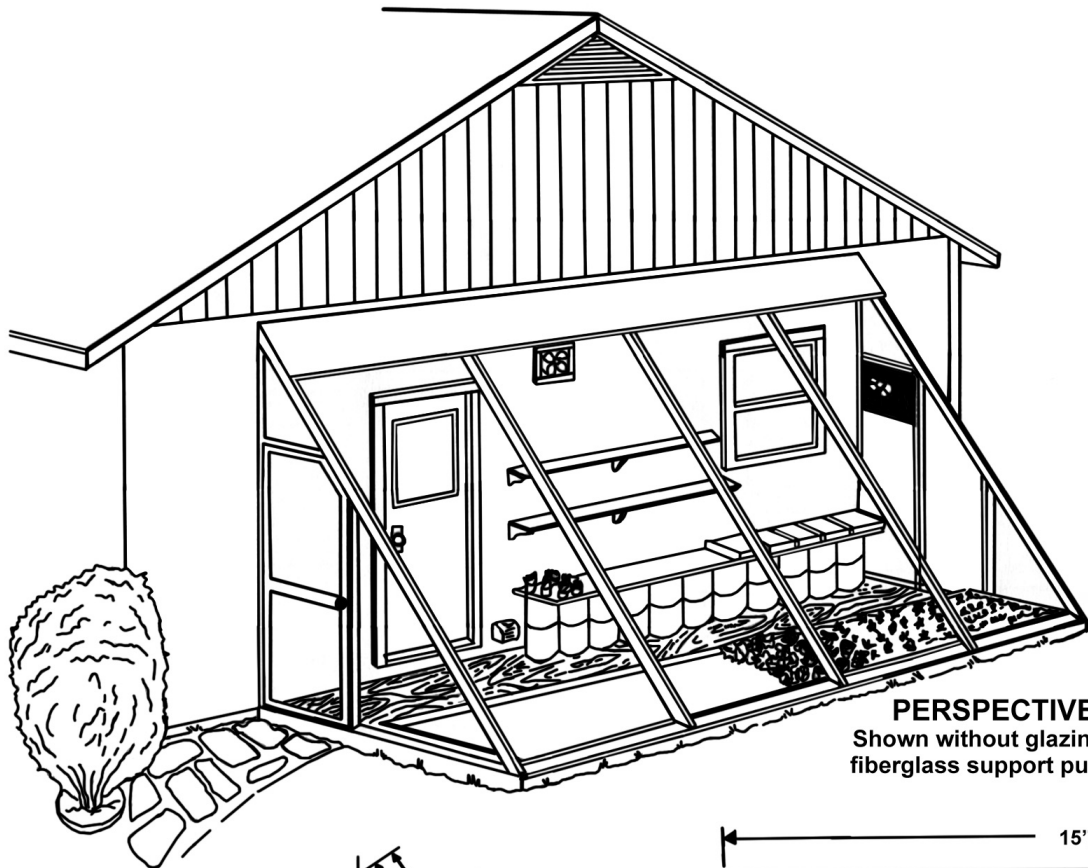




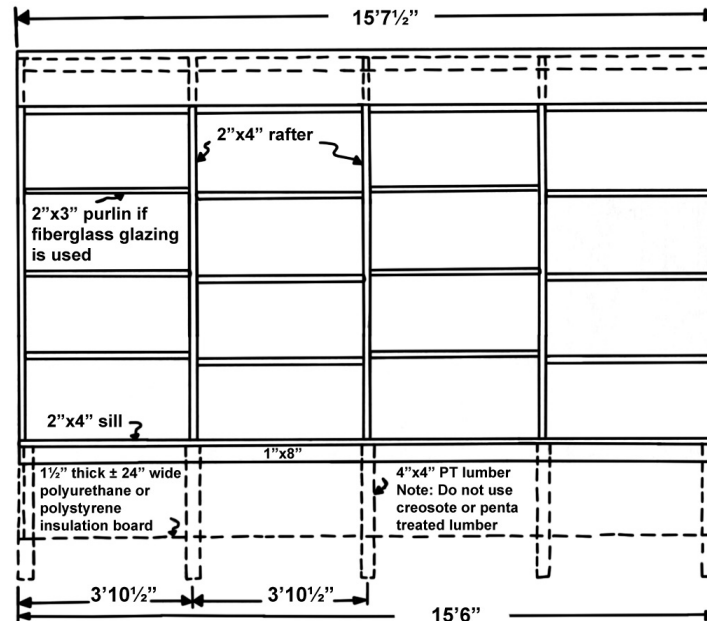
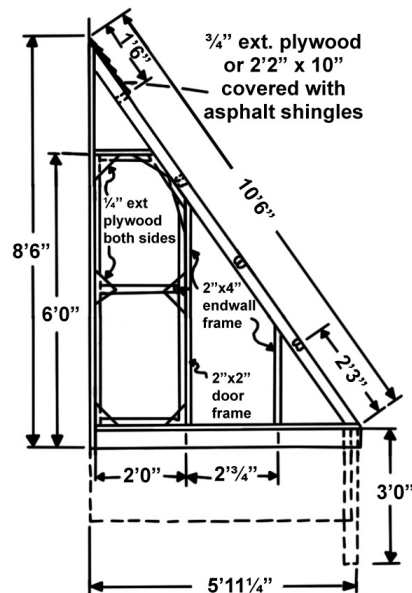
PERSPECTIVE
Shown without glazing or
fiberglass support purlins

