

Project Summary for a Completed LEED for Homes Project

This documentation package must be submitted to USGBC by the designated LEED for Homes Provider.

To:		LEED for Homes	From:		
	202 - 82 202 - 82 S. Green			ton, DC 20037	
Documer	tation F Signed F Signed L			Durability Evaluation Form Signed Durability Inspection Certification fee	Checklist
Project In	-		Verification Tr	eam Information	
Project nam Project add City Metro. An State Subdivision Project Te Builder Other Team Members	ne ress(es) rea / Dev. eam Inf e	40790 Waring Road40790 Waring RoadSt. PeterNAMinnesotaNA	Provider QAD Company Green Rater Company Green Rater Company Team Leader Company Address	Pat O'Malley Building Knowledge Pat O'Malley Building Knowledge Sarah Nettleton Sarah Nettleton Architects 275 East 4th Street, #620, sn@sarah-architects.com	
Project In Type of buil Type of buil # of homes: # of stories IECC climat EPA radon 2	ding der te zone	ON (how to choose?) Single detached (how to choose?) Custom 1 2 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	# of bedrooms: Floor area (squar Home Size Adjus EA pathway? HERS Index (if ar	tment:	4 2,913 3 Performance 40
Reviewed	d by Pro	vider QAD	Name:	Patrick O'Ma	alley

I have evaluated this project's documentation package and conducted the necessary QA/QC procedures with the Green Rater, and I hereby declare and affirm to USGBC that this project is ready to earn LEED for Homes certification, as per the attached checklist. Company: Signature: Date: Patrick O'Malley Building Knowledge, Inc. 9/2/10

EN BUILDING			LEED	for H	omes Proje	ect Checl	klist	
for Homes	Builder Name:			Swenso	n Construction			
	Project Team L	.eader:		Sarah N	ettleton, Sarah Ne	ettleton Archit	tects	
USGBC	Home Address	(Street/City/S	tate):	40790 V	/aring Road, St. P	eter, Minneso	ta	
Project Description					Adjusted Certific	ation Thresho	olds	
Building Type: Single detached	Project type:	Custom			Certified:	48.0	Gold:	78.0
# of Bedrooms: 4	Floor Area:	2,913			Silver:	63.0	Platinum:	93.0
Project Point Total			Final Cre	dit Cate	gory Point To	tals		
Prelim: 76 + 0 maybe pts Final: 82.5			ID:	5	SS: 15.5	EA:	26	EQ: 15
Certification Level			LL:	1	WE: 9	MR:	9	AE: 2
Prelim: Silver Final: Gold								
				- "				
date last updated: 8/12/10 last updated by: Sarah Nettleton			Max Pts.		minary Rating Maybe No		Notes	Project
			Available	Y/Pts	-		Notes	Points
Innovation & Design Process (ID) (Minimum 0 ID Poin	s Required)		Max: 11	Y:5	М:0			Final: 5
1. Integrated Project Planning 1.1 Preliminary Rating			Prereq.	_				Ŷ
Target performance tier: Gold	7		Fieley.					r
1.2 Integrated Project Team (meet all of the following)	_		1	1	0			1
\mathbf{X} a) Individuals or organizations with necessary capabilities			c) Regular n	• neetinas hela	d with project team			
b) All team members involved in various project phases				<u> </u>				
1.3 Professional Credentialed with Respect to LEED fo	r Homes		1	0	0	please	see ID 01-06 for c	letails 0
1.4 Design Charrette			1	0	0			0
1.5 Building Orientation for Solar Design (meet all of th	e following)		1	0	0			0
a) Glazing area on north/south walls 50% greater than on ea	st/west walls		C) At least 4	50 sq. ft. of	south-facing roof area, o	oriented for solar a	applications	
b) East-west axis is within 15 degrees of due east-west			d) 90% of s	outh-facing	glazing is shaded in sum	mer, unshaded in	winter	
2. Quality Management for Durability								
2.1 Durability Planning (meet all of the following)			Prereq.	Ŷ				Y
a) Durability evaluation completed					ncorporated into project			
 b) Strategies developed to address durability issues c) Moisture control measures from Table 1 incorporated 				measures li	sted in durability inspect	LIOH CHECKIIST		
2.2 Durability Management (meet one of the following)			Prereq.	Y				Y
Builder has a quality management process in place			Builder cond	lucted inspe	ction using durability ins	pection checklist		
2.3 Third-Party Durability Management Verification			3	3	0			3

3. Innovative or Regional Design				
3.1 Innovation 1 (ruling #): SS 2.5 + SS 2.2 b, c & d are met	1	1	0	1
3.2 Innovation 2 (ruling #):	1	0	0	0
3.3 Innovation 3 (ruling #):	1	0	0	0
3.4 Innovation 4 (ruling #):	1	0	0	0
Location & Linkages (LL) (Minimum 0 LL Points Required)	Max: 10	Y:0	М:0	Final: 1
1. LEED for Neighborhood Development				
1 LEED for Neighborhood Development	10	0	0	0
2. Site Selection				
2 Site Selection (meet all of the following)	2	0	0	0
a) Built above 100-year floodplain defined by FEMA			t was public parkland prior to acquisition	
 b) Not built on habitat for threatened or endangered species c) Not built within 100 ft of water, including wetlands 	e) Not built o	n land with	n prime soils, unique soils, or soils of state significance	
c) Not built within 100 ft of water, including wetlands				
3. Preferred Locations				
3.1 Edge Development	1	0	0	0
OR 3.2 Infill	2	0	0	0
AND/OR 3.3 Previously Developed	1	0	0	0
4. Infrastructure				
4 Existing Infrastructure	1	0	0	0
5. Community Resources / Transit				
5.1 Basic Community Resources / Transit (meet one of the following)	1	0	0	0
a) Within 1/4 mile of 4 basic community resources	c) Within 1/2	mile of tra	ansit services providing 30 rides per weekday	
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	0
a) Within 1/4 mile of 7 basic community resources	c) Within 1/2	mile of tra	ansit services providing 60 rides per weekday	
b) Within 1/2 mile of 11 basic community resources				
OR 5.3 Outstanding Community Resources / Transit (meet one of the following)	3	0	0	0
a) Within 1/4 mile of 11 basic community resources	_	mile of tra	insit services providing 125 rides per weekday	
b) Within 1/2 mile of 14 basic community resources				
6. Access to Open Space				
6 Access to Open Space	1	0	0	1
				•

