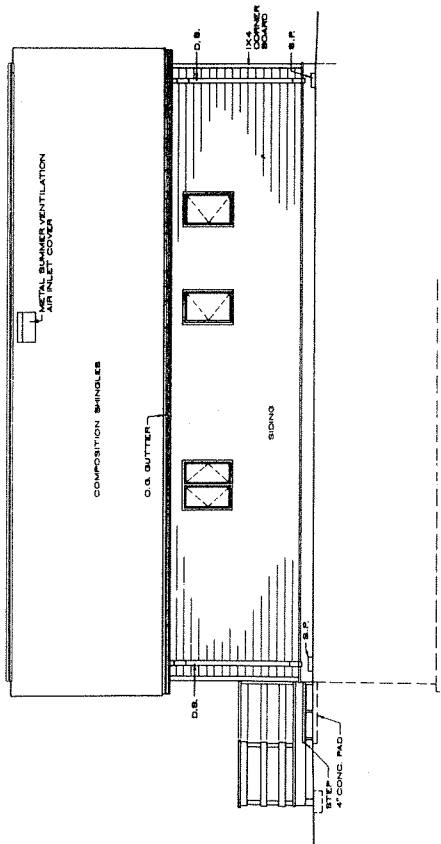
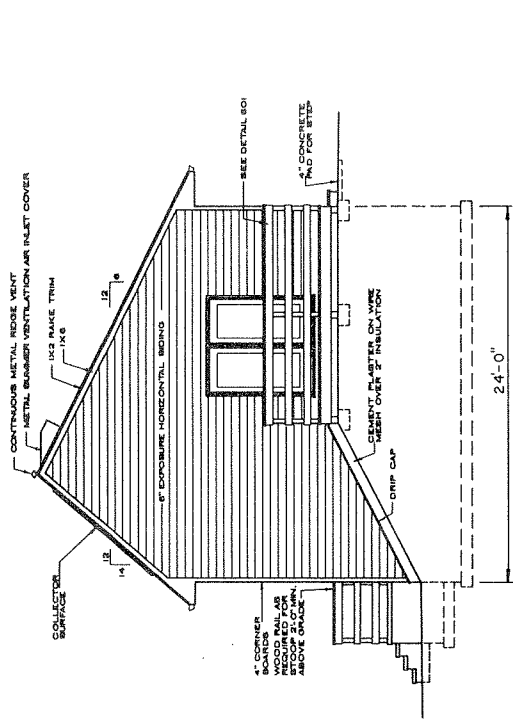


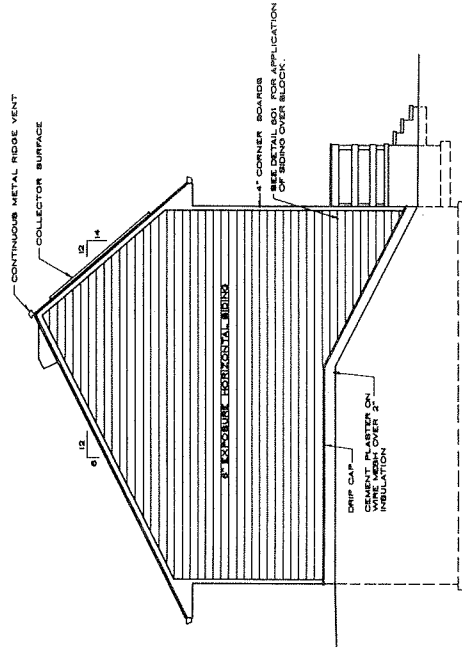
FRONT ELEVATION (SOUTH)



REAR ELEVATION (NORTH)

