC) 2009 Section 1405.3?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Clarify vapor retarder requirements.

3.5.10.2.2

Do the construction documents indicate that the walls of unvented crawl spaces must have insulation that is permanently fastened to the wall, extends downward from the floor to the finished grade level, and then vertically and/or horizontally for at least an additional 24 inches (60.9 cm)?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Clarify applicable spaces.

3.5.10.2.3

Do the construction documents indicate that exposed earth in unvented crawl space foundations must be covered with a continuous Class I vapor retarder, and installed with the following strategies:

All joints of the vapor retarder are overlapped by 6 in (15.2 cm) and are sealed or taped?
AND
The edges of the vapor retarder extend at least 6 in (15.2 cm) up the stem wall and are attached to the stem wall?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Clarify applicable spaces.

3.6.1.2.1

Are there low or ultra-low NOX emission boilers and furnaces?

Status: Likely to be Verified

Projected Points: 7

User Self-Evaluation Points: 7

Point Variance: 0

Assessor Comment

Provide submittals for Boilers specified on HVAC schedules. Observe on site.

3.6.1.2.2

Are there low or ultra-low CO emission boilers and furnaces?

Status: Likely to be Verified

Projected Points: 7

User Self-Evaluation Points: 7

Point Variance: 0

Assessor Comment

Provide submittals for Boilers specified on HVAC schedules. Observe on site.

3.6.2.2.1

Does cooling equipment (not including portable equipment) use refrigerants that have zero or "near zero" ozone depletion potential (ODP)?

or

Are there no refrigerants?

Status: Likely to be Verified

Projected Points: 6

User Self-Evaluation Points: 6

Point Variance: 0

Assessor Comment

Provide documentation for the ODP of the refrigerants for the cooling equipment.

3.6.2.3.1

Does cooling equipment (not including portable equipment) use refrigerants that have a low global warming potential (GWP100)?

or

Are there no refrigerants?

Status:	Likely to be Verified
Projected Points:	3
User Self-Evaluation Points:	3
Point Variance:	0

Assessor Comment

Provide documentation of the GWP for the refrigerant.

3.6.2.4.1

Is there a requirement that equipment installer(s) test remote commercial systems (e.g. supermarket refrigeration) as per GreenChill Best Practices Guideline Ensuring Leak-Tight Installations of Commercial Refrigeration Equipment?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.6.2.4.2

Are there refrigerant leak detectors capable of detecting leakage rates down to 2.0% per year for each refrigerant?

Status:	Likely to be Verified
Projected Points:	3
User Self-Evaluation Points:	3
Point Variance:	0

Assessor Comment

Provide submittals for leak detectors.

3.6.2.4.3

Is there an alarm system capable of alerting the building operator to leakage thresholds?

Status:	Likely to be Verified
Projected Points:	3
User Self-Evaluation Points:	3
Point Variance:	0

Assessor Comment

Provide submittals for the refrigerant alarm system.

3.6.3.1

Are there designated storage areas for hazardous materials / janitorial supplies with full-height, floor-to-floor walls and mechanical ventilation?

Status:	Likely to be Verified
Projected Points:	3
User Self-Evaluation Points:	3
Point Variance:	0

Assessor Comment

Ventilation for janitorial spaces will be observed on site.

3.7.1.2.1.1

Is the zone air distribution effectiveness EZ value greater than or equal to 0.9 in all regularly occupied spaces, excluding circulation and transitional spaces?

Status:	Likely to be Verified
Projected Points:	8
User Self-Evaluation Points:	8
Point Variance:	0

Assessor Comment

Clarify specifications for zone air distribution systems.

3.7.1.3.1.1

Are ventilation systems equipped with the following features:

- Exhaust outlets and plumbing vent stacks are located at least 20 ft (6.1 m) away from outdoor air intakes?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Observe on site.

3.7.1.3.1.2

Are ventilation systems equipped with the following features:

- Outdoor air intakes are located at least 30 ft (9.1 m) away from sources of pollution?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Observe on site.

3.7.1.3.1.3

Are ventilation systems equipped with the following features:

- Outdoor air intakes are protected with 0.3 in (6.4 mm) or smaller mesh screens?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Observe on site.

3.7.1.3.1.7

Are ventilation systems equipped with the following features:

- Roof drainage slopes away from outdoor air intakes?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Observe roof drainage on site.

