

LEED for Homes Durability Evaluation Form (for prerequisite ID 2.1)

USGBC						
		Builder Name:	Jim Gramata (Owner/GC)			
		Project Team Leader:	Lisa Elkins, 2 Point Perspe	ective		
		Home Address (Street/City/State):	2056 N. Bissell Street, Chi	cago, IL		
Home						
	.			- :		
Building type:	-			Structure type:		
Project type:	Custom	# of bedrooms:	3	Exterior roofing:		
Number of stories:	3	Number of full bathrooms:		Garage:		
Site						
EPA Radon Zone:	2			Type of soil:	infill	
Terrain / topography:	flat, urban		Depth	of soil to bedrock:	50'	
Predominant landscaping:	side yard, plantii	ngs	Depth of ground wat	er below structure:	?	
Common regional pests:	rodents		Proximity t	o bodies of water?	>100'	
Other significant features:			Above FEMA 10	00-year floodplain?	yes	
Additional comments:						
Climate						
IECC 2004 Climate Zone:	5		Annual	rainfall (inches/yr):	35.8	
Heating degree days (HDD):	6630		Max annual	wind speed (mph):	10.4	
Cooling degree days (CDD):	702		Avg annual solar radia	ation (kWh/m²/day):	3.5	
Natural disaster risks:	hurricanes	earthquakes	□ wildfires			
	☑ tornados	⊡ floods	☑ blizzards			
Issues						
Issue Type	Risk	Level		Issue Type		Risk Level
Exterior water:	med	lium		Pests:		medium
Interior moisture:	med	lium		Heat loss:		medium
Air infiltration:	hi	gh	ι	Jltraviolet radiation:		low
		-				

Durability Inspection Checklist Template

(for prerequisite ID 2.1 & 2.2 and credit ID 2.3)

Builder Name:	Jim Gramata (Owner/GC)
Project Team Leader:	Lisa Elkins, 2 Point Perspective
Home Address:	2056 N. Bissell Street, Chicago, IL

For each section below, list durability strategies used to help mitigate the durability risks. Where necessary, add additional rows or remove strategies that are not relevant. Refer to the Example Durability Strategies page for sample strategies that may be applicable.

The project team must indicate where the strategy is included in the drawings, specification, or scopes of work, and the responsible project team member must sign-off that the durability strategies were incorporated into the home.

For ID 2.3, the Green Rater must initial that the strategies were verified in the home. A minimum of 18 total strategies, not including those already included as LEED for Homes prerequisites, must be included and verified for the credit to be awarded. These strategies should be focused on medium or high-risk areas.

Durability Strategies by Issue Type	Location in Drawings, Specs,		sponsible Party below)
	and/or Scopes of Work	Prerequisite ID 2.2 (Builder/trade)	Credit ID 2.3 (Green Rater)
Exterior Water / Moisture			
Provide drainage away from walls and foundations (perimeter footing drains and sump pump)	A300, P100		
Exterior surface of below grade walls damp-proofed or water-proofed	A300		
Vapor retarder (poly or rigid insulation) directly under slab	A100, A300		
Fully flash all window and door openings	A600		
Interior Water / Moisture			
LEED for Homes Prerequisites (remove if not applicable)			
Nonpaper-faced backer board used in all tubs, showers, and spa areas. (see ID 2.1)	A100, A601		
Water-resistant flooring in the kitchen, bathroom, laundry rooms, and spa areas. (see ID 2.1)	A100, A101, A601		
Water-resistant flooring within 3 feet of all exterior doors. (see ID 2.1)	A100, A101, A601		
Drain and drain pan installed for any tank water heaters in or over living spaces. (see ID 2.1)	P001, P100		
Drain and drain pan OR single-throw supply valve installed for any clothes washers in or over living spaces. (see ID 2.1)	P001, P101		
Conventional clothes dryers exhausted directly to outdoors; Condensing clothes dryer has drain and drain pan. (see ID 2.1)	M001, M101, P001, P101		
Whole house ventilation and local kitchen and bathroom exhaust systems that comply with ASHRAE Std. 62.2 (see EQ 4.1 / 5.1)	M001, M100, M101		
Install drains and drain pans to capture leaks under water heaters	P001, P100		
Properly design and install washer and water heater drain pans	P001, P100, P101		
Install no carpet in kitchens, bathrooms, or within 3' of exterior door (walk-off-mat is exception)	A100, A101, A601		
Tile sloped 1/8" per 1'-0" in all wet areas	A601		

Durability Inspection Checklist Template

(for prerequisite ID 2.1 & 2.2 and credit ID 2.3)

le l	uilder Name:	Jim Gramata (Owner/GC)		
F	roject Team Leader:	Lisa Elkins, 2 Point Persp	ective	
ŀ	ome Address:	2056 N. Bissell Street, Chi	cago, IL	
Air Infiltration				
LEED for Homes Prerequisites (remove if not app	licable)			
Thermal bypass inspection checklist passed (see EA 1.1 /	2.1)	G002		
Air sealing throughout (windows, doors, furring, penetrations	, etc.)	A600, M001, P001		
IC Airtight rated recessed lights in insulated ceilings		A130, A131		
Complete air barrier between attic and conditioned space ar	d all penetrations sealed	A100, A300		
Interstitial Condensation				
LEED for Homes Prerequisites (remove if not app	licable)			
All local exhaust systems vented directly to the outdoors. (M001, M100, M101		
Interstitial spaces are never used to supply or return force		M001, M100, M101		
Duct leakage to the outdoors limited to 6 cfm / 100 sq.ft.		M001		
Clothes dryers vented outdoors		M001, M101		
Insulate all cold (and hot) water pipes and avoid plumbing in	exterior walls	P001, P100, P101		
Air filter housings must be airtight to prevent bypass or leake		M001		
Do not install impermeable vapor barrier on interior side of w	-	A300		
Pests				
Rodent & corrosion proof screens		G002		
Heat Loss				
LEED for Homes Prerequisites (remove if not app	licable)			
Climate zone 4-8: Exposed concrete slab edge insulated.	(see EA 1.1 / 2.1)	A300		
Insulate exterior walls per IECC 2012		G001, G002, A100, A300		
Insulation break at foundation wall intersection and R-10 sla	b edge insulation	A300		
Ultraviolet Radiation				
			1	

Durability Inspection Checklist Template

(for prerequisite ID 2.1 & 2.2 and credit ID 2.3)