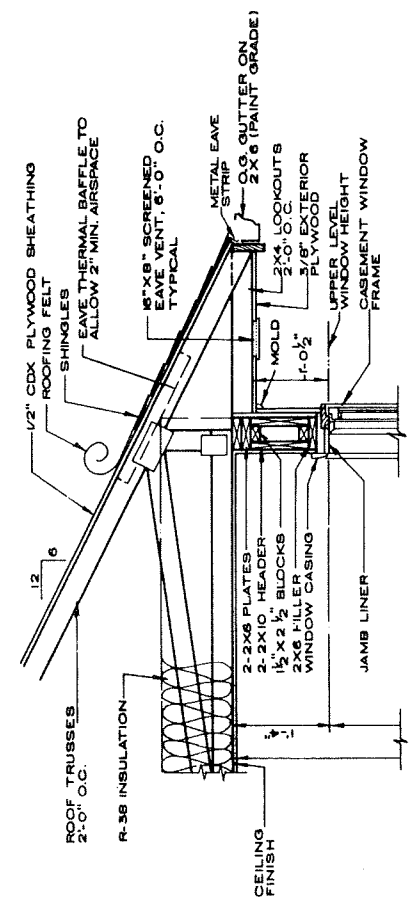


EAST ELEVATION

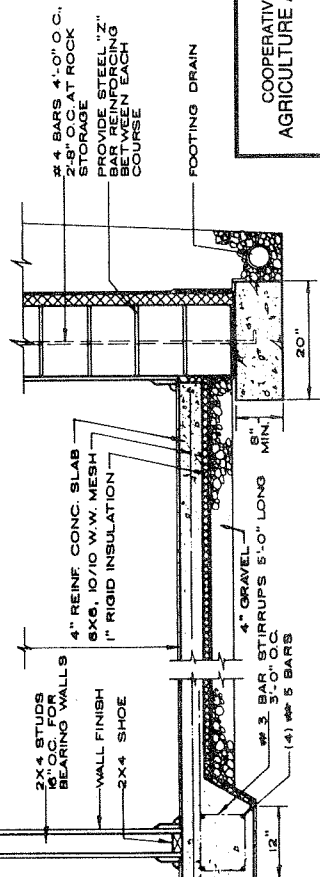
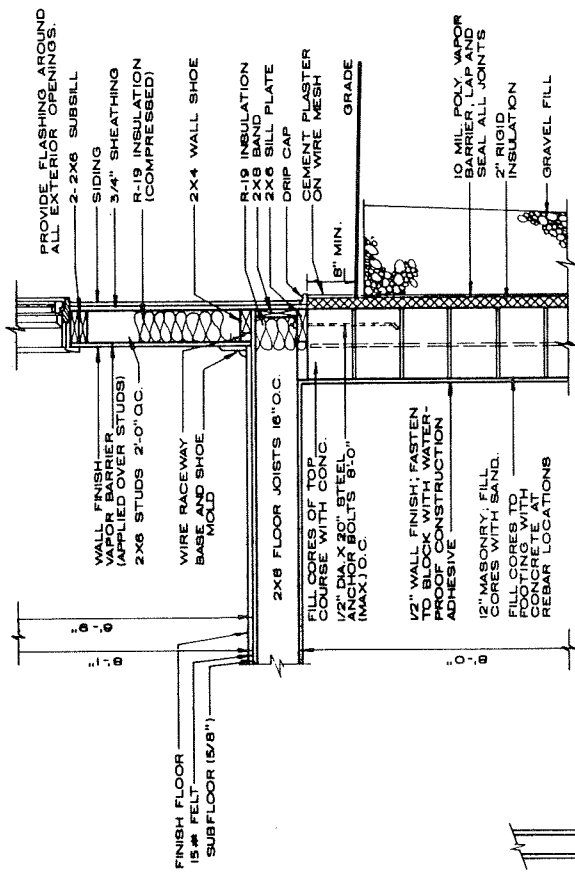