3.7.1.4.1

Do rooms that are occupied by several people (e.g. open offices) and those that have variable occupancy (e.g. meeting rooms, assembly areas) have CO2 sensing and ventilation control equipment?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation

3.7.1.5.1

Is air handling equipment equipped with MERV 13 filtration?

OR

Does terminal equipment have the highest filtration level available for the specific equipment under consideration, and main air handlers in terminal systems equipped with MERV 13 filtration?

Status:	Likely to be Verified
Projected Points:	5
User Self-Evaluation Points:	5
Point Variance:	0

Assessor Comment

MERV 14 final filtration specified on AC unit schedule. Observe on site.

3.7.2.1.1

Is there a requirement that adhesives and sealants (not including carpet adhesives) will comply with prescribed limits of VOCs and/or be certified?

Status:	Likely to be Verified
Projected Points:	2.5
User Self-Evaluation Points:	2.5
Point Variance:	0

Assessor Comment

Low VOC requirements specified in Section 016116 - VOC Content Restrictions. Provide submittals to verify compliance.

3.7.2.1.2

Is there a requirement that carpet, carpet pad, and under-carpet adhesives will comply with the Carpet and Rug Institute's (CRI) Green Label Plus program?

Status:	Likely to be Verified
Projected Points:	2
User Self-Evaluation Points:	2
Point Variance:	0

Assessor Comment

Low VOC requirements specified in Section 016116 - VOC Content Restrictions. Provide submittals to verify compliance.

3.7.2.1.3

Is there a requirement that paints will comply with prescribed limits of VOCs and/or be certified?

Status:	Likely to be Verified
Projected Points:	3
User Self-Evaluation Points:	3
Point Variance:	0

Assessor Comment

Low VOC requirements specified in Section 016116 - VOC Content Restrictions. Provide submittals to verify compliance.

3.7.2.1.4

Is there a requirement that floors, floor coverings, and other interior products will comply with prescribed limits of VOCs and/or be certified?

Status:	Likely to be Verified
Projected Points:	2.5
User Self-Evaluation Points:	2.5
Point Variance:	0

Assessor Comment

Low VOC requirements specified in Section 016116 - VOC Content Restrictions. Provide submittals to verify compliance.

3.7.2.2.1.2

Are there the following measures to avoid fungus, mold, and bacteria:

- Materials and finishes are resistant to mold growth in spaces that generate high humidity (e.g. kitchens, toilet rooms, pools, laundry facilities, shower areas, etc.)?

Status:	Likely to be Verified
Projected Points:	2
User Self-Evaluation Points:	2
Point Variance:	0

Assessor Comment

Materials indicated on architectural drawings will be observed on site.

3.7.2.2.1.3

Are there the following measures to avoid fungus, mold, and bacteria:

- There are floor drains located in all areas where equipment failures may cause plumbing leaks or where certain operations may cause spills or overflows?

Status:	Likely to be Verified
Projected Points:	2
User Self-Evaluation Points:	2
Point Variance:	0

Assessor Comment

Floor drains indicated on plumbing drawings for applicable spaces will be observed on site.

3.7.2.3.1.1

Are there the following measures to facilitate maintenance of HVAC equipment that require routine and periodic maintenance:

- Access to equipment complies with the 2009 International Code Council International Mechanical Code (ICC IMC 2009), 2009 Uniform Mechanical Code (IAPMO/ANSI UMC 1-2009), and the manufacturer published and/or suggested recommendations?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

The project is required to comply with the IMC. Access will be observed on site.

3.7.2.3.1.2

Are there the following measures to facilitate maintenance of HVAC equipment that require routine and periodic maintenance:

- Distribution systems are installed in accordance with ANSI/ASHRAE Standard 62.1-2010, and SMACNA's HVAC Duct Construction Standards: Metal and Flexible 3rd Edition 2005?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

The project is required to comply with ASHRAE standards. Observe on site.

3.7.2.3.1.3

Are there the following measures to facilitate maintenance of HVAC equipment that require routine and periodic maintenance:

- Architectural features related to access are specified to be installed in accordance with the International Building Code® (IBC)?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

The project is required to comply with the IBC. Observe access on site.

3.7.2.3.1.4

Are there the following measures to facilitate maintenance of HVAC equipment that require routine and periodic maintenance:

- Access doors to HVAC are removable or have full degree swing?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Observe doors on site.

3.7.2.4.1

Are there carbon monoxide monitoring devices and alarms in enclosed areas where there are sources of combustion?