	Builder Name:	Jim Gramata (Owner/GC)		
	Project Team Leader:	Lisa Elkins, 2 Point Perspe	ctive	
	Home Address:	2056 N. Bissell Street, Chic	ago, IL	
Natural Disasters				
Other				
LEED for Homes Prerequisites (remove if n	ot applicable)			
Refrigerant charge test conducted. (see EA 11.1)		M001		
Builder Declaration for ID prerec	uisite 2.1 & 2.2			
· · ·	-	News		
I hereby declare and affirm to USGBC that I h		Name:		
completed the Durability Risk Evaluation Form measures into the design to adequately addre		Title:		
construction drawings and/or specifications ha	ave been updated accordingly, and the the	Signature:		
measures were verified to be completed appro	opriately.	Date:		
Green Rater Declaration for ID c	redit 2.3			
		Name:		
I hereby declare and affirm to USGBC that all				
as having been installed and/or incorporated i not an endorsement of the choice of durability				
validation of the quality or workmanship of the		Signature:		
		Date:		

TH BUILDING		LEED	for H	omes Pr	oject C	hecklist	
for Homes Bu	ilder Name:		Jim Gra	mata (Owner/	GC)		
LEED Pro	oject Team Leader:		Lisa Elk	tins, 2 Point P	erspective	•	
Но	me Address (Street/City/S	tate):	2056 N.	Bissell Stree	, Chicago,	IL	
Project Description				Adjusted Cer	tification T	hresholds	
Building Type: Single attached P	roject type: Custom			Certifie	d: 51.5	Gold:	81.5
# of Bedrooms: 3	Floor Area: 2,455			Silve	r: 66.5	Platinum:	96.5
Project Point Total		Final Cre	dit Cat	egory Poi	nt Totals		
Prelim: 82 + 25 maybe pts Final: 97.5		ID:		SS: 14.5		EA: 29	EQ: 15
Certification Level		LL:	10	WE: 8		MR: 11	AE: 1
Prelim: Gold Final: Platinum							
Date Most Recently Updated: 01.04.2016	Updated by:	Emily Tjeer	rdsma	_	_		
	opaaloa sy.	Max Pts.		ninary Rating			Project
		Available	Y/Pts	Maybe No			Points
Innovation & Design Process (ID) (Minimum 0 ID Point	ts Required)	Max: 11	Y:9	М:0		Notes	Final: 9
1. Integrated Project Planning							
1.1 Preliminary Rating		Prereq.	Y				Y
Target performance tier: Gold							
1.2 Integrated Project Team (meet all of the following)		1	1	0			1
oxdot a) Individuals or organizations with necessary capabilities	I	🔄 c) Regular me	etings held	I with project tean	ı		
\square b) All team members involved in various project phases							
1.3 Professional Credentialed with Respect to LEED for I	Homes	1	0	0 N			0
1.4 Design Charrette		1	1	0	10/15/201	3	1
1.5 Building Orientation for Solar Design (meet all of the	following)	1	0	0 N	not many	N/S windows	0
ot a) Glazing area on north/south walls 50% greater than on east/	west walls	🖵 c) At least 450) sq. ft. of	south-facing roof	area, oriented	for solar applications	
\square b) East-west axis is within 15 degrees of due east-west	I	∟ d) 90% of sou	th-facing o	glazing is shaded i	n summer, un	shaded in winter	
2. Quality Management for Durability							
2.1 Durability Planning (meet all of the following)		Prereq.	Y				Y

1-1--4 . . .

- 🖂 a) Durability evaluation completed
- b) Strategies developed to address durability issues
- 🔟 c-i) Nonpaper-faced backer board in tub, shower, spa areas
- 🗵 c-ii) No carpet in kitchen, bathroom, laundry, and spa areas
- c-iii) No carpet within 3 ft of each entryway
- └ c-iv) Install drain and drain pans in tank water heaters in/over living spaces; OR
- □ no tank water heaters in/over living spaces

- $\hfill \square$ c-v) Install drain and drain pans for clothes washers in/over living spaces; OR
- □ no clothes washers in/over living spaces
- L c-vi) Exhaust conventional clothes dryers directly to outdoors
- C-vii) Install drain and drain pan for condensing clothes dryers
- 🔄 d) Durability strategies incorporated into project documentation
- $\begin{tabular}{ll} & & \\ &$

2.2	Durability Management (meet one of the following)	Prereq.	Y			Y
	igsqcup Builder has a quality management process in place	🗵 Builder condu	cted inspe	ction using	durability inspection checklist	
2.3	Third-Party Durability Management Verification	3	3	0		3
3. Innovative	e or Regional Design					
3.1		1	1	0		1
3.2	e ∠ Innovation 2 (ruling #): EA 8.3 Exemplary	1	1	0	90% CFL or LED	1
3.3	✓ Innovation 3 (ruling #): LL5 Exemplary	1	1	0	250+ transit rides per day	1
3.4	Innovation 4 (ruling #): Pilot Credit 9 Street Grid Density	1	1	0	122 intersections per sq mi	1
Location &	Linkages (LL) (Minimum 0 LL Points Required)	Max: 10	Y:10	М:0	Notes	Final: 10
1. LEED for	Neighborhood Development					
1	LEED for Neighborhood Development	10	0	0	Ν	0
2. Site Selec						
2	Site Selection (meet all of the following)	2	2	0		2
	□ a) Built above 100-year floodplain defined by FEMA				c parkland prior to acquisition	
		e) Not built of	n land with	n prime soil	s, unique soils, or soils of state significance	
3. Preferred		4	•	0		•
3.1	5 1	1	0	0	Ν	0
OR 3.2	nfill	2	2	0		2
AND/OR 3.3	Previously Developed	1	1	0		1
4. Infrastruc						
4	Existing Infrastructure	1	1	0		1
	ty Resources / Transit					
5.1	Basic Community Resources / Transit (meet one of the following)	1	0	0	Ν	0
	\square a) Within 1/4 mile of 4 basic community resources	□ c) Within 1/2	mile of tra	insit service	es providing 30 rides per weekday	
	\square b) Within 1/2 mile of 7 basic community resources					
OR 5.2	Extensive Community Resources / Transit (meet one of the following)	2	0	0	Ν	0
	igsqcup a) Within 1/4 mile of 7 basic community resources	\Box c) Within 1/2	mile of tra	insit service	es providing 60 rides per weekday	
	\square b) Within 1/2 mile of 11 basic community resources					
OR 5.3	Outstanding Community Resources / Transit (meet one of the following)	3	3	0	CTA red line, brown line, buses	3
	igsqcup a) Within 1/4 mile of 11 basic community resources	🖃 c) Within 1/2	mile of tra	insit service	es providing 125 rides per weekday	
	igsqcup b) Within 1/2 mile of 14 basic community resources					
6. Access to	Open Space					
6	Access to Open Space	1	1	0	Frank Oz Park	1

