

New Homes Checklist

Steamboat Springs/Routt County

Owner Name: Scott McFarlane
 Site Address: 27315 Home Ranch Road, Routt County, CO.
 Square Feet: 2,579 New Sq. Ft.
 Designer: Joe Patrick Robbins
 Builder: Snake River Construction(Paul Stoll)

0 PROJECT SCORING TOTAL

Verification
B = Documented on plans/specifications
O = Observed construction
SC = Self Certified
I = Inspect
C/O = Certificate of Occupancy
CSMP = Construction Site Management Plan

	Possible Points	Community	Energy	WCH/Health	Plas./Recs	Water	Review Agency	Item Completed Applicant Initials	
A. Energy									
M - Mandatory									
☐ 1. Meet ENERGY STAR® Performance Path Requirements							3rd party		D & I
a. Complete the ENERGY STAR® Thermal Bypass Inspection Checklist	M		M						
b. For each HERS Index below 80 (Maximum 80 points) Insert HERS Index rating here:	80		80						
Subtotal	O								
OR									
☐ 2. Meet ENERGY STAR® Prescriptive Path Requirements (Compliance Only)							3rd party		D & I
a. Complete the ENERGY STAR® Thermal Bypass Inspection Checklist	M		M						
b. Build to ENERGY STAR® Builder Option Package (BOP) for climate zone 7	M		M						
Total Points Possible in Energy = 80	O								
B. General Requirements									
☐ 1. Incorporate Checklist in Blueprints	M		M				Bldg		D
☐ 2. Develop Homeowner Manual of Green Features/Benefits	M		M				Bldg		D & C/O
Total Points Possible in General Requirements are Mandatory	M								
C. Site									
☐ 1. Protect Native Soil and Minimize Disruption of Existing Plants and Trees	M					M	PWx		D & I @ C/O
☐ 2. Erosion Controls During Construction	M					M	PWx		D & O
☐ 3. Site is Within 1/4 Mile of Public Transportation or 3/4 of a Mile of a Community Center		4					Plan		D
☐ 4. Recycle Green Waste							PWx		D on CSMP & O
a. On Site	2				2				
OR									
b. At Community Compost Center					1				
☐ 5. 100% Excavated Topsoil Reused on Site					1		PWx		SC & O
☐ 6. Use Recycled Content Aggregate (Minimum 25%)							Bldg		D @ C/O w/inscript
a. Walkway and Driveway	1				1				
b. Roadway Base					1				
☐ 7. 35% or More Fly Ash Content in Over 100% of Concrete Used (non foundation)					2		Bldg		D @ C/O w/inscript
☐ 8. Concrete Curing Process does not Include Propane or Additional Energy to Cure	3		3				PWx		SC & O
☐ 9. Pervious Materials							PWx		D
a. 25-50% of Hardscaped Areas	1					1			
b. 50-100% of Hardscaped Areas						3			
☐ 10. No Fossil Fueled Snowmelt System			5				Bldg		D & O
☐ 11. Engineered/Vegetated Scales to Filter Stormwater Runoff	1					1	PWx		D
Total Points Possible in Site = 23	8								
D. Recycle and Reuse									
☐ 1. Deconstruction Plan for Existing Building Demolition	M				M		Plan		D
☐ 2. Recycle Job Site Construction Waste							PWx		O
a. 90% Steel					2				
b. 90% Wood	2				2				
c. 90% Cardboard					2				
☐ 3. Install Built-In Recycling Center							Bldg		D & O
a. Built-In Recycling Center	3				2				
b. Built-In Composting Center					3				
☐ 4. Recycled Concrete or Asphalt						1	None		D @ C/O w/inscript
Total Points Possible in Recycle and Reuse = 12	5								
E. Foundation									
☐ 1. Pre-Pipe Under Slab for Radon Resistant Construction	M				M		Bldg		D & I
☐ 2. Replace Portland Cement in Concrete with Recycled Flyash (Western coal) in Foundation							Bldg		D @ C/O w/inscript
a. Minimum 20% Flyash	M				M				
b. Minimum 25% Flyash					1				
☐ 3. Conditional Crawlspace	2				2		Bldg		D & O
☐ 4. Insulate Heated Garage Slabs & Perimeter (Min of R10)	2		2				Bldg		D & O
☐ 5. Frost-Protected Shallow Foundation (FPSF)			2				Bldg		D & O
☐ 6. Non-asphalt Based Water Proofing	1					1	None		SC & O
Total Points Possible in Foundation = 8	5								