WEST ELEVATION





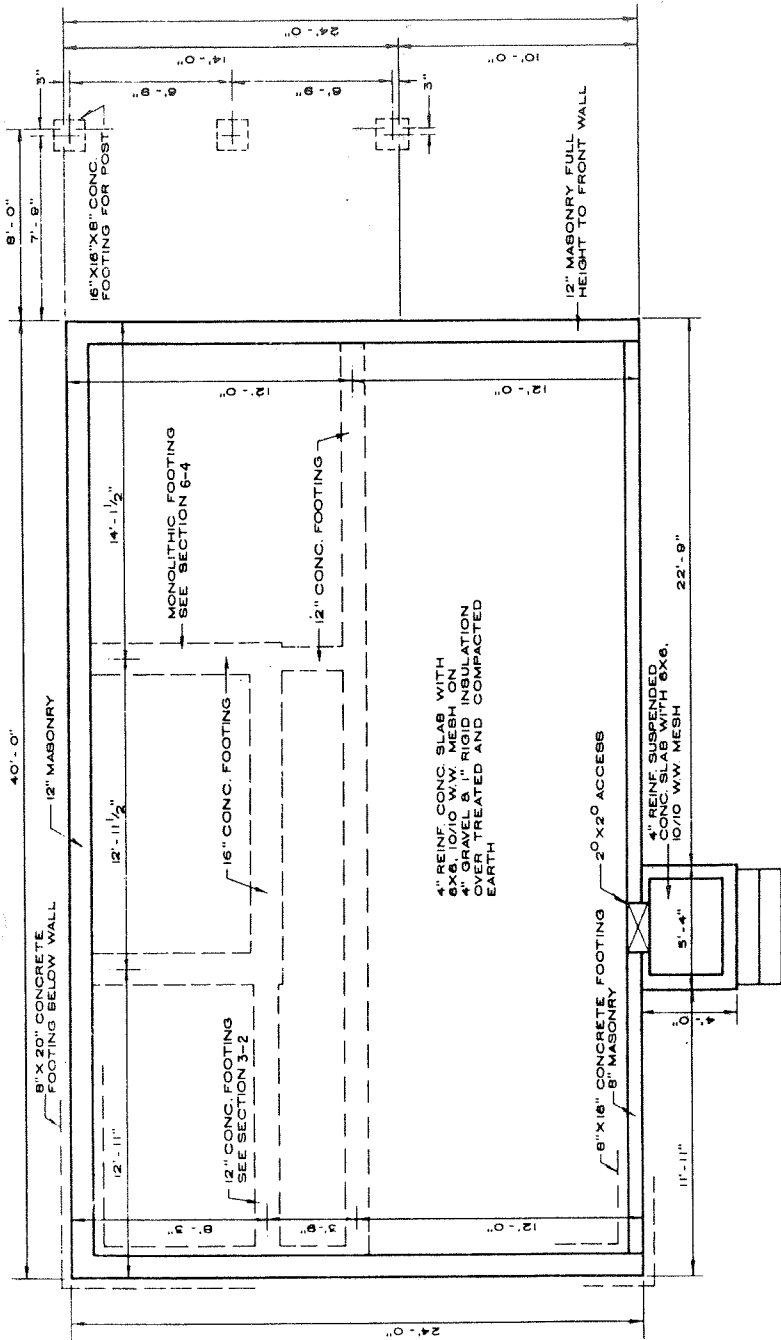
3-1 SECT. THRU EAVE VENT



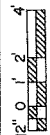
3-2 TYPICAL CROSS SECTION

CONSTRUCTION CHECK LIST

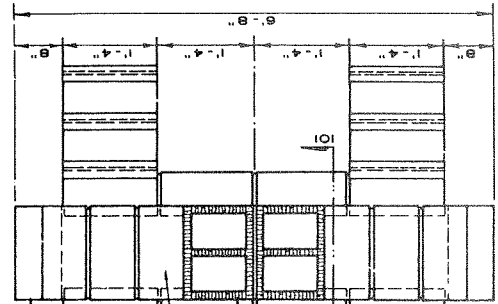
1. CHECK LOCAL BUILDING CODE & LOAN COMPANY CRITERIA.
2. ADEQUATELY NAIL & ANCHOR JOINTS.
3. DOUBLE JOISTS UNDER TUBS & OTHER HEAVY LOADS.
4. SHEATH WITH 3/4" PLYWOOD OR HIGH DENSITY FIBER-BOARD OR USE DIAGONAL BRACING IN CORNER.
5. USE EXTERIOR GLUED PLYWOOD WHEREVER IT MAY BE WETTED DURING OR AFTER CONSTRUCTION.
6. PRESSURE TREAT ALL WOOD WITH GROUND CONTACT AND PROVIDE OTHER NEEDED TERMITE CONTROL.
7. R VALUES DEPEND ON LOCAL CLIMATE AND FUEL COST.
8. PROVIDE 1 SQ FT OF ATTIC VENT OPENINGS FOR EACH 150 SQ FT OF CEILING.
9. WEATHERIZE ALL OPENINGS AND JOINTS.



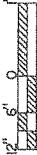
FOUNDATION PLAN



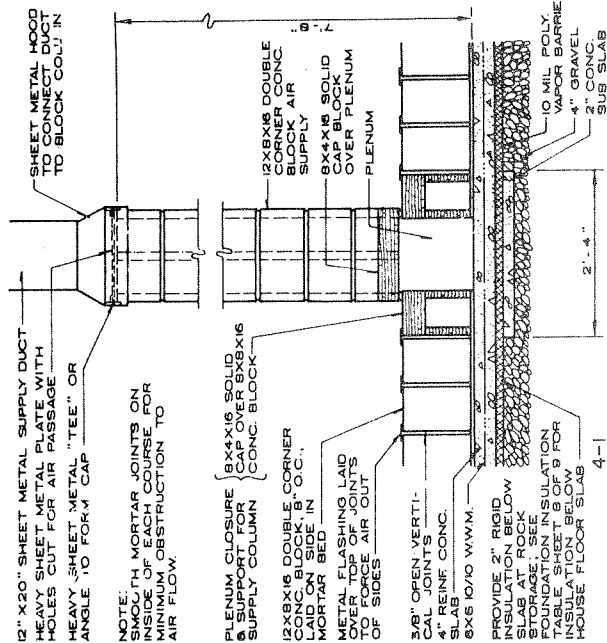
NOTE: ANY WALL FINISHES ATTACHED DIRECTLY TO EXTERIOR MASONRY OR CONCRETE SHALL BE FINISHED WITH APPROVED ADHESIVE. DO NOT USE FURRING STRIPS



4-2 PLENUM PLAN



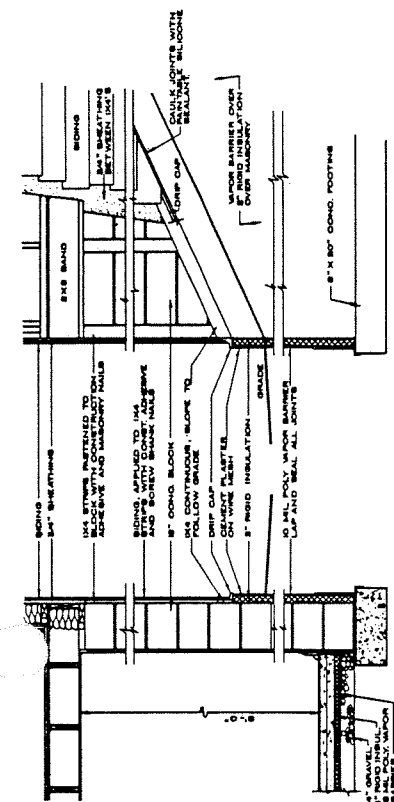
PLENUM CLOSURE: 8X4X16 SOLID CAP OVER 8X8X16 CONC. BLOCK
 METAL FLASHING OVER TOP OF JOINTS TO FORCE AIR OUT OF SIDE OPENINGS
 8X4X16 SOLID CAP BLOCKS OVER PLENUM
 8X4X16 SOLID CAP BLOCKS OVER 8X8X16 CONC. BLOCK
 12X8X16 DOUBLE CORNER CONC. BLOCK AIR SUPPLY COLUMN
 12X8X16 DOUBLE CORNER CONC. BLOCK, 8" O.C. BED WITH 3/8" OPEN VERTICAL JOINTS



