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

Project Name: Austin Fire Station No. 22 / EMS12 Date: 05/25/2021

Potential Effort Additional Fees Potential Cost Cost Value \$ Y ? N Credit Credit Points Status CoA Baseline Criteria for Building Projects Deliverables (0-3)(0-3)Required Documentation - Project Team Letter Forms: Sample Form IPc_Integrative_Process Worksheet: v4_Integrative Process Worksheet_v03 • Special Circumstances (if applicable) • Energy-Related Systems - A simple box energy modeling 1 0 0 Design Integrative Process Not Attempted is a preliminary building model used to analyze the building's energy loads. Project teams can use the EPA's Target Finder tool or a similar tool in order to benchmark energy performance. Target Finder allows projects to set target goals for a building design's energy demands. Water-Related Systems: EPA Water Budget Tool Location and Transportation 0 0 16 Design Credit LEED for Neighborhood Development Location 16 Not Elligible orms: LTc Sensitive Land Protection Sensitive Land Protection Not Attempted Special Circumstances (if applicable) Applicable Site Plans . 0 0 2 Design High Priority Site Not Elligible OPTION 1 Forms: LTc_Sensitive_Land_Protection Surrounding Density and Diverse Uses In Progress •Special Circumstances (if applicable) •Applicable Site Plans ed. Form: LTc Quality Transit •Map: Indicating project location, location of transit stops, routs serving each sstop and the walking routes between the location of the project functional entry and the stops •Schedule: Provide all transit types, provide weekday and weekend route schedules Green Vehicles Complete showing the frequency of trips and services in opposite directions •Verification: Provide the planned stops or stations will be sited, funded, and under onstruction by the date of the certification of occupancy and will be completed within two vears of that date •Forms: Plp_Project_Information •Vicinity Map-Provide a vicinity map that shows routes along a bicycle network to the destination selected. The map must identify use type, bicycling distance to the destination form the project boundary (must be within 3 mi) and each segment of the bicycling network identified by type 1 0 0 Design Bicycle Facilities In Progress Use City of Austin Standard 710S. ccording to the bicycle network definition. ·Bicycle Network Commitment-Provide a capital improvement plan or equivalent document signed on developer letterhead that confirms that the bicycle network will be fully funded by the date of he certificate of occupancy and is scheduled from completion within one year of that date. 0 0 1 Design Reduced Parking Footprint Not Elligible oForms: LTc_Green_Vehicles oParking plan oParking Signage Green Vehicles lot Attempted oEVSE Parking Signage oEVSE Manufacture Documentation oSpecial Circumstances (if applicable) 0 5 3 2 Sustainable Sites •SSp_Construction_Activity_Pollution LOCAL STANDARDS AND CODES •ESC Plan Construction Activity Pollution Prevention •Conractor declaration Required •Photographs •ESC implementation narrative •Special Circumstances •SSc Site Assessment Site Assessment ot Attempted •Site Assessment Worksheet_0 SSc_Protect_or_Restore_Habitat Option 1 •Site plan •Soil Characteristics Site Development - Protect or Restore Habitat 2 lot Attempted Option 2 Verification of recognition •Confirmation of accreditation ·Contact Refer LEED Criteria - Limit development footprint. Exceed zoning Open Space SSc_Open_Space requirement for open space Rainwater Management Not Elligible 0 2 1 3 •SSc_Heat_Island Heat Island Reduction Refer LEED Criteria 2 •Site plan •Manufacture documentation

