

SUSTAINABLE NORTH PARK REDEVELOPMENT AREA SUSTAINABLE DEVELOPMENT QUALIFICATION PROGRAM

North Park Redevelopment PAC Green Initiative Sub committee

June 6, 2010

PLATT/WHITELAW ARCHITECTS, INC.

A SUMMARY

In evaluating projects that apply for redevelopment funds, the North Park Redevelopment Area Project Area Committee wishes to create a program that prioritizes projects that exhibit significant sustainable characteristics (Program).

In July 2009, a subcommittee appointed by the PAC, established a list of Goals and Objectives upon which to base this Program, see attachment A North Park Redevelopment Area PAC Green Initiatives Subcommittee: Goals and Objectives.

The subcommittee, with Redevelopment Division project manager, Michael Lengyel, has worked with consultant Platt/Whitelaw Architects to develop a Program that identifies appropriate sustainable development characteristics that can be used to qualify projects under this Program. The subcommittee, the project manager and the consultant (Team) identified the following issues regarding the program.

- In order for such a Program to be tailored to North Park, a set of sustainability indicators for success, based on the subcommittee's Goals and Objectives was established; these indicators can be used to check a project's overall benefit to the sustainable goals of North Park. See Attachment B Sustainable North Park Redevelopment Area Indicators for Success.
- 2 In order for such a program to be clear, fair and consistent, verifiable measures of sustainability criteria need to be established. Projects come before the PAC for consideration at an early stage in the design. At that time, the PAC can determine qualifying levels of sustainability based upon stated design intent, but verification that a project meets its intended sustainability goals will be required as the project progresses.

The Team has examined options for the establishment of sustainable project criteria that may be used to qualify projects within the North Park Redevelopment Area. In order to assure a predictable method of verification, it has concluded that the final Program should align with the Sustainable Incentive program that is currently under development by the City of San Diego under which projects will be verified through the plan check and inspection process. However, implementation of the City's program is not expected to occur until next year, therefore the Team recommends that an interim Program for the North Park Redevelopment Area be implemented until that time. The City's program under development appears to be using the CALGreen Code as the basis for qualification. The CALGreen Code, to be adopted in January 2011, contains mandatory measures and two tiers of optional measures that mark higher levels of sustainability and will probably be used as the City's qualification threshold for projects to receive various incentives.

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B FINAL PROGRAM (DRAFT)

To qualify for redevelopment funds, a project will demonstrate serious contributions toward the Sustainable North Park Redevelopment Area Sustainability Indicators by exceeding the CalGreen Code and meeting one of the voluntary tiers indicated below. In the case where projects are competing for funding, projects demonstrating a higher level (tier) of compliance will be given preference. A summary of requirements for meeting CALGreen Tier One and Tier Two is provided in Attachment C

Qualifying Levels

CALGreen Tier One

Residential

Meet mandatory provisions of the CALGreen Code Division 4 and comply with the provisions of Tier One Prerequisite and Elective Measures, identified in A4.601.4.2 and further defined in Division A4.1 through A4.5.

Non Residential

Meet mandatory provisions of the CALGreen Code Division 5 and comply with the provisions of Tier One Prerequisite and Elective Measures, identified in A5.601.2 and further defined in Division A5.1 through A5.5.

2 CALGreen Tier Two

Residential

Meet mandatory provisions of the CALGreen Code Division 4 and comply with the provisions of Tier Two Prerequisite and Elective Measures, identified in A4.601.5.2 and further defined in Division A4.1 through A4.5.

Non Residential

Meet mandatory provisions of the CALGreen Code Division 5 and comply with the provisions of Tier Two Prerequisite and Elective Measures, identified in A5.601.3 and further defined in Division A5.1 through A5.5.

3 Alternate Compliance

Projects that attain LEED certification will be considered equivalent to Tier One CALGreen projects

Projects that attain Silver LEED certification will be considered equivalent to Tier Two CALGreen projects

Projects that attain Gold or Platinum LEED certification will be considered higher priority that CALGreen Tier Two projects

For projects that meet either CALGreen Tier One or Tier Two or their alternate compliance equivalents, applicants may submit documentation demonstrating additional innovative strategies that go beyond the CALGreen or LEED categories but meet the intent of the

Sustainable North Park Redevelopment Area Sustainability Indicators. The Project Area Committee will consider this documentation on a case by case basis to determine the priority of these projects.

Other comprehensive certification programs for sustainable buildings such as Green Point Rated for homes may be considered on a case by case basis.

C INTERIM PROGRAM.

Projects applying for funding in excess of \$100,000:

Until such time as the City's program is in place, the Team has determined that projects that apply for and obtain LEED Silver certification will be qualified under the Sustainable North Park Redevelopment Area Program.

The preliminary application will include a completed LEED Checklist with an accompanying narrative describing how each claimed prerequisite and credit will be met. Applicants will select the most appropriate LEED rating system for their projects (the LEED checklists for New Construction and Major Renovations, for Commercial Interiors, and for Homes, are all included as Attachment D, for reference).

Projects will receive higher priority when LEED Regional Credits and/or LEED innovation & Design Credits that meet the intent of the Sustainable North Park Redevelopment Area Indicators for Success (Attachment B) are achieved. The accompanying narrative will include statements showing how each claimed indicator will be met through these credits.

Other comprehensive certification programs for sustainable buildings such as Green Point Rated for homes may be considered on a case by case basis.

Projects applying for funding up to \$100,000:

For smaller projects, LEED Silver certification is not a prerequisite. However, preference will be given to applicants who incorporate elements that meet the Sustainable North Park Redevelopment Area Indicators for Success (Attachment B). The preliminary application will include an accompanying narrative describing how each claimed indicator will be met.

ATTACHMENT A

North Park Redevelopment Area PAC Green Initiatives Subcommittee Goals & Objectives

North Park Redevelopment PAC Green Initiative Sub-Committee Goals and Objectives

1) Maintain Cultural/ Historical Integrity

- a. New development to support existing cultural
- b. Integrate with community plan update

2) Conservation/Reuse/ Resource Efficiency

- a. Reduction of carbon output/ use of energy generated by fossil fuels
- b. Increase energy efficiency
- c. Maximize renewable energy
- d. Reduction of imported water use
- e. Tree Planting
- f. Decrease material entering landfill
- g. Eliminate toxins/pollution
- h. Storm water recycling

3) Public Facilities & Parks

a. Create parks/ gathering spaces

4) Promote a Sustainable Green Economy

- a. Hire and train locally (social justice issues)
- b. Community program for reuse/recycling/composting

5) Transportation

- a. Promote alternative vehicles
- b. Increase use of transit
- c. Increase bike-ability
- d. Increase walk-ability

6) Housing

- a. Rehab or restoration of existing housing stock
 - 1) Single family
 - 2) Multi-Family (1-4 units)
 - 3) Commercial residential

ATTACHMENT B

Sustainable North Park Redevelopment Area Indicators for success

Promote Livable Healthy Community

Maintain/promote the cultural/historical Integrity of the community Create public open space/gathering spaces (SF of open space) Promote walk-ability & bike-ability Promote urban forestry (Number of trees) Reduce pollutants & toxins

Reduce GHG Emissions

Promote energy efficiency (kBTU/sf or kWh/sf)
Promote use of renewable energy (annual kWh)
Reduce gasoline powered transportation
Reduce heat island effect

Water Conservation

Reduce quantity & pollution of urban storm water run off Reduce use of imported water (Gallons)

Resource Conservation

Decrease material entering landfill

Promote use of recycled, rapidly renewable materials

Promote rehabilitation and restoration of existing building stock

Promote Sustainable Local Economy

Promote job training & growth (Number of jobs)
Promote green businesses
Create neighborhood services

ATTACHMENT C Summary Of Calgreen Tier 1 And 2 Measures

CALGreen Tier One

Residential

Meet mandatory provisions of the CALGreen Code Division 4 and comply with the provisions of Tier One Prerequisite and Elective Measures, identified in A4.601.4.2 and further defined in Division A4.1 through A4.5. A summary of these measures is as follows.

