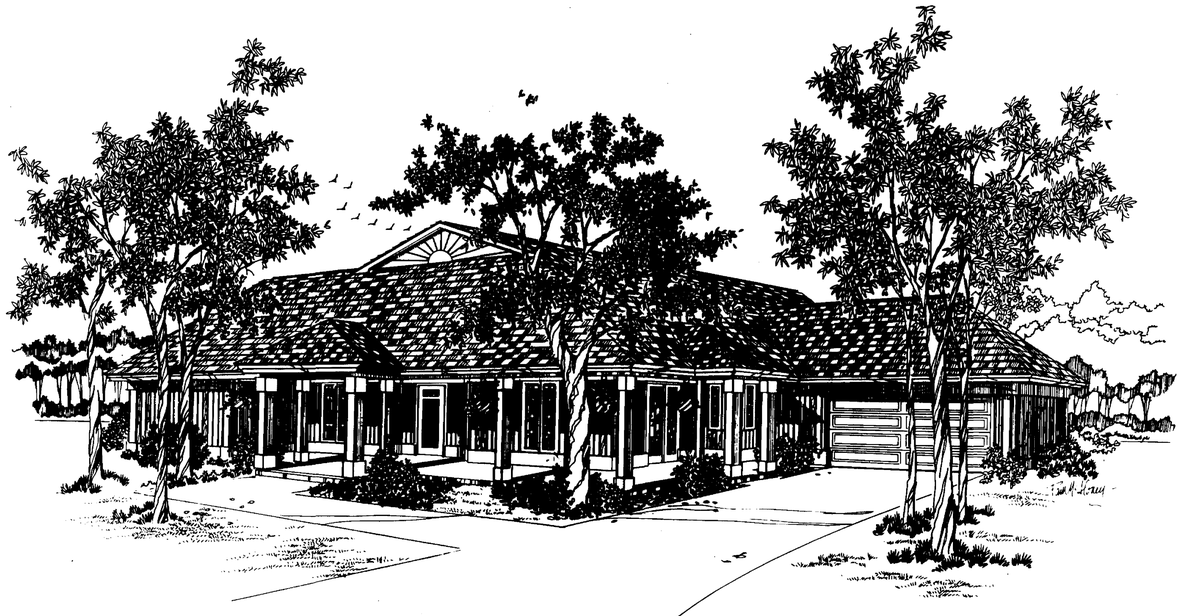
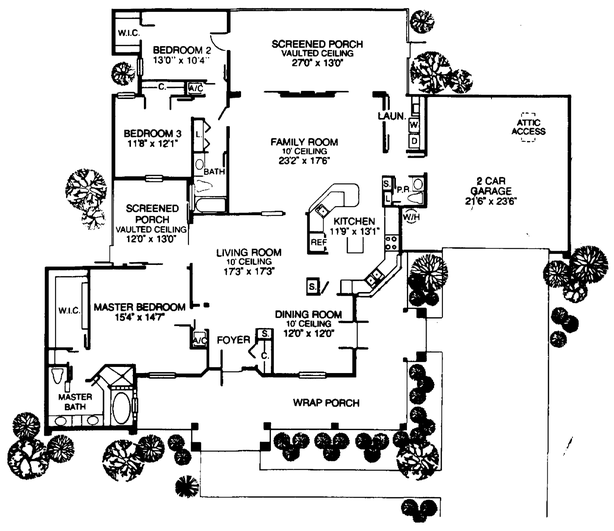
Sunburst



Drawing Index

Page	Contents
1	Cover Page
2	Floor Plan
3	Foundation
4	Roof Plan
5	Elevations
6	Elevations
7	Schedules/sections
8	Sections
9	Kitchen
10	Bath
11	Options
12	Sections
13	Mechanical
14	Electrical
15	HVAC Layout
16	HVAC Details



These drawings and specifications are experimental in nature and the energy performance of the design has not been tested or evaluated in actual construction. Also note that these homes were designed for use only in the State of Florida and may be more appropriate for use in some climatic regions within the state than others.

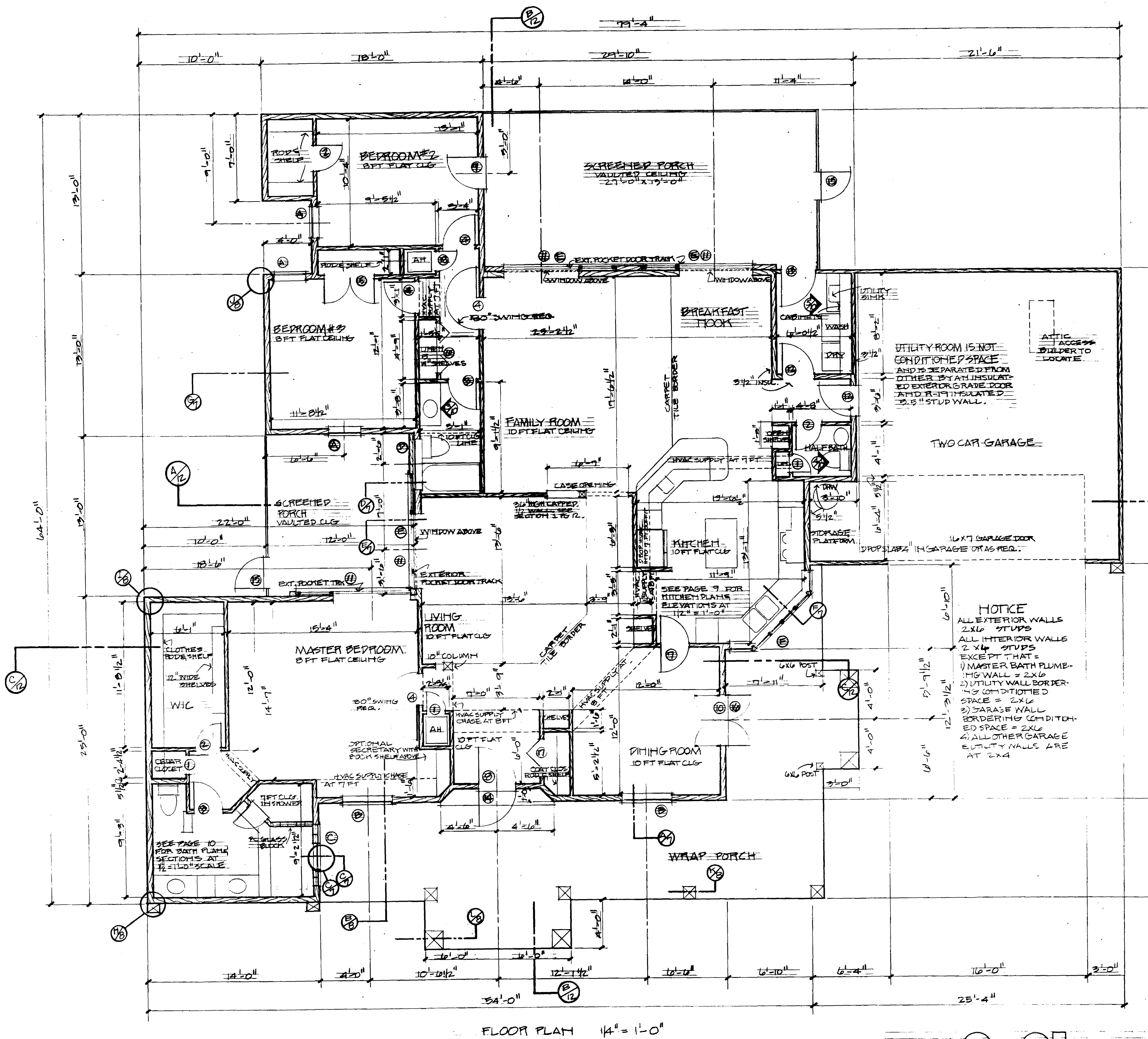
The Florida Solar Energy Center, and the Designer, Architects, Judges, Plans Designers, and Artists involved in developing these drawings and specifications (hereinafter referred to "FSEC/Contractors") make no statement, representation, claim or warranty, whether express, implied or statutory with respect to these plans and specifications. Any implied warranties of merchantability or fitness for a particular purpose are hereby disclaimed.

FSEC/Contractors assume no liability for, and by its use Purchaser hereby releases FSEC/Contractors from all liability for, damages, losses or injury, whether direct, indirect, consequential or incidental, including, but not limited to personal injury, death and damage to property, whether or not due to or caused by FSEC/Contractors negligence, that may arise from or be connected with uses of these drawings and specifications. FSEC/Contractor does not authorize any person, whether employees or agents of FSEC/Contractor or otherwise, to make any representation or warranty or to assume any liability with respect to these drawings and specifications.

pgl cover page

orientation independent

for FLORIDA ENERGY EFFICIENT RESIDENTIAL DESIGN
FLORIDA SOLAR ENERGY CENTER 300 SR 401 CAPE CANAVERAL, FL 32920-4099
DESIGNED BY N. LINDAHL BURTON PO BOX 4214 GAINESVILLE, FL 32613
DATE AUGUST 8, 1989 SCALE AS SPECIFIED DRWN BY NLB



FLOOR PLAN 1/4" = 1'-0"

SQUARE FOOTAGE	
CONDITIONED LIVING SPACE	2143
GARAGE	525
UTILITY	60
SCREENED PORCHES	507
TOTAL	3235

These drawings and specifications are experimental in nature and the energy performance of the design has not been tested or evaluated in actual construction. Also note that these homes were designed for use only in the State of Florida and may be more appropriate for use in some climatic regions within the state than others.

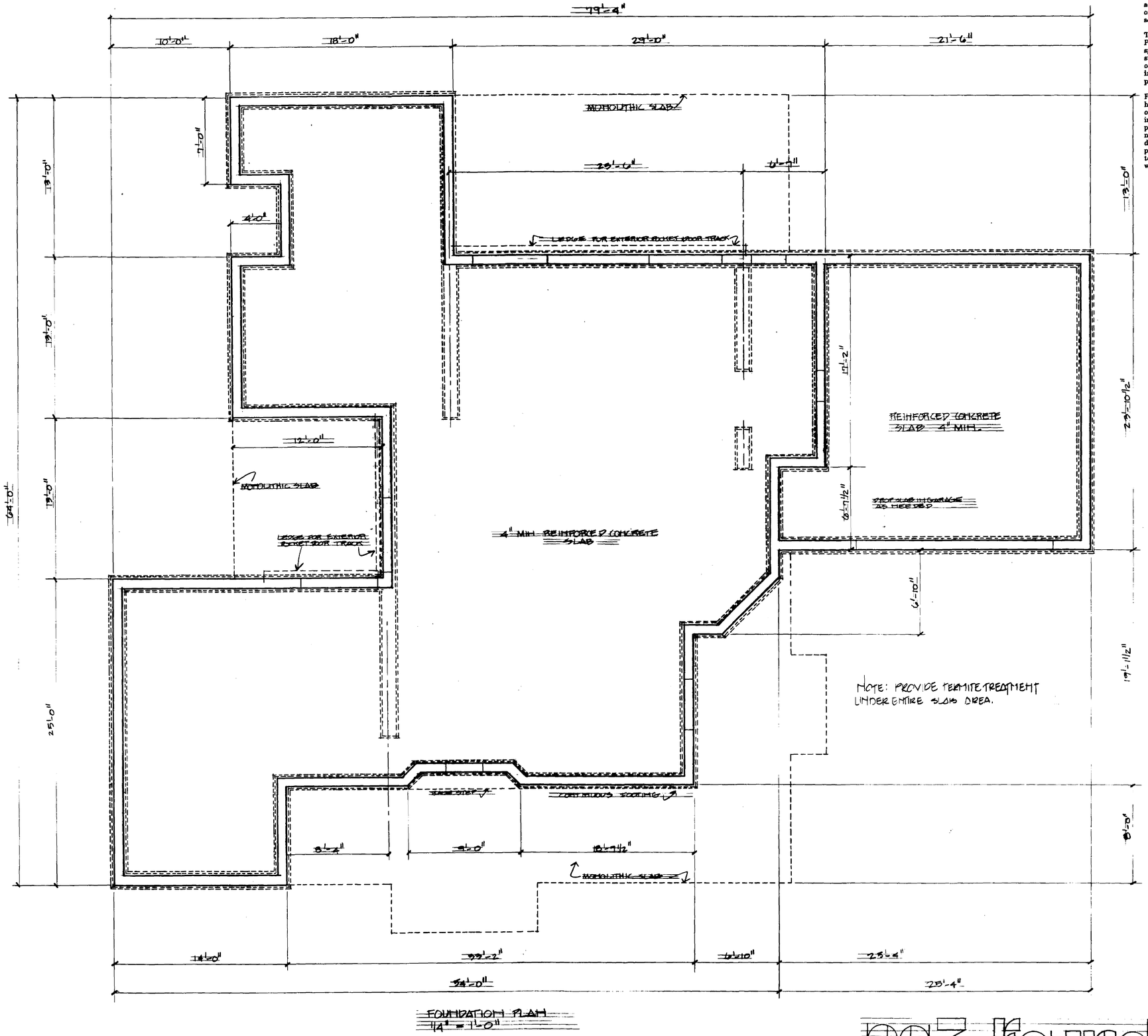
The Florida Solar Energy Center, and the Designer, Architects, Judges, Plans Designers, and Artists involved in developing these drawings and specifications (hereinafter referred to "FSEC/Contractors") make no statement, representation, claim or warranty, whether express, implied or statutory with respect to these plans and specifications. Any implied warranties of merchantability or fitness for a particular purpose are hereby disclaimed.