Sustainable Sites (SS) (Minimum 5 SS Points Required)	Max: 22	Y:14.5	M:0	Notes	Final: 14.5
1. Site Stewardship					
1.1 Erosion Controls During Construction (meet all of the following)	Prereq.	Y			Ŷ
\square a) Stockpile and protect disturbed topsoil from erosion.	🖾 d) Provide sw	ales to dive	rt surface wat	ter from hillsides	
\square b) Control the path and velocity of runoff with silt fencing or equivalent.	🖂 e) Use tiers, e	erosion blan	kets, compos	t blankets, etc. on sloped areas.	
\sqcup c) Protect sewer inlets, streams, and lakes with straw bales, silt fencing, etc.					
1.2 Minimize Disturbed Area of Site (meet the appropriate requirements)	1	1	0	lot area is 2561 sf = 0.059 acre	1
Where the site is not previously developed, meet all the following:					
igsquire a) Develop tree / plant preservation plan with "no-disturbance" zones					
igsquirin b) Leave 40% of buildable lot area, not including area under roof, undisturbed					
OR Where the site is previously developed, meet all the following:					
\square 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					
$OR \ge d$) Build on a lot of 1/7 acre or less, or 7 units per acre.					
2. Landscaping					
2.1 Z No Invasive Plants	Prereq.	Y			Y
2.2 general Basic Landscaping Design (meet all of the following)	2	2	0		2
□ a) Any turf must be drought-tolerant.	🔟 d) Add mulch	or soil ame	endments as a	ippropriate.	
□ b) Do not use turf in densely shaded areas.	🔄 e) All compac	ted soil mus	st be tilled to	at least 6 inches.	
\bowtie c) Do not use turf in areas with slope of 25%					
AND/OR 2.3 z Limit Conventional Turf	3	1	0		1
53% Percentage of designed landscape softscape area that is turf					
AND/OR 2.4 Z Drought-Tolerant Plants	2	1	0		1
58% Percentage of installed plants that are drought-tolerant					
OR 2.5 ∠ Reduce Overall Irrigation Demand by at Least 20%	6	0	0	Ν	0
0% Percentage reduction in estimated irrigation water demand	(calculate)				
3. Reduce Local Heat Island Effects					
3 Z Reduce Local Heat Island Effects (meet one of the following)	1	0	0	Ν	0
oxdown a) Locate trees / plantings to provide shade for 50% of hardscapes	🗌 b) Install light	t-colored, hi	igh-albedo ma	aterials for 50% of sidewalks, patios, and driveways	

4. Surface Water Management								
4.1 <i>∞</i> Permeable Lot	4	3	0	Permeable reclaimed patio; infiltration swale	3			
63% vegetative landscape								
21% permeable paving								
6% impermeable surfaces directed to infiltration features								
10% other impermeable surfaces (areas not counted towards credit)								
4.2 Permanent Erosion Controls (meet one of the following)	1	1	0	Ν	1			
igsquirin a) For portions of lot on steep slope, use terracing and retaining walls	🔄 b) Plant trees	s, shrubs, o	r groundcov	ver				
4.3 Z Management of Runoff from Roof (meet any, see Rating System for pts)	2	0	0	Ν	0			
igsquiring a) Install permanent stormwater controls to manage runoff from the home	∟ c) Install veg	etated roof	to cover 10	00% of roof area				
\square b) Install vegetated roof to cover 50% of roof area	ot d) Have lot d	esigned by	professiona	al to manage runoff from home on-site				
5. Nontoxic Pest Control								
5 Pest Control Alternatives (meet any of the following, 1/2 pt each)	2	1.5	0		1.5			
\square a) Keep all exterior wood at least 12" above soil	,			' termite risk areas:				
arboxtimes b) Seal external cracks, joints, etc. with caulking and install pest-proof screens	-	↓ i) Treat all cellulosic material with borate product to 3' above foundation ↓ ii) Install sand or diatomaceous earth barrier						
\square c) Include no wood-to-concrete connections, or separate connections with dividers	⊥ iii) Install ste							
igsqcup d) Install landscaping so mature plants are 24" from home	📙 iv) Install noi	n-toxic term	nite bait sys	tem				
	📙 v) Use nonce	llulosic wall	structure					
	📙 vi) Use solid	concrete fo	undation wa	alls or pest-proof masonry wall design				
6. Compact Development								
6.1 Moderate Density	2	0	0	Ν	0			
1 # of total units on the lot 0.0 lot size (acres)	38.5	density	(units/acr	e)				
OR 6.2 High Density	3	0	0	Ν	0			
OR 6.3 Very High Density	4	4	0	buildable area is 1117 sf = 0.026 acre	4			
Water Efficiency (WE) (Minimum 3 WE Points Required)	Max: 15	Y:9	<i>M:1</i>	Notes	Final: 8			
1. Water Reuse								
1.1 Rainwater Harvesting System	4	0	0	N 248 gal of storage needed	0			
0% Percentage of roof area used for harvesting								
Outdoor only Application								
AND/OR 1.2 Graywater Reuse System	1	0	0	Ν	0			
OR 1.3 Use of Municipal Recycled Water System	3	0	0	Ν	0			