Division A4.1 Planning & Design

- Topsoil protection: Stockpile, protect and reuse displaced topsoil
- Permeable Paving: Not less that 20% of total parking, walking & patio surface shall be permeable
- Cool roof (exception for green roofs): Meet Aged Solar reflectance & thermal emittance, or Solar Reflectance Index required for Tier One
- Comply with at least 2 elective measures from Division A4.1 Planning & Design

Division A4.2 Energy Efficiency

- Exceed 2008 State Energy Efficiency Standards by 15%
- Comply with at least 4 elective measures from Division A4.2

Division A4.3 Water Efficiency & Conservation

- Reduced flow rate for kitchen faucets
- Potable water use reduction for landscape irrigation per Tier One requirements
- Comply with at least 1 elective measure from Division A4.3

Division A4.4 Material Conservation & Resource Efficiency

- Reduce cement by 20% in foundation mix design
- Use materials with not less than 10% (by value) preconsumer or post consumer recycled content
- Reduce construction waste by not less than 65%
- Comply with at least 2 elective measures from Division A4.4

Division A4.5 Environmental Quality

- 80% of total resilient flooring area to comply with VOC emission limits
- Thermal insulation to comply with VOC emission limits per Tier One requirements
- Comply with at least 1 elective measure from Division A4.5

Non Residential

Meet mandatory provisions of the CALGreen Code Division 5 and comply with the provisions of Tier One Prerequisite and Elective Measures, identified in A5.601.2 and further defined in Division A5.1 through A5.5. A summary of these measures is as follows.

A5.601.2.3 Energy Performance:

Exceed 2008 State Energy Efficiency Standards by 15%

Division A5.1 Site Planning & Design:

- Parking: Designate 10% of parking for fuel efficient vehicles
- Cool roof: Meet Aged Solar reflectance & thermal emittance, or Solar Reflectance Index required for Tier One
- Comply with at least 1 elective measure from Division A5.1

Division A5.3 Water Efficiency & Conservation

- Reduce Indoor Potable Water Use by 30%
- Reduce Outdoor Potable Water Use per A5.304.4.1
- Comply with at least 1 elective measure from Division A5.3

Division A5.4 Material Conservation & Resource Efficiency

- Use materials with not less than 10% (by value) preconsumer or post consumer recycled content
- Reduce construction waste by not less than 65%
- Comply with at least 1 elective measure from Division A5.4

Division A5.5 Environmental Quality

- 80% of total resilient flooring area to comply with VOC emission limits
- Thermal insulation to comply with VOC emission limits
- Comply with at least 1 elective measure from Division A5.5



CALGreen Tier Two

Residential

Meet mandatory provisions of the CALGreen Code Division 4 and comply with the provisions of Tier Two Prerequisite and Elective Measures, identified in A4.601.5.2 and further defined in Division A4.1 through A4.5. A summary of these measures is as follows.

Division A4.1 Planning & Design

- Topsoil protection: Stockpile, protect and reuse displaced topsoil per Tier One & Tier Two requirements
- Permeable Paving: Not less that 30% of total parking, walking & patio surface shall be permeable
- Cool roof (exception for green roofs): Meet Aged Solar reflectance & thermal emittance, or Solar Reflectance Index required for Tier Two
- Comply with at least 4 elective measures from Division A4.1 Planning & Design

Division A4.2 Energy Efficiency

- Exceed 2008 State Energy Efficiency Standards by 30%
- Comply with at least 6 elective measures from Division A4.2

Division A4.3 Water Efficiency & Conservation

- Reduced flow rate for kitchen faucets per Tier One requirements
- EnergyStar qualified and reduced water flow for dishwashers
- Potable water use reduction for landscape irrigation per Tier Two requirements
- Comply with at least 2 elective measure from Division A4.3

Division A4.4 Material Conservation & Resource Efficiency

- Reduce cement by 25% in foundation mix design
- Use materials with not less than 15% (by value) preconsumer or post consumer recycled content
- Reduce construction waste by not less than 75%
- Comply with at least 4 elective measures from Division A4.4

Division A4.5 Environmental Quality

- 90% of total resilient flooring area to comply with VOC emission limits
- Thermal insulation to comply with VOC emission limits per Tier 2 requirements
- Comply with at least 1 elective measure from Division A4.5

Non Residential

Meet mandatory provisions of the CALGreen Code Division 5 and comply with the provisions of Tier Two Prerequisite and Elective Measures, identified in A5.601.3 and further defined in Division A5.1 through A5.5. A summary of these measures is as follows.

A5.601.2.3 Energy Performance:

Exceed 2008 State Energy Efficiency Standards by 30%

Division A5.1 Site Planning & Design:

- Parking: Designate 12% of parking for fuel efficient vehicles
- Cool roof: Meet Aged Solar reflectance & thermal emittance, or Solar Reflectance Index required for Tier Two
- Comply with at least 3 elective measures from Division A5.1

Division A5.3 Water Efficiency & Conservation

- Reduce Indoor Potable Water Use by 35 (40%?)%
- Reduce Outdoor Potable Water Use per A5.304.4.2
- Comply with at least 3 elective measures from Division A5.3

Division A5.4 Material Conservation & Resource Efficiency

- Use materials with not less than 15% (by value) preconsumer or post consumer recycled content
- Reduce construction waste by not less than 80%
- Comply with at least 3 elective measures from Division A5.4

Division A5.5 Environmental Quality

- 90% of total resilient flooring area to comply with VOC emission limits
- Thermal insulation to comply with VOC emission limits & no added formaldehyde
- Comply with at least 3 elective measure from Division A5.5

Additional: Comply with at least 3 additional elective measures from any division

ATTACHMENT D LEED Score Cards

(A)	Tullog	de la	LEED	2009 for New Construction and Major Renovation	
24		S. C.	Project	t Checklist	
	USCE	/	Project I		
			Date		
0	0	0	Custair	nable Sites Possible Points:	26
Y	N	?	Justan	rossible rollics.	20
Y	1		Prereq 1	Construction Activity Pollution Prevention	
			Credit 1	Site Selection	1
			Credit 7	Development Density and Community Connectivity	5
		13.	Credit 3	Brownfield Redevelopment	1
			Credit 4.1	Alternative Transportation—Public Transportation Access	6
			Credit 4.2	Alternative Transportation—Bicycle Storage and Changing Rooms	1
	-		Credit 4.3	Alternative Transportation—Low-Emitting and Fuel-Efficient Vehicles	3
			Credit 4.4	Alternative Transportation—Parking Capacity	2
	*,		Credit 5.1	Site Development—Protect or Restore Habitat	1
	1 4		Credit 5.2	Site Development—Maximize Open Space	1
- 1			Credit 6.1	Stormwater Design—Quantity Control	1
, ,			Credit 6.2	Stormwater Design—Quality Control	1
1, 1			Credit 7.1	Heat Island Effect-Non-roof	1
			Credit 7.2	Heat Island Effect—Roof	1
			Credit 8	Light Pollution Reduction	1
			Waton	Principal Decision Decision	40
0	0	0	water	Efficiency Possible Points:	10
Υ	1		Prereg 1	Water Use Reduction—20% Reduction	
		1	Credit 1	Water Efficient Landscaping	2 to 4
	1		J	Reduce by 50%	2
				No Potable Water Use or Irrigation	4
		1 2	Credit 2	Innovative Wastewater Technologies	2
			Credit 3	Water Use Reduction	2 to 4
			ı	Reduce by 30%	2
				Reduce by 35%	3
				Reduce by 40%	4