Site Address:

Square Feet:

Designer:

Builder:

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F. Structural Frame & Building Envelope

	Possible Points							
☐ 1. Design Energy Ribs on Trusses (120% of Attic Insulation Height at Outside Edges of Truss Wall)	M	M				Bldg		D & O
☐ 2. Low VOC Caulk and Construction Adhesives (<70 gpl VOCs) used for All Adhesives	M		M			None		SC & O
☐ 3. Structure Wrapped with an Exterior Drainage Plane Barrier to Manufacturer's Specifications	M	M				Bldg		D & O
☐ 4. Sill Plate Sealed with Foam Sill Sealer	M	M				Bldg		O
☐ 5. Simple Footprint						Bldg		D & O
a. 10 Corners or Less		1	1					
b. 8 Corners or Less		2	2					
c. 6 Corners or Less		3	3					
d. 4 Corners or Less		4	4					
☐ 6. Building Envelope Dimensions in 2 Foot Increments	1			1		Bldg		D
☐ 7. All Framing Members Shown on Drawings in Plan and Section for Advanced Framing	1			1		Bldg		D
☐ 8. Design Roof Trusses to Accommodate Ductwork Under Insulation	1	1				Bldg		D & O
☐ 9. Materials Manufactured Regionally/Locally						Bldg		D @ C/O w/ receipt
a. 20% within 500 miles of Routt County				2				
OR b. 20% from Routt County		2		2				
☐ 10. Optimal Value Engineering or Advanced Framing (Min. 5 Points)						Bldg		D & O
a. All roof and floor loads stacked over studs	1			1				
b. 2x6 Studs at 24-inch On Center Framing	1			1				
c. Two-end Insulated Corners	2		2					
d. Door and Window Headers Sized for Load	.5			.5				
e. Insulated headers (8-10 min.) installed on all exterior walls	2		2					
f. Use Only Jack and Cripple Studs Required for Load	.5			.5				
g. Trusses replacing rafters for 90% of roof area				2				
h. Insulate partition wall intersections during construction	2		2					
i. Ladder blocking for partition intersections	1			1				
☐ 11. Salvaged or Reclaimed Structural Materials						Bldg		D @ C/O w/ receipt
a. 5% of the structural materials	2			2				
OR b. 10% of the structural materials				3				
☐ 12. Engineered Lumber for 90% of Framing						Bldg		D @ C/O w/ receipt
a. Beams and Headers	2			2				
b. Wood Joists or Web Trusses for Floors	1			1				
c. Wood Joists for Roof Rafters	2			2				
d. Engineered or Finger-Jointed Studs for Vertical Applications				1				
☐ 13. Beetle Kill Pine Salvaged Wood for Studs		2		3		Bldg		D @ C/O w/ receipt
☐ 14. FSC-Certified Wood						Bldg		D @ C/O w/ receipt
a. Dimensional Studs: Minimum 40%	2			2				
b. Dimensional Studs: Minimum 70%				3				
c. Panel Products: Minimum 40%				2				
d. Panel Products: Minimum 70%	3			3				
☐ 15. Solid Wall Systems (Includes SIPs, ICFs, & Any Non-Stick Frame Assembly)						Bldg		D & I
a. Floors			7					
b. Walls			8					
c. Roofs			9					
☐ 16. OSB for Subfloor				1		Bldg		D & O
☐ 17. OSB for Sheathing				1		Bldg		D & O
☐ 18. Install a Rain Screen Wall System	2			2		Bldg		D & O
☐ 19. Roof Design Includes Overhang						Bldg		D & O
a. Minimum 24-inch Overhang				1				
b. Minimum 30-inch Overhang	2			2				
☐ 20. Recycled-Content Steel Studs used for 90% of Interior Wall Framing Only				2		Bldg		D & O
☐ 21. All Closet Headers Flat Framed	1			1		Bldg		D & O
Total Points Possible in Structural Frame & Building Envelope = 86								