4-1 SECTION THRU PLENUM

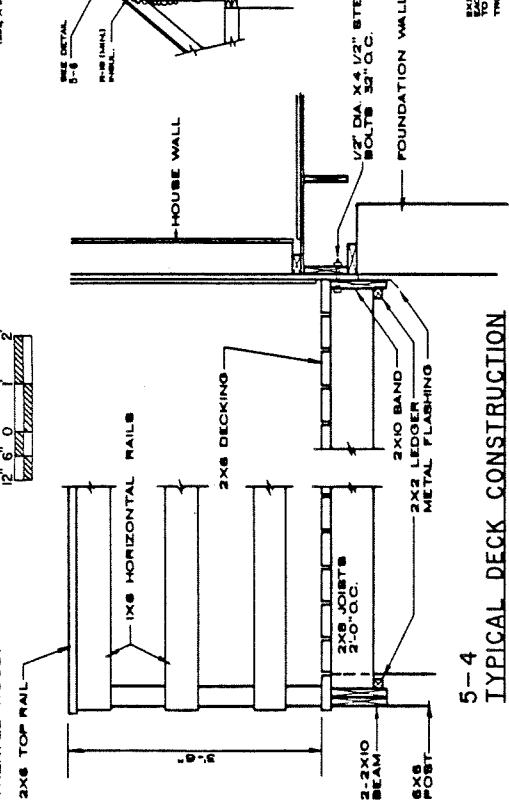


NOTE: PROVIDE 2" RIGID INSULATION BELOW SLAB AT ROCK STORAGE. SEE FOUNDATION PLAN FOR INSULATION BELOW HOUSE FLOOR SLAB
 12" X 20" SHEET METAL SUPPLY DUCT WITH HOLES CUT FOR AIR PASSAGE
 HEAVY SHEET METAL "TEE" OR ANGLE TO FORM CAP
 12" X 20" SHEET METAL PLATE WITH HOLES CUT FOR AIR PASSAGE
 PLENUM CLOSURE (8X4X16 SOLID CAP OVER 8X8X16 CONC. BLOCK)
 12X8X16 DOUBLE CORNER CONC. BLOCK, 8" O.C., LAID ON SIDE IN MORTAR BED
 METAL FLASHING LAID OVER JOINTS TO FORCE AIR OUT OF SIDES
 3/8" OPEN VERTICAL JOINTS
 4" REINF. CONC. SLAB
 6X6 10/10 W.W.M.
 PROVIDE 2" RIGID INSULATION BELOW SLAB AT ROCK STORAGE. SEE FOUNDATION PLAN FOR INSULATION BELOW HOUSE FLOOR SLAB

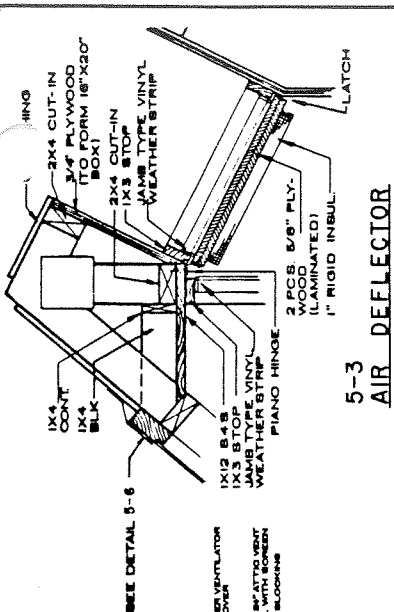


5-1 SIDE WALL DETAILS
12" 6" 3" 0

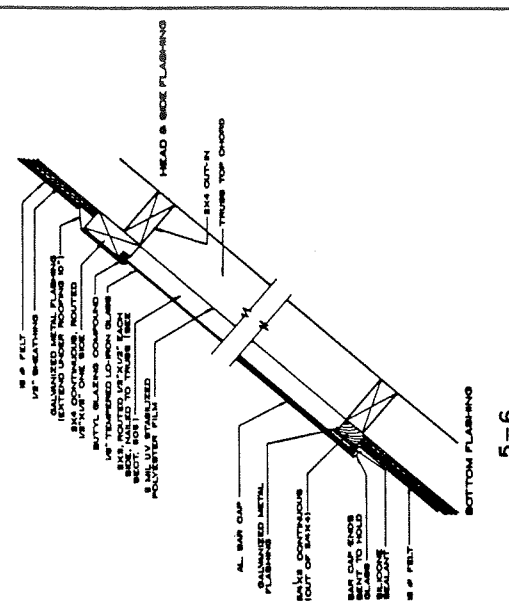
ALL DECK MEMBERS TO BE TREATED WOOD.



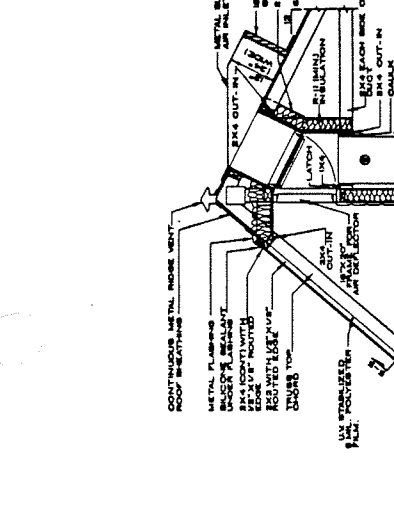
5-4 TYPICAL DECK CONSTRUCTION
12" 6" 3" 0