FSEC/Contractors assume no liability for, and by its use Purchaser hereby releases FSEC/Contractors from all liability for, damages, losses or injury, whether direct, indirect, consequential or incidental, including, but not limited to personal injury, death and damage to property, whether or not due to or caused by FSEC/Contractors negligence, that may arise from or be connected with uses of these drawings and specifications. FSEC/Contractor does not authorize any person, whether employees or agents of FSEC/Contractor or otherwise, to make any representation or warranty or to assume any liability with respect to these drawings and specifications.

FLORIDA ENERGY EFFICIENT RESIDENTIAL DESIGN
for FLORIDA SOLAR ENERGY CENTER 300 SR 401 CAPE CANAVERAL, FL 32920-4099
DESIGNED BY N. LINDAHL BURTON PO BOX 4261 GAINESVILLE, FL 32613
DATE AUGUST 8, 1989 SCALE AS SPECIFIED DRWN BY MLB

orientation independent

pg 2 floor plan



FOUNDATION PLAN
1/4" = 1'-0"

These drawings and specifications are experimental in nature and the energy performance of the design has not been tested or evaluated in actual construction. Also note that these homes were designed for use only in the State of Florida and may be more appropriate for use in some climatic regions within the state than others.

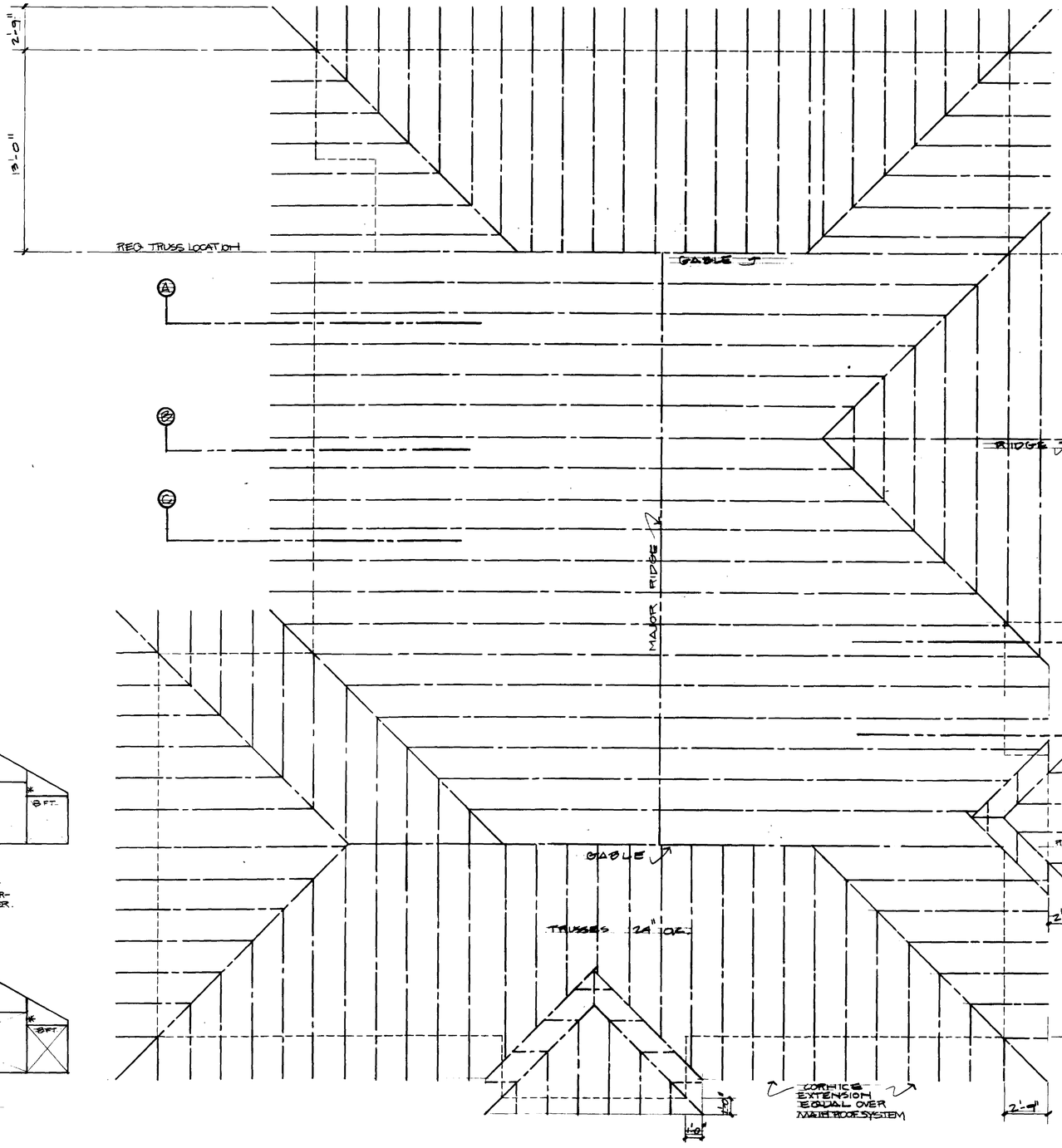
The Florida Solar Energy Center, and the Designer, Architects, Judges, Plans Designers, and Artists involved in developing these drawings and specifications (hereinafter referred to "FSEC/Contractors") make no statement, representation, claim or warranty, whether express, implied or statutory with respect to these plans and specifications. Any implied warranties of merchantability or fitness for a particular purpose are hereby disclaimed.

FSEC/Contractors assume no liability for, and by its use Purchaser hereby releases FSEC/Contractors from all liability for, damages, losses or injury, whether direct, indirect, consequential or incidental, including, but not limited to personal injury, death and damage to property, whether or not due to or caused by FSEC/Contractors negligence, that may arise from or be connected with uses of these drawings and specifications. FSEC/Contractor does not authorize any person, whether employees or agents of FSEC/Contractor or otherwise, to make any representation or warranty or to assume any liability with respect to these drawings and specifications.

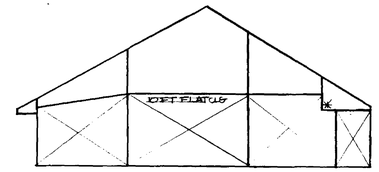
FLORIDA ENERGY EFFICIENT RESIDENTIAL DESIGN
for
FLORIDA SOLAR ENERGY CENTER 300 SR 401 CAPE CANAVERAL, FL 32920
REVISED BY T.L. HYDAHL STATION TO BOX 4261 GAINESVILLE, FL
DATE AUGUST 8, 1989 SCALE AS SPECIFIED DRAWN BY HLB

093 Foundation

orientation independent

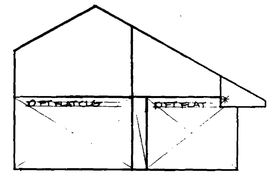


ROOF PLAN 1/4" = 1'-0"

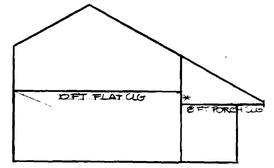


TRUSS C (SEE NOTES AT "A")

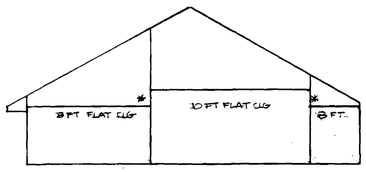
NOTICE =
8 FT. FLAT & 10 FT. FLAT CEILINGS ARE INDICATED THROUGHOUT. THE BUILDER MAY OPT FOR 8 FT. FLAT OR 10 FT. FLAT COMBINED WITH VAULTED.
* INSULATE & SEAL WALL AREA EXPOSED TO ATTIC.



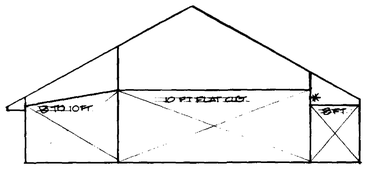
TRUSS D (SEE NOTES AT "A")



TRUSS E (SEE NOTES AT "A")



TRUSS A 3/32" = 1'-0"
TOP & BOTTOM CHORDS, RISERS & TAIL SHOWN. WEBBING TO BE ENGINEERED BY TRUSS MANUFACTURER.



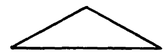
TRUSS B (SEE A FOR NOTES)

MANUFACTURED ROOF TRUSS RECOMMENDED.
NOTE FRONT & REAR GABLE ENDS ARE NOT EQUAL. OVERHANG @ 2'-9" TO ALLOW FOR COMPLIANCE WITH SIDE YARD RESTRICTIONS ON A 100' WIDE STANDARD LOT.

SLOPE = 6.5/12 THROUGHOUT

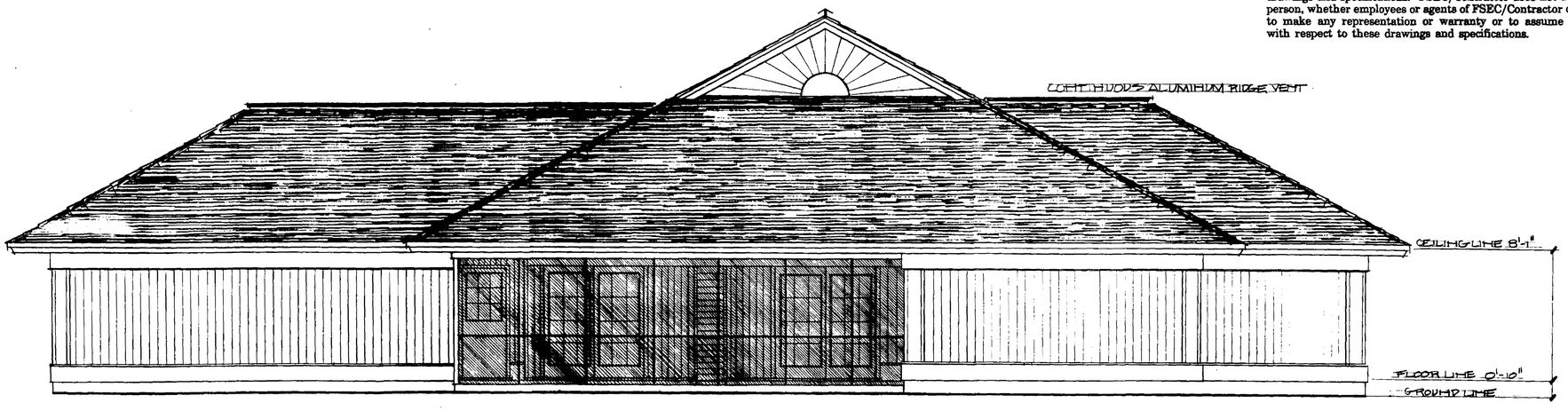
TRUSS LOCATION (REQUIRED)

REQUIRED TRUSSES ARE INDICATED ON PLAN. THE LOCATIONS OF ALL OTHER TRUSSES ARE TO BE DETERMINED BY THE MANF. USE OF THIS ROOF PLAN SHOULD BE LIMITED TO ROOF TRUSS DESIGN DEVELOPMENT.