2. Irrigation System									
2.1 K High-Efficiency Irrigation System (meet any of the	e following, 1 pt each) 3	3	0	Controls verified	3				
igsquare a) Irrigation system designed by EPA Water Sense certified pro	ofessional 🖂 g) Install ti	mer or control	ler for each v	vatering zone					
\square b) Irrigation system with head-to-head coverage	, ,	h) Install pressure-regulating devices							
C) Install central shut-off valve	, -			tion uniformity of at least 0.70.					
\Box d) Install submeter for the irrigation system		neck valves in l noisture sensor		/ controller					
 ∠ e) Use drip irrigation for 50% of planting beds ∠ f) Create separate zones for each type of bedding 									
AND/OR 2.2 Third-party Inspection	1	0	1	Green rater verified	1				
OR 2.3 <i>⊯</i> Reduce Overall Irrigation Demand by at Least 45	% 4	0	0	Ν	0				
0% Percentage reduction in estimated irrigation	n water demand (calculate)	!							
3. Indoor Water Use									
3.1 High-Efficiency Fixtures and Fittings (meet any of the	e following, 1 pt each) 3	3	0	Toilet avg flush rate is 1.20 gpf for 1.6/1.0	2				
\Box a) Average flow rate of lavatory faucets is ≤ 2.00 gpm	└ c) Average	flow rate for a	all toilets is ≤	1.30 gpf; OR					
□ b) Average flow rate for all showers is $≤$ 2.00 gpm per stall		are dual-flush;							
		meet the EPA		specification					
3.2 Very High-Efficiency Fixtures and Fittings (meet any	r, 2 pts each) 6	4	0		2				
□ a) Average flow rate of lavatory faucets is \leq 1.50 gpm; OR	☐ b) Average	\square b) Average flow rate for all showers \le 1.75 gpm per stall							
Lavatory faucets meet the EPA Water Sense specification	🖵 c) Average	flow rate for a	all toilets is ≤	1.10 gpf					
Energy & Atmosphere (EA) (Minimum 0 EA Points Require	red) Max: 38	3 Y:13.5	M:5	Notes	Final: 29				
Energy & Atmosphere (EA) (Minimum 0 EA Points Require 1. Optimize Energy Performance	red) Max: 38	3 Y:13.5	M:5	Notes	Final: 29				
	red) Max: 38 Prereq.	З Ү:13.5 ү	M:5	Notes .27 u values	Final: 29				
1. Optimize Energy Performance			<i>М:5</i> 0		Final: 29 0				
1. Optimize Energy Performance 1.1 Performance of ENERGY STAR for Homes 1.2 Exceptional Energy Performance	Prereq.	Ŷ							
1. Optimize Energy Performance 1.1 Performance of ENERGY STAR for Homes 1.2 Exceptional Energy Performance	Prereq. 34	Ŷ							
1. Optimize Energy Performance 1.1 Performance of ENERGY STAR for Homes 1.2 Exceptional Energy Performance IECC climate zone H	Prereq. 34 ERS Index	Ŷ							
1. Optimize Energy Performance 1.1 Performance of ENERGY STAR for Homes 1.2 Exceptional Energy Performance IECC climate zone H 7. Water Heating	Prereq. 34 ERS Index e of the following) 2	Y 0	0	.27 u values	0				
1. Optimize Energy Performance 1.1 Performance of ENERGY STAR for Homes 1.2 Exceptional Energy Performance IECC climate zone H 7. Water Heating 7.1 ≤ Efficient Hot Water Distribution System (meet one)	Prereq. 34 ERS Index e of the following) 2	Y 0 0	0	.27 u values	0				
1. Optimize Energy Performance 1.1 Performance of ENERGY STAR for Homes 1.2 Exceptional Energy Performance IECC climate zone H 7. Water Heating 7.1 ≪ Efficient Hot Water Distribution System (meet one a) Structured plumbing system	Prereq. 34 ERS Index e of the following) 2	Y 0 0	0	.27 u values	0				
1. Optimize Energy Performance 1.1 Performance of ENERGY STAR for Homes 1.2 Exceptional Energy Performance IECC climate zone H 7. Water Heating 7.1 ≪ Efficient Hot Water Distribution System (meet one a) Structured plumbing system b) Central manifold distribution system	Prereq. 34 ERS Index e of the following) 2	Y 0 0	0 2 aventional sy	.27 u values	0				
1. Optimize Energy Performance 1.1 Performance of ENERGY STAR for Homes 1.2 Exceptional Energy Performance IECC climate zone H 7. Water Heating 7.1 ∞ Efficient Hot Water Distribution System (meet one a) Structured plumbing system b) Central manifold distribution system 7.2 Pipe Insulation	Prereq. 34 ERS Index e of the following) 2	Y 0 0	0 2 aventional sy	.27 u values	0				
1. Optimize Energy Performance 1.1 Performance of ENERGY STAR for Homes 1.2 Exceptional Energy Performance IECC climate zone H 7. Water Heating 7.1 ≪ Efficient Hot Water Distribution System (meet one □ a) Structured plumbing system □ b) Central manifold distribution system 7.2 Pipe Insulation 11. Residential Refrigerant Management	Prereq. 34 ERS Index e of the following) 2 □ c) Compace 1 Prereq.	Y 0 0	0 2 aventional sy	.27 u values	0				
1. Optimize Energy Performance 1.1 Performance of ENERGY STAR for Homes 1.2 Exceptional Energy Performance IECC climate zone H 7. Water Heating 7.1 ≪ Efficient Hot Water Distribution System (meet one a) Structured plumbing system b) Central manifold distribution system 7.2 Pipe Insulation 11. Residential Refrigerant Management 11.1 Refrigerant Charge Test	Prereq. 34 ERS Index e of the following) 2 C Compace 1 Prereq. 1 Iowing) 1	Y O O t design of cor 1 Y 1	0 2 nventional sy 0	.27 u values N stem	0				

Materials 8	Resources (MR) (Minimum 2 MR	Points R	equired)		Max: 16	Y:11	M:4	Notes	Final: 1
1. Material-El	fficient Framing								
	Framing Order Waste Factor				Prereq.	Y			Y
4.2	Detailed Framing Desuments				1	0	4		0
1.2	Detailed Framing Documents				1	0	1		U
AND/OR 1.3	Detailed Cut List and Lumber Order				1	0	1		0
	Requirements of MR 1.2 have been met				Detailed cut	ist and lumbe	r order corresponding to	framing plans or scopes	
AND/OR 1.4	Framing Efficiencies (meet any of the fo	ollowina. s	ee Ratino	a Svstem for pts) 3	0	1		0
				, -, ,		-			v
	Precut framing packages				Stud spacing	-			
	☐ Open-web floor trusses				🗌 Ceiling joist s	pacing greate	er than 16" on center		
	\square Structural insulated panel walls				Floor joist sp	acing greater	than 16" on center		
	☐ Structural insulated panel roof				🗌 Roof rafter s	oacing greater	r than 16" on center		
	Structural insulated panel floors							r blocking; drywall clips; 2-stud corners	
OR 1.5	Off-site Fabrication (meet one of the following the follow	lowina)			4	0	0 N		0
UK 1.5		swing/			4	0	U IN		U
	\square a) Panelized construction				📙 b) Modular, p	refabricated of	construction		
2 Environme	entally Preferable Products								
	✓ FSC Certified Tropical Wood (meet a)	ll of the fo	llowina)		Prereq.	Y	Deck	tipe is FSC certified	Y
2						-			
	☑ a) Provide suppliers with a notice of preference	for FSC proc	lucts; AND		🗵 b) No tropica	l wood installe	ed (exceptions for FSC-c	ertified or reclaimed wood)	
	Request country of manufacture for each we	ood product							
2.2	Servironmentally Preferable Products	(meet an	y, 1/2 pt (each)	8	8	0 exist	ing walls, roof, floors	8
	Assembly : component	(a) EP	Þ			(b) I	Low emission	(c) Local production	
	Exterior wall: framing			type:					
	Exterior wall: siding or masonry	2		type: Exist Brick	<u>k</u>			 	
	Floor: flooring	-	(45%)	type: sealed co		Ŀ	90% hard floo		
	Floor: flooring		(90%)	type:			SCS FloorSco	č	
	Floor: flooring		· /			1	Green Label F		
	Floor: framing	7		type: Reclaimed	d			2	
	Foundation: aggregate	2		type: Reclaimed					
	Foundation: cement	2		type: Reclaimed				7	
	Interior wall: framing			type:					
	Interior wall, ceiling: gypsum board			type:					
	Interior wall, ceiling, millwork: paint			type:			∠ type: No \	/OC	
	Landscape: decking and patio	2		type: Reclaimed	d + FSC				
	Other: cabinet	2		type: FSC+NAL					
	Other: counter			type:					
	Other: door			type:					
	Other : interior trim			type:					
	Other : adhesive, sealant						type: Low		
	Other : window frame			type:		-	71		
	Roof: framing	7		type: Reclaimed	d			<u>_</u>	
	Roof: roofing			type:					
	Roof, floor, wall: cavity insulation			type:			type:		
	Roof, floor, wall (2 of 3): sheathing			type: Reclaimed		-	.,,,,,		
	Uther water subbly bibling								
	Other: water supply piping Other: driveway			type: type:					