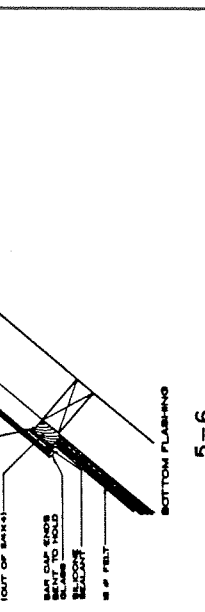
5-3 AIR DEFLECTOR
12" 9" 6" 3" 0



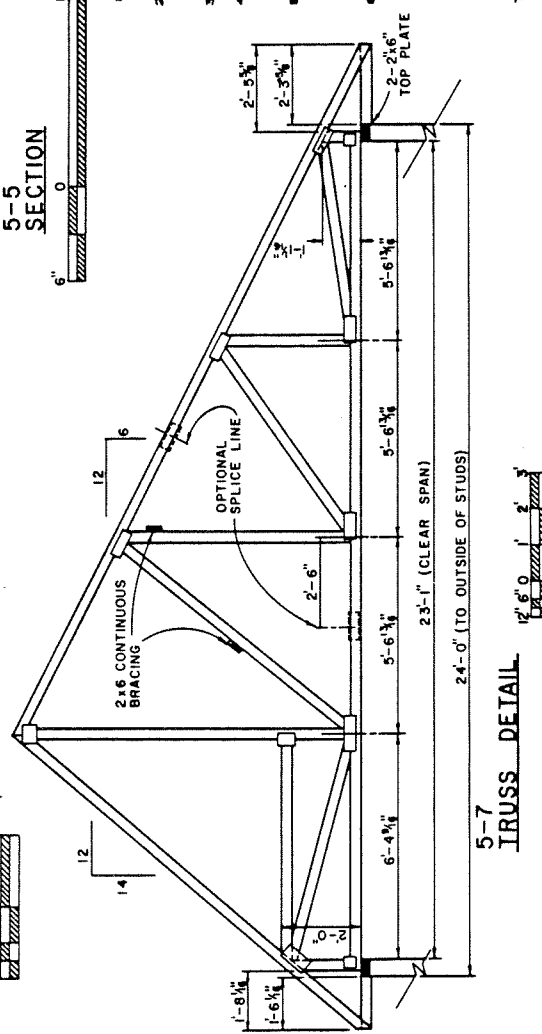
5-5 COLLECTOR FLASHING
6"



5-2 COLLECTOR DETAILS
12" 6" 3" 0



5-7 TRUSS DETAIL
12" 6" 3" 0



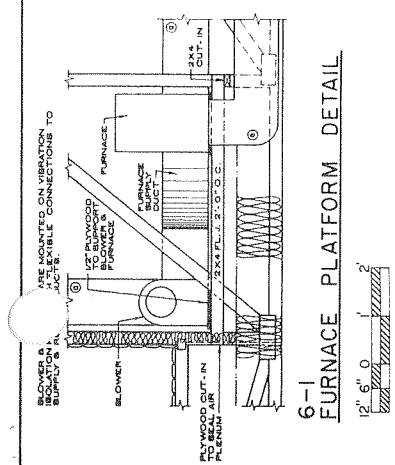
5-5 SECTION
6"

TRUSS GENERAL NOTES
1. ALL TRUSSES SHALL BE FACTORY BUILT TO MEET THE REQUIREMENTS OF LOCAL CODES, CLIMATIC CONDITIONS, AND AGENCIES INVOLVED.
2. ALL TRUSSES SHALL BE MADE OF STEEL GRADED AND 20 MARKED DIMENSIONS TO CARRY ALL DESIGN LOADS SAFELY ACCORDING TO SOUND ENGINEERING PRACTICE.
3. CONNECTIONS: SAFE WORKING LOAD SHALL BE DETERMINED BY TRUSS MANUFACTURER.
4. DESIGN: MANUFACTURER SHALL PROVIDE A TRUSS IN ACCORDANCE WITH THE FOLLOWING CONDITIONS:
5. CONNECTION PLATES: SHALL BE 20 GA. (MIN.) GALVANIZED STEEL, OF SUCH DESIGN AND SIZE AS TO PROVIDE A SAFE JOINT. ALL TRUSS MEMBERS AND TO SAFELY CARRY ANY COMBINED LOADS IMPOSED ON SAID JOINT. TRUSS PLATES SHALL BE APPLIED ON BOTH SIDES OF JOINT.
6. FABRICATION: ALL JOINTS SHALL BE ACCURATELY CUT FOR TRUE FULL BEARING AND HELD FIRMLY IN BEDDED IN WOOD (WOOD WITH KNOTS THAT WOULD REDUCE DESIGN CAPACITY WILL NOT BE USED FOR WEB MEMBERS). TOP AND BOTTOM CHORD SHALL BE TWIST OR WARP TOP AND BOTTOM CHORD SPICES, WHEN REQUIRED, SHALL BE DESIGNED TO CARRY ALL LOADS IMPOSED AT SAID JOINT TO CHORD AND BOTTOM PANEL. SPICES SHALL NOT OCCUR IN THE SAME PANEL.
7. NAILS: WHEN USED SHALL BE 1 1/2\"/>

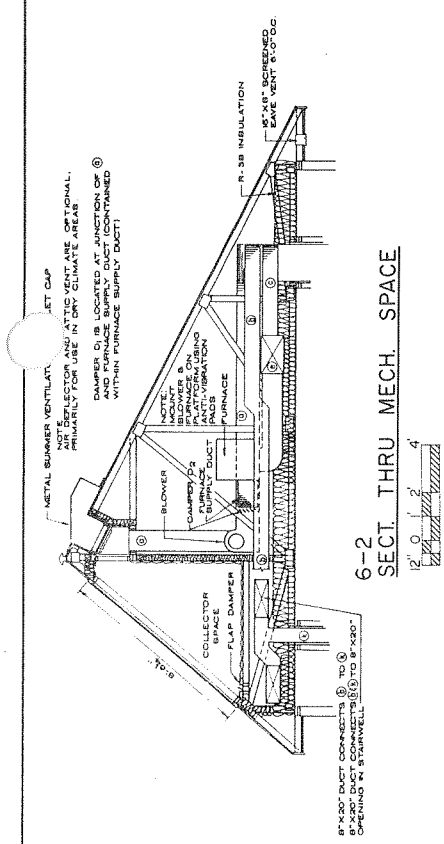
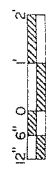
NOTE: DOUBLED TRUSSES EACH SIDE OF FURNACE SPACE TO PROVIDE SUPPORT FOR PLATFORM, BLOWER &

LOADS:
TOP CHORD DEAD LOAD + LIVE LOAD = 45 P.S.F.
BOTTOM CHORD DEAD LOAD = 20 P.S.F.
TOTAL LOAD = 65 P.S.F.