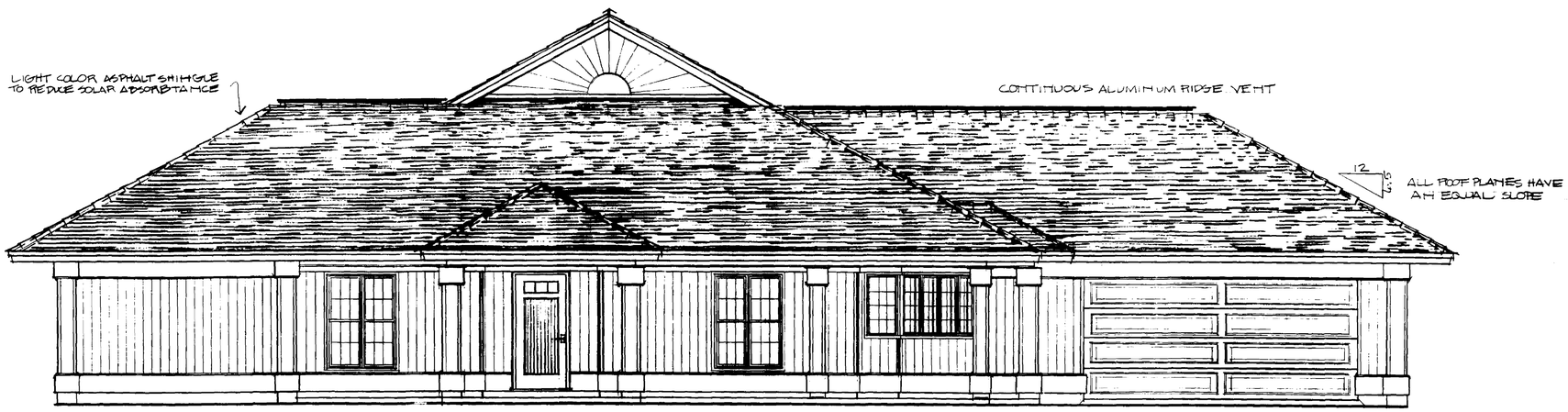


demonstration independent

a94 roof plan



REAR ELEVATION
SCALE 1/4" = 1'-0"

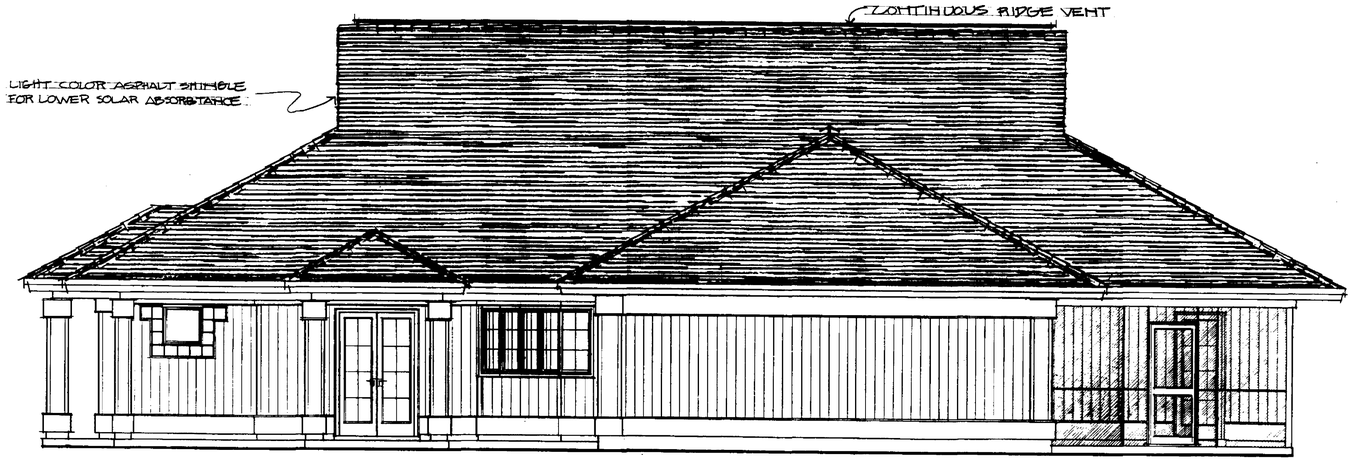


FRONT ELEVATION
SCALE 1/4" = 1'-0"

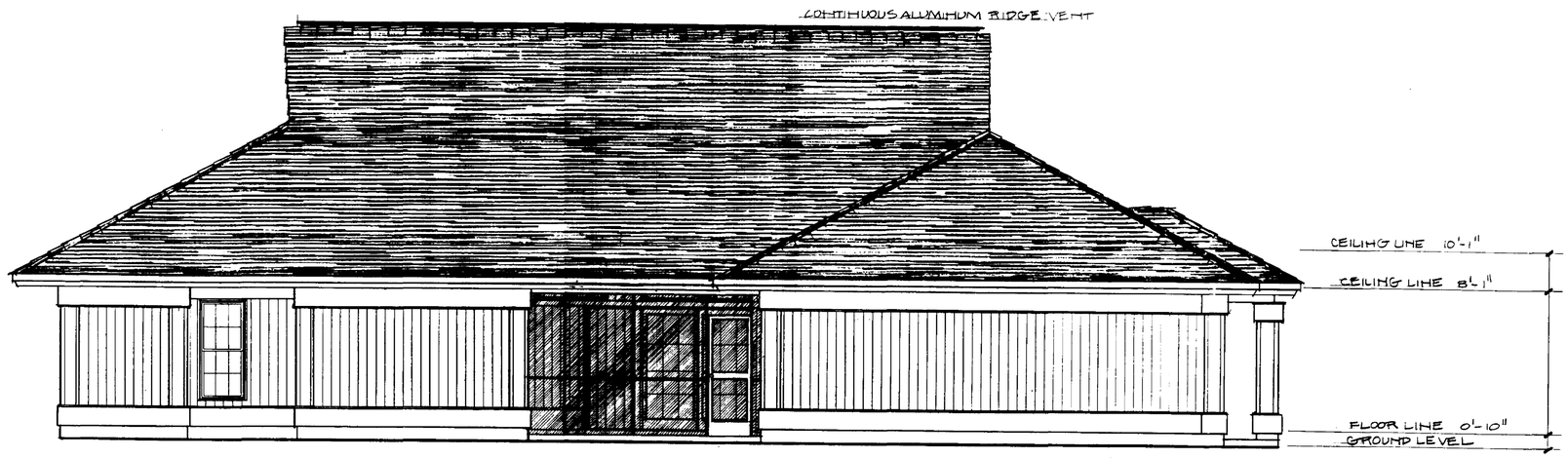
FLORIDA ENERGY EFFICIENT RESIDENTIAL DESIGN
FLORIDA SOLAR ENERGY CENTER 300 SR 401 CAPE CANAVERAL, FL 32920
DESIGNED BY N. LINDAHL BURTON PO BOX 4276 GAINESVILLE, FL 32613
DATE AUGUST 8, 1989 SCALE AS SPECIFIED DRWN BY HLB

orientation independent

pg 5 elevations



RIGHT SIDE ELEVATION
SCALE 1/4" = 1'-0"



LEFT SIDE ELEVATION
SCALE 1/4" = 1'-0"

These drawings and specifications are experimental in nature and the energy performance of the design has not been tested or evaluated in actual construction. Also note that these homes were designed for use only in the State of Florida and may be more appropriate for use in some climatic regions within the state than others.

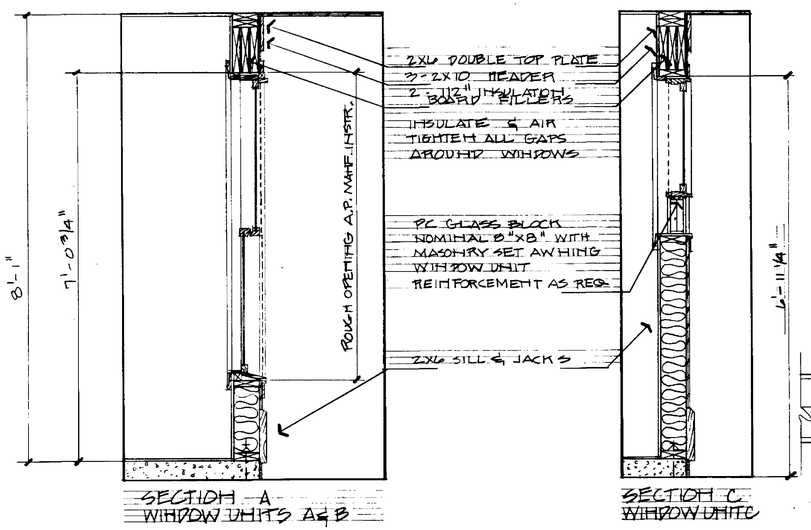
The Florida Solar Energy Center, and the Designer, Architects, Judges, Plans Designers, and Artists involved in developing these drawings and specifications (hereinafter referred to "FSEC/Contractors") make no statement, representation, claim or warranty, whether express, implied or statutory with respect to these plans and specifications. Any implied warranties of merchantability or fitness for a particular purpose are hereby disclaimed.

FSEC/Contractors assume no liability for, and by its use Purchaser hereby releases FSEC/Contractors from all liability for, damages, losses or injury, whether direct, indirect, consequential or incidental, including, but not limited to personal injury, death and damage to property, whether or not due to or caused by FSEC/Contractors negligence, that may arise from or be connected with uses of these drawings and specifications. FSEC/Contractor does not authorize any person, whether employees or agents of FSEC/Contractor or otherwise, to make any representation or warranty or to assume any liability with respect to these drawings and specifications.

FLORIDA ENERGY EFFICIENT RESIDENTIAL DESIGN
by FLORIDA SOLAR ENERGY CENTER 300 SR401 CAPE CANAVERAL, FL 32920-4099
DESIGNED BY T. LITZAHL BURTON POBOX 4261 GAINESVILLE, FL 32613
DATE AUGUST 8, 1989 SCALE AS SPECIFIED DRWN BY HLB

orientation independent

pg 6 elevations

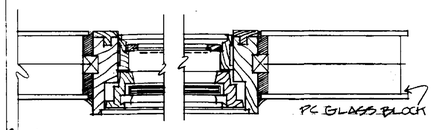


SECTION -A-
WINDOW UNITS A & B

SECTION C
WINDOW UNITS

WINDOW SECTIONS SCALE 3/4"=1'-0"

CHECK MANUFACTURER FOR ACTUAL UNIT DIMENSIONS AND R.O. REQUIREMENTS. WOOD FRAME DEPICTED IN SECS. MAY BE REPLACED WITH EXTRUDED ALUMINUM FRAME.



DETAIL
SCALE 3"=1'-0"
UNIT C MASONRY INSTALLATION USING KEYLOCK STRIP AT JAMBS SET IN MORTAR. CHECK MANUFACTURER'S INSTRUCTIONS FOR RECOMMENDED INSTALLATION. REINFORCE MORTAR JT. HORIZONTALLY BETWEEN GLASS BLOCK & WINDOW UNIT AS REQ.

WINDOW SCHEDULE *

UNIT	NO. OF UNITS	STYLE	STANDARD DIMENSIONS	APPROX SQ FT VENT	COMMENTS
A	3	SINGLE OR DOUBLE HUNG	2656	5-6	CASEMENT MAY BE SUBST FOR INCREASED VENT EXCEPT AT PORCH LOCATION
B	2	SINGLE OR DOUBLE HUNG	2056-2 NARROW MULLION	9-10	
C*(NOTE)	1	OBSCURED AWNING	2020	1.5-2	FOR MASONRY INSTALLATION OR WITH PC GLASS BLOCK MORTARLESS EXTRUDALUM FRAME
D	1	AWNING	2020-2 NARROW MULLION	3-4	
E	3	AWNING	3020-2 NARROW MULLION	4-5	INSTALL OVER 6068 SLIDING PATIO DOORS
F	1	CASEMENT	1934/2934-2/1934	28-30	SITE BUILT 45° BAY. OTHER STYLES CANNOT BE SUBSTITUTED BECAUSE OF KITCHEN VENT REQUIREMENTS.

* CONSULT MANUFACTURER'S INSTRUCTIONS FOR R.O. REQUIREMENTS. USE 2X6 WALL INSTALLATION DETAILS. ALTHOUGH WOOD FRAMES ARE SHOWN IN THE ACCOMPANYING WALL SECTIONS, ALUMINUM FRAMES MAY BE SUBSTITUTED.

NOTE = UNIT C IS MASONRY INSTALLED INTO PC 8"X8" GLASS BLOCK / 13 BLOCK REQ. PC "ARGUS" PATTERN RECOMMENDED FOR LIGHT TRANSMISSION & PRIVACY.

