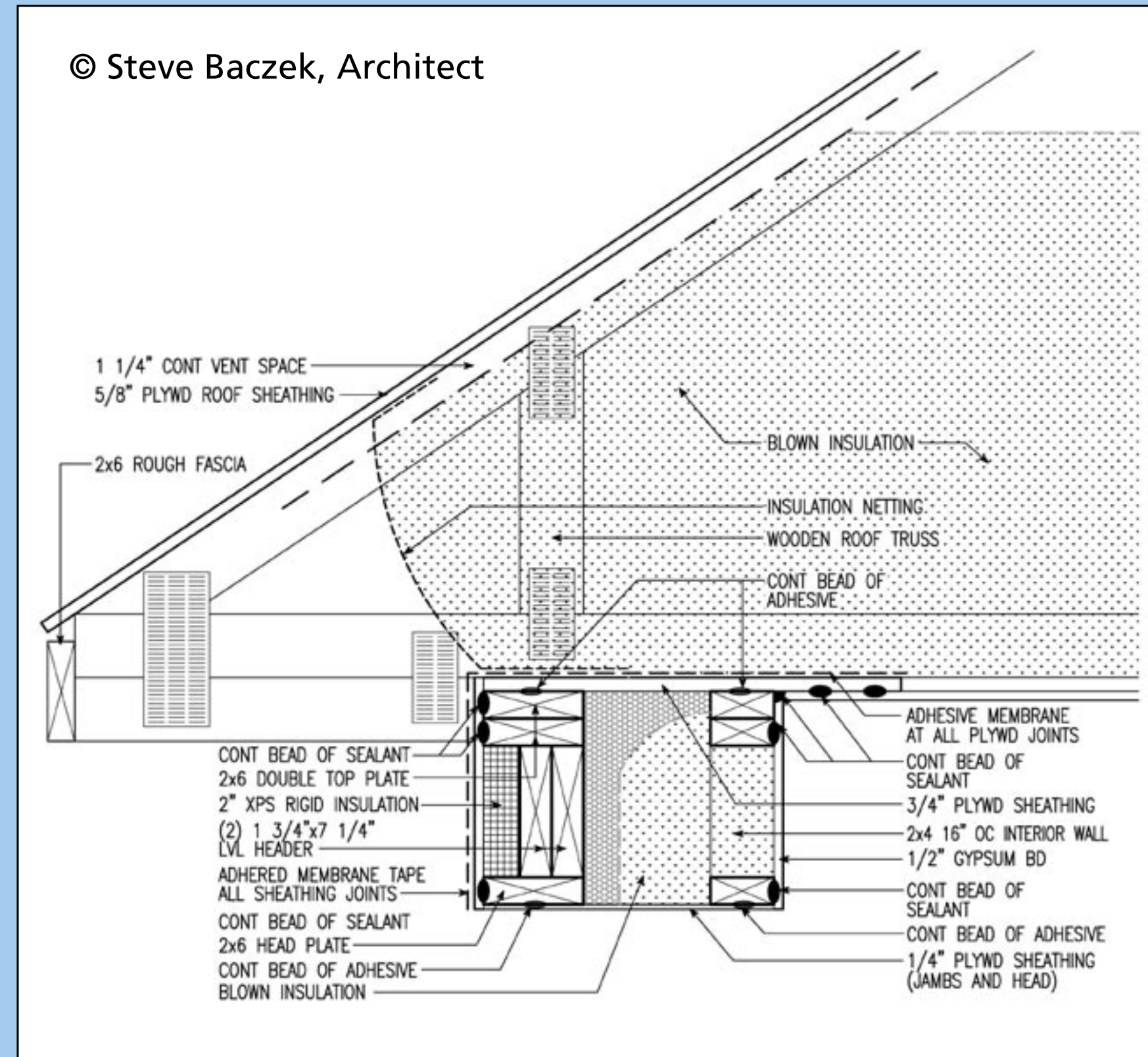


Cape Cod Passive House

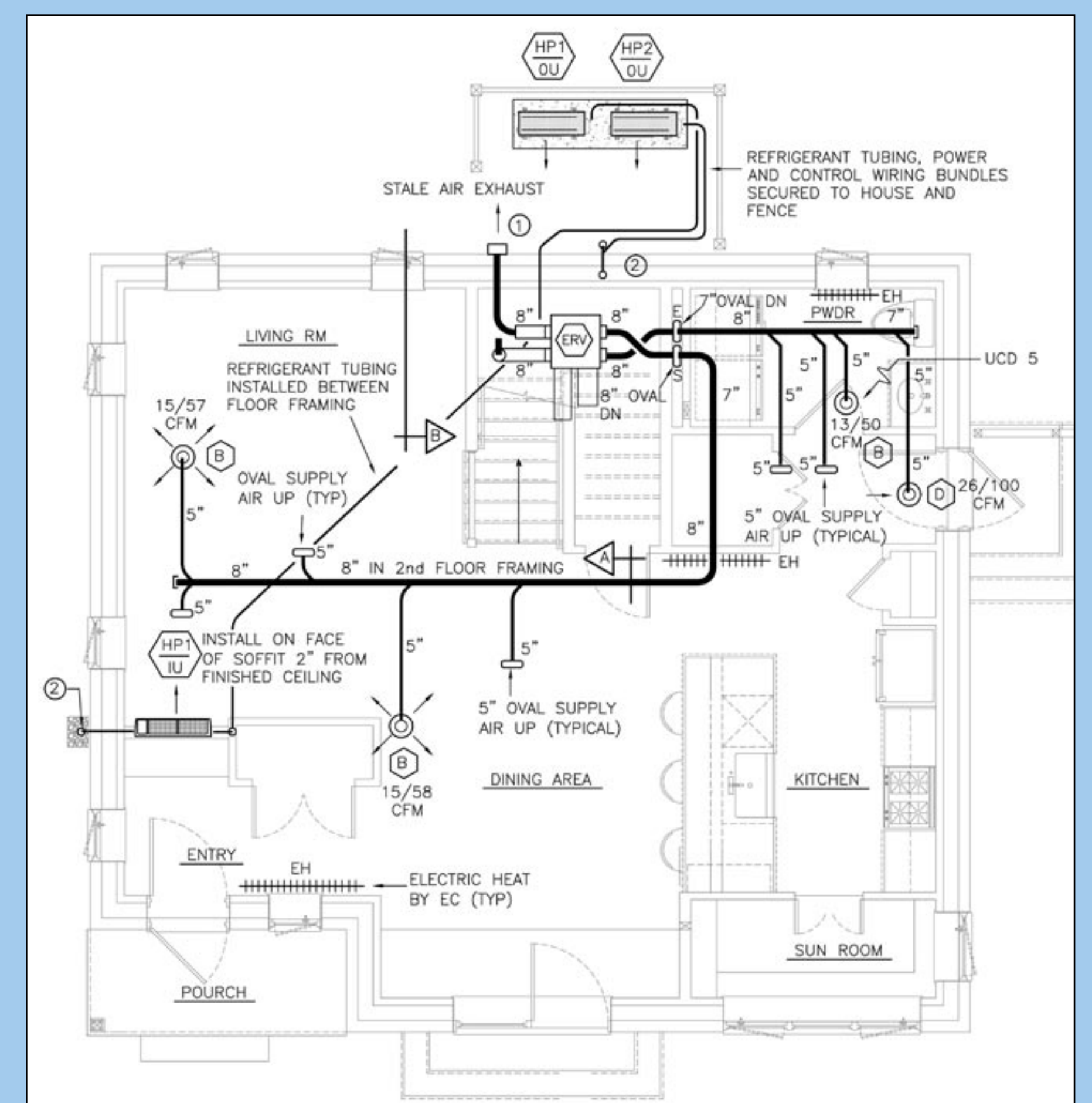
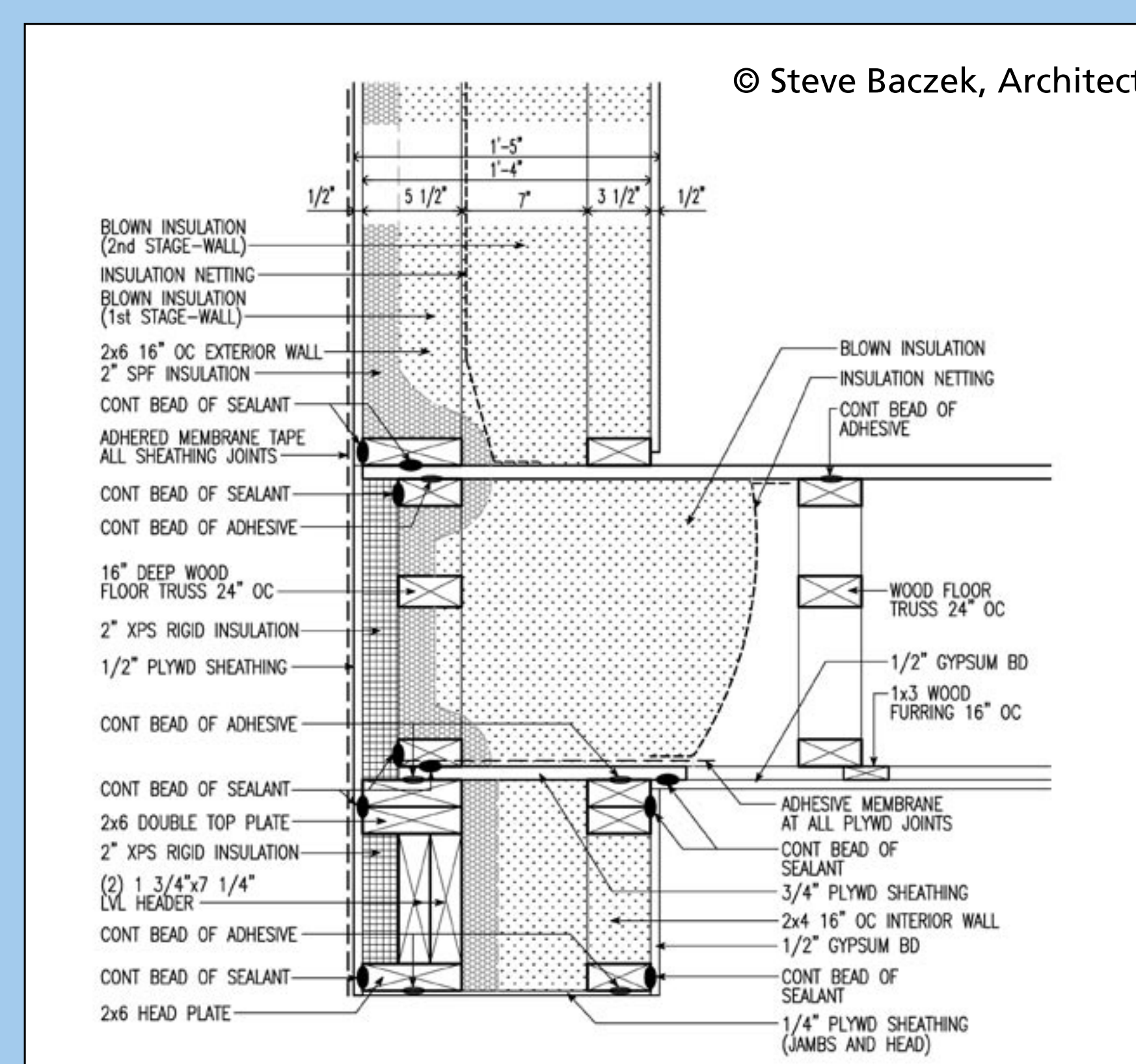
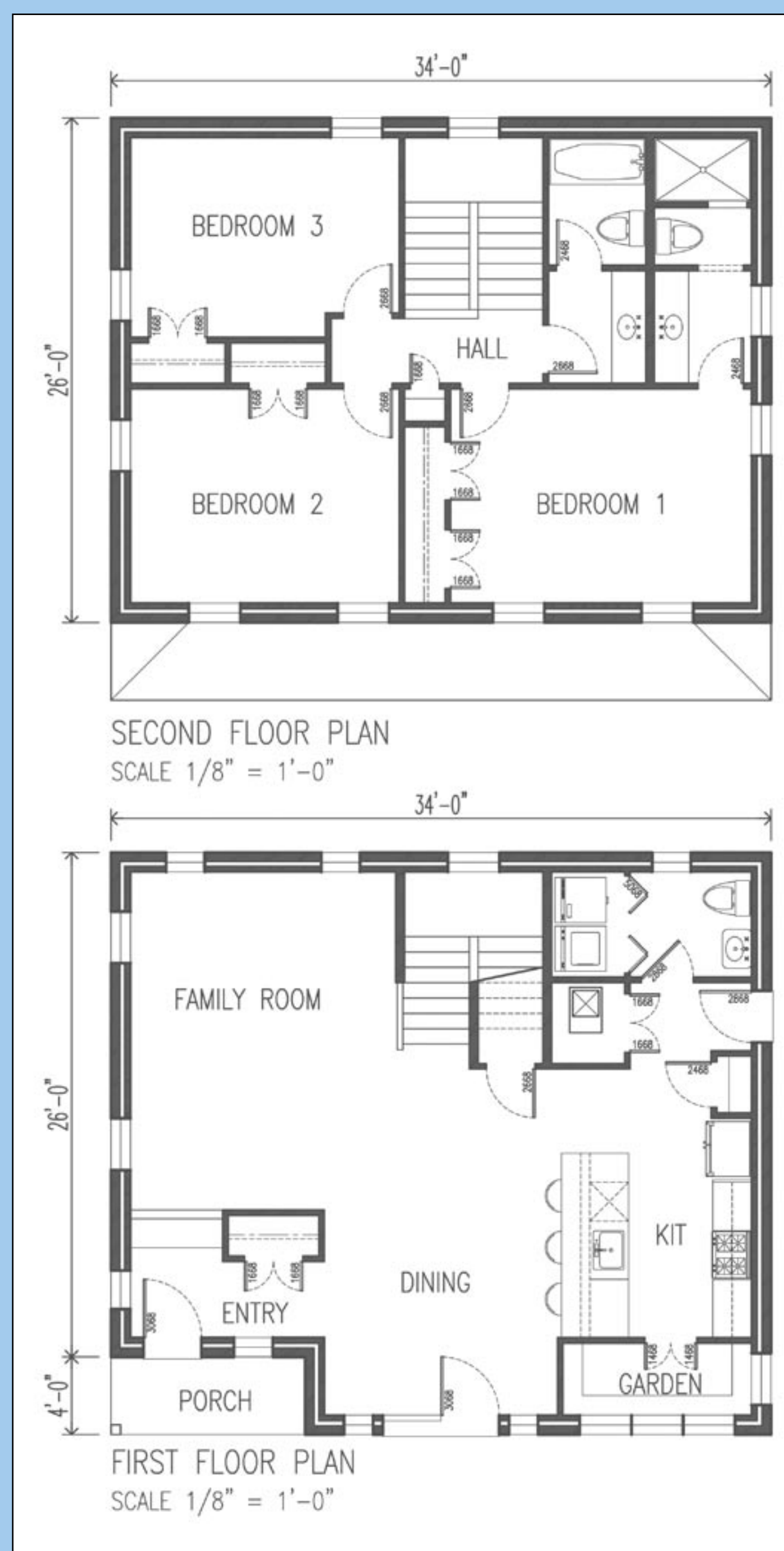


5th Annual North American Passive House Conference Poster Session
November 4, 2010 7:00 - 9:00 pm
Portland Hilton, Pavilion Room

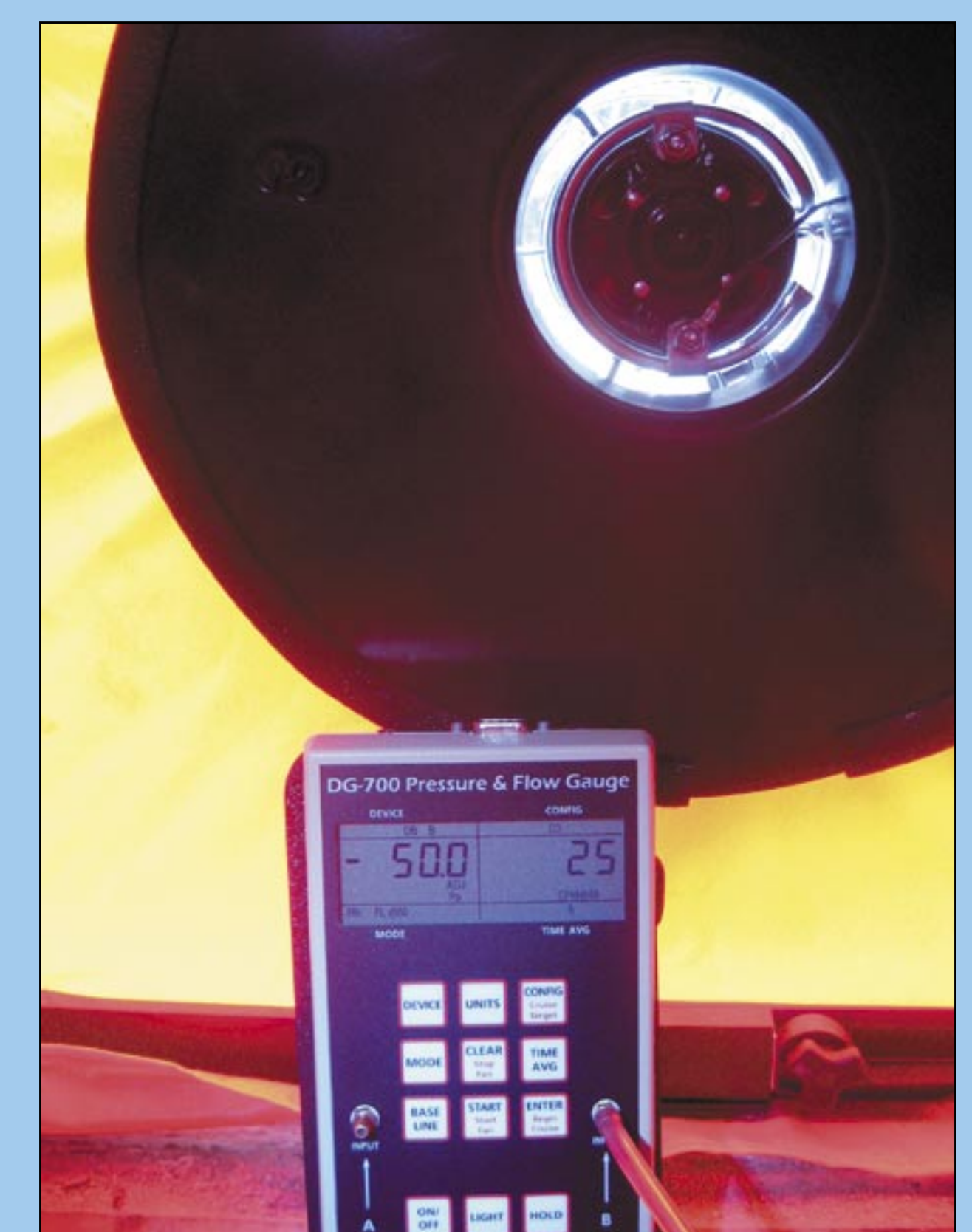
Cape Cod Passive House	
East Falmouth, MA	
1342 sf	
Project Team	
Certified PHC	Mike Duclos
Architect	Stephen Baczek
Builder	The Valle Group
Certifications	Pre-certified 8/5/2010
Heat Demand	4.49 kBTU/(ft ² yr)
Air Tightness	0.12 ACH ₅₀ (first test)
Primary Energy	32.16 kBTU/(ft ² yr)
Cooling Demand	12.34 kBTU/(ft ² yr)
Heating Load	11.90 BTU/(ft ² hr)
Cooling Load	12.34 BTU/(ft ² hr)



Solar Pathfinder for South elevation



Envelope	IP (R-Value)		
Floor	74.3		
Walls	60.3		
Ceiling (main)	116.2		
Ceiling (sun room)	99.5		
Glazing	IP (U)	SHGC	
North Thermotech 322 Shade	0.1233	0.29	
East Thermotech 322 Gain	0.1621	0.61	
South Thermotech 322 Gain+	0.1621	0.64	
West Thermotech 322 Gain	0.1621	0.61	
South Doors Thermotech 322 Gain+, Kr	0.1638	0.64	
South, East Doors T'tech 322 Shade, Thermatru	0.1018	0.00	
Ventilation	IP (CFM)		
Recuperator 200DX	63.4		
Heating and Cooling System			
Daikin Quarternity FTXG09HVJU, 2 units			
DHW System			
Three AE32 4'x8' Flat Plate Collectors			
80 gal SuperStor w/electric backup			
Resol Som 6 Solar Controller			



Infiltration test prior to window installation