	1 0	0 (0	Light Pollution Reduction	1	Not Attempted	Only light exterior areas for comfort and safety. Do not allow light trespass onto adjacent properties. Pedestrian orientation - Provide ease and security of pedestrian access both day and night.	-SSc_Light_Pollution Form (Attached) -Site light Plan: Lighting Plan depicting the project boundary, the property line (if different from the project boundary), the lighting boundary, any additional properties including in the lighting boundary (if applicable), the location and label of all exterior luminaries within the project boundary (both exempt and nonexempt), and any relevant project site conditionsInternally Illuminated exterior signage calculations For Option 1 -BUG Rating Method -Luminaire Schedule Uplight: Showing the uplight rating of each unique luminaire (lamp/ballast combination) in the orientation and tilt specified in the project design. If there are multiple orientations/tilts, shoe the uplight rating for each orientation/tileLuminaire Schedule light Trespass: Showing the backlight and glare rating of each unique luminaire (lamp/ballast combination) in the orientation and tilt specified in the project design. If there are multiple orientations/tilts, show the backlight and glare ratings for each orientation/tilt. Also include the mounting heights for each unique luminaire (photometric center of the luminaire above grade) For Option 2 -Uplight Illuminance Calculations -Light Trespass Calculations: Provide the greatest vertical illuminance value for each of the vertical calculation planes at the light boundary. Also, provide the calculations grid for the one vertical plane that has the greatest vertical illuminance (worst case scenario) with the point of the greatest illuminance highlighted.		
0 7	7 2	2 2	2	Water Efficiency	11			WE - 0 (1 - W)		
Y	Y	Y	Y Design Credit	Outdoor Water Use Reduction	Required	Not Attempted		WEpc_Outdoor_Water Option 2 EPA WaterSense Tool or Outdoor Water Use Reduction Calculator Site Plan Additional Reduction Calculations		
Y	YY	Y	Y Design Credit	Indoor Water Use Reduction	Required	Not Attempted		-WEpc_Indoor_Water -v4v4 1_Indoor Water Use Reduction Calculator_v04_0 -Fixtures and Fitting Cutsheets -Appliances and process water cutsheets		
Y \	Y Y	Y \	Y	Building-Level Water Metering	Required	Not Attempted		•WEp_Water_Metering •Letter of commitment		
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(0 0	0 2	2	Cooling Tower Water Use	2	Not Elligible		Potable water analysis details		
	1 0	0 (0	Water Metering	1	Not Attempted		WEc_Water_Metering		
0 1	1 2	2 4	2	Energy and Atmosphere	33					
		_					Include a Commissioning plan for Mechanical, Electrical and			
Υ `	· ·		Y Const. Credit	Fundamental Commissioning and Verification	Required	Not Attempted	Plumbing systems in the design and construction process.			
Υ `	Y Y	Υ ١	Y Design Credit	Minimum Energy Performance	Required	Not Attempted	Refer LEED Criteria and Energy Star rating of 75	Need to select the OPTION		
Y \	Υ	Y	v I							
Y	YY		Υ	Building-Level Energy Metering	Required	Not Attempted		EAp_Energy_Metering Letter of Commitment		
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YY	Y	Y	Design Credit	Minimum Indoor Air Quality Performance	Required	Not Attempted	a. Comply with current version of ASHRAE 62.1 Sections 4 - 7 Ventilation for acceptable Indoor Air Quality	•EQp_IAQ_Performance •v2009v4v4 1_Minimum_IAQ_Performance_Calculator_v04 •Option 1 ASHRAE Standard 62.1-2012 •CIBSE – documentation demonstrating that natural ventilation is an effective strategy for the project as determined through the flow process in figure 2.8 of the CIBSE Application Manual •ASHRAE – documentation demonstrating that the minimum outdoor air opening and space configurations meet or exceed the minimum values from the natural procedure outlined in ASHRAE 62.1-2010 section 6.4 •Mechanical ventilation controls documentation •Natural ventilation controls documentation			
YY	Y			Environmental Tobacco Smoke Control	Required	In Progress	Conform with City Policy but increase distance to 25ft.	*Forms *Site plan with non-smoking and smoking areas (25' from entrances) Scaled site plan or map showing the location of designated outdoor smoking and no-smoking areas, location of property line, and site boundary and indicating 25-foot (7.5-meter) distance from building openings *Signage:Drawings, photos, or other evidence of signage communicating no-smoking policy *Description of project's no-smoking policy, including information on how policy is communicated to building occupants and enforced Copy of no-smoking policy, signed letter from owner describing project's no-smoking policy and enforcement, or copy of any legally binding covenants or restrictions to verify status of residential units as nonsmoking Any code restrictions that prevent establishment of no-smoking requirements			