0 0 0 Ene	rgy and Atmosphere Possible Points:	35
Y Prereq	Fundamental Commissioning of Building Energy Systems	
Y Prereq	Minimum Energy Performance	
Y Prereq	Fundamental Refrigerant Management	
Credit	Optimize Energy Performance	1 to 19
	Improve by 12% for New Buildings or 8% for Existing Building Renovations	1
	Improve by 14% for New Buildings or 10% for Existing Building Renovations	2
	Improve by 16% for New Buildings or 12% for Existing Building Renovations	3
	Improve by 18% for New Buildings or 14% for Existing Building Renovations	4
	Improve by 20% for New Buildings or 16% for Existing Building Renovations	5
	Improve by 22% for New Buildings or 18% for Existing Building Renovations	6
	Improve by 24% for New Buildings or 20% for Existing Building Renovations	7
	Improve by 26% for New Buildings or 22% for Existing Building Renovations	8
	Improve by 28% for New Buildings or 24% for Existing Building Renovations	9
	Improve by 30% for New Buildings or 26% for Existing Building Renovations	10
	Improve by 32% for New Buildings or 28% for Existing Building Renovations	11
	Improve by 34% for New Buildings or 30% for Existing Building Renovations	12
	Improve by 36% for New Buildings or 32% for Existing Building Renovations	13
	Improve by 38% for New Buildings or 34% for Existing Building Renovations	14
	Improve by 40% for New Buildings or 36% for Existing Building Renovations	15
	Improve by 42% for New Buildings or 38% for Existing Building Renovations	16
	Improve by 44% for New Buildings or 40% for Existing Building Renovations	17
	Improve by 46% for New Buildings or 42% for Existing Building Renovations	18
	Improve by 48%+ for New Buildings or 44%+ for Existing Building Renovations	19
Credit	On-Site Renewable Energy	1 to 7
	1% Renewable Energy	1
	3% Renewable Energy	2
	5% Renewable Energy	3
	7% Renewable Energy	4
	9% Renewable Energy	5
	11% Renewable Energy	6
	13% Renewable Energy	7
Credit	Enhanced Commissioning	2
Credit		2
Credit		3
Credit	Green Power	2

0	0	0	Mater	ials and Resources Possible Points:	14
Υ			Prereq 1	Storage and Collection of Recyclables	
			Credit 1.1	Building Reuse—Maintain Existing Walls, Floors, and Roof	1 to 3
	Larger contraction of	-		Reuse 55%	1
				Reuse 75%	2
				Reuse 95%	3
			Credit 1.2	Building Reuse—Maintain 50% of Interior Non-Structural Elements	1
			Credit 2	Construction Waste Management	1 to 2
			_	50% Recycled or Salvaged	1
				75% Recycled or Salvaged	2
			Credit 3	Materials Reuse	1 to 2
		LOGOMOUN	-	Reuse 5%	1
				Reuse 10%	2
	1.5		Credit 4	Recycled Content	1 to 2
				10% of Content	1
				20% of Content	2
			Credit 5	Regional Materials	1 to 2
			_	10% of Materials	1
				20% of Materials	2
11:			Credit 6	Rapidly Renewable Materials	1
			Credit 6	haptery there waste materials	•
			Credit 7	Certified Wood	1
			-	• •	1
0	0	0	Credit 7	• •	1 15
_	0	0	Credit 7	Certified Wood Environmental Quality Possible Points:	1 15
Y	0	0	Credit 7 Indoor Prereq 1	Certified Wood Environmental Quality Possible Points: Minimum Indoor Air Quality Performance	1
_	0	0	Indoor Prereq 1 Prereq 2	Certified Wood Environmental Quality Possible Points: Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control	
Y	0	0	Indoor Preireq 1 Preireq 2 Credit 1	Certified Wood Further Possible Points: Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring	1 15
Y	0	0	Prereq 1 Prereq 2 Credit 1 Credit 2	Certified Wood Environmental Quality Possible Points: Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation	
Y	0	0	Prereq 1 Prereq 2 Credit 1 Credit 2 Credit 3.1	Environmental Quality Possible Points: Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Plan—During Construction	
Y	0	0	Preireq 1 Preireq 2 Credit 1 Credit 2 Credit 3.1 Credit 3.2	Environmental Quality Possible Points: Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Plan—During Construction Construction IAQ Management Plan—Before Occupancy	
Y	0	0	Prereq 1 Prereq 2 Credit 1 Credit 2 Credit 3.1 Credit 4.1	Environmental Quality Possible Points: Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Plan—During Construction Construction IAQ Management Plan—Before Occupancy Low-Emitting Materials—Adhesives and Sealants	
Y	0	0	Prereq 1 Prereq 2 Credit 1 Credit 2 Credit 3.1 Credit 4.1 Credit 4.2	Environmental Quality Possible Points: Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Plan—During Construction Construction IAQ Management Plan—Before Occupancy Low-Emitting Materials—Adhesives and Sealants Low-Ernitting Materials—Paints and Coatings	
Y	0	0	Preireq 1 Preireq 2 Credit 1 Credit 2 Credit 3.1 Credit 3.2 Credit 4.1 Credit 4.2 Credit 4.3	Environmental Quality Possible Points: Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Plan—During Construction Construction IAQ Management Plan—Before Occupancy Low-Emitting Materials—Adhesives and Sealants Low-Emitting Materials—Flooring Systems	
Y	0	0	Prereq 1 Prereq 2 Credit 1 Credit 2 Credit 3.1 Credit 4.1 Credit 4.2 Credit 4.3 Credit 4.3	Environmental Quality Possible Points: Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Plan—During Construction Construction IAQ Management Plan—Before Occupancy Low-Emitting Materials—Adhesives and Sealants Low-Ernitting Materials—Flooring Systems Low-Emitting Materials—Flooring Systems Low-Emitting Materials—Composite Wood and Agrifiber Products	1 1 1 1 1 1 1
Y	0	0	Prereq 1 Prereq 2 Credit 1 Credit 2 Credit 3.1 Credit 4.1 Credit 4.2 Credit 4.3 Credit 4.4 Credit 5	Environmental Quality Possible Points: Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Plan—During Construction Construction IAQ Management Plan—Before Occupancy Low-Emitting Materials—Adhesives and Sealants Low-Ernitting Materials—Paints and Coatings Low-Emitting Materials—Flooring Systems Low-Emitting Materials—Composite Wood and Agrifiber Products Indoor Chemical and Pollutant Source Control	
Y	0	0	Preireq 1 Preireq 2 Credit 1 Credit 2 Credit 3.1 Credit 4.1 Credit 4.2 Credit 4.3 Credit 4.4 Credit 5 Credit 5	Environmental Quality Possible Points: Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Plan—During Construction Construction IAQ Management Plan—Before Occupancy Low-Emitting Materials—Adhesives and Sealants Low-Emitting Materials—Flooring Systems Low-Emitting Materials—Flooring Systems Low-Emitting Materials—Composite Wood and Agrifiber Products Indoor Chemical and Pollutant Source Control Controllability of Systems—Lighting	1 1 1 1 1 1 1
Y	0	0	Preireq 1 Preireq 2 Credit 1 Credit 3.1 Credit 3.2 Credit 4.1 Credit 4.2 Credit 4.3 Credit 4.4 Credit 5 Credit 6.1 Credit 6.2	Environmental Quality Possible Points: Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Plan—During Construction Construction IAQ Management Plan—Before Occupancy Low-Emitting Materials—Adhesives and Sealants Low-Emitting Materials—Paints and Coatings Low-Emitting Materials—Flooring Systems Low-Emitting Materials—Composite Wood and Agrifiber Products Indoor Chemical and Pollutant Source Control Controllability of Systems—Lighting Controllability of Systems—Thermal Comfort	1 1 1 1 1 1
Y	0	0	Prereq 1 Prereq 2 Credit 1 Credit 2 Credit 3.1 Credit 4.1 Credit 4.2 Credit 4.3 Credit 4.4 Credit 5 Credit 6.1 Credit 6.2 Credit 7.1	Environmental Quality Possible Points: Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Plan—During Construction Construction IAQ Management Plan—Before Occupancy Low-Emitting Materials—Adhesives and Sealants Low-Emitting Materials—Paints and Coatings Low-Emitting Materials—Flooring Systems Low-Emitting Materials—Composite Wood and Agrifiber Products Indoor Chemical and Pollutant Source Control Controllability of Systems—Lighting Controllability of Systems—Thermal Comfort Thermal Comfort—Design	1 1 1 1 1 1
Y	0	0	Prereq 1 Prereq 2 Credit 1 Credit 2 Credit 3.1 Credit 4.1 Credit 4.2 Credit 4.3 Credit 4.4 Credit 5 Credit 6.1 Credit 6.2 Credit 7.1 Credit 7.2	Environmental Quality Possible Points: Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Plan—During Construction Construction IAQ Management Plan—Before Occupancy Low-Emitting Materials—Adhesives and Sealants Low-Emitting Materials—Paints and Coatings Low-Emitting Materials—Flooring Systems Low-Emitting Materials—Composite Wood and Agrifiber Products Indoor Chemical and Pollutant Source Control Controllability of Systems—Lighting Controllability of Systems—Thermal Comfort Thermal Comfort—Design Thermal Comfort—Verification	1 1 1 1 1 1
Y	0	0	Preireq 1 Preireq 2 Credit 1 Credit 2 Credit 3.1 Credit 4.1 Credit 4.2 Credit 4.3 Credit 4.4 Credit 5 Credit 6.1 Credit 6.2 Credit 7.1 Credit 7.2 Credit 8.1	Environmental Quality Possible Points: Minimum Indoor Air Quality Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Plan—During Construction Construction IAQ Management Plan—Before Occupancy Low-Emitting Materials—Adhesives and Sealants Low-Emitting Materials—Paints and Coatings Low-Emitting Materials—Flooring Systems Low-Emitting Materials—Composite Wood and Agrifiber Products Indoor Chemical and Pollutant Source Control Controllability of Systems—Lighting Controllability of Systems—Thermal Comfort Thermal Comfort—Design	1 1 1 1 1 1