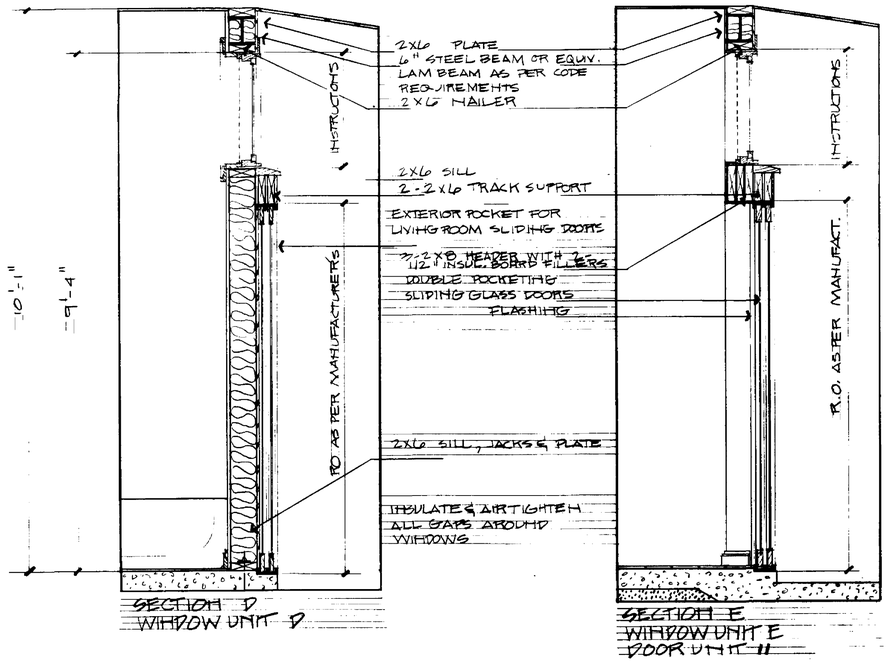
DOOR SCHEDULE *1

UNIT	TYPE	DIMENSION	LH	RH
1	INTERIOR HINGE	1668 X 13/8"	2	1
2	INTERIOR HINGE	2068 X 13/8"	1	2
3	INTERIOR HINGE	2668 X 13/8"	2	0
4*2	INTERIOR HINGE	2668 X 13/8"	1	3
5	DOUBLE HINGED	2068 - 2 X 13/8"	—	
6	INTERIOR BIFOLD	4068	—	
7	INTERIOR HINGE DOUBLE ACTING	2468 X 13/8"	—	
8	EXTERIOR INSUL.	3068	1	
9	EXTERIOR INSUL SINGLE FRENCH	2668		1
10	EXTERIOR INSUL DOUBLE FRENCH	2068-2	SWING IN 1 UNIT	
11	EXTERIOR INSUL SLIDING PATIO (EXTERIOR POCKET)	6068	BOTH SIDES OPERABLE 3 UNITS	
12	EXTERIOR INSUL UTILITY	2668	1	1
13	EXTERIOR INSUL	2868		1
14	SCREENED WOOD FRAME DECORATIVE GRILL	3069		1
15	SCREENED ALUM	2667	1	1
16	SCREENED WOOD FRAME DOUBLE FRENCH DECORATIVE GRILLS (SEE NOTE)	2067-2	SWING OUT	
17	INTERIOR BIFOLD	3068	—	
18	INTERIOR 1/2 DOOR	(OVER HVAC RETURN AIR GRILL)		

*1 FOR THE HUNG EXTERIOR DOORS JAMB EXTENSIONS MAY BE REQUIRED (REQ. JAMB WIDTH = 6 5/8").

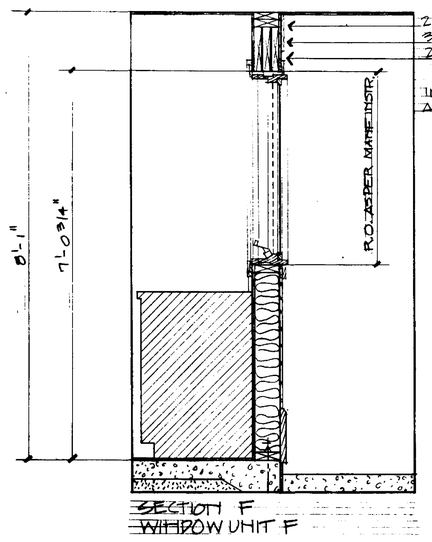
NOTE = SEVERAL FRENCH DOOR MANF. STOCK AT FRENCH SCREEN DOOR UNIT TO BE USED IN COMB. WITH SWING IN FRENCH DOORS.

*2 MBR (LH) & FAMILY ROOM (RH) INTERIOR HINGE TO 180° REQ.

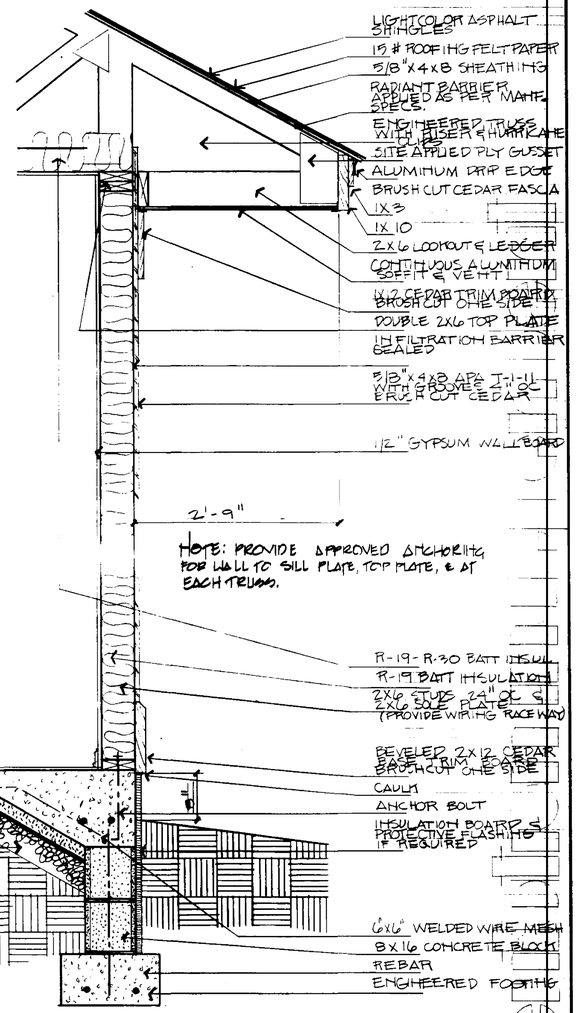


SECTION D
WINDOW UNIT D

SECTION E
WINDOW UNIT E
DOOR UNIT 11



SECTION F
WINDOW UNIT F



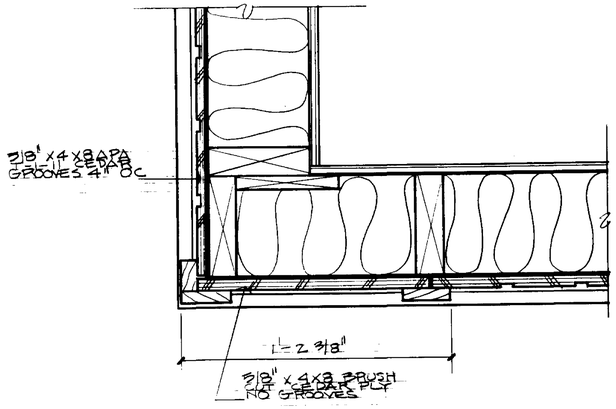
SECTION G (TYPICAL)
SCALE 1"=1'-0"

pg7 schedules/sections

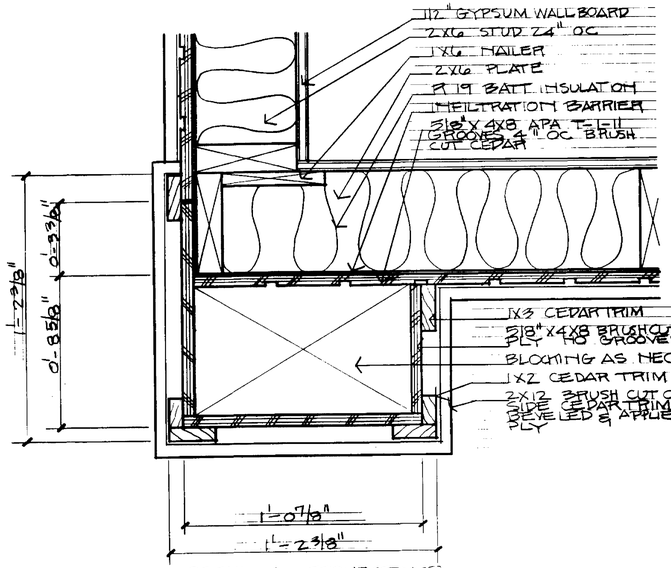
These drawings and specifications are experimental in nature and the energy performance of the design has not been tested or evaluated in actual construction. Also note that these homes were designed for use only in the State of Florida and may be more appropriate for use in some climatic regions within the state than others.

The Florida Solar Energy Center, and the Designer, Architects, Judges, Plans Designers, and Artists involved in developing these drawings and specifications (hereinafter referred to "FSEC/Contractors") make no statement, representation, claim or warranty, whether express, implied or statutory with respect to these plans and specifications. **Any implied warranties of merchantability or fitness for a particular purpose are hereby disclaimed.**

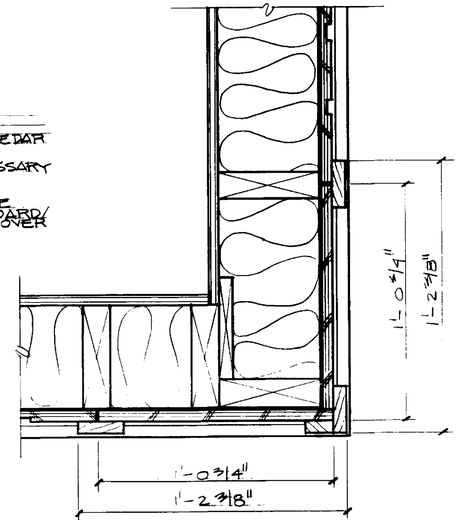
FSEC/Contractors assume no liability for, and by its use Purchaser hereby releases FSEC/Contractors from all liability for, damages, losses or injury, whether direct, indirect, consequential or incidental, including, but not limited to personal injury, death and damage to property, whether or not due to or caused by FSEC/Contractors negligence, that may arise from or be connected with uses of these drawings and specifications. FSEC/Contractor does not authorize any person, whether employees or agents of FSEC/Contractor or otherwise, to make any representation or warranty or to assume any liability with respect to these drawings and specifications.



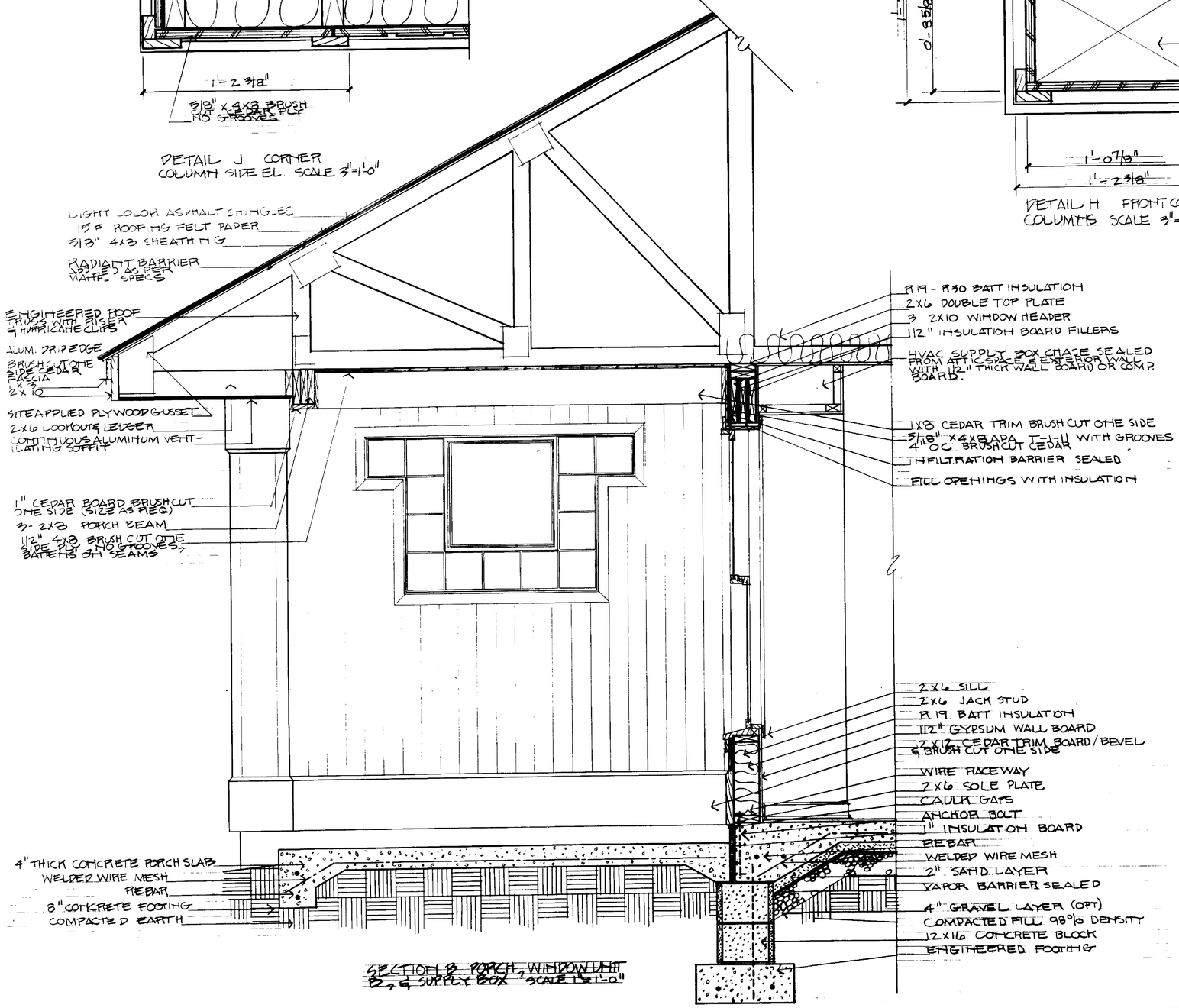
DETAIL J CORNER COLUMN SIDE EL. SCALE 3"=1'-0"