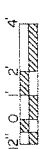
COOPERATIVE EXTENSION SERVICE AGRICULTURE AND HOME ECONOMICS			
UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING			
2 STORY SOLAR ATTIC			
USDA '84	EX. 7236	SHEET 5 OF 7	



6-1 FURNACE PLATFORM DETAIL

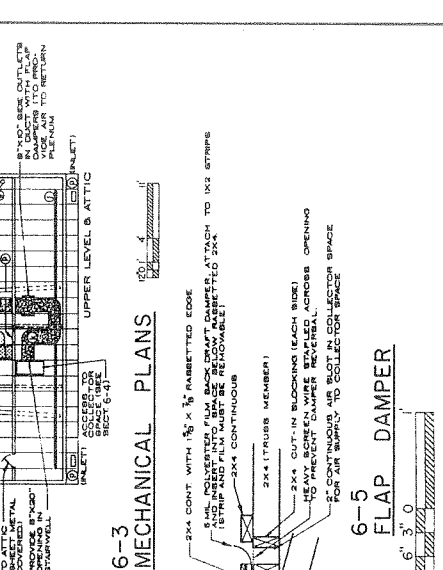


6-2 SECT. THRU MECH. SPACE



NOTE: ALL SUPPLY DUCTS IN UNHEATED AREAS WITH INSULATION.

8" X 20" MOTOR ACTUATED DAMPER, THERMOSTATICALLY CONTROLLED TO VENT COLLECTOR SPACE (OUTLET)
 SPACE VENTILATORS
 WINTER: OPEN VENT AT 160°F
 SUMMER: MANUAL SWITCH FOR CONTINUOUS OPEN VENT