Status:	Likely to be Verified
Projected Points:	4
User Self-Evaluation Points:	4
Point Variance:	0

Assessor Comment

CO monitoring devices and alarms are required in accordance with specifications Section 234410 - CO Monitoring. Observe on site.

3.7.2.5.1

Do wet cooling towers have drift eliminators and inlet air louvers?

OR

Are there no wet cooling towers?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Provide submittals for cooling towers to verify applicable criteria. Observe on site.

3.7.2.6.1

Is the domestic hot water system designed to maintain hot water storage at or above 131° F (55° C)?

OR

Is there a tankless system?

Status: Likely to be Verified

Projected Points: 2

User Self-Evaluation Points: 2

Point Variance: 0

Assessor Comment

Hot water systems will include recirculating pumps to maintain required temperatures. Pumps indicated on HVAC schedules. Observe on site.

3.7.2.8.1.1

Are the following integrated pest management strategies used:

- Outdoor air inlets have insect screens of 18x14 mesh for plenum systems feeding multiple air handlers?

Status: Likely to be Verified

Projected Points: 0.5

User Self-Evaluation Points: 0.5

Point Variance: 0

Assessor Comment

Integrated pest management (IPM) strategies will be observed on site.

3.7.2.8.1.2

Are the following integrated pest management strategies used:

- Structural and mechanical openings are fitted with permanent protection (e.g. screens, sealants, etc.)?

Status:	Likely to be Verified
Projected Points:	0.5
User Self-Evaluation Points:	0.5
Point Variance:	0

Assessor Comment

IPM strategies will be observed on site.

3.7.2.8.1.3

Are the following integrated pest management strategies used:

- Advertising signs and other assemblies affixed to the building façade are designed and constructed in a way that reduces bird habitation, and penetrations in the façade are sealed to prevent entry?

Status:	Likely to be Verified
Projected Points:	0.5
User Self-Evaluation Points:	0.5
Point Variance:	0

Assessor Comment

IPM strategies will be observed on site.

3.7.2.8.1.4

Are the following integrated pest management strategies used:

- Mullions and ledges are less than 1 in (2.5 cm) deep to discourage bird roosting?

Status:	Likely to be Verified
Projected Points:	0.5
User Self-Evaluation Points:	0.5
Point Variance:	0

Assessor Comment

IPM strategies will be observed on site.

3.7.2.8.2

Is there a sealed storage area for food/kitchen solid waste and recycling?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Sealed storage area for food/kitchen solid waste and recycling will be observed on site.

3.7.2.9.2

Is there a requirement to post “No Smoking” signage in the building and near all building entrances and air intakes?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

No Smoking signage will be observed on site.

3.7.2.9.3

Have the following measures been met in order to address radon:

A site-specific assessment of radon potential has been conducted? Radon mitigation measures are specified?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

The project is located in EPA Zone 1 determined to have the Highest Potential for elevated radon levels. See recommendation.

3.7.2.10.1

Is there separate ventilation and/or physical isolation for specialized activities that generate pollutants?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Ventilation and exhaust systems shown on HVAC plans and schedules will be observed on site.

3.7.2.10.2

Are the separate ventilation systems for specialized activities capable of maintaining on average, a negative pressure at least 5.0 Pascals (0.02 in of water gauge) on average?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Required by specifications. Observe on site.

3.7.3.1.1

What percent of floor area occupied for critical visual tasks achieves a minimum daylight factor (DF) of 2 (excluding all direct sunlight penetration)?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.7.3.1.2

What percentage of task areas were designed to have views to the exterior or atria within 25 ft. (7.6 m) from a window?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Views to the exterior will be observed on site.

3.7.3.1.3

Are there shading devices on southern, western, and eastern exposures?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.7.3.1.4

Are there shading devices to eliminate direct sunlight from reaching task areas?

Status:	Likely to be Verified
Projected Points:	1
User Self-Evaluation Points:	1
Point Variance:	0

Assessor Comment

Shading devices will be observed on site.

3.7.3.1.5

What percentage of daylit areas are there photo-sensors to maintain consistent lighting levels throughout the day using both daylighting and artificial lighting?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

Provide photo-sensors to maintain consistent lighting levels.

3.7.3.2.1

Do primary occupied spaces have the prescribed lighting levels for the types of tasks anticipated in the various building spaces?