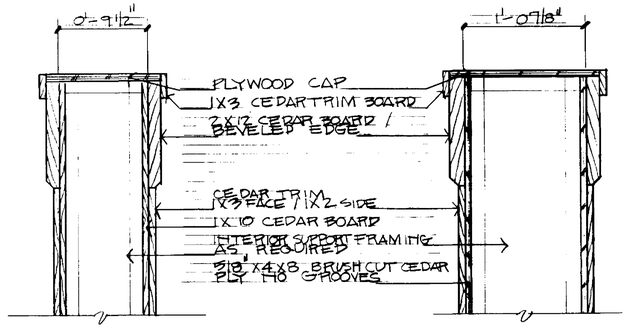
DETAIL H FRONT CORNER COLUMNS SCALE 3"=1'-0"



DETAIL I SIDE & BACK CORNER COLUMNS SCALE 3"=1'-0"



SECTION B PORCH, WINDOW HDR B, & SUPPLY BOX SCALE 1"=1'-0"



SECTION K PORCH COLUMN SCALE 1 1/2"=1'-0"

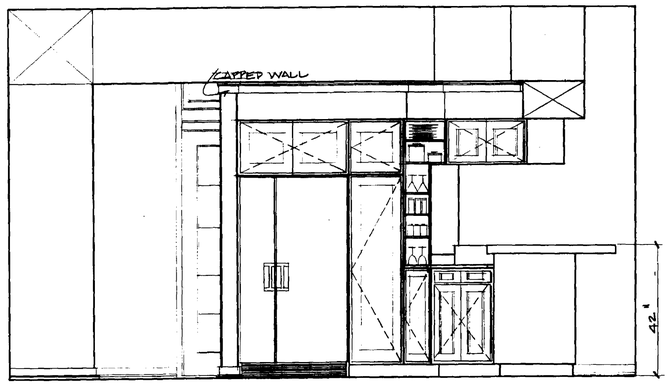
SECTION L ENTRY COLUMN SCALE 1 1/2"=1'-0"

pg 8 sections

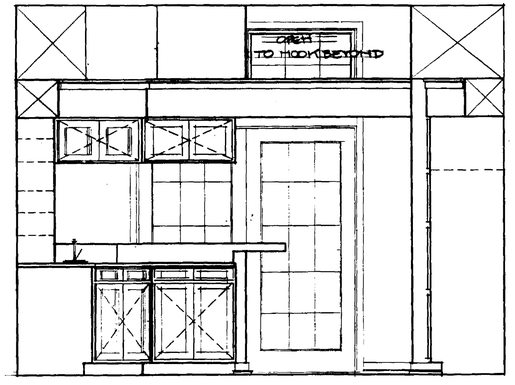
FLORIDA ENERGY EFFICIENT RESIDENTIAL DESIGN
FLORIDA SOLAR ENERGY CENTER 300 SR 401 CAPE CANAVERAL, FL 32920
DESIGNED BY FL. LUMBER BUREAU PO BOX 1237 GAINESVILLE, FL 32602

DATE AUGUST 8, 1989 SCALE AS SPECIFIED DRWN BY HLB

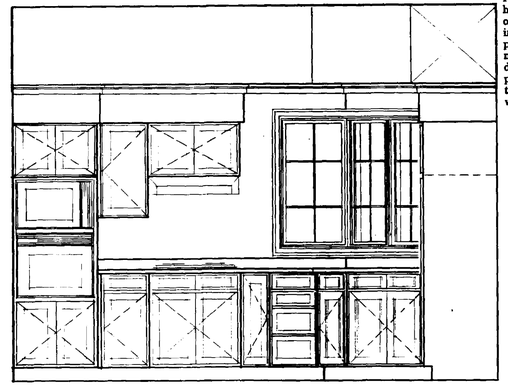
independent innovation



ELEVATION ONE



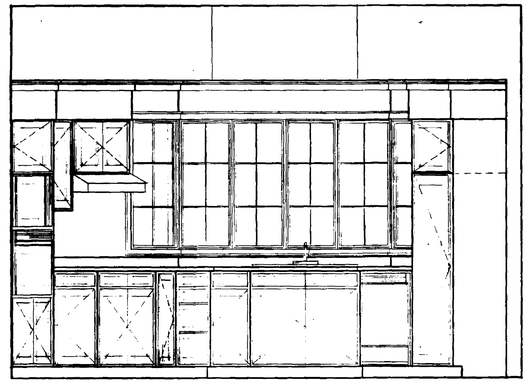
ELEVATION TWO



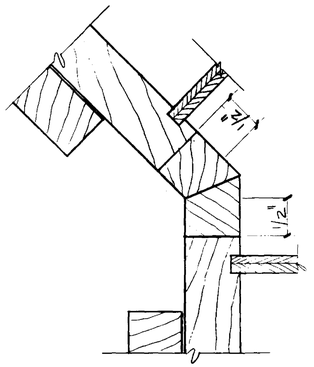
ELEVATION THREE

FLORIDA ENERGY EFFICIENT RESIDENTIAL DESIGN
KV FLORIDA SOLAR ENERGY CENTER 300 SR 401 CAPE CANAVERAL, FL
DESIGNED BY H.L. LITHPAHL BURTON PO BOX 4261 GAINESVILLE, FL
DATE AUGUST 8, 1989 SCALE AS SPECIFIED DRWG TITLE

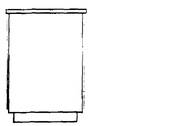
KITCHEN CABINET ELEVATION SCALE 1/2"=1'-0"



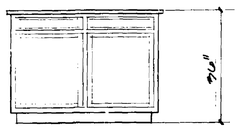
ELEVATION FOUR



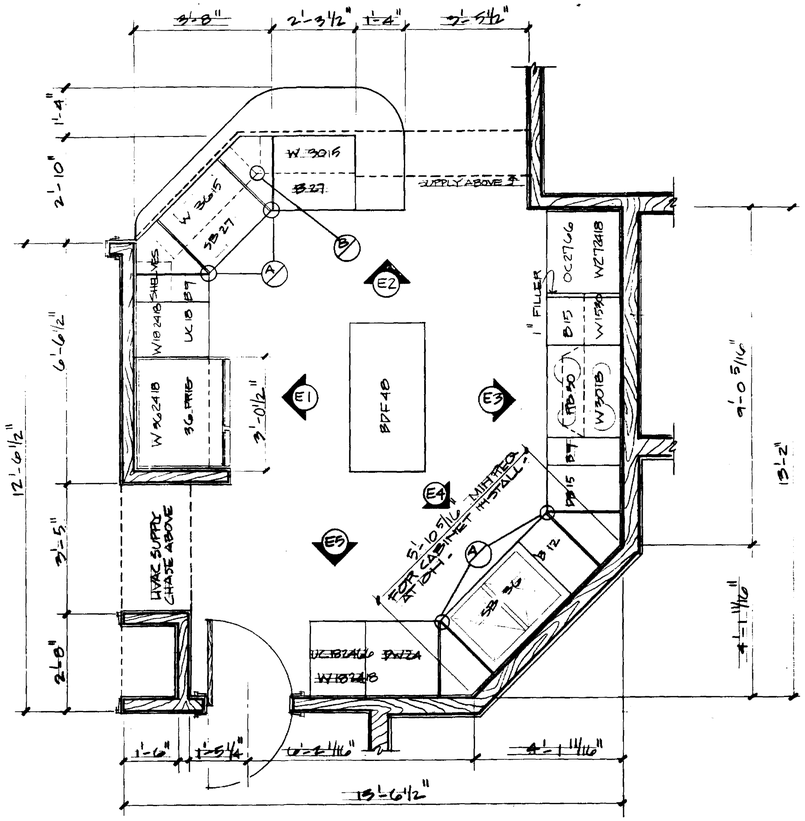
CABINET FILLER DETAIL A
SCALE = ACTUAL SIZE



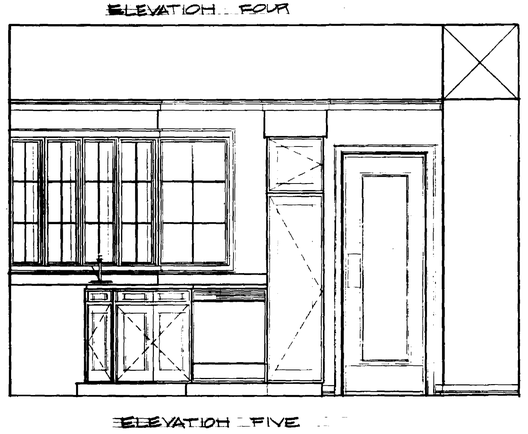
ISLAND
SIDE VIEWS



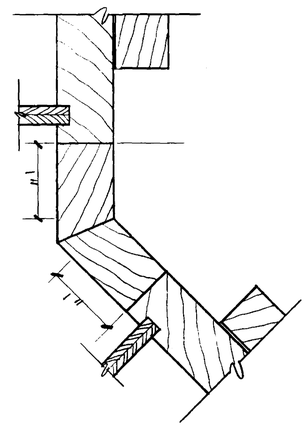
ISLAND FRONT
BACK VIEW (BDF48)



KITCHEN CABINET PLAN
SCALE 1/2" = 1'-0"



ELEVATION FIVE

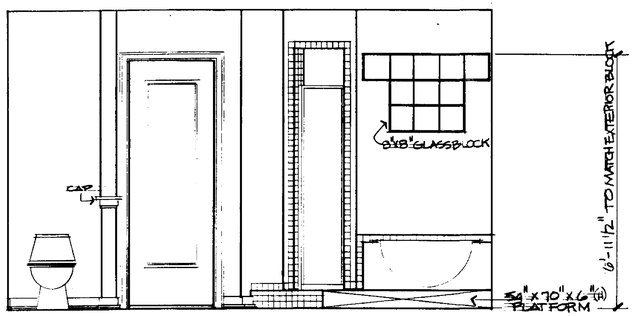


CABINET FILLER DETAIL B
SCALE = ACTUAL SIZE

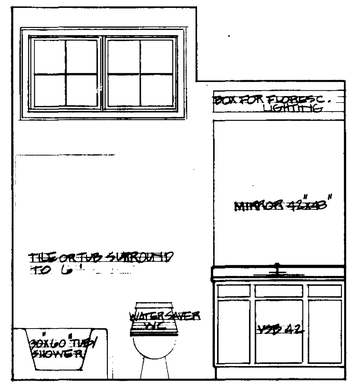
pg 9 Kitchen

orientation made easier

MASTER PLAN & CABINET ELEVATIONS SECOND BATH & 1/2 BATH ELEVATIONS SCALE 1/2" = 1'-0"



MASTER BATH ELEVATION ONE

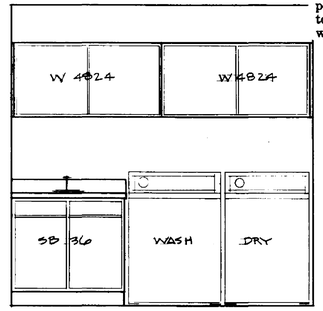


BATH ELEVATION THREE

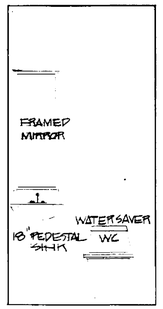
ALL VANITY CABINETS SHOWN ARE STOCK SIZES.
18" X18" SPACE SAVER VANITY MAY BE SUBSTITUTED FOR PEDESTAL SINK IN 1/2 BATH.
SEE ELECTRICAL & PLUMBING PLANS FOR ACTUAL LAYOUTS OF FIXTURES.

DIMENSIONS ON MBATH ARE STUD FACE TO STUD FACE. ALLOWANCES FOR WALL FINISH MATERIALS ARE INCLUDED IN CALCULATIONS OF CABINET SIZES SUITABLE FOR INSTALLATION.