0	0	0	Innovation and Design Process Possible Points:	6
			Credit 1.1 Innovation in Design: Specific Title	1
			Credit 1.2 Innovation in Design: Specific Title	1
			Credit 1.3 Innovation in Design: Specific Title	1
	3-17-3	. 14-	Credit 1.4 Innovation in Design: Specific Title	1
		** **	Credit 1.5 Innovation in Design: Specific Title	1
			Credit 2 LEED Accredited Professional	1
0	0	0	Regional Priority Credits Possible Points:	4
			Credit 1.1 Regional Priority: Specific Credit	1
			Credit 1.2 Regional Priority: Specific Credit	1
1	94.00		Credit 1.3 Regional Priority: Specific Credit	1
			Credit 1.4 Regional Priority: Specific Credit	1
0	0	0	Total Possible Points:	110

ATTACHMENT D: LEED Score Cards continued

Credit 1 S Credit 2 D Credit 3.1 A Credit 3.2 A Credit 3.3 A Water E	Checklist Juble Sites Juble Sites Juble Selection Development Density and Community Connect Alternative Transportation—Public Transporta Juble Transportation—Bicycle Storage are Alternative Transportation—Parking Availability Michigan Storage Transportatio	tion Access nd Changing Rooms	1 to 5 6 6 2 2	Y N ?	Prereq 1 Prereq 2 Credit 1 Credit 2 Credit 3.1	Environmental Quality Minimum IAQ Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Plan—During Cr	Possible Points:	17 1 1
Credit 1 S Credit 2 D Credit 3.1 A Credit 3.2 A Credit 3.3 A Water E	itie Selection Development Density and Community Connect Alternative Transportation—Public Transporta Alternative Transportation—Bicycle Storage ar Alternative Transportation—Parking Availabilit fficiency Water Use Reduction—20% Reduction	tivity ition Access nd Changing Rooms ty	1 to 5 6 6 2 2	Y	Prereq 1 Prereq 2 Credit 1 Credit 2 Credit 3.1	Minimum IAQ Performance Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation		17
Credit 1 S Credit 2 C Credit 3.1 A Credit 3.2 A Credit 3.3 A Water E	Development Density and Community Connect Alternative Transportation—Public Transporta Alternative Transportation—Bicycle Storage ar Alternative Transportation—Parking Availabilit fficiency Water Use Reduction—20% Reduction	ntion Access and Changing Rooms ty	6 6 2 2	Y	Prereq 2 Credit 1 Credit 2 Credit 3.1	Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation		1
Credit 2 C Credit 3.1 A Credit 3.2 A Credit 3.3 A	Development Density and Community Connect Alternative Transportation—Public Transporta Alternative Transportation—Bicycle Storage ar Alternative Transportation—Parking Availabilit fficiency Water Use Reduction—20% Reduction	ntion Access and Changing Rooms ty	6 6 2 2	and the contract of the contra	Prereq 2 Credit 1 Credit 2 Credit 3.1	Environmental Tobacco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilation		1
Credit 3.1 A Credit 3.2 A Credit 3.3 A Water E	Mternative Transportation—Public Transporta Alternative Transportation—Bicycle Storage an Alternative Transportation—Parking Availabilit fficiency Water Use Reduction—20% Reduction	ntion Access and Changing Rooms ty	6 2 2	Y	Credit 1 Credit 2 Credit 3.1	Outdoor Air Delivery Monitoring Increased Ventilation		1
Credit 3.2 A	Alternative Transportation—Bicycle Storage ar Alternative Transportation—Parking Availabili fficiency Water Use Reduction—20% Reduction	nd Changing Rooms ty	2		Credit 2 Credit 3.1	Increased Ventilation		1
Credit 3.3 A	Alternative Transportation—Parking Availabilit fficiency Water Use Reduction—20% Reduction	ty	2		Credit 3.1			1
Water E	fficiency Water Use Reduction-20% Reduction	•	_		m I	Construction IAO Management Plan-During Co		
	Water Use Reduction—20% Reduction	Possible Points:	11		Credit 3.2	construction and management real-paints of	onstruction	1
	Water Use Reduction—20% Reduction	Possible Points:	11			Construction IAQ Management Plan-Before O	ccupancy	1
Prereg 1 V					Credit 4.1	Low-Emitting Materials—Adhesives and Sealar	nts	1
Prereg 1 V					Credit 4.2	Low-Emitting Materials—Paints and Coatings		1
	Water Use Reduction					Low-Emitting Materials—Flooring Systems		1
Credit 1 V			6 to 11		Credit 4.4	Low-Emitting Materials-Composite Wood and	Agrifiber Products	1
					Credit 4.5	Low-Emitting Materials-Systems Furniture an	d Seating	1
Energy a	and Atmosphere	Possible Points:	37		Credit 5	Indoor Chemical & Pollutant Source Control		1
	•				Credit 6.1	Controllability of Systems—Lighting		1
Prereg t F	Fundamental Commissioning of Building Energ	y Systems			Credit 6.2	Controllability of Systems-Thermal Comfort		1
Prereq 2 N	Ainimum Energy Performance				Credit 7.1	Thermal Comfort-Design		1
Prereq 3	fundamental Refrigerant Management				Credit 7.2	Thermal Comfort-Verification		1
Credit 1.1 C	Optimize Energy Performance—Lighting Power	г	1 to 5		Credit 8.1	Daylight and Views-Daylight		1 to
Credit 1.2	Optimize Energy Performance—Lighting Contri	ols	1 to 3		Credit 8.2	Daylight and Views-Views for Seated Spaces		1
Credit 1.3 C	Optimize Energy Performance—HVAC		5 to 10	-	_			
Credit 1.4	Optimize Energy Performance—Equipment and	1 Appliances	1 to 4		Innova	tion and Design Process	Possible Points:	6
Credit 2 E	Inhanced Commissioning		5					
Credit 3 N	Aeasurement and Verification		2 to 5		Credit 1.1	Innovation in Design: Specific Title		1
Credit 4	Green Power		5		Credit 1.2	Innovation in Design: Specific Title		1
		********			Credit 1.3	Innovation in Design: Specific Title		1
Material	s and Resources	Possible Points:	.14	88.	Credit 1.4	Innovation in Design: Specific Title		1
		% × 7	8 8	818	Condit 1.5	Innovation in Design: Specific Title		1
Prereq 1 S	torage and Collection of Recyclables	× × × × × ×	¥ #	38	Gredit Z	LEED Accredited Professional		1
Credit 1.1 T	enant Space Long-Term Commitment	8 8 8 C	1 &	000000000	-000000000	····		
Credit 1.2	Building Reuse	# W W	1 to 💯	edecensor.	Region	al Priority Credits	Possible Points:	4
Credit 2	Construction Waste Management	# W W	1 to 2	80.	88			
Credit 3.1 N	Materials Reuse	500	1 to 2	- COC	Credit 1.1	Regional Priority: Specific Credit		1
Credit 3.2 A	Naterials Reuse—Furniture and Furnishings		1		Credit 1.2	Regional Priority: Specific Credit		1
Credit 4	Recycled Content		1 to 2		Credit 1.3	Regional Priority: Specific Credit		1
Credit 5	Regional Materials		1 to 2		Credit 1.4	Regional Priority: Specific Credit		1
Credit 6	Rapidly Renewable Materials		1	Name and the control for control	-d			
Credit 7	ertified Wood		1		Total		Possible Points:	11