Sustain	able	Sites (SS) (Minimum 5 SS Points Required)	Max: 22	Y:16	M:0	Final: 15.5
1. Site St	tewar	dship				
	1.1	Erosion Controls During Construction (meet all of the following)	Prereq.	Y		Y
		a) Stockpile and protect disturbed topsoil from erosion.	d) Provide sw	ales to dive	ert surface water from hillsides	
		b) Control the path and velocity of runoff with silt fencing or equivalent.	e) Use tiers, e	erosion blan	kets, compost blankets, etc. on sloped areas.	
		C) Protect sewer inlets, streams, and lakes with straw bales, silt fencing, etc.				
	1.2	Minimize Disturbed Area of Site (meet the appropriate requirements) Where the site is not previously developed, meet all the following:	1	1	0	1
		a) Develop tree / plant preservation plan with "no-disturbance" zones				
		b) Leave 40% of buildable lot area, not including area under roof, undisturbed				
	Oł	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				
	OF	d) Build on a lot of 1/7 acre or less, or 7 units per acre.				
2. Lands	capin	-				
	2.1	No Invasive Plants	Prereq.	Y		Y
	2.2	Basic Landscaping Design (meet all of the following)	2	2	0	0
		a) Any turf must be drought-tolerant.	d) Add mulch	n or soil ame	endments as appropriate.	
		b) Do not use turf in densely shaded areas.	e) All compa	cted soil mu	ist be tilled to at least 6 inches.	
		\mathbf{X} c) Do not use turf in areas with slope of 25%				
AND/OR	2.3	Limit Conventional Turf	3	0	0	0
		0% Percentage of designed landscape softscape area that is turf				
AND/OR	2.4	Drought-Tolerant Plants	2	0	0	0
		96% Percentage of installed plants that are drought-tolerant				
OR	2.5	Reduce Overall Irrigation Demand by at Least 20%	6	6	0	6
		62% Percentage reduction in estimated irrigation water demand	<u>(calculate)</u>			
3. Reduc	e Loo	al Heat Island Effects				
	3	Reduce Local Heat Island Effects (meet one of the following)	1	0	0	0
		a) Locate trees / plantings to provide shade for 50% of hardscapes	b) Install ligh	t-colored, h	igh-albedo materials for 50% of hardscapes	

4. Surface Water Management		
4.1 Permeable Lot	4 4 0	4
97% vegetative landscape		
1% permeable paving		
2% impermeable surfaces directed to infiltration features		
0% other impermeable surfaces (areas not counted towards credit)		
4.2 Permanent Erosion Controls (meet one of the following)	1 1 0	1
a) For portions of lot on steep slope, use terracing and retaining walls	b) Plant trees, shrubs, or groundcover	
4.3 Management of Runoff from Roof (meet any, see Rating System for pts)	2 2 ⁰	2
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	ig M d) Have lot designed by professional 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 2 0	1.5
a) Keep all wood at least 12" above soil	e) In 'moderate' to 'very heavy' termite risk areas:	
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 	
c) Include no wood-to-concrete connections, or separate connections with dividers	iii) Install steel mesh barrier termite control system	
d) Install landscaping so mature plants are 24" from home	v) 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		
6.1 Moderate Density	2 0 ⁰	0
1 # of total units on the lot 25.0 lot size (acres)	0.0 density (units/acre)	
OR 6.2 High Density	3 0 ⁰	0
OR 6.3 Very High Density	4 0 0	0
Water Efficiency (WE) (Minimum 3 WE Points Required)	Max: 15 Y:7 M:0	Final: 9
1. Water Reuse		
1.1 Rainwater Harvesting System	4 3 0	3
59% Percentage of roof area used for harvesting		
Outdoor only Application		
AND/OR 1.2 Graywater Reuse System	1 0 0	0
OR 1.3 Use of Municipal Recycled Water System	3 0 0	0