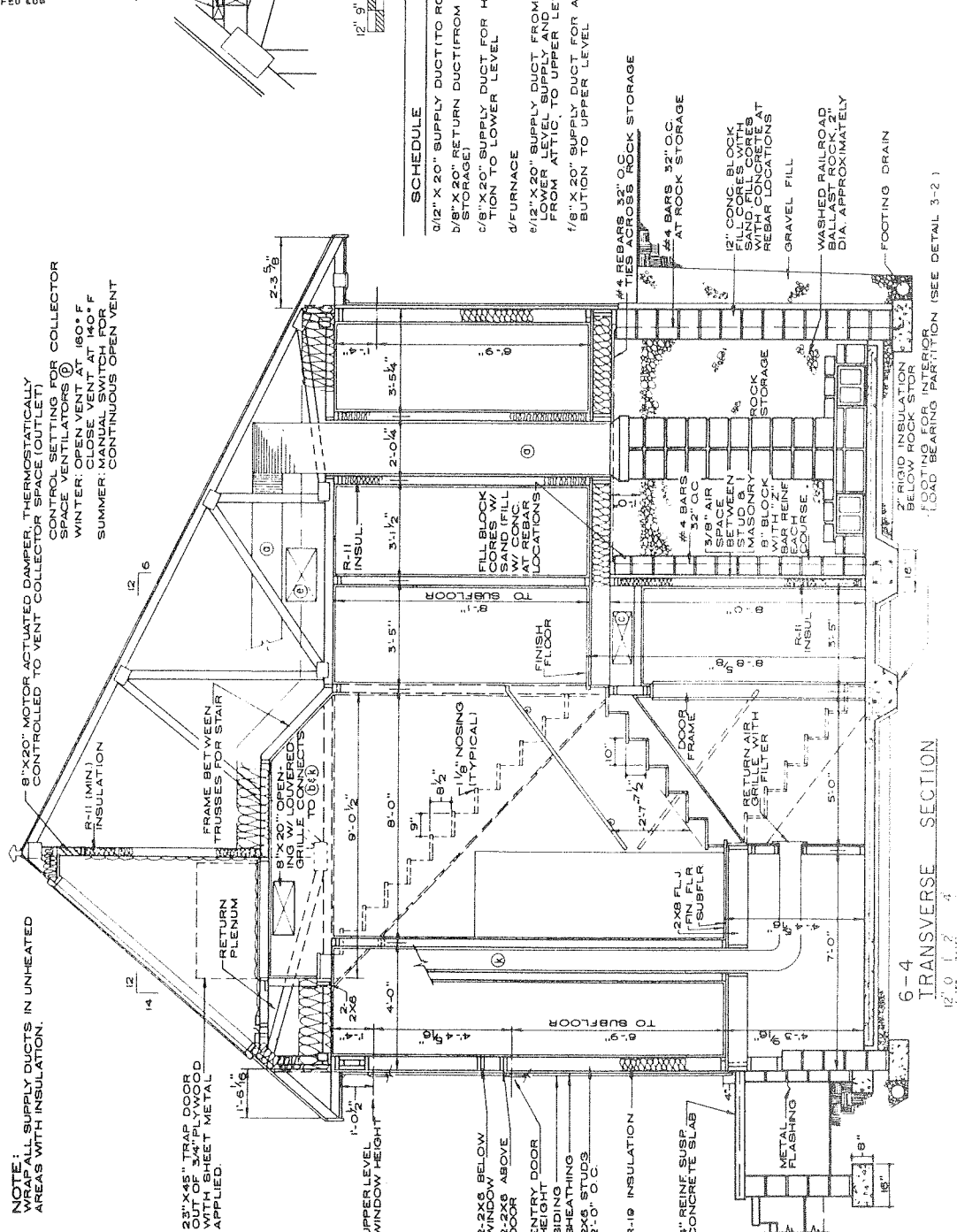
6-3 MECHANICAL PLANS



6-5 FLAP DAMPER

SCHEDULE

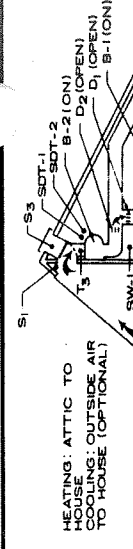
- 0/12" X 20" SUPPLY DUCT (TO ROCK STORAGE)
- 0/18" X 20" RETURN DUCT (FROM ROCK STORAGE)
- 0/8" X 20" SUPPLY DUCT FOR HEAT DISTRIBUTION TO LOWER LEVEL
- 0/FURNACE
- 0/12" X 20" SUPPLY DUCT FROM FURNACE TO FROM ATTIC, TO UPPER LEVEL
- 0/8" X 20" SUPPLY DUCT FOR ATTIC DISTRIBUTION TO UPPER LEVEL



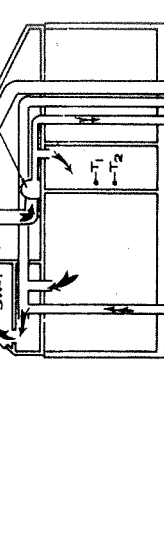
6-4 TRANSVERSE SECTION



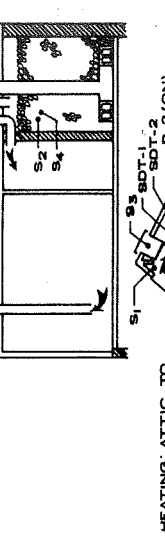
NOTE: DOUBLED TRUSSES EACH SIDE OF FURNACE SPACE TO PROVIDE SUPPORT FOR PLATFORM, BLOWER & FURNACE.



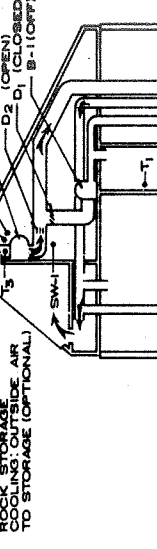
HEATING: ATTIC TO HOUSE
COOLING: OUTSIDE AIR TO HOUSE (OPTIONAL)



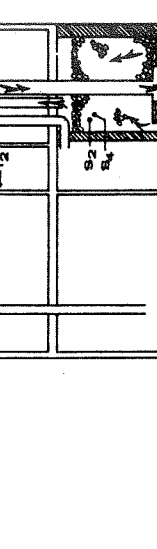
HEATING: ATTIC TO ROCK STORAGE
COOLING: OUTSIDE AIR TO STORAGE (OPTIONAL)



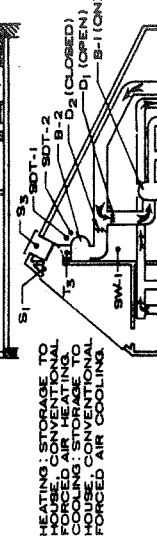
HEATING: STORAGE TO HOUSE, CONVENTIONAL FORCED AIR HEATING
COOLING: OUTSIDE AIR TO HOUSE, CONVENTIONAL FORCED AIR HEATING



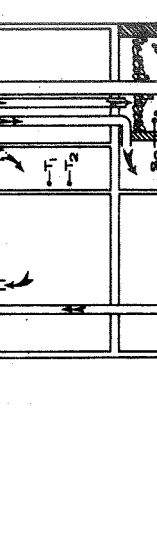
HEATING: STORAGE TO HOUSE, CONVENTIONAL FORCED AIR HEATING
COOLING: OUTSIDE AIR TO HOUSE, CONVENTIONAL FORCED AIR HEATING



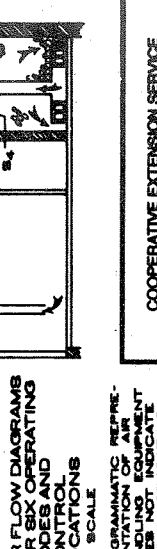
HEATING: STORAGE TO HOUSE, CONVENTIONAL FORCED AIR HEATING
COOLING: OUTSIDE AIR TO HOUSE, CONVENTIONAL FORCED AIR HEATING



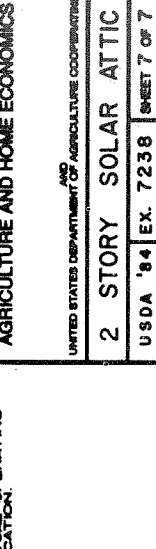
HEATING: STORAGE TO HOUSE, CONVENTIONAL FORCED AIR HEATING
COOLING: OUTSIDE AIR TO HOUSE, CONVENTIONAL FORCED AIR HEATING



HEATING: STORAGE TO HOUSE, CONVENTIONAL FORCED AIR HEATING
COOLING: OUTSIDE AIR TO HOUSE, CONVENTIONAL FORCED AIR HEATING



HEATING: STORAGE TO HOUSE, CONVENTIONAL FORCED AIR HEATING
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HEATING: STORAGE TO HOUSE, CONVENTIONAL FORCED AIR HEATING
COOLING: OUTSIDE AIR TO HOUSE, CONVENTIONAL FORCED AIR HEATING