3. Waste Management					
3.1 Construction Waste Management Planning (meet both o	the following) Prereq.	Y			Y
☑ a) Investigate local options for waste diversion	🔄 b) Documen	nt diversion	rate for construction wa	ste	
3.2 Construction Waste Reduction (use one of the following	methods) 3	3	1		3
a) pounds waste / square foot					
cubic yards waste / 1,000 square feet					
97% b) percentage of waste diverted					
Indoor Environmental Quality (EQ) (Minimum 6 EQ Points I	Required) Max: 21	Y:13	M:15	Notes	Final: 15
1. ENERGY STAR with Indoor Air Package					
1 ENERGY STAR with Indoor Air Package	13	0	13		0
2. Combustion Venting					
2.1 Basic Combustion Venting Measures (meet all of the foll		Y			Y
a) no unvented combustion appliances		-		th closed combustion; OR	
b) carbon monoxide monitors on each floor (of each unit, if applicable			eating equipment has pow		
\Box c) no fireplace installed, OR				in detached or open-air facility; OR	
all fireplaces and woodstoves have doors	·		-heating equipment with	combustion	
2.2 Enhanced Combustion Venting Measures (meet one of t	ne following) 2	1	1		2
Type of Fireplace or stove Better pra	ctice (1 pt)		Best practice (2 (must also meet	• /	
None			granted a	utomatically	
Masonry wood-burning fireplace 🛛 mason			☐ back-draft	•	
, , , , , , , , , , , , , , , , , , , ,	y testing lab and meets EPA standards		back-draft	•	
	y testing lab and meets EPA standards power- or direct-vented, fixed doors		back-draft	•	
	rtified or meets safety requirements		□ power- or	•	
3. Moisture Control					
3 Moisture Load Control (meet one of the following)	1	1	1 Л	linisplits can run in dehum only	1
🖾 a) Additional dehumidification system	□ b) Central H	IVAC system	m equipped with addition	al dehumidification mode	
4. Outdoor Air Ventilation					
4.1 Z Basic Outdoor Air Ventilation (meet one of the follow	ving) Prereq.	Y	V	VhisperComfort ERV + continuous bath fan	Y
\square a) Qualifies under ASHRAE Std. 62.2-2007 climate exemption.	∟ c) Intermitte	ent ventilati	ion		
b) Continuous ventilation	☐ d) Passive v	entilation			
4.2 <i>K</i> Enhanced Outdoor Air Ventilation (meet one of the	following) 2	2	0 N		0
\square a) Meets EQ 4.1 part (a), active ventilation system installed	🔄 b) Install he	eat recovery	y system		
4.3 Third-Party Performance Testing	1	0	0		0

5. Local Exh	aust					
5.1		Prereq.	Y			Y
	\square a) Bathroom and kitchen exhaust meets ASHRAE Std. 62.2 air flow requirement	🗵 c) Air exhauste	ed to outdo	ors		
	\square b) Fans and ducts designed and installed to ASHRAE Std. 62.2	🖃 d) ENERGY ST	AR labeled	bathroom ex	khaust fans	
5.2	Enhanced Local Exhaust (meet one of the following)	1	1	0		1
	a) Occupancy sensor	📙 c) Automatic t	imer tied to	o switch to op	perate fan for 20+ minutes post-occupancy	
	b) Automatic humidistat controller	🖃 d) Continuous	ly operating	g exhaust far	I	
5.3	Third-Party Performance Testing	1	1	0		1
6. Distributio	n of Space Heating and Cooling					
6.1		Prereq.	Y			Y
6.2	Return Air Flow / Room-by-Room Controls (meet one of the following)	1	0	1	nonducted forced air (minisplit); bsmt radiant	1
	A. Forced-Air Systems	B. Nonducted	HVAC	Systems		
	igsquirin a) Return air opening of 1 sq. inch per cfm of supply	Elow control v		, ,		
	$\begin{aligned} $$ $$ _ b$) Limited pressure differential between closed room and adjacent spaces \end{aligned}$	Radiant floor s	system with	thermostation	c controls in every room	
6.3	Third-Party Performance Test / Multiple Zones (meet one of the following)	2	0	2		2
	A. Forced-Air Systems	B. Nonducted		•		
	oxdot Have supply air flow rates in each room tested and confirmed	Install at least	two distin	ct zones with	independent thermostat control	
7. Air Filterin	9					
7.1	Good Filters	Prereq.	Y		ERV exempt from filter requirements	Y
7.2	Better Filters	1	0	1		0
OR 7.3	Best Filters	2	0	0		0
8. Contamina	Int Control					
8.1	 Indoor Contaminant Control during Construction 	1	1	0	exhausts protected	1
8.2	Indoor Contaminant Control (meet any of the following, 1 pt each)	2	2	1	central vac	2
	\Box a) Design and install permanent walk-off mats at each entry	🖂 c) Install centr	al vacuum	system with	exhaust to outdoors	
	 ∠) ∠ Logs area primary primary and storage space near primary entryway 	,				
8.3		1	0	1		0
9. Radon Pro						
	✓ Radon-Resistant Construction in High-Risk Areas	Prereq.	N/A			N/A
				0		4
9.2	 Radon-Resistant Construction in Moderate-Risk Areas 	1	1	0		

10. Garage Pollutant Protection		
10.1 No HVAC in Garage	Prereq. Y	Ŷ
10.2 Minimize Pollutants from Garage (meet all of the following)	2 2 0	2
a) In conditioned spaces above garage:	b) In conditioned spaces next to garage	
${\ensuremath{{}^{{}_{{}_{{}_{{}}}}}}}$ Seal all penetrations and connecting floor and ceiling joist bays	U Weather-strip all doors	
	Carbon monoxide detectors in rooms that share a door with garage	
	${\displaystyle {\large { \blacksquare } }}$ Seal all penetrations and cracks at the base of walls	
AND/OR 10.3 Exhaust Fan in Garage (meet one of the following)	1 1 0 110 cfm fan tied to timer	1
□ a) Fan runs continuously	oxdot b) Fan designed with automatic timer control	
OR 10.4 Detached Garage or No Garage	3 0 0 N	0
Awareness & Education (AE) (Minimum 0 AE Points Required)	Max: 3 Y:2 M:0 Not	tes Final: 1
1.1 Basic Operations Training (meet both of the following)	Prereq. Y	Ŷ
님 a) Operations and training manual	☑ b) One-hour walkthrough with occupant(s)	
1.2 Enhanced Training	1 1 0 Owner involved and serve	ed as GC 1
	1 1 0	
1.3 Public Awareness (meet three of the following)	1 1 0	0
 1.3 Public Awareness (meet three of the following) □ a) Open house on at least four weekends 	□ c) Newspaper article on the project	0
	· · ·	0
\square a) Open house on at least four weekends	□ c) Newspaper article on the project	0
 a) Open house on at least four weekends b) Website about features and benefits of LEED homes 	□ c) Newspaper article on the project	0