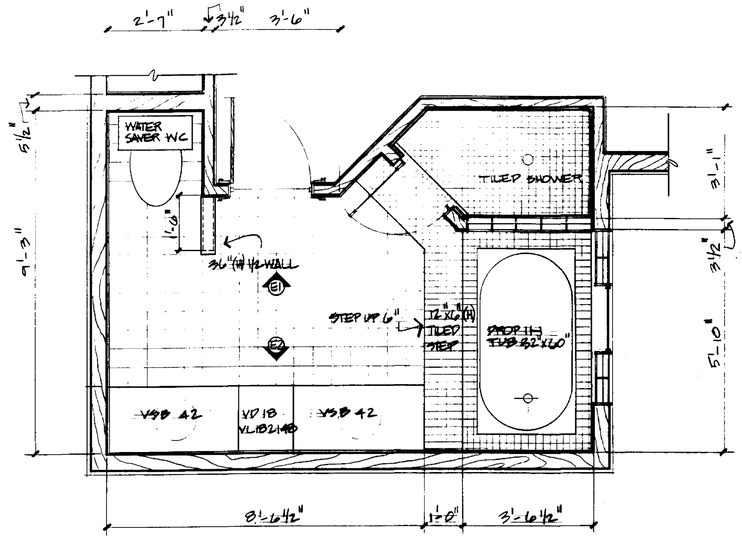
UTILITY ELEVATION SCALE 1/2" = 1'-0

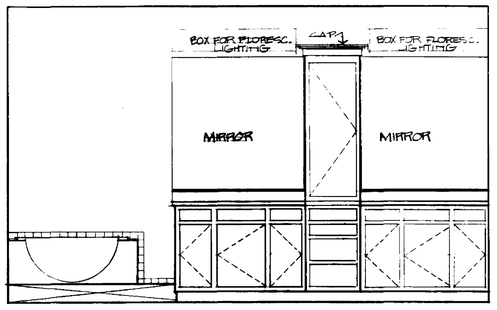


UTILITY ELEVATION ONE



1/2 BATH ELEVATION FOUR

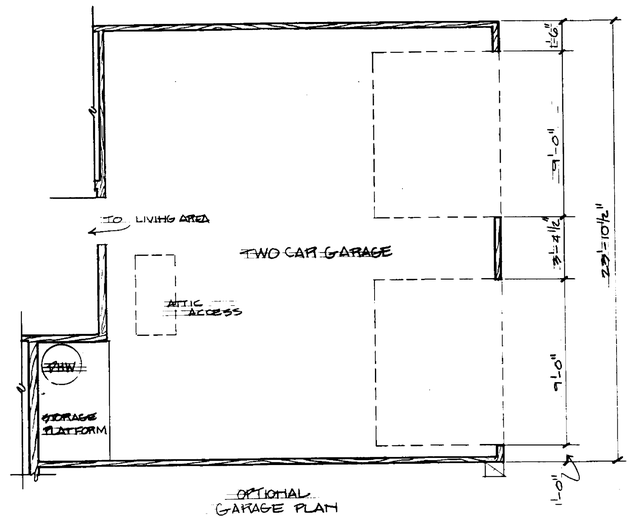




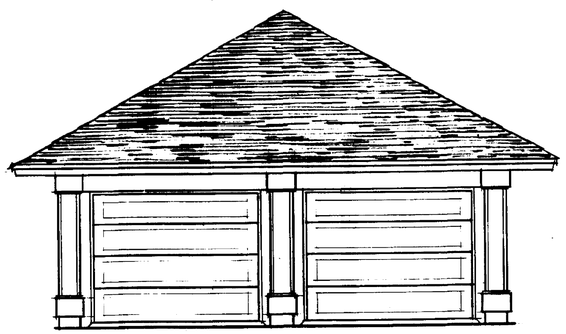
MASTER BATH ELEVATION TWO

FLORIDA ENERGY EFFICIENT RESIDENTIAL DESIGN
for
FLORIDA SOLAR ENERGY CENTER 300 SR 401 CAPE CANAVERAL, FL 32920
DESIGNED BY DUNHAM-BUSH TO BOX 4006 GAINESVILLE, FL 32605
DATE AUGUST 8, 1997 SCALE AS SPECIFIED DRW BY MLB

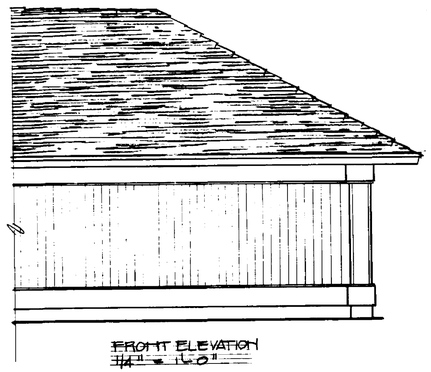
model



OPTIONAL GARAGE PLAN



RIGHT SIDE ELEVATION
¼" = 1'-0"
(DOUBLE GARAGE DOORS @ 9'
MAY BE USED ON FRONT ELEVATION
INSTEAD OF DOUBLE DOORS @ 8'
ON SIDE ELEVATION)

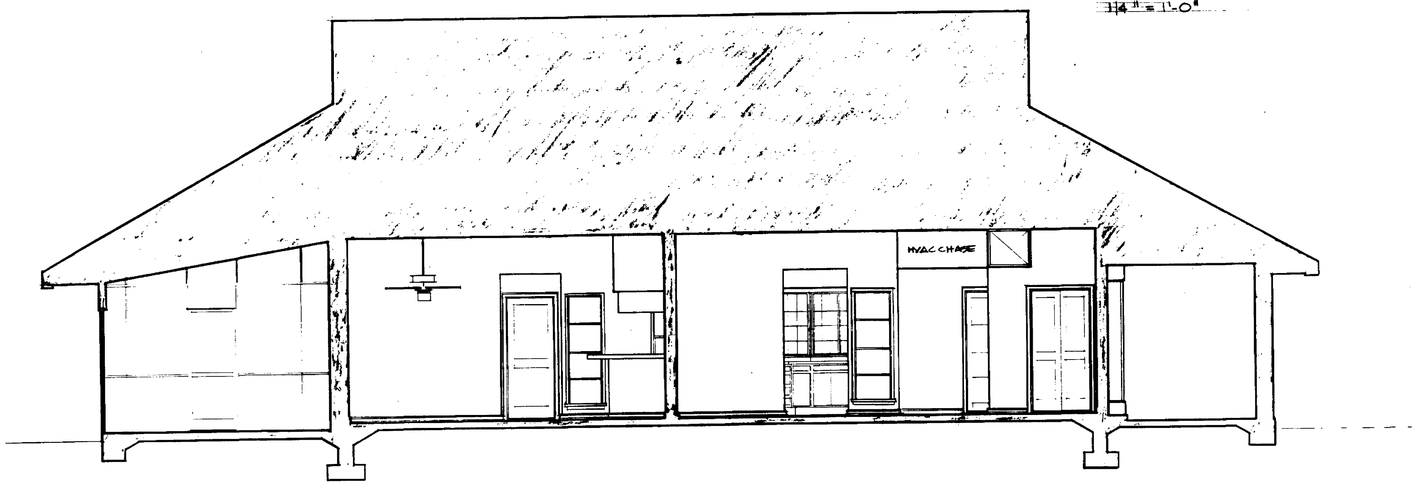


FRONT ELEVATION
¼" = 1'-0"

FLORIDA ENERGY EFFICIENT RESIDENTIAL DESIGN
for FLORIDA SOLAR ENERGY CENTER 300 SR 401 CAPE CANAVERAL, FL 32920
DESIGNED BY T. LIHDAHL & UNION 10 BOX 420 GAINESVILLE, FL
DATE AUGUST 5, 1989 SCALE AS SPECIFIED DRAWN BY TLB

pg 11 options

SECTION A
1/4" = 1'-0"



SECTION B
1/4" = 1'-0"

SECTION C
1/4" = 1'-0"

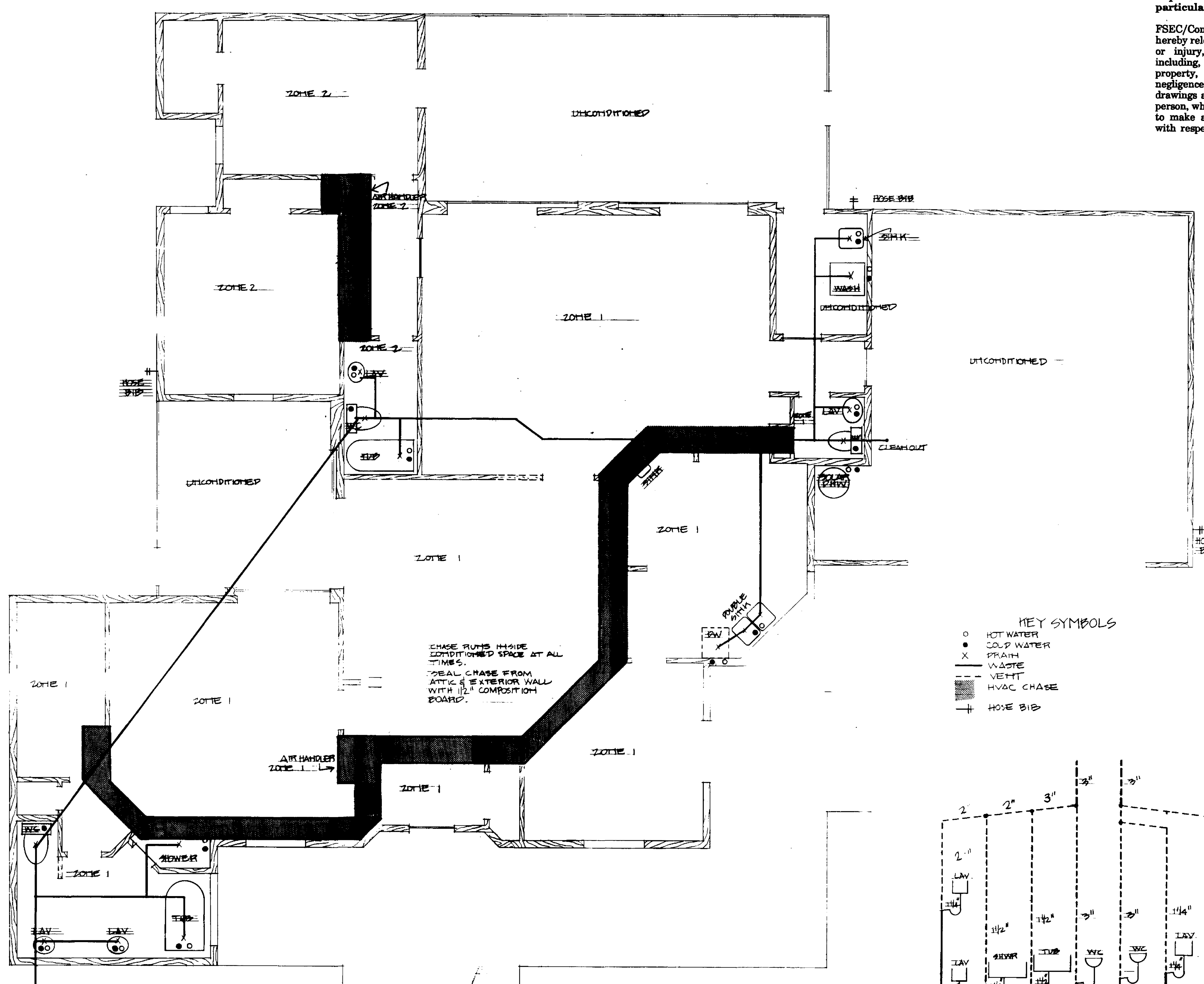
FLORIDA ENERGY EFFICIENT RESIDENTIAL DESIGN
for FLORIDA SOLAR ENERGY CENTER 300 SR 401 CAPE CANAVERAL, FL 32920
DESIGNED BY: LUTHER BURTON 1028 NW 62nd GAINESVILLE, FL 32605 352
DATE: AUGUST 8, 1991 SCALE: AS SPECIFIED DRAWN BY: MLB

ag12 sections

These drawings and specifications are experimental in nature and the energy performance of the design has not been tested or evaluated in actual construction. Also note that these homes were designed for use only in the State of Florida and may be more appropriate for use in some climatic regions within the state than others.