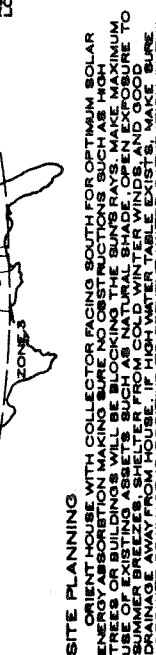
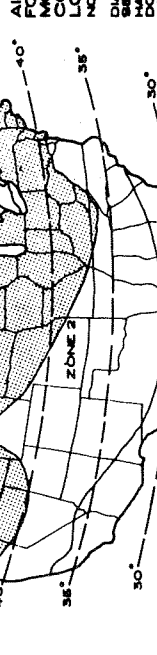
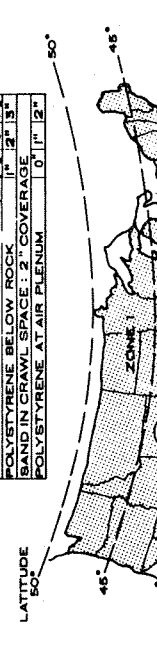
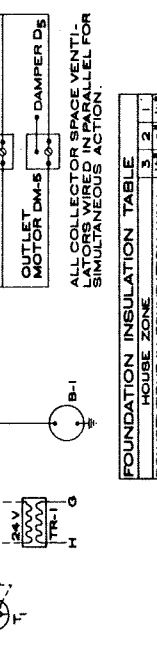
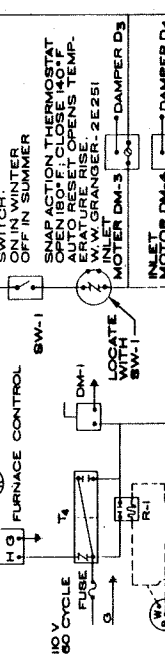
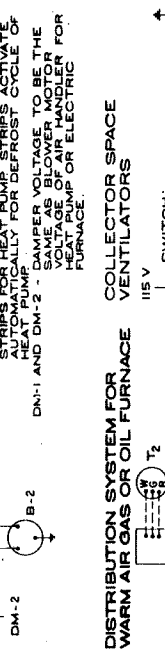
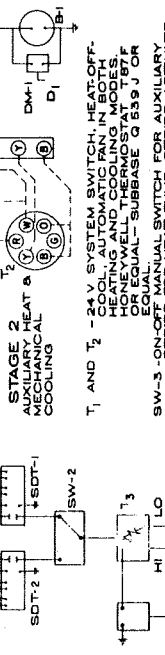
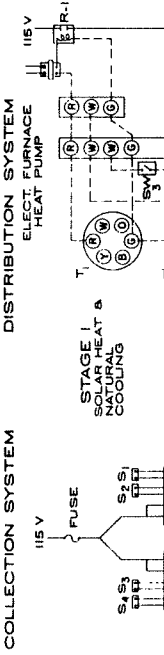
MANUAL CHANGE-OVER FROM SOLAR COOLING TO HEATING

- CLOSE ALL SOFFIT VENTS.
- CHANGE BOTH HOUSE THERMOSTATS TO HEAT.
- POSITION HEAT-COOL SWITCH SW-1A, SW-2 TO HEAT.
- CLOSE RIDGE VENT IN COLLECTOR SPACE.

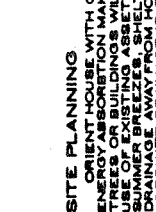
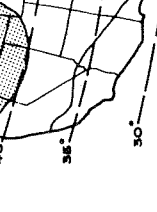
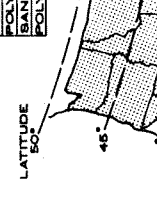
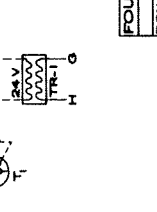
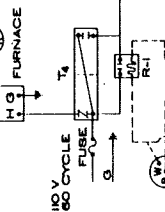
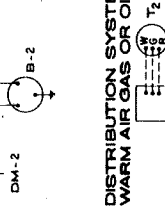
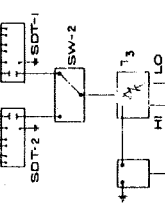
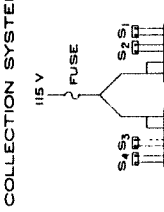
MANUAL CHANGE-OVER FROM SOLAR HEATING TO COOLING

- CLOSE ALL SOFFIT VENTS.
- CHANGE BOTH HOUSE THERMOSTATS TO COOL.
- POSITION HEAT-COOL SWITCH SW-1A, SW-2 TO COOL.
- CLOSE RIDGE VENT IN COLLECTOR SPACE.

WIRED DIAGRAM



COLLECTION SYSTEM



MANUAL CHANGE-OVER FROM SOLAR COOLING TO HEATING

COLLECTOR SPACE

DISTRIBUTION SYSTEM FOR FURNACES AND VENTILATORS

FOURNACE CONTROL

SWITCHES

SOLENOID VALVE

SOLENOID VALVE

SOLENOID VALVE

SOLENOID VALVE

SOLENOID VALVE

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MANUAL CHANGE-OVER FROM SOLAR COOLING TO HEATING

- CLOSE ALL SOFFIT VENTS.
- CHANGE BOTH HOUSE THERMOSTATS TO HEAT.
- POSITION HEAT-COOL SWITCH SW-1A, SW-2 TO HEAT.
- CLOSE RIDGE VENT IN COLLECTOR SPACE.

MANUAL CHANGE-OVER FROM SOLAR HEATING TO COOLING

- CLOSE ALL SOFFIT VENTS.
- CHANGE BOTH HOUSE THERMOSTATS TO COOL.
- POSITION HEAT-COOL SWITCH SW-1A, SW-2 TO COOL.
- CLOSE RIDGE VENT IN COLLECTOR SPACE.

WIRED DIAGRAM

MANUAL CHANGE-OVER FROM SOLAR COOLING TO HEATING

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