z. imyau	ion Sy	ystem				
	2.1	High-Efficiency Irrigation System (meet any of the following, 1 pt each)	3	0	0	0
		a) Irrigation system designed by EPA Water Sense certified professional	g) Install time	er or contro	ller for each watering zone	
		b) Irrigation system with head-to-head coverage	h) Install pres	ssure-regula	ating devices	
		c) Install central shut-off valve			s with distribution uniformity of at least 0.70.	
		d) Install submeter for the irrigation system	j) Check valve			
		e) Use drip irrigation for 50% of planting beds	k) Install moi	sture senso	or or rain delay controller	
		f) Create separate zones for each type of bedding				
AND/OR	2.2	Third-party Inspection	1	0	0	0
OR	2.3	Reduce Overall Irrigation Demand by at Least 45%	4	4	0	4
		62% Percentage reduction in estimated irrigation water demand	<u>(calculate)</u>			
3. Indoor	Wate					
	3.1	High-Efficiency Fixtures and Fittings (meet any of the following, 1 pt each)	3	0	0	0
		a) Average flow rate of lavatory faucets is ≤ 2 gpm	c) Average flo	ow rate for	all toilets is \leq 1.3 gpf; OR	
		b) Average flow rate for all showers is \leq 2.0 gpm per stall	Toilets are	e dual-flush	; OR	
			Toilets me	eet the EPA	Water Sense specification	
	3.2	Very High-Efficiency Fixtures and Fittings (meet any, 2 pts each)	6	0	0	2
		a) Average flow rate of lavatory faucets is ≤ 1.5 gpm; OR	b) Average flo	ow rate for	all showers \leq 1.75 gpm per stall	
		Lavatory faucets meet the EPA Water Sense specification	c) Average flo	ow rate for	all toilets is ≤ 1.1 gpf	
Energy	& Δt					Final: 26
		tmosphere (EA) (Minimum 0 EA Points Required)	c) Average flo	w rate for Y:26	all toilets is ≤ 1.1 gpf <i>M:0</i>	Final: 26
	ize En	tmosphere (EA) (Minimum 0 EA Points Required) nergy Performance	Max: 38			
		tmosphere (EA) (Minimum 0 EA Points Required) nergy Performance				Final: 26 Y
	ize En	tmosphere (EA) (Minimum 0 EA Points Required) nergy Performance Performance of ENERGY STAR for Homes	Max: 38			
	ize En 1.1	tmosphere (EA) (Minimum 0 EA Points Required) nergy Performance Performance of ENERGY STAR for Homes	Max: 38 Prereq.	Y:26	M:0	Ŷ
	ize En 1.1 1.2	tmosphere (EA) (Minimum 0 EA Points Required) nergy Performance Performance of ENERGY STAR for Homes Exceptional Energy Performance 6 IECC climate zone	Max: 38 Prereq.	Y:26	M:0	Y
1. Optimi	ize En 1.1 1.2	tmosphere (EA) (Minimum 0 EA Points Required) nergy Performance Performance of ENERGY STAR for Homes Exceptional Energy Performance 6 IECC climate zone 40 HERS Index ing	Max: 38 Prereq.	Y:26	M:0	Ŷ
1. Optimi	ize En 1.1 1.2 Heatin	tmosphere (EA) (Minimum 0 EA Points Required) nergy Performance Performance of ENERGY STAR for Homes Exceptional Energy Performance 6 IECC climate zone 40 HERS Index ing	Max: 38 Prereq. 34	Y:26 24 0	M:0 0	Y 24
1. Optimi	ize En 1.1 1.2 Heatin	tmosphere (EA) (Minimum 0 EA Points Required) nergy Performance Performance of ENERGY STAR for Homes Exceptional Energy Performance 6 IECC climate zone 40 HERS Index ing Efficient Hot Water Distribution System (meet one of the following)	Max: 38 Prereq. 34	Y:26 24 0	<i>M:0</i> 0 0	Y 24
1. Optimi	ize En 1.1 1.2 Heatin	tmosphere (EA) (Minimum 0 EA Points Required) nergy Performance Performance of ENERGY STAR for Homes Exceptional Energy Performance 6 IECC climate zone 40 HERS Index ing Efficient Hot Water Distribution System (meet one of the following) a) Structured plumbing system b) Central manifold distribution system	Max: 38 Prereq. 34	Y:26 24 0	<i>M:0</i> 0 0	Y 24
1. Optimi 7. Water	ize En 1.1 1.2 Heatin 7.1	tmosphere (EA) (Minimum 0 EA Points Required) nergy Performance Performance of ENERGY STAR for Homes Exceptional Energy Performance 6 IECC climate zone 40 HERS Index ing Efficient Hot Water Distribution System (meet one of the following) a) Structured plumbing system b) Central manifold distribution system	Max: 38 Prereq. 34 2 C) Compact d	Y:26 24 0	M:0 0 nventional system	Y 24 0
1. Optimi 7. Water	ize En 1.1 1.2 Heatin 7.1	tmosphere (EA) (Minimum 0 EA Points Required) nergy Performance Performance of ENERGY STAR for Homes Exceptional Energy Performance 6 IECC climate zone 40 HERS Index ing Efficient Hot Water Distribution System (meet one of the following) a) Structured plumbing system b) Central manifold distribution system Pipe Insulation al Refrigerant Management	Max: 38 Prereq. 34 2 C) Compact d	Y:26 24 0	M:0 0 nventional system	Y 24 0
1. Optimi 7. Water	ize En 1.1 1.2 Heatin 7.1 7.2 Ientia 11.1	tmosphere (EA) (Minimum 0 EA Points Required) nergy Performance Performance of ENERGY STAR for Homes Exceptional Energy Performance 6 IECC climate zone 40 HERS Index ing Efficient Hot Water Distribution System (meet one of the following) a) Structured plumbing system b) Central manifold distribution system Pipe Insulation al Refrigerant Management	Max: 38 Prereq. 34 2 c) Compact d 1	Y:26 24 0	M:0 0 nventional system	Y 24 0
1. Optimi 7. Water	ize En 1.1 1.2 Heatin 7.1 7.2 Ientia 11.1	tmosphere (EA) (Minimum 0 EA Points Required) nergy Performance Performance of ENERGY STAR for Homes Exceptional Energy Performance 6 IECC climate zone 40 HERS Index ing Efficient Hot Water Distribution System (meet one of the following) a) Structured plumbing system b) Central manifold distribution system Pipe Insulation al Refrigerant Management Refrigerant Charge Test	Max: 38 Prereq. 34 2 C C C C C C C C C C C C C C C C C C	Y:26 24 0 lesign of co 1 Y 1	M:0 0 0 nventional system 0	Y 24 0

Materials	s &	Resources (MR)	(Minimum 2 MR Point	s Required)		Max: 16	Y:10	М:0		Final: 9
1. Material	l-Eff	icient Framing								
	1.1	Framing Order Waste	e Factor			Prereq.	Y			Y
	1.2	Detailed Framing Do	ocuments			1	0	0		0
	1.3	Detailed Cut List and	d Lumber Order			1	0	0		0
		Requirements of MR 1					list and lum	ber order corresponding to framing	nlans or scopes	•
AND/OR	1.4		(meet any of the followi	na see Ratina Sv	(stem for nts)	3	0			0
		Precut framing packag		ng, ooo naang oy		Stud spacing	areater that	an 16" on center		Ū
		Open-web floor trusses				=		ater than 16" on center		
		Structural insulated pa				=				
		Ξ				= .		er than 16" on center		
		Structural insulated pa						ter than 16" on center		
0.5		Structural insulated pa					ollowing: Siz	e headers for loads; ladder blocking		
OR	1.5	Off-site Fabrication ((meet one of the followin	g)		4	4	0 Pre-cut	SIP roof & walls, floor trusses	4
		a) Panelized constructi	tion			b) Modular, p	orefabricated	d construction		
2. Environ	mer	ntally Preferable Prod	lucts							
	2.1	FSC Certified Tropica	al Wood (meet both of the	he following)		Prereq.	Y			Y
		a) Provide suppliers wi	ith a notice of preference for F	SC products; AND		b) All purcha	sed wood is	s either not tropical, FSC-certified, o	reclaimed	
		Request country of	f manufacture for each wood p	roduct		—				
	2.2	Environmentally Pref	ferable Products (meet	any, 1/2 pt each)		8	4.5	0		4
		Assembly : compor	nent	(a) EPP			(b) Low emission	(c) Local production	
		Exterior wall: fran	ning		type:					
		Exterior wall: sidi	ing or masonry		type:		**************			
		Floor: flooring Floor: flooring		(45%)	type: 100% Sealed co			90% hard flooring	(45%)	
		Floor: carpet		(90%)	type: 100% Sealed co	oncrete		SCS FloorScore Green Label Plus	(90%)	
		Floor: framing	***********************************	**************	type:	*****************************	:1:1:1:1:1:1:1:1:			9393
		Foundation: aggr							\square	
		Foundation: ceme			type: Davenport, IA 33	<u>31</u> mi				
		Interior wall: fram			type:					
			ng: gypsum board ng, millwork: paint	statete <mark>r in</mark> platetetetete						222
		Landscape: deck		99999 - 19999999	type:			type: Benjamin		
		Other: cabinet			type: Local field stone type: Low VOC MDF				\sim	
		Other: counter		X	type: Stainless steel 8				aksiaksiaksiaksiaksiaksiaksiaksia	333
		Other: door			type:					
		Other : trim		X	type: Reclaimed Fir					
		Other : adhesive,						type:	<u></u> _	
		Other : window fra Roof: framing	rame	575757575 5 7575757575757575	type:		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
		Roof: roofing			type:					88)
		Roof, floor, wall: i	insulation		type: type:			type:		
		Roof, floor, wall (2	2 of 3): sheathing		type:		.*.*0*0*0*0*0*0*0	*** #C*C*C*C*C*C*C*C*C*C*C <u>*C*C*C*C*C*C*C*C*</u>		