G. Exterior Finish

	Possible Points							
☐ 1. Select Durable and Non-Combustible > 30 year Roofing Materials	M		M			Bldg		D & O
☐ 2. Recycled-Content (No Virgin Plastic) Decking for all non-structural Decking	3		3			Bldg		D @ C/O w/ receipt
☐ 3. FSC-Certified Wood Decking			2			None		D @ C/O w/ receipt
☐ 4. Durable and Non-Combustible Siding Materials used on over 50% of Wall Surface	2		2			Bldg		D & O
☐ 5. FSC Certified Cedar Siding			1			None		D @ C/O w/ receipt
☐ 6. Beetle Kill Pine Salvaged Wood for Siding		1	1			None		D @ C/O w/ receipt
☐ 7. Stone Exterior Finish Quarried within 500 Mile Radius	1	1		2		None		D @ C/O w/ receipt
☐ 8. Reclaimed Exterior Trim/Siding	1			1		None		D @ C/O w/ receipt
☐ 9. Recycled Content Roofing for 50-100% of Roof						None		D @ C/O w/ receipt
a. Recycled Content				1				
OR b. 75% Recycled Steel Roofing				2				
☐ 10. Vegetated Roof for 20% or More of Roof Area				5		None		D & O
☐ 11. Recycled and/or Recovered content Fascia, Soffit and Trim				1		None		D @ C/O w/ receipt

Site Address: _____
 Square Feet: _____
 Designer: _____
 Builder: _____

☐ 12. Fiber Cement Fascia and Soffit

Total Points Possible in Exterior Finish = 19

Points Earned	Community	Energy	IAQ/Health	Resources	Water	Review Agency	Team Completed Applicant Initials	SC = Self Certified
								I = Impact
								CO = Certificate of Occupancy
								CSMP = Construction Site Management Plan
								D & O

Site Address:

Square Feet:

Designer:

Builder:

							SC = Self Certified		
	Possible Points	Community	Energy	WQ/Health	Resources	Water	Review Agency	Item Completed Applicant Initials	I = Inspect
									C/O = Certificate of Occupancy
									CSMP = Construction Site Management Plan
H. Windows and Doors									
Possible Points									
☐ 1. Design Entry with Airlock	2						Bldg		D & O
☐ 2. R-5 Insulated Exterior Doors	2						Bldg		D & O
☐ 3. Recycled and/or Recovered Content Interior Doors (100%)	1				1		None		D @ C/O w/receipt
☐ 4. Insulating Window Shades Installed (> 75% of all exterior windows R-3 or higher)	1		1				None		D @ C/O w/receipt
Total Points Possible in Windows and Doors = 6									
I. Plumbing									
Possible Points									
☐ 1. Install R-15 Insulated Tank Water Heaters If Tank Heaters are Used	M	M					Bldg		D & O
☐ 2. Distribute Domestic Hot Water Efficiently (Min 3 gph)							Bldg		D & O
a. Insulate All Hot Water Pipes with R-6 or better	1		1						
b. Insulate Cold Water Pipes 8' far from the Water Heater with R-6 insulation	1		1						
c. Use Central Core Plumbing (trunk and branch)	1				1				
d. Use Structured Plumbing with Recirculation Loop and On Demand Pump	2		2						
e. Use Engineered Pex/Pipe Piping						1			
☐ 3. Drain Waste Heat Recovery Systems			2				Bldg		D & O
☐ 4. Install Only High Efficiency Toilets (Dual-Flush or <1.1 gpf)	3					1	None		D & O
☐ 5. Composting Toilets						5	Bldg		D & O
☐ 6. <2.0 gpm or Low Showerheads Installed	3					1	None		SC & O
☐ 7. Grey Water Reuse for Toilets						1	Bldg		D & O
☐ 8. Side-arm Hot Water Heater	1		1				None		D & O
☐ 9. Faucets Fitted with Aerator Restricting Flow to 2.0 gpm	1					1	None		SC & O
☐ 10. Install Real Time Water Use Read Out	5					5	None		D & O
Total Points Possible in Plumbing = 28									
J. Heating, Ventilation & Air Conditioning									
Possible Points									
☐ 1. Install Carbon Monoxide Alarm(s) (look for Canada CSA Standard)	M	M					None		D & O
☐ 2. Ground-source Heat Pump			5				Bldg		D & O
☐ 3. Install Zoned, Hydronic Radiant Heating with Slab Edge Insulation	3		3				Bldg		D & O
☐ 4. Install Sealed Combustion Units							Bldg		D & O
a. Furnaces	2		2						
b. Water Heaters	2		2						
c. Boilers	2		2						
☐ 5. Mechanical Equipment Centrally Located	1		1				Bldg		D & O
☐ 6. Sealed Mechanical Rooms for Non-sealed Combustion Units	1		1				Bldg		D & O
☐ 7. Install High Efficiency HVAC Filter (MERV 6-11)	1		1				Bldg		D & O
☐ 8. Gas Fireplaces							Bldg		D & O
a. None			2						
b. Install Sealed Gas Fireplaces with Efficiency Rating Exceeding 60%	1		1						
☐ 9. Install Effective Exhaust Systems in Bathrooms and Kitchens							Bldg		D & O
a. Install ENERGY STAR® Bathroom Fans Vented to the Outside	1		1						
b. All Bathroom Fans Are on Timer or Humidistat	2		2						
c. Install Kitchen Range Hood Vented to the Outside	1		1						
☐ 10. Install Mechanical Fresh Air Ventilation System (Maximum 3 Points)							Bldg		D & O
a. Install Whole House Fan with Variable Speeds			1						
b. Automatically Controlled Integrated Ventilation System			2						
c. Automatically Controlled Integrated System with Variable Speed Control	3		3						
d. Any Whole House Ventilation System That Meets ASHRAE 62.2			2						
e. Install Air-to-Air Heat Exchanger that meets ASHRAE 62.2			3						
Total Points Possible in Heating, Ventilation & Air Conditioning = 73									