USGBC LEGAL DISCLAIMER

USGBC makes no warranty with respect to any LEED certified project, including any warranty of habitability, merchantability, 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 PARTIES

have been met for the indicated credits and will, if aud		for Homes requi	rements, as specified in the LEED for Homes Rating System,
Project Team Leader	Lisa Elkins	Company	2 Point Perspective
Signature		Date	
as specified in the LEED for Homes Rating System, ha	,	umentation packa	nd performance testing for the LEED for Homes requirements, age and conducted the necessary QA/QC procedures with the fomes certification, as per the attached checklist.
Provider QAD	Michael Holcomb	Company	Green Home Institute
Signature		Date	
By affixing my signature below, the undersigned does	hereby declare and affirm to the USGBC that the requir	ed inspections ar	ad performance testing for the LEED for Homes requirements
as specified in the LEED for Homes Rating System, ha			
as specified in the LEED for Homes Rating System, ha	ave been completed.		
as specified in the LEED for Homes Rating System, ha	ave been completed.	rification & Submi	ittal Guidelines and Addendum.
as specified in the LEED for Homes Rating System, ha I also hereby confirm that all verification services were Green Rater Signature By affixing my signature below, the undersigned does as specified in the LEED for Homes Rating System, ha	ave been completed. e performed in accordance with the LEED for Homes <u>Ver</u> <i>Jason LaFleur</i> hereby declare and affirm to the USGBC that the requir	rification & Submi Company Date red inspections ar	ittal Guidelines and Addendum. Eco Achievers Image: A structure of the structure of the left of the structure of the left of the structure of the
as specified in the LEED for Homes Rating System, ha I also hereby confirm that all verification services were Green Rater Signature By affixing my signature below, the undersigned does as specified in the LEED for Homes Rating System, ha	ave been completed. a performed in accordance with the LEED for Homes Ver Jason LaFleur hereby declare and affirm to the USGBC that the requir ave been completed.	rification & Submi Company Date red inspections ar	ittal Guidelines and Addendum. Eco Achievers Image: A structure of the structure of the left of the structure of the left of the structure of the

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. Preliminary Rating Available Y / Pts Maybe No Notes	Project Points
Energy & Atmosphere (EA) (Minimum 0 EA Points Required)	Max: 38 Y:13.5 M:5 Notes	Final: 29
2. Insulation 2.1 Basic Insulation (meet both of the following)	Dianas	V
2.1 Dasic insulation (meet bour of the following)	Prereq.	Y
☐ a) Insulation meets R-value requirements of IECC	☑ b) Insulation meets HERS Grade II specifications for installation	
2.2 Enhanced Insulation (meet both of the following)	2 0 0 Mix of CC and OC SPF	2
${}^{\buildrel }$ a) Insulation exceeds R-value requirements of IECC by 5%	oxdot b) Insulation meets HERS Grade I specifications for installation	
3. Air Infiltration		
3.1 Reduced Envelope Leakage	Prereq.	Ŷ
3.6 Air leakage rate in ACH50		
3.2 Greatly Reduced Envelope Leakage	2 0 0	0
OR 3.3 Minimal Envelope Leakage	3 0 0	0
	5 0 0	U
4. Windows 4.1 Good Windows (meet all of the following)	Prereq27 u value	Y
 □ a) Windows and glass doors meet ENERGY STAR BOP window specifications 	 D b) Skylight glazing area is ≤ 3% of floor area AND Skylights meet ENERGY STAR requirements for skylights 	ľ
4.2 Enhanced Windows	2 2 0 Advanced T & T 4500 NFCR rate	ed 2
OR 4.3 Exceptional Windows	3 0 0	0
5. Heating and Cooling Distribution System		
5.1 Reduced Distribution Losses (meet all of the following, as appropriate)	Prereq. None are appropriate	Y
A. Forced-Air Systems	B. Nonducted HVAC Systems	
a) Duct leakage of ≤ 4.0 CFM at 25 Pascals per 100 sq.ft.	L At least R-3 insulation around pipes in unconditioned 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 Greatly Reduced Distribution Losses (meet the following, as appropriate A. Forced-Air Systems 	B. Nonducted HVAC Systems	0
□ Duct leakage of \leq 3.0 CFM at 25 Pascals per 100 sq.ft.	☐ Keep the boiler and pipes entirely within conditioned envelope	
OR 5.3 Minimal Distribution Losses (meet one of the following, as appropriate)		
A. Forced-Air Systems	3 3 0 B. Nonducted HVAC Systems	3
\square a) Duct leakage of ≤ 1.0 CFM at 25 Pascals per 100 sq.ft.	U Outdoor reset control to set distribution temp. based on outdoor temp.	
\Box b) Air-handler and all ductwork is within conditioned envelope and EA 3.3 is met	,,,	
$_$ c) Air-handler and all ductwork visibly within conditioned spaces (not in walls, etc.)		