The Florida Solar Energy Center, and the Designer, Architects, Judges, Plans Designers, and Artists involved in developing these drawings and specifications (hereinafter referred to "FSEC/Contractors") make no statement, representation, claim or warranty, whether express, implied or statutory with respect to these plans and specifications. **Any implied warranties of merchantability or fitness for a particular purpose are hereby disclaimed.**

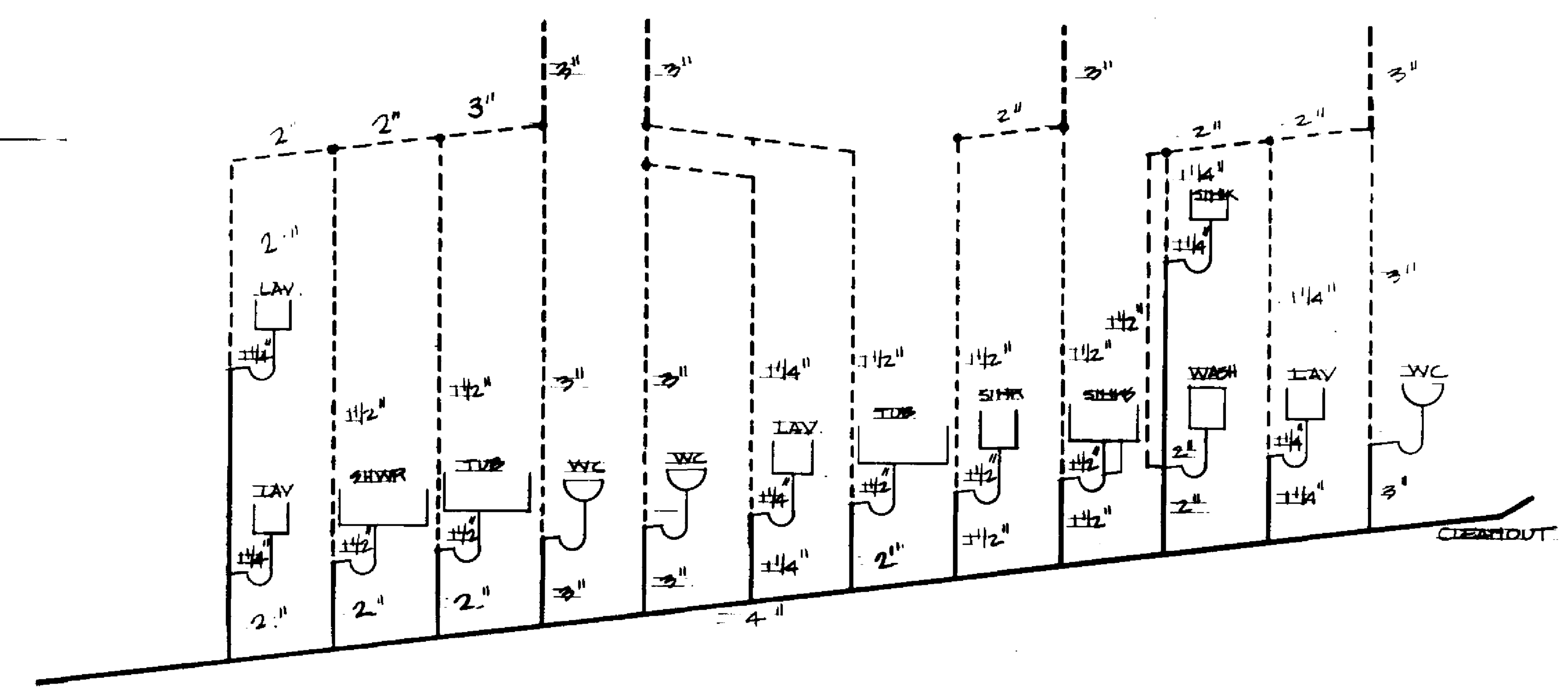
FSEC/Contractors assume no liability for, and by its use Purchaser hereby releases FSEC/Contractors from all liability for, damages, losses or injury, whether direct, indirect, consequential or incidental, including, but not limited to personal injury, death and damage to property, whether or not due to or caused by FSEC/Contractors negligence, that may arise from or be connected with uses of these drawings and specifications. FSEC/Contractor does not authorize any person, whether employees or agents of FSEC/Contractor or otherwise, to make any representation or warranty or to assume any liability with respect to these drawings and specifications.



SANITARY DRAINAGE PLAN & HVAC CHASE (SUPPLY & RETURN)

KEY SYMBOLS

- o HOT WATER
- • COLD WATER
- X DRAIN
- —— WASTE
- - - VENT
- ▓ HVAC CHASE
- ┼ HOSE BIB



PLUMBING RISER

VENTS T-IN AFTER TRAP
WATER CLOSETS HAVE BUILT IN TRAP.

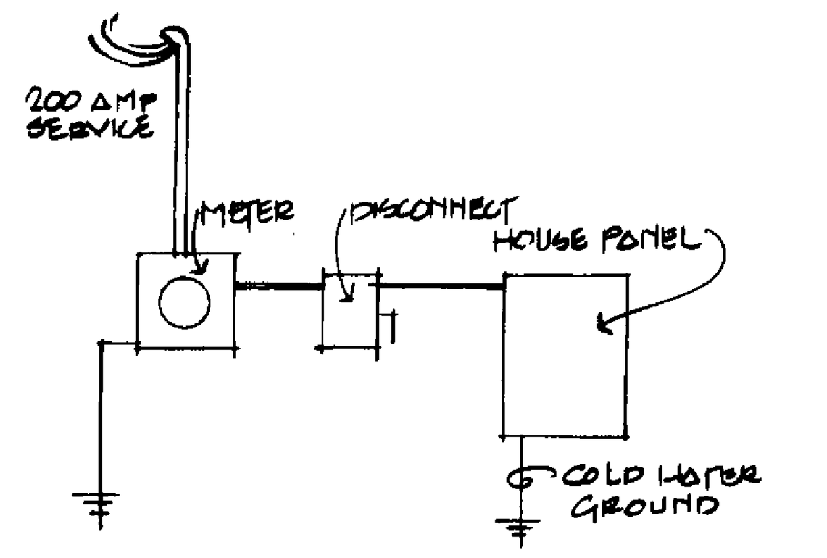
FLORIDA ENERGY EFFICIENT RESIDENTIAL DESIGN
for FLORIDA SOLAR ENERGY CENTER 300 SR 401 CAPE CANAVERAL, FL 32920
DESIGNED BY N. LINDAHL BURTON PO BOX 4261 GAINESVILLE, FL
DATE AUGUST 8, 1989 SCALE AS SPECIFIED DRW BY NLB

pg 13 mechanical

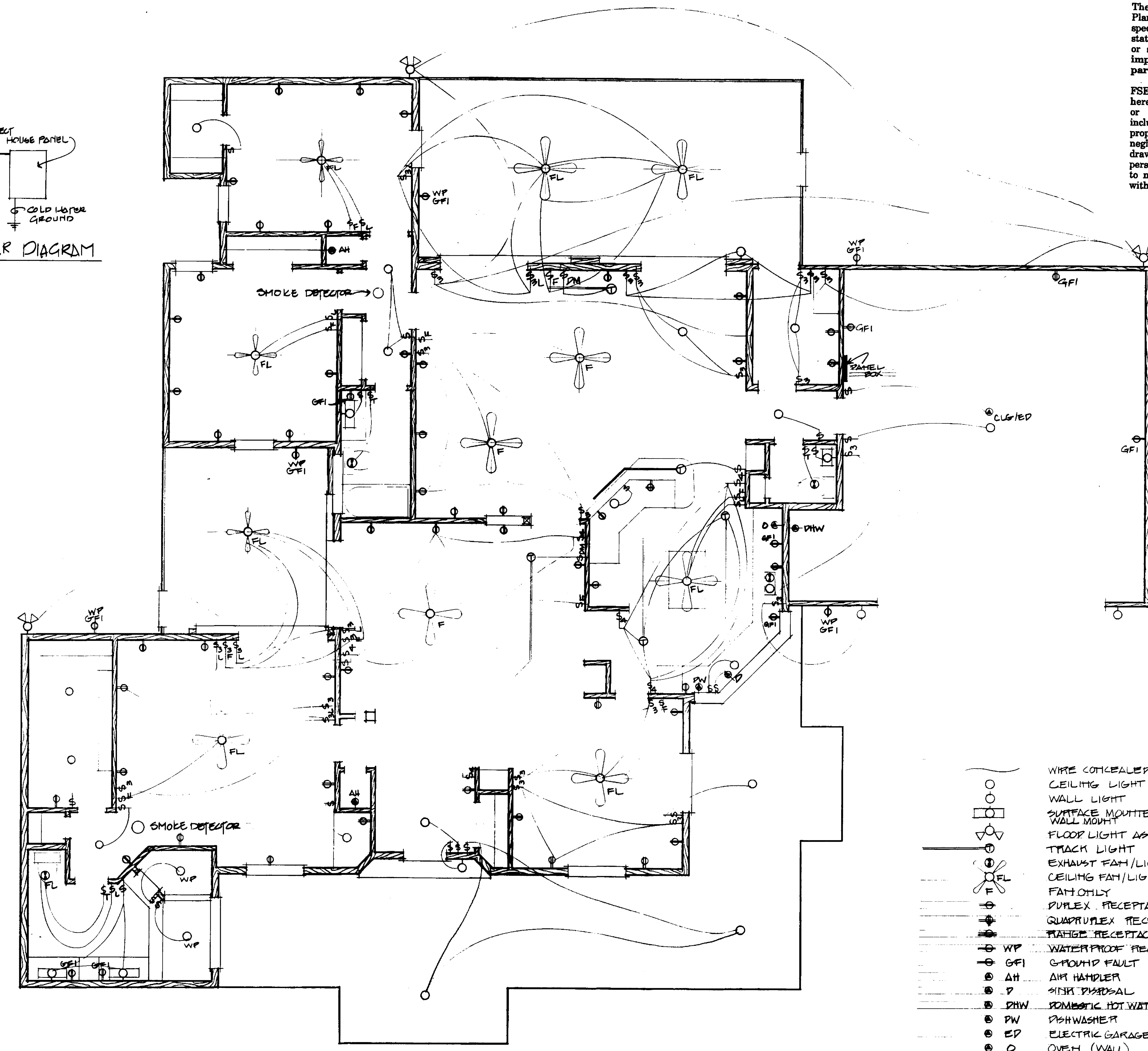
These drawings and specifications are experimental in nature and the energy performance of the design has not been tested or evaluated in actual construction. Also note that these homes were designed for use only in the State of Florida and may be more appropriate for use in some climatic regions within the state than others.

The Florida Solar Energy Center, and the Designer, Architects, Judges, Plans Designers, and Artists involved in developing these drawings and specifications (hereinafter referred to "FSEC/Contractors") make no statement, representation, claim or warranty, whether express, implied or statutory with respect to these plans and specifications. **Any implied warranties of merchantability or fitness for a particular purpose are hereby disclaimed.**

FSEC/Contractors assume no liability for, and by its use Purchaser hereby releases FSEC/Contractors from all liability for, damages, losses or injury, whether direct, indirect, consequential or incidental, including, but not limited to personal injury, death and damage to property, whether or not due to or caused by FSEC/Contractors negligence, that may arise from or be connected with uses of these drawings and specifications. FSEC/Contractor does not authorize any person, whether employees or agents of FSEC/Contractor or otherwise, to make any representation or warranty or to assume any liability with respect to these drawings and specifications.



ELECTRICAL RISER DIAGRAM
N.T.S.



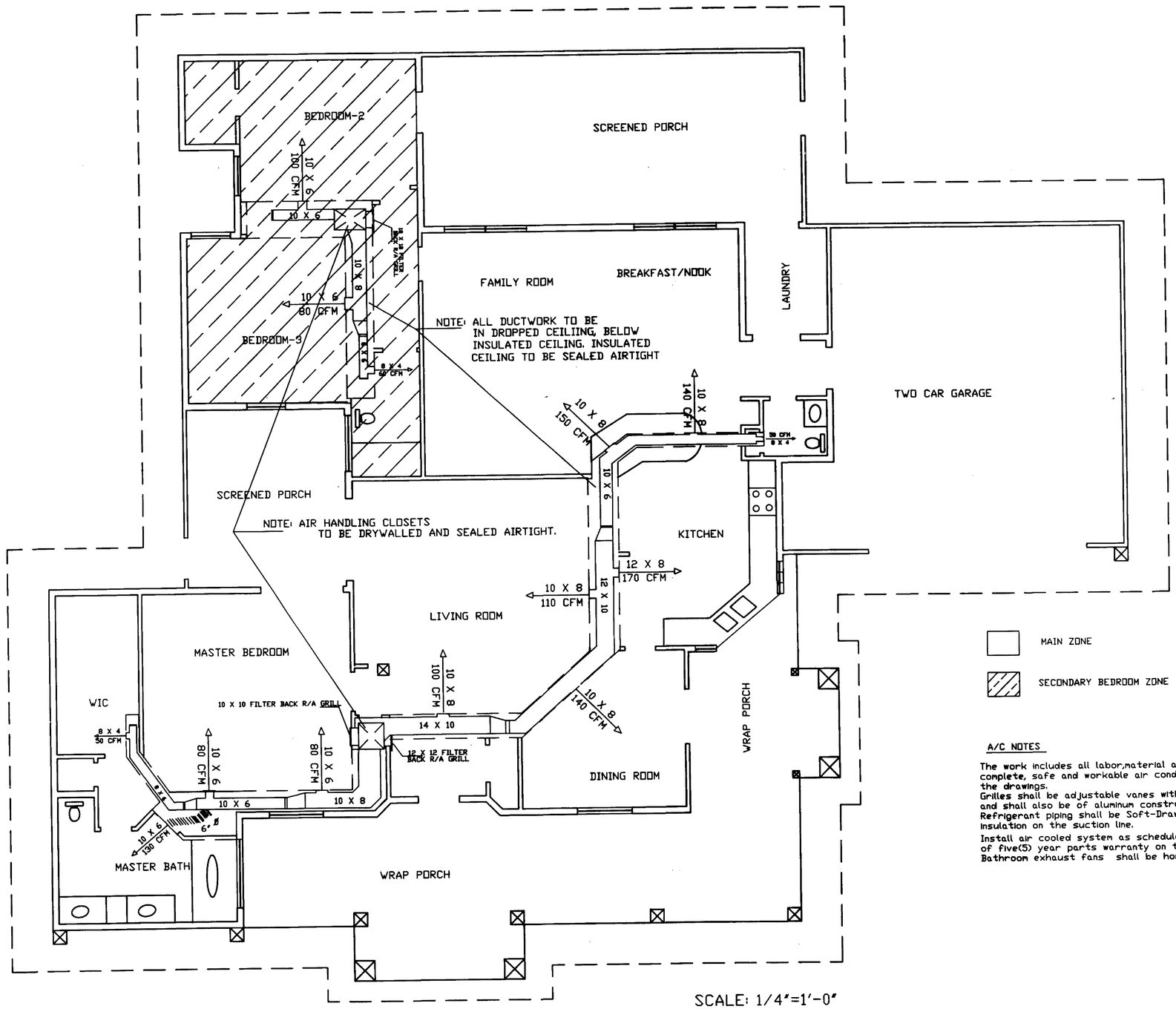
ELECTRICAL PLAN
1/4" = 1'-0"

