

L'ADU.

A privacy-focused, introspective, energy-efficient, and all-electric ADU for the town of Kingston

RFP # K23-15 | Category: Professionals

DEMO Architecture PLLC

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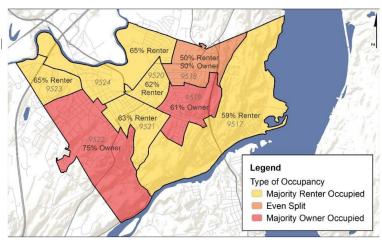
And pricing help from: Seamus McCance - Seamus Build, LLC Marc Crudele - Guardian Structural Technologies

A Self-Sufficient and Self-Contained Design

Kingston's housing stock is equally distributed between renter-occupied households (53%) and owner-occupied households (47%)¹

The success of the ADU program is mainly dependent upon convincing owners to install a new structure in their backyard without disrupting their habits or reducing the value of their rental properties.

How to design an ADU attractive for owners and renters?



Source: U.S. Census Bureau - 2018 American Community Survey

A recent study² on the public reaction

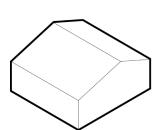
to the ADU regulations proposed for the city of Sacramento offers some light on what owners and renters alike might fear. When questioned about why they would not want an ADU, homeowners put privacy and neighbors' concerns immediately after the inevitable logistical issues.

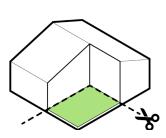
We asked ourselves how to design a building that would not revolutionize the relationship of owners and renters with their backyards and the privacy of their spaces.

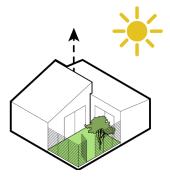
We developed an inward-looking ADU wrapped around a private patio with a few clerestory windows on its sides and back.

The roof is broken into two asymmetrical gables, allowing the installation of solar panels on the steeper slope and opening more clerestory windows lighting up the living room.

The result is a building that defines its interior and exterior space without disturbing the building owners' private yards and habits.

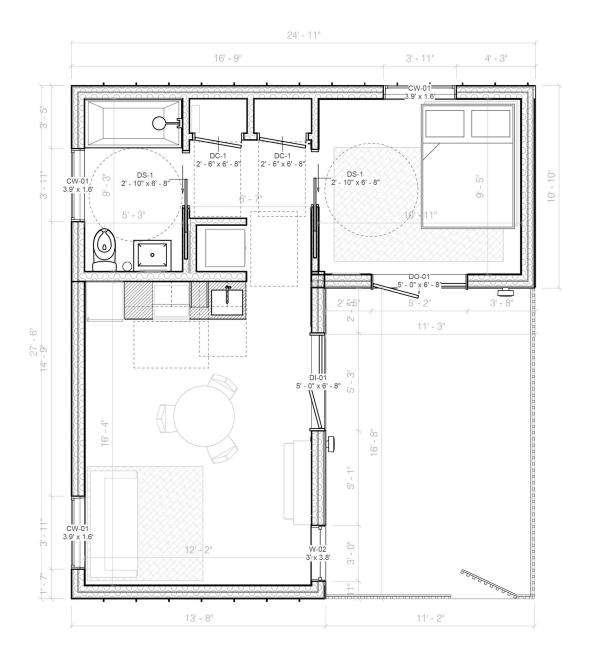






¹ Hudson Valley Pattern for Progress (2020) A plan for redevelopment: The City of Kingston's Vacant and Abandoned Properties.

² Jamey M. B. Volker & Susan Handy (2023) Exploring Homeowners' Openness to Building Accessory Dwelling Units in the Sacramento Metropolitan Area, Journal of the American Planning Association, 89:1, 45-60



L'ADU: Dimension plan



L'ADU: Exploded Axonometric View

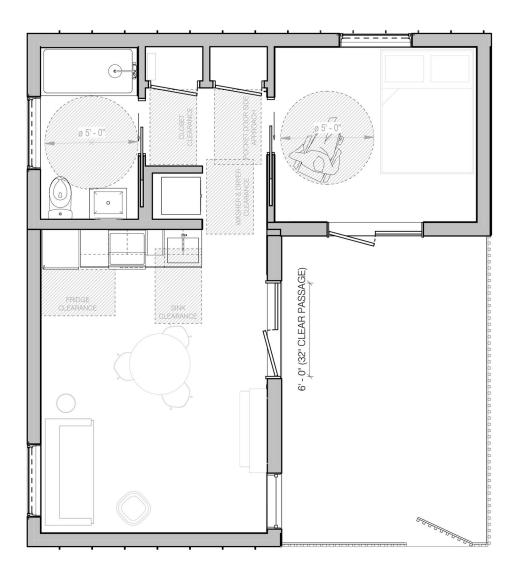


L'ADU: View From the Bedroom L'ADU: View From the Yard

Accessibility

We designed every space with accessibility in mind. The linear kitchen has plenty of room for maneuvering.

Bathrooms, corridors, and doors all meet the minimum ADA requirements for circulation. The washer, dryer, and closet are also located so that this small dwelling meets accessibility requirements despite its small footprint.



L'ADU: Accessibility Plan

Sustainability and Resilience

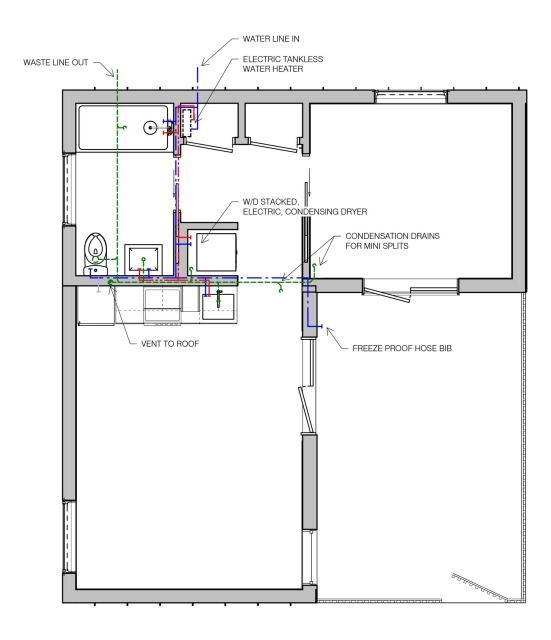
We designed L'ADU as an all-electric building that optimizes and minimizes mechanical systems and meets the Energy Star and Indoor AirPLUS requirements.





The kitchen backs against the bathroom and W/D closet, minimizing pipes run and wasted heat. Only one waste line runs below grade, and only one vent perforates the roof.

A wall-mounted tankless electric heater provides domestic hot water. While more expensive than a traditional tank heater, this system uses considerably less space and, for homes that use 41 gallons or less of hot water daily, can be 24%-34% more efficient than conventional systems³.

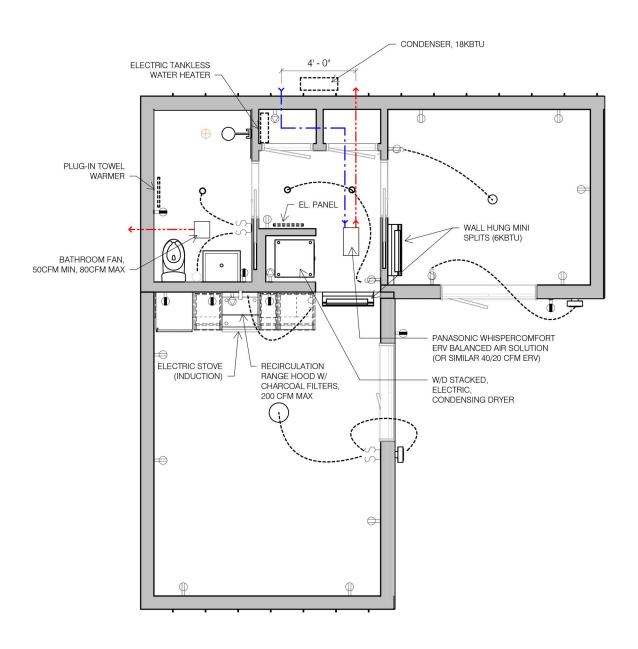


³ https://www.energy.gov/energysaver/tankless-or-demand-type-water-heaters

The building is heated and cooled by two 6kBTU ductless heat pumps. The bathroom will have a wall-mounted, plug-in electric towel warmer for freezing days.

The envelope is detailed to meet and surpass the 0.4 cfm/sqft @75Pa leakage rate indicated in the code and, with the proper craft, meet the Passive House rate (0.04 cfm/sqft).

We installed a ceiling-mounted whole-house ERV to maintain air quality and reduce conditioning costs. The bathroom has a user-activated fan to remove stale, humid air quickly. All equipment is readily available, Energy Star rated, and suitable for a small building.



L'ADU is solar-ready and could achieve Net-Zero by installing five 400W solar panels. The orientation and the shading will play a role in achieving this goal, and a professional should evaluate each instance.

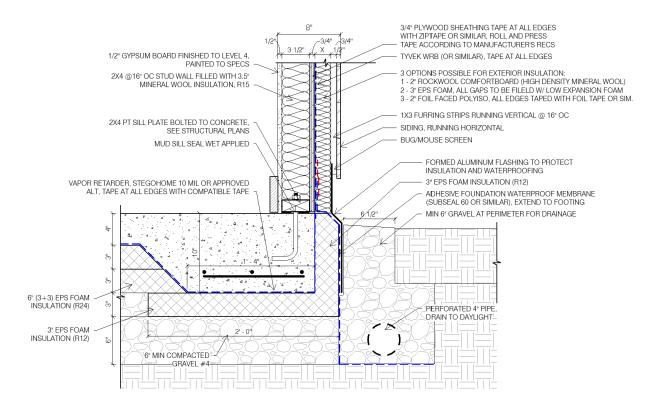


Affordability and Cost-Effectiveness

This building can achieve outstanding performance using best practices and available materials. Our envelope design reduces cost and makes the construction of L'ADU accessible to a vast pool of contractors and do-it-yourselfers.

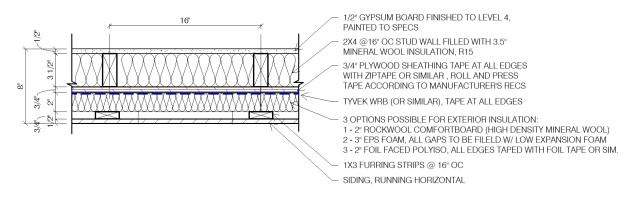
The building sits on a concrete slab-on-grade, the insulation acts as formwork, and lumber work is minimal. The concrete has a hand-trowel finish that will be exposed.

Owners can easily customize their ADUs by adding wood or synthetic floors directly above it.

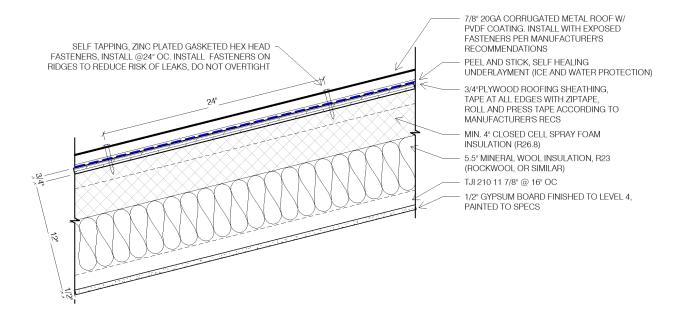


The walls are standard 2x4 @ 16" OC. Taping the plywood sheathing and then the WRB membrane guarantees air tightness.

Walls are insulated with mineral wool on the interior and a continuous insulation layer on the exterior. We offer three interchangeable materials for exterior insulation: all three allow the wall to breathe correctly and dry any humidity within the walls.



For the cathedral roof, we proposed TJIs, a thermal-bridge-free structure. A layer of closed-cell spray-foam insulation removes the risk of condensation. Mineral wool helps exceed the minimum code requirements.



Construction Cost

Traditional Stick-Built

The cost is based on a mix of historical data from recent projects, bids from subcontractors, and the price of readily available material.

The products linked are suggestions to prove the numbers are realistic; all products can be substituted as desired.

The Cost includes estimated permitting fees and the profit of the GC.



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Division 01 — General Require	ement	\$19,120	0
Pre-Construction		Permits and coordination with Town	
Dumpster + Toilet	\$2,000	material- dumpster (estimated 3 months construction)	
GC fees and insurance	\$16,320	Estimated at 15% of construction costs with the exclusions of Fixtures and Equipment (provided by owner)	,
Division 02 - Site Works		\$6,500	0
Foundations excavation	\$4,500	Excavation work slab, utilities, grading	
Electrical and plumbing excavation	\$2,000	Connection to existing utilities	
Division 03 - Concrete		\$4,600	0
Foundations	\$4,600	Slab on grade with haunch, rebar, hand trowel finish	
Division 05 — Metals		\$8,300	0
Roofing	\$8,300	Clip-on standing seam metal roof, installed	
Division 06 - Wood and Plas	tics	\$20,100	0
Framing	\$8,000	material-	
Framing	\$10,00 O	labor-	
Patio	\$2,100	material & labor- fence approx \$75 a foot	
Division 07 — Thermal and Moisture		Protection \$16,100	0
Insulation - Walls	\$1,600	material- Mineral wool (interior of perimeter walls) !
Insulation - Walls	\$4,000	material - Polyiso insulation (exterior walls)	1
Insulation - Roof	\$1,200	Material - mineral wool (roof)	1
Insulation - Roof	\$2,800	material and labor closed cell spray foam (roof)	
Insulation- Labor	\$4,500	labor-	
WRB installation	\$2,000	Material and labor	
Division 08 - Doors and Wine	dows	\$10,76	8
Exterior door (material)	\$2,256	(1x) Jeld Wen (or similar) Fiberglass Inswing door 72x80	1
Exterior door (material)	\$2,090	(1x) Jeld Wen (or similar) Fiberglass Outswing doo 60x80	r !
Window (material)	\$1,108	(1x) Jeld Wen (or similar) vinyl Casement 36x48	Ī
Window (material)	\$1,524	(3x) Jeld Wen (or similar) vinyl Awning 36x18 (\$508/each)	I
Window (material)	\$590	(2x) Jeld Wen (or similar) vinyl Picture 36x18 (\$295/each)	Ī
Doors (material)	\$2,000	interior doors - 2 swing, 2 pocket @ \$500 each	

\$139,465

Total cost of construction

Stick built framing

Windows & Doors	\$1,200	labor- install exterior and interior	
Division 09 — Finishes		\$23,600)
Drywall	\$1,000	material-	
Drywall	\$2,500	labor-	
Painting	\$2,500	subcontractor-	
Siding	\$7,600	material-approx \$8 sq/ft	
Siding		labor- siding approx \$8 sq/ft	
Trim		material and labor approx \$5 sq/ft	
Tiling - Shower		Tiles \$5/sqft (Daltile or similar) + Grout and misc.	
Tiling		Labor	
Division 11 - Equipment	+-,	\$5,338	3
Kitchen	\$508	Frigidaire 11.6 cu. Ft. 24" wide	LINK
Kitchen		Frigidaire Induction Range or similar	LINK
Kitchen		Microwave with recirculating fan	LINK
Washer and Dryer		LG 24" Stacked Washer and Condensing Dryer	<u>LINK</u>
Tankless Water heater	\$656	Stiebel Eltron Tempra 20 Plus or similar tankless electric	LINK
Division 12 - Furnishings		\$6,204	4
Kitchen - cabinets	\$798	Ikea Enhet cabinets and doors (includes upper cabinets and hardware)	LINK
Kitchen - cabinets Installation	\$1,760	Labor, 2 laborers, 2 days	
Kitchen - Faucet	\$129	Ikea Almaren Faucet or similar	LINK
Kitchen - Sink	\$149	lkea Havsen sink or similar	<u>LINK</u>
Kitchen - Countertop	\$1,500	labor and material- butcher block	
Bathroom - Faucet	\$226	Kohler tempered or similar	LINK
Bathroom - Vanity	\$299	Glacier Bay Everdean vanity w/ sink, 24"	LINK
Bathroom - Tub	\$596	Duravit 60" skirt alcove bathtub or sim	LINK
Bathroom - Toilet	\$334	Duravit 219601 Elongated toilet or sim	LINK
Bathroom - Tub and Shower system		Kohler tempered or similar	LINK
Bathroom - Towel warmer		Anzzi 4 bar or similar	LINK
Division 15 — Mechanical/Plumbing		\$12,83!	5
Plumbing	\$3,500	Rough in and trim out	
HVAC installation	\$6,000	Heat pump. 2x wall-hung mini splits + condenser	
HVAC equipment	\$2,758	Mitsubishi (or similar) 6+6kBTU + 18kBTU condenser	LINK
Bathroom fan		Panasonic WhisperRemodel or similar	LINK
ERV	\$479	Panasonic WhisperComfort or similar	LINK
Division 16 — Electrical		\$6,000	
Electrical	\$4,000	Roough in and trim out	
Lighting fixtures	\$2,000	Accent lighting fixtures allowance	

Construction Cost

GST Panelized Construction

We considered alternative pricing using a panelized system from Guardian Structural Systems (GST). This is a proprietary system: we do not recommend using this manufacturer over a different company. Still, we think there can be an economic benefit in using panels to streamline construction and improve the performance of L'ADU.

GST's panels are composed of EPS foam sandwiched between steel studs. The system is thermal-bridge free, economical, and lightweight. It can be installed rapidly by a small crew without specialty equipment.



T2x80 Exterior door (material) \$2,090 (1x) Jeld Wen (or similar) Fiberglass Outswing door 60x80 Window (material) \$1,108 (1x) Jeld Wen (or similar) vinyl Casement 36x48 Window (material) \$1,524 (3x) Jeld Wen (or similar) vinyl Awning 36x18 (\$508/each)	Division Ol Garage Bassina	mon!	\$10.000	•
Dumpster + Toilet \$2,000 material- dumpster (estimated 3 months construction) Estimated at 15% of construction costs with the exclusions of Fixtures and Equipment (provided by owner) Division 02 – Site Works Foundations excavation Electrical and plumbing excavation Electrical and plumbing excavation Electrical and plumbing excavation S2,000 Connection to existing utilities Division 03 – Concrete Foundations \$4,600 Slab on grade with haunch, rebar, hand trowel finish Division 05 – Metals Roofing \$8,300 Clip-on standing seam metal roof, installed Division 06 – Wood and Plastics Framing (interior only) \$1,200 material- Framing (interior only) \$2,000 labor- Patio \$2,000 Material & labor- fence aprrox \$75 a foot Division 07 – Thermal and Moisture Protection WRB installation \$2,000 Material and labor Division 08 – Doors and Windows Exterior door (material) \$2,000 (tx) Jeld Wen (or similar) Fiberglass Inswing door 72x80 Exterior door (material) \$1,000 (tx) Jeld Wen (or similar) Fiberglass Outswing door 60x80 Window (material) \$1,000 (tx) Jeld Wen (or similar) vinyl Casement 36x48 Window (material) \$5,000 (2x) Jeld Wen (or similar) vinyl Awning 36x18 \$5,000 (xx) Jeld Wen (or similar) vinyl Awning 36x18 \$5,000 (xx) Jeld Wen (or similar) vinyl Picture 36x18 \$5,000 (xx) Jeld Wen (or similar) vinyl Picture 36x18 \$5,000 (xx) Jeld Wen (or similar) vinyl Picture 36x18 \$5,000 (xx) Jeld Wen (or similar) vinyl Picture 36x18 \$5,000 (xx) Jeld Wen (or similar) vinyl Picture 36x18 \$5,000 (xx) Jeld Wen (or similar) vinyl Picture 36x18 \$5,000 (xx) Jeld Wen (or similar) vinyl Picture 36x18 \$5,000 (xx) Jeld Wen (or similar) vinyl Picture 36x18 \$5,000 (xx) Jeld Wen (or similar) vinyl Picture 36x18 \$5,000 (xx) Jeld Wen (or similar) vinyl Picture 36x18 \$5,000 (xx) Jeld Wen (or similar) vinyl Picture 36x18 \$5,000 (xx) Jeld Wen (or similar) vinyl Picture 36x18 \$5,000 (xx) Jeld Wen (or similar) vinyl Picture 36x18 \$5,000 (xx) Jeld Wen (or similar) vinyl Picture 36x18 \$5,000 (xx) Jeld Wen (or si	·			,
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Foundations \$4,600 Slab on grade with haunch, rebar, hand trowel finish Division 05 - Metals Roofing \$8,300 Clip-on standing seam metal roof, installed Division 06 - Wood and Plastics Framing (interior only) \$1,200 material. Framing \$2,000 labor. Patio \$2,100 material & labor- fence aprrox \$75 a foot Division 07 - Thermal and Moisture Protection WRB installation \$2,000 Material and labor Division 08 - Doors and Windows \$10,768 Exterior door (material) \$2,256 (1x) Jeld Wen (or similar) Fiberglass Inswing door 72x80 Exterior door (material) \$2,090 (1x) Jeld Wen (or similar) Fiberglass Outswing door 60x80 Window (material) \$1,08 (1x) Jeld Wen (or similar) vinyl Casement 36x48 Window (material) \$1,524 (3x) Jeld Wen (or similar) vinyl Awning 36x18 (\$508/each) Window (material) \$2,000 material- interior doors - 2 swing, 2 pocket @ \$500 each Windows & Doors \$1,000 material- exterior and interior Division 09 - Finishes \$23,600 Drywall \$1,000 material-	Electrical and plumbing excavation	\$2,000	Connection to existing utilities	
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Division 07 — Thermal and Moisture Protection WRB installation \$2,000 Material and labor Division 08 — Doors and Windows Exterior door (material) \$2,256 (1x) Jeld Wen (or similar) Fiberglass Inswing door 72x80 Exterior door (material) \$2,090 (1x) Jeld Wen (or similar) Fiberglass Outswing door 60x80 Window (material) \$1,108 (1x) Jeld Wen (or similar) vinyl Casement 36x48 Window (material) \$1,524 (3x) Jeld Wen (or similar) vinyl Awning 36x18 (\$508/each) Window (material) \$590 (2x) Jeld Wen (or similar) vinyl Picture 36x18 (\$295/each) Windows & Doors \$2,000 material- interior doors - 2 swing, 2 pocket @ \$500 each Windows & Doors \$1,200 labor- install exterior and interior Division 09 — Finishes \$23,600	Framing	\$2,000	labor-	
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Division 08 — Doors and Windows Exterior door (material) \$2,256 (1x) Jeld Wen (or similar) Fiberglass Inswing door 72x80 Exterior door (material) \$2,090 (1x) Jeld Wen (or similar) Fiberglass Outswing door 60x80 Window (material) \$1,108 (1x) Jeld Wen (or similar) vinyl Casement 36x48 Window (material) \$1,524 (3x) Jeld Wen (or similar) vinyl Awning 36x18 (\$508/each) Window (material) \$590 (2x) Jeld Wen (or similar) vinyl Picture 36x18 (\$295/each) Windows & Doors \$2,000 material- interior doors - 2 swing, 2 pocket @ \$500 each Windows & Doors \$1,200 labor- install exterior and interior Division 09 — Finishes \$23,600	Division 07 — Thermal and Ma	oisture l	Protection \$2,000)
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Division 09 — Finishes \$23,600 Drywall \$1,000 material-	Windows & Doors	\$2,000		
Drywall \$1,000 material-	Windows & Doors	\$1,200	labor- install exterior and interior	
,	Division 09 - Finishes		\$23,600)
Drywall \$2,500 labor-	Drywall	\$1,000	material-	
	Drywall	\$2,500	labor-	

\$130,944

Total cost of construction

GST Panelized construction

Painting	\$2,500	subcontractor-					
Siding	\$7,600	material-approx \$8 sq/ft					
Siding	\$7,600	labor- siding approx \$8 sq/ft					
Trim	\$700	material and labor approx \$5 sq/ft					
Tiling - Shower	\$500	Tiles \$5/sqft (Daltile or similar) + Grout and misc.					
Tiling	\$1,200	Labor					
Division 10 — Specialties		\$21,490)				
Panels	\$16,220	Panelized system by GST	LINK				
Panels - Shippng	\$1,750	40' hot shot trailer delivery					
Panels - Installation	\$3,520	3 days, 4 laborers, misc material					
Division 11 - Equipment \$5,338							
Kitchen	\$598	Frigidaire 11.6 cu. ft. 24" wide	<u>LINK</u>				
Kitchen	\$1,195	Frigidaire Induction Range or similar	<u>LINK</u>				
Kitchen	\$599	Microwave with recirculating fan	<u>LINK</u>				
Washer and Dryer	\$2,290	LG 24" Stacked Washer and Condensing Dryer	<u>LINK</u>				
Tankless Water heater	\$656	Stiebel Eltron Tempra 20 Plus or similar tankless electric	<u>LINK</u>				
Division 12 - Furnishings \$6,2							
Kitchen - cabinets	\$798	Ikea Enhet cabinets and doors (includes upper cabinets and hardware)	LINK				
Kitchen - cabinets Installation	\$1,760	Labor, 2 laborers, 2 days					
Kitchen - Faucet	\$129	Ikea Almaren Faucet or similar	<u>LINK</u>				
Kitchen - Sink	\$149	lkea Havsen sink or similar	<u>LINK</u>				
Kitchen - Countertop	\$1,500	labor and material- countertops (butcher block)					
Bathroom - Faucet	\$226	Kohler tempered or similar	<u>LINK</u>				
Bathroom - Vanity	\$299	Glacier Bay Everdean vanity w/ sink, 24"	<u>LINK</u>				
Bathroom - Tub	\$596	Duravit 60" skirt alcove bathtub or sim	<u>LINK</u>				
Bathroom - Toilet	\$334	Duravit 219601 Elongated toilet or sim	<u>LINK</u>				
Bathroom - Tub and Shower system		Kohler tempered or similar	<u>LINK</u>				
Bathroom - Towel warmer		Anzzi 4 bar or similar	<u>LINK</u>				
Division 15 — Mechanical/Plumbing \$12,835							
Plumbing	\$3,500	Rough in and trim out					
HVAC installation	\$6,000	Heat pump. 2x wall hung mini splits + condenser					
HVAC equipment	\$2,758	Mitsubishi (or sim) 6+6kBTU + 18kBTU condenser	<u>LINK</u>				
Bathroom fan	\$98	Panasonic WhisperRemodel or similar	<u>LINK</u>				
ERV	\$479	Panasonic WhisperComfort or similar	LINK				
Division 16 — Electrical		\$6,000)				
Electrical	\$4,000	Roough in and trim out					
Lighting fixtures	\$2,000	Accent lighting fixtures allowance					



DEMO Architecture PLLC

Alessandro Ronfini, AIA Daniel Kidd, AIA Catalina Rivera Taylor Lowery

And pricing help from: Seamus McCance - Seamus Build, LLC Marc Crudele - Guardian Structural Technologies