ATTACHMENT D: LEED Score Cards continued

LEED for Homes Project Checklist

	for Homes		Builder Name:									
			Project Team	Leader:								
			Home Address	s (Street/City	/State):							
Project Desci	ription		t				Adjusted	d Certific	ation Thre	sholds		
Buildi	ing Type:		Project type:				Ce	ertified:	45.0	Gold:	75.0	
# of Be	edrooms: 0		Floor Area	0				Silver	60.0	Platinum;	90.0	
ERCORD ROSE			100000000000000000000000000000000000000			C 100 Page	*357778B	No.		S ATTENDED AT OF SER		
	ject Point Total	Elect 6			Final Cre		5000 u 9000 u 90				FO	
250000000000000000000000000000000000000	elim: 0 + 0 maybe pts	Final: 0			ID:			0		n: 0	EQ.	
A 12 SECTION OF THE 22 SECTION	tification Level		m-1		LL:		WE:			R: 0 Prelim. OR Final	AE	: 0
*************	elim: Not Certified	Final Not Cert	acquisition seture 2			Will 12	count Enre	SHOLDS	NOT MET 707	Presm. On Pinal	Reting	
Da	te Most Recensy Updated		Deliver in the	Updated by:								
					Max Pts.		ninary R	•				Project
æ In	dicates that an Accountabili	ty Form is required.			Available	Y/Pts	Maybe	No				Points
Innovation	& Design Process (I	D) (Minimum 0 ID P	oints Required)		Max: 11	Y:0	M:0			Notes		Final: 0
and the second s	Project Planning											
1.1	Preliminary Rating				Prereq.							
Marrie of Land	Target performance tier.	L]									
1.2	Integrated Project Team ())		1	0	0					0
	a) Individuals or organization b) All team members involved				c) Regular m	eetings he	id with proje	ct team				
1.3	Professional Credentialed		for Homes	100011000000000000000000000000000000000	10000	0	ø	SERVICE SERVIC	please	see ID 01-06 for	details	0
	Design Charrette				1	0	Û					0
	Building Orientation for So	lar Design (meet all of	the following)		1	0	n					0
10000	a) Glazing area on north/sout	00000000000.	200000000000	86.	ATTEN At least 45	600000	south facin	d roof area	oriented for	solar applications		ephophic al Autoco
	b) East-west axis is within 15	900 7000	88	X	a) 90% of so	995			202			
2. Quality Ma	nagement for Durability	* *	80000000	// //	- WA	Williams	38888	- 8	Š.			
2.1	Durability Planning (meet	all of the following)	- W	. 86	Proving.	8			8			
	a) Durability evaluation comp	000Cmmmmmm7000007	× '	% #	d) Durability	200		. 5	00			
	b) Strategies developed to ad		502	988886	e) Duriblity	nieläisures	listed in dur	ability insp	ection checklis	t		
22	c) Moisture control measures Durability Management (n		2]	0.000.000.000	Prereq.	described in	ST OFFICE AND	SEPTEMBER 1	DOMESTIC OF THE PARTY OF THE PA	UT 11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	SUBSECULO S	\$360 TO THE LOCAL
110000	Builder has a quality manager		<i>y</i>		Builder condi	ucted inspi	ection using	durability i	nspection che	cklist		AND AND ASSESSED.
2.3	Third-Party Durability Mar	agement Verification			3	0	0	ENERG	US BEELE			0
3. Innovative	or Regional Design											
A-11700 A11700 A11700	✓ Innovation 1 (ruling #):				1	0	0	0.00		CANAL COMPANY	04000400200	0
3.2					1	0	0					0
3.3					1	0	0			section of the section		0
3.4	Innovation 4 (ruling #):				1	0	0					0
Location &	Linkages (LL) (Minis	num 0 LL Points Requi	red)		Max: 10	Y:0	M:0			Notes		Final: 0
	leighborhood Developmen											1 117-11 0
	LEED for Neighborhood D				10	0	0	THE REAL PROPERTY.				0
2. Site Select												.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Site Selection (meet al	of the following)			2	0	0					0
	a) Built above 100-year flood				d) Not built o							
	b) Not built on habitat for the		es		e) Not built (on land wit	th prime soil	s, unique s	oils, or soils of	state significance		
	C) Not built within 100 ft of w	race, endoung Websiks										
3. Preferred L												
	Edge Development				1	0	U					0
OR 3.2	STATE OF THE PARTY				2	0	STOR MOSSO					0
	Previously Developed				1	0	0					0
4. Infrastruct					1	^	0					0
77507 107	Existing Infrastructure	10000 MONTH 62 0 100 1 7 1 0		100 N 0000.00 1000	y y y y y y y y y y y y y y y y y y y	0			onnicanini ani			, V
	y Resources / Transit Basic Community Resour	res / Transit (ment one	of the following)	18000 to 1500.000 ft	1	0	0	5150000			territore e	0
3.1	a) Within 1/4 mile of 4 basic	CONTRACTOR CONTRACTOR ASSESSMENT			C) Within 1/2			s providing	30 rides ner	weekdav	CARLES CONTRACTOR	
	b) Within 1/2 mile of 7 basic					- W U		- provinces	, and a second point of			
OR 5.2	Extensive Community Res		one of the follow	ring)	2	0	0					0
	a) Within 1/4 mile of 7 basic				c) Within 1/2	mile of tr	ansit service	s providing	60 rides per	weekday		
	b) Within 1/2 mile of 11 basic											
OR 5.3	Outstanding Community F	Resources / Transit (me	et one of the foll	owing)	3	0	G					0
	a) Within 1/4 mile of 11 basic	community resources			c) Within 1/2	mile of tr	ansit service	s providing	125 rides per	weekday		
	b) Within 1/2 mile of 14 basic	community resources										
6. Access to												
6	Access to Open Space				1	0	10					0