Status:	Likely to be Verified
Projected Points:	7
User Self-Evaluation Points:	7
Point Variance:	0

Assessor Comment

Provide documentation the lighting design meets prescribed lighting levels, luminance ratios, and luminance values.

3.7.3.2.2

Has a lighting designer signed off on calculations that show that luminance ratios do not exceed the following as per IESNA for tasks:

3:1 between the task and adjacent surroundings? 10:1 between the task and remote (non-adjacent) surfaces? 20:1 between the brightest and darkest surface in the field of view? 8:1 between rows of luminaires where there is indirect lighting and where ceiling luminance exceeds 425 cd/m2 (124.1 fL)?

Status: Likely to be Verified

Projected Points: 3

User Self-Evaluation Points: 3

Point Variance: 0

Assessor Comment

Provide documentation the lighting design meets prescribed lighting levels, luminance ratios, and luminance values.

3.7.3.2.3

Has a lighting designer signed off on the design showing that where there is direct lighting the average luminance does not exceed the following values for given luminaire angles:

850 cd/m2 (248.1 fL) at 65° from the vertical? 350 cd/m2 (102.2 fL) at 75° from the vertical? 175 cd/m2 (51.1 fL) at 85° from the vertical?

Status: Likely to be Verified

Projected Points: 3

User Self-Evaluation Points: 3

Point Variance: 0

Assessor Comment

Provide documentation the lighting design meets prescribed lighting levels, luminance ratios, and luminance values.

3.7.5.1.2

Has an Acoustical Consultant or Acoustician signed off on the design that shows that open office areas conform to ASTM E1573-02 with respect to spatial uniformity, temporal uniformity, spectrum shape, and sound level?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.7.5.1.3.1

Has an Acoustical Consultant or Acoustician signed off on a design that complies with minimum Sound Transmission Class (STC) ratings of floor/ceiling assemblies, walls and doors between acoustically separated areas (e.g. learning spaces), and adjacent spaces as follows and as applicable:

- STC-45 where the adjacent space is a corridor, stair, office, or conference room?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.7.5.1.3.2

Has an Acoustical Consultant or Acoustician signed off on a design that complies with minimum Sound Transmission Class (STC) ratings of floor/ceiling assemblies, walls and doors between acoustically separated areas (e.g. learning spaces), and adjacent spaces as follows and as applicable:

- STC-50 where the adjacent space is a quiet area, speech clinic, health clinic, classroom, or an exterior wall?

Status: Unlikely to be Verified

Projected Points: 0

User Self-Evaluation Points: 0

Point Variance: 0

Assessor Comment

See recommendation.

3.7.5.1.3.3

Has an Acoustical Consultant or Acoustician signed off on a design that complies with minimum Sound Transmission Class (STC) ratings of floor/ceiling assemblies, walls and doors between acoustically separated areas (e.g. learning spaces), and adjacent spaces as follows and as applicable:

- STC-50 for doors to quiet areas?

Status: Unlikely to be Verified

Projected Points: 0

User Self-Evaluation Points: 0

Point Variance: 0

Assessor Comment

See recommendation.

3.7.5.1.3.4

Has an Acoustical Consultant or Acoustician signed off on a design that complies with minimum Sound Transmission Class (STC) ratings of floor/ceiling assemblies, walls and doors between acoustically separated areas (e.g. learning spaces), and adjacent spaces as follows and as applicable:

- STC-40 for doors to music rooms, cafeterias, natatoria (e.g. swimming pool), or gymnasia?

Status: Likely to be Verified

Projected Points: 1

User Self-Evaluation Points: 1

Point Variance: 0

Assessor Comment

Provide submittals to verify STC ratings for applicable doors.

3.7.5.1.3.5

Has an Acoustical Consultant or Acoustician signed off on a design that complies with minimum Sound Transmission Class (STC) ratings of floor/ceiling assemblies, walls and doors between acoustically separated areas (e.g. learning spaces), and adjacent spaces as follows and as applicable:

- STC-35 for exterior windows?

Status: Likely to be Verified

Projected Points: 1

User Self-Evaluation Points: 1

Point Variance: 0

Assessor Comment

Provide submittals to verify STC ratings for windows.