3. Waste Man	agement					
3.1	Construction Waste Management Planning (meet	both of the following)	Prereq.	Y		Y
	a) Investigate local options for waste diversion		b) Document	diversion rate	e for construction waste	
3.2	Construction Waste Reduction (use one of the fol	lowing methods)	3	1.5	0	1
	2.4 a) pounds waste / square foot					
	cubic yards waste / 1,000 square fee	ł				
		l de la construcción de la constru				
	b) percentage of waste diverted					
Indoor Env	ironmental Quality (EQ) (Minimum 6 EQ P	pints Required)	Max: 21	Y:12	M:0	Final: 15
1. ENERGY S	TAR with Indoor Air Package					
1	ENERGY STAR with Indoor Air Package		13	0	0	0
2. Combustio	n Venting					
2.1	Basic Combustion Venting Measures (meet all of	the following)	Prereq.			Y
	a) no unvented combustion appliances		d) space, wa	ter heating eq	uipment designed with closed combustion; OR	
	b) carbon monoxide monitors on each floor				ng equipment has power-vented exhaust; OR	
	c) no fireplace installed, OR				ng equipment located in detached or open-air facility; OR	
	all fireplaces and woodstoves have doors		·		ting equipment with combustion 0	•
2.2			2	0		2
	Type of Fireplace or stove	Better practice (1 pt)			Best practice (2 pts) (must also meet Better Practice)	
	None				granted automatically	
	Masonry wood-burning fireplace	masonry heater			back-draft potential test	
	Factory-built wood-burning fireplace Woodstove and fireplace insert	listed by testing lab and meets EPA listed by testing lab and meets EPA			back-draft potential test back-draft potential test	
	Natural gas, propane, or alcohol stove	listed, power- or direct-vented, fixe			electronic pilot	
	Pellet stove	EPA certified or meets safety require	rements		power- or direct-venting	
3. Moisture C						
3	Moisture Load Control (meet one of the following,		1	0	0	0
	a) Additional dehumidification system		b) Central H	/AC system ec	quipped with additional dehumidification mode	
4. Outdoor Ai	r Ventilation					
4.1	Basic Outdoor Air Ventilation (meet one of the foll	owing)	Prereq.	Y		Y
	a) Located in a climate with \leq 4,500 infiltration degree day	s	c) Intermitte			
10	b) Continuous ventilation	· • • • • • • • • • • • • • • • • • • •	d) Passive ve		0	•
4.2			2	2		2
4.3	a) In climates with ≤ 4,500 infiltration degree days, install Third-Party Performance Testing		b) Install hea	t recovery sys	0	1
4.3	minu-Faily Fenomiance lesung		1	-	U Contraction of the second se	

5. Local	Exha	ust				
	5.1		Prereq.	Y		Y
		a) Bathroom and kitchen exhaust meets ASHRAE Std. 62.2 air flow requirement	C) Air exhaust	ed to outdo	Dors	
		b) Fans and ducts designed and installed to ASHRAE Std. 62.2	d) ENERGY ST	TAR labeled	bathroom exhaust fans	
	5.2	Enhanced Local Exhaust (meet one of the following)	1	0	0	1
		a) Occupancy sensor	c) Automatic t			
		b) Automatic humidistat controller	d) Continuous			
	5.3	Third-Party Performance Testing	1	1	0	1
6. Distri	butior	of Space Heating and Cooling				
	6.1	Room-by-Room Load Calculations	Prereq.	Y		Y
	6.2	Return Air Flow / Room-by-Room Controls (meet one of the following)	1	1	0	1
		A. Forced-Air Systems	B. Nonducted			
		a) Return air opening of 1 sq. inch per cfm of supply	Flow control v	alves on eve	very radiator	
		b) Limited pressure differential between closed room and adjacent spaces				
	6.3	Third-Party Performance Test / Multiple Zones (meet one of the following)	2 D. Nandustad	2	0	2
		A. Forced-Air Systems	B. Nonducted	•		
		Have supply air flow rates in each room tested and confirmed		t two distinc	ct zones with independent thermostat control	
7. Air Fi						
	7.1	Good Filters	Prereq.	Y		Y
	7.2	Better Filters	1	0	0	0
OR	7.3	Best Filters	2	0	0	0
8. Conta	mina	nt Control				
	8.1	Indoor Contaminant Control during Construction	1	1	0	1
	8.2	Indoor Contaminant Control (meet any of the following, 1 pt each)	2	1	0	1
		a) Design and install permanent walk-off mats at each entry	C) Install cent	ral vacuum	system with exhaust to ourdoors	
		b) Design shoe removal and storage space near primary entryway			-,	
	8.3	Preoccupancy Flush	1	1	0	1
9. Rado	n Prot	ection				
	9.1	Radon-Resistant Construction in High-Risk Areas	Prereq.	Y		Y
	9.2	Radon-Resistant Construction in Moderate-Risk Areas	1	0	0	0
			-	, v		

10. Garage P	ollutant Protection		
10.1		Prereq. Y	Y
10.2	-	2 2 0 b) In conditioned spaces next to garage Weather-strip all doors carbon monoxide detectors in rooms that share a door with garage Seal all penetrations and cracks at the base of walls	2
AND/OR 10.3	Exhaust Fan in Garage (meet one of the following)	1 0 0	0
	a) Fan runs continuously	b) Fan designed with automatic timer control	
OR 10.4	Detached Garage or No Garage	3 0 0	0
	& Education (AE) (Minimum 0 AE Points Required)	Max: 3 Y:0 M:0	Final: 2
	of the Homeowner or Tenant	Max: 3 Y:0 M:0	Final: 2 Y
1. Education	of the Homeowner or Tenant	Prereq. Y	
1. Education	of the Homeowner or Tenant Basic Operations Training <i>(meet both of the following)</i> a) Operations and training manual		
1. Education	of the Homeowner or Tenant Basic Operations Training <i>(meet both of the following)</i> a) Operations and training manual Enhanced Training	Prereq. Y b) One-hour walkthrough with occupant(s)	
1. Education 1.1 1.2	of the Homeowner or Tenant Basic Operations Training <i>(meet both of the following)</i> a) Operations and training manual Enhanced Training	Prereg. Y > b) One-hour walkthrough with occupant(s) 1 0	
1. Education 1.1 1.2 1.3	of the Homeowner or Tenant Basic Operations Training (meet both of the following) Image: Ima	Prereq. Y ∑ b) One-hour walkthrough with occupant(s) 1 0	
1. Education 1.1 1.2 1.3	of the Homeowner or Tenant Basic Operations Training <i>(meet both of the following)</i>	Prereq. Y ∑ b) One-hour walkthrough with occupant(s) 1 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