Sustainable Sites (SS) (Minimum 5 SS Points Required)	Max; 22 Y:0 M:0 Notes Final: 0
1. Site Stewardship	
1.1 Erosion Controls During Construction (meet all of the following)	Prereq.
Stockpile and protect disturbed topsoil from erosion. b) Control the path and velocity of runoff with silt tenong or equivalent.	d) Provide swales to divert surface water from hillsde: e) Use tiers, erosion blankets, compost blankets, etc. on sloped areas.
c) Protect sewer inlets, streams, and lakes with straw bales, silt fencing, etc.	and only a second and a second
1.2 Minimize Disturbed Area of Site (meet the appropriate requirements)	1 0 0
Where the site is not previously developed, meet all the following:	
a) Develop tree / plant preservation plan with "no-disturbance" zones	
b) Leave 40% of buildable let area, not including area under roof, undisturbed	
OR Where the site is previously developed, meet all the following C Develop tree / plant preservation plan with "no-disturbance" zones AND	
Rehabilitate lot; undo soil compaction and remove invasive plants AND	
Meet the requirements of SS 2.2	
OR d) Build on a lot of 1/7 acre or less, or 7 units per acre.	
Landscaping 21	Proreg.
2.2	2 0 0
a) Any turf must be drought-tolerant.	d) Add mulch or soil amendments as appropriate.
b) Do not use turf in densely shaded areas.	e) All compacted soil must be tilled to at least 6 inches.
c) Do not use turf in areas with slope of 25%	
AND/OR 2.3 × Limit Conventional Turf	3 0 0
Percentage of designed landscape softscape area that is turf	
AND/OR 2.4 / Drought-Tolerant Plants	2 0 0
Percentage of installed plants that are drought-tolerant	
OR 2.5 × Reduce Overall Irrigation Demand by at Least 20%	6 0 0
Percentage reduction in estimated irrigation water demand	(calculate)
3. Reduce Local Heat Island Effects	
3 ✓ Reduce Local Heat Island Effects (meet one of the following)	1 0 0
as Locate trees / plantings to provide shade for 50% of hardscapes	b) Install light-colored, high-albedo materials for 50% of hardscapes
4. Surface Water Management 4.1 Permeable Lot	4 0 0 0
vegetative landscape	/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
permeable paving	A
impermeable surfaces directed to infiltration features	/
other impermeable surfaces (areas not counted towards credit)	# % B B
4.2 Permanent Erosion Controls (meet one of the following)	1 0 0
a) For portions of lot on steep slope, use terracing and retaining waits	b) Plant trees, shrubs, or groundcover
4.3 Management of Runoff from Roof (meet any, see Rating System for pts)	2 0 0
a) Install permanent stormwater controls to manage runoff from the home	C) Install vegetated roof to cover 100% of roof area
☐ b) Install vegetated roof to cover 50% of roof area	d) Have lot designed by professional to manage runoff from home on-site
Nontoxic Pest Control Pest Control Alternatives (meet any of the following, 1/2 pt each)	2 0 0
a) Keep all exterior wood at least 12" above soil	e) In 'moderate' to 'very heavy' termite risk areas:
is) Seal external cracks, joints, etc. with caulking and install pest-proof screens	(i) Treat all collulosic material with borate product to 3' above foundation (iii) Install sand or distomaceous earth barrier
c) Include no wood-to-concrete connections, or separate connectors with dividers	ii) Install steel mesh barrier termite control system
d) Install landscaping so mature plants are 24" from home.	iv) Install non-toxic termite bait system
	v) Use noncellulosic wall structure vi) Use solid concrete foundation walls or pest-proof masonry wall design
6. Compact Development	and a fine from more and an amount of the first fine for the second of t
6.1 Moderate Density	2 0 0
# of total units on the lot lot size (acres)	N/A density (units/acre)
OR 6.2 High Density	3 0 0
OR 6.3 Very High Density	4 0 0
Water Efficiency (WE) (Minimum 3 WE Points Required)	Max: 15 Y:0 M:0 Notes Final: 0
1. Water Reuse	
1.1 Rainwater Harvesting System	4 0 0
Percentage of roof area used for harvesting Application	
AND/OR 1.2 Graywater Reuse System	1 0 0
OR 1.3 Use of Municipal Recycled Water System	3 0 0
2. Irrigation System	
2.1 High-Efficiency Irrigation System (meet any of the following, 1 pt each)	3 0 0
a) Irrigation system designed by EPA Water Sense certified professional	g) Install timer or controller for each watering zone
b) Irrigation system with head-to-head coverage C) Install central shut-off valve	n) Install pressure-regulating devices iii) High-efficiency nozzles with distribution uniformity of at least 0.70.
d) Install submeter for the irrigation system)) Check valves in heads
O Use drip irrigation for 50% of planting beds Of Create separate zones for each type of bedding	k) Install moisture sensor or rain delay controller
ANID/OR 2.2 Third-party Inspection	1 0 0
OR 2.3 at Reduce Overall Irrigation Demand by at Least 45%	4 0 0
	(calculate)

Toilets a Toilet	re dual-flush; seet the EPA v 0 0 flow rate for a flow rate	Water Sense specification ### Bill showers ≤ 1.75 gam per 52a ### Bill tolets is ≤ 1.10 gef ### Bill tolets is ≤ 1.10 gef #### Bill tolets is ≤ 1.10 gef #### Bill tolets is ≤ 1.10 gef ###################################	Notes stential equation Notes	o Final: 0 o o Final: 0 o o o o
Toilets a Toilet	re dual-flush; seet the EPA v 0 0 flow rate for a flow rate	OR Water Sense specification ### OR Sense specification ### OR Sense specification ### OR Sense specification #### OR Sense specification #### OR Sense specification ###################################	Notes Stential equation Notes	0 0 0 Final: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Toilets n 6	Officer rate for a flow rate flow	Water Sense specification ### Bill showers ≤ 1.75 gam per 52a ### Bill tolets is ≤ 1.10 gef ### Bill tolets is ≤ 1.10 gef #### Bill tolets is ≤ 1.10 gef #### Bill tolets is ≤ 1.10 gef ###################################	Notes Stential equation Notes	0 0 0 Final: 0 0 0
6 b) Average (c) Average (d)	O flow rate for a low rate for all Y:O O design of core O list and lumbo O special special great great special great grea	Il showers ≤ 1.75 gpm per size il tokets is ≤ 1.10 gpf M:O Overbional system Overbi	Notes Stential equation Notes	0 0 0 Final:
C) Average (Max: 38	Packet than process of the packet than process of the packet than	## It toolets is ≤ 1.10 gpf ###:0 ###:0 ###:0 ####:0 #########	Notes Stential equation Notes	0 0 0 Final:
C) Average (Max: 38	Packet than process of the packet than process of the packet than	## It toolets is ≤ 1.10 gpf ###:0 ###:0 ###:0 ####:0 #########	Notes Stential equation Notes	0 0 0 Final:
Prereq. 34 2	O design of core of co	overtional system overtional sy	Notes Notes	0 0 0 Final:
2 c) Compact 1 Prereq. 1 c) Use refng Max: 16 Prereq. 1 Detoiled cut 3 Stud species Ceiling seep Floor joot as Roof raflect Two of thee	o o o o o o o cerants that co Y:0 o list and lumbor o o o o o o o o o o o o	mpkes with global warming poments. M:D or order corresponding to fram Or order to the start of the start o	Notes Notes	0 0 Final:
2 c) Compact 1 Prereq. 1 c) Use refng Max: 16 Prereq. 1 Detoiled cut 3 Stud species Ceiling seep Floor joot as Roof raflect Two of thee	o o o o o o o cerants that co Y:0 o list and lumbor o o o o o o o o o o o o	mpkes with global warming poments. M:D or order corresponding to fram Or order to the start of the start o	Notes Notes	0 0 Final:
2 c) Compact 1 Prersq. 1 c) Use refrig Max: 16 Prersq. 1 Detoired cut 3 Stud species Ceiling isses Floor jook of Roof rafter Two of thee	o o o o o o o cerants that co Y:0 o list and lumbor o o o o o o o o o o o o	mpkes with global warming poments. M:D or order corresponding to fram Or order to the start of the start o	Notes Notes	0 0 Final:
### Prereq. 1	o o o o o o o cerants that co Y:0 o list and lumbor o o o o o o o o o o o o	mpkes with global warming poments. M:D or order corresponding to fram Or order to the start of the start o	Notes Notes	0 Final: 0 0
### Prereq. 1	o o o o o o o cerants that co Y:0 o list and lumbor o o o o o o o o o o o o	mpkes with global warming poments. M:D or order corresponding to fram Or order to the start of the start o	Notes Notes	0 Final:
### Prereq. 1	o o o o o o o cerants that co Y:0 o list and lumbor o o o o o o o o o o o o	mpkes with global warming poments. M:D or order corresponding to fram Or order to the start of the start o	Notes Notes	0 Final: 0 0
### Prereq. 1	0 0 errants that co Y:0 0 0 list and lumbor 0 cacada than specing greater pooring greater	mpkes with global warming poments. M:D or order corresponding to fram Or order to the start of the start o	Notes Notes	o Final: 0 0
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### Detailed cut C) Use refing Max: 16 Prema.	O perants that co	mpkes with global warming po M:D 0 0 0 0 refore corresponding to from 0 0 of dricodite than 16" on college or than 16" on college or than 16" on college or than 16" on college	Notes Notes	o Final:
### Detailed cut C) Use refing Max: 16 Prema.	Y:0 O Iist and lumbo O received them specing greater paging greater	mpkes with global warming po M:D 0 0 0 0 refore corresponding to from 0 0 of dricodite than 16" on college or than 16" on college or than 16" on college or than 16" on college	Notes Notes	0
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c) Use refing Max: 16 Prering 1	Y:0 O Iist and lumbo O received them specing greater paging greater	mpkes with global warming po M:D 0 0 0 0 refore corresponding to from 0 0 of dricodite than 16" on college or than 16" on college or than 16" on college or than 16" on college	Notes Notes	0
Max: 16 Prerse. 1 1 1 Detored cut 3 Stud spelch Celling size Place jout 4 Roof rafter: Two of there	Y:0 0 0 list and lumbe 0 consider their	M:D Or order corresponding to from Or order to the 16° on context then 16° on context or than 16° on context or than 16° on context	Notes Notes	0
Prerse. 1 1 1 Detared cut 3 Stud spainh Place jout a Roof rafter: Two of there	0 0 list and lumbs 0 scotter their spacing greater pacing greater poors grotter ollowing: Size	O O O O O O O O O O O O O O O O O O O	sing plans or scopes	0
1 1 1 1 1 1 1 1 1 3 1 Stud spainting since in the property of the control of the	0 0 list and lumbs 0 scotter their spacing greater pacing greater poors grotter ollowing: Size	O O O O O O O O O O O O O O O O O O O		0
1 1 1 1 1 1 1 1 1 3 1 Stud spainting since in the property of the control of the	list and lumbs 0 Parester then spacing greater pacing greater pacing street ollowing: Size	26 on center than 16' on center than 16' on center or than 16' on senter		0
3 Stud spacing Celling sists Ploor jout 4 Roof rafter) Two of the	list and lumbs 0 Parester then spacing greater pacing greater pacing street ollowing: Size	26 on center than 16' on center than 16' on center or than 16' on senter		0
3 Stud spacing Celling sists Ploor jout 4 Roof rafter) Two of the	list and lumbs 0 Parester then spacing greater pacing greater pacing street ollowing: Size	26 on center than 16' on center than 16' on center or than 16' on senter		
3 Stud spacing Celling sists Ploor jout 4 Roof rafter) Two of the	o received them spacing greater pacing greater pacing greater pacing greater ollowing: Size	26 on center than 16' on center than 16' on center or than 16' on senter		0
Stud spabilit Ceiling jujus Floor jobt of Roof rafters Two of boot	spacing greater pacing greater pacing greater pacing greater ollowing: Size	26" of center or than 16" on center than 16" on center or than 16" on senter	Dling; drywall clips, 2-shud corners	0
Celling jaice Place jook a Roof rafters Two of the	spacing greater pacing greater poors grode ollowing: Size	er than 16" on center then 16" on center or than 16" on scotter	Sking; drywall Clips; Z-Stud corners	
☐ Floor joet of ☐ Roof raffer; ☐ Two of there	pacing greater pacing greater ollowing: Size	than 16" on center or than 16" on center	king; dryvall clips; Z-stud corners	
Roof rafter: Two of the f	poors groupe ollowing: Size	r than 16" on Senter	oking; drywall clips; 2-stud corners	
Of the d	ollowing: Size	2000	king; drywall clips; Z-stud corners	
4				
□ b) Modular,	0	0 8		0
L) u) Producti,	neafabricated	material SS		
	ja erauritaties	CONTROL OF TOWN		
Prereq.				
[7p) No tropic	ni wood instali	ed (exceptions for FSC-certific	ed or reclaimed wood!	411111111111111111111111111111111111111
8	0	0		0
	(b) I	Low emission	(c) Local production	
	MERCE COLUMN			
	obstant realization	-	ğ	
		90% hard flooring		
NAME OF STREET				
Control of the Control of the Control	and the same			
			Ö	
COLUMN TAXABLE				
- Colonia Paris Colonia	account to a con-			
- Control of the Cont				
	[type:		
	THE RESERVE OF THE PERSON NAMED IN			
TAIL 5 S.		type:		
Prereq.	estruments			OWNSCHOOL
	t aversion in	OF TOP CONSTRUCTION WASTE		
-1 Securitari	meetry chile			
3	0	0		0
3	0	0		0
3	0	0		0
		Prenq.		