Site Address:

Square Feet:

Designer:

Builder:

	Possible Points	Community	Energy	IAQ/Health	Resources	Water	Review Agency	Item Completed Applicant Initials	SC = Self Certified
K. Electrical									
Possible Points									
☐ 1. Exterior Lighting Minimized (5500 lumens or less) to Meet International Dark Sky Association Standard for Nighttime Light Pollution	M	M					Plan		SC & O
☐ 2. Hard-wired Fixtures are Supplied with ENERGY STAR®-qualified Self-ballasted CFLs Prescriptive Path: a. 10% of all installed fixtures are supplied with bulbs that meet the requirement b. 20% of all installed fixtures are supplied with bulbs that meet the requirement	M		M	1			None		SC & O
☐ 3. Lighting Efficiency Packages Prescriptive Path: a. 50% of total number of fixtures in interior rooms are ENERGY STAR®-qualified b. 50% of total number of outdoor fixtures are ENERGY STAR®-qualified OR Prescriptive or Performance Path: c. Comply with the ENERGY STAR® Advanced Lighting Package (ALP)	2 2		2 2				None		SC & O
☐ 4. Natural Day Lighting a. Design for high use rooms to be on the South facing side of home b. Design for medium/low use rooms to be on North side of home	2 2		2 2				Bldg.		D & O
☐ 5. Light Tubes (Points per light tube, Max 6 points)			2				Bldg.		D & O
☐ 6. Efficient Light Controls a. Install dimmers b. Install motion detecting light switches	1 1		1 1				None		O
☐ 7. LED Lighting	2		2				None		SC & O
☐ 8. Real-time Electrical Load Out			5				None		D & O
Total Points Possible in Electrical = 27									
L. Insulation									
Possible Points									
☐ 1. Inspect Quality of Insulation Installation before Applying Vapor Barrier	M	M					3rd party		I
☐ 2. Install Batt Insulation with no Added Formaldehyde (> 50% of all insulation) a. Walls and/or Floors b. Ceilings			2 2				3rd party		I
☐ 3. Install Insulation with 75% Recycled Content a. Walls b. Ceilings			2 2				None		D @ C/O w/receipt
☐ 4. Blown/Spaced Insulation (> 50% of all insulation) a. Walls b. Ceilings	2 2		2 2				3rd party		I
☐ 5. HCFC-free Rigid Foam Insulation	2		2				3rd party		SC
Total Points Possible in Insulation = 10									
M. Renewable Energy									
Possible Points									
☐ 1. Sun tempered Design	2		2				Bldg.		D & O
☐ 2. Passive Solar Space Heating That Includes: A) South facing glazing, B) Properly sized overhangs and C) Installation of appropriately sized thermal mass for glazing a. ≥10% of Home Heating Load b. ≥25% of Home Heating Load c. ≥40% of Home Heating Load	4 4 4		4 8 12				Bldg.		D & O
☐ 3. Passive cooling a. Vertical shading devices for east and west-facing glass And/Or b. Reflective films on east and west-facing glass or use windows with a SHGC of less than 0.45 And/Or c. Radiant heat reflective barriers installed in attic	1 1 1		1 1 1				Bldg.		D & O
☐ 4. Provide 200ft² of South-Facing Roof			1				Bldg.		D & O
☐ 5. Pre-Plumb for Solar Hot Water Heating	2		2				Bldg.		D & O
☐ 6. Install Wiring Conduit for Future Photovoltaic Installation			2				Bldg.		D & O
☐ 7. Install Solar Water Heating System			10				Bldg.		D & O
☐ 8. Install Photovoltaic (PV) Panels a. 30% of electric needs OR 1.2 kw b. 60% of electric needs OR 2.4 kw c. 90% of electric needs OR 3.6 kw	4 4 4		4 6 8				Bldg.		D & O
☐ 9. Purchase of 100% Renewable Power a. Local/Other Utility b. Generated Within Routt County			2 6				Bldg.		D @ C/O w/receipt
☐ 10. Pellet Stove (rated for 2.0 grams per hour of particulate or less)			1				Bldg.		D @ C/O w/receipt
Total Points Possible in Renewable Energy = 40									