Project Team Leader	Sarah Nettleton	Company	Sarah Nettleton Architects
Signature	and Attack	Date	8/15/10
ly affixing my signature below, the undersigned does hereby dec in the LEED for Homes Rating System, have been completed, an			esting for the LEED for Homes requirements, as spe
Provider QAD	Pat O'Malley	Company	Building Knowledge
Signature			0/0// 0
Signature	mes m. Oproco	Date	9/2/10
y affixing my signature below, the undersigned does hereby dec		d inspections and performance t	
y affixing my signature below, the undersigned does hereby dec the LEED for Homes Rating System, have been completed, an	d will provide the project documentation file, i	S inspections and performance t if requested.	esting for the LEED for Homes requirements, as spi
y affixing my signature below, the undersigned does hereby dec the LEED for Homes Rating System, have been completed, an Green Rater Signature y affixing my signature below, the undersigned does hereby dec	d will provide the project documentation file, i Pat O'Malley MOMONIAN iare and affirm to the USGBC that the require	Company Date	esting for the LEED for Homes requirements, as spo Building Knowledge 9/2/10
By affixing my signature below, the undersigned does hereby dec in the LEED for Homes Rating System, have been completed, an Green Rater	d will provide the project documentation file, i Pat O'Malley MOMONIAN iare and affirm to the USGBC that the require	Company Date	esting for the LEED for Homes requirements, as spo Building Knowledge 9/2/10

LEED for Homes Calculator for Percent Reduction in Outdoor Water Demand

This calculator can be used to determine the percent reduction in outdoor water use (irrigation), and the LEED points earned in SS 2.5 and WE 2.3. This must be completed by a qualified landscape professional. Please review the guidance document, "Guidance on Calculation of Outdoor Water Use Reductions", before using the calculator for the first time.

Notes: 1) SS 2.5 and WE 2.3 address reducing total outdoor water needs. Reducing potable water use outdoors is addressed in Credit WE 1. 2) Credit can only be earned for reducing water use in areas with designed landscape. Existing landscape is not included.

Legend

User input cell

Calculated cell

Step 1: Calculate outdoor water use for baseline case

Enter project address, builder, total landscaped area, reference evapotranspiration rate (ETo, in inches for July), and ETo source.

Note: ETo values are available from the EPA's WaterSense website, which uses data from the International Water Management Institute (IWMI). On the link below, enter the project's zip code, and choose the month of July. ETo values obtained from the ET Manager Scheduler Software from Rainbird are also acceptable. The USGBC thanks these sources for the use of this data.

http://epa.gov/watersense/specs/searchzip.html

Project Address 40790 Waring Road, St. Peter	er, Minnesota		
Total Landscaped Area (sq ft)	75,176	Builder	Swenson Construction
ET_{0} (in/mo for July)	6.95	ET _o Source (e.g., WaterSense)	WaterSense ETo Finder
Baseline Outdoor Water Use (gal/mo)	323,933		

Step 2a: Select appropriate inputs for each zone in the design case

Choose appropriate values for species factor (Ks), microclimate factor (Kmc), irrigation efficiency (IE), and control factor (CF): Divide landscaped area into landscape zones. For each zone, enter the descriptions, and use them to choose a value for each factor. Please refer to the guidance document for more information about how to choose these values.

Notes: 1) Well-designed landscaped areas have zones designed so that all plants within each zone will need the same amount of water. 2) Many projects will have fewer than 8 zones. Leave unused rows blank. 2) For boxes with pull-down menus, choose from the list. Do not type in information. 3) The flyout directions box can be moved by dragging it.

Zone	Description of species	Ks	Description of microclimate	К _{мс}	Type of irrigation installed	WaterSense pro? 3rd-party verif?	# of WE 2.1 measures	IE	Type of irrigation control and % water savings	CF
1	Native Prairie Grass	0.2	Exposed	1.2	None			0.65	None	1
	Beds with native shrubs & perrennials	0.6	Partial Sun	1	None			0.40	None	1
3										
4										
5										
6										
7										
8										

Step 2b: Calculate the outdoor water use for each zone in the design case Enter the area for each landscape zone in square feet.

Zone	Area of zone (sq ft)	Ks	K _{MC}	IE	CF	Water demand (gal/mo)	Water demand (% of total)
1	74,512	0.2	1.2	0.65	1	118550	97
2	664	0.6	1	0.4	1	4292	3
3		0	0		0	0	0
4		0	0		0	0	0
5		0	0		0	0	0
6		0	0		0	0	0
7		0	0		0	0	0
8		0	0		0	0	0
Total	75,176						

Step 2c: Calculate the total outdoor water use for the design case This step is completed automatically. If an error is indicated, the sum of the zone areas does not equal the Total Landscaped Area. Please address this error.

Sum of zone areas = Tot Landscaped Area?	No errors	
Total outdoor water demand (gal/mo):	122842	

Step 3: Calculate the percentage reduction in water demand This step is completed automatically to calculate the reduction in water demand between the design case and baseline case.

Reduction in water demand:	62%
	0270

Step 4: Calculate LEED points This step is completed automatically to calculate the number of points awarded in SS 2.5, WE 2.3, and ID 3.

SS 2.5 points	6
WE 2.3 points	4
ID 3 points (for exemplary performance)	0

Landscape Professional Sign-off

I hereby declare and affirm to USGBC that the above calculation describes the landscape and	Printed Name Sarah Nettleton Company Sarah Nettleton Architects
irrigation system that is installed at the site.	Credential Landscape Design Professional Signature

LEED for Homes Accountability Form

All declarations and affirmations made in this Accountability Form are made to USGBC solely for the purpose of assisting USGBC in determining whether LEED Certification is merited. No such declaration or affirmation can be construed as a warranty or guarantee of the performance of the building.

INSTRUCTIONS: This form is to be completed by the person / organization responsible for the design and/or implementation of one or more of the LEED for Homes credits below.

Step 1. Review the requirements in the LEED for Homes Rating System for each prereq. or credit below.

Step 2. Initial each measure below to indicate that the requirements have been met.

Step 3. Complete the Accountability Sign-off section, including your signature, at the bottom of the form.

Step 4. Return a signed copy to the Provider and/or project team leader.

Project Information	
Home Address: 40790 Waring Road	Return to: Sarah Nettleton, Sarah Nettleton Architects
Builder: Swenson Construction	275 East 4th Street, #620, St. Paul MN
	sn@sarah-architects.com

Areas of Accountability

Innovation and Design Process (ID)	Responsible Party	initial
ID 3.1 Innovation #1: SS 2.5 + SS 2.2 b, c & d are met	Sarah Nettleton	SN
Sustainable Sites (SS)	Responsible Party	initial
SS 2.1 No Invasive Plants: No invasive plant species introduced into the landscape.	Sarah Nettleton	SN
SS 2.5 Reduce Overall Irrigation Demand: Overall outdoor water use was reduced by at least 20% and demonstrated using the method prescribed in the Rating System. All information in the submitted calculations related to outdoor water use is accurate.	Sarah Nettleton	SN
SS 4.1 Permeable Lot: Lot is designed such that at least 70% of the built environment, not including area under roof, is permeable or designed to capture water runoff for infiltration on-site.	initial only appropriate cho	oice(s) below
(4 pts) - 100% of built environment (excluding area under roof) is permeable	Sarah Nettleton	SN
SS 4.3 Management of Runoff from Roof, part (d): The site is designed by a licensed or certified landscape design or engineering professional such that all water runoff from the home is managed through on-site design elements.	Sarah Nettleton	SN
Water Efficiency (WE)	Responsible Party	initial
WE 2.3 Reduce Overall Irrigation Demand: Overall outdoor water use was reduced by at least 45% and demonstrated using the method prescribed in the Rating System. All information in the submitted calculations related to outdoor water use is accurate.	Sarah Nettleton	SN
Awareness & Education (AE)	Responsible Party	initial
AE 1.1 Basic Operations Training: The home's occupant(s) has been or will be provided with an operations and maintenance manual / binder that includes all of items listed in the Rating System. A one-hour walkthrough of the home with the occupant(s), featuring the elements listed in the Rating System, has been or will be conducted.	Sarah Nettleton	SN
AE 1.2 Enhanced Training: Two hours of training for the occupant(s), in addition to the training provided for AE 1.1, has been or will be provided. See Rating System for examples.	Sarah Nettleton	SN
Accountability Sign-off (to be completed by party responsible for the prere	equisites and credits	above)
By affixing my signature below, the undersigned does hereby declare and affirm to the USC requirements, as specified in the LEED for Homes Rating System, have been met for the in provide the necessary supporting documents (drawings, calculations, etc.). Printed Name	GBC that the LEED for Hom ndicated credits and will, if a	audited,

TOT.

Project Role / Title

Signature

Date

LEED for Homes Accountability Form

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INSTRUCTIONS: This form is to be completed by the person / organization responsible for the design and/or implementation of one or more of the LEED for Homes credits below.

Step 1. Review the requirements in the LEED for Homes Rating System for each prereq. or credit below.

Step 2. Initial each measure below to indicate that the requirements have been met.

Step 3. Complete the Accountability Sign-off section, including your signature, at the bottom of the form.

Step 4. Return a signed copy to the Provider and/or project team leader.

Project Informat	ion	and a subject of the sub-	
Home Address:	40790 Waring Road	Return to:	Sarah Nettleton, Sarah Nettleton Architects
Builder:	Swenson Construction		275 East 4th Street, #620, St. Paul MN
			sn@sarah-architects.com

Areas of Accountability

Indoor Environmental Quality (EQ)	Responsible Party	initial
4.1 Outdoor Air Ventilation: One of the following requirements was met:	initial only appropriate choic	e(s) below
 b) Whole-house continuous ventilation system designed and installed that complies with ASHRAE Standard 62.2 requirements; 	Terry Winters	Tw
 5.1 Basic Local Exhaust: All of the following requirements were met: a) Local exhaust systems designed and installed in all bathrooms (including half-baths) and the kitchen to meet the requirements of Section 5 of ASHRAE Standard 62.2. b) Fans and ducts designed and installed to meet the requirements of Section 7 of ASHRAE Standard 62.2. c) Exhaust air is sent to the outdoors (i.e. not to attics or interstitial spaces) d) All single-port bathroom exhaust fans are ENERGY STAR labeled. 	Terry Winters	Tw
6.1 Room by Room Load Calculations: Design calculations were completed (using ACCA Manuals J and D, the ASHRAE Handbook of Fundamentals, or an equivalent computation procedure) and ducts were installed accordingly.	Terry Winters	TW
8.1 Indoor Contaminant Control During Construction: Upon installation, all ducts and vents were permanently sealed to minimize contamination during construction. Any seals were removed after all phases of construction are completed.	Terry Winters	Ter
8.3 Pre-Occupancy Flush: The home was flushed with fresh air prior to occupancy but after all phases of construction are completed. The entire home was flushed for at least 48 total hours, keeping all interior doors open. During the flush, windows were kept open and fan (e.g., HVAC system fan) ran continuously OR the home was flushed with all HVAC fans and exhaust fans operating continuously at the highest flow rate. Additional fans were used to circulate air within the home. The HVAC air filter was replaced or cleaned afterward, as necessary.	Terry Winters	Tw

Accountability Sign-off (to be completed by party responsible for the prerequisites and credits above)

By affixing my signature below, the undersigned does hereby declare and affirm to the USGBC that the LEED for Homes requirements, as specified in the LEED for Homes Rating System, have been met for the indicated credits and will, if audited, provide the necessary supporting documents (drawings, calculations, etc.).

Printed Name	Terry Winters
Project Role / Title	PIMb+HVAC
Signature	Teng (e)mass

Company	Winters PIMb+Htg IN
Date	08-17-2010

LEED for Homes Accountability Form

All declarations and affirmations made in this Accountability Form are made to USGBC solely for the purpose of assisting USGBC in determining whether LEED Certification is merited. No such declaration or affirmation can be construed as a warranty or guarantee of the performance of the building.

INSTRUCTIONS: This form is to be completed by the person / organization responsible for the design and/or implementation of one or more of the LEED for Homes credits below.

Step 1. Review the requirements in the LEED for Homes Rating System for each prereq. or credit below.

Step 2. Initial each measure below to indicate that the requirements have been met.

Step 3. Complete the Accountability Sign-off section, including your signature, at the bottom of the form.

Step 4. Return a signed copy to the Provider and/or project team leader.

Project Information

riujeu monda	IQII	and the second se	
Home Address:	40790 Waring Road	Return to:	Sarah Nettleton, Sarah Nettleton Architects
Builder:	Swenson Construction		275 East 4th Street, #620, St. Paul MN
			sn@sarah-architects.com

Areas of Accountability

Materials & Resources (MR)	Responsible Party	initial
 MR 2.1 FSC Certified Tropical Wood: Both of the following requirements were met: a) All wood product suppliers were provided a notice containing the following elements: i.) a statement that the builder's preference is to purchase products containing tropical wood only if it is FSC-certified; ii.) request for the country of manufacture of each product supplied; and iii.) request for a list of FSC-certified tropical wood products the vendor can supply. b) Any tropical wood used on the project is FSC-certified, reused or reclaimed. 	Lee Swenson	ls
MR 2.2 Environmentally Preferable Products: Qualifying assemblies and components meet the criteria for one or more of the following designations, and all information provided to the Green Rater and all measures listed on the project checklist are accurate:	initial only appropriate che	oice(s) below
 a) Environmentally Preferable Products, including FSC-certified wood products, recycled content, reclaimed content; 	Lee Swenson	St.
b) low emissions, typically low-VOC content;	Lee Swenson	A.
c) Local production, indicating that the product was extracted, processed, and manufactured 4 within 500 miles of the site.	Lee Swenson	H
Indoor Environmental Quality (EQ)	Responsible Party	igitjal
9 Radon Resistant Construction: The home was designed and built with radon-resistant construction techniques as prescribed by EPA, the International Residential Code, Washington State Ventilation and Indoor Air Quality Code or some equivalent code or standard.	Lee Swenson	St

Accountability Sign-off (to be completed by party responsible for the prerequisites and credits above)

By affixing my signature below, the undersigned does hereby declare and affirm to the USGBC that the LEED for Homes requirements, as specified in the LEED for Homes Rating System, have been met for the indicated credits and will, if audited, provide the necessary supporting documents (drawings, calculations, etc.).

Printed Name	Lee Swenson
	. 0
Project Role / Title	Gen, Contractor
Signature	Allan Som

Company	L		S	W	e	n	S	0	n	C	0	n	S	t.	
Date	0	8	-	1	7	-	1	0	-	 -					



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

		Builder Name:		Swenson Construction				
		Project Team Leader:	Sarah	Nettleton, Sarah Nettleton Architects				
		Home Address (Street/City/State):	40790	Waring Road, St. Peter, Minnesota				
Home								
	.			.	.			
• • •	Single detach					I Insulated Panel		
Project type:		# of Bedrooms		Exterior roofing:		-		
Number of stories:	2	Number of full bathrooms	s: 2.5	Garage:	Attached			
Site								
EPA Radon Zone:	1			Type of soil:	Clay			
Terrain / topography:	Rural, flat blu	ıff		Depth of soil to bedrock:	>50 ft			
Predominant landscaping:	Native prairie	grasses		Depth of ground water below structure:	>100 ft			
Common regional pests:	Mice			Proximity to bodies of water?	>1 mile			
Other significant features:	NA			Above FEMA 100-year floodplain?	Yes			
Additional comments:								
Climate								
IECC 2004 Climate Zone:	6			Annual rainfall (inches/yr):	26.7 in/yr			
Heating degree days (HDD):	8072			Annual maximum wind speed (mph):	9 mph			
Cooling degree days (CDD):	693			Avg annual solar radiation (kWh/m ² /day):	4 to 5			
Natural disaster risks:	hurricanes	earthquakes		wildfires				
	tornados	floods		blizzards				
Issues								
Issue Type	Risk	Level		Issue Type	•	Risk Level		
Exterior water:	med	dium		Pests	:	low		
Interior moisture:	med	dium		Heat loss	:	high		
Air infiltration:	hi	igh		Ultraviolet radiation	:	low		
Interstitial condensation:	hi	igh		Other:				



Durability Inspection Checklist Template

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

Builder Name:	Swenson Construction
Project Team Leader:	Sarah Nettleton, Sarah Nettleton Architects
Home Address:	40790 Waring Road, St. Peter, Minnesota

For each risk type below, list the durability strategies used in the home to help mitigate those risks. For each of the high and moderate risk areas indicated in the Risk Evaluation Form, please include at least three strategies. Where necessary, add additional rows. Refer to the Example Durability Strategies page for sample strategies that may be applicable.

Have the builder or trade indicate where the strategy is included in the drawings, specification, or scopes of work, and then sign-off that the durability strategies were incorporated into the home. If ID 2.3 is being pursued, have the Green Rater sign-off that the strategies were verified in the home.

Durability Stratogies by leave Type	Locition in Drawin Specifications, and Scopes of Work		Pasponsible Party film below) credit 0.2.5 (Great Rate)					
Exterior Water / Moisture								
	· · · · · · · · · · · · · · · · · · ·							
SITE		and the second	N					
grade site with positive drainage away from house	L1.1 and Div 2	······································	4					
locate septic downhill to avoid grinder pump	L1.1		S					
Install gutter system and rain barrels to water garden	L1.1 and future	V	K.					
LANDSCAPE			R					
Seed native paririe on 17 acres of the site	L1.2	-	A					
Plant gro low sumac on disturbed slopes to retain soil	L1.2							
Plant native Oaks away from the house	L1 2	V	X					
Provide 2-0 perimeter stip of gravel aournd house and garage	L1.2	~	X					
FOUNDATION AND FLAT WORK								
Provide draintile at foundationperimeter to daylight	L1.1	-	X					
Install 2" rigid insul under slab- tape joints	20/A3.2	~	1 X					
Seal all plumbing, electrical penetrations at walls and floors	ASI 6	1	A					
Backfill with sand and crushed rock	L1.1		X					
Insulate, drainboard and waterproof the foundation	16/A3.2 and Drv 7		K					
Install radon vent	Field report #3		k					
T Mass Foundation system- eliminate rim joist	Div 3							
WALLS			K					
Continuous drainage plane behind siding, flashed	DIV 7 20/A3.2							
Interior slabs stop before ext wall so no moisture	16/A3.2		×					
overhang at eaves	16/A3 2	1						
Flash openings per Lath& Plaster stds	Field notes #12	V	K					
avoid thermal transfer with steel connections	S1.2		2					
minimize thermal transfer with SIPS	16/A3.2		$\mathbf{\hat{x}}$					
No wood ext deck	A2-1		C					
Ext balconies are metal								
EVENDER DE HIGIGI	A 2.1	V	S I					
US Green Building Council	Page 1 of 4		8/13/10					



Durability Inspection Checklist Template

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

LEED	Builder Name:	Swenson Construction	Swenson Construction		
Uscac	Project Team Leader:	Sarah Nettleton, Sarah Nettletor	Architects		
	Home Address:	40790 Waring Road, St. Peter, Minnesota			
11			1		
INDOWS AND DOORS		Dou o	V	K	
t doors- insul metal with storms		DIV B	V	K	
erglass Windows U=.023 and SHGC=.45		ipiv -			
TERIALS SELECTION		2	1.0		
wood in contact with ground		Div 6	12	K	
eated wood sill plates		DN G		~	
ated wood posts at porch			1	N	
materials stored on site in shed or under cover		Div 1	1º	XXXX	
od to concrete seperated by metal connectors		Piv 6		X	
terior - concrete siding and trim		Div 6			
DOF					
ntinous epdm glue down on flat roofs		Div 7	~	X	
ntinuous high temp ice and water under steel		Div 7		KXXX	
eel standing seam roof		Div 7	~	×	
hered and counterfashed details at roof/wall		A3.2 and A3.3		Ar	
ve at all sloped roofs, scupper at parapet		A3.2 and A3.3		2	
upper- 12" projection at flat roof		A12/A3.4		Ŕ	
itters at sloped roofs - RWL to containers		A2.2	V		
erior Water / Moisture					
IV to remove interior moisture build up	(111) (111)	Div 15	V		
materils at site kept dry		Div 1	V	×	
ncrete floors at all wet areas		A1.1 A1.2	har and the second s	~	
rable materials in wet areas- no paper faced drywall		Div 9	V	5	
thes dryer vented to exterior		Div 15	V	A	
carpet in wet areas		A3.2 and A3.3	V	×	
essure test plumbing for leaks		done 7.19.10			
t areas vented with ERV auto programmed		Div 15	C	KK	
por drain in Mechanical room		20/A1.2			
r Infiltration					
al connections at SIPS against mositure migration, tape and	foam	A3.2 and A3.3 and Shop dwg	V	K.	
recessed lighting fixtures in ceiling		AL100	V	K	
eform blower door test to assess leakage rate of envelope		done by NEC on 7.19.10	V	W,	
al all penetrations at foundation wall with foam		Dv 3		K	
erstitial Condensation	and the first statement of the	and the second			
al connections at SIPS against mositure migration tape and	foam	Div 6		R	
nt dryer to exterior		A 20/A1.1	V	<u>x</u>	
al all penetrations at SIPs with foam and or tape		Div 6	V		
A REAL PROPERTY AND A REAL					

US Green Building Council



Durability Inspection Checklist Template (for prerequisite ID 2.1 & 2.2 and credit ID 2.3)

LEED	Builder Name:	Swenson Construction				
USGBC	Project Team Leader:	Sarah Nettleton, Sarah Nettleton Architects				
	Home Address:	40790 Waring Road, St. Peter, Min				
4.8	have	D- 7	IV	IX		
ightly seal foundation penetrations against field mice		Div 7				
leat Loss						
IP walls, R=32		Div 6		K.		
IP ceiling R=48		Div 6		'X		
Mass Foundation R=18 + 4" rigid insul		Div 3 and		K		
eal all SIPS with rubber tape		Div 6		K,		
iberglass windows U=.023		Div 8	V	K,		
bouble glazed glass on S and W for heat gain		Div 8	 	A A A A A A A A A A A A A A A A A A A		
riple gazed glass on N and E for heat loss		Div 8	V	×.		
Provide ERV		Div 15	1			
Provide separately controlled hood make up air		Div 15	K			
Provide circulating pump on domestic hot water		Div 15 and ASI # 4		X		
liminate AC compressor and ducts		Div 15	V	l (Š		
Provide passive solar gain -6.6% of load		Rem Rate Energy Model 10.09 Rem Rate Energy Model 10.09	5	人 众		
Provide thermal heat sink- conc floor				1 ×		
Provide solar thermal array 11.2% load		Rem Rate Energy Model 10.09	V			
				V		
Provide for future mimi-split if needed for AC		ASI # 3				
No recessed lighting in ceiling		AL100		X		
No ductwork outside of conditioned space		Div 15				
Jltraviolet Radiation			13			
Roofing membranes are protected with standing seam me	etal roof	Div 7				
Natural Disasters						
structural connection of roof for tornados		S1.1		K		
annannannannannannannannannannannannann				Magness		
~						
Other			1			
GREEN ARCHITECTURAL DESIGN		A1.1		A		
Narrow footprint efficient floor/walls ratio		A 2.1 Div 5		De .		
Provide sliding sun shades for south facing glass doors		L1.1	V	- X		
Orient house to provide winter gain, summer shade		L1.1		A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O		
Optimal volume- max 13-0 clgs		A3.1	V			



Durability Inspection Checklist Template (for prerequisite ID 2.1 & 2.2 and credit ID 2.3)

LEED Buil	der Name:	Swenson Construction				
Pro	ect Team Leader:	Sarah Nettleton, Sarah Nettleton	Architects			
Hon	ne Address:	40790 Waring Road, St. Peter, Minnesota				
Luxury of enough- 2,600 SF 4 br home		Deutlicht markel	14	K		
Modeled natural daylighting with shading Toward ZERO NET ANNUAL ENERGY USE		Daylight model Rem Rate Energy Model 9.10 L1.1 Div 15		XX		
Active solar thermal array Passive tempered underground ventilation air- Passive solar gain- low SHGC south glass		Div 15 Div086	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	K		
Provision for future solar electric array to get to Zero SERVICE LIFE		L1.1 Div 15	X			
concrete siding -15 year paint life span 50 year metal roof life span		Div 6 Div 7	277	K		
20 year insulated glass life span Builder Declaration for ID prerequisite 2.1	& 2.2	Div 8				
I hereby declare and affirm to USGBC that I have evaluated this project's durability risks, completed the Durability Risk Evaluation Form, and incorporated appropriate durability measures into the design to adequately address the moderate and high risks. The construction drawings and specifications have been updated accordingly, and the the measures were verified to be completed appropriately.		Name: Title: Signature: Date:	Lee Swenson General Contractor 08-17-10			