3.7.5.1.4

Does the Impact Insulation Class (IIC) design of all floor-ceiling assemblies have a minimum rating of IIC-50?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.7.5.1.5

Has an Acoustical Consultant or Acoustician signed off on a design that shows Reverberation Time (RT) in quiet areas and all other areas where speech intelligibility is important does not exceed the following values as applicable:

0.6 seconds in spaces less than 10,000 cu. ft. in volume? 0.7 seconds in spaces 10,000 - 20,000 cu. ft. in volume? Compliance with Annex C of ANSI/ASA S12.60-2010/Part 1 in spaces larger than 20,000 cu. ft. in volume?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.7.5.2.1.1

Has an Acoustical Consultant or Acoustician signed off on a design that complies with minimum background sound levels associated with mechanical systems as follows:

- Airborne sound power levels from HVAC unit do not exceed the Room Criteria detailed in ASHRAE Systems Application Handbook 2007, Chapter 47, Table 42 for listed spaces when HVAC units are in operation?

Status: Unlikely to be Verified

Projected Points: 0

User Self-Evaluation Points: 0

Point Variance: 0

Assessor Comment

See recommendation.

3.7.5.2.1.2

Has an Acoustical Consultant or Acoustician signed off on a design that complies with minimum background sound levels associated with mechanical systems as follows:

- Spaces are designed such that room background noise using the Room Criteria (RC) ratings complies with ASHRAE Systems Application Handbook-2007, Chapter 47, Table 42.

Status: Unlikely to be Verified

Projected Points: 0

User Self-Evaluation Points: 0

Point Variance: 0

Assessor Comment

See recommendation.

3.7.5.2.2.1

Has an Acoustical Consultant or Acoustician signed off on the design such that there are the following measures to minimize airborne noise from the HVAC system:

- Duct transitions are spread out and graduated to minimize generation of turbulence and air flow separations?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.7.5.2.2.2

Has an Acoustical Consultant or Acoustician signed off on the design such that there are the following measures to minimize airborne noise from the HVAC system:

- Secondary attenuators are located immediately downstream of duct fittings that would otherwise generate noise?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.7.5.2.2.3

Has an Acoustical Consultant or Acoustician signed off on the design such that there are the following measures to minimize airborne noise from the HVAC system:

- Air flow velocities in low pressure ductwork did not exceed the following values?

For main duct trunk lines: 900 f/m (4.5 m/s)For branch ducts: 700 f/m (3.5 m/s)For final run outs: 400 f/m (2.0 m/s)For main vertical ducts in shafts: 1200 f/m (6 m/s)

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.7.5.2.2.4

Has an Acoustical Consultant or Acoustician signed off on the design such that there are the following measures to minimize airborne noise from the HVAC system:

- Where significant cross talk paths exist between two habitable spaces, there are sound attenuators and/or silencers, or ducts are designed in a "Z" configuration?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.7.5.2.2.5

Has an Acoustical Consultant or Acoustician signed off on the design such that there are the following measures to minimize airborne noise from the HVAC system:

- HVAC grilles and diffusers were selected that comply with ANSI/ASA S12.60-2010/Part 1?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.7.5.2.3.1

Has an Acoustical Consultant or Acoustician signed off on the design such that it adheres to the following best practices to minimize structure-borne noise from the HVAC system:

- Fans and other powered HVAC equipment are acoustically separated from the structure using vibration isolators?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.7.5.2.3.2

Has an Acoustical Consultant or Acoustician signed off on the design such that it adheres to the following best practices to minimize structure-borne noise from the HVAC system:

- Ducts are supported on resilient mounts to isolate them from the structural system, and ducts are isolated using resilient material where they pass through walls?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.7.5.2.4.1

Has an Acoustical Consultant or Acoustician signed off on the design such that it adheres to the following best practices to mitigate noise from the plumbing system:

- Piping was not run above quiet areas and learning spaces with the exception of sprinklers and radiant heating systems?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.7.5.2.4.2

Has an Acoustical Consultant or Acoustician signed off on the design such that it adheres to the following best practices to mitigate noise from the plumbing system:

- Waste water piping noise is mitigated using cast iron pipe or with acoustic insulation above quiet areas and learning spaces, and a water hammer arrester was used?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.

3.7.5.2.5.2

Has an Acoustical Consultant or Acoustician signed off on the design such that it complies with the following best practices to minimize noise from the electrical system:

- Noise from light fixtures and other electrical fixtures does not exceed values indicated in ANSI/ASA S12.60-2010/Part 1?

Status:	Unlikely to be Verified
Projected Points:	0
User Self-Evaluation Points:	0
Point Variance:	0

Assessor Comment

See recommendation.