MATERIALS LIST

14	2"x4"x10'	Rafters — door — endwall — sill
1	2"x4"x12'	Sill
1	4"x4"x16'	Posts
8	2"x3"x8'	Purlins (if fiberglass glazing used)
2	1"x8"x8'	Foundation
3	1"x8"x12'	Foundation (ground bed)
4	1"x10"x8'	Roof
2 shts	4"x8"x11½"	Polystyrene insulation
1 pr	4"	Butt hinges
1		Door latch
		Assorted common nails — 6d, 8d, 16d

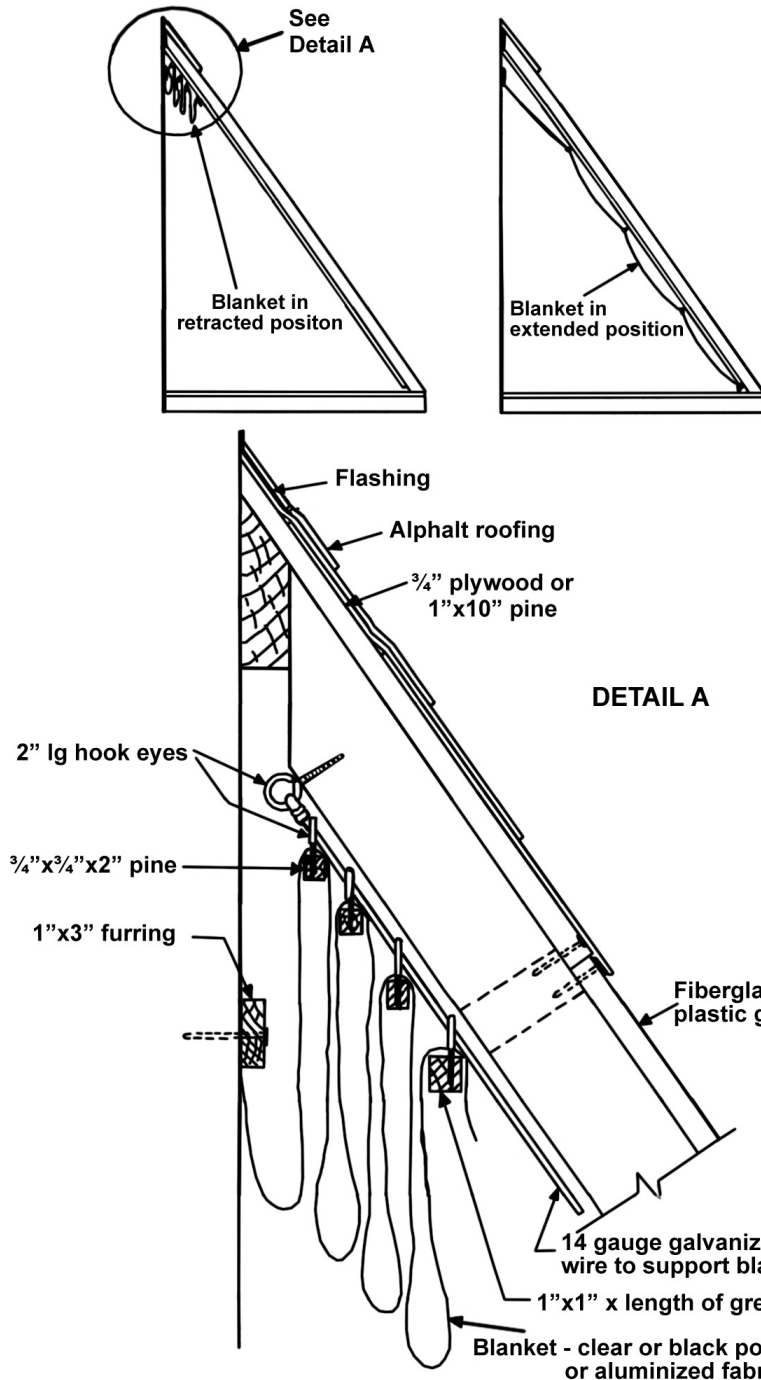
GLAZING

4 shts	4'x8' - 5 oz	Clear corrugated fiberglass reinforced plastic
1 roll	4'x25' - 4 oz	Clear flat fiberglass reinforced plastic
300	1¼"	Aluminum nails with neoprene washers
30'		Corrugated rubber sealing strips
		or
1 roll	10'x100' 6 mil	Greenhouse grade polyethylene film
200'	1"x3"	Furring strips to attach poly outside & inside



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ATTACHED GREENHOUSE & SOLAR COLLECTOR		
DR by J. Barton	CK by R. Aldrion	Sheet 1 of 2
Scale: as shown	Date: 4-82	Plan 252

CONSTRUCTION NOTES



GENERAL

Obtain building permit if required.
Select a site with south, southeast or southwest exposure.
Provide adequate drainage.
Use pressure treated lumber or treat wood in contact with the ground with copper naphthenate wood preservative.
Paint frame with an exterior white paint.
Door can be located at either end.
Use flashing between house and greenhouse roof.

COVERING

Round and smooth all edges.
Use a double layer of 6 mil greenhouse grade polyethylene plastic, available from greenhouse suppliers. One layer inside, one layer outside. Fasten with furring strips.