- WIRE CONCEALED IN WALL OR CLG
- CEILING LIGHT
- WALL LIGHT
- SURFACE MOUNTED FLORESCENT LIGHT WALL MOUNT
- FLOOD LIGHT ASSEMBLY WALL MOUNT
- TRACK LIGHT
- EXHAUST FAN/LIGHT ASSEMBLY
- FL CEILING FAN/LIGHT ASSEMBLY
- F FAN ONLY
- DUPLEX RECEPTACLE
- QUADRUPLEX RECEPTACLE
- RANGE RECEPTACLE
- WP WATERPROOF RECEPTACLE
- GFI GROUND FAULT
- AH AIR HANDLER
- D SINK DISPOSAL
- DHW DOMESTIC HOT WATER HEATER
- DW DISHWASHER
- ED ELECTRIC GARAGE DOOR OPENER
- O OVEN (WALL)
- $ SINGLE POLE SWITCH
- $ 3 3 WAY
- $ 4 4 WAY
- $ F FANSWITCH ONLY
- $ L LIGHT SWITCH ONLY
- $ DM DIMMER SWITCH
- $ T TIMED SWITCH

FLORIDA ENERGY EFFICIENT RESIDENTIAL DESIGN
for FLORIDA SOLAR ENERGY CENTER 300 SR 401 CAPE CANAVERAL, FL 32920-4099
~~DESIGNED BY H. LINDAHL BURTON PO B 4261 GAINESVILLE, FL~~
DATE AUGUST 8, 1989 SCALE AS SPECIFIED DRW BY NLB

orientation independent

electrical



SCALE: 1/4"=1'-0"

MAIN ZONE

SECONDARY BEDROOM ZONE

A/C NOTES

The work includes all labor,material and equipment required to provide complete, safe and workable air conditioning and heating system outline in the drawings.
Grilles shall be adjustable vanes with dampers to control/regulate air flow and shall also be of aluminum construction with a baked white finish.
Refrigerant piping shall be Soft-Drawn copper tubing with 3/4" armaflex insulation on the suction line.
Install air cooled system as schedule on the drawings or equal with a minimun of five(5) year parts warranty on the compressor.
Bathroom exhaust fans shall be horizontal discharge with damper and a 30 minute timer

FLORIDA ENERGY EFFICIENT RESIDENTIAL DESIGN
For FLORIDA SOLAR ENERGY CENTER 300 SR 401 CAPE CANAVERAL, FL 32920-4099
DESIGNED BY N.LINDAHL BURTON P.O.BOX 4261 GAINESVILLE, FL 32613
DECEMBER 27,1989 SCALE AS SPECIFIED. HVAC BY FSEC (DESIGN BY ELVIS GUMBS)

ORIENTATION INDEPENDENT

COMFORT CONDITIONING SCHEDULE WITH GAS HEAT UNIT # 1

COOLING CAPACITY REQUIRED: 25,100 BTUH *
HEATING CAPACITY REQUIRED 26,200 BTUH *
AIR FLOW REQUIRED (CFM): 980 CFM *
MINIMUM RECOMMENDED SEER: 11.0
RECOMMENDED TYPE OF EQUIPMENT: GAS HYDRONIC
FURNACE (ALL COMBUSTION IS AT WATER HEATER)

SELECTED EQUIPMENT

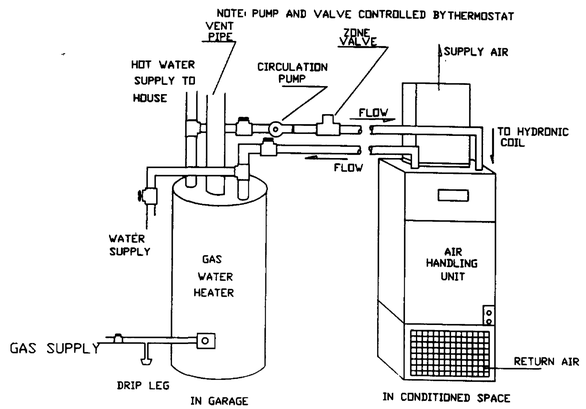
UNIT	MAKE	MODEL#	COOLING (BTUH)	SEER	HEATING (BTUH)	RECOVERY EFF.	CFM	TANK SIZE
CONDENSER								
DX COIL								
HYDRONIC HEAT WATER HEATER								
A.H.U.								

COMFORT CONDITIONING SCHEDULE WITH GAS HEAT UNIT # 2

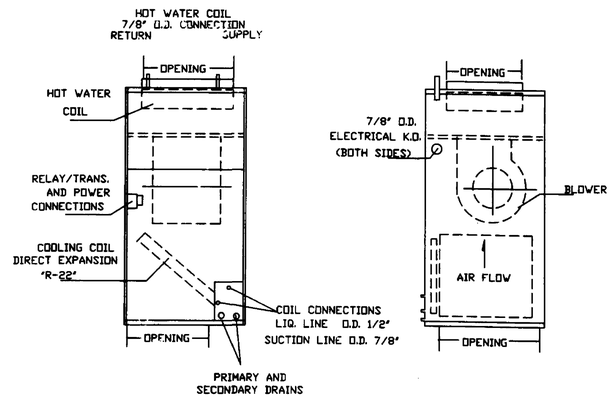
COOLING CAPACITY REQUIRED: 7,100 BTUH *
HEATING CAPACITY REQUIRED 7,900 BTUH *
AIR FLOW REQUIRED (CFM): 280 CFM *
MINIMUM RECOMMENDED SEER: 11.0
RECOMMENDED TYPE OF EQUIPMENT: GAS HYDRONIC
FURNACE (ALL COMBUSTION IS AT WATER HEATER)

SELECTED EQUIPMENT

UNIT	MAKE	MODEL#	COOLING (BTUH)	SEER	HEATING (BTUH)	RECOVERY EFF.	CFM	TANK SIZE
CONDENSER								
DX COIL								
HYDRONIC HEAT WATER HEATER								
A.H.U.								



INSTALL PER MANUFACTURER'S SPECIFICATION



DIRECT EXPANSION COOLING/HOT WATER HEATING FAN COIL UNIT DETAILED (N.T.S.)

COMFORT CONDITIONING SCHEDULE WITH ALL ELECTRICAL UTILITIES UNIT # 1

COOLING CAPACITY REQUIRED: 25,100 BTUH *
HEATING CAPACITY REQUIRED 26,200 BTUH *
AIR FLOW REQUIRED (CFM): 980 CFM *
MINIMUM RECOMMENDED SEER: 11.0
TYPE: HEAT PUMP MINIMUM
RECOMMENDED HSPF: 8.0

SELECTED EQUIPMENT

UNIT	MAKE	MODEL#	COOLING (BTUH)	SEER	HSPF	HEATING (BTUH)	AUX.HEAT STRIP	CFM
CONDENSER								
A.H.U.								

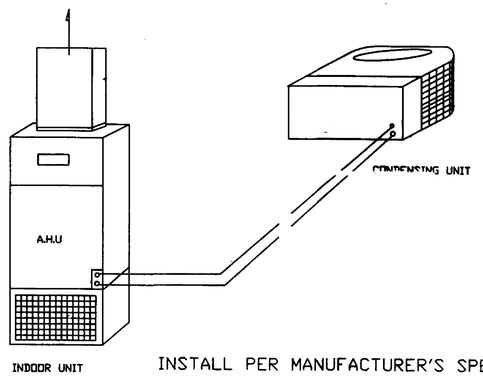
* Based on plans provided by; FSEC and quality construction. If plans have been altered, heating cooling and airflow requirements should be recalculated. The loads were calculated based on a peak summer load temperature of 95° F drybulb and 77° F wetbulb and a winter peak load temperature of 31° F using CARRIER E-20 II sizing computer program.

COMFORT CONDITIONING SCHEDULE WITH ALL ELECTRICAL UTILITIES UNIT # 2

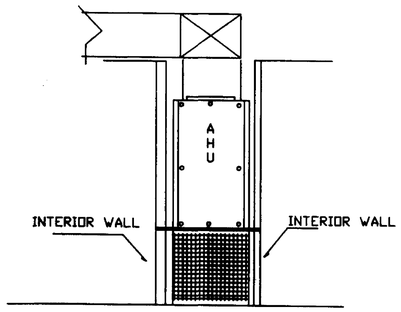
COOLING CAPACITY REQUIRED: 7,100 BTUH *
HEATING CAPACITY REQUIRED 7,900 BTUH *
AIR FLOW REQUIRED (CFM): 280 CFM *
MINIMUM RECOMMENDED SEER: 11.0
TYPE: HEAT PUMP MINIMUM
RECOMMENDED HSPF: 8.0

SELECTED EQUIPMENT

UNIT	MAKE	MODEL#	COOLING (BTUH)	SEER	HSPF	HEATING (BTUH)	AUX.HEAT STRIP	CFM
CONDENSER								
A.H.U.								



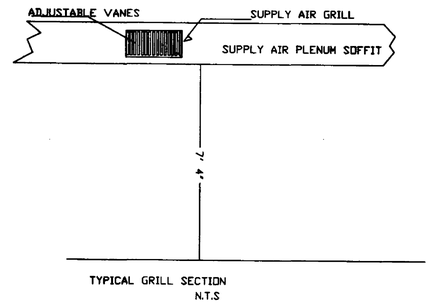
INSTALL PER MANUFACTURER'S SPECIFICATION



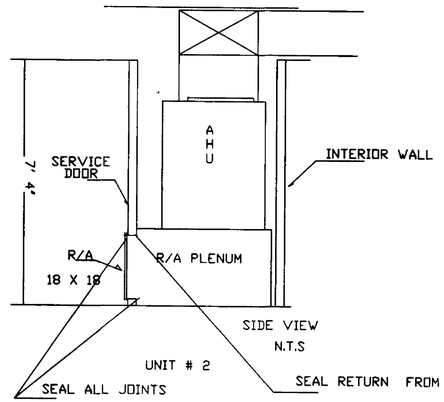
SERVICE ACCESS
N.T.S
UNIT #2

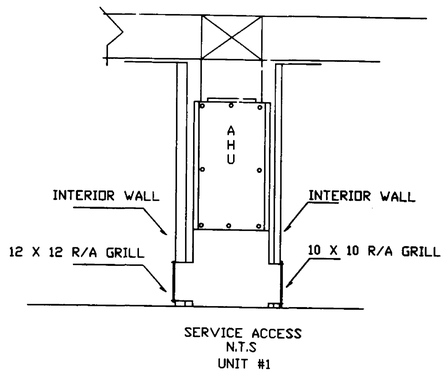
EXHAUST FAN SCHEDULE

	MAKE	SONES	CFM	VOLTS	Hz	PHASE
E.F.# 1 & 2		≤ 2	50	115	60	1



TYPICAL GRILL SECTION
N.T.S





SERVICE ACCESS
N.T.S
UNIT #1

These drawings and specifications are experimental in nature and the energy performance of the design has not been tested or evaluated in actual construction. Also note that these homes were designed for use only in the State of Florida and may be more appropriate for use in some climatic regions within the state than others.

The Florida Solar Energy Center, and the Designer, Architects, Judges, Plans Designers, and Artists involved in developing these drawings and specifications (hereinafter referred to "FSEC/Contractors") make no statement, representation, claim or warranty, whether express, implied or statutory with respect to these plans and specifications. **Any implied warranties of merchantability or fitness for a particular purpose are hereby disclaimed.**

FSEC/Contractors assume no liability for, and by its use Purchaser hereby releases FSEC/Contractors from all liability for, damages, losses or injury, whether direct, indirect, consequential or incidental, including, but not limited to personal injury, death and damage to property, whether or not due to or caused by FSEC/Contractors negligence, that may arise from or be connected with uses of these drawings and specifications. FSEC/Contractor does not authorize any person, whether employees or agents of FSEC/Contractor or otherwise, to make any representation or warranty or to assume any liability with respect to these drawings and specifications.

FLORIDA ENERGY EFFICIENT RESIDENTIAL DESIGN
For FLORIDA SOLAR ENERGY CENTER 300 SR 401 CAPE CANAVERAL, FL 32920-4099
DESIGNED BY NLINDAHL BURTON P.O.BOX 4261 GAINESVILLE, FL 32613
DECEMBER 27,1987 SCALE AS SPECIFIED. HVAC BY FSEC (DESIGN BY ELVIS GUMBS)

ORIENTATION INDEPENDENT

NOT TO SCALE

PAGE 16 HVAC Details