6. Space H	Heating and Cooling Equipment		
e	6.1 Cood HVAC Design and Installation (meet all of the following)	Prereq.	Y
	${\mathbb D}$ a) Design and size HVAC equipment using ACCA Manual J or equivalent	\square c) Install ENERGY STAR programmable thermostat OR	
		Heat pump or hydronic installed and exempted from part (c)	
	/ini-split MSZ-FE09NA & MSZ-FE12N Type of cooling system	/ini-split MSZ-FE09NA & MSZ-FE12N/Type of heating system	
	26.0 Btu/h/W & 23.0 Btu/h/W Cooling efficiency (SEER / EER)	10.6 Btu/h/W & 10.0 Btu/h/W Heating Efficiency (AFUE / HSPF	/ COP)
e	6.2 High-Efficiency HVAC	2 0 0	0
OR e	6.3 Very High Efficiency HVAC	4 3 0	4
7. Water He	Heating		
7	7.1 Set Efficient Hot Water Distribution System (meet one of the following)	2 0 0	0
	igsqcup a) Structured plumbing system	igsqcup c) Compact design of conventional system	
_	b) Central manifold distribution system		
7	7.2 Pipe Insulation	1 0 1 R4 confirmed	1
7	7.3 Efficient Domestic Hot Water Equipment	3 0 3	3
	Heat pump water heater Type of DHW system		
	2.4 Efficiency Solar: Percentage of annual DHW loa	ad	
8. Lighting	a		
	8.1 ENERGY STAR Lights	Prereq.	Y
8	8.2 Improved Lighting (meet one of the following, see Rating System for pts)	1.5 0 0	0
	☐ a) Indoor lighting - 3 additional ENERGY STAR lights in high-use rooms	b) Exterior lighting - motion sensor controls or integrated PV	
OR 8		3 3 0 only one lamp is not ES	3
	□ a) 60% of fixtures are ENERGY STAR fixtures		Ū
0. 4			
9. Appliance	nces 9.1 High-Efficiency Appliances (meet any, see Rating System for pts)	2 1.5 0	1
	\perp a) ENERGY STAR labeled refrigerator	∠ 1.0 URERGY STAR labeled dishwasher using 6.0 gallons per cycle or less	,
	\Box b) ENERGY STAR labeled reling fans in living/family room and all bedrooms	∠ d) ENERGY STAR labeled distrivisitier distrig 0.0 galloris per cycle of ress	
ç	9.2 Water-Efficiency Clothes Washer	1 0 1 Whirlpool Duet MEF 3.2, WF 3.0	1
	wable Energy		
	10 ∠ Renewable Energy System	10 0 0	8.0
	12,654 Reference electric load, kWh/yr (based on HERS		
		, <u> </u>	.vv1/yi
	24.0% Percentage of annual reference electric load met by renewable syste	em	
	ential Refrigerant Management		
1	11.1 Refrigerant Charge Test	Prereq.	Y
1	11.2 Appropriate HVAC Refrigerants (meet one of the following)	1 1 0	1
	a) Use no refrigerants	\square c) Use refrigerants that complies with global warming potential equation	
	b) Use non-HCFC refrigerants		

LEED for Homes Project Checklist, Project Notes

This section was created to give project teams additional space to make internal notes on the progress of the project. It does not need to be used and it **should not** be submitted to USGBC. This section is unlocked, so project teams are welcome to make changes to the format as necessary. Any comments or directions provided below have not been created or endorsed by the US Green Building Council.

Date project began:	
Initiated by:	

redits Responsible Party Last Updated

ID 1	. Integrated	l Project Planning		
	1.1	Jason LaFleur		
	1.2	Emily Tjeerdsma	10/22/2013	[2013-10-22] Uploaded meeting agendas to Box.net
	1.3	N/A		
	1.4	Team	10/15/2013	[2013-10-15] Held LEED-Homes charrette at 2 Point Perspective office
	1.5	N/A		
ID 2	. Quality M	gmt for Durability		
	2.1	Emily Tjeerdsma, Jim Gramata	2/25/2014	[2014-02-25] Durability evaluation has been completed and stragegies outlined. The strategies have been noted/indicated on the permit/construction drawings. Contractor

Additional Notes

		shall implement durability strategies.

	2.2	Jim Gramata	
	2.3	Jason LaFleur	
3. In	novative o	r Regional Design	
	3.1		
	3.2	Jim Gramata	
	3.3	Emily Tjeerdsma	http://www.walkscore.com/report/2056-n-bissell-st-chicago-il-60614
	3.4	Emily Tjeerdsma	http://www.walkscore.com/report/2056-n-bissell-st-chicago-il-60614

redits Responsible Party Last Updated Additional Notes

LL 1	. LEED for	Neighborhood Developm	nent
	1	N/A	
LL 2	. Site Sele	ction	
	2	Emily Tjeerdsma	[2014-02-25] Existing building site complies with all aspects of this credit.
LL 3	. Preferred	I Locations	
	3.1	N/A	
	3.2	Emily Tjeerdsma	[2014-02-25] 100% of the perimeter borders previously developed land with development 5+ years old.
	3.3	Emily Tjeerdsma	[2014-02-25] The building lot was previously developed, and the existing building is to remain - all utilities, plumbing service, etc. are existing.
LL 4	. Infrastrue	cture	
	4	Emily Tjeerdsma	[2014-02-25] All utilities, plumbing service, sewer, etc. for the building are existing and therefore within 1/2 mile from the property.
LL 5	. Commun	ity Resources	
	5.1	N/A	
	5.2	N/A	
	5.3	Emily Tjeerdsma	[2014-02-25] Walk Score Report has been uploaded to Box.net and can be found here: http://www.walkscore.com/score/2056-n-bissell-st-chicago-il-60614
LL 6	Access t	o Open Space	
	6	Emily Tjeerdsma	[2014-02-25] Oz Park is 13.32 acres and is located within 1/2 mile from the property along with several other smaller parks.

redits

SS 1	. Site Stew	ardship	
	1.1	Jim Gramata	[2014-02-25] Erosion Controls are noted on permit/construction drawing set.
	1.2	Emily Tjeerdsma	[2014-02-25] Lot area is 2561 sf = 0.059 acre.
SS 2	2. Landsca	0	
	2.1	Stephen Prassas	[2016-01-04] We have not used any species on this project that are invasive to the Chicago area. A list of Chicago Region Invasive Species and the Rules and Regulations have been uploaded to Box.net. Please note that <i>Euronymus fortunei</i> is indicated on the Chicago Botanic Garden list as an "E" for Evaluate species. In my 20+ years of [2016-01-04] The turf for this project is specified as a drought tolerant sod that is a blend of three Tall Fescue varieties, <i>Festuca arundinacea</i> (Dakota, Montana, and Dorado). Flend may include up to 10% of Kentucky Bluegrass, <i>Poa pratensis</i> and/or 10% of Perennial Ryegrass, <i>Lolium perenne</i> . Brand Name: Black Beauty. There are no densely shaded turf areas on this site. There are no slopes on the site with a slope of 25% or greater. The specifications call for all beds to be amended with a soil amendment blend of compost, rice hulls, composted pine bark, enzymes, mycorrizae, and trace mineral supplement. All beds are specified to be covered with premium hardwood bark mulch. All compacted soil is specified to be removed or tilled to a depth of 2". I did not specify the soil be tilled to a depth of 6" because there are a lot of existing tree roots in the area that we did not want to disturb. Also, the level of construction compaction was minimal for this site since the building was existing and most of the construction was in the interior; no construction vehicles were driven on-site.
	2.3	Stephen Prassas	[2016-01-04] We have limited the amount of turf for this project to 53% of the total landscape area. Calculations have been uploaded to Box.net.
	2.4	Stephen Prassas	[2016-01-04] The quantity of plants that are drought-tolerant is 58%. I calculated 265 plants out of a total of 458. This is a very conservative number because there is no drought-tolerant plant list for the Chicago or Northern Illinois region; I believe the quantity of plants on this list that are actually drought-tolerant to be much higher. In addition to my 20+ years of professional experience, I referenced the plant list with <i>The Manual of Woody Landscape Plants</i> by Michael Dirr, <i>Perennials for Illinois</i> by William Aldrich and Don Williamson and the <i>Midwest Groundcovers LLC Trade List</i> . See the uploaded plant list.
	2.5	Stephen Prassas	[2016-01-04] We chose the prescriptive based path because the irrigation system was not designed by a Water Sense professional. Because we have chosen this route, we cannot earn points for SS25. or WE2.3.
SS 3		ocal Heat Island Effects	
	3	N/A	