Square Feet

Designer:

Builder

N. Floor

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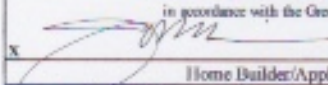
Site Address: _____
 Square Feet: _____
 Designer: _____
 Builder: _____

	Points Earned	Community	Energy	IAQ/Health	Resources	Water	Review Agency	Item Completed Applicant Initials	SC = Self Certified
P. Landscaping									
Possible Points									
☐ 1. Fire-Safe Landscaping Techniques per FireWise							Fire		O
a. No surface vegetation within 15 feet of building	1	1							
b. Thinning of fuels surrounding home	1	1							
c. Ladder fuels removed up at least 6 feet from the ground	1	1							
d. Defensible space around home	1	1							
Passive Solar Landscape Design									
☐ 2. Plant Shade Trees							Plan		O
a. All New Plants Have Trunk, Base, or Stem Located At Least 36 Inches from Foundation	2		2						
And b. Landscaping that Shades 75% of East and West Facing Glazing During the Summer Season (June-August)			2						
☐ 3. Design Vegetative Wind Breaks or Channeled as Appropriate to Local Conditions	2		2						
Xeriscaping									
☐ 4. Addition of Compost to and Aeration of Soil	1					1			
☐ 5. Compost from Local Landfills					1				
☐ 6. Mulch All Planting Beds to the Greater of 2 Inches	1					1			
☐ 7. Construct Water-Efficient Landscapes							None		SC & O
a. No Invasive Species Are Planted	M					M			
b. 75% of Plants Are Native species	2					2			
☐ 8. Group Plants by Water Needs (Hydrozoning)	2					2	None		SC
☐ 9. Minimize Turf Areas in Landscape Installed by Builder							Plan		D & C/O w/except
a. All Turf Will Have a Water Requirement Less than or Equal to Tall Fescue, Buffalo Grass, Blue Grama	M					M			
b. Turf Shall Not Be Installed on Slopes Exceeding 10% or in Areas Less than 8 Feet Wide	1					1			
c. Turf is ≤33% of Landscaped Area (Not to Exceed Footprint of Home)						2			
d. Turf is ≤10% of Landscaped Area (Not to Exceed Footprint of Home)	3					3			
☐ 10. Install High-Efficiency Irrigation Systems							Plan		SC & O
a. System Uses Only Low-Flow Drip, Bubblers, or Low-Flow Sprinklers	M					M			
b. Rain sensor installed on irrigation system	1					1			
OR c. System Has Smart (Weather-Based) Controllers	1					1			
☐ 11. Site-rock Reclaimed							None		SC & O
a. Reused on Site	1					1			
b. All Rock Kept on Site	2					2			
☐ 12. 50% Salvaged or Recycled-Content Materials used for 50% of Non-Plant Landscape Elements	2					2	None		SC/O
Total Points Possible in Landscaping = 27									
Q. Innovation									
Possible Points									
☐ 1. Alternative Fuel Infrastructure for Vehicle Use							None		D & O
☐ 2. Innovation By Design	2						None		D & O
Total Points Possible in Innovation = 10									

Total Points Possible = 444

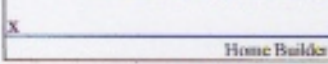
PROJECT SCORING TOTAL 173

By my signature, I certify that I do not wish to proceed in accordance with the Green Building Program Guidelines.

X  7/26/2020
 Home Builder/Applicant Signature and Date

or

By my signature, I certify that I wish to proceed with the program and will perform all Action Items checked above in accordance with the Green Building Program Guidelines.

X 
 Home Builder Signature and Date

and

By my signature, I certify that I have performed all Action Items checked above in accordance with the Green Building Program Guidelines. (to be signed at time of C.O.)

X 
 Home Builder Signature and Date