1	1	0	Design Credit	Enhanced Indoor Air Quality Strategies	2	Not Attempted		Need to select the OPTION			
2	1	0 0	Const. Credit	Low-Emitting Materials	3	Not Attempted	Low-Emitting Materials—Adhesives and Sealants: All installed sealants and adhesives must meet South Coast Air Quality Management District standards Rule 1168. Low-Emitting Materials—Paints and Coatings: All paints and primers used in the interior of the building must not exceed the VOC limit of Green Seal Environmental Standard GS-11 and GC-03. All coatings used in the interior of the building must not exceed the VOC limit of SCAQMD Rule 1113. Low-Emitting Materials—Flooring Systems: All installed carpets meet Carpet & Rug Institute's (CRI) Green Label Plus minimum standards. All installed carpet pads meet CRI Green Label minimum standards. All resilient flooring products, including linoleum, laminate flooring, wood flooring, ceramic flooring, wall base, and rubber flooring must be FloorScoreTM certified. Low-Emitting Materials—Flooring Systems: All installed carpets meet Carpet & Rug Institute's (CRI) Green Label minimum standards. All resilient flooring products, including linoleum, laminate flooring, wood flooring, ceramic flooring, wall base, and rubber flooring must be FloorScoreTM certified. Low-Emitting Materials—Composite Wood and Agrifiber Products; Require that all installed composite wood and insulation contains no added urea-formaldehyde.				
	0			Construction Indoor Air Quality Management Plan	1	Not Attempted	Construction IAQ Management Plan—During Construction: Contractor to provide and implement a Construction Indoor Air Quality Management Plan that meets the recommended control measures of the Sheet Metal and Air Conditioning National Contractor's Association IAQ Guidelines. Protect materials from moisture damage and use MERV 8 filters at R.A.Gs for construction phase Std Spec 1510 Construction IAQ Management Plan—Before Occupancy: Refer LEED criteria. Include flush out process in projject requirements and construction schedule.				
2	0	0	const. Credit	Indoor Air Quality Assessment	2	Not Attempted					
		0		Thermal Comfort	1	Not Attempted		Need to select the OPTION			
	0			Interior Lighting	2	Not Attempted	Refer LEED criteria. 8g. Provide adequate daylighting to all regularly occupied spaces and integrate daylighting systems with electric lighting systems and controls.	Need to select the OPTION			
1	1	1 0	Design Credit	Daylight	3	Not Attempted	Refer LEED criteria. 8g. Provide adequate daylighting to all regularly occupied spaces and integrate daylighting systems with electric lighting systems and controls.				
0	1	0 6		Quality Views	1	Not Elligible	Provide views of the exterior through windows for all habitable spaces, especially for occupants that are in the room for most of the day.				
1	0	0	Design Credit	Acoustic Performance	1	Not Attempted					
0 3	0	3		Innovation	6						
	0		Design	Innovation	5	Not Attempted					
		0) ouit	LEED Accredited Professional	1	Not Attempted					
			out								
0 3				Regional Priority	4	Not Attacasts I					
	0			Regional Priority: Outdoor water use reduction (2) Regional Priority: Indoor water (4)	1	Not Attempted Not Attempted					
	0	_		Regional Priority: Optimize energy performance (10)	1	Not Attempted					
0	0	1		Regional Priority: Specific Credit	1	Not Elligible					

1 58 18 47 TOTALS Possible Points: 100 Certified: 40 to 49 points, Value: 50 to 59 points, Value: 50 to 59 points, Value: 50 to 59 points, Value: 50 to 79 points, Value: 60 to 79 points, Value:

Note from Guerra: VRF system typically performs 12-15% higher than baseline = 5 points

Regional Priority Credits for Austin, TX: (automatically get these points if we hit these thresholds for that credit in()

Renewable energy production (2)
Outdoor water use reduction (2)
Indoor water (4)
Rainwater management (2),

Reduced parking footprint (1)

Innovation Credit ideas:

Educational component to building

Green Housekeeping

Pest Management

Carbon Footprint Reduction using mass timber structural system