4.1	Stephen Prassas	[2016-01-04] This project is designed so 91% of the built environment will infiltrate into the site. This is achieved through a mostly vegetative landscape and several differe types of permeable paving. It is also achieved through the collection of the rainwater that falls on the second floor deck into the fountain and fountain cistern which overflow
		into infiltration stream/rain garden. The Landscape Plan and Calculations have been uploaded to Box.net.
4.2	Stephen Prassas	[2016-01-04] We have provided 2 trees, 7 shrubs, and over 193 sf of native groundcover for this project. Although each of these plant types individually is below the
		requirements, collectively they exceed the requirements by almost 50%. The Landscape Plan, Calculations, and the Plant List have been uploaded to Box.net.
4.3	N/A	
. Nontoxic	Pest Control	
5	Jim Gramata	

SS 6. Compact Development

SS	6. Compact	. Compact Development						
	6.1	N/A						
	6.2	N/A						
	6.3	Emily Tjeerdsma		[2014-02-25] Buildable area is 11176 sf = 0.026 acre				

Credits Responsible Party Last Updated Additional Notes

WE	E 1. Water Reuse					
	1.1	N/A				
	1.2	N/A				
	1.3	N/A				

WE 2. Irrigatio	-	
2.1	Jim Gramata	
2.2	Jason LaFleur	
2.3	Stephen Prassas	[2016-01-04] We chose the prescriptive based path because the irrigation system was not designed by a Water Sense professional. Because we have chosen this route, we cannot earn points for SS25. or WE2.3.
WE 3. Indoor V	Vater Use	
3.1	Jim Gramata	

3.1 Jim Gramata 3.2 Jim Gramata

credits Responsible Party Last Updated Additional Notes

EA	1. Optimize Energy Performance						
	1.1	Jim Gramata, Jason LaFleur					
	1.2	Jim Gramata, Jason LaFleur					
EA	7. Water He	ating					
	7.1						

7.2	Jim Gramata	[2016-01-04] R-4 (min.) pipe insulation noted on sheets G002 and P001.

EA 11. Residential Refrigerant Management

TT. Resider						
11.1	Jim Gramata					
11.2	Jim Gramata		[2016-01-04] Noted on sheets G002 and M001.			

MR 1	. Material	Efficient Framing		
	1.1	Jim Gramata		
	1.2	Jim Gramata		
	1.3	Jim Gramata		
	1.4	Jim Gramata		
	1.5	N/A		
MR 2	2. Environmentally Preferable Products			
	2.1	Emily Tjeerdsma, Jim Gramata		[2014-02-25] Notice was listed on permit/construction drawings. A copy has been uploaded to Box.net.

2.2	Emily Tjeerdsma, Jim Gramata	[2014-02-25] Finish schedule has been uploaded to Box.net. Contractor to supply spec sheets for the construction materials (e.g. gypsum board, adhesives, sealants, paint, reclaimed framing, etc.).

MF	R 3. Waste M	3. Waste Management							
	3.1	Jim Gramata							
	3.2	Jim Gramata		uploaded to Box					

Credits Responsible Party Last Updated Additional Notes

EQ 1	. ENERGY	′ STAR w/ IAP				
	1					
EQ 2	EQ 2. Combustion Venting					
	2.1	Emily Tjeerdsma, Jim Gramata		[02-25-2014] Sheets M001 and M100 have been uploaded to Box.net.		
	2.2	Jim Gramata				
EQ 3	. Moisture					
	3	Jim Gramata, mechanical sub				
EQ 4		Air Ventilation				
	4.1	Jim Gramata, mechanical sub		[02-25-2014] Mechanical sheets were uploaded to Box.net.		
	4.2					
	4.3					

50.5	Q 5. Local Exhaust					
EQ 5	5.1	Jim Gramata, mechanical sub				
	5.1	Jim Gramata, mechanical sub				
	5.2	Jim Gramata, mechanical sub				
	5.3	Jason LaFleur				
EQ 6	. Distribut	ion of Space Heating and	Coolina			
	6.1	Jim Gramata, mechanical sub				
	6.2	Jim Gramata, mechanical sub				
	6.3	Jason LaFleur				
	0.0					
EQ 7	. Air Filter	ing				
	7.1	-				
	7.2					
	1.2					
	7.3	Jim Gramata, mechanical sub				
FO 8	Contami	nant Control				
	8.1	Jim Gramata				
	8.2	Emily Tjeerdsma, Jim Gramata				
	8.3					
EQ 9	. Radon P	rotection				
	9.1	N/A				
1	0.2	lim Cromoto				
	9.2	Jim Gramata				

EQ 10. G	10. Garage Pollutant Protection					
1	10.1	Emily Tjeerdsma		[02-25-2014] Mechanical sheets were uploaded to Box.net.		
1	10.2	Jim Gramata				
1	10.3	Jim Gramata		[02-25-2014] Mechanical sheets were uploaded to Box.net.		
1	10.4					

Credits Responsible Party Last Updated Additional Notes

AE	AE 1. Education of Home Owner / Tenant						
	1.1	Jim Gramata					
	1.2	Jim Gramata					
	1.3	Jim Gramata					
AE	AE 2. Education of the Building Manager						
	2						

redits	Responsible Party	Last Updated

Additional Notes

EA 2. Insulation							
	2.1						
	2.2						
EA 3.	EA 3. Air Infiltration						
	3.1						
	3.2						
OR	3.3						
EA 4.	Windows	5					
	4.1						
	4.2						
OR	4.3						
EA 5.	Heating	and Cooling Distribution					
	5.1						
	5.2						
OR	5.3						

EA 6. Space Heating and Cooling Equipment				
	6.1			
OR	6.2 6.3			
		-		
EA	7. Water He	eating		
	7.2			
	7.3			
EA	8. Lighting			
	8.1			
	8.2			
OR				
EA	9. Appliance	es		
	9.1			
	9.2			
EA '		able Energy		
	10			
EA [·]	11. Reside	ntial Refrigerant Manager	nent	
	11.1			
	11.2			