Indoor Env	rironmental Quality (EQ) (Minimum 6 E	Q Points Required)	Max: 21	Y:0	M:0		Notes	Final: 0
1	TAR with Indoor Air Package ENERGY STAR with Indoor Air Package		13	0	0			0
2. Combustic	n Venting							
1	Basic Combustion Venting Measures (meet all	of the following)	Prereq.					
	a) no unvented combustion appliances					ent designed with closed co		
	b) carbon monoxide monitors on each floor					pment has power-vented of		
	C) no fireplace installed, OR all fireplaces and woodstoves have doors					ipment located in detached quipment with combustion	or open-air facility: OR	
2.2	Enhanced Combustion Venting Measures (med	et one of the following)	2	O Valgr-	eaung e	dnibuseur anns combresion	AND THE RESERVE OF THE PARTY OF	0
	1977 - 19	Better practice (1 pt)	and the same of th	•	00.076499	practice (2 pts)		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					t elso meet Better Pra	cticej	
	None	_			. [granted automatically		
	Masonry wood-burning fireplace Factory-built wood-burning fireplace	masonry heater listed by testing lab and meets	EDA standards		250,000	back-draft potential to back-draft potential to		
İ	Woodstove and fireplace insert	listed by testing lab and meets				back-draft potential to		
	Natural gas, propane, or alcohol stove Pellet stove	☐ listed, power- or direct-vented, ☐ EPA certified or neets safety re				electronic pilot power- or direct-venti		
2 11-1-1		Cry certifies or viceta select in	adolle (Hotels			1 power- or direct-venio	mg	
3. Moisture C		na)	1	0	0			0
	a) Additional dehumidification system	*97.				d with additional dehumidi	fication mode	Marcon Control of the State of
4. Outdoor A			C) a) colda (14)	-C Jyacon	Consuppe	C Well designates designates	ELECTIVISCE .	
		f the following)	Prereq.					
80,000	a) Qualifies under ASHRAE Std. 62.2-2007 climate exer		C) Intermitten	t ventilatio	gris		to the second se	
	b) Continuous ventilation		d) Passive ven					
4.2	Enhanced Outdoor Air Ventilation (meet of	one of the following)	2	0	0			0
	a) In climates with ≤ 4,500 inhibitration degree days, inst	all active ventilation system	b) Install heat	recovery	system			
4.3	Third-Party Performance Testing		1	0	0			0
5. Local Exha								
6.1	Basic Local Exhaust (meet all of the follow		Preroq.					
	a) Bathroom and kitchen exhaust meets ASHRAE Std. 6 b) Fans and ducts designed and installed to ASHRAE St	and the second s	d) ENERGY ST					
6.2	Enhanced Local Exhaust (meet one of the folio		1 1	O O	a cathros	om exhauss rans		0
	a) Occupancy sensor	meig/	C) Automatic t		and the same			1000 CO. C.
	b) Automatic humidistat ogistraties	000000000000000000000000000000000000000	d) Continuous					
5.3	Third-Party Performance Testing	8	1 188	0	0	100		0
6. Distribution	n of Space Heating and Cooling	8 <i>M</i>	& <u>*</u>			- 1		
	Room-by-Room Load Calculations	Marine Marine	Prerog.	944999		8		
6.2	Return Air Flow / Room-try-Room Controls (me	of one of the (allowing)	- 1 S	0	0			0
	A. Forced-Air Systems	8 % <i>8</i>	B. Nonducted			100		
1	a) Return air opening of 1 so, with per tim of supply	66 906,300	Plaw control v	alves on e	every rad	lator 100		
1100	b) Limited pressure differential between closed room an							
6.3	Third-Party Performance Test / Multiple Zones A. Forced-Air Systems	(meet one or trie tollowing)	B. Nonducted	0 HVAC	System	ACTES CONTRACTOR CONTRACTOR		0
i	Have supply air flow rates in each room tested and cont	firmed				with independent thermos	tat contro	
7. Air Filterin	9		***************************************				//	
7.1	Good Filters		Prereq.					
7.2	Better Filters		1	0	0			0
OR 7.3	Best Filters		2	0	Ü			0
8 Contamina	ent Control							
	Indoor Contaminant Control during Const	ruction	1	0	0			0
8.2	Indoor Contaminant Control (meet any of the fo	ollowing, 1 pt each)	2	0	-O		Harris State (1975)	0
-	a) Design and install permanent walk-off mats at each of		C) Install cents	ral vacuum	n system	with exhaust to ourdoors	Rose residence de la companya del companya de la companya del companya de la comp	
	b) Design shoe removal and storage space near primare							
8.3	e Preoccupancy Flush		1	0	0			0
9. Radon Pro	tection							
	Radon-Resistant Construction in High-Ris	sk Areas	Prereq.					
9.2	Radon-Resistant Construction in Moderat	e-Risk Areas	1	0	0			0
10 Garage P	ollutant Protection							
	No HVAC in Garage		Prereq.	*15774				(4.70)
	Minimize Pollutants from Garage (meet all of th	ne following)	2	0	a			0
	a) In conditioned spaces above garage:		b) in condition	ned spac	ces nex	d to garage		-
	Seal all penetrations and connecting floor and ceiling jo	ist bays	Weather-strip					
						oms that share a door with at the base of walls	garage	
AND/OR 10.3	Exhaust Fan in Garage (meet one of the follow	ing)	en perco	0	0 0000			0
AND ON TO.S	a) Fan runs continuously	. 197 December 1971	b) Fan designe	977	programore.	timer control		•
OR 10.4	Detached Garage or No Garage		3	0	D D			0
				V-2	35.5		No4-	
	& Education (AE) (Minimum 0 AE Point	s Required)	Max: 3	Y:0	M:0		Notes	Final: 0
	of the Homeowner or Tenant	following)	C					
1.1	≥ Basic Operations Training (meet both of the	rowwing)	Prereq.		2000.00			
100/20	a) Operations and training manual	ERRORCES DATA DE LA CONTRACTION DEL CONTRACTION DE LA CONTRACTION	b) One-hour v		th with o	ocupant(s)	ADDITION OF THE PARTY OF THE PA	
	∠ Enhanced Training		1	0	COLUMN TO SERVICE			U
1.3	Public Awareness (meet three of the following) a) Open nouse on at least four weekenss		1 C) Newspaper	0	The F	•		0
	b) Website about features and benefits of LEED home.					ect exterior of the home		
2 Education	of the Building Manager			2.03				
	∠ Education of the Building Manager (meet be)	oth of the following)	1	0	0			0
	a) Operations and training manual	***************************************	b) Ore-hour v	valkthroug	h with b	uilding manager		
L				-		-		

USGBC LEGAL DISCLAIMER

USGBC makes no warranty with respect to any LEED certified project, including any warranty of habitability, merchaniability, or fitness for a particular purpose. There are no warranties express or implied, written or oral, statutory or otherwise, with respect to the certifications provided by USGBC. By way of example only, and without limiting the broad scope of the foregoing, it is understood that LEED certification, whether at the Certified level or any other level, does not mean that the project is structurally sound or safe, constructed in accordance with applicable laws, regulations or codes, free of mold or mildew, free of volatile organic compounds or allegens, or free of soil gases including radon.

SIGNATURES BY RESPONSIBLE PARTI	ES		
By affixing my signature below, the undersigned does have been met for the indicated credits and will, if aud		for Homes requir	rements, as specified in the LEED for Homes Rating System.
Project Team Leader		Company	
Signature		Date	
	hereby declare and affirm to the USGBC that the require ting System, have been completed, and will provide the p		
Provider QAD		Company	
Signature		Date	
	hereby declare and affirm to the USGBC that the require ting System, have been completed, and will provide the p		
Green Rater		Company	
Signature		Date	
	hereby declare and affirm to the USGBC that the require ting System, have been completed, and will provide the p		
Green Rater		Company	
Signature		Date	



LEED for Homes Project Checklist Addendum: Prescriptive Approach for Energy and Atmosphere (EA) Credits

Points cannot be earned in both the Prescriptive (below) and the Performance paths of the EA section.		Max Pts. Available	Preliminary Rating Y/Pts Maybe No		Notes	Project Points	
t-sicrottz/file-feli-se		EA Points Required)	Max: 38	Y:0	M:0	Notes	Final: (
. Insulation							
2.1	Basic Insulation (meet both of the fi	ollowing)	Prereq.				
	a) Insulation meets A-value requirements		a) Insulation			cabons for installation	
2.2	Enhanced Insulation (meet both of	the following)	2	0	0		0
	a) Insulation exceeds R-value requiremen	ts of IECC by 5%	b) Insulation	meets HE	S Grade I specific	abons for installation	
3. Air Infiltrat			Manager and the Assessment	anti-pullment	Carl Services (1), Decription	Control of the Article St. Control of the St. Contr	
3.1	Reduced Envelope Leakage		Prereq.			I would be made to be provided as	
	Air leakage rate in ACH50	i					
3.2	Greatly Reduced Envelope Leakage	0	2	0	0		0
OR 3.3	Minimal Envelope Leakage		3	0	0 '		. 0
4. Windows							
4.1	Good Windows (meet all of the follows)	owing)	Prureq.				
	a) Windows and glass doors meet ENERG	Y STAR BOP window specifications			is \$ 3% of floor a		
ere en						ments for skylights	
	Enhanced Windows		2	0	0		0
OR 4.3	Exceptional Windows		. 3	0	. 0		0
	d Cooling Distribution System						
5,1	Reduced Distribution Losses (meet A. Forced-Air Systems	all of the following, as appropriate)	Prereq. B Nonducte	4 F V/VC	Suctome		
	a) Duct leakage of \$ 4.0 CFM at 25 Pasca	es per 100 sq.ft.				conditioned spaces	
	b) No ducts in exterior walls unless extra	insulation is added					
	C) At least R-6 insulation around ducts in	unconditioned spaces					
5.2		es (meet the following, as appropriate)	B. Nonducte	0	0	000000000	0
	A. Forced-Air Systems ☐ Duct leakage of ≤ 3.0 CFM at 25 Pascals	per thill so n				constituted envelope	
on the	Minimal Distribution Losses (meet	TOOL 500 500 500	97 VS	0	δ	THE SECTION OF THE PROPERTY OF	astrocketsmen - dee
UR	A. Forced-Air Systems	one of the tallowing, as appropriate)	B Nonducte				U
	a) Duct leakage of ≤ 1.0 CFM of 25 Pasca		Dutdoor res	d control t	o set distribution t	ents, based on outdoor terms	
	b) Air-handler and all ductwork is within o		- %	8		8	
	b) Install efficient healing AND cooling of	Type of cooling system				Type of heating system	E / COE)
E-100	TOTAL CONTROL STATE OF THE STAT	Cooling efficiency (SEER / EER)	Street St. Committee of the Committee of	stream to a tree	Activities and a second	Heating Efficiency (AFUE / HSF	
	High-Efficiency HVAC		2	0	0		0
	Very High Efficiency HVAC			0	0 .		0
7. Water Hea		Combine (month one of the fallentian)	2	0	0		0
***	a) Structured plumbing system	System (meet une di the following)	Control of the last of the las		conventional syste		A STATE OF THE PARTY OF THE PAR
	b) Central manifold distribution system		C) Compact	our gride	to read the equitor		
7.2	Pipe Insulation		1	0	0		0
7.3	Efficient Domestic Hot Water Equi	pment	3	0	0		0
		Type of DHW system					
	Efficiency	Solar: Percentage of annual DHW loa	ad				
8. Lighting		-					
	ENERGY STAR Lights	Shanning Lake Company Straff Shindy	Prereq.			ne cha se se substant disease	ne (Principle Inte
	The Control of the Co	following, see Rating System for pts)	1.5	0	0		0
389.101	a) Incoor lighting - 3 additional ENERG		b) Extenor I	ighting - m	otion sensor contr	rols or integrated PV	
OR 8.3	Advanced Lighting Package (meet		3	0	0		0
400.00	a) 60% of fixtures are ENERGY STAR for		□ b) 80% of l	amps are 8	NERGY STAR CPL	5	
9. Appliance	S	And the second s					
\$50,000 pt	High-Efficiency Appliances (meet a	any, see Rating System for pts)	2	0	0		. 0
	a) ENERGY STAR labeled refrigerator					ng 6.0 gallons per cycle or less	
	b) ENERGY STAR labeled ceiling fans in	living/family room and all bedrooms	a) ENERGY	STAR clott	nes washer		
9.2	Water-Efficiency Clothes Washer		1	0	Č.	The same state of the same sta	0
10. Renewat							
10	r Renewable Energy System		10	0	. 0		0.0
	Refere	nce electric load, kWh/yr (based on HER	S model)		Elec	tricity supplied by renewable system	i, kWh/yr
	0.0% Percentage of annual refe	erence electric load met by renewable sys	stem				
11. Resident	ial Refrigerant Management						
11.	Refrigerant Charge Test		Preraq.				
11.	Appropriate HVAC Refrigerants (n	neet one of the following)	1	0	0		0
	a) Use no refrigerants		c) Use refr	gerants th	it complies with gi	lobal warning potential equation	
	Use non-HCFC refrigerants						