Alternate coverings - clear fiberglass reinforced plastic (FRP), double wall acrylic or polycarbonate.

WALKS

Areas other than beds can be covered with bricks, flagstone or pea stone over sand base.

VENTILATION

A 10" - 1/20 hp shutter mounted fan with intake louver and thermostat should be used for summer ventilation. Shade thermostat from direct sunlight.
Tobacco netting or polypropelene saran shade can be used to reduce summer heat.

ENERGY CONSERVATION

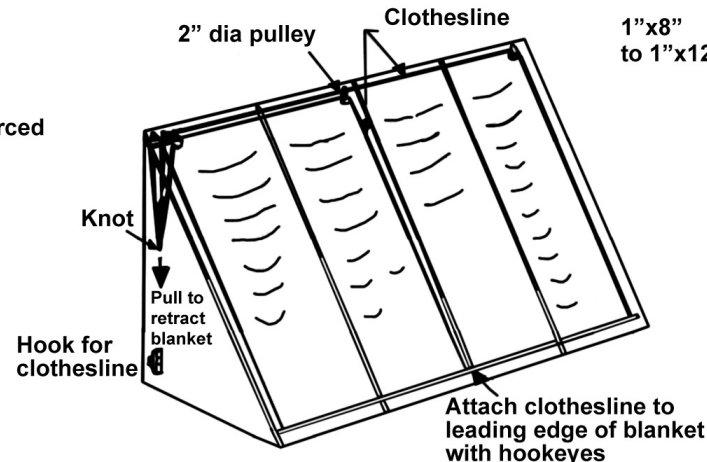
Fixed or removable polystyrene insulation panels can be used on all or part of endwalls.
Caulk all cracks.

HEAT STORAGE

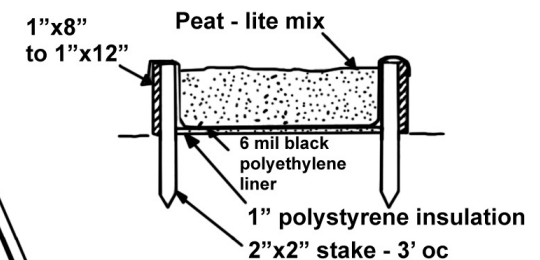
If greenhouse is to be used for growing plants provide 150 to 200 gal of water in 1 or 5 gallon containers.
If greenhouse is to be used for heating the home, no storage is necessary; and heat transfer can be accomplished with an 8- or 10-inch diameter room to room fan located near the ceiling and an 8- to 10-inch square wall louver near the floor.

SUPPLEMENTAL HEAT

To maintain greenhouse temperature at 50°F at 0°F outside during extended periods of cloudy weather, a heater with an output of 6000 to 8000 BTU/hr is needed.



BLANKET RETRACTION SYSTEM



BED CONSTRUCTION

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Scale: None	Date: